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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : 36-12 37TH ST. QUEENS, NY

ENVIRONMENTAL MANAGEMENT SERVICES

18-65B Steinway Street, Suite 7

Astoria, NY - 11105

Phone No: 3473965556

ORDER ID : Q1532

ATTENTION : Kosta Kamberis, PE

Laboratory Certification ID # 20012

Table Of Contents for Q1532

1) VOLATILES DATA 2
2) Signature Page 4
3) Shipping Document 5
3.1) Chain Of Custody 6
3.2) Lab Certificate 10
3.3) Internal COC 11
3.4) Air sample Pressure And Dilution Log Book 12
3.5) Storage Location 13
4) Case Narrative 15
5) Qualifier Page 24
6) QA Checklist 25
7) Chronicle 26
8) Hit Summary 27
9) Air Conversion Table 29
9.1) MDL 37
10) QC Data Summary For TO-15 45
10.1) Deuterated Monitoring Compound Summary 46
10.2) LCS/LCSD Summary 47
10.3) Duplicate Sample Summary 49
10.4) Method Blank Summary 51
10.5) GS/MS Tune Summary 52
10.6) Internal Standard Area and RT Summary 54
11) Sample Data 55
11.1) 1 56
11.2) 2 71
11.3) 3 87
11.4) 4 102
12) Calibration Data Summary 118
12.1) 12.1) Initial Calibration Data 119
12.2) 12.1.1) VL022525 119
12.3) Continued Calibration Data 402
12.3.1) VL042115.D 402
13) QC Sample Data 450
13.1) Tune Raw Data 451
13.2) Method Blank Data 453

13.3) LCS Data 460
14) Manual Integration 507
15) Analytical Runlogs 513
16) Standard Prep Logs 519
17) Canister Data 531
18) Not Reviewed Data 635

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

Cover Page

Order ID : Q1532

Project ID : 36-12 37th St. Queens, NY

Client : Environmental Management Services

Lab Sample Number	Client Sample Number
Q1532-01	1
Q1532-02	2
Q1532-03	3
Q1532-04	4

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

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:46 am, Mar 19, 2025

Date: 3/15/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

SHIPPING DOCUMENTS

CHEMTECH

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

CHEMTECH Project No. : Q1532 (1)

Client Contact Information	Bottle Order ID : **B2503003**	Courier :	1 of 4 COCs
Client ID : **ENVI46** Project ID : **Soil Waste Characterization**		Sampler Name(s) : Athanasios Mamberis	Analysis / Matrix
Customer Name : **Environmental Management Services**	Project Manager : **Kosta kamberis, pe**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **18-65B Steinway Street, Suite 7**	Phone Number : **3473965556**		
	Fax Number : **5163541999**	Batch Certified	
	Site Details: 36-12 37TH Street Queens, NY Outdoor Storefront		
City : **Astoria**			
State : **NY**	Analysis Turnaround Time		
Zip Code : **11105**	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		
1	3/6/25	10:49	14:40	30	[illegible]			-30	-4.7	10517	10303	6 L	25	VL041954.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 :

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 03/04/25	Canisters Received by:	Date/Time: 3-7-25 13:16	**B2503003 - 1**
Samples Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

CHEMTECH

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

CHEMTECH Project No. : Q1532 (2)

Client Contact Information	Bottle Order ID : **B2502012**	Courier :	2 of 4 COCs
Client ID : **ENVI46** Project ID : **Soil Waste Characterization**		Sampler Name(s) : Athanasios Kamberi	Analysis / Matrix
Customer Name : **Environmental Management Services**	Project Manager : **Kosta kamberis, pe**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **18-65B Steinway Street, Suite 7**	Phone Number : **3473965556**		
	Fax Number : **5163541999**		
	Site Details: 36-12 37th Street Queens, NY Stonehurst Bldg	Batch Certified	
City : **Astoria**			
State : **NY**	Analysis Turnaround Time		
Zip Code : **11105**	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		
2	3/6/25	10:38	14:42					-30	-2.3 -5	10784	10590	6 L	25	VL041796.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 :

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 02/13/25	Canisters Received by:		Date/Time: 3.7.25 13:16	B2502012 - 3
Samples Relinquished by:	Date/Time:	Received by:		Date/Time:	
Relinquished by:	Date/Time:	Received by:		Date/Time:	

CHEMTECH

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

CHEMTECH Project No. : Q1532 (3)

Client Contact Information	Bottle Order ID : **B2502012**	Courier :	3 of 4 COCs
Client ID : **ENVI46** Project ID : **Soil Waste Characterization**		Sampler Name(s) : Alexander Kamberis	Analysis / Matrix
Customer Name : **Environmental Management Services**	Project Manager : **Kosta kamberis, pe**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **18-65B Steinway Street, Suite 7**	Phone Number : **3473965556**		
	Fax Number : **5163541999**	Individual Certified	
	Site Details: 36-12 37th Streets Queens, NY supply room front		
City : **Astoria**			
State : **NY**	Analysis Turnaround Time		
Zip Code : **11105**	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		
3	3/6/25	10:53	14:42					-30	2 +4.3	10704	10279	6 L	25	VL041782.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** 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 :

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time: 02/13/25	Canisters Received by:		Date/Time: 3-7-25 13:16	B2502012 - 1
Samples Relinquished by:	Date/Time:	Received by:		Date/Time:	
Relinquished by:	Date/Time:	Received by:		Date/Time:	

CHEMTECH

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

CHEMTECH Project No. : Q1532(4)

Client Contact Information	Bottle Order ID : **B2502012**	Courier :	4 of 4 COCs
Client ID : **ENVI46** Project ID : **Soil Waste Characterization**		Sampler Name(s) : Athanasios Kamberis	Analysis / Matrix
Customer Name : **Environmental Management Services**	Project Manager : **Kosta kamberis, pe**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **18-65B Steinway Street, Suite 7**	Phone Number : **3473965556**		
	Fax Number : **5163541999**	Batch Certified	
	Site Details: 36-12 37th Street Queens, NY · Supply Room		
City : **Astoria**			
State : **NY**	Analysis Turnaround Time		
Zip Code : **11105**	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		
4	3/6/25	10:55	14:42					-30	-4.7 Sc	10714	10295	6 L	25	VL041782.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15): Sam

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 :

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: Sam	Date/Time 02/13/25	Canisters Received by:	Date/Time: 3-7-25 18:16
Samples Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2502012 - 2

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

Laboratory Certification

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

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

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

Laboratory: Chemtech
Location: 284 Sheffield Street, Mountainside, NJ 7092
~~NASA~~:
Title: Sample Custodian
Field Sample Seal No.: Q1532
Date Broken: 3/7/2025
Military Time Seal Broken: 13:16:00
Case No.: 36-12 37th St. Queens, NY
Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1532-01	1		
Q1532-02	2		
Q1532-03	3		
Q1532-04	4		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
3-10-25	10:01	Signature	Signature	
		Printed Name Assenaca Rene	Printed Name Samuel Yeshua	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

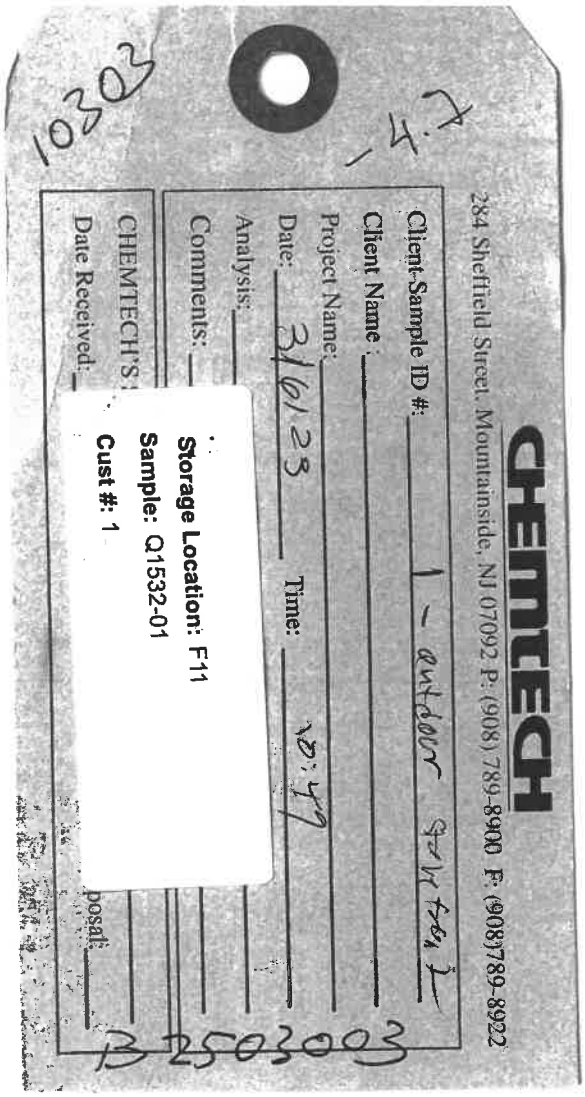
Distribution: White - Original (Sent With Report) *Yellow - Contractor Archive* *Pink - Sample Custodian - Interim Copy*

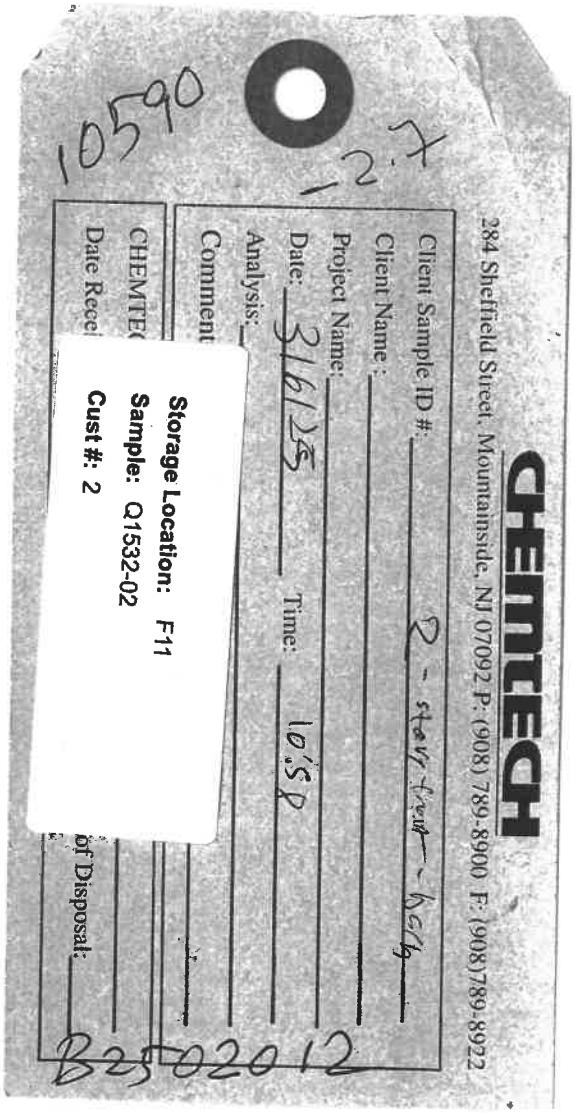
AIR SAMPLE PRESSURE & DILUTION LOGBOOK

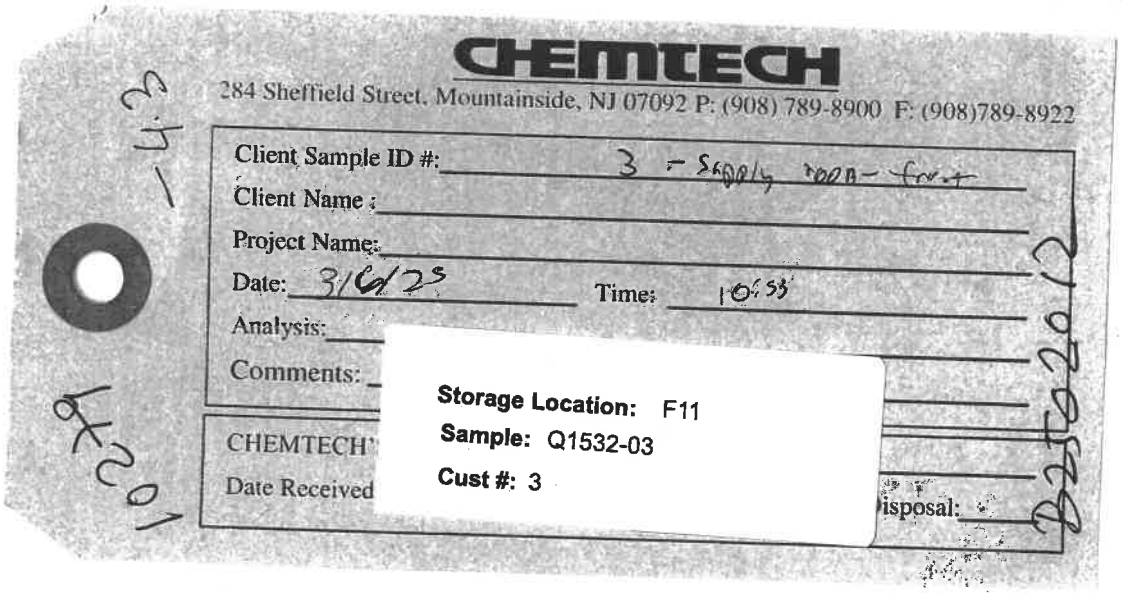
Analyst Signature: _____ Supervisor Signature: _____

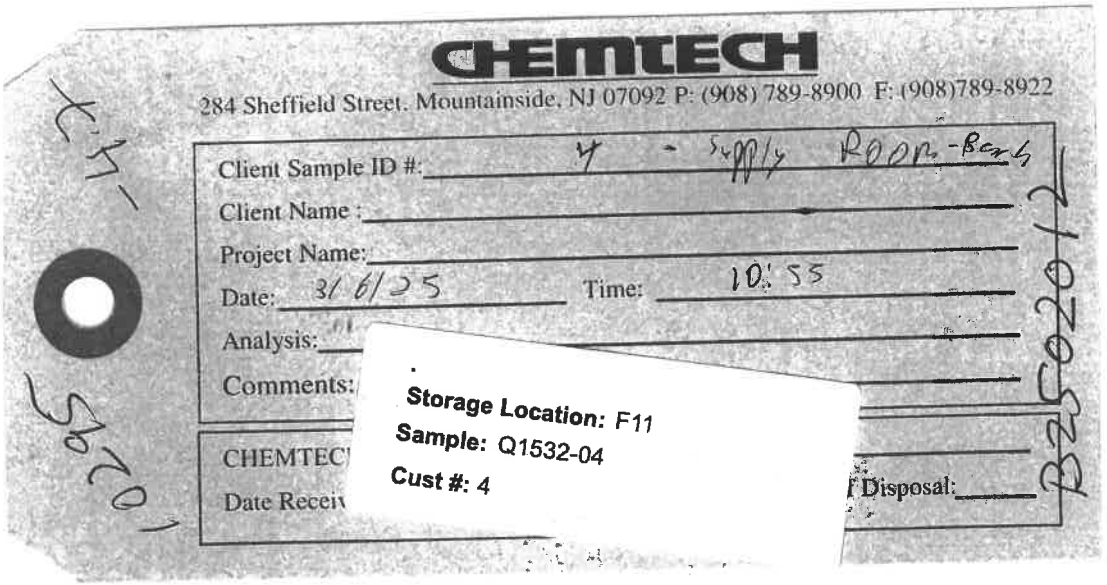
METHOD: TO-15 Pressure Gauge ID: AZ55971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
03/5/25	Q1483-04	10721	1.0		30		30	Sy
03/06/25	Q1506-01	10054	12.6	-4.3				Sy
"	Q1506-02	10329	12.2	-5.1				Sy
03/07/25	Q1532-01	10303	12.4	-4.7				
	Q1532-02	10590	13.4	-2.7				
	Q1532-03	10279	12.6	-4.3				
	Q1532-04	10295	12.4	-4.7				


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 1 - outdoor
Client Name :
Project Name:
Date: 3/6/25 Time: 10:49
Analysis:
Comments:
CHEMTECH'S
Date Received:
Storage Location: F11
Sample: Q1532-01
Cust #: 1
B2503003


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 2 - storefront - back
Client Name :
Project Name:
Date: 3/6/25 Time: 10:58
Analysis:
Comments:
CHEMTECH'S
Date Received:
Storage Location: F11
Sample: Q1532-02
Cust #: 2
B2502012


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 3 - Supply room - front
Client Name :
Project Name:
Date: 3/6/25 Time: 10:53
Analysis:
Comments:
CHEMTECH'S
Date Received
Storage Location: F11
Sample: Q1532-03
Cust #: 3


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 4 - Supply Room-Back
Client Name :
Project Name:
Date: 3/6/25 Time: 10:55
Analysis:
Comments:
Storage Location: F11
Sample: Q1532-04
Cust #: 4
CHEMTEC
Date Recei
Disposal:
B250202

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

CASE NARRATIVE

Environmental Management Services
Project Name: 36-12 37th St. Queens, NY
Project # N/A
Chemtech Project # Q1532
Test Name: TO-15

A. Number of Samples and Date of Receipt:
4 Air samples were received on 03/07/2025.

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

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

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

The RPD for {Q1532-01DUP} with File ID: VL042122.D met criteria except for 1,2,4-Trimethylbenzene[200%] due to difference in results of original and DUP.
The Blank Spike met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
The Sample #2,3 and 4 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 not QT review data is reported in the Miscellaneous.

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

The Manual Integrations are performed for the followings.

Manual Integration Report			
Sequence	VL022525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042041.D	m/p-Xylene	MMDadodda	3/6/2025 1:12:13 AM	SAM	3/6/2025 1:24:10 AM	Peak Integrated by Software incorrectly
VSTDICC002	VL042042.D	m/p-Xylene	SAM	2/26/2025 7:41:55 AM	MMDadoda	2/26/2025 1:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042043.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042043.D	1,4-Dioxane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042043.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042043.D	Benzyl Chloride	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042043.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042043.	Ethanol	SAM	2/26/202	MMDadoda	2/26/2025	Peak

	D			5 7:42:26 AM		1:45:09 PM	Integrated by Software incorrectly
VSTDICC001	VL042043.D	Heptane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042043.D	m/p-Xylene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042043.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software incorrectly

VSTDICC001	VL042043.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042044.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042044.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042044.D	1,2-Dichloropropane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042044.D	1,4-Dioxane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042044.	2-Hexanone	SA	2/26/202	MMDadod	2/26/202	Peak

	D		M	5 7:42:02 AM	a	5 1:45:11 PM	Integrated by Software incorrectly
VSTDICC0.5	VL042044.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042044.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042044.D	Dibromochloromethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042044.D	m/p-Xylene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042044.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042044.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software incorrectly

VSTDICC0.1	VL042045.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042045.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042045.D	Carbon Tetrachloride	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software

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

							incorrectly
VSTDICC0.1	VL042045.D	Tetrachloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042045.D	Trichloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042046.D	1,1,1-Trichloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042046.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042046.D	Carbon Tetrachloride	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042046.D	Tetrachloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042046.D	Trichloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL042047.D	m/p-Xylene	SAM	2/26/2025 7:42:16 AM	MMDadoda	2/26/2025 1:45:16 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042048.D	m/p-Xylene	SAM	2/26/2025 7:42:09 AM	MMDadoda	2/26/2025 1:45:17 PM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL031025	Instrument	MSVOA_I

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

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042115.D	1,1,2-Trichloroethane	SAM	3/11/2025 9:46:49 AM	MMDadoda	3/11/2025 5:06:19 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL042115.D	m/p-Xylene	SAM	3/11/2025 9:46:49 AM	MMDadoda	3/11/2025 5:06:19 PM	Peak Integrated by Software incorrectly
VL0310ABS01	VL042117.D	m/p-Xylene	SAM	3/11/2025 9:46:58 AM	MMDadoda	3/11/2025 5:06:24 PM	Peak Integrated by Software incorrectly
Q1532-01	VL042121.D	Benzene	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software incorrectly
Q1532-01	VL042121.D	Carbon Tetrachloride	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software incorrectly
Q1532-01	VL042121.D	Chlorodifluoromethane	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software incorrectly
Q1532-01	VL042121.D	m/p-Xylene	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software incorrectly
Q1532-01	VL042121.D	Propene	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software incorrectly
Q1532-01	VL042121.D	Tetrachloroethene	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software

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

							incorrectly
Q1532-01	VL042121.D	Toluene	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software incorrectly
Q1532-01DUP	VL042122.D	Carbon Tetrachloride	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software incorrectly

Q1532-01DUP	VL042122.D	Chlorodifluoromethane	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software incorrectly
Q1532-01DUP	VL042122.D	m/p-Xylene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software incorrectly
Q1532-01DUP	VL042122.D	Propene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software incorrectly
Q1532-01DUP	VL042122.D	Tetrachloroethene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software incorrectly
Q1532-01DUP	VL042122.D	Toluene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software incorrectly
Q1532-02	VL042123.D	Carbon Tetrachloride	SAM	3/11/2025 9:50:52 AM	MMDadoda	3/11/2025 5:06:28 PM	Peak Integrated by Software incorrectly
Q1532-02	VL042123.D	Chlorodifluoromethane	SAM	3/11/2025 9:50:52 AM	MMDadoda	3/11/2025 5:06:28 PM	Peak Integrated by Software incorrectly
Q1532-02	VL042123.D	tert-Butyl alcohol	SAM	3/11/2025 9:50:52 AM	MMDadoda	3/11/2025 5:06:28 PM	Peak Integrated by Software incorrectly
Q1532-02	VL042123.D	Tetrachloroethene	SAM	3/11/2025 9:50:52 AM	MMDadoda	3/11/2025 5:06:28 PM	Peak Integrated by Software incorrectly
Q1532-02	VL042123.D	Toluene	SAM	3/11/2025 9:50:52 AM	MMDadoda	3/11/2025 5:06:28 PM	Peak Integrated by Software

							incorrectly
Q1532-03	VL042125.D	Carbon Tetrachloride	SAM	3/11/2025 9:47:10 AM	MMDadoda	3/11/2025 5:06:33 PM	Peak Integrated by Software incorrectly
Q1532-03	VL042125.D	Chlorodifluoromethane	SAM	3/11/2025 9:47:10 AM	MMDadoda	3/11/2025 5:06:33 PM	Peak Integrated by Software incorrectly
Q1532-03	VL042125.D	Propene	SAM	3/11/2025 9:47:10 AM	MMDadoda	3/11/2025 5:06:33 PM	Peak Integrated by Software incorrectly
Q1532-03	VL042125.D	tert-Butyl alcohol	SAM	3/11/2025 9:47:10 AM	MMDadoda	3/11/2025 5:06:33 PM	Peak Integrated by Software incorrectly
Q1532-03	VL042125.D	Tetrachloroethene	SAM	3/11/2025 9:47:10 AM	MMDadoda	3/11/2025 5:06:33 PM	Peak Integrated by Software incorrectly
Q1532-04	VL042127.D	Carbon Tetrachloride	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 PM	Peak Integrated by Software incorrectly
Q1532-04	VL042127.D	Chlorodifluoromethane	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 PM	Peak Integrated by Software incorrectly
Q1532-04	VL042127.D	Hexane	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 PM	Peak Integrated by Software incorrectly
Q1532-04	VL042127.D	m/p-Xylene	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 PM	Peak Integrated by Software incorrectly
Q1532-04	VL042127.D	Propene	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 PM	Peak Integrated by Software incorrectly
Q1532-04	VL042127.D	Tetrachloroethene	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 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.

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

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

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 11:47 am, Mar 19, 2025

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1532

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

QA Review Signature: SOHIL JODHANI **Date:** 03/15/2025

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

LAB CHRONICLE

OrderID:	Q1532	**OrderDate:**	3/10/2025 8:40:33 AM
Client:	Environmental Management Services	**Project:**	36-12 37th St. Queens, NY
Contact:	Kosta Kamberis, PE	**Location:**	F11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1532-01	**1**	**Air**			**03/06/25**			**03/07/25**
			TO-15	TO-15			03/10/25	
Q1532-02	**2**	**Air**			**03/06/25**			**03/07/25**
			TO-15	TO-15			03/10/25	
Q1532-03	**3**	**Air**			**03/06/25**			**03/07/25**
			TO-15	TO-15			03/10/25	
Q1532-04	**4**	**Air**			**03/06/25**			**03/07/25**
			TO-15	TO-15			03/10/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1532

Client: Environmental Management Services

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**1**							
Q1532-01	1	Air	Dichlorodifluoromethane	2.52		1.04	2.47	ug/m3
Q1532-01	1	Air	Chloromethane	1.09		0.21	1.03	ug/m3
Q1532-01	1	Air	Trichlorofluoromethane	1.46	J	0.90	2.81	ug/m3
Q1532-01	1	Air	Acetone	17.1		0.57	1.19	ug/m3
Q1532-01	1	Air	Methylene Chloride	5.91		0.66	1.74	ug/m3
Q1532-01	1	Air	2-Butanone	1.92		0.35	1.47	ug/m3
Q1532-01	1	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1532-01	1	Air	Benzene	0.42	J	0.29	1.60	ug/m3
Q1532-01	1	Air	Toluene	1.51	J	0.41	1.88	ug/m3
Q1532-01	1	Air	Tetrachloroethene	0.81		0.14	0.20	ug/m3
Q1532-01	1	Air	m/p-Xylene	1.48	J	0.91	4.34	ug/m3
			Total Voc :	34.7				
			Total Concentration:	34.7				
Client ID:	**2**							
Q1532-02	2	Air	Dichlorodifluoromethane	2.52		1.04	2.47	ug/m3
Q1532-02	2	Air	Chloromethane	2.07		0.21	1.03	ug/m3
Q1532-02	2	Air	Trichlorofluoromethane	1.35	J	0.90	2.81	ug/m3
Q1532-02	2	Air	Acetone	18.3		0.57	1.19	ug/m3
Q1532-02	2	Air	Methylene Chloride	4.17		0.66	1.74	ug/m3
Q1532-02	2	Air	2-Butanone	2.89		0.35	1.47	ug/m3
Q1532-02	2	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1532-02	2	Air	Chloroform	0.49	J	0.39	2.44	ug/m3
Q1532-02	2	Air	Benzene	0.45	J	0.29	1.60	ug/m3
Q1532-02	2	Air	Toluene	1.81	J	0.41	1.88	ug/m3
Q1532-02	2	Air	Tetrachloroethene	0.27		0.14	0.20	ug/m3
Q1532-02	2	Air	m/p-Xylene	1.35	J	0.91	4.34	ug/m3
			Total Voc :	36.2				
			Total Concentration:	36.2				
Client ID:	**3**							
Q1532-03	3	Air	Dichlorodifluoromethane	2.52		1.04	2.47	ug/m3
Q1532-03	3	Air	Chloromethane	1.20		0.21	1.03	ug/m3
Q1532-03	3	Air	Trichlorofluoromethane	1.40	J	0.90	2.81	ug/m3
Q1532-03	3	Air	Acetone	15.4		0.57	1.19	ug/m3
Q1532-03	3	Air	Methylene Chloride	5.21		0.66	1.74	ug/m3
Q1532-03	3	Air	2-Butanone	2.04		0.35	1.47	ug/m3
Q1532-03	3	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3

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

Hit Summary Sheet
SW-846

SDG No.: Q1532

Client: Environmental Management Services

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1532-03	3	Air	Benzene	0.45	J	0.29	1.60	ug/m3
Q1532-03	3	Air	Toluene	1.43	J	0.41	1.88	ug/m3
Q1532-03	3	Air	Tetrachloroethene	0.47		0.14	0.20	ug/m3
Q1532-03	3	Air	m/p-Xylene	1.17	J	0.91	4.34	ug/m3
			Total Voc :	31.8				
			Total Concentration:	31.8				
Client ID:	**4**							
Q1532-04	4	Air	Dichlorodifluoromethane	2.52		1.04	2.47	ug/m3
Q1532-04	4	Air	Chloromethane	1.18		0.21	1.03	ug/m3
Q1532-04	4	Air	Trichlorofluoromethane	1.46	J	0.90	2.81	ug/m3
Q1532-04	4	Air	Acetone	13.8		0.57	1.19	ug/m3
Q1532-04	4	Air	Methylene Chloride	11.8		0.66	1.74	ug/m3
Q1532-04	4	Air	2-Butanone	1.62		0.35	1.47	ug/m3
Q1532-04	4	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1532-04	4	Air	Benzene	0.48	J	0.29	1.60	ug/m3
Q1532-04	4	Air	Toluene	1.66	J	0.41	1.88	ug/m3
Q1532-04	4	Air	Tetrachloroethene	0.41		0.14	0.20	ug/m3
Q1532-04	4	Air	m/p-Xylene	1.35	J	0.91	4.34	ug/m3
Q1532-04	4	Air	Hexane	1.52	J	0.39	1.76	ug/m3
			Total Voc :	38.2				
			Total Concentration:	38.2				

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

Project : 36-12 37th St. Queens, NY

Sampling Date : 03/06/25

Field Id Number : 1

Analysis Date : 03/10/25

Laboratory Id Number : Q1532-01

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	0.51		2.52		
Chloromethane	74-87-3	50.49	0.53		1.09		
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	0.26	J	1.46		
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	7.2		17.1		
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	1.7		5.91		
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	0.65		1.92		
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	0.13	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	0.4	J	1.51		
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 : 36-12 37th St. Queens, NY

Sampling Date : 03/06/25

Field Id Number : 1

Analysis Date : 03/10/25

Laboratory Id Number : Q1532-01

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	0.12		0.81		
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	0.5	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		

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

Project : 36-12 37th St. Queens, NY

Sampling Date : 03/06/25

Field Id Number : 2

Analysis Date : 03/10/25

Laboratory Id Number : Q1532-02

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	0.51		2.52		
Chloromethane	74-87-3	50.49	1		2.07		
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	0.24	J	1.35		
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	7.7		18.3		
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	1.2		4.17		
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	0.98		2.89		
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	0.1	J	0.49		
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	0.14	J	0.45		
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	0.48	J	1.81		
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 : 36-12 37th St. Queens, NY

Sampling Date : 03/06/25

Field Id Number : 2

Analysis Date : 03/10/25

Laboratory Id Number : Q1532-02

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	0.04		0.27		
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	0.31	J	1.35		
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	0.5	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		

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

Project : 36-12 37th St. Queens, NY

Sampling Date : 03/06/25

Field Id Number : 3

Analysis Date : 03/10/25

Laboratory Id Number : Q1532-03

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	0.51		2.52		
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	6.5		15.4		
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	1.5		5.21		
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	0.69		2.04		
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	0.14	J	0.45		
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	0.38	J	1.43		
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 : 36-12 37th St. Queens, NY

Sampling Date : 03/06/25

Field Id Number : 3

Analysis Date : 03/10/25

Laboratory Id Number : Q1532-03

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	0.07		0.47		
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	0.27	J	1.17		
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	0.5	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		

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

Project : 36-12 37th St. Queens, NY

Sampling Date : 03/06/25

Field Id Number : 4

Analysis Date : 03/10/25

Laboratory Id Number : Q1532-04

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	0.51		2.52		
Chloromethane	74-87-3	50.49	0.57		1.18		
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	0.26	J	1.46		
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	5.8		13.8		
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	3.4		11.8		
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	0.55		1.62		
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	0.15	J	0.48		
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	0.44	J	1.66		
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 : 36-12 37th St. Queens, NY

Sampling Date : 03/06/25

Field Id Number : 4

Analysis Date : 03/10/25

Laboratory Id Number : Q1532-04

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	0.06		0.41		
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	0.31	J	1.35		
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	0.43	J	1.52		
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
02232023T13:12:00	VL040329.D	0.51	04102023T17:39:00	VL040349.D	0.633	04122023T23:23:00	VL040559.D

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

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

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

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

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

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1532

Client: Environmental Management Services

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1532-01	1	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
Q1532-01DUP	1DUP	1-Bromo-4-Fluorobenzene	10	10.2	101	65	135
Q1532-02	2	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
Q1532-03	3	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135
Q1532-04	4	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135
VL0310ABL01	VL0310ABL01	1-Bromo-4-Fluorobenzene	10	9.90	99	65	135
VL0310ABS01	VL0310ABS01	1-Bromo-4-Fluorobenzene	10	10.6	106	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.: Q1532

Client: Environmental Management Services

Analytical Method: SWTO-15 **Datafile :** VL042117.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0310ABS01	Dichlorodifluoromethane	10	10.2	ppbv	102			70	130	
	Chloromethane	10	10.1	ppbv	101			70	130	
	Vinyl Chloride	10	10.4	ppbv	104			70	130	
	Bromomethane	10	10.4	ppbv	104			70	130	
	Chloroethane	10	10.4	ppbv	104			70	130	
	Tetrahydrofuran	10	8.70	ppbv	87			70	130	
	Trichlorofluoromethane	10	10.7	ppbv	107			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.60	ppbv	96			70	130	
	Dichlorotetrafluoethane	10	10.2	ppbv	102			70	130	
	tert-Butyl Alcohol	10	8.50	ppbv	85			70	130	
	Heptane	10	8.10	ppbv	81			70	130	
	1,1-Dichloroethene	10	9.40	ppbv	94			70	130	
	Acetone	10	9.80	ppbv	98			70	130	
	Carbon disulfide	10	9.70	ppbv	97			70	130	
	Methyl tert-butyl Ether	10	8.50	ppbv	85			70	130	
	Methylene Chloride	10	9.90	ppbv	99			70	130	
	trans-1,2-Dichloroethene	10	9.90	ppbv	99			70	130	
	1,1-Dichloroethane	10	10.1	ppbv	101			70	130	
	Cyclohexane	10	7.80	ppbv	78			70	130	
	2-Butanone	10	9.10	ppbv	91			70	130	
	Carbon Tetrachloride	10	9.50	ppbv	95			70	130	
	cis-1,2-Dichloroethene	10	7.90	ppbv	79			70	130	
	Chloroform	10	8.50	ppbv	85			70	130	
	1,1,1-Trichloroethane	10	7.90	ppbv	79			70	130	
	2,2,4-Trimethylpentane	10	9.10	ppbv	91			70	130	
	Benzene	10	8.90	ppbv	89			70	130	
	1,2-Dichloroethane	10	8.70	ppbv	87			70	130	
	Trichloroethene	10	8.40	ppbv	84			70	130	
	1,2-Dichloropropane	10	8.90	ppbv	89			70	130	
	Bromodichloromethane	10	9.10	ppbv	91			70	130	
	4-Methyl-2-Pentanone	10	9.60	ppbv	96			70	130	
	Toluene	10	8.50	ppbv	85			70	130	
	t-1,3-Dichloropropene	10	7.60	ppbv	76			70	130	
	cis-1,3-Dichloropropene	10	8.10	ppbv	81			70	130	
	1,1,2-Trichloroethane	10	8.90	ppbv	89			70	130	
	Dibromochloromethane	10	9.00	ppbv	90			70	130	
	1,2-Dibromoethane	10	8.70	ppbv	87			70	130	
	Tetrachloroethene	10	8.40	ppbv	84			70	130	
	Chlorobenzene	10	9.30	ppbv	93			70	130	
	Ethyl Benzene	10	8.60	ppbv	86			70	130	
	m/p-Xylene	20	18.0	ppbv	90			70	130	
	o-Xylene	10	9.10	ppbv	91			70	130	
	Styrene	10	8.50	ppbv	85			70	130	
	Bromoform	10	9.20	ppbv	92			70	130	
	1,1,2,2-Tetrachloroethane	10	9.50	ppbv	95			70	130	
	2-Chlorotoluene	10	8.60	ppbv	86			70	130	
	1,3,5-Trimethylbenzene	10	8.80	ppbv	88			70	130	
	1,2,4-Trimethylbenzene	10	8.70	ppbv	87			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.: Q1532

Client: Environmental Management Services

Analytical Method: SWTO-15 **Datafile :** VL042117.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0310ABS01	1,3-Dichlorobenzene	10	9.00	ppbv	90			70	130	
	1,4-Dichlorobenzene	10	9.00	ppbv	90			70	130	
	1,2-Dichlorobenzene	10	9.30	ppbv	93			70	130	
	1,2,4-Trichlorobenzene	10	8.90	ppbv	89			70	130	
	Hexachloro-1,3-butadiene	10	8.20	ppbv	82			70	130	
	Naphthalene	10	11.2	ppbv	112			70	130	
	1,3-Butadiene	10	10.1	ppbv	101			70	130	
	4-Ethyltoluene	10	8.90	ppbv	89			70	130	
	Hexane	10	8.50	ppbv	85			70	130	
	Allyl Chloride	10	9.60	ppbv	96			70	130	
	1,4-Dioxane	10	8.30	ppbv	83			70	130	
	Methyl methacrylate	10	8.40	ppbv	84			70	130	

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

Duplicate Sample Summary

Lab Sample Id :	Q1532-01DUP		Q1532-01	
Client Id :	1DUP		1	
DF :	1		1	
Datafile :	VL042122.D		VL042121.D	
Anal Date & Time :	03/10/2025	13:32	03/10/2025	12:59

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	0.05	0	200 *
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	0.68	0.65	4.5
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	7	7.2	2.8
Allyl Chloride	0	0	0
Benzene	0.13	0.13	0
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.08	0.07	13.3

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

Duplicate Sample Summary

Lab Sample Id :	Q1532-01DUP		Q1532-01	
Client Id :	1DUP		1	
DF :	1		1	
Datafile :	VL042122.D		VL042121.D	
Anal Date & Time :	03/10/2025	13:32	03/10/2025	12:59

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.55	0.53	3.7
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.5	0.51	2
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0	0	0
m/p-Xylene	0.34	0.34	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	1.5	1.7	12.5
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.14	0.12	15.4
Tetrahydrofuran	0	0	0
Toluene	0.39	0.4	2.5
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.27	0.26	3.8
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.

VL0310ABL01

Lab Name: CHEMTECH Contract: ENVI46

Lab Code: CHEM Case No.: Q1532 SAS No.: Q1532 SDG NO.: Q1532

Lab File ID: VL042116.D Lab Sample ID: VL0310ABL01

Date Analyzed: 03/10/2025 Time Analyzed: 09:54

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

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0310ABS01	VL0310ABS01	VL042117.D	03/10/2025
1	Q1532-01	VL042121.D	03/10/2025
1DUP	Q1532-01DUP	VL042122.D	03/10/2025
2	Q1532-02	VL042123.D	03/10/2025
3	Q1532-03	VL042125.D	03/10/2025
4	Q1532-04	VL042127.D	03/10/2025

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: ENVI46

Lab Code: CHEM Case No.: Q1532 SAS No.: Q1532 SDG NO.: Q1532

Lab File ID: VL042040.D BFB Injection Date: 02/25/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:56

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	22.6
75	30.0 - 66.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	63.3
175	4.0 - 9.0% of mass 174	4.9 (7.8) 1
176	93.0 - 101.0% of mass 174	60.9 (96.1) 1
177	5.0 - 9.0% of mass 176	3.4 (5.7) 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	VL042041.D	02/25/2025	08:56
VSTDICC002	VSTDICC002	VL042042.D	02/25/2025	09:29
VSTDICC001	VSTDICC001	VL042043.D	02/25/2025	10:00
VSTDICC0.5	VSTDICC0.5	VL042044.D	02/25/2025	10:31
VSTDICC0.1	VSTDICC0.1	VL042045.D	02/25/2025	11:03
VSTDICC0.03	VSTDICC0.03	VL042046.D	02/25/2025	11:34
VSTDICC015	VSTDICC015	VL042047.D	02/25/2025	12:07

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: ENVI46

Lab Code: CHEM Case No.: Q1532 SAS No.: Q1532 SDG NO.: Q1532

Lab File ID: VL042114.D BFB Injection Date: 03/10/2025

Instrument ID: MSVOA_L BFB Injection Time: 08:22

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	22.6
75	30.0 - 66.0% of mass 95	53.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	63.1
175	4.0 - 9.0% of mass 174	4.8 (7.6) 1
176	93.0 - 101.0% of mass 174	60.4 (95.6) 1
177	5.0 - 9.0% of mass 176	3.9 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042115.D	03/10/2025	09:08
VL0310ABL01	VL0310ABL01	VL042116.D	03/10/2025	09:54
VL0310ABS01	VL0310ABS01	VL042117.D	03/10/2025	10:52
1	Q1532-01	VL042121.D	03/10/2025	12:59
1DUP	Q1532-01DUP	VL042122.D	03/10/2025	13:32
2	Q1532-02	VL042123.D	03/10/2025	14:06
3	Q1532-03	VL042125.D	03/10/2025	15:10
4	Q1532-04	VL042127.D	03/10/2025	16:15

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: ENVI46

Lab Code: CHEM Case No.: Q1532 SAS No.: Q1532 SDG NO.: Q1532

Lab File ID: VL042115.D Date Analyzed: 03/10/2025

Instrument ID: MSVOA_L Time Analyzed: 09:08

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	165085	2.80	392891	3.98	342991	8.90
UPPER LIMIT	231119	3.13	550047	4.31	480187	9.23
LOWER LIMIT	99051	2.47	235735	3.65	205795	8.57
EPA SAMPLE NO.						
1	161577	2.80	375440	3.98	321830	8.90
1DUP	163759	2.80	380274	3.98	322839	8.90
2	166689	2.80	387215	3.98	330250	8.90
3	165184	2.80	383076	3.98	325600	8.90
4	162703	2.80	379717	3.98	323671	8.90
VL0310ABL01	162394	2.80	386417	3.97	325291	8.90
VL0310ABS01	168824	2.80	400351	3.98	350466	8.90

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

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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	1	SDG No.:	Q1532
Lab Sample ID:	Q1532-01	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
VL042121.D	1		03/10/25 12:59	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.51	2.52		1.04	2.47	ug/m3
74-87-3	Chloromethane	0.53	1.09		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	0.26	1.46	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	7.20	17.1		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	1.70	5.91		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	0.65	1.92		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	0.13	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	0.40	1.51	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:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	1	SDG No.:	Q1532
Lab Sample ID:	Q1532-01	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
VL042121.D	1		03/10/25 12:59	VL031025

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	0.12	0.81		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	0.50	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	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	162000		2.8			
540-36-3	1,4-Difluorobenzene	375000		3.978			
3114-55-4	Chlorobenzene-d5	322000		8.901			

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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	1	SDG No.:	Q1532
Lab Sample ID:	Q1532-01	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
VL042121.D	1		03/10/25 12:59	VL031025

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\VL031025\
Data File : VL042121.D
Acq On : 10 Mar 2025 12:59
Operator : SY/MD
Sample : Q1532-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:23:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	161577	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	375440	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	321830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	253211	10.227	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	8597	0.512	ppbv	98
3) Chlorodifluoromethane	1.482	51	5866m	0.250	ppbv	
4) Chloromethane	1.538	50	3305	0.532	ppbv	94
9) Propene	1.492	41	7521m	0.786	ppbv	
11) Trichlorofluoromethane	1.887	101	4307	0.256	ppbv	100
13) Ethanol	1.728	45	28335	46.657	ppbv	99
15) Acetone	1.845	43	102118	7.157	ppbv	100
19) Isopropyl Alcohol	1.894	45	61180	7.464	ppbv	98
20) Methylene Chloride	2.072	84	8920	1.653	ppbv	89
25) Ethyl Acetate	2.855	43	14868	0.260	ppbv #	96
34) 2-Butanone	2.573	43	19052	0.651	ppbv	97
35) Carbon Tetrachloride	3.777	117	1796m	0.069	ppbv	
36) Benzene	3.680	78	4940m	0.126	ppbv	
52) Tetrachloroethene	8.244	164	1656m	0.123	ppbv	
53) Toluene	6.965	91	17418m	0.397	ppbv	
59) m/p-Xylene	9.555	91	16147m	0.342	ppbv	

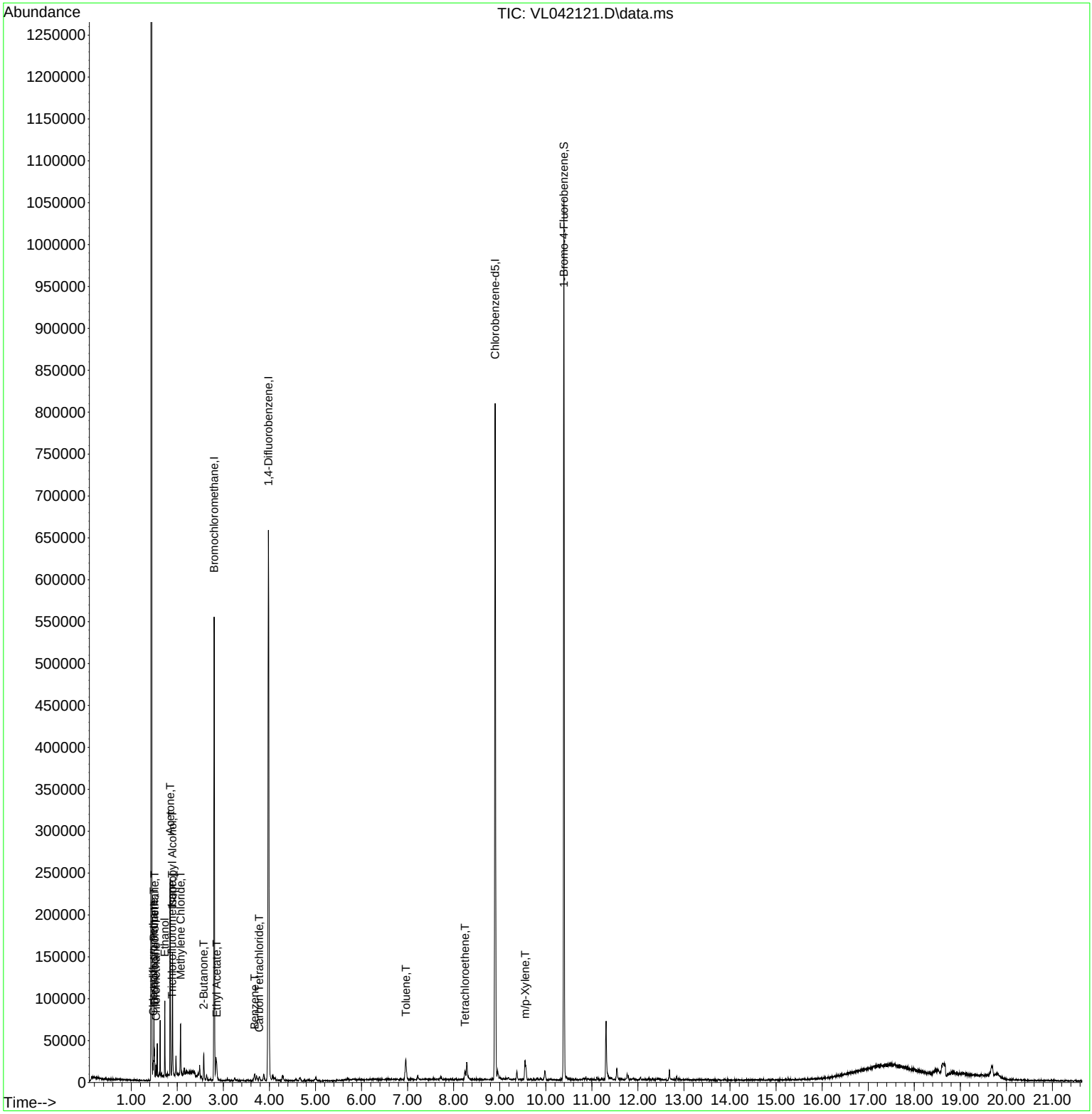
(#) = qualifier out of range (m) = manual integration (+) = signals summed

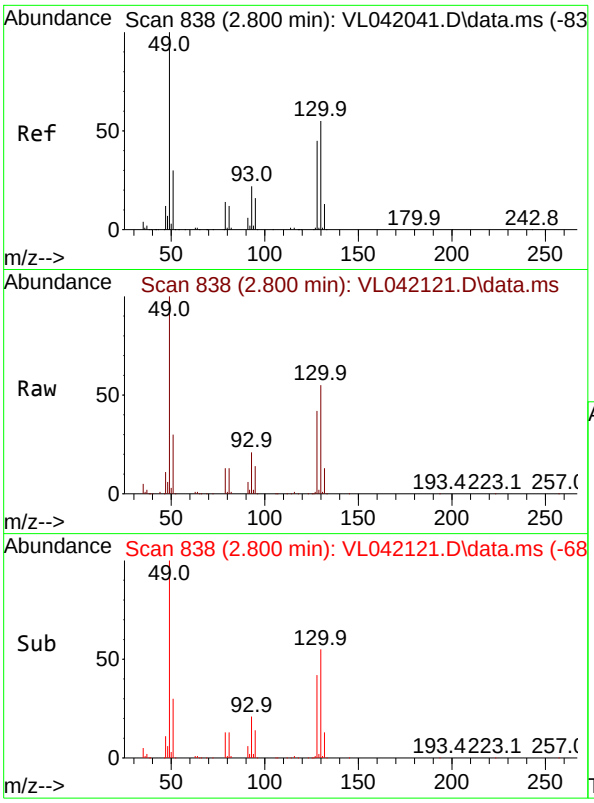
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042121.D
Acq On : 10 Mar 2025 12:59
Operator : SY/MD
Sample : Q1532-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:23:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

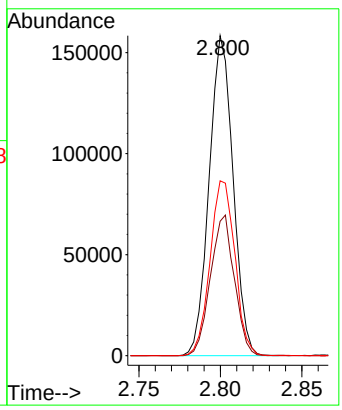




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 49 Resp: 16157

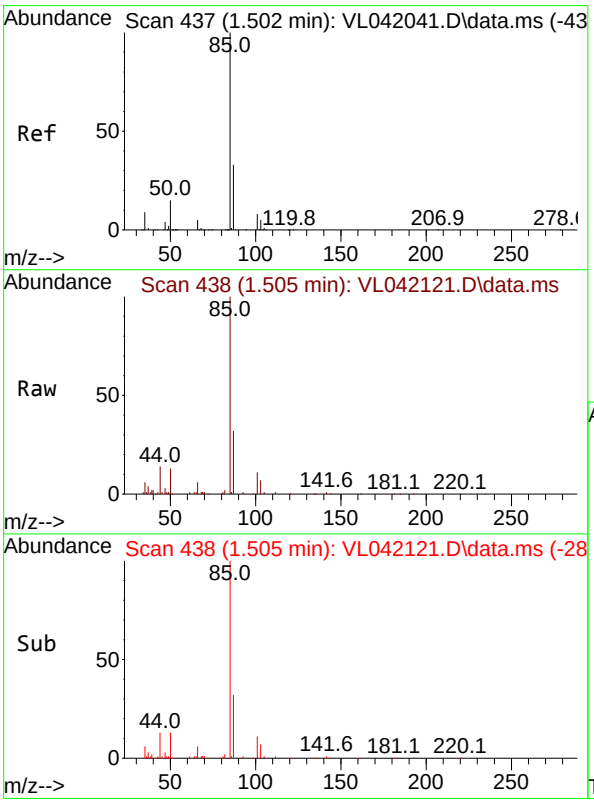
Ion	Ratio	Lower	Upper
49	100		
128	43.9	21.6	64.8
130	56.8	27.8	83.4



Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations
APPROVED

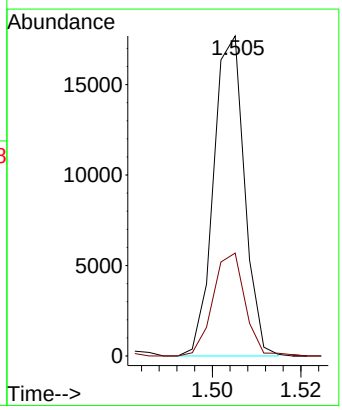
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

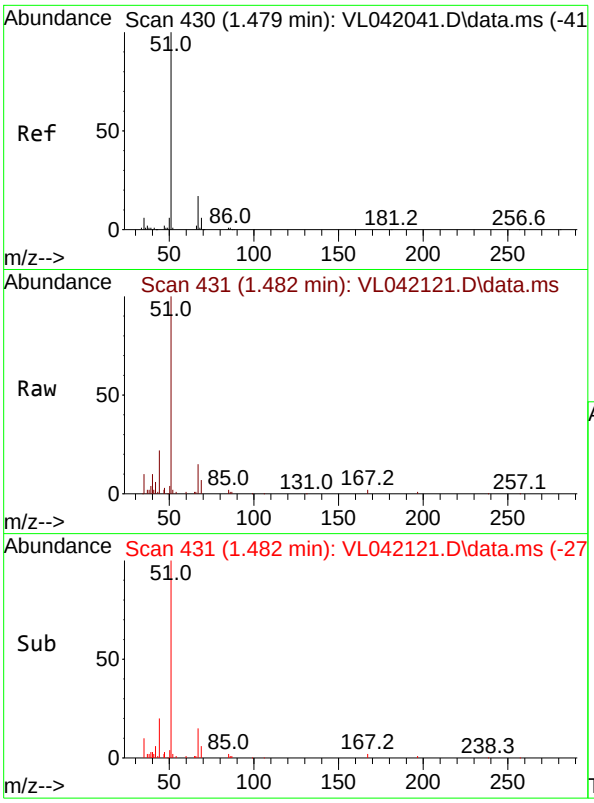


#2
Dichlorodifluoromethane
Concen: 0.512 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 85 Resp: 8597

Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.4	39.6

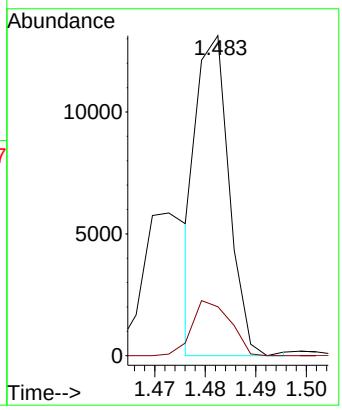




#3
Chlorodifluoromethane
Concen: 0.250 ppbv m
RT: 1.482 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 51 Resp: 586

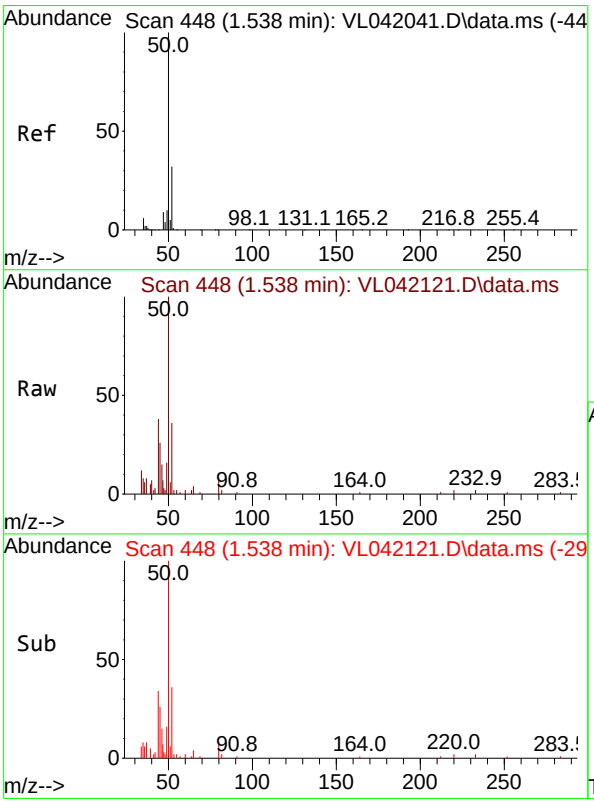
Ion	Ratio	Lower	Upper
51	100		
67	1.4	13.7	20.5#



Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations
APPROVED

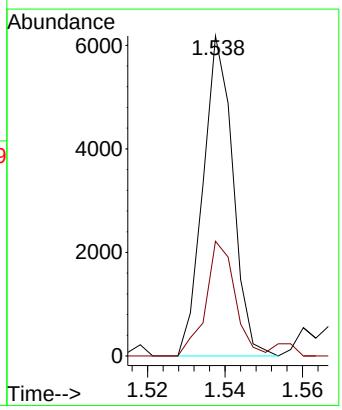
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

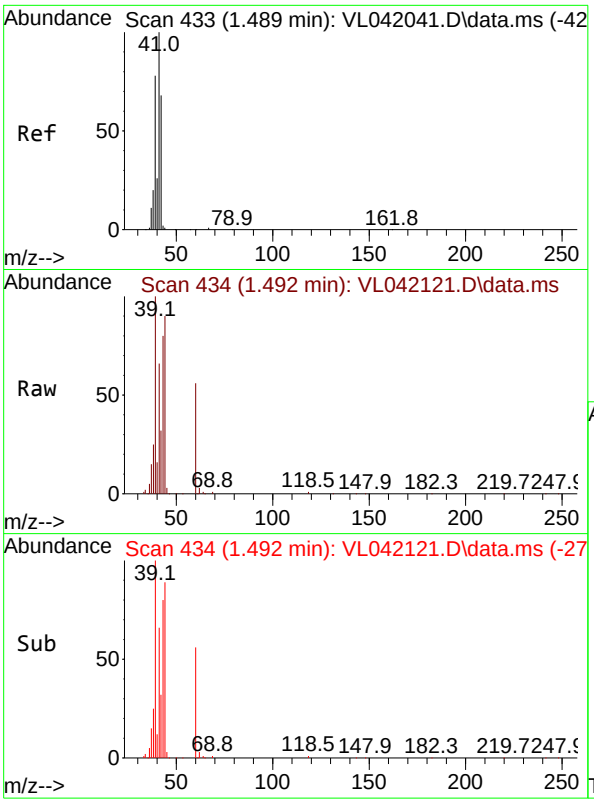


#4
Chloromethane
Concen: 0.532 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 50 Resp: 3305

Ion	Ratio	Lower	Upper
50	100		
52	34.8	25.4	38.0

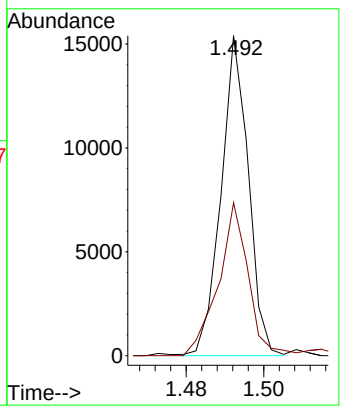




#9
Propene
Concen: 0.786 ppbv m
RT: 1.492 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 41 Resp: 752

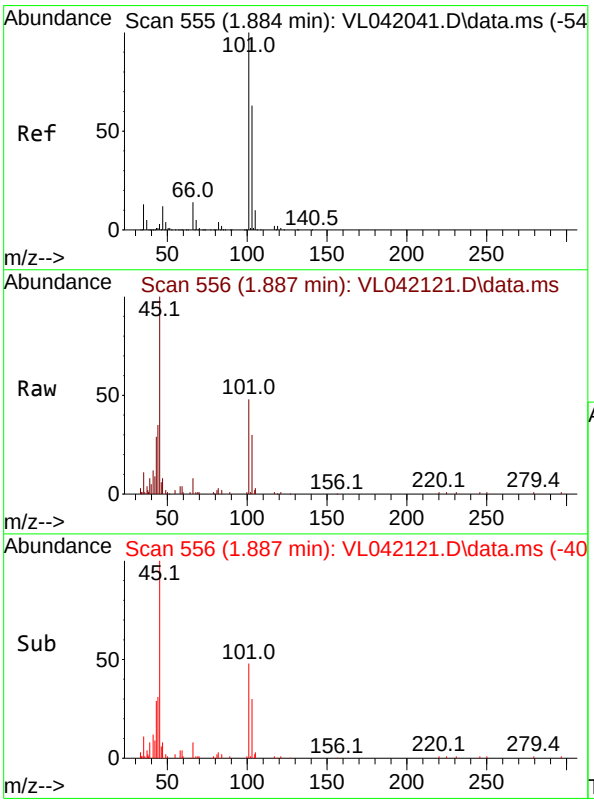
Ion	Ratio	Lower	Upper
41	100		
42	54.4	55.8	83.6#



Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations
APPROVED

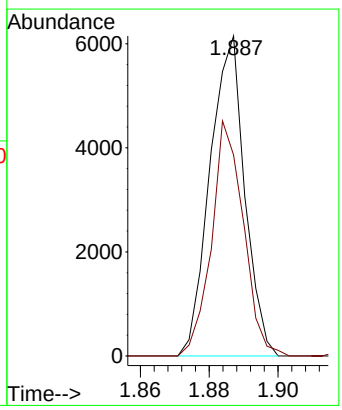
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

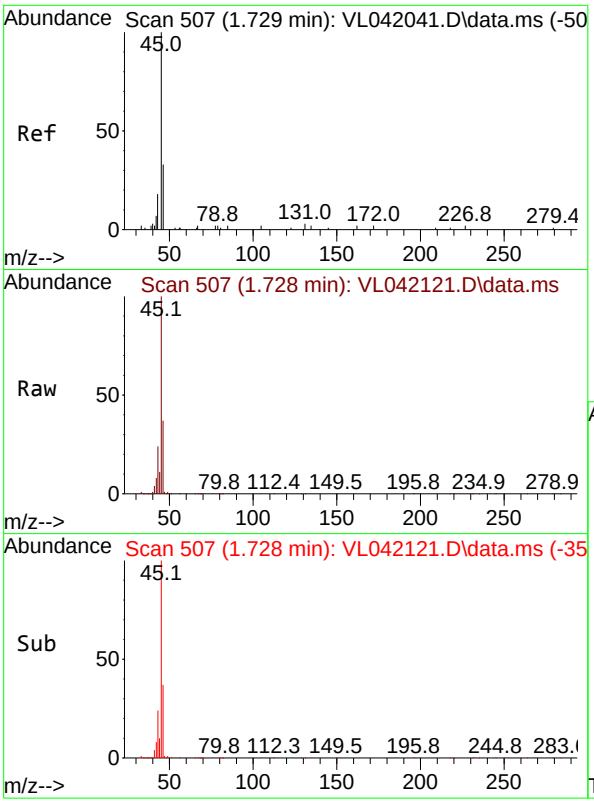


#11
Trichlorofluoromethane
Concen: 0.256 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion:101 Resp: 4307

Ion	Ratio	Lower	Upper
101	100		
103	62.8	50.6	75.8

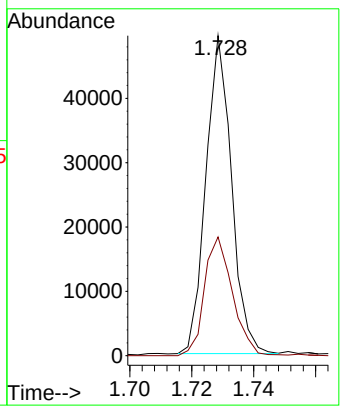




#13
Ethanol
Concen: 46.657 ppbv
RT: 1.728 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 45 Resp: 2833

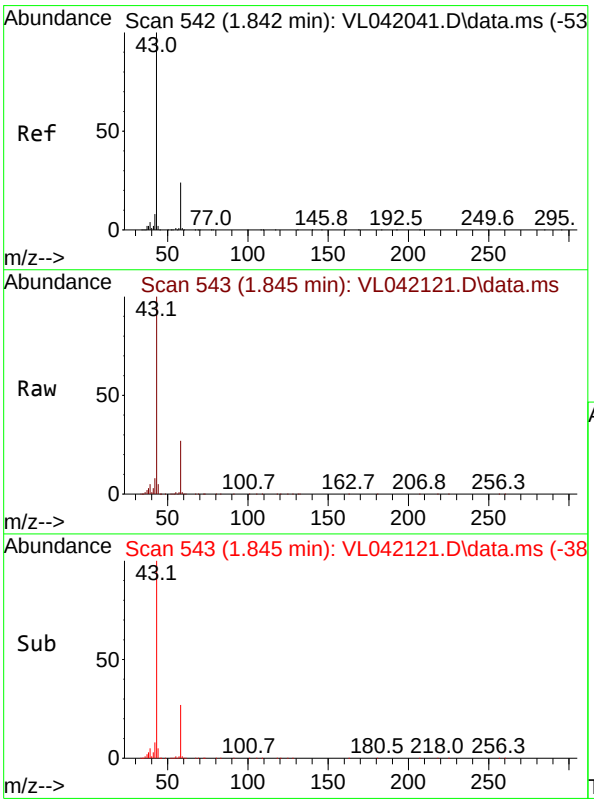
Ion	Ratio	Lower	Upper
45	100		
46	41.8	17.1	68.3



Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations
APPROVED

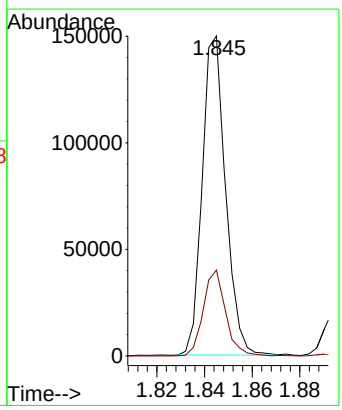
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

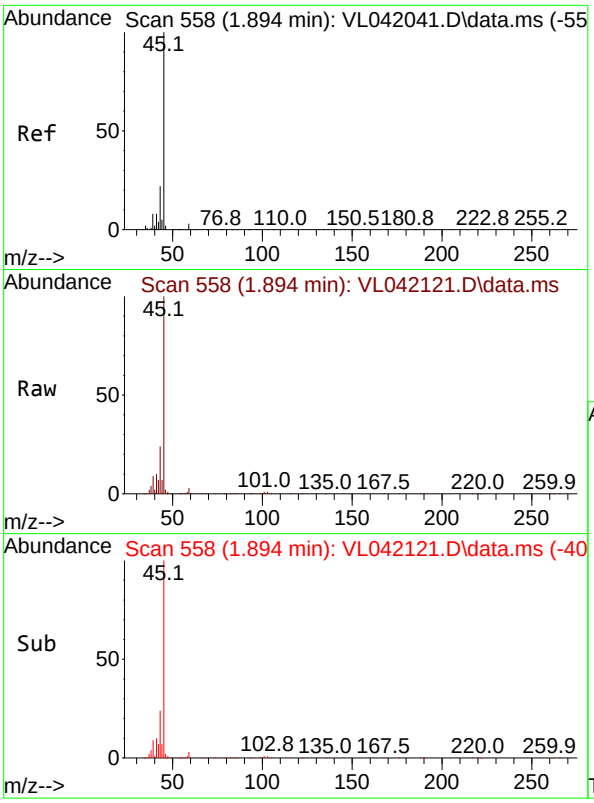


#15
Acetone
Concen: 7.157 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 43 Resp: 102118

Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.7	31.1

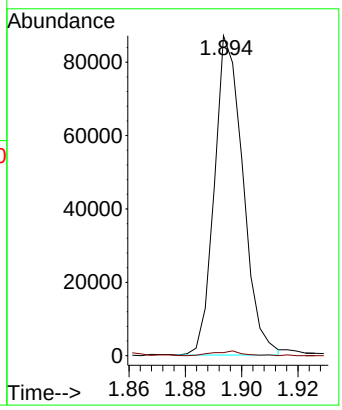




#19
Isopropyl Alcohol
Concen: 7.464 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 45 Resp: 6118

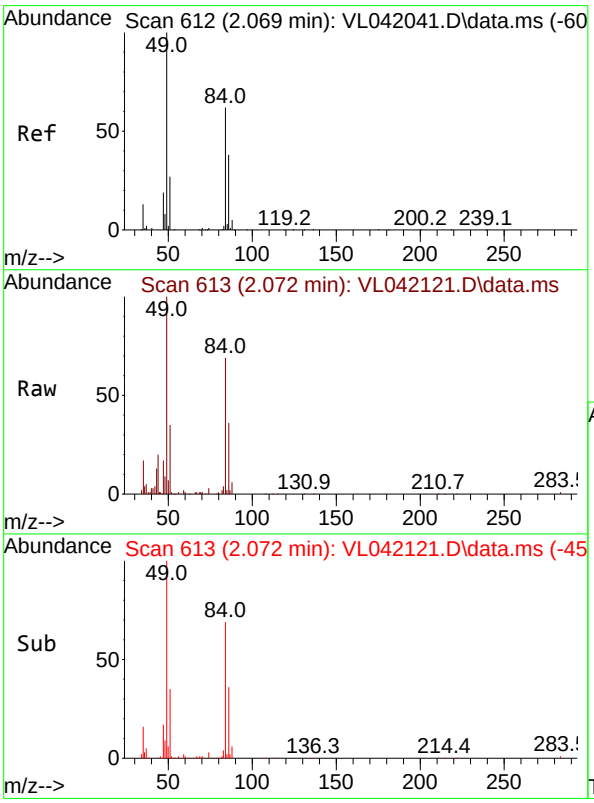
Ion	Ratio	Lower	Upper
45	100		
58	43.0	35.3	52.9



Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations
APPROVED

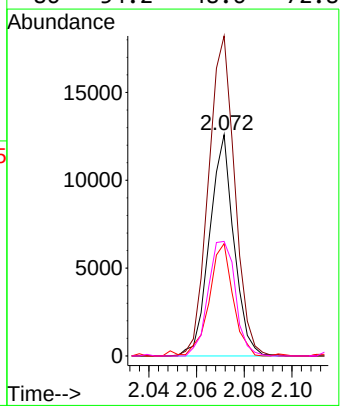
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

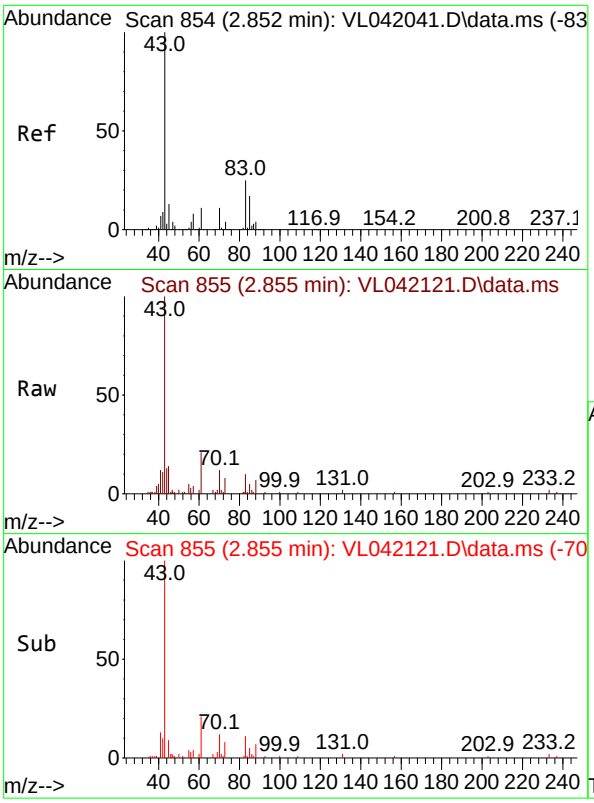


#20
Methylene Chloride
Concen: 1.653 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 84 Resp: 8920

Ion	Ratio	Lower	Upper
84	100		
49	144.0	130.0	195.0
51	50.1	37.4	56.0
86	54.2	48.6	72.8

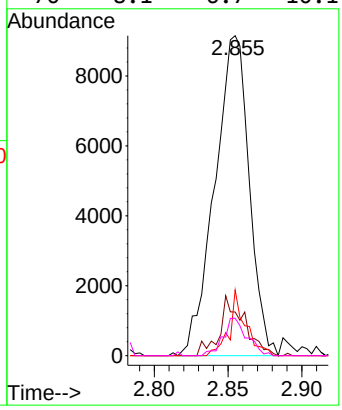




#25
Ethyl Acetate
Concen: 0.260 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 43 Resp: 1486

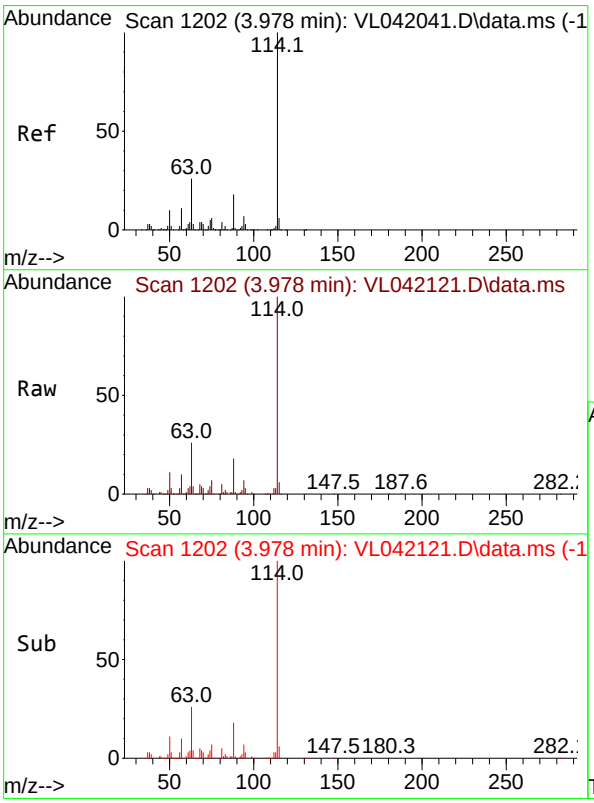
Ion	Ratio	Lower	Upper
43	100		
45	13.4	8.1	12.1
61	9.7	7.2	10.8
70	8.1	6.7	10.1



Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations
APPROVED

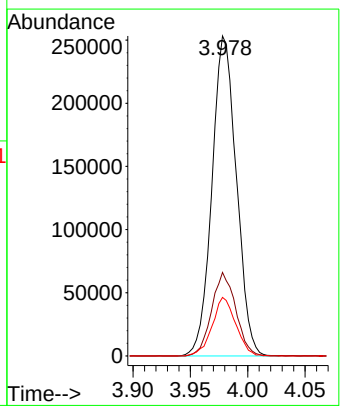
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

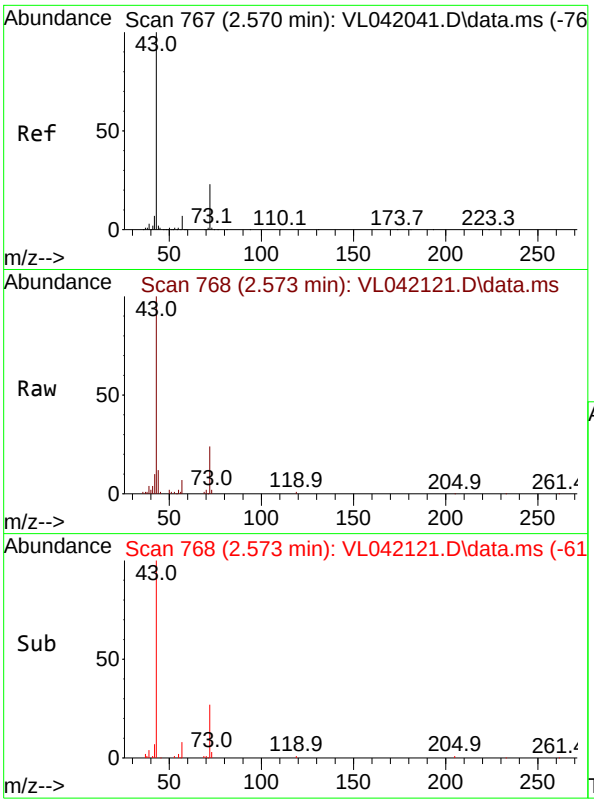


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion:114 Resp: 375440

Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.1	30.1
88	17.7	14.3	21.5





#34
2-Butanone
Concen: 0.651 ppbv
RT: 2.573 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

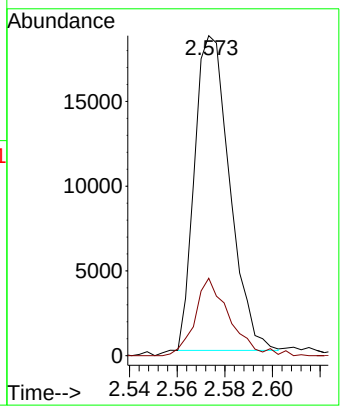
Tgt Ion: 43 Resp: 1905

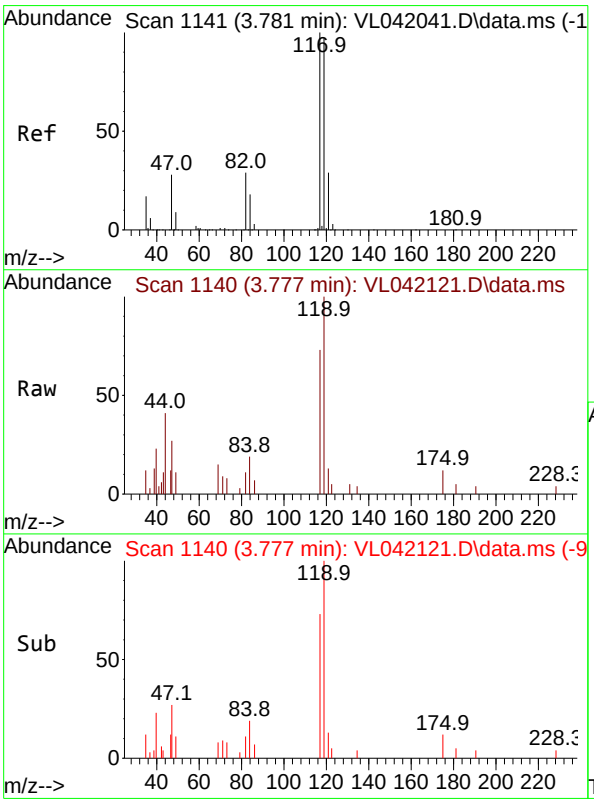
Ion	Ratio	Lower	Upper
43	100		
72	24.4	18.5	27.7

Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

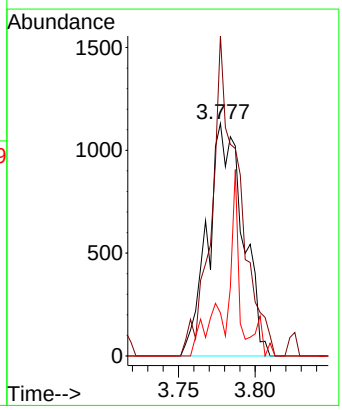


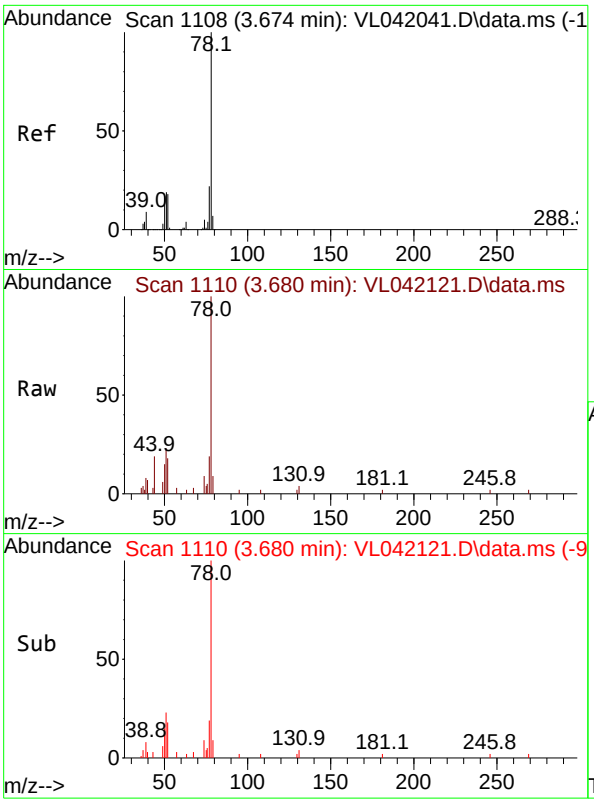


#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 3.777 min Scan# 1140
Delta R.T. -0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion:117 Resp: 1796

Ion	Ratio	Lower	Upper
117	100		
119	137.7	77.8	116.8#
121	18.5	23.4	35.0#

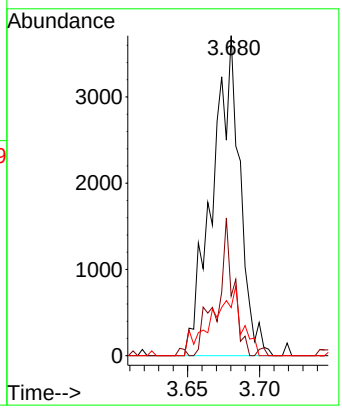




#36
Benzene
Concen: 0.126 ppbv m
RT: 3.680 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 78 Resp: 494

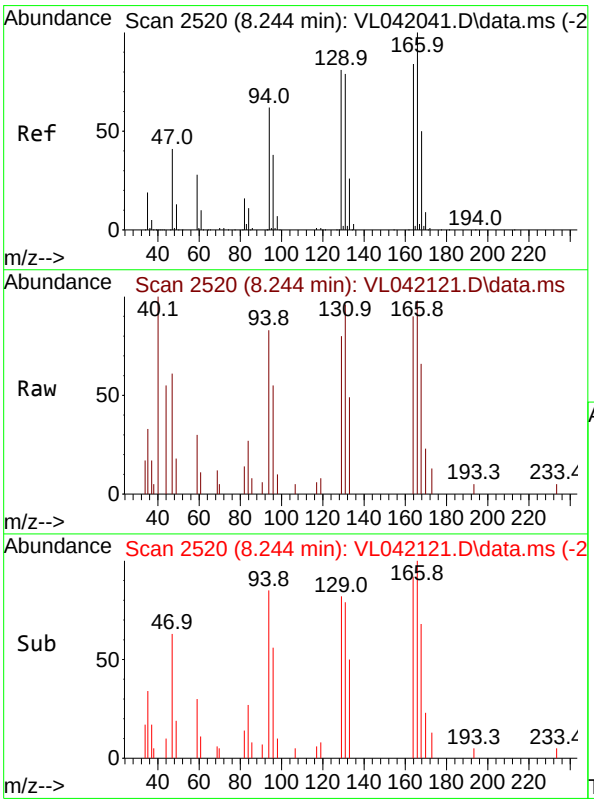
Ion	Ratio	Lower	Upper
78	100		
77	18.6	17.7	26.5
50	15.1	13.9	20.9



Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations
APPROVED

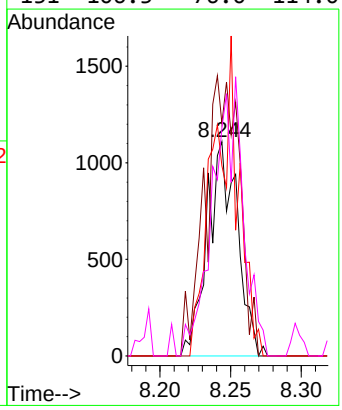
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

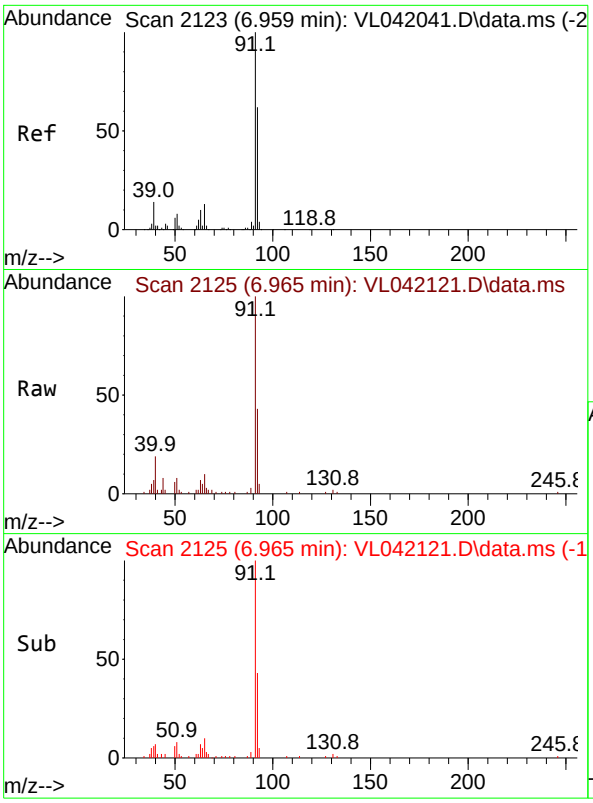


#52
Tetrachloroethene
Concen: 0.123 ppbv m
RT: 8.244 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion:164 Resp: 1656

Ion	Ratio	Lower	Upper
164	100		
166	108.7	95.7	143.5
129	88.8	77.1	115.7
131	106.3	76.0	114.0

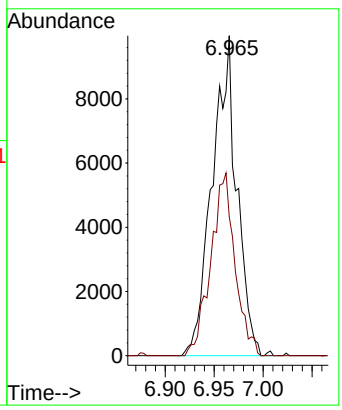




#53
Toluene
Concen: 0.397 ppbv m
RT: 6.965 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 91 Resp: 1741

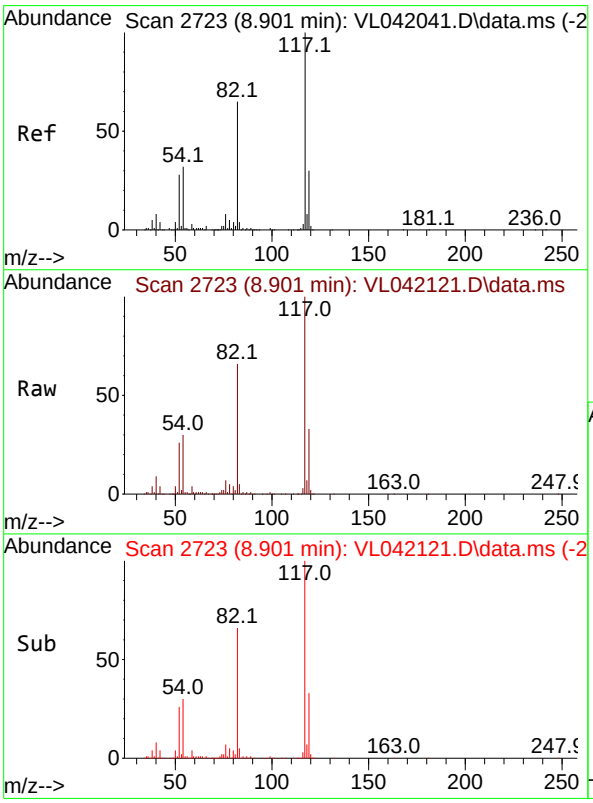
Ion	Ratio	Lower	Upper
91	100		
92	0.0	49.0	73.6



Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations
APPROVED

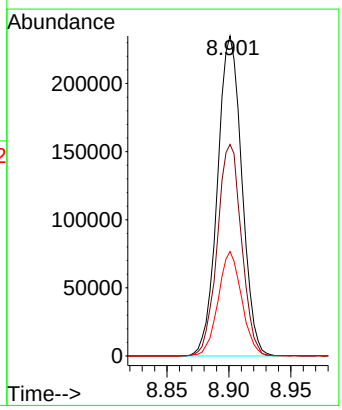
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

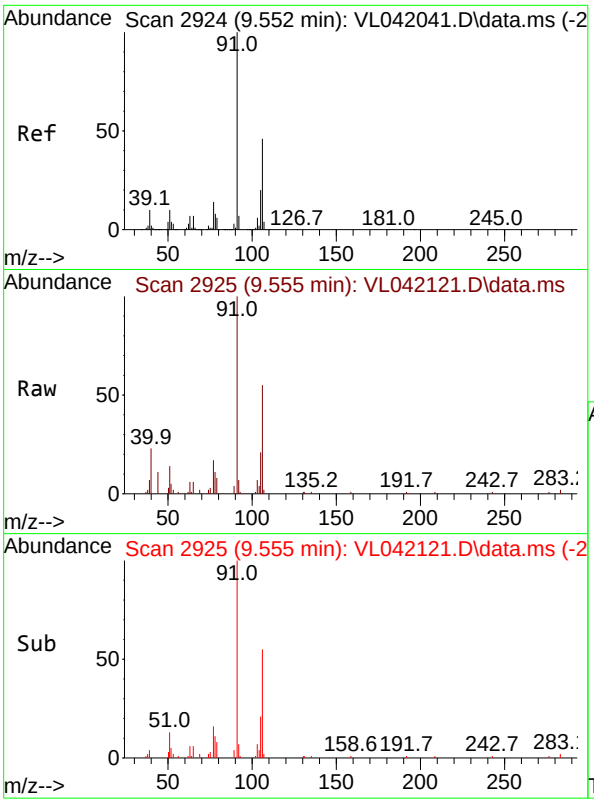


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion:117 Resp: 321830

Ion	Ratio	Lower	Upper
117	100		
82	65.8	55.0	82.6
119	31.7	25.9	38.9

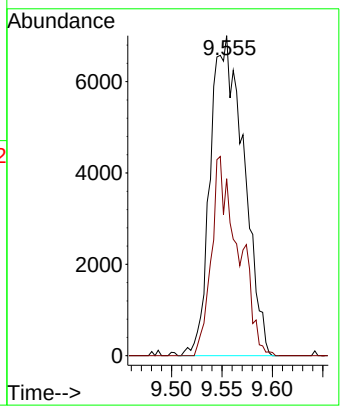




#59
m/p-Xylene
Concen: 0.342 ppbv m
RT: 9.555 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 91 Resp: 1614

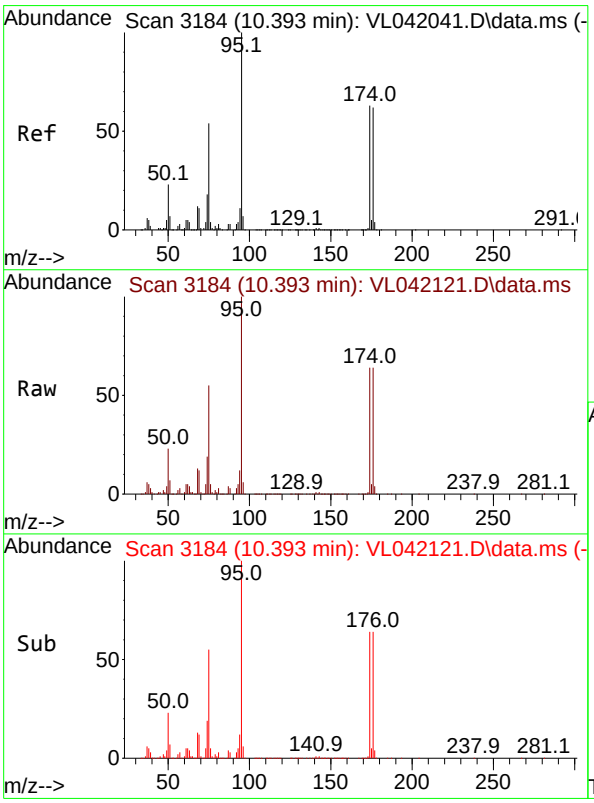
Ion	Ratio	Lower	Upper
91	100		
106	50.1	0.0	0.0#



Instrument :
MSVOA_L
ClientSampleId :
1

Manual Integrations
APPROVED

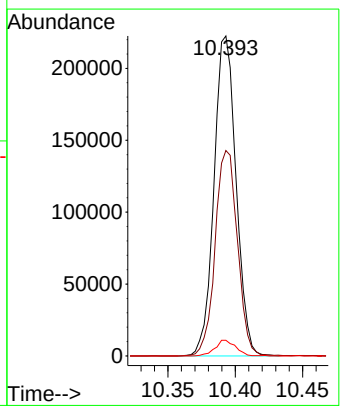
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.227 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 95 Resp: 253211

Ion	Ratio	Lower	Upper
95	100		
174	65.1	51.8	77.6
175	4.7	3.9	5.9



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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	2	SDG No.:	Q1532
Lab Sample ID:	Q1532-02	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
VL042123.D	1		03/10/25 14:06	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.51	2.52		1.04	2.47	ug/m3
74-87-3	Chloromethane	1.00	2.07		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	0.24	1.35	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	7.70	18.3		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	1.20	4.17		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	0.98	2.89		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	0.10	0.49	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	0.14	0.45	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	0.48	1.81	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:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	2	SDG No.:	Q1532
Lab Sample ID:	Q1532-02	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
VL042123.D	1		03/10/25 14:06	VL031025

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	0.040	0.27		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	0.31	1.35	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	0.50	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	167000		2.797			
540-36-3	1,4-Difluorobenzene	387000		3.978			
3114-55-4	Chlorobenzene-d5	330000		8.898			

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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	2	SDG No.:	Q1532
Lab Sample ID:	Q1532-02	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
VL042123.D	1		03/10/25 14:06	VL031025

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\VL031025\
Data File : VL042123.D
Acq On : 10 Mar 2025 14:06
Operator : SY/MD
Sample : Q1532-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:24:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	166689	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.978	114	387215	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	330250	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	257155	10.121	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8791	0.507	ppbv		99
3) Chlorodifluoromethane	1.483	51	6495m	0.268	ppbv		
4) Chloromethane	1.538	50	6619	1.033	ppbv		93
9) Propene	1.492	41	17331m	1.756	ppbv		
11) Trichlorofluoromethane	1.884	101	4086	0.235	ppbv		85
13) Ethanol	1.729	45	64435	102.846	ppbv		88
15) Acetone	1.842	43	112970	7.674	ppbv		98
17) tert-Butyl alcohol	2.052	59	2949m	0.160	ppbv		
19) Isopropyl Alcohol	1.894	45	110681	13.090	ppbv	#	35
20) Methylene Chloride	2.068	84	6629	1.191	ppbv		95
25) Ethyl Acetate	2.852	43	8747	0.148	ppbv	#	84
29) Chloroform	2.861	83	3349	0.104	ppbv	#	77
34) 2-Butanone	2.570	43	29478	0.977	ppbv		96
35) Carbon Tetrachloride	3.774	117	2237m	0.084	ppbv		
36) Benzene	3.671	78	5828	0.144	ppbv	#	93
52) Tetrachloroethene	8.247	164	599m	0.043	ppbv		
53) Toluene	6.962	91	21918m	0.484	ppbv		
59) m/p-Xylene	9.545	91	15092	0.312	ppbv	#	100

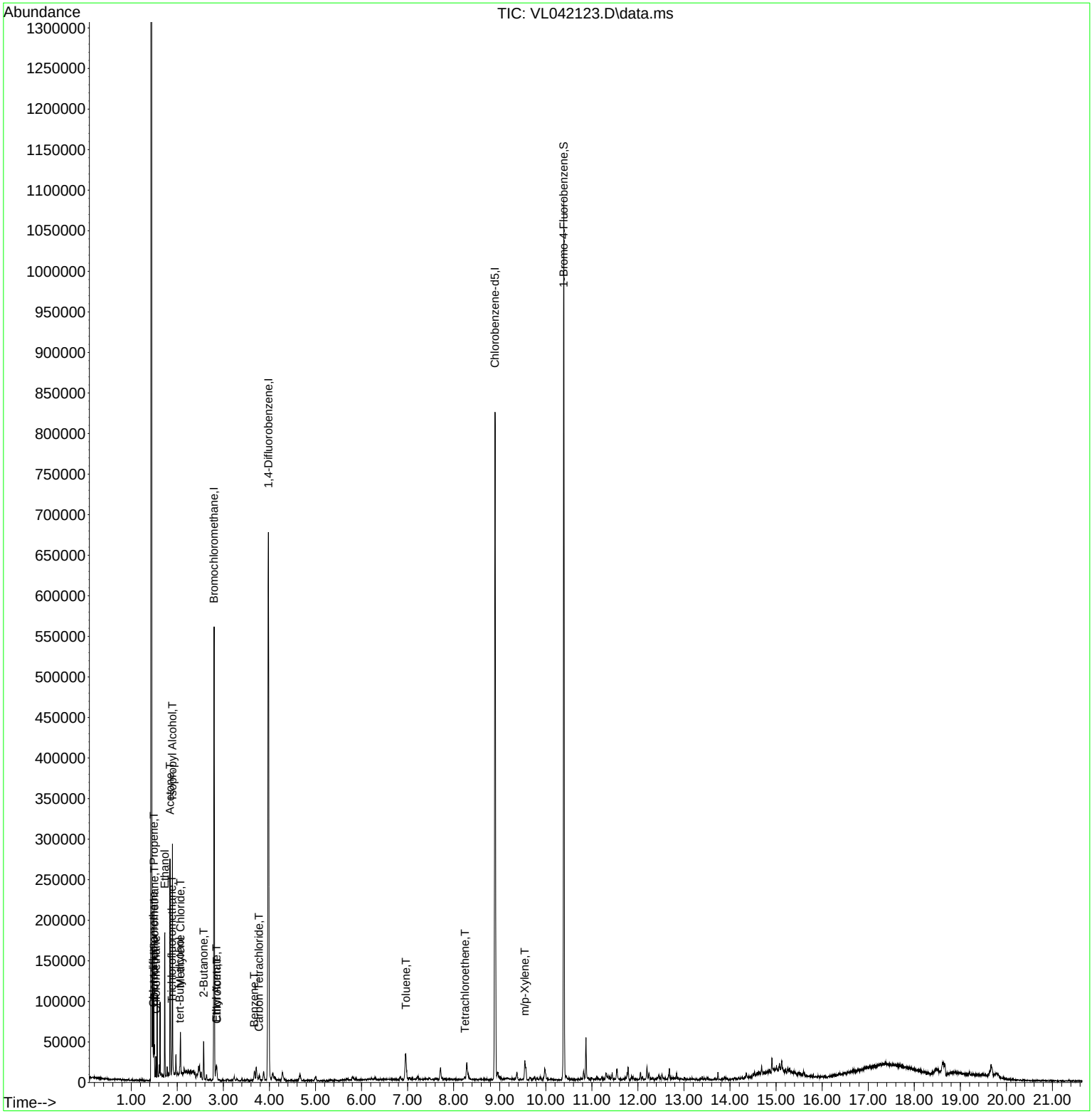
(#) = qualifier out of range (m) = manual integration (+) = signals summed

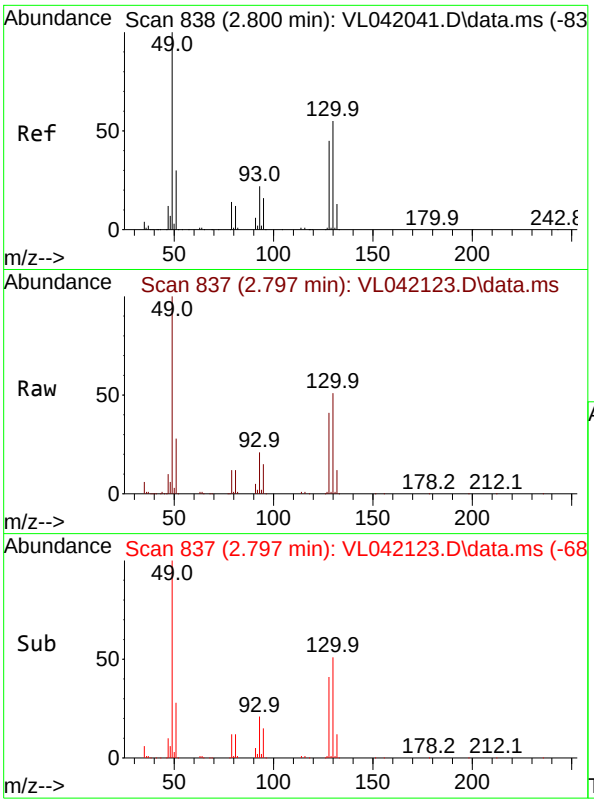
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042123.D
Acq On : 10 Mar 2025 14:06
Operator : SY/MD
Sample : Q1532-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:24:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

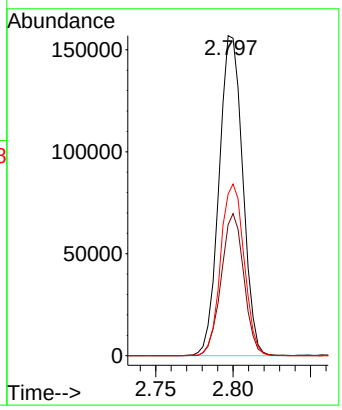




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 49 Resp: 16668

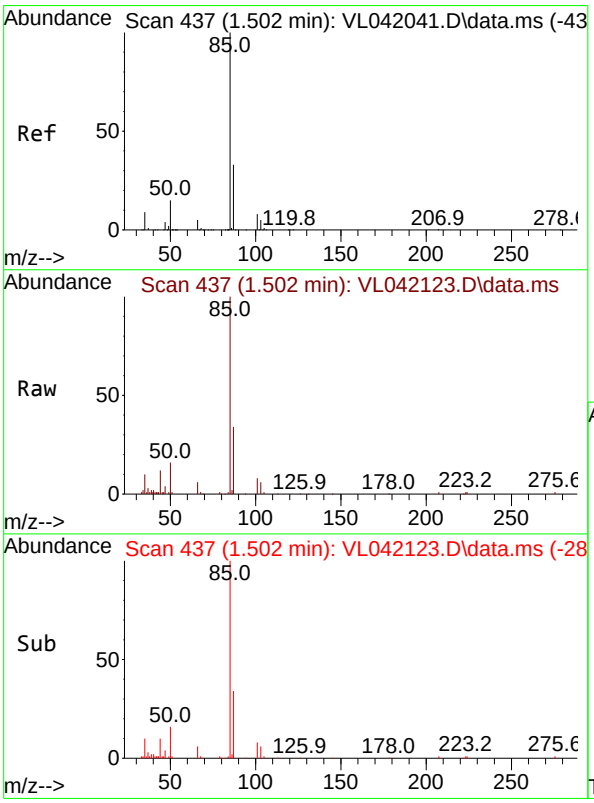
Ion	Ratio	Lower	Upper
49	100		
128	42.6	21.6	64.8
130	53.2	27.8	83.4



Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations
APPROVED

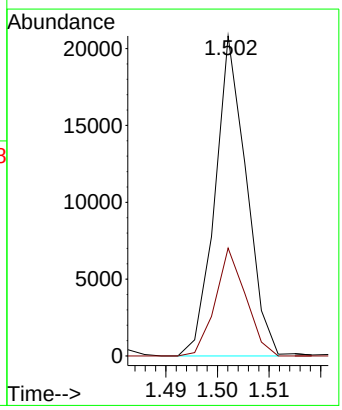
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

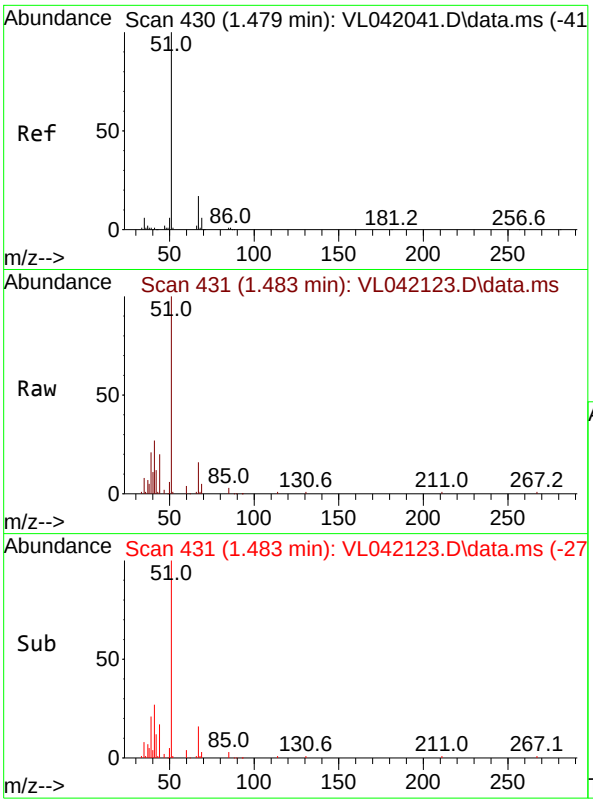


#2
Dichlorodifluoromethane
Concen: 0.507 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 85 Resp: 8791

Ion	Ratio	Lower	Upper
85	100		
87	33.7	26.4	39.6

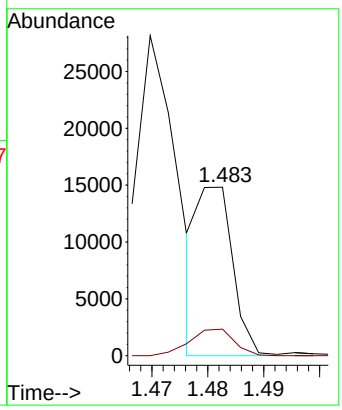




#3
Chlorodifluoromethane
Concen: 0.268 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 51 Resp: 649

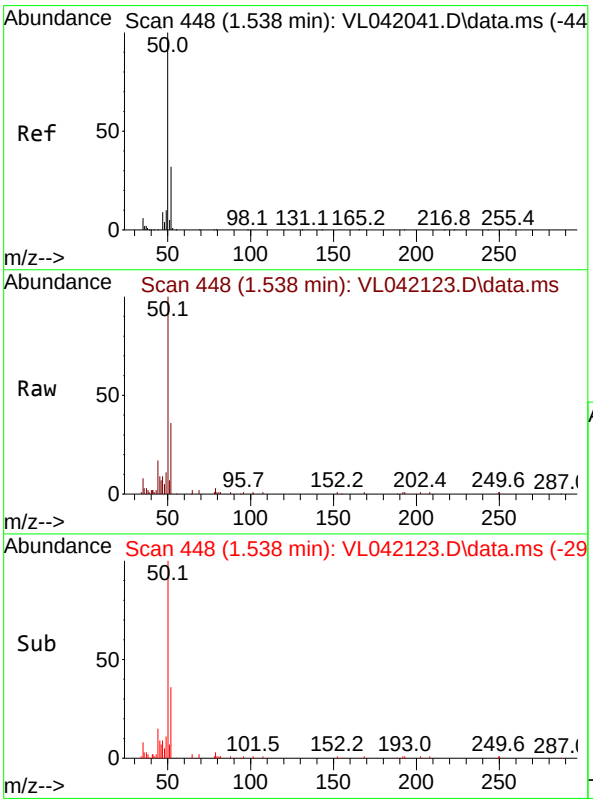
Ion	Ratio	Lower	Upper
51	100		
67	20.0	13.7	20.5



Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations
APPROVED

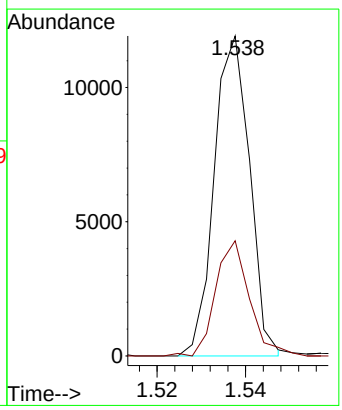
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

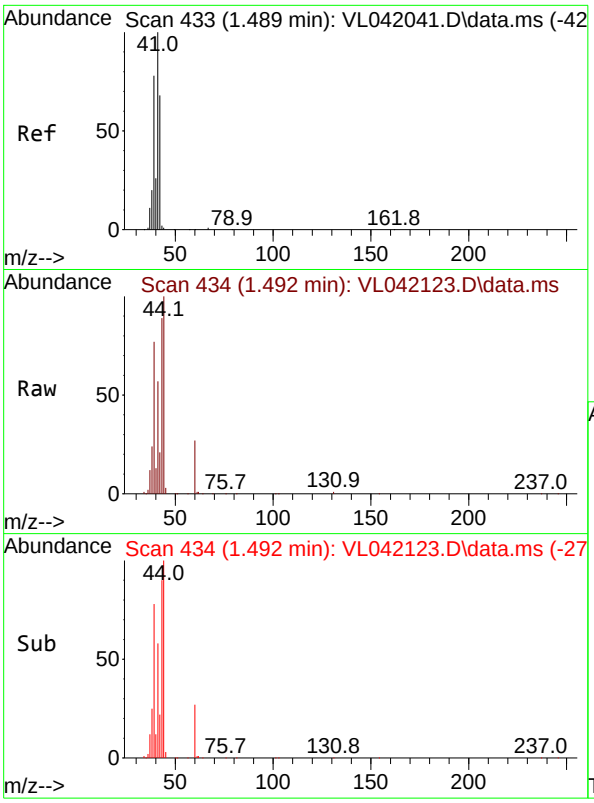


#4
Chloromethane
Concen: 1.033 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 50 Resp: 6619

Ion	Ratio	Lower	Upper
50	100		
52	35.4	25.4	38.0

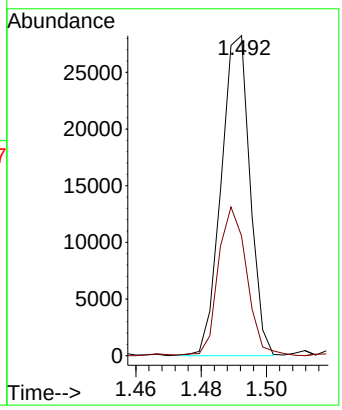




#9
Propene
Concen: 1.756 ppbv m
RT: 1.492 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 41 Resp: 1733

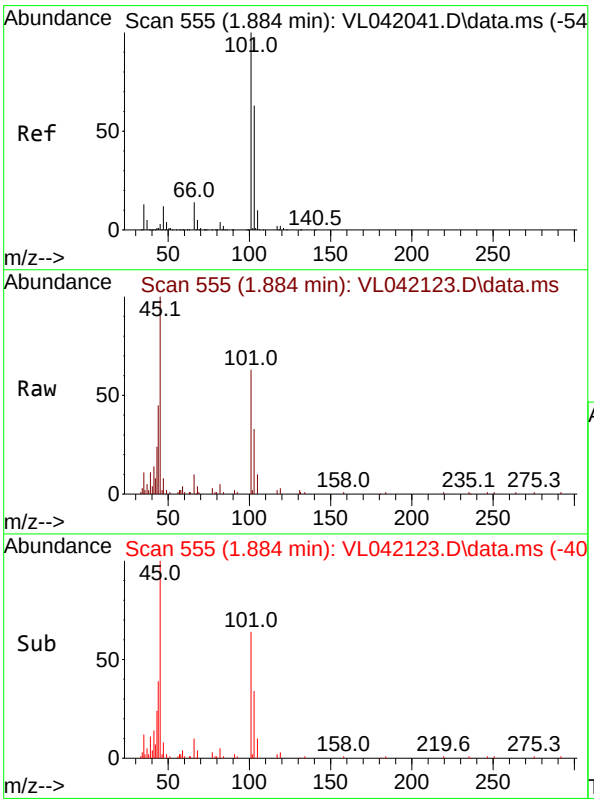
Ion	Ratio	Lower	Upper
41	100		
42	0.0	55.8	83.6



Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations
APPROVED

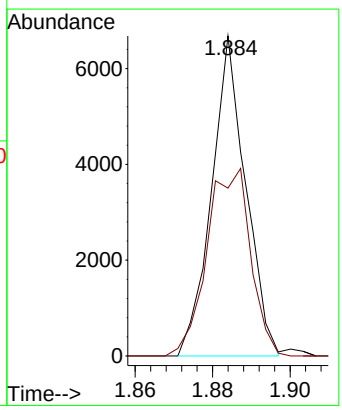
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

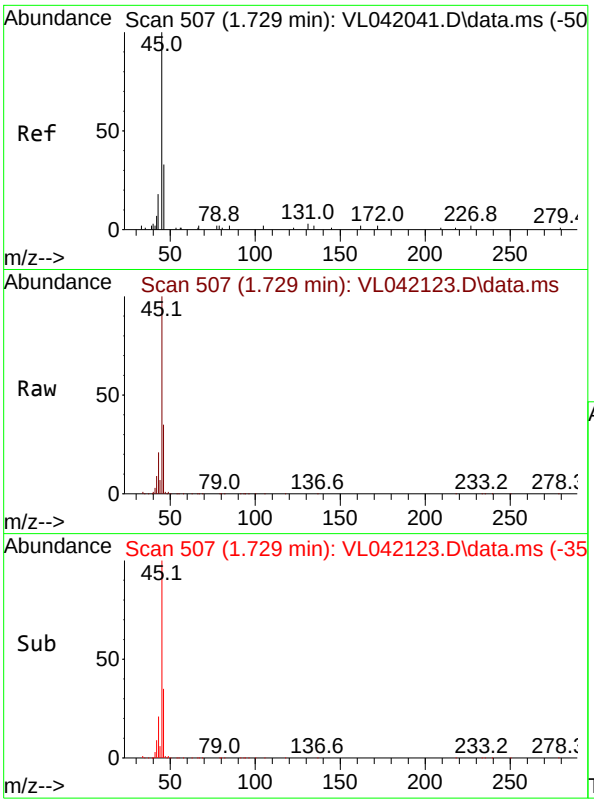


#11
Trichlorofluoromethane
Concen: 0.235 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion:101 Resp: 4086

Ion	Ratio	Lower	Upper
101	100		
103	51.6	50.6	75.8

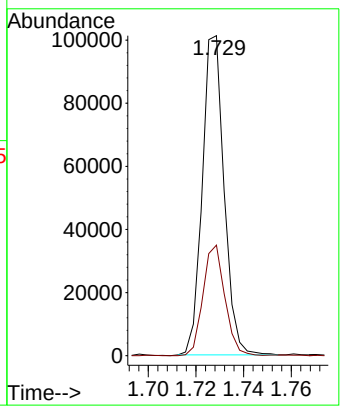




#13
Ethanol
Concen: 102.846 ppbv
RT: 1.729 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 45 Resp: 6443

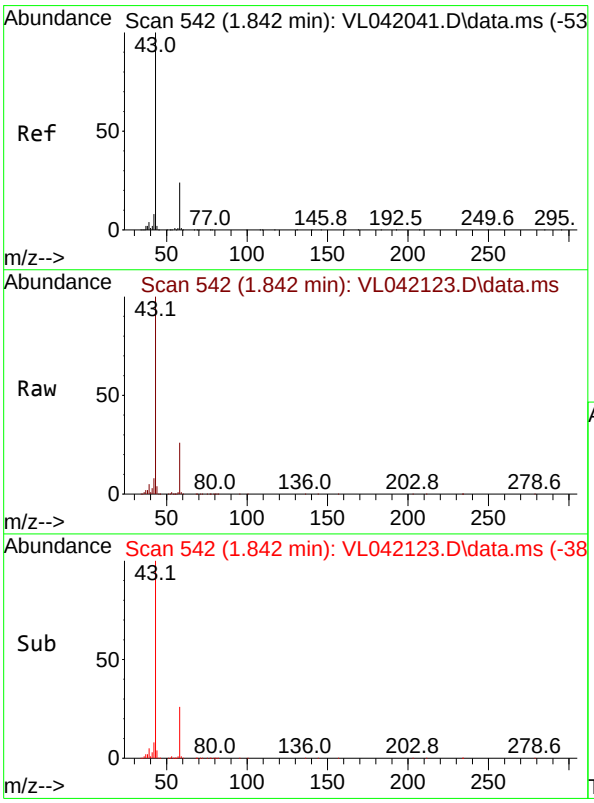
Ion	Ratio	Lower	Upper
45	100		
46	35.2	17.1	68.3



Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations
APPROVED

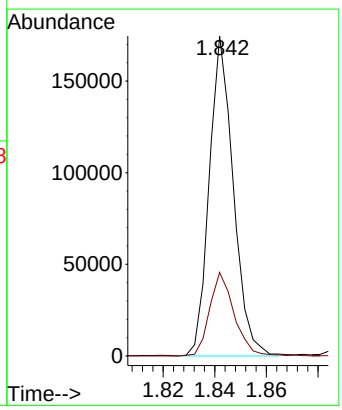
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

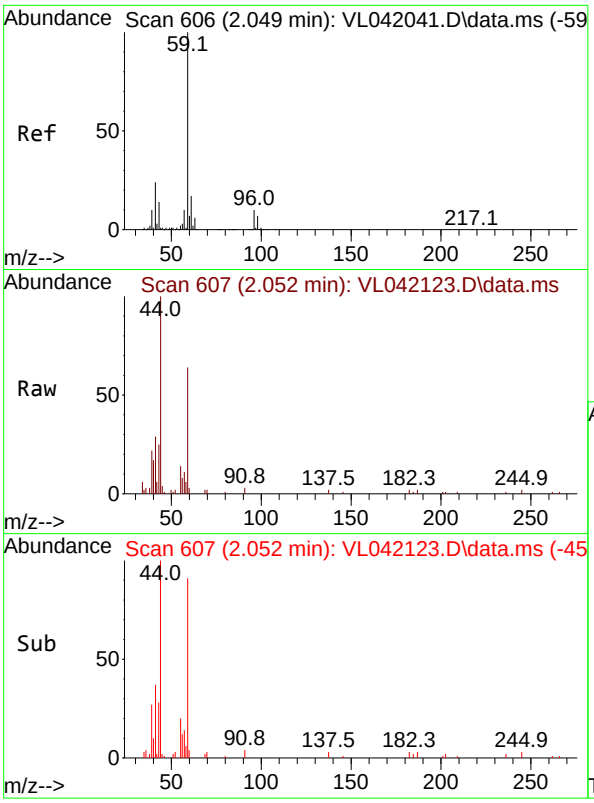


#15
Acetone
Concen: 7.674 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 43 Resp: 112970

Ion	Ratio	Lower	Upper
43	100		
58	26.7	20.7	31.1

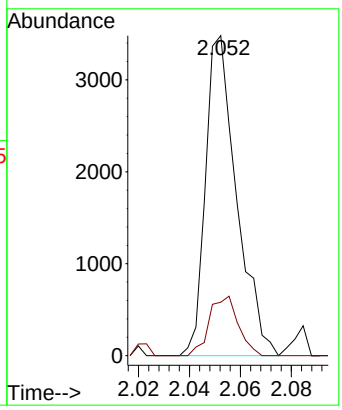




#17
tert-Butyl alcohol
Concen: 0.160 ppbv m
RT: 2.052 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 59 Resp: 294

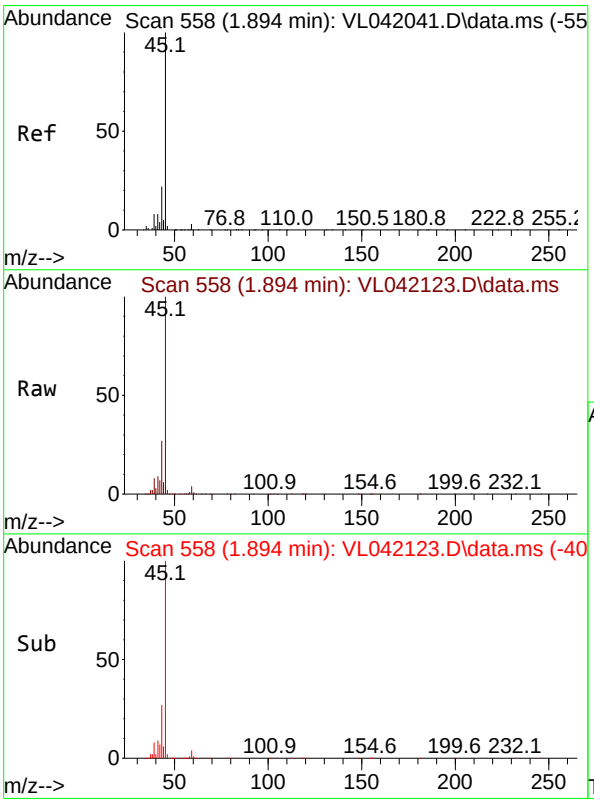
Ion	Ratio	Lower	Upper
59	100		
57	16.0	9.3	13.9#



Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations
APPROVED

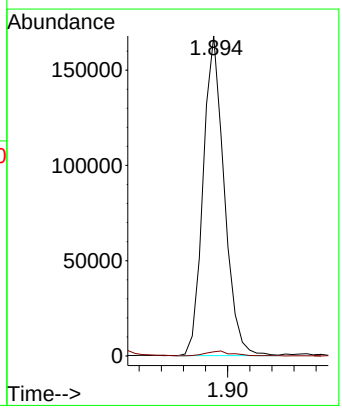
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

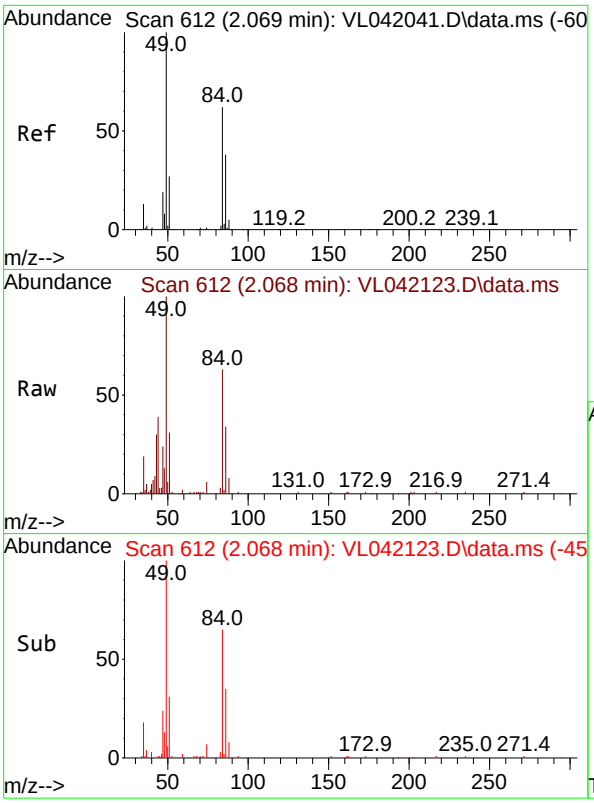


#19
Isopropyl Alcohol
Concen: 13.090 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 45 Resp: 110681

Ion	Ratio	Lower	Upper
45	100		
58	1.9	35.3	52.9#

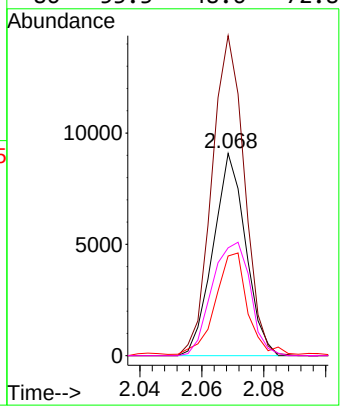




#20
Methylene Chloride
Concen: 1.191 ppbv
RT: 2.068 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 84 Resp: 662

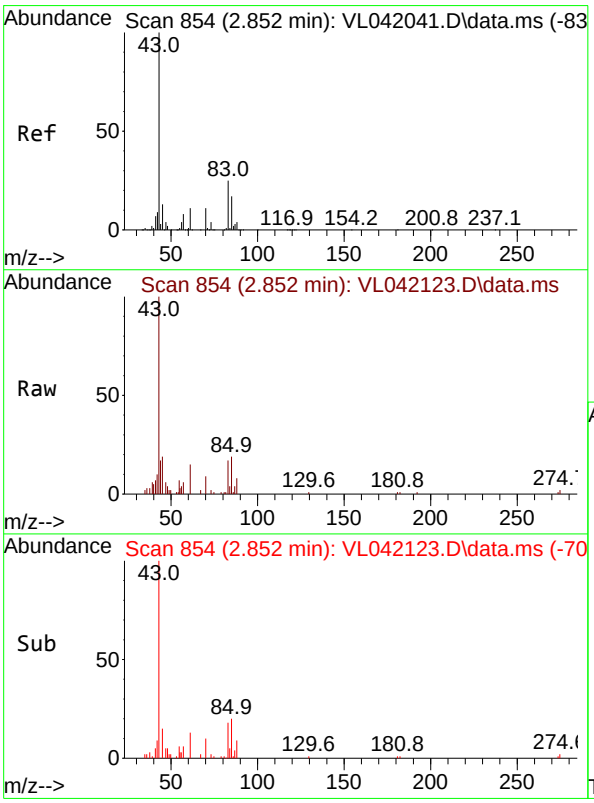
Ion	Ratio	Lower	Upper
84	100		
49	157.3	130.0	195.0
51	48.6	37.4	56.0
86	53.3	48.6	72.8



Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations
APPROVED

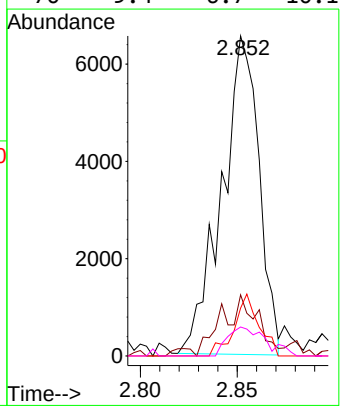
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

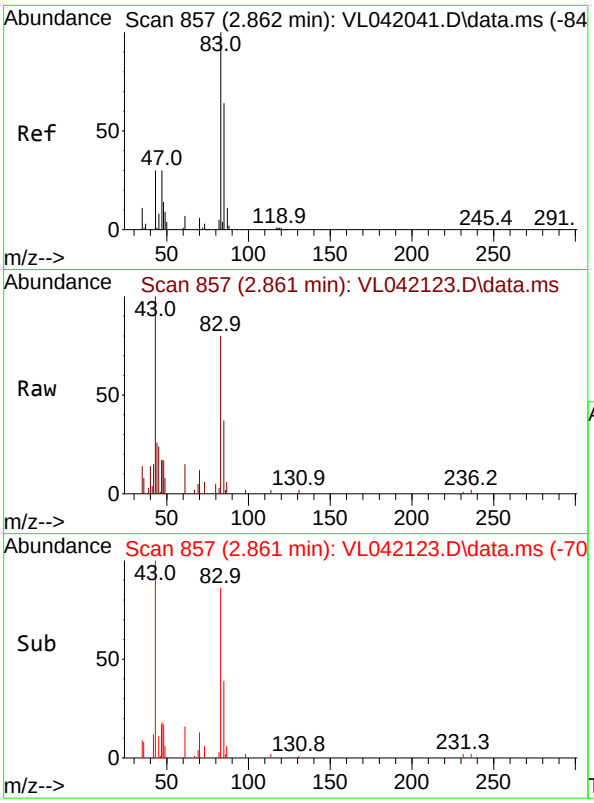


#25
Ethyl Acetate
Concen: 0.148 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 43 Resp: 8747

Ion	Ratio	Lower	Upper
43	100		
45	22.0	8.1	12.1#
61	12.9	7.2	10.8#
70	9.4	6.7	10.1

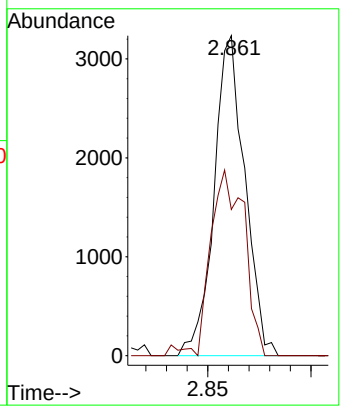




#29
Chloroform
Concen: 0.104 ppbv
RT: 2.861 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 83 Resp: 334

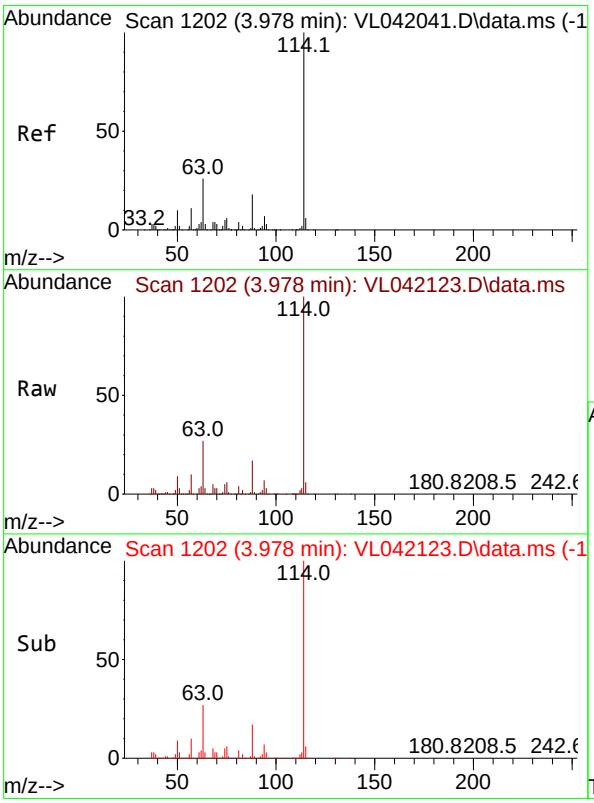
Ion	Ratio	Lower	Upper
83	100		
85	45.7	51.2	76.8



Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations
APPROVED

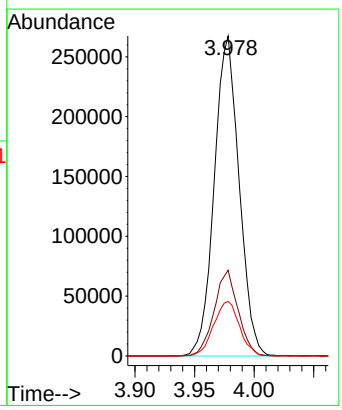
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

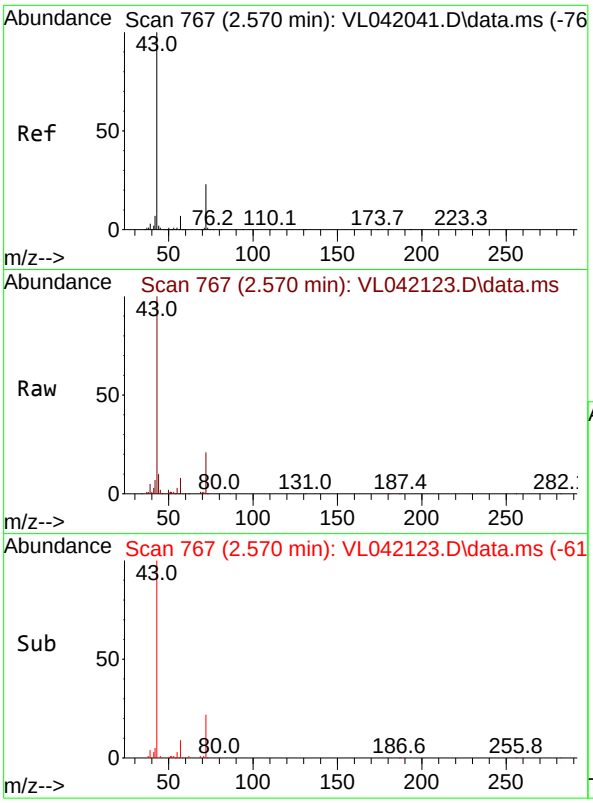


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion:114 Resp: 387215

Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.1	30.1
88	17.8	14.3	21.5





#34
2-Butanone
Concen: 0.977 ppbv
RT: 2.570 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

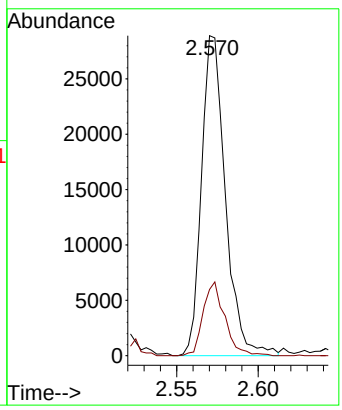
Tgt Ion: 43 Resp: 2947

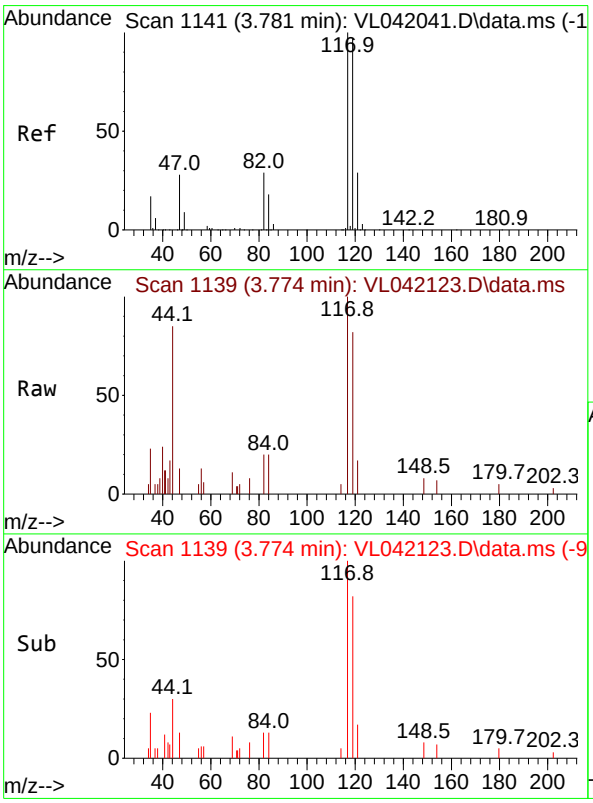
Ion	Ratio	Lower	Upper
43	100		
72	21.0	18.5	27.7

Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

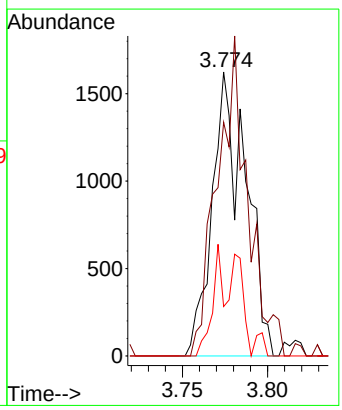


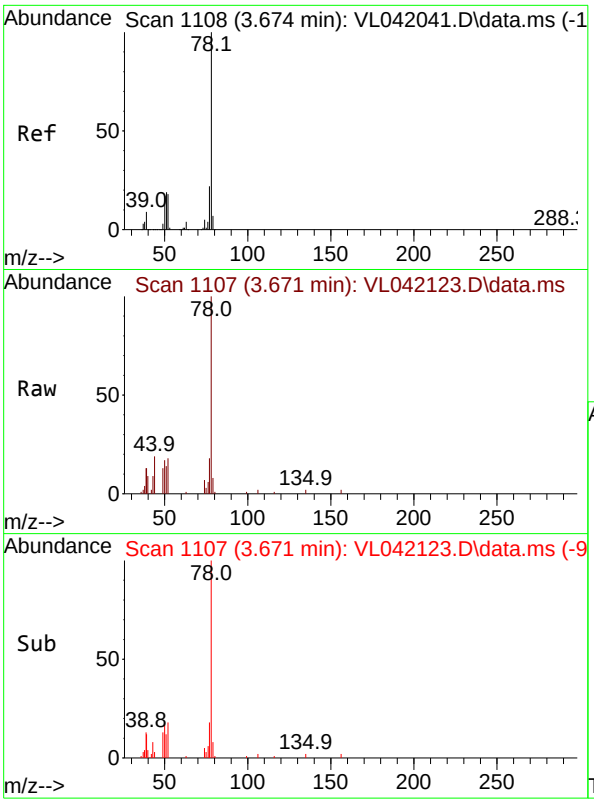


#35
Carbon Tetrachloride
Concen: 0.084 ppbv m
RT: 3.774 min Scan# 1139
Delta R.T. -0.007 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion:117 Resp: 2237

Ion	Ratio	Lower	Upper
117	100		
119	82.3	77.8	116.8
121	17.4	23.4	35.0#

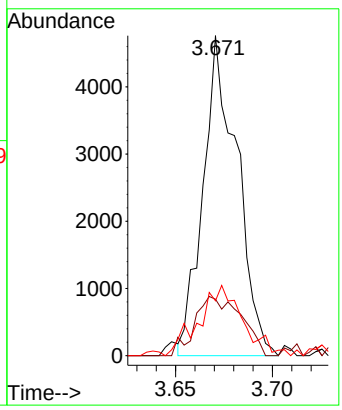




#36
Benzene
Concen: 0.144 ppbv
RT: 3.671 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 78 Resp: 582

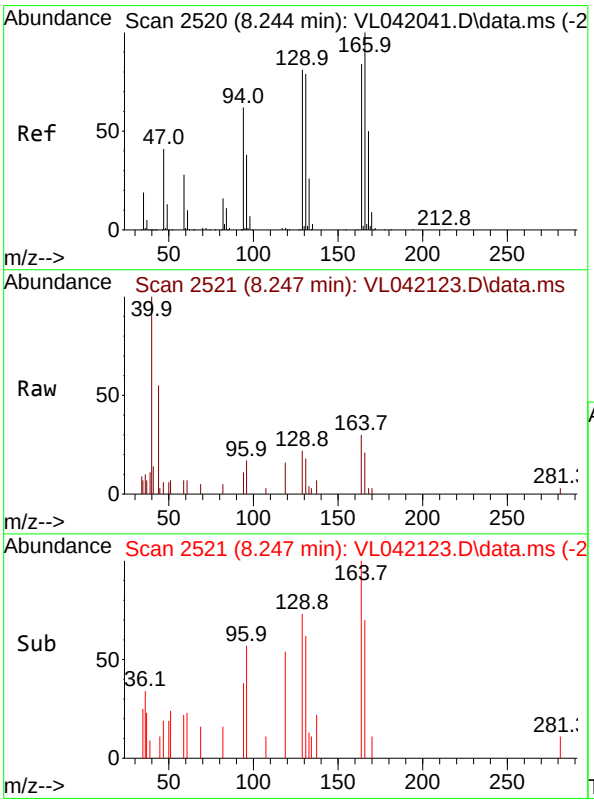
Ion	Ratio	Lower	Upper
78	100		
77	17.7	17.7	26.5#
50	15.5	13.9	20.9



Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations
APPROVED

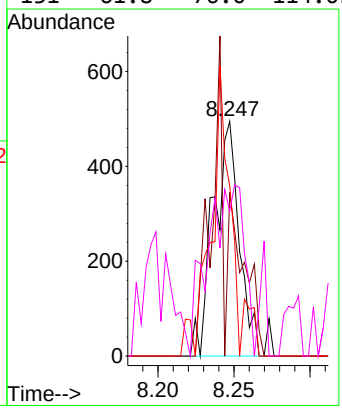
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

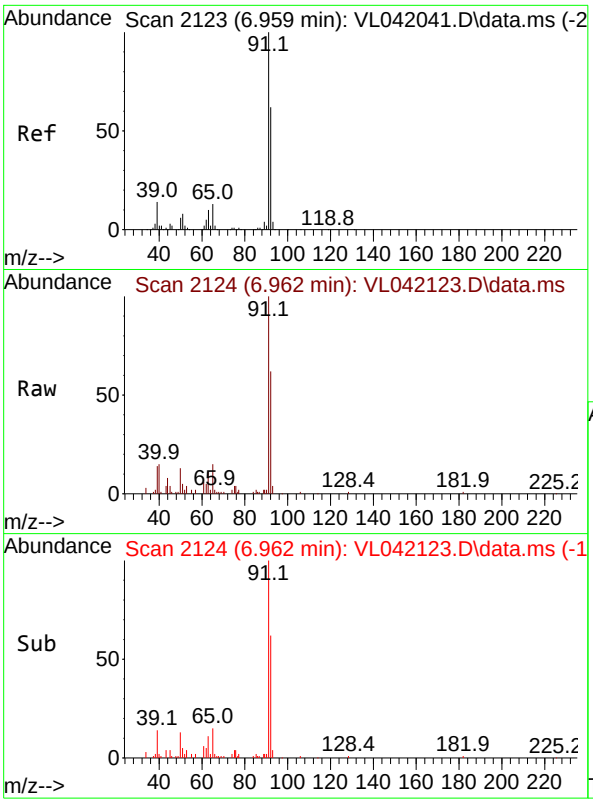


#52
Tetrachloroethene
Concen: 0.043 ppbv m
RT: 8.247 min Scan# 2521
Delta R.T. 0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion:164 Resp: 599

Ion	Ratio	Lower	Upper
164	100		
166	69.7	95.7	143.5#
129	72.5	77.1	115.7#
131	61.8	76.0	114.0#

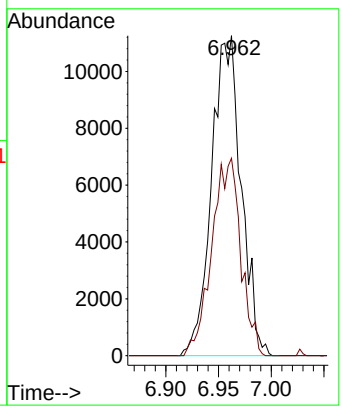




#53
Toluene
Concen: 0.484 ppbv m
RT: 6.962 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 91 Resp: 2191

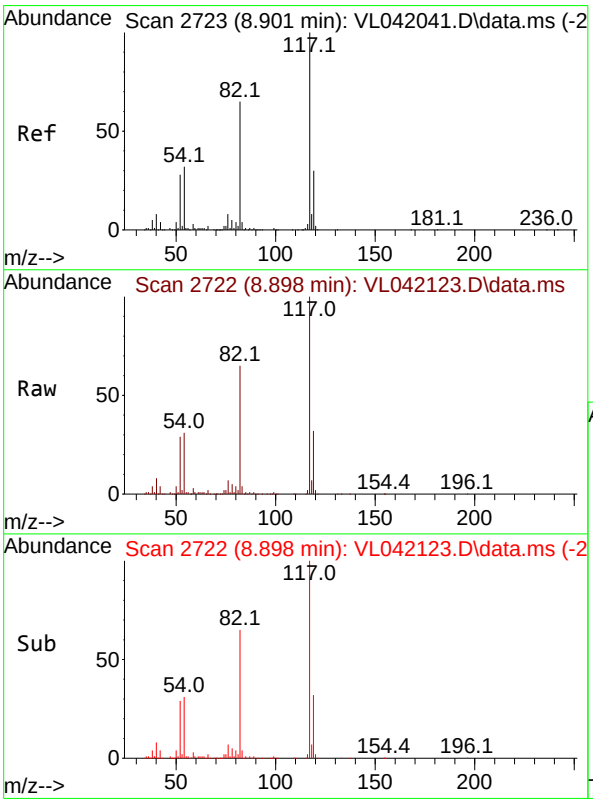
Ion	Ratio	Lower	Upper
91	100		
92	0.0	49.0	73.6



Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations
APPROVED

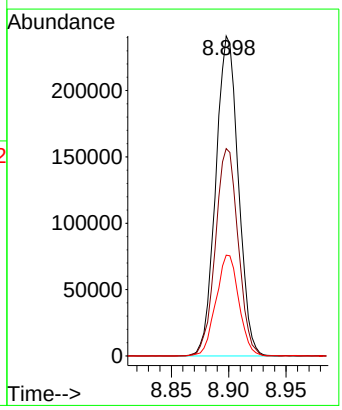
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

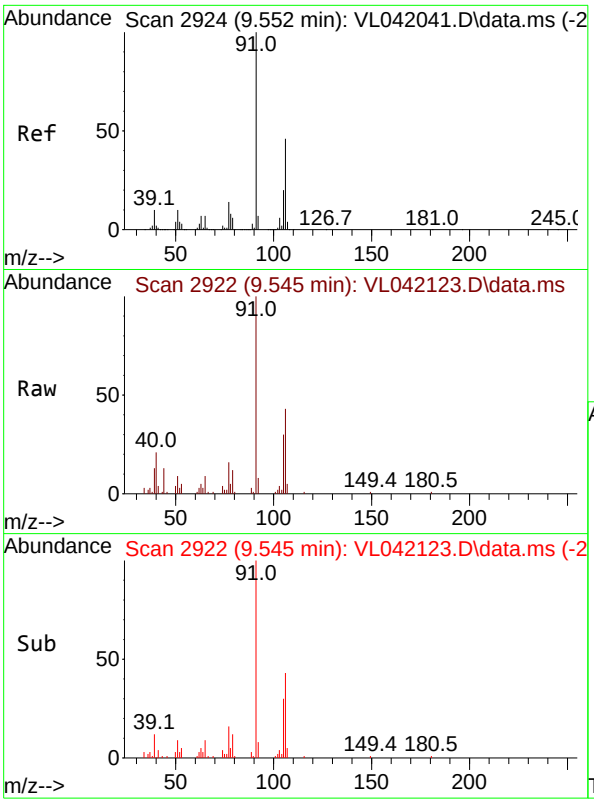


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion:117 Resp: 330250

Ion	Ratio	Lower	Upper
117	100		
82	65.5	55.0	82.6
119	32.1	25.9	38.9





#59
m/p-Xylene
Concen: 0.312 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

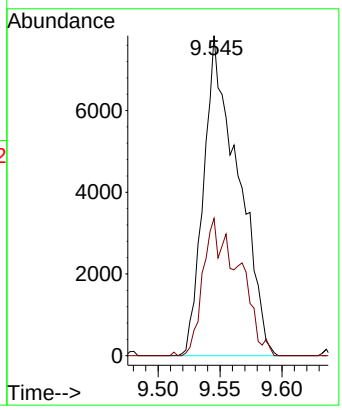
Tgt Ion: 91 Resp: 1509

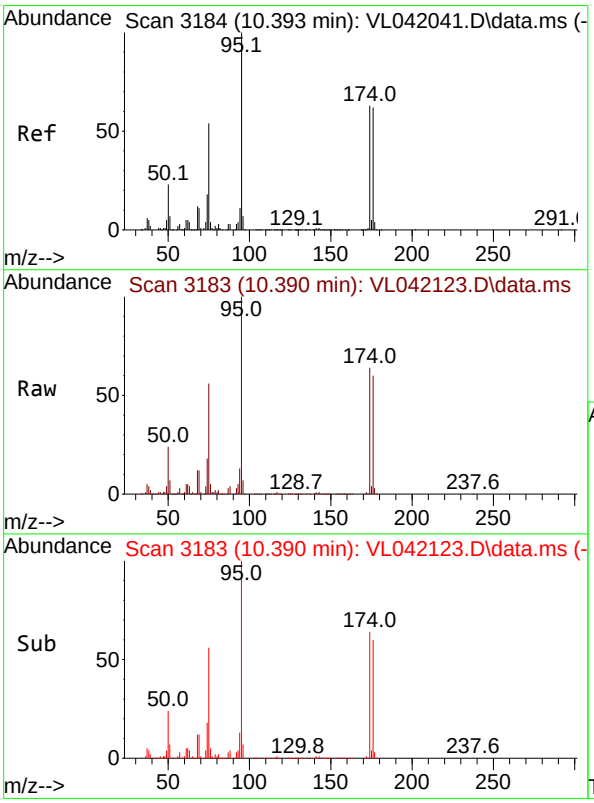
Ion	Ratio	Lower	Upper
91	100		
106	45.1	0.0	0.0

Instrument :
MSVOA_L
ClientSampleId :
2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

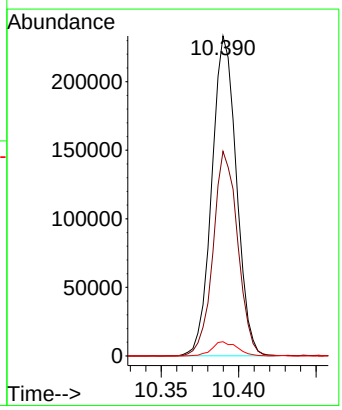




#68
1-Bromo-4-Fluorobenzene
Concen: 10.121 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 95 Resp: 257155

Ion	Ratio	Lower	Upper
95	100		
174	64.4	51.8	77.6
175	4.6	3.9	5.9



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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	3	SDG No.:	Q1532
Lab Sample ID:	Q1532-03	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
VL042125.D	1		03/10/25 15:10	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.51	2.52		1.04	2.47	ug/m3
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	6.50	15.4		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	1.50	5.21		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	0.69	2.04		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	0.14	0.45	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	0.38	1.43	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:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	3	SDG No.:	Q1532
Lab Sample ID:	Q1532-03	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
VL042125.D	1		03/10/25 15:10	VL031025

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	0.50	2.17	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.27	1.17	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	0.50	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	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	165000		2.8			
540-36-3	1,4-Difluorobenzene	383000		3.975			
3114-55-4	Chlorobenzene-d5	326000		8.898			

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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	3	SDG No.:	Q1532
Lab Sample ID:	Q1532-03	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
VL042125.D	1		03/10/25 15:10	VL031025

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\VL031025\
Data File : VL042125.D
Acq On : 10 Mar 2025 15:10
Operator : SY/MD
Sample : Q1532-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:25:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	165184	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	383076	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	325600	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	257724	10.288	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	8811	0.513	ppbv	98
3) Chlorodifluoromethane	1.479	51	5361m	0.223	ppbv	
4) Chloromethane	1.538	50	3667	0.577	ppbv	90
9) Propene	1.492	41	14075m	1.439	ppbv	
11) Trichlorofluoromethane	1.884	101	4245	0.247	ppbv	98
13) Ethanol	1.725	45	49066	79.029	ppbv	91
15) Acetone	1.842	43	95309	6.534	ppbv	99
17) tert-Butyl alcohol	2.052	59	2468m	0.135	ppbv	
19) Isopropyl Alcohol	1.894	45	80421	9.598	ppbv #	35
20) Methylene Chloride	2.068	84	8194	1.485	ppbv	90
34) 2-Butanone	2.573	43	20566	0.689	ppbv	93
35) Carbon Tetrachloride	3.781	117	1856m	0.070	ppbv	
36) Benzene	3.671	78	5810	0.145	ppbv #	82
52) Tetrachloroethene	8.244	164	935m	0.068	ppbv	
53) Toluene	6.959	91	16945	0.378	ppbv	93
59) m/p-Xylene	9.545	91	13078m	0.274	ppbv	

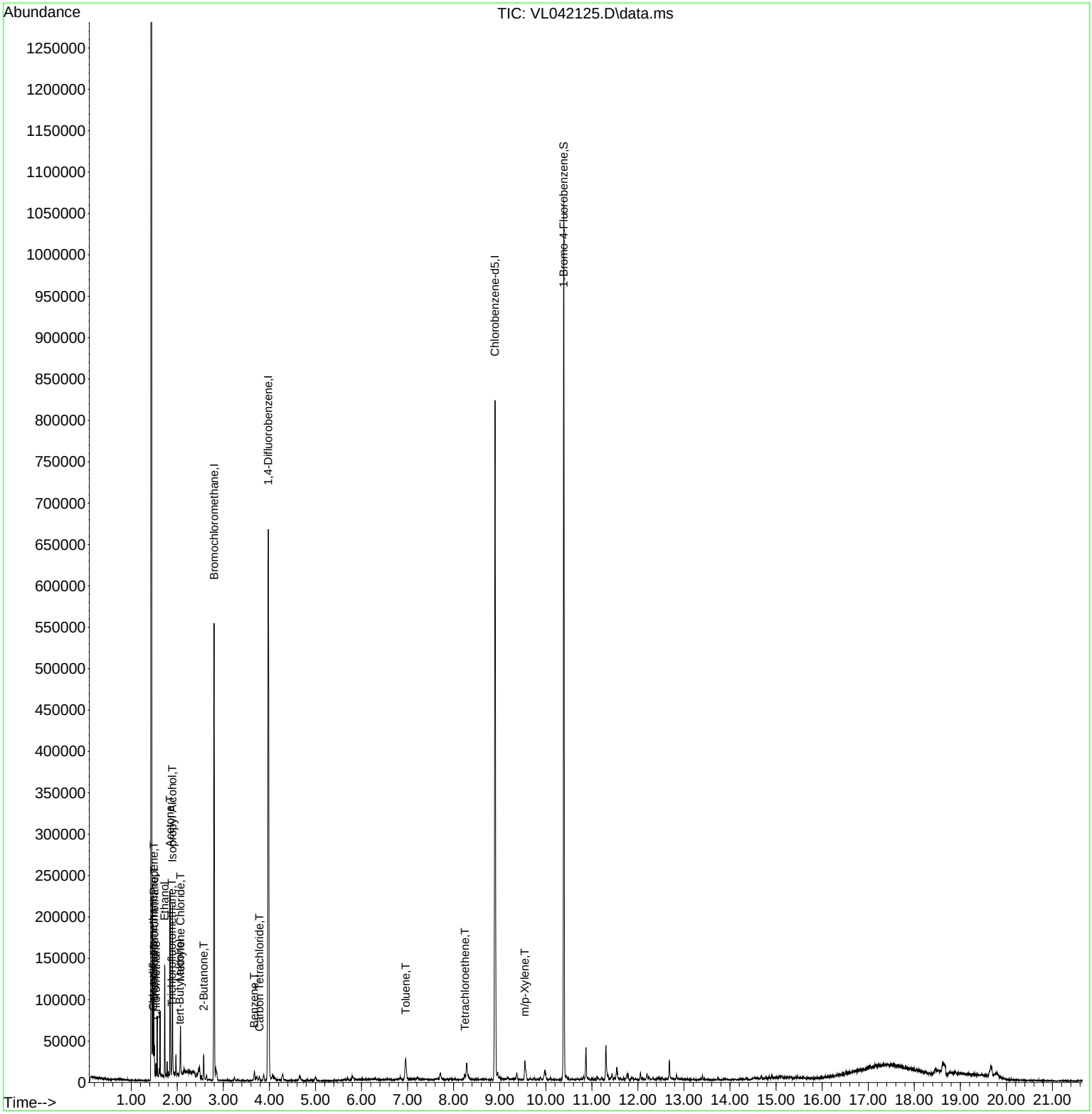
(#) = qualifier out of range (m) = manual integration (+) = signals summed

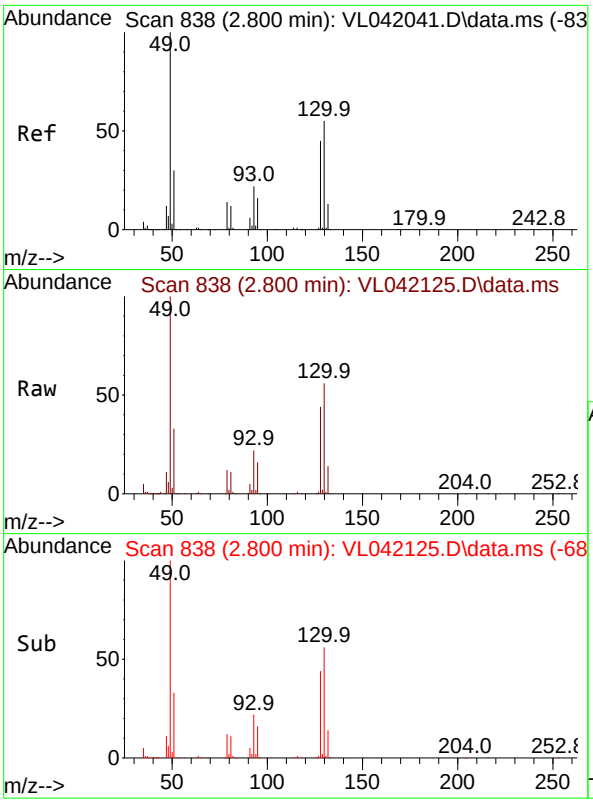
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042125.D
Acq On : 10 Mar 2025 15:10
Operator : SY/MD
Sample : Q1532-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:25:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

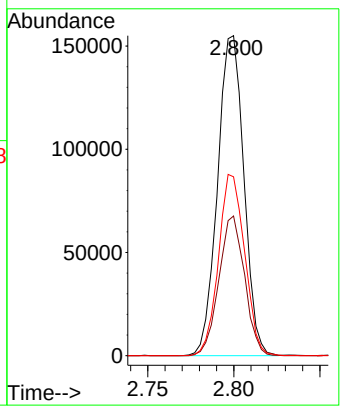




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 49 Resp: 16518

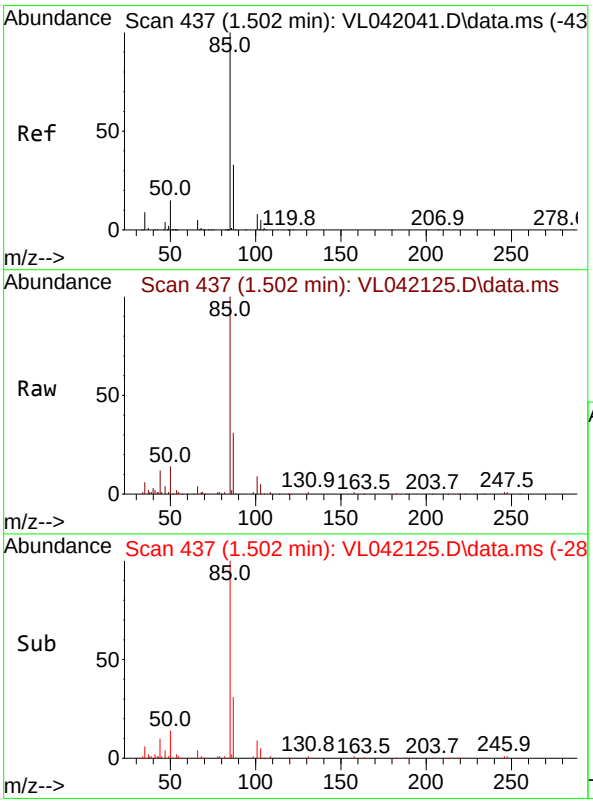
Ion	Ratio	Lower	Upper
49	100		
128	42.5	21.6	64.8
130	56.3	27.8	83.4



Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations
APPROVED

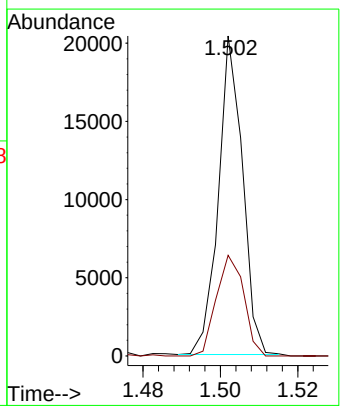
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

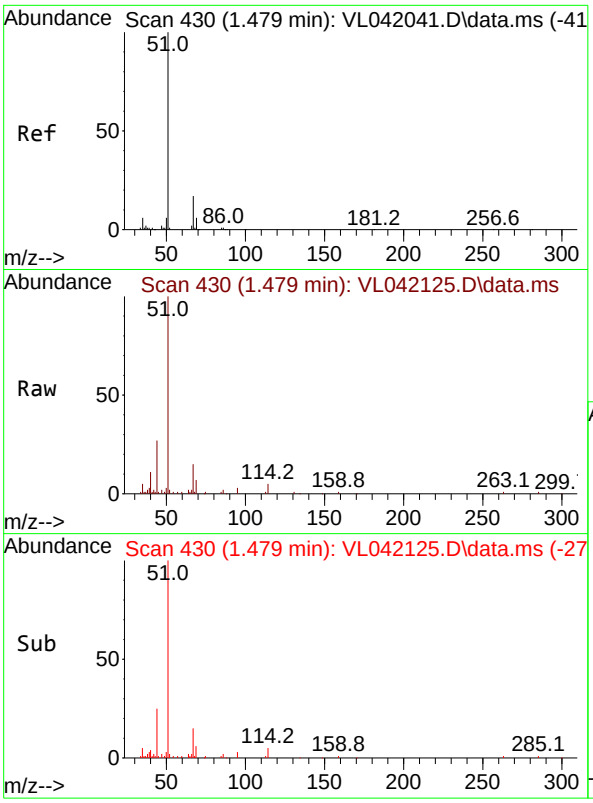


#2
Dichlorodifluoromethane
Concen: 0.513 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 85 Resp: 8811

Ion	Ratio	Lower	Upper
85	100		
87	31.6	26.4	39.6





#3
Chlorodifluoromethane
Concen: 0.223 ppbv m
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

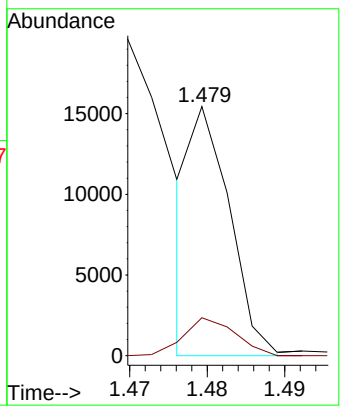
Tgt Ion: 51 Resp: 536

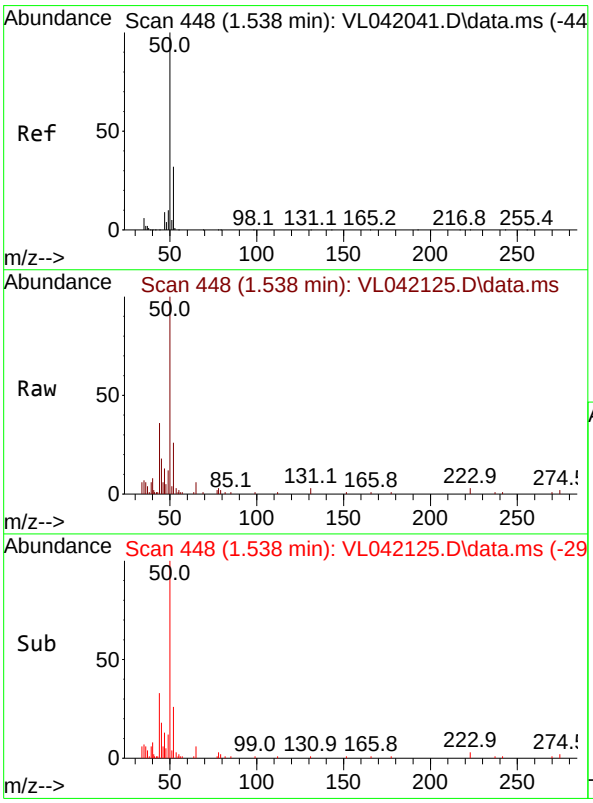
Ion	Ratio	Lower	Upper
51	100		
67	20.6	13.7	20.5

Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

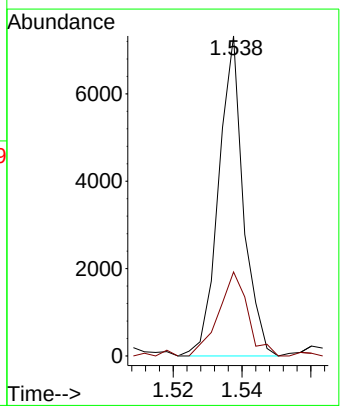


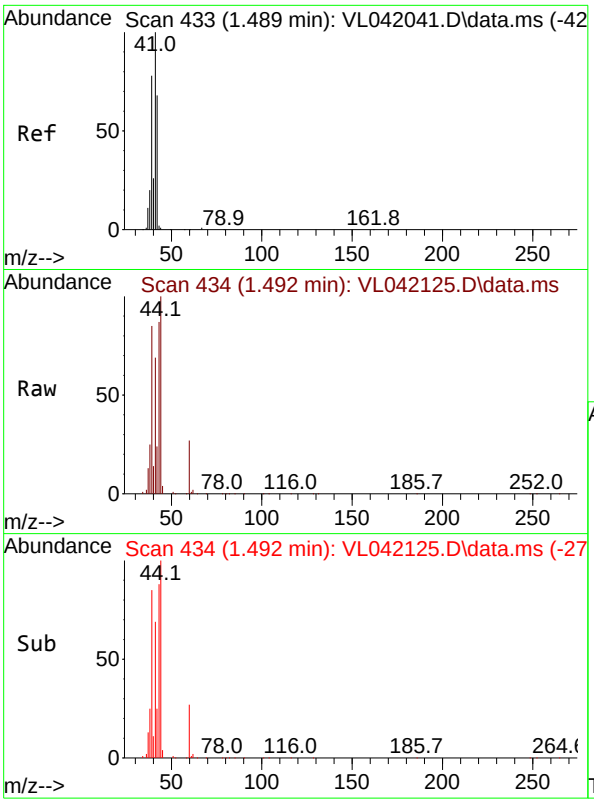


#4
Chloromethane
Concen: 0.577 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 50 Resp: 3667

Ion	Ratio	Lower	Upper
50	100		
52	26.2	25.4	38.0

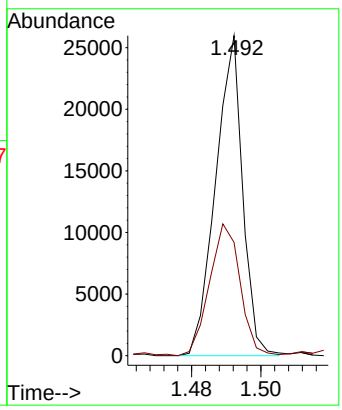




#9
Propene
Concen: 1.439 ppbv m
RT: 1.492 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 41 Resp: 1407

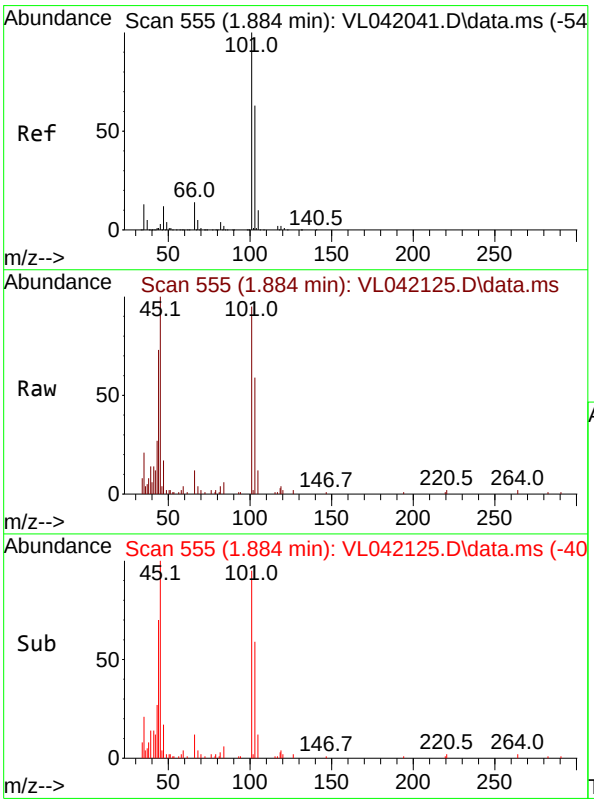
Ion	Ratio	Lower	Upper
41	100		
42	30.4	55.8	83.6



Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations
APPROVED

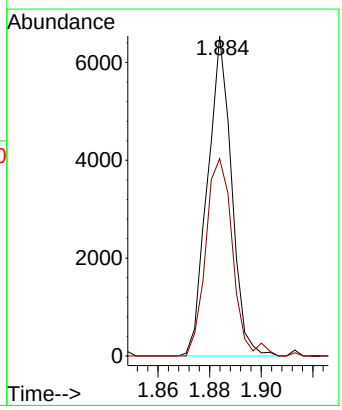
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

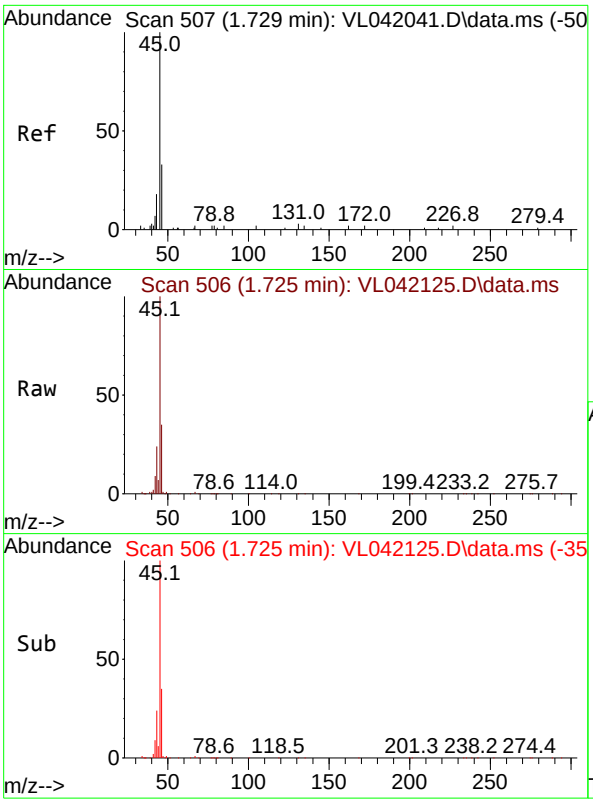


#11
Trichlorofluoromethane
Concen: 0.247 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion:101 Resp: 4245

Ion	Ratio	Lower	Upper
101	100		
103	61.6	50.6	75.8

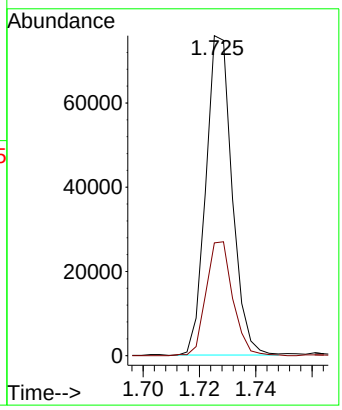




#13
Ethanol
Concen: 79.029 ppbv
RT: 1.725 min Scan# 5(
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 45 Resp: 4906(

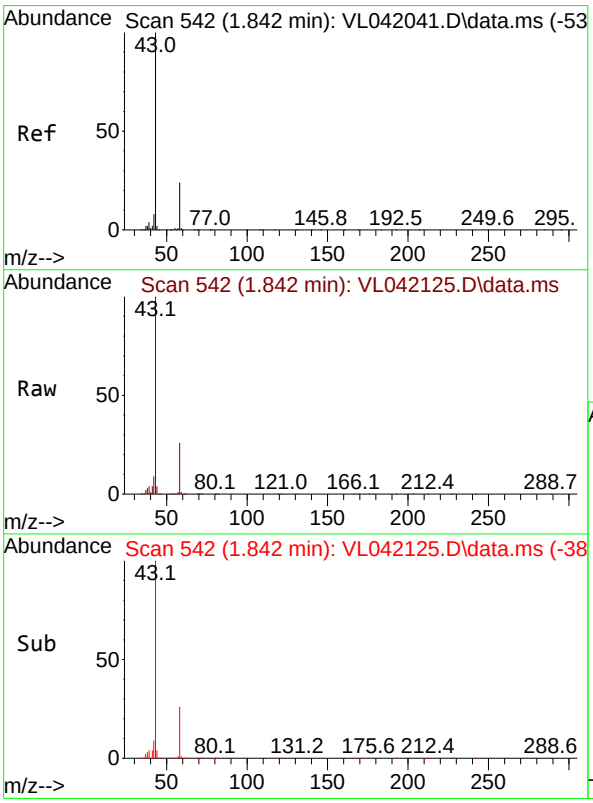
Ion	Ratio	Lower	Upper
45	100		
46	36.6	17.1	68.3



Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations
APPROVED

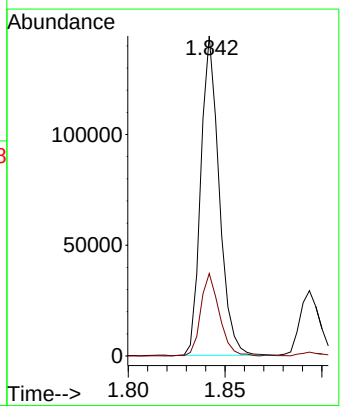
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

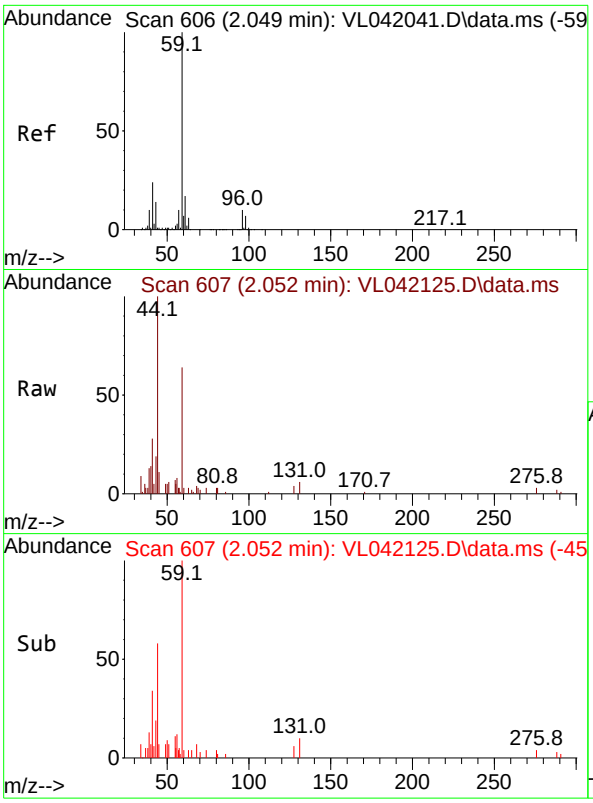


#15
Acetone
Concen: 6.534 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 43 Resp: 95309

Ion	Ratio	Lower	Upper
43	100		
58	26.2	20.7	31.1

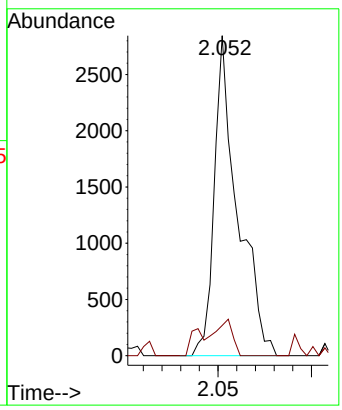




#17
tert-Butyl alcohol
Concen: 0.135 ppbv m
RT: 2.052 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 59 Resp: 246

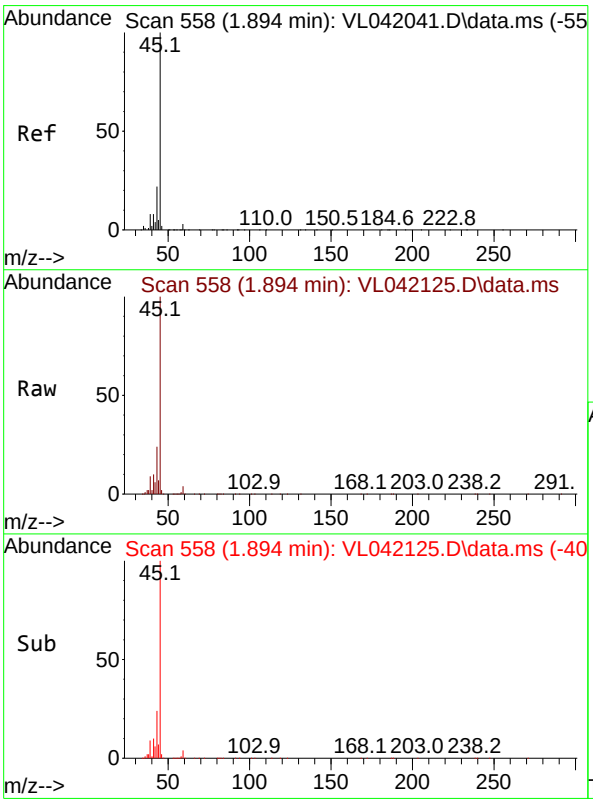
Ion	Ratio	Lower	Upper
59	100		
57	13.6	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations
APPROVED

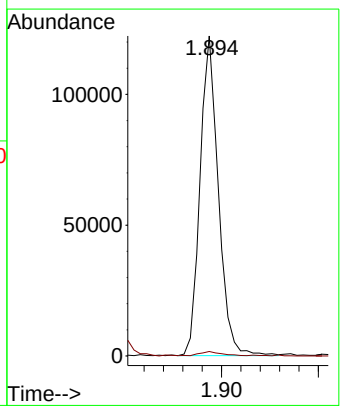
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

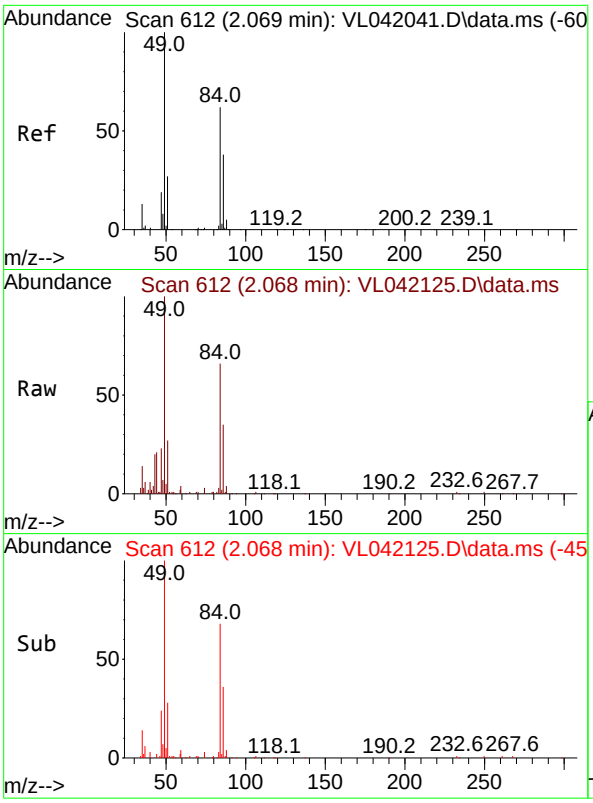


#19
Isopropyl Alcohol
Concen: 9.598 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 45 Resp: 80421

Ion	Ratio	Lower	Upper
45	100		
58	2.0	35.3	52.9#

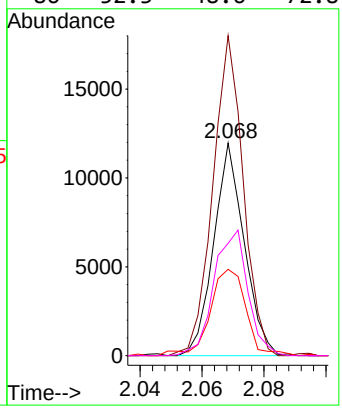




#20
Methylene Chloride
Concen: 1.485 ppbv
RT: 2.068 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 84 Resp: 819

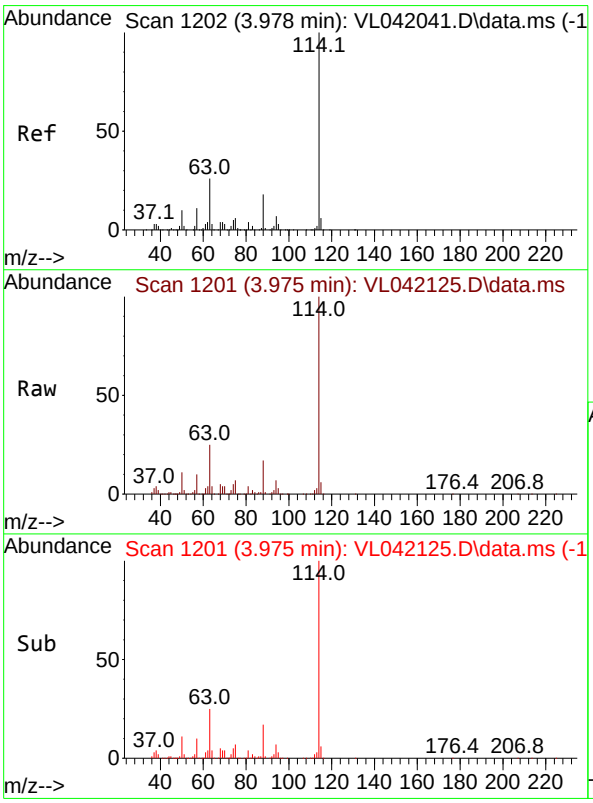
Ion	Ratio	Lower	Upper
84	100		
49	150.4	130.0	195.0
51	38.6	37.4	56.0
86	52.3	48.6	72.8



Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations
APPROVED

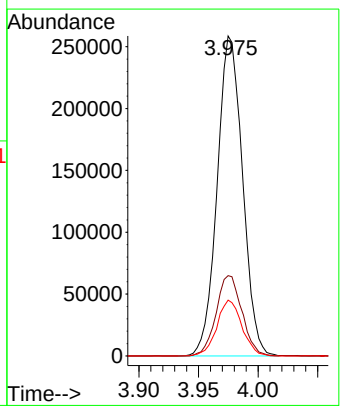
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

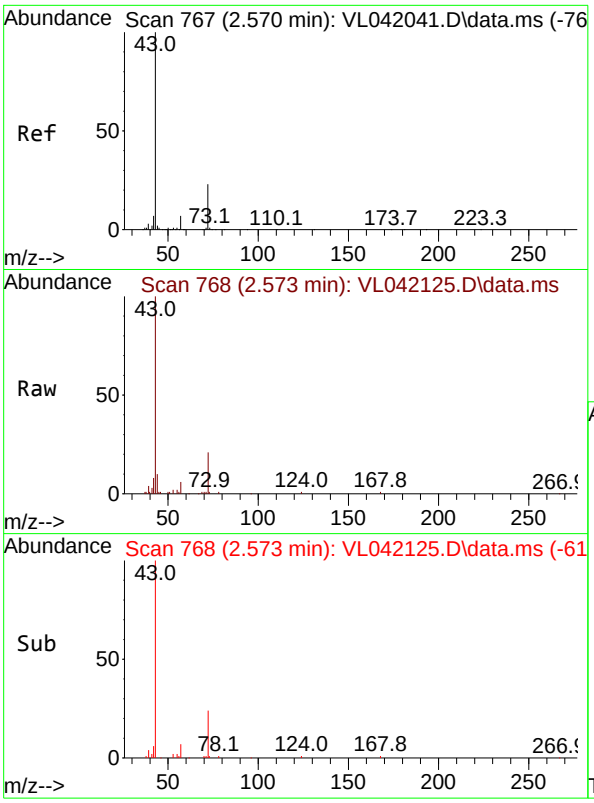


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion:114 Resp: 383076

Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.1	30.1
88	17.2	14.3	21.5

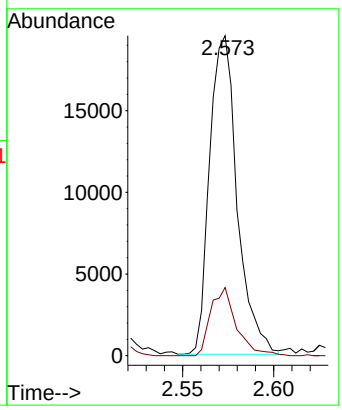




#34
2-Butanone
Concen: 0.689 ppbv
RT: 2.573 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 43 Resp: 2056

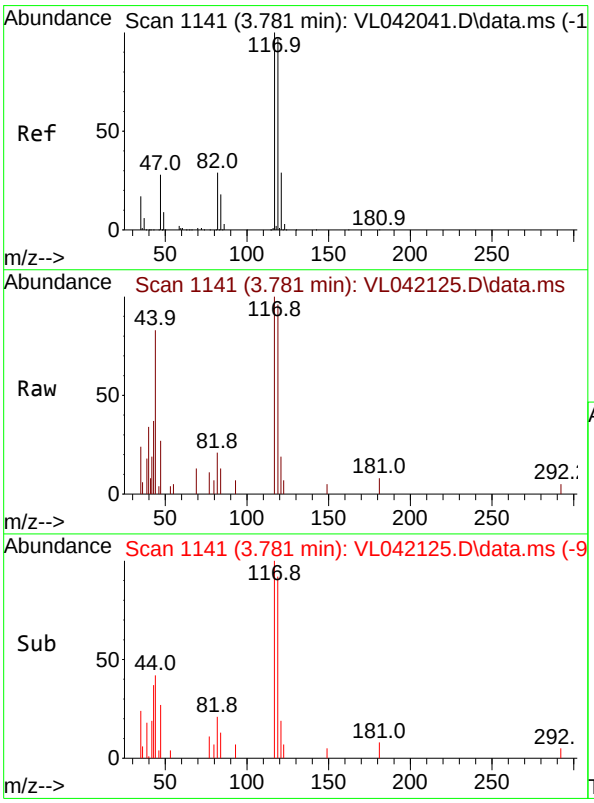
Ion	Ratio	Lower	Upper
43	100		
72	19.9	18.5	27.7



Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations
APPROVED

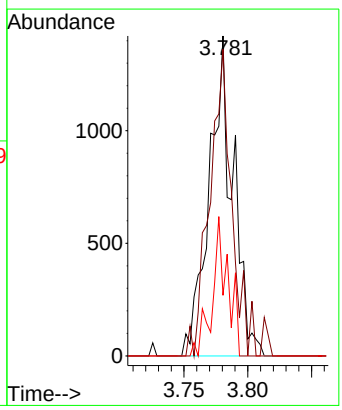
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

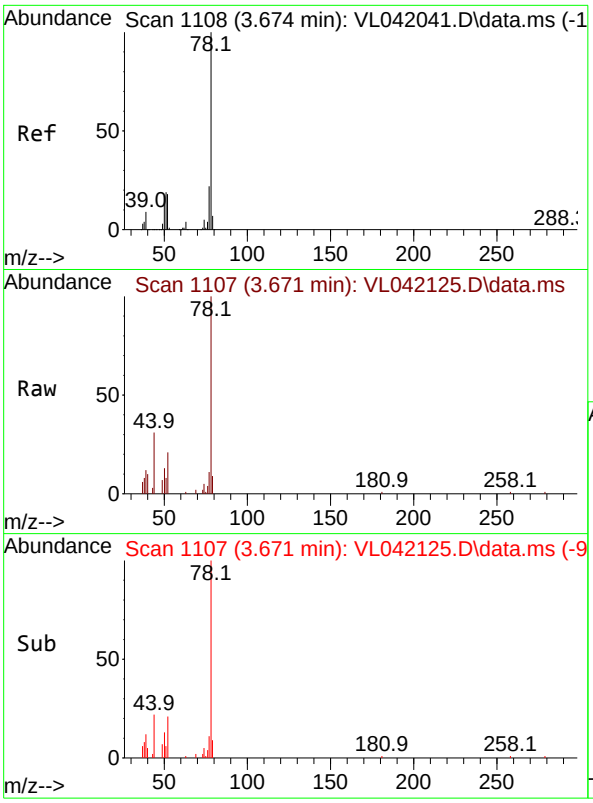


#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 3.781 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion:117 Resp: 1856

Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.8	116.8
121	18.9	23.4	35.0#

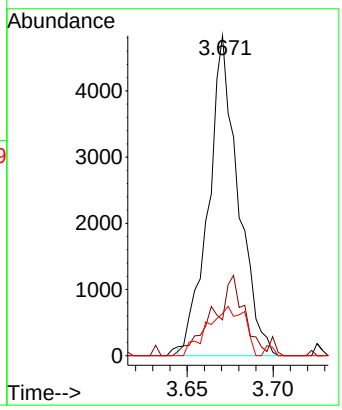




#36
Benzene
Concen: 0.145 ppbv
RT: 3.671 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 78 Resp: 581

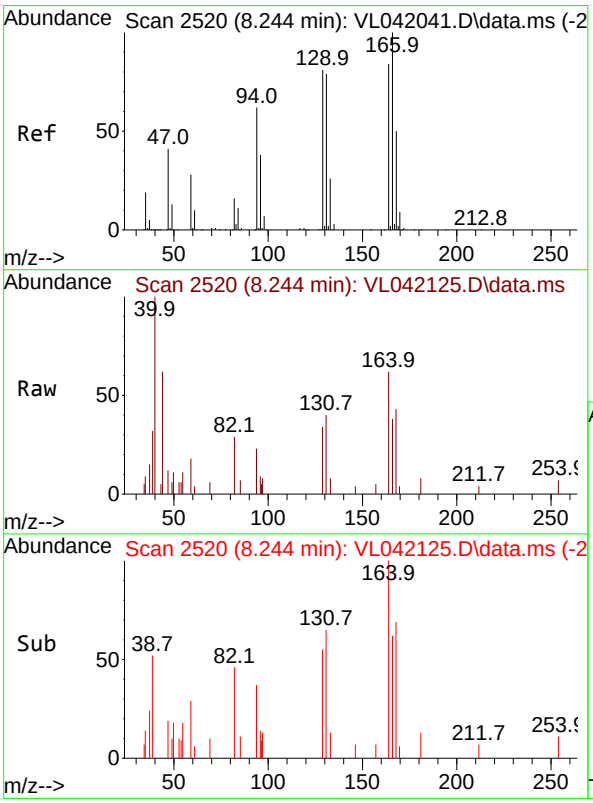
Ion	Ratio	Lower	Upper
78	100		
77	10.1	17.7	26.5#
50	13.1	13.9	20.9#



Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations
APPROVED

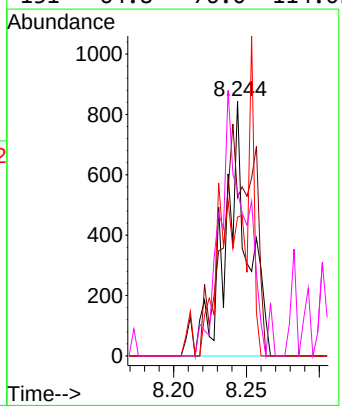
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

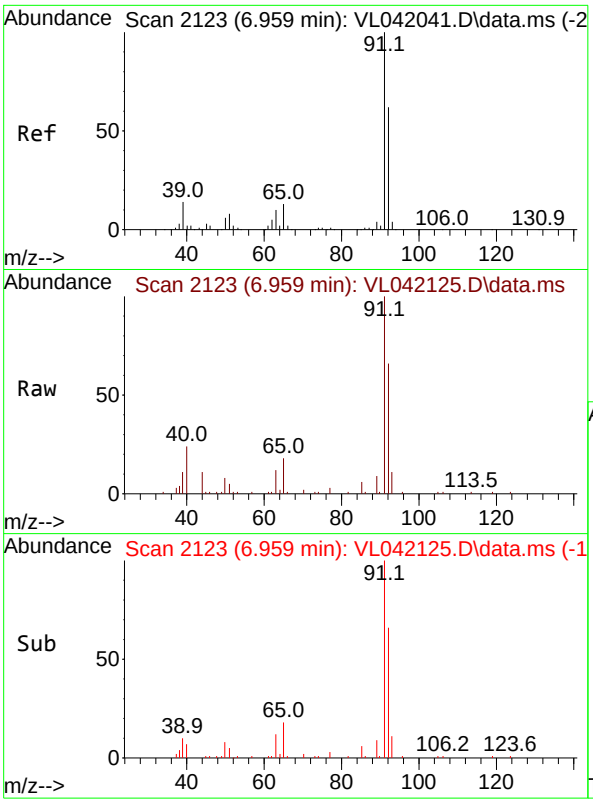


#52
Tetrachloroethene
Concen: 0.068 ppbv m
RT: 8.244 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion:164 Resp: 935

Ion	Ratio	Lower	Upper
164	100		
166	62.1	95.7	143.5#
129	54.5	77.1	115.7#
131	64.8	76.0	114.0#





#53
Toluene
Concen: 0.378 ppbv
RT: 6.959 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

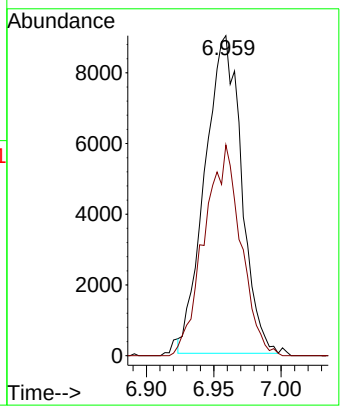
Tgt Ion: 91 Resp: 1694

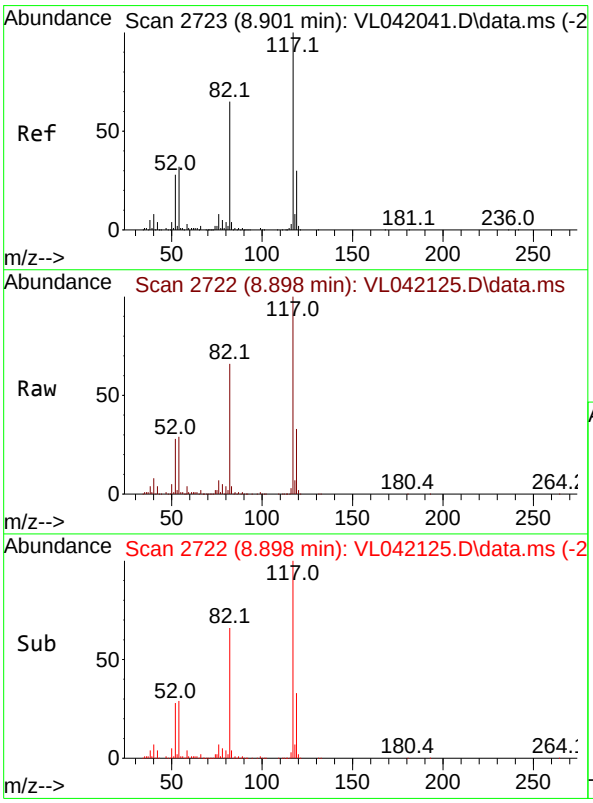
Ion	Ratio	Lower	Upper
91	100		
92	66.4	49.0	73.6

Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

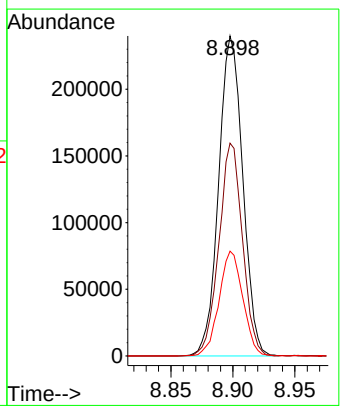


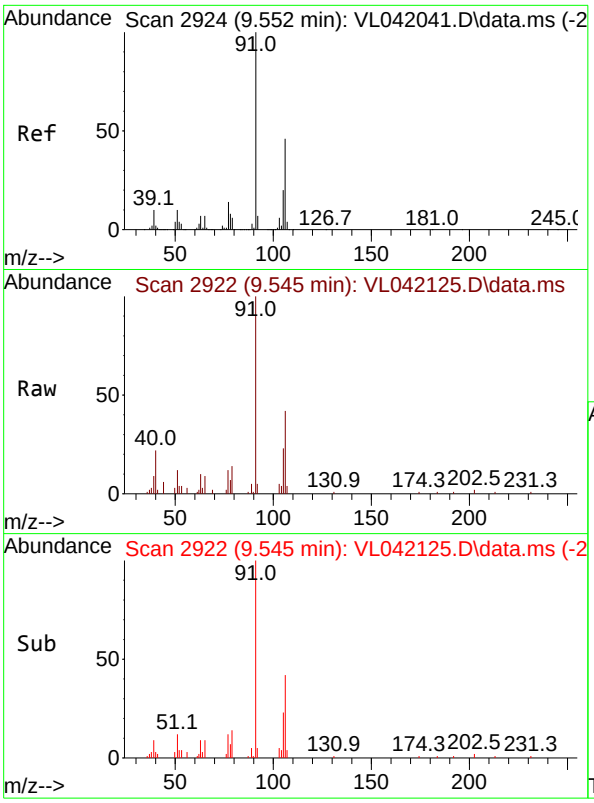


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion:117 Resp: 325600

Ion	Ratio	Lower	Upper
117	100		
82	65.0	55.0	82.6
119	32.4	25.9	38.9





#59
m/p-Xylene
Concen: 0.274 ppbv m
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

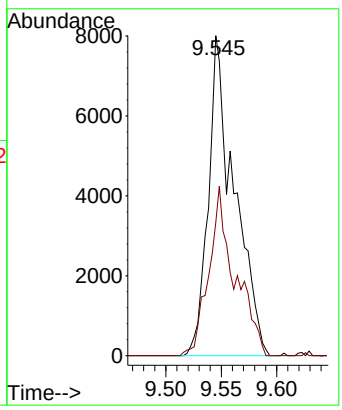
Tgt Ion: 91 Resp: 1307

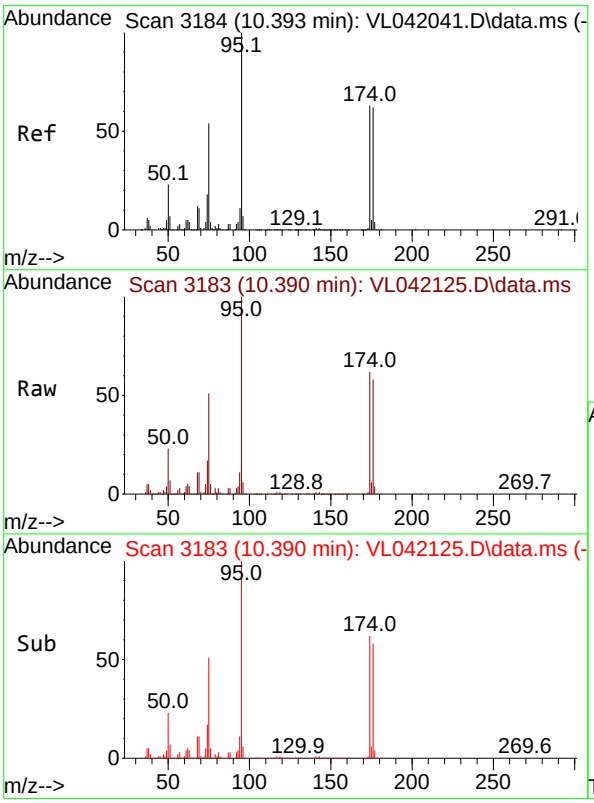
Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

Instrument :
MSVOA_L
ClientSampleId :
3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

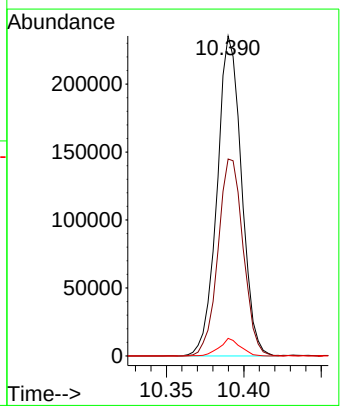




#68
1-Bromo-4-Fluorobenzene
Concen: 10.288 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 95 Resp: 257724

Ion	Ratio	Lower	Upper
95	100		
174	63.7	51.8	77.6
175	4.7	3.9	5.9



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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	4	SDG No.:	Q1532
Lab Sample ID:	Q1532-04	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
VL042127.D	1		03/10/25 16:15	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.51	2.52		1.04	2.47	ug/m3
74-87-3	Chloromethane	0.57	1.18		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	0.26	1.46	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	5.80	13.8		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	3.40	11.8		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	0.55	1.62		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	0.15	0.48	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	0.44	1.66	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:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	4	SDG No.:	Q1532
Lab Sample ID:	Q1532-04	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
VL042127.D	1		03/10/25 16:15	VL031025

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	0.060	0.41		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	0.31	1.35	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	0.43	1.52	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	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	163000		2.8			
540-36-3	1,4-Difluorobenzene	380000		3.978			
3114-55-4	Chlorobenzene-d5	324000		8.901			

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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	03/06/25
Project:	36-12 37th St. Queens, NY	Date Received:	03/07/25
Client Sample ID:	4	SDG No.:	Q1532
Lab Sample ID:	Q1532-04	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
VL042127.D	1		03/10/25 16:15	VL031025

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\VL031025\
Data File : VL042127.D
Acq On : 10 Mar 2025 16:15
Operator : SY/MD
Sample : Q1532-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:26:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	162703	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	379717	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	323671	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	255866	10.275	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	8600	0.508	ppbv	98
3) Chlorodifluoromethane	1.483	51	5780m	0.244	ppbv	
4) Chloromethane	1.538	50	3589	0.574	ppbv	95
9) Propene	1.492	41	13301m	1.381	ppbv	
11) Trichlorofluoromethane	1.884	101	4374	0.258	ppbv	94
13) Ethanol	1.729	45	14167	23.166	ppbv	99
15) Acetone	1.845	43	82899	5.770	ppbv	98
17) tert-Butyl alcohol	2.055	59	2587	0.144	ppbv #	86
19) Isopropyl Alcohol	1.897	45	14092	1.707	ppbv #	1
20) Methylene Chloride	2.072	84	18587	3.420	ppbv	97
26) Hexane	2.842	57	9963m	0.428	ppbv	
34) 2-Butanone	2.573	43	16205	0.548	ppbv	97
35) Carbon Tetrachloride	3.774	117	1880m	0.072	ppbv	
36) Benzene	3.677	78	6120	0.154	ppbv	96
52) Tetrachloroethene	8.247	164	872m	0.064	ppbv	
53) Toluene	6.965	91	19451	0.438	ppbv	96
59) m/p-Xylene	9.551	91	14475m	0.305	ppbv	

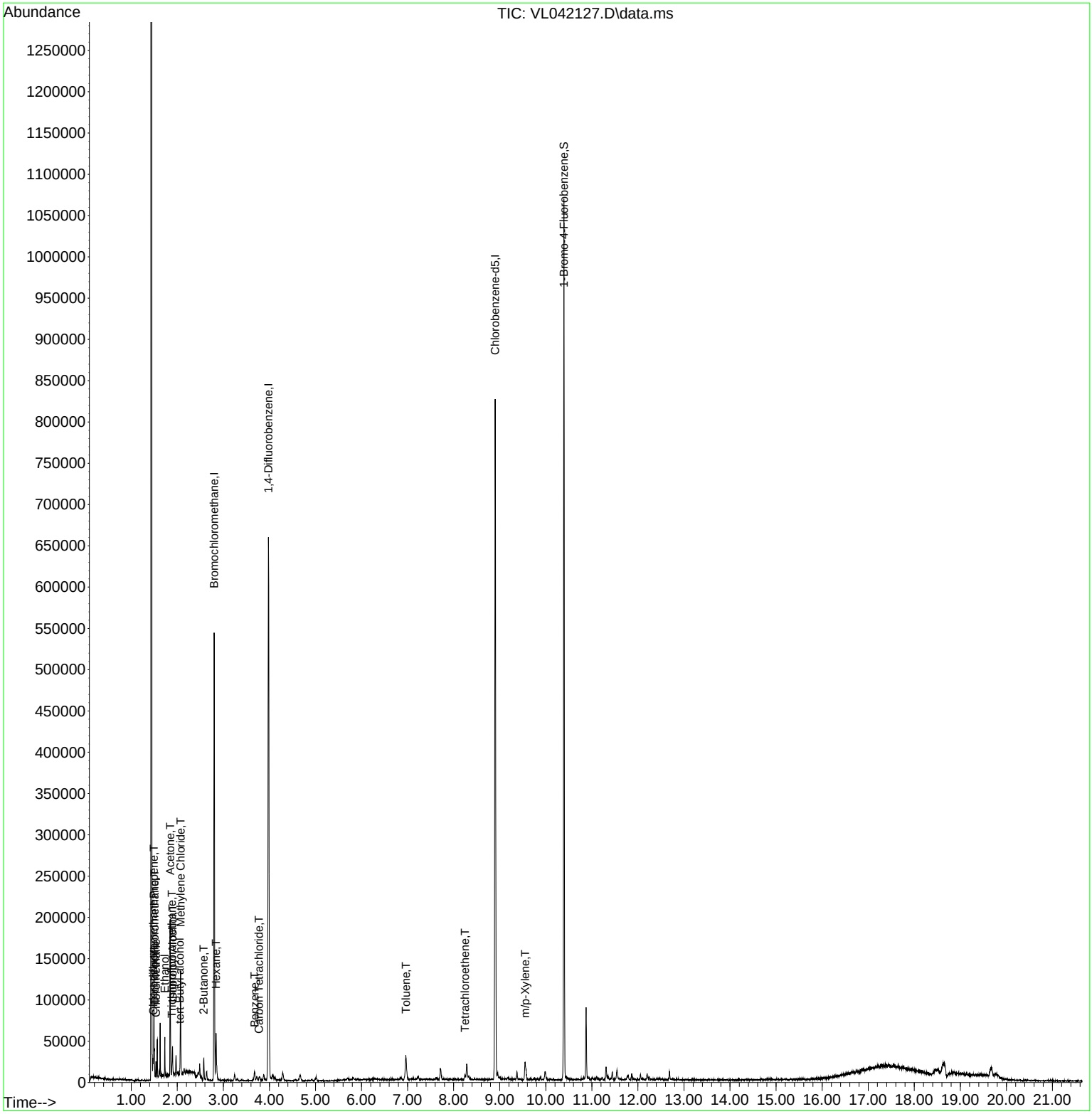
(#) = qualifier out of range (m) = manual integration (+) = signals summed

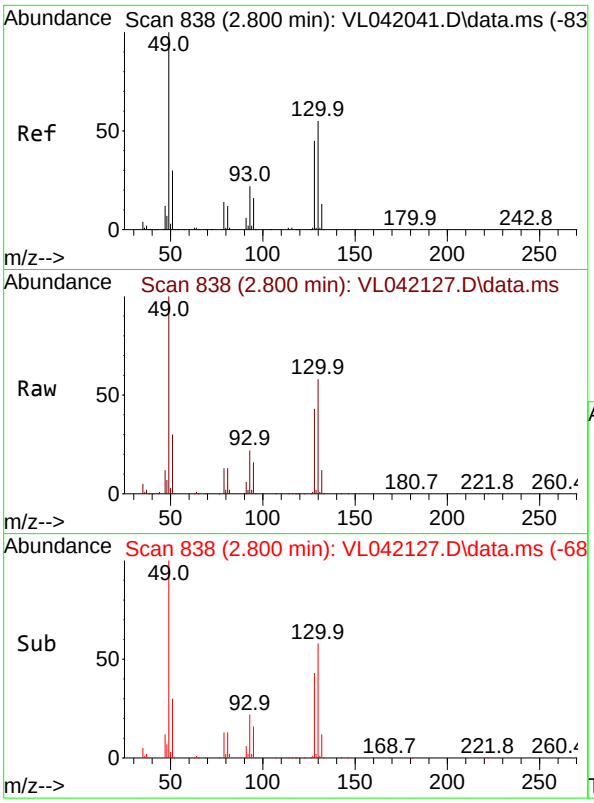
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042127.D
Acq On : 10 Mar 2025 16:15
Operator : SY/MD
Sample : Q1532-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:26:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

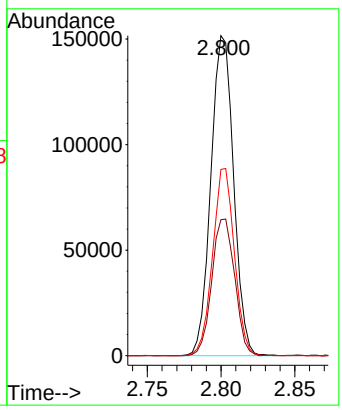




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 49 Resp: 16270

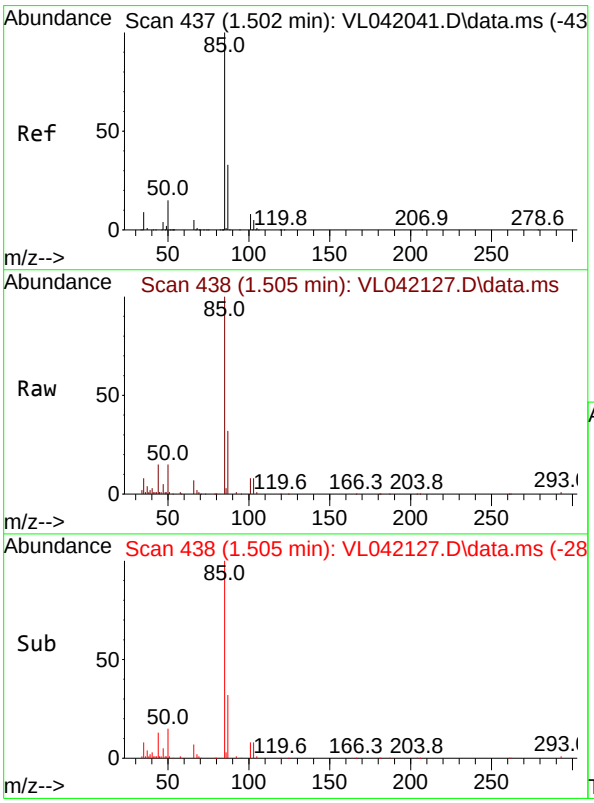
Ion	Ratio	Lower	Upper
49	100		
128	43.0	21.6	64.8
130	56.1	27.8	83.4



Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations
APPROVED

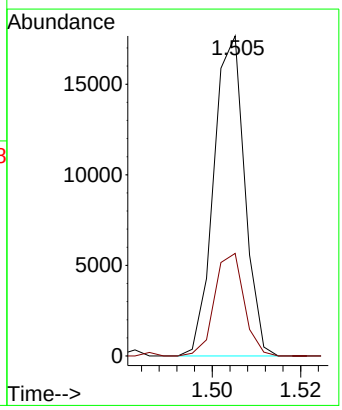
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

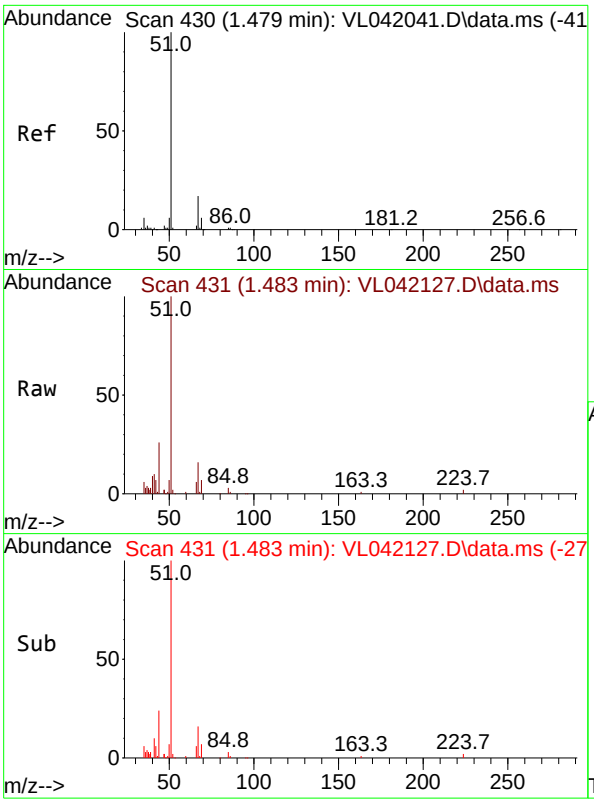


#2
Dichlorodifluoromethane
Concen: 0.508 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 85 Resp: 8600

Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.4	39.6

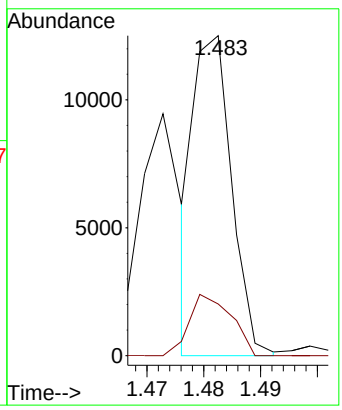




#3
Chlorodifluoromethane
Concen: 0.244 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 51 Resp: 578

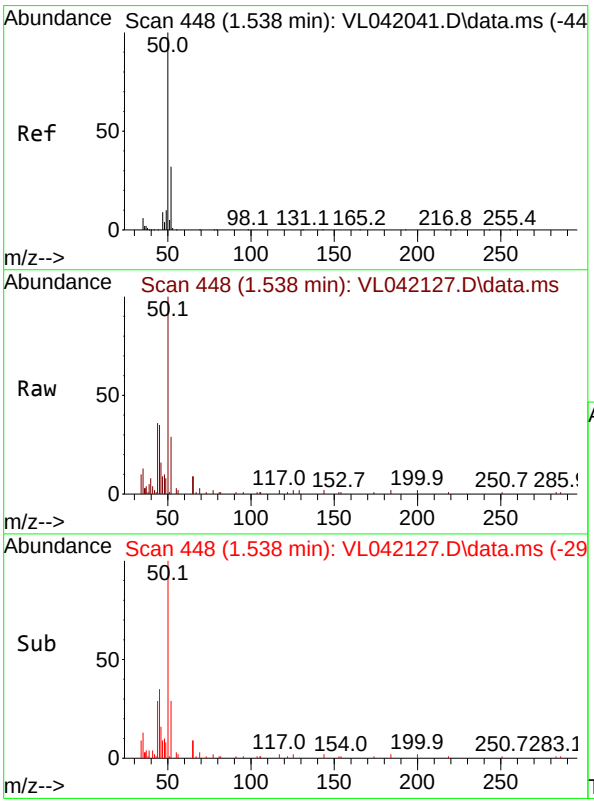
Ion	Ratio	Lower	Upper
51	100		
67	2.1	13.7	20.5#



Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations
APPROVED

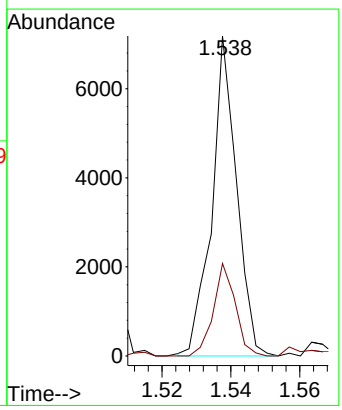
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

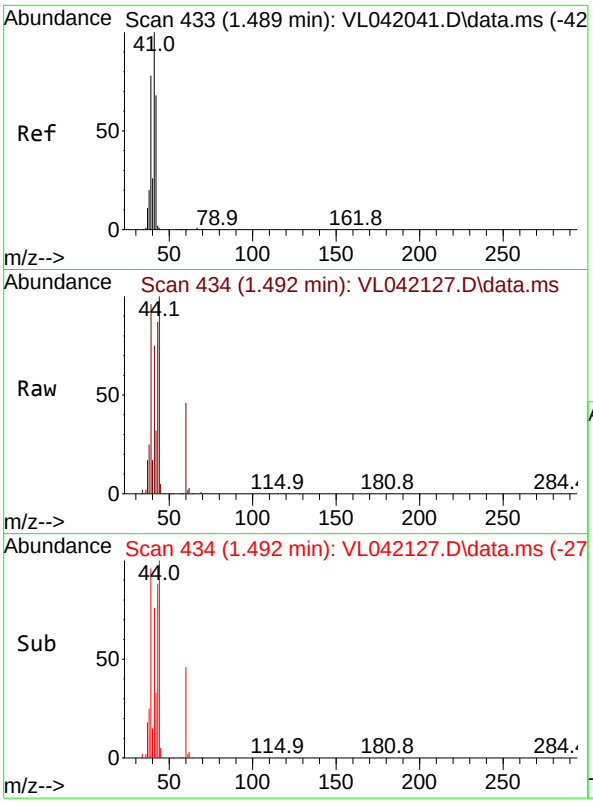


#4
Chloromethane
Concen: 0.574 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 50 Resp: 3589

Ion	Ratio	Lower	Upper
50	100		
52	28.9	25.4	38.0

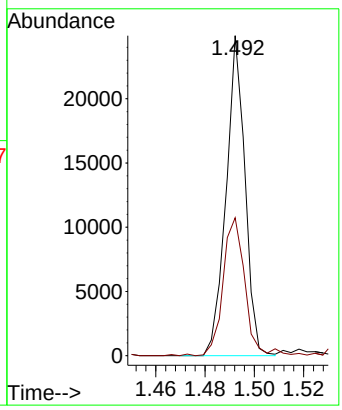




#9
Propene
Concen: 1.381 ppbv m
RT: 1.492 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 41 Resp: 1330

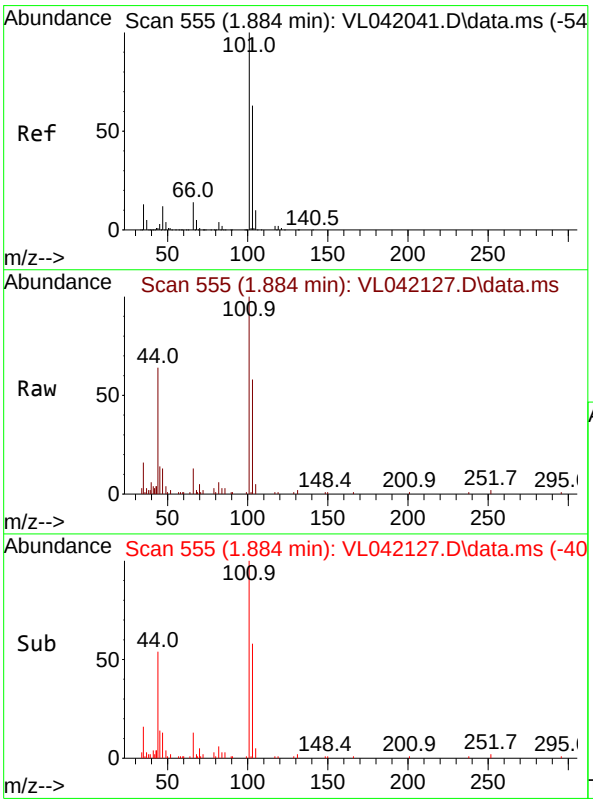
Ion	Ratio	Lower	Upper
41	100		
42	7.7	55.8	83.6



Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations
APPROVED

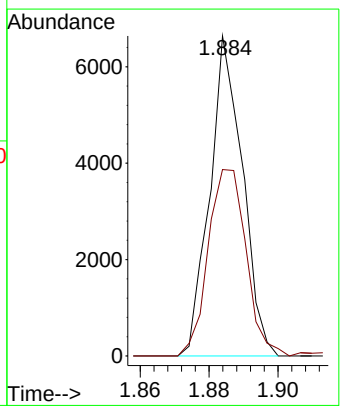
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

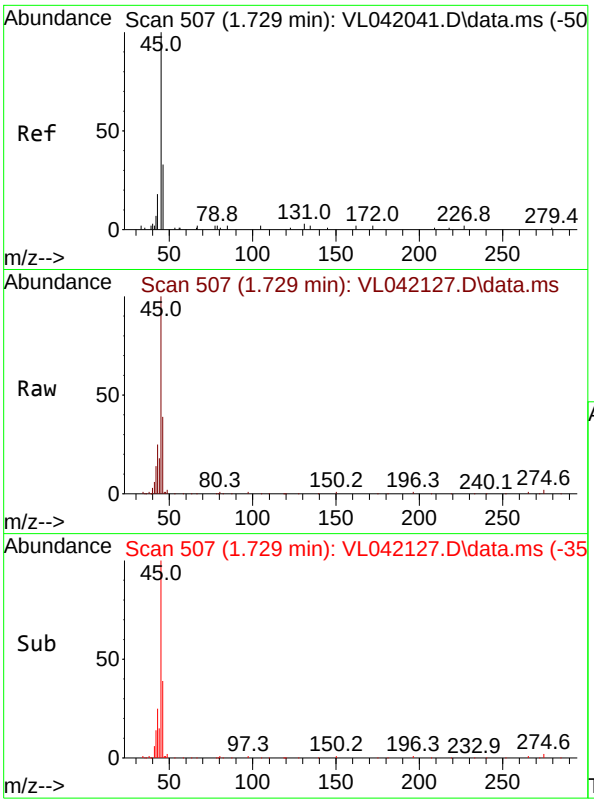


#11
Trichlorofluoromethane
Concen: 0.258 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion:101 Resp: 4374

Ion	Ratio	Lower	Upper
101	100		
103	58.3	50.6	75.8

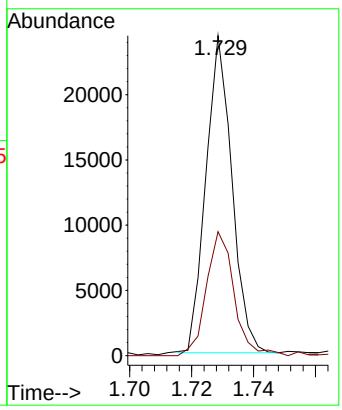




#13
Ethanol
Concen: 23.166 ppbv
RT: 1.729 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 45 Resp: 1416

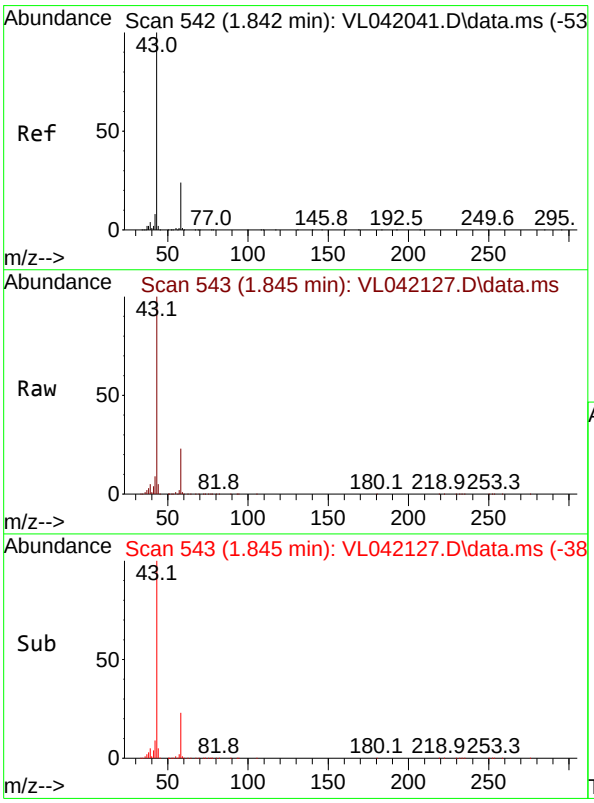
Ion	Ratio	Lower	Upper
45	100		
46	43.5	17.1	68.3



Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations
APPROVED

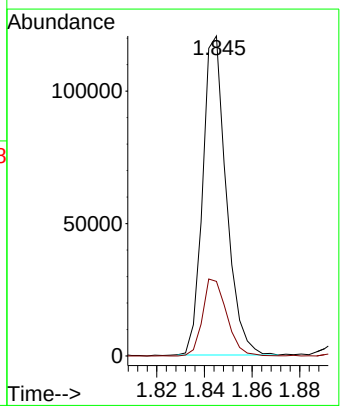
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

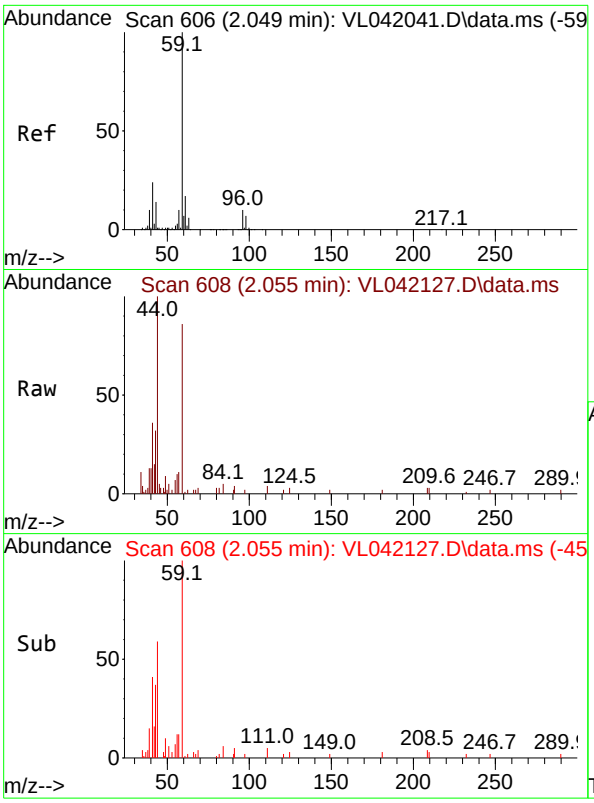


#15
Acetone
Concen: 5.770 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 43 Resp: 82899

Ion	Ratio	Lower	Upper
43	100		
58	24.9	20.7	31.1

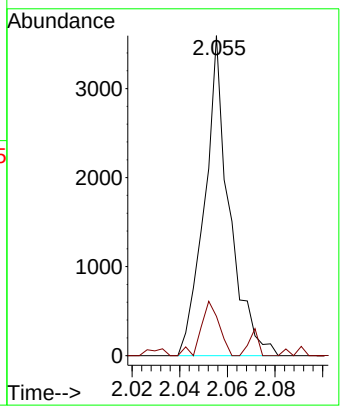




#17
tert-Butyl alcohol
Concen: 0.144 ppbv
RT: 2.055 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 59 Resp: 258

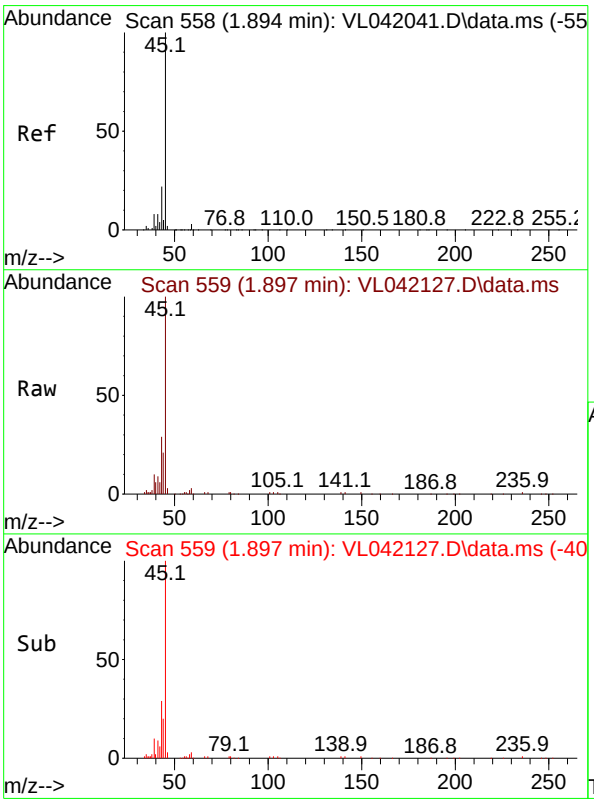
Ion	Ratio	Lower	Upper
59	100		
57	17.1	9.3	13.9#



Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations
APPROVED

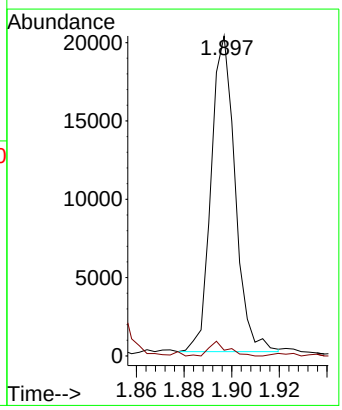
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

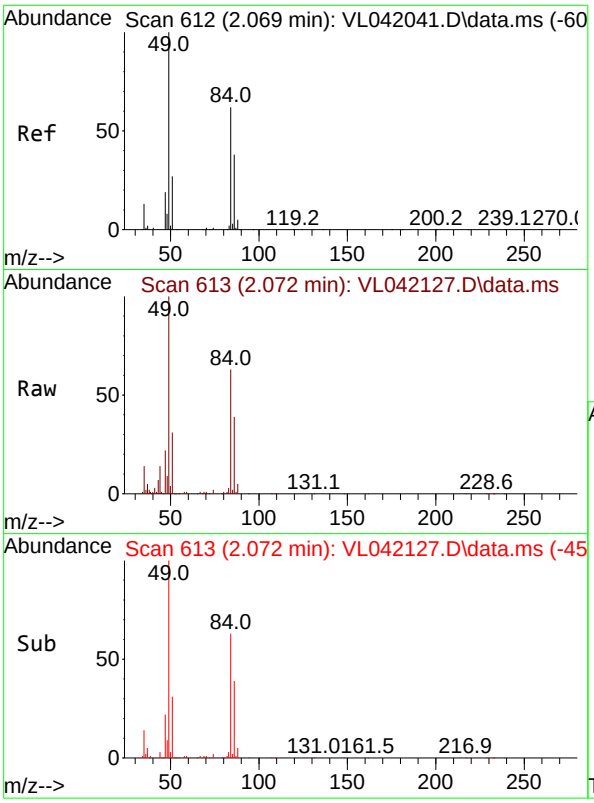


#19
Isopropyl Alcohol
Concen: 1.707 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 45 Resp: 14092

Ion	Ratio	Lower	Upper
45	100		
58	146.3	35.3	52.9#

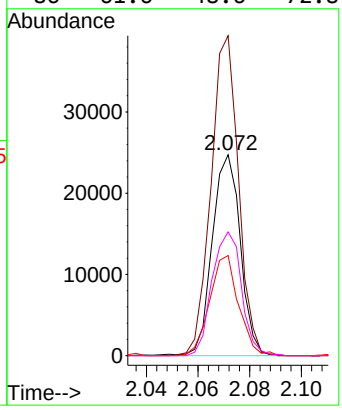




#20
Methylene Chloride
Concen: 3.420 ppbv
RT: 2.072 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 84 Resp: 1858

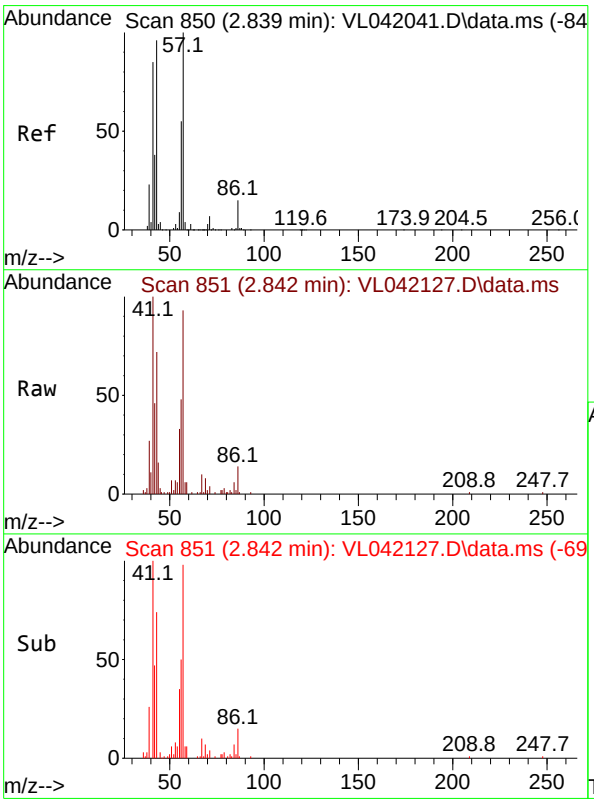
Ion	Ratio	Lower	Upper
84	100		
49	158.6	130.0	195.0
51	49.8	37.4	56.0
86	61.6	48.6	72.8



Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations
APPROVED

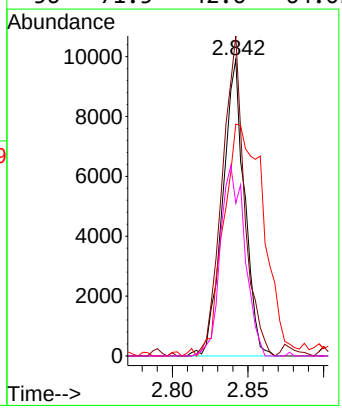
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

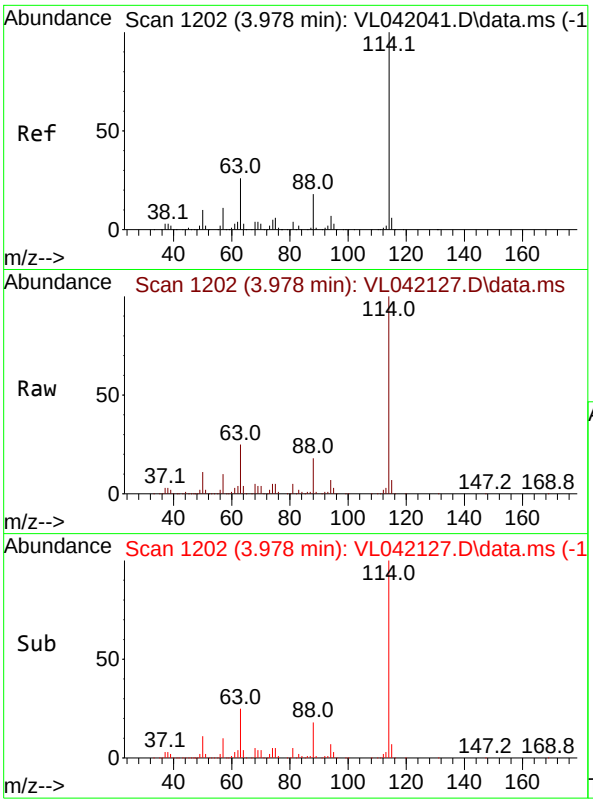


#26
Hexane
Concen: 0.428 ppbv m
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 57 Resp: 9963

Ion	Ratio	Lower	Upper
57	100		
41	113.1	70.6	106.0#
43	147.6	199.4	299.0#
56	71.5	42.6	64.0#

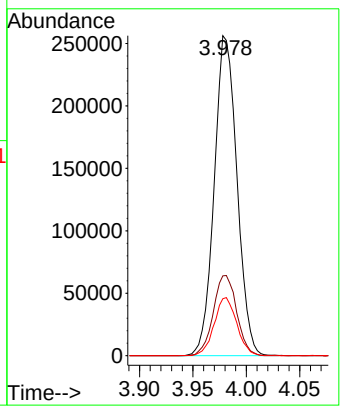




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion:114 Resp: 37971

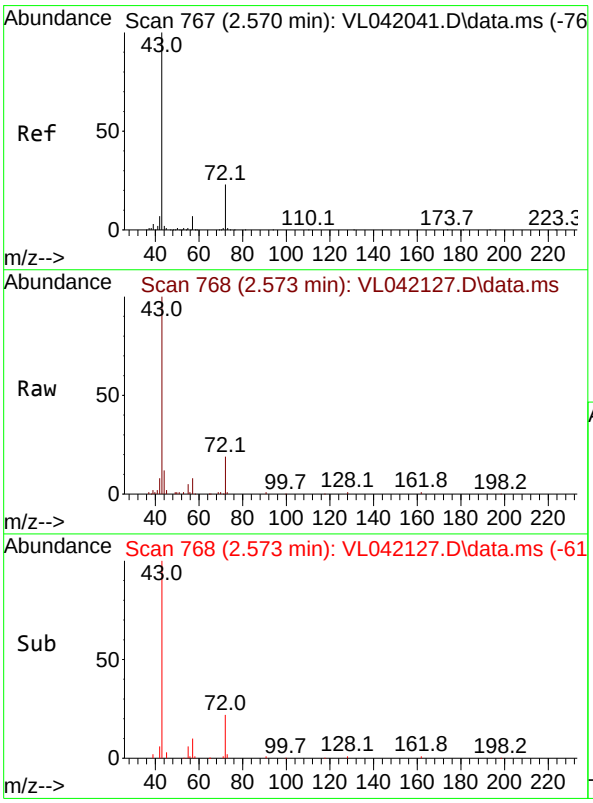
Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.1	30.1
88	18.1	14.3	21.5



Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations
APPROVED

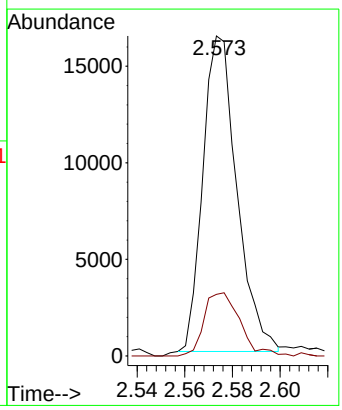
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

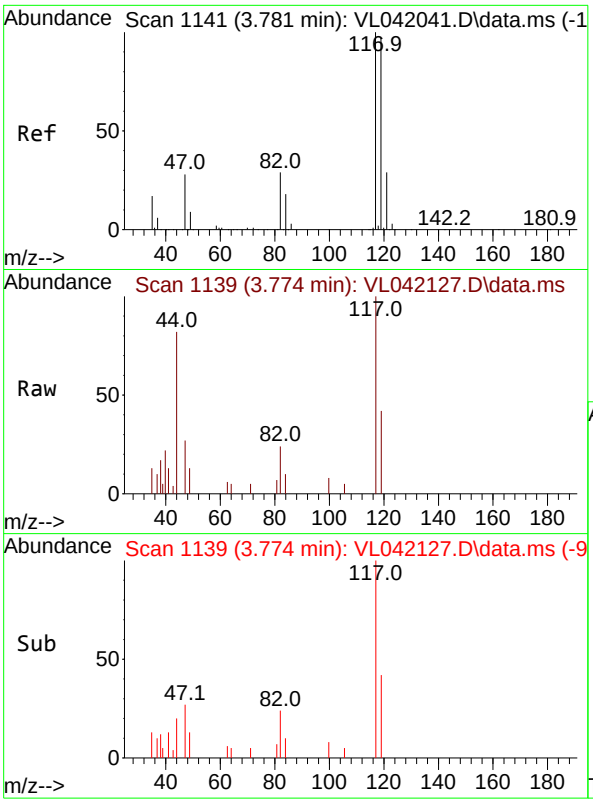


#34
2-Butanone
Concen: 0.548 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 43 Resp: 16205

Ion	Ratio	Lower	Upper
43	100		
72	21.5	18.5	27.7

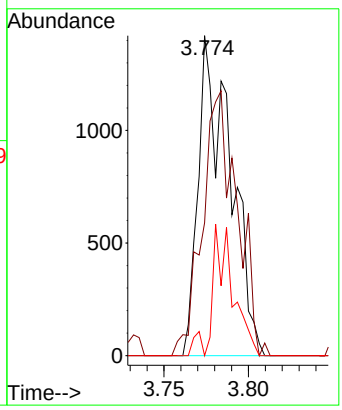




#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 3.774 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion:117 Resp: 188

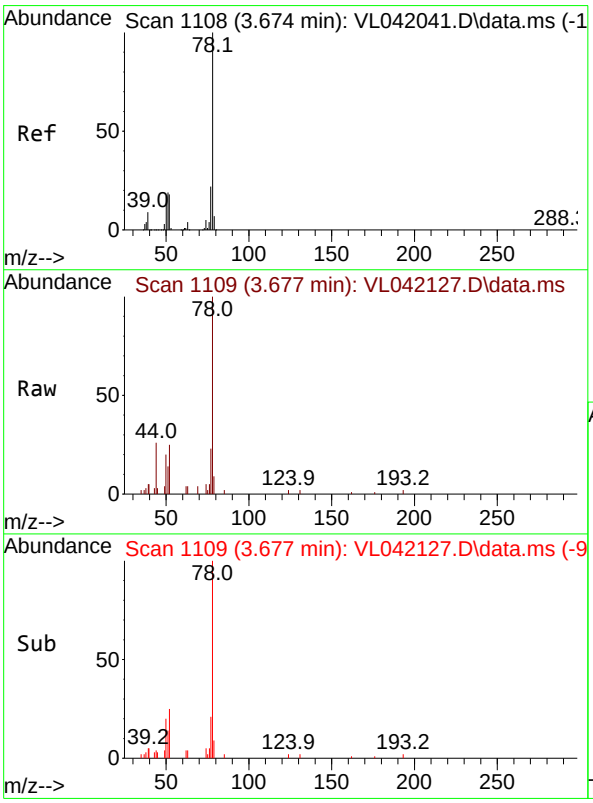
Ion	Ratio	Lower	Upper
117	100		
119	41.5	77.8	116.8#
121	0.0	23.4	35.0#



Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations
APPROVED

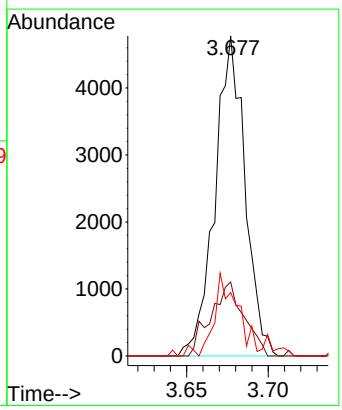
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

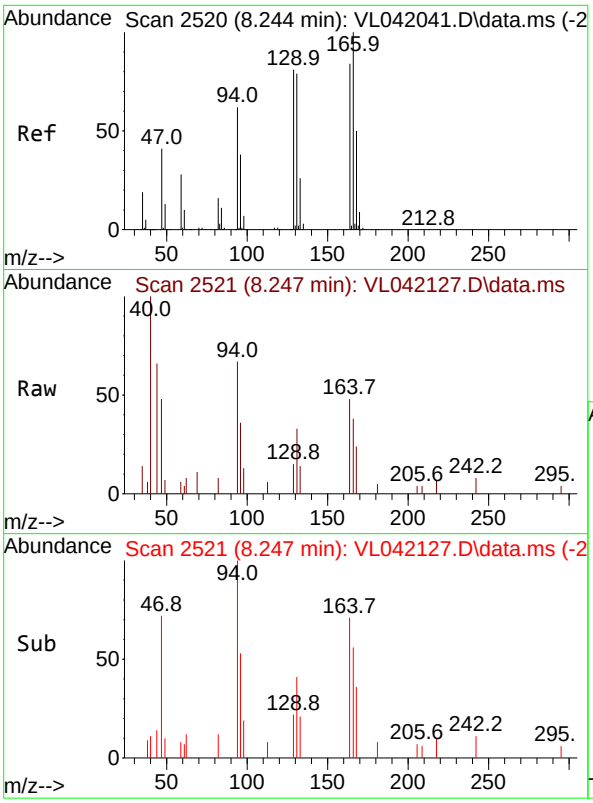


#36
Benzene
Concen: 0.154 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 78 Resp: 6120

Ion	Ratio	Lower	Upper
78	100		
77	23.1	17.7	26.5
50	19.8	13.9	20.9

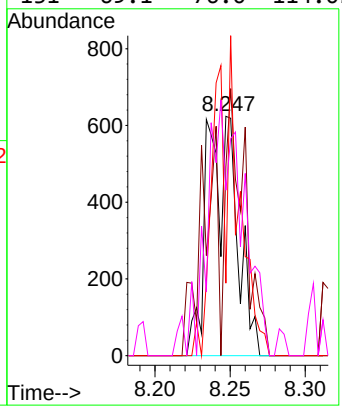




#52
Tetrachloroethene
Concen: 0.064 ppbv m
RT: 8.247 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion:164 Resp: 87

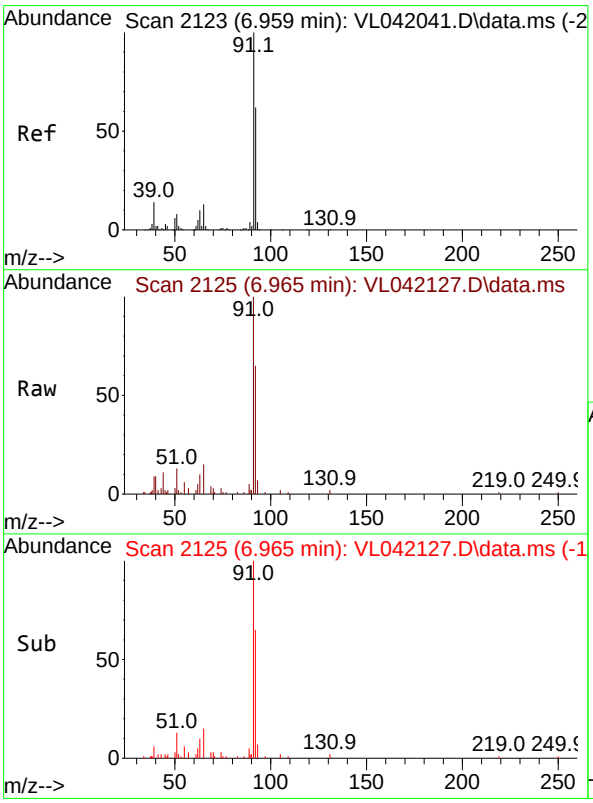
Ion	Ratio	Lower	Upper
164	100		
166	79.0	95.7	143.5#
129	30.3	77.1	115.7#
131	69.1	76.0	114.0#



Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations
APPROVED

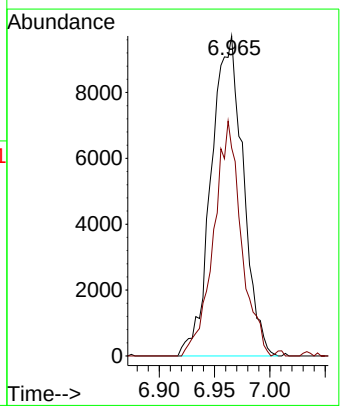
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

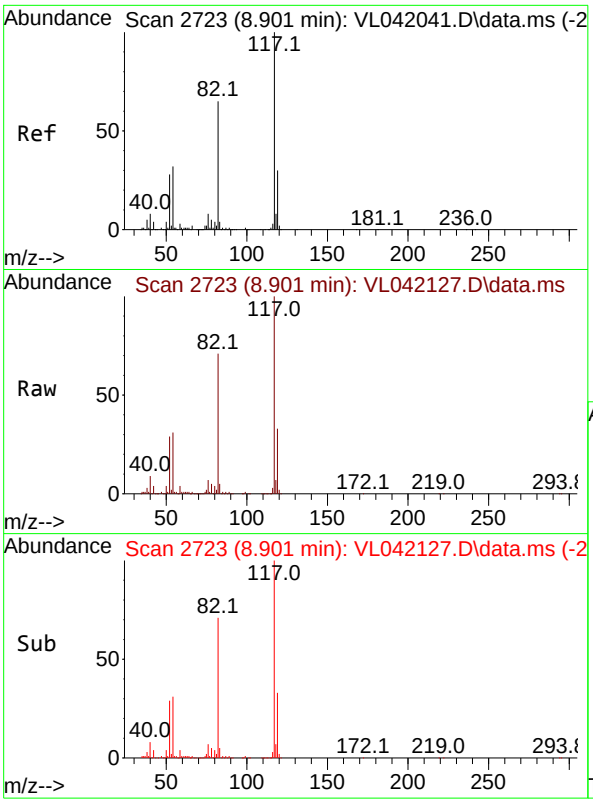


#53
Toluene
Concen: 0.438 ppbv
RT: 6.965 min Scan# 2125
Delta R.T. 0.006 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 91 Resp: 19451

Ion	Ratio	Lower	Upper
91	100		
92	64.4	49.0	73.6

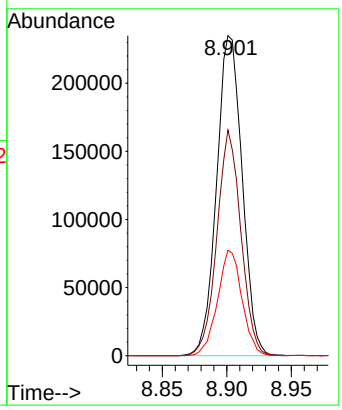




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion:117 Resp: 32367

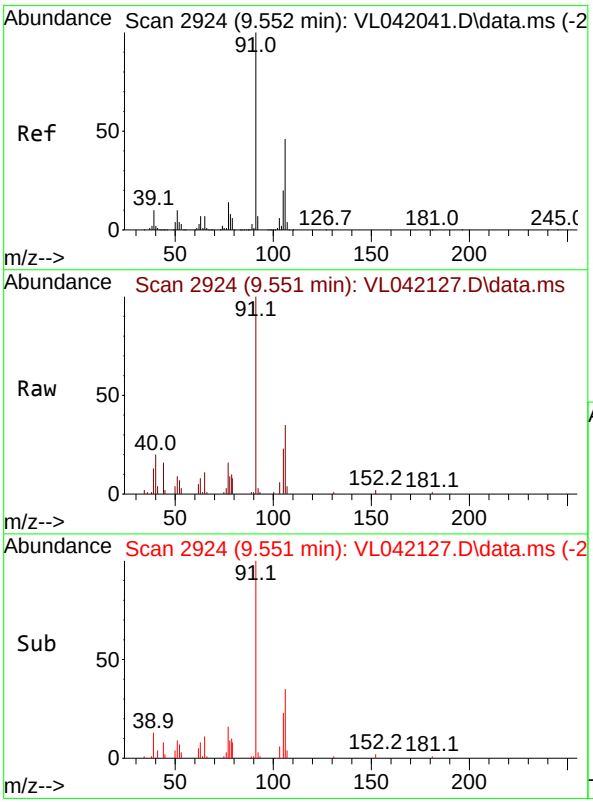
Ion	Ratio	Lower	Upper
117	100		
82	66.2	55.0	82.6
119	31.6	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations
APPROVED

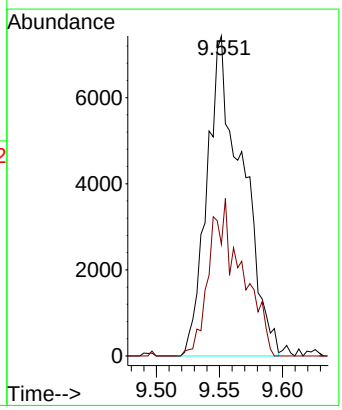
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

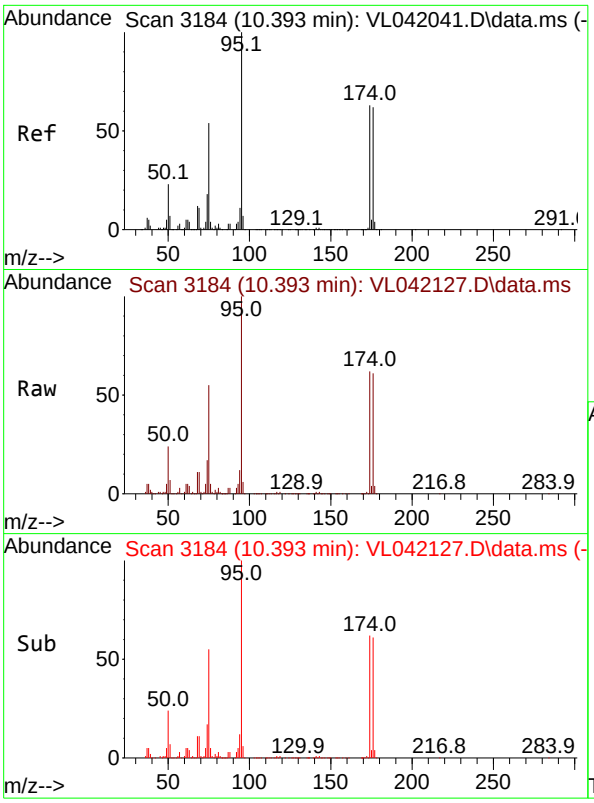


#59
m/p-Xylene
Concen: 0.305 ppbv m
RT: 9.551 min Scan# 2924
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 91 Resp: 14475

Ion	Ratio	Lower	Upper
91	100		
106	45.8	0.0	0.0#

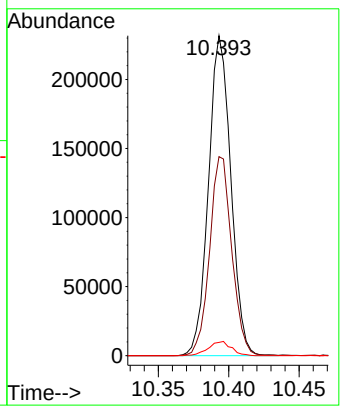




#68
1-Bromo-4-Fluorobenzene
Concen: 10.275 ppbv
RT: 10.393 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 95 Resp: 25586

Ion	Ratio	Lower	Upper
95	100		
174	61.8	51.8	77.6
175	4.6	3.9	5.9



Instrument :
MSVOA_L
ClientSampleId :
4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

CALIBRATION SUMMARY

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042046.D 0.1 =VL042045.D 0.5 =VL042044.D 1 =VL042043.D 2 =VL042042.D 10 =VL042041.D 15 =VL042047.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.109	1.084	1.091	0.943	0.973	1.040	7.31
3)		Chlorodifluoro...			1.493	1.566	1.535	1.311	1.362	1.453	7.67
4)		Chloromethane			0.438	0.398	0.399	0.344	0.344	0.385	10.53
5)	T	Vinyl Chloride	0.447	0.336	0.376	0.346	0.361	0.337	0.343	0.364	10.89
6)	T	Bromomethane			0.170	0.184	0.186	0.160	0.165	0.173	6.63
7)		Chloroethane			0.151	0.158	0.156	0.135	0.140	0.148	6.83
8)	T	Dichlorotetraf...			0.892	0.910	0.901	0.779	0.791	0.855	7.47
9)	T	Propene			0.614	0.630	0.636	0.522	0.558	0.592	8.47
10)	T	Heptane			1.971	1.946	1.960	1.662	1.679	1.844	8.59
11)	T	Trichlorofluor...			1.056	1.122	1.119	0.944	0.968	1.042	7.98
12)	T	1,1,2-Trichlor...			0.919	0.902	0.865	0.697	0.773	0.831	11.28
13)		Ethanol			0.053	0.057	0.040	0.020	0.018	0.038#	48.50
14)	T	Bromoethene			0.325	0.304	0.299	0.264	0.275	0.293	8.41
15)	T	Acetone			1.084	0.960	0.933	0.714	0.723	0.883	18.17
16)	T	1,3-Butadiene			0.476	0.435	0.418	0.358	0.367	0.411	11.96
17)		tert-Butyl alc...			1.184	1.185	1.201	0.950	1.004	1.105	10.71
18)	T	1,1-Dichloroet...			0.398	0.437	0.386	0.320	0.338	0.376	12.57
19)	T	Isopropyl Alcohol			0.561	0.571	0.557	0.419	0.429	0.507	15.06
20)	T	Methylene Chlo...			0.429	0.374	0.329	0.261	0.278	0.334	20.72
21)	T	Allyl Chloride			0.707	0.717	0.639	0.538	0.590	0.638	11.94
22)	T	trans-1,2-Dich...			0.481	0.506	0.450	0.358	0.395	0.438	13.90
23)	T	Vinyl Acetate			0.689	0.614	0.695	0.520	0.586	0.621	11.82
24)	T	1,1-Dichloroet...			0.927	0.856	0.863	0.669	0.758	0.815	12.42
25)	T	Ethyl Acetate			3.833	3.674	3.776	3.174	3.217	3.535	8.91
26)	T	Hexane			1.596	1.462	1.519	1.282	1.287	1.429	9.83
27)	T	Carbon Disulfide			1.042	0.972	1.032	0.856	0.942	0.969	7.78
28)	T	Methyl tert-Bu...			0.650	0.844	0.838	0.522	0.705	0.711	19.02
29)	T	Chloroform			2.165	2.044	1.971	1.722	1.716	1.923	10.36
30)	T	Cyclohexane			1.154	1.239	1.255	1.076	1.076	1.160	7.39
31)	T	cis-1,2-Dichlo...			1.421	1.401	1.450	1.237	1.255	1.353	7.33
32)	T	1,1,1-Trichlor...	1.921	1.875	1.883	1.916	1.944	1.771	1.751	1.866	4.05
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.833	0.799	0.812	0.692	0.759	0.779	7.15
35)	T	Carbon Tetrach...	0.664	0.705	0.675	0.723	0.725	0.655	0.681	0.690	4.09
36)	T	Benzene			1.079	1.084	1.104	0.969	0.999	1.047	5.66
37)	T	1,2-Dichloroet...			0.624	0.604	0.598	0.520	0.556	0.580	7.20
38)	T	Trichloroethene	0.447	0.462	0.433	0.447	0.447	0.378	0.379	0.427	8.06
39)	T	1,2-Dichloropr...			0.421	0.415	0.414	0.357	0.379	0.397	7.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL022525AIR.M

40)	T	1,4-Dioxane			0.192	0.196	0.181	0.164	0.173	0.181	7.31
41)	T	Tetrahydrofuran			0.469	0.492	0.473	0.418	0.450	0.460	6.04
42)	T	Bromodichlorom...			0.806	0.791	0.810	0.739	0.765	0.782	3.81
43)		Methyl Methacr...			0.400	0.418	0.426	0.392	0.409	0.409	3.35
44)	T	2,2,4-Trimethy...			1.928	1.935	1.955	1.670	1.750	1.848	6.99
45)	T	t-1,3-Dichloro...			0.414	0.392	0.418	0.393	0.414	0.406	3.12
46)	T	cis-1,3-Dichlo...			0.514	0.523	0.548	0.516	0.526	0.526	2.59
47)	T	1,1,2-Trichlor...			0.426	0.429	0.426	0.361	0.375	0.403	8.12
48)	T	Dibromochlorom...			0.618	0.667	0.667	0.594	0.613	0.632	5.25
49)	T	Bromoform			0.553	0.551	0.588	0.525	0.526	0.549	4.68
50)	T	4-Methyl-2-Pen...			0.996	0.974	0.975	1.014	1.079	1.008	4.27
51)	T	2-Hexanone			0.577	0.570	0.608	0.834	0.879	0.693	21.69
52)	T	Tetrachloroethene	0.322	0.374	0.380	0.383	0.385	0.327	0.337	0.358	7.88
53)	T	Toluene			1.150	1.210	1.284	1.088	1.118	1.170	6.67
54)	T	1,2-Dibromoethane		0.563	0.556	0.553	0.586	0.500	0.514	0.545	5.87
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.607	0.596	0.595	0.505	0.524	0.565	8.37
57)	T	Chlorobenzene			1.102	1.113	1.121	0.910	0.938	1.037	10.02
58)	T	Ethyl Benzene			1.886	1.906	1.974	1.694	1.749	1.842	6.31
59)	T	m/p-Xylene			1.488	1.550	1.580	1.330	1.380	1.466	7.35
60)	T	o-Xylene			1.572	1.550	1.577	1.317	1.351	1.473	8.68
61)	T	Styrene			0.659	0.719	0.738	0.658	0.690	0.693	5.18
62)		Isopropylbenzene			2.299	2.339	2.399	1.969	2.026	2.207	8.84
63)	T	1,1,2,2-Tetrac...	0.999	0.975	1.026	1.041	1.031	0.848	0.872	0.970	8.13
64)		n-propylbenzene			0.596	0.607	0.632	0.524	0.535	0.579	8.11
65)		tert-Butylbenzene			2.080	2.251	2.222	1.733	1.753	2.008	12.47
66)	T	Benzyl Chloride			0.141	0.159	0.163	0.153	0.150	0.153	5.40
67)		sec-Butylbenzene			2.973	3.229	3.182	2.482	2.494	2.872	12.65
68)	S	1-Bromo-4-Fluo...	0.773	0.760	0.768	0.777	0.765	0.764	0.779	0.769	0.92
69)		p-Isopropyltol...			2.240	2.533	2.575	2.021	2.056	2.285	11.38
70)		n-Butylbenzene			2.332	2.567	2.572	2.070	2.120	2.332	10.20
71)		2-Chlorotoluene			1.758	1.829	1.853	1.514	1.551	1.701	9.30
72)	T	4-Ethyltoluene			1.775	1.944	1.985	1.621	1.670	1.799	8.99
73)	T	1,3,5-Trimethy...			1.592	1.732	1.696	1.381	1.400	1.560	10.47
74)	T	1,2,4-Trimethy...			1.855	1.982	1.990	1.471	1.488	1.757	14.76
75)	T	1,3-Dichlorobe...			1.112	1.110	1.083	0.869	0.882	1.011	12.30
76)	T	1,4-Dichlorobe...			1.120	1.061	1.092	0.861	0.886	1.004	12.07
77)	T	1,2-Dichlorobe...			1.059	1.097	1.063	0.836	0.852	0.981	12.88
78)	T	Hexachloro-1,3...			0.840	0.832	0.844	0.637	0.666	0.764	13.53
79)	T	Naphthalene		0.841	0.978	1.237	1.352	1.371	1.450	1.205	20.15
80)	T	Naphthalene,2-...			0.090	0.142	0.240	0.562	0.615	0.330	73.74
81)	T	1,2,4-Trichlor...			0.589	0.687	0.765	0.644	0.673	0.671	9.58

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	161135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	422655	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	374249	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	285943	9.263	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 92.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	152005	5.480	ppbv	99
3) Chlorodifluoromethane	1.479	51	211185	6.887	ppbv	96
4) Chloromethane	1.538	50	55364	5.136	ppbv	98
5) Vinyl Chloride	1.586	62	54228	4.207	ppbv	98
6) Bromomethane	1.674	94	25846	5.173	ppbv	90
7) Chloroethane	1.709	64	21717	5.169	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	125595	5.147	ppbv	94
9) Propene	1.489	41	84038	6.357	ppbv	97
10) Heptane	5.007	43	267860	7.296	ppbv	97
11) Trichlorofluoromethane	1.884	101	152112	5.449	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	112374	5.162	ppbv	93
13) Ethanol	1.729	45	3178	2.131	ppbv	85
14) Bromoethene	1.787	108	42461	5.223	ppbv	99
15) Acetone	1.842	43	115085	4.327	ppbv	95
16) 1,3-Butadiene	1.615	39	57707	4.574	ppbv	100
17) tert-Butyl alcohol	2.049	59	153073	4.651	ppbv	100
18) 1,1-Dichloroethene	2.043	96	51534	4.954	ppbv	95
19) Isopropyl Alcohol	1.894	45	67445	4.522	ppbv	98
20) Methylene Chloride	2.069	84	41998	4.195	ppbv	94
21) Allyl Chloride	2.104	41	86723	4.504	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	57617	5.104	ppbv	96
23) Vinyl Acetate	2.473	43	83866	5.823	ppbv	98
24) 1,1-Dichloroethane	2.418	63	107817	4.704	ppbv	100
25) Ethyl Acetate	2.852	43	511505	7.007	ppbv	99
26) Hexane	2.839	57	206577	7.052	ppbv	98
27) Carbon Disulfide	2.159	76	137978	5.008	ppbv	97
28) Methyl tert-Butyl Ether	2.450	73	84091	4.696	ppbv	98
29) Chloroform	2.862	83	277411	6.538	ppbv	96
30) Cyclohexane	3.875	84	173351	7.295	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	199354	6.886	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	285335	6.064	ppbv	98
34) 2-Butanone	2.570	43	292449	8.043	ppbv	100
35) Carbon Tetrachloride	3.781	117	276677	6.741	ppbv	97
36) Benzene	3.674	78	409501	7.999	ppbv	98
37) 1,2-Dichloroethane	3.234	62	219829	7.543	ppbv	100
38) Trichloroethene	4.570	130	159933	7.689	ppbv	93
39) 1,2-Dichloropropane	4.337	63	151036	8.047	ppbv	99
40) 1,4-Dioxane	4.609	88	69399	7.105	ppbv #	76
41) Tetrahydrofuran	3.072	42	176830	8.509	ppbv	95
42) Bromodichloromethane	4.512	83	312250	7.908	ppbv	97
43) Methyl Methacrylate	4.907	69	165494	7.091	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	705920	8.122	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	166207	7.544	ppbv	91

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.629	75	218294	7.809	ppbv		99
47)	1,1,2-Trichloroethane	6.610	97	152556	7.723	ppbv		97
48)	Dibromochloromethane	7.412	129	251213	7.593	ppbv		99
49)	Bromoform	9.503	173	222057	8.183	ppbv		98
50)	4-Methyl-2-Pentanone	5.787	43	428434	7.666	ppbv		100
51)	2-Hexanone	7.464	43	352331	7.709	ppbv	#	96
52)	Tetrachloroethene	8.244	164	138263	7.743	ppbv		94
53)	Toluene	6.959	91	460041	7.541	ppbv		97
54)	1,2-Dibromoethane	7.678	107	211395	7.772	ppbv		98
56)	1,1,1,2-Tetrachloroethane	8.943	131	188811	7.049	ppbv		97
57)	Chlorobenzene	8.940	112	340525	7.735	ppbv		97
58)	Ethyl Benzene	9.374	91	633939	7.739	ppbv		98
59)	m/p-Xylene	9.552	91	995259m	15.427	ppbv		
60)	o-Xylene	9.982	91	493069	7.557	ppbv		97
61)	Styrene	9.888	104	246161	7.912	ppbv		98
62)	Isopropylbenzene	10.555	105	736884	7.522	ppbv		98
63)	1,1,2,2-Tetrachloroethane	9.979	83	317313	7.538	ppbv		100
64)	n-propylbenzene	11.005	120	196044	8.145	ppbv		90
65)	tert-Butylbenzene	11.545	119	648698	7.596	ppbv		97
66)	Benzyl Chloride	11.630	91	57345	6.699	ppbv	#	97
67)	sec-Butylbenzene	11.782	105	928863	7.744	ppbv		99
69)	p-Isopropyltoluene	11.940	119	756264	7.702	ppbv		98
70)	n-Butylbenzene	12.296	91	774646	8.009	ppbv		99
71)	2-Chlorotoluene	10.918	91	566619	7.681	ppbv		97
72)	4-Ethyltoluene	11.141	105	606538	7.934	ppbv		98
73)	1,3,5-Trimethylbenzene	11.219	105	516875	7.838	ppbv		100
74)	1,2,4-Trimethylbenzene	11.552	105	550412	7.777	ppbv		98
75)	1,3-Dichlorobenzene	11.623	146	325160	8.535	ppbv		97
76)	1,4-Dichlorobenzene	11.685	146	322404	8.678	ppbv		97
77)	1,2-Dichlorobenzene	11.963	146	312942	8.593	ppbv		96
78)	Hexachloro-1,3-Butadiene	13.895	225	238217	7.907	ppbv		100
79)	Naphthalene	13.526	128	513192	7.372	ppbv		99
80)	Naphthalene,2-methyl-	14.471	142	210405	6.676	ppbv		95
81)	1,2,4-Trichlorobenzene	13.455	180	241031	8.517	ppbv		99

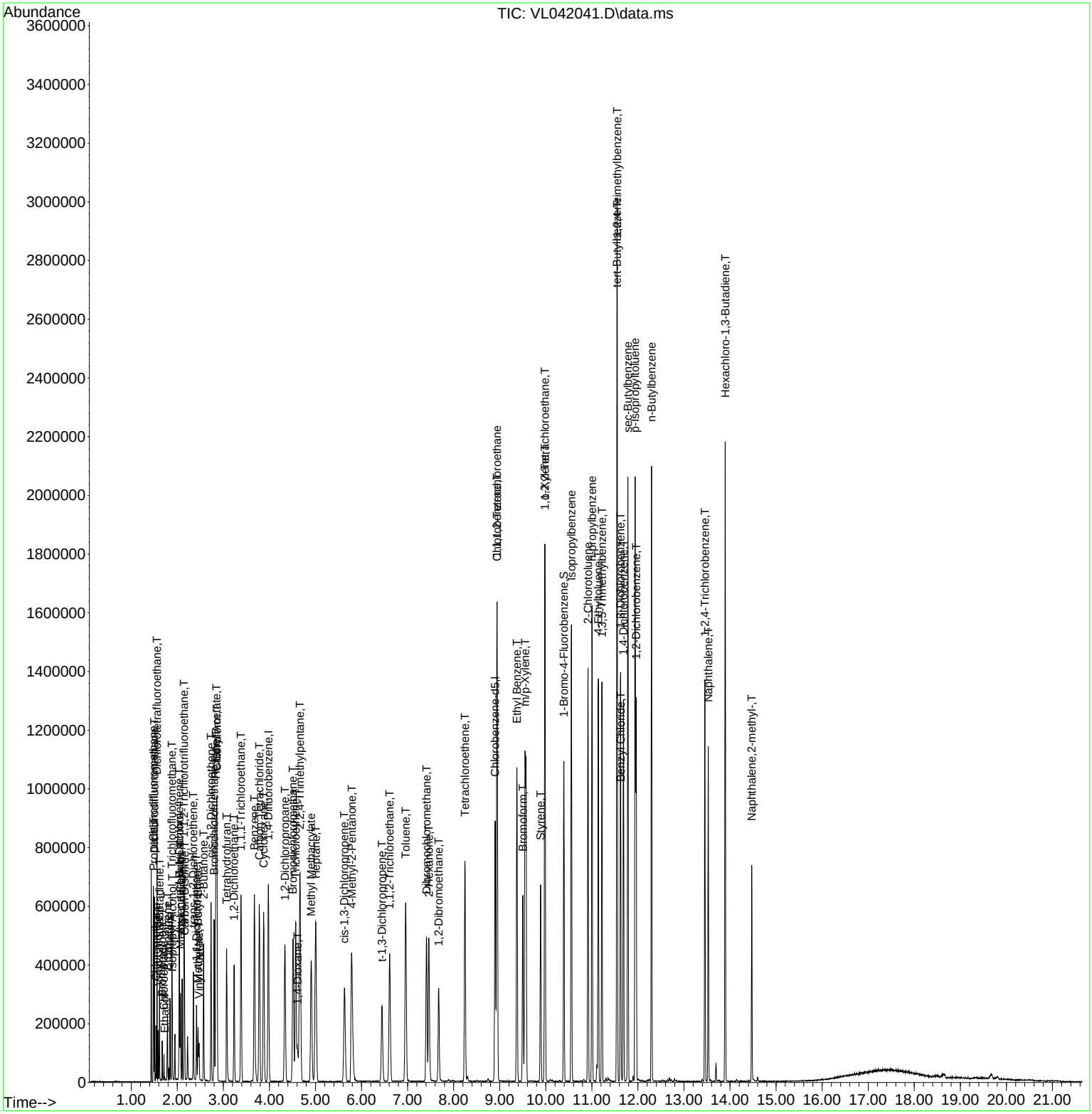
(#) = qualifier out of range (m) = manual integration (+) = signals summed

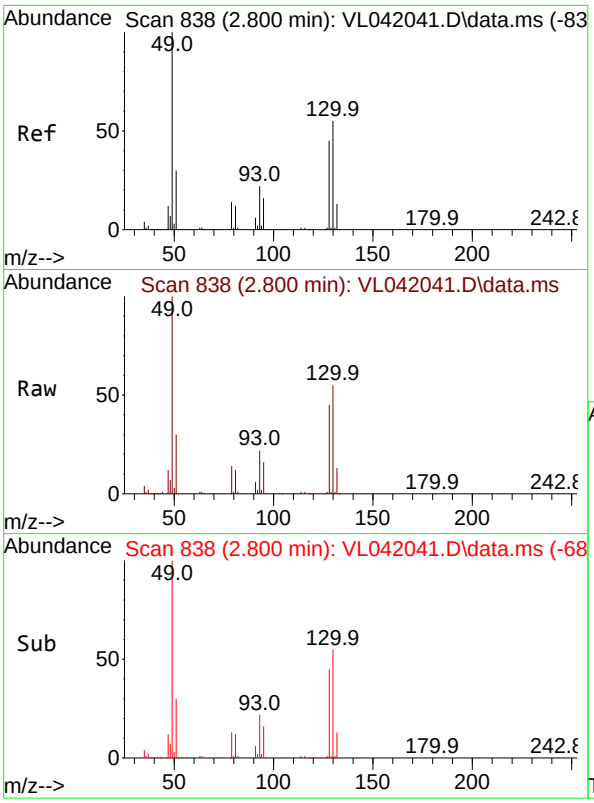
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

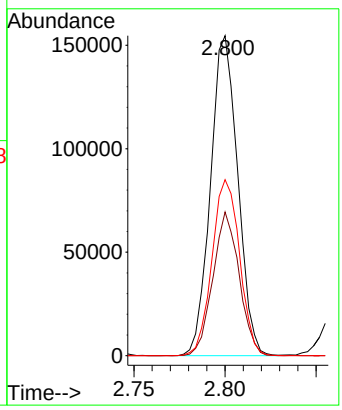




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 49 Resp: 16113

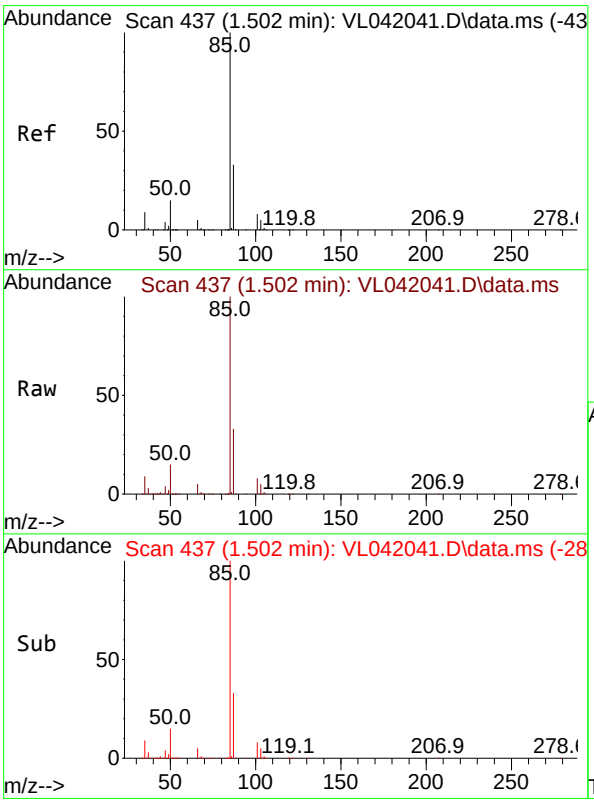
Ion	Ratio	Lower	Upper
49	100		
128	43.2	22.7	68.0
130	55.6	29.9	89.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

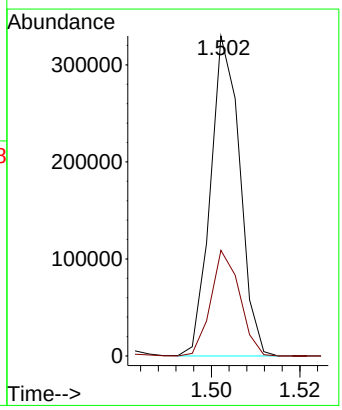
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

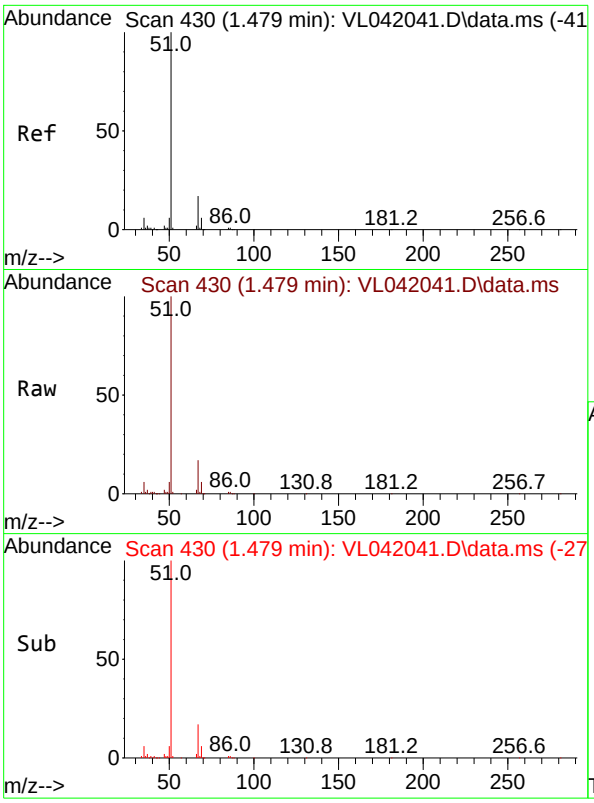


#2
Dichlorodifluoromethane
Concen: 5.480 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 85 Resp: 152005

Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.9	40.3

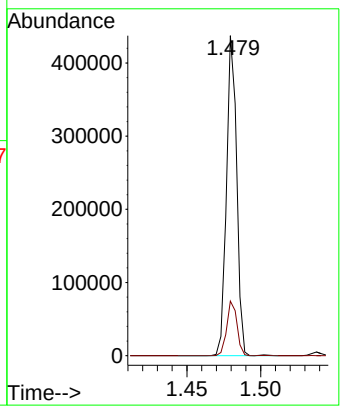




#3
Chlorodifluoromethane
Concen: 6.887 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 51 Resp: 21118

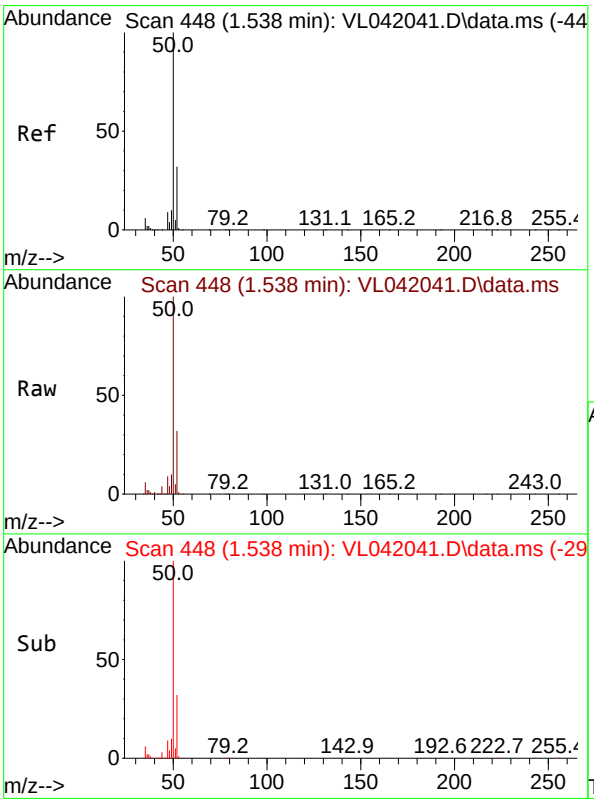
Ion	Ratio	Lower	Upper
51	100		
67	17.1	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

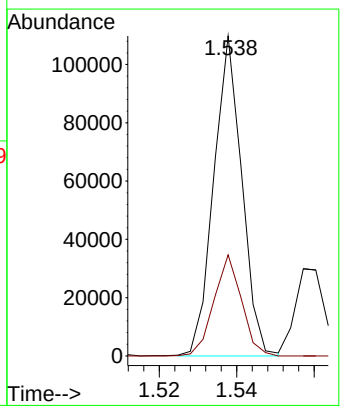
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

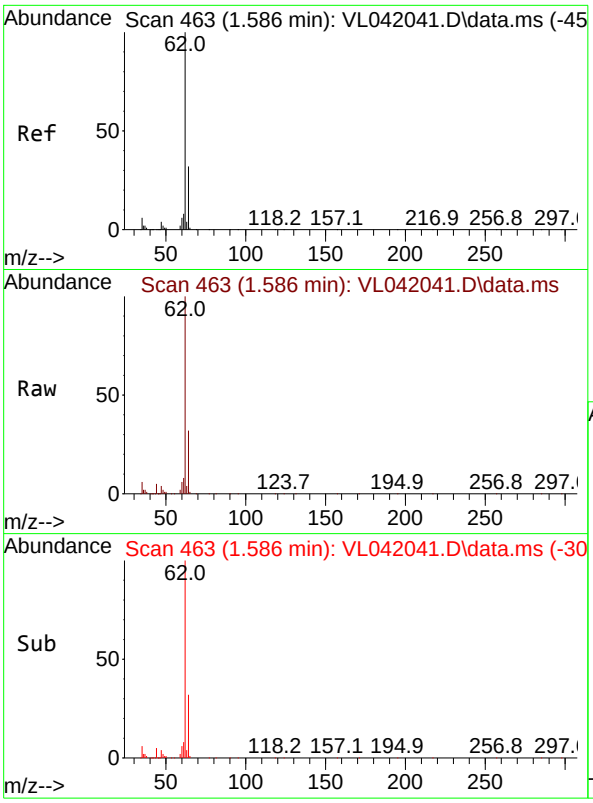


#4
Chloromethane
Concen: 5.136 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 50 Resp: 55364

Ion	Ratio	Lower	Upper
50	100		
52	31.7	26.2	39.2

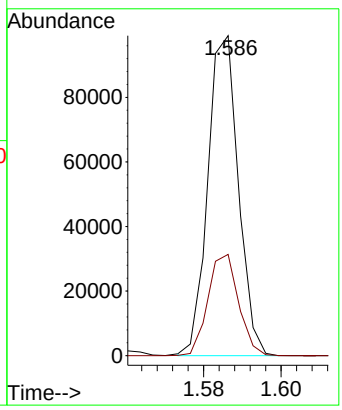




#5
Vinyl Chloride
Concen: 4.207 ppbv
RT: 1.586 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 62 Resp: 5422

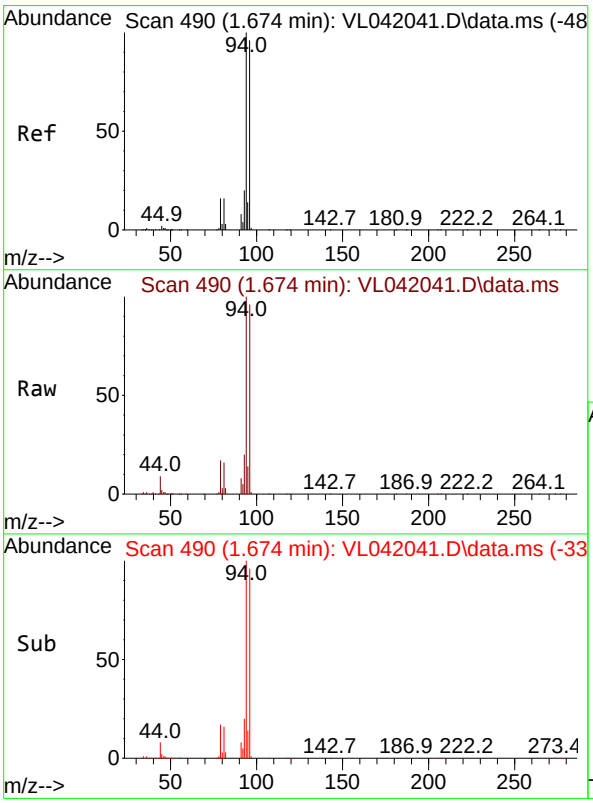
Ion	Ratio	Lower	Upper
62	100		
64	31.6	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

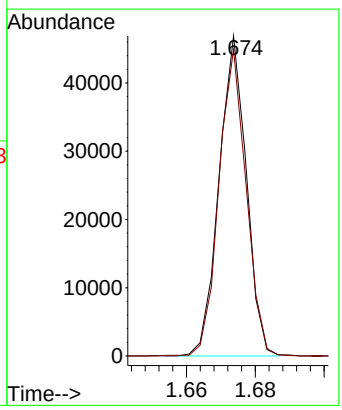
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

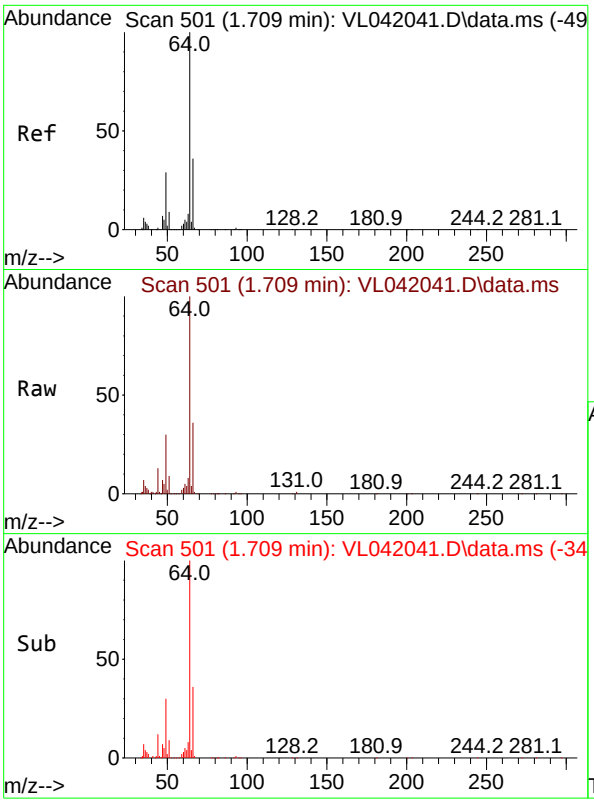


#6
Bromomethane
Concen: 5.173 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 94 Resp: 25846

Ion	Ratio	Lower	Upper
94	100		
96	95.6	69.0	103.6

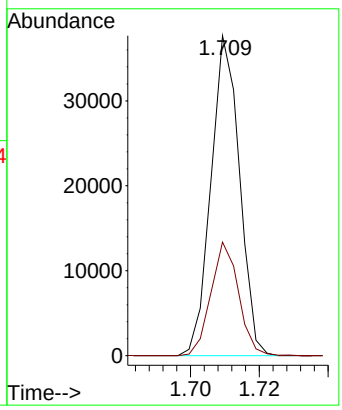




#7
Chloroethane
Concen: 5.169 ppbv
RT: 1.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 64 Resp: 2171

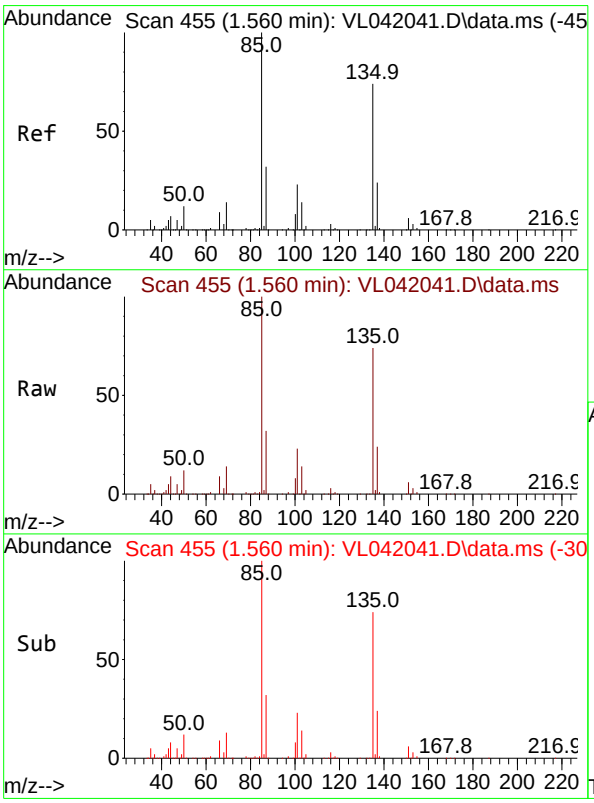
Ion	Ratio	Lower	Upper
64	100		
66	35.5	26.5	39.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

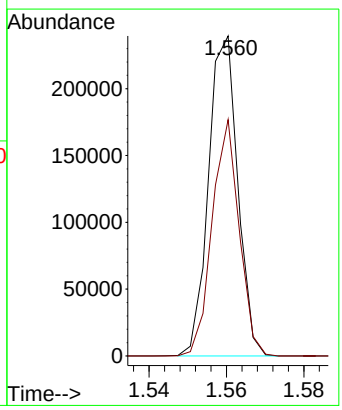
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

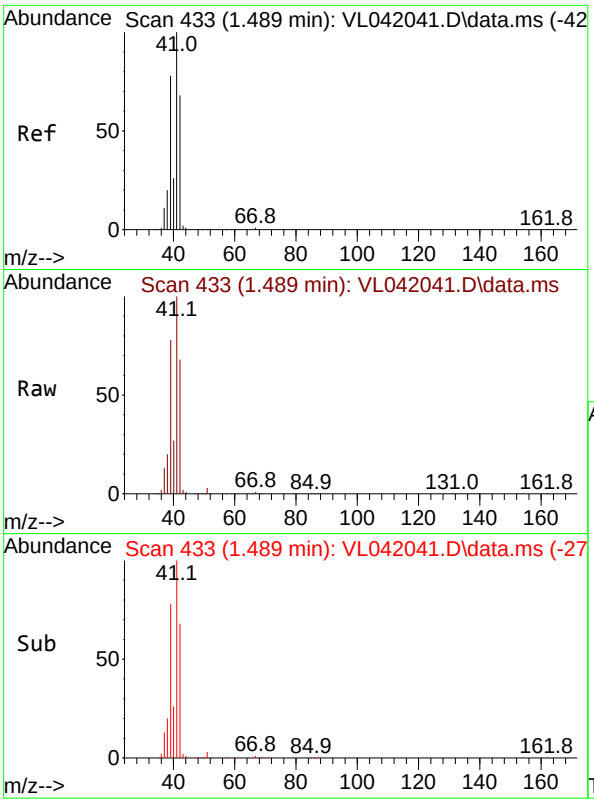


#8
Dichlorotetrafluoroethane
Concen: 5.147 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 85 Resp: 125595

Ion	Ratio	Lower	Upper
85	100		
135	68.2	50.9	76.3

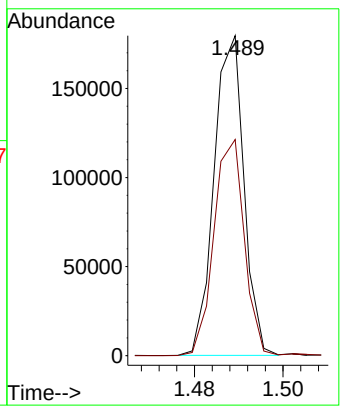




#9
Propene
Concen: 6.357 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 41 Resp: 8403

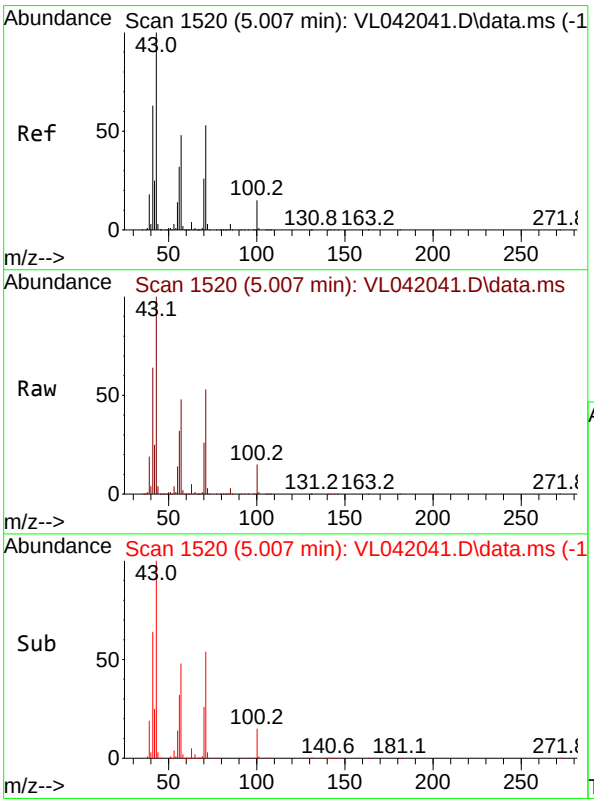
Ion	Ratio	Lower	Upper
41	100		
42	69.7	53.5	80.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

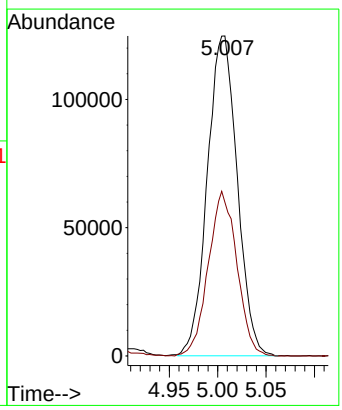
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

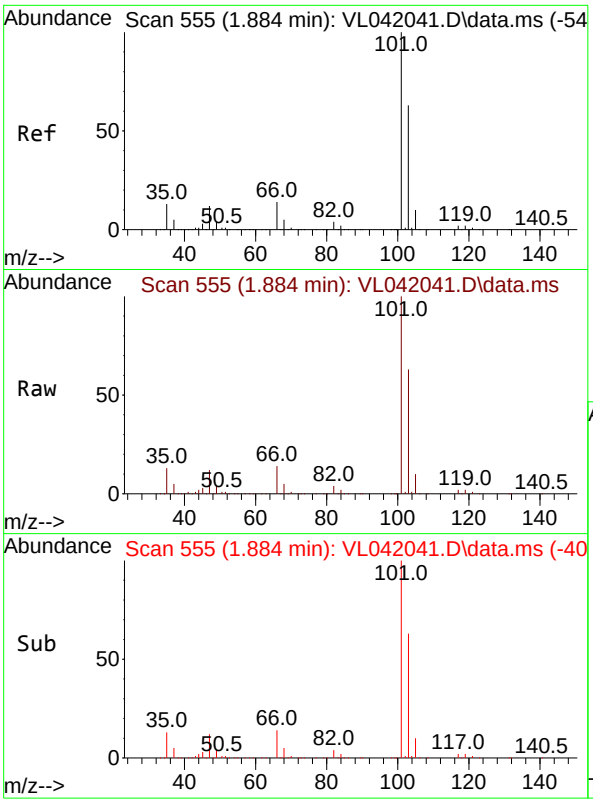


#10
Heptane
Concen: 7.296 ppbv
RT: 5.007 min Scan# 1520
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 43 Resp: 267860

Ion	Ratio	Lower	Upper
43	100		
57	49.2	41.0	61.6

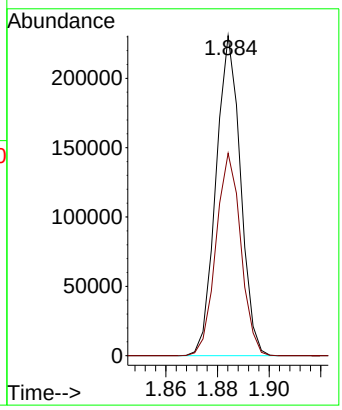




#11
Trichlorofluoromethane
Concen: 5.449 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:101 Resp: 15211

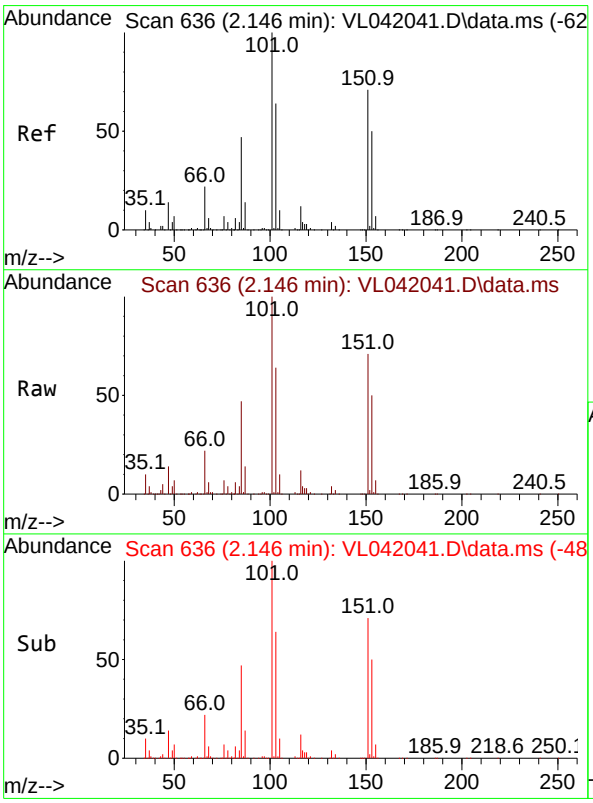
Ion	Ratio	Lower	Upper
101	100		
103	63.2	52.9	79.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

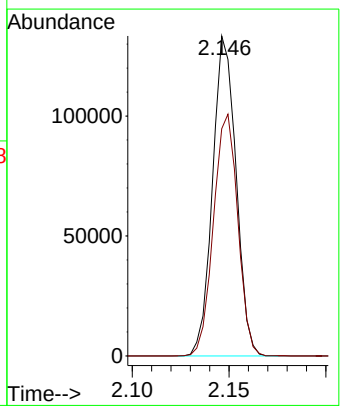
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

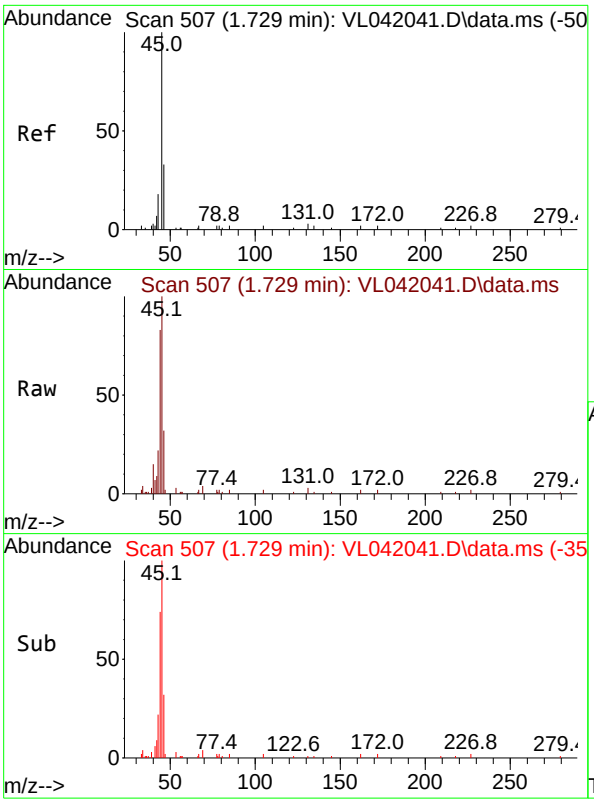


#12
1,1,2-Trichlorotrifluoroethane
Concen: 5.162 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:101 Resp: 112374

Ion	Ratio	Lower	Upper
101	100		
151	78.3	58.2	87.2

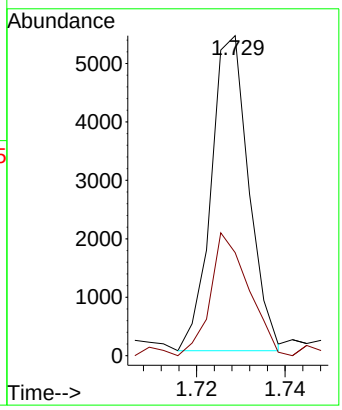




#13
Ethanol
Concen: 2.131 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 45 Resp: 317

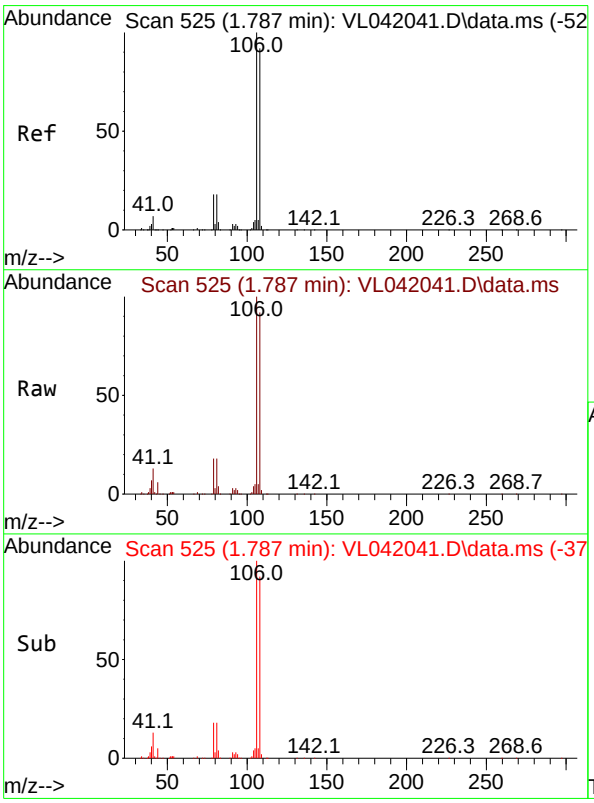
Ion	Ratio	Lower	Upper
45	100		
46	42.7	21.3	85.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

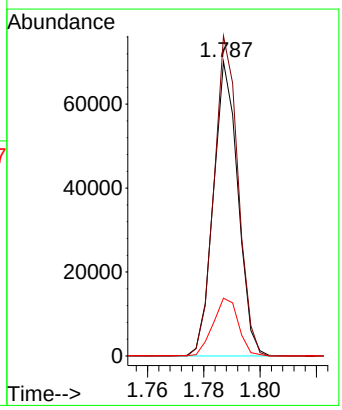
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

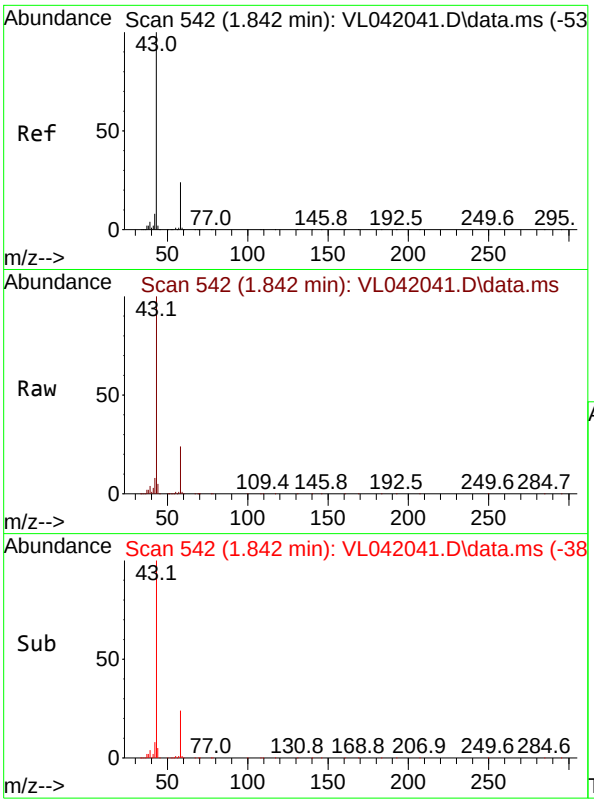


#14
Bromoethene
Concen: 5.223 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:108 Resp: 42461

Ion	Ratio	Lower	Upper
108	100		
106	106.7	85.0	127.6
79	20.6	17.3	25.9

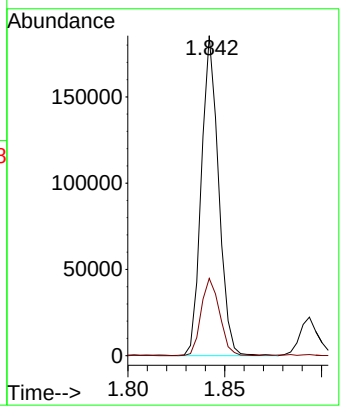




#15
Acetone
Concen: 4.327 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 43 Resp: 11508

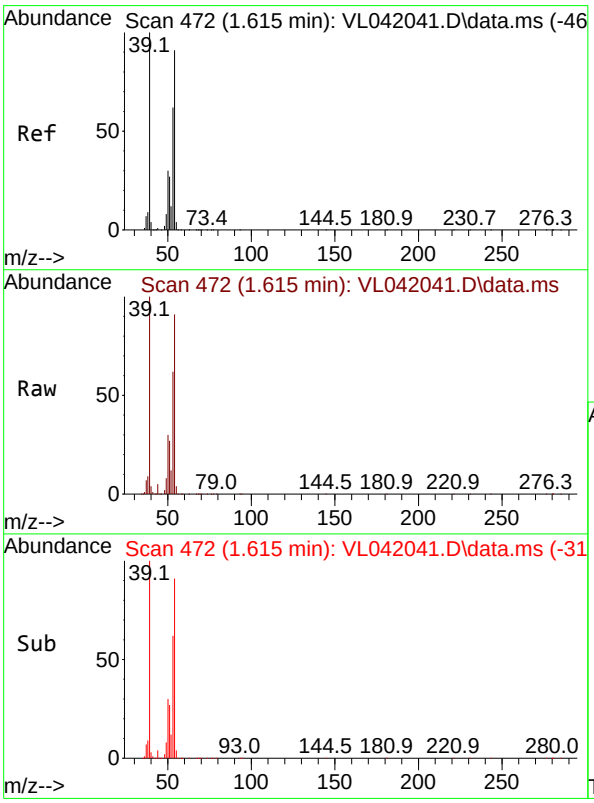
Ion	Ratio	Lower	Upper
43	100		
58	25.9	22.9	34.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

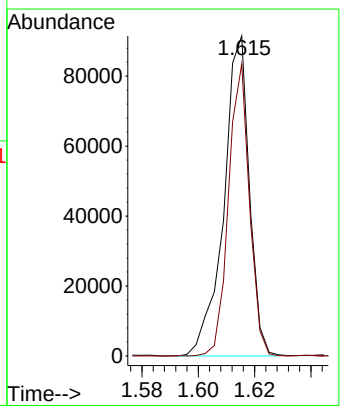
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

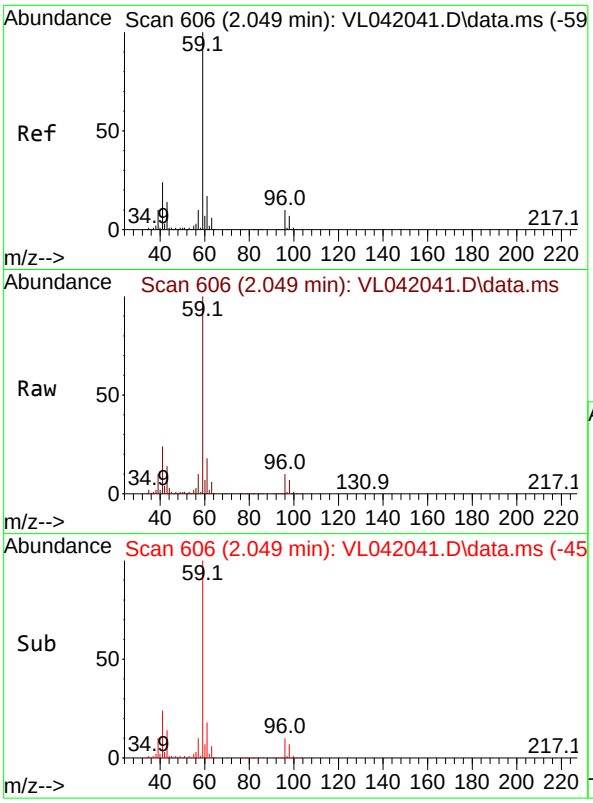


#16
1,3-Butadiene
Concen: 4.574 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 39 Resp: 57707

Ion	Ratio	Lower	Upper
39	100		
54	74.5	59.4	89.2

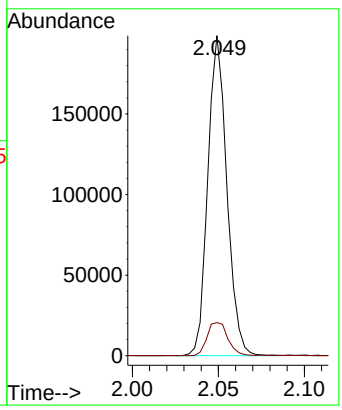




#17
tert-Butyl alcohol
Concen: 4.651 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 59 Resp: 15307

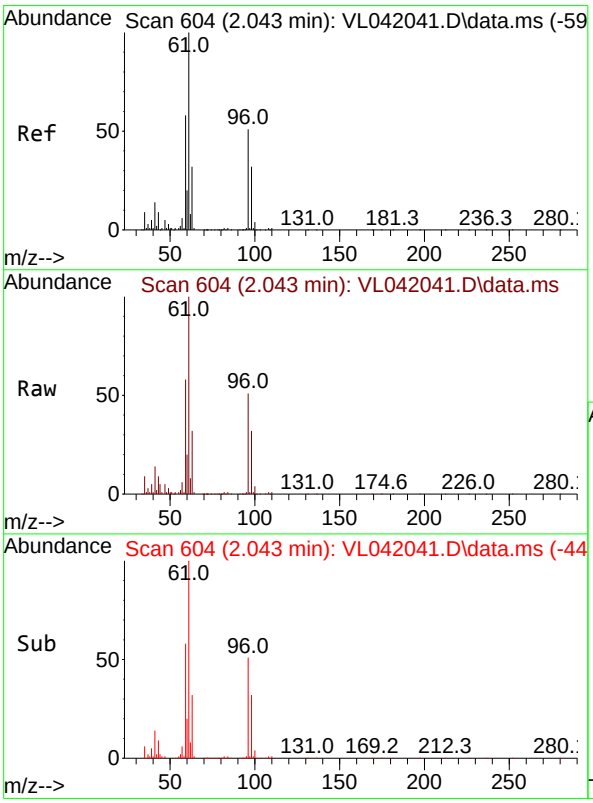
Ion	Ratio	Lower	Upper
59	100		
57	11.6	9.2	13.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

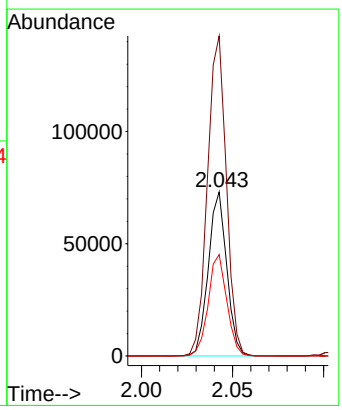
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

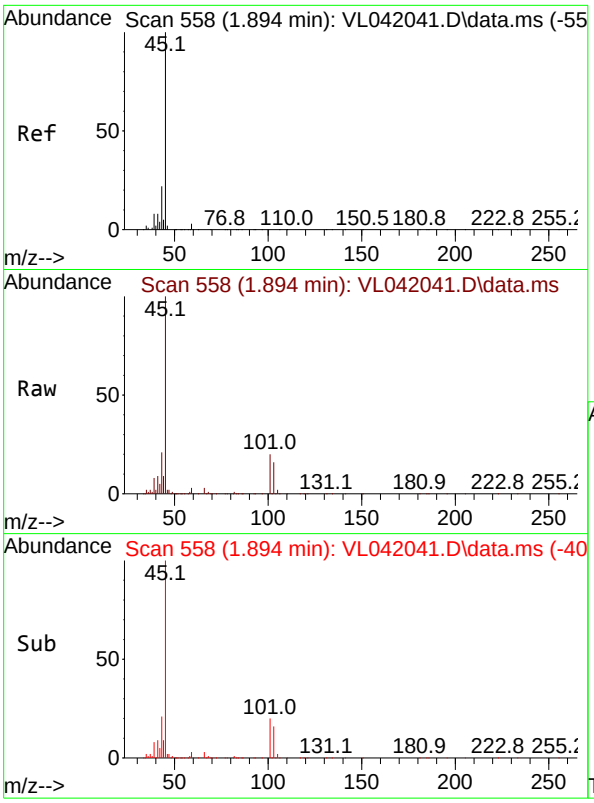


#18
1,1-Dichloroethene
Concen: 4.954 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 96 Resp: 51534

Ion	Ratio	Lower	Upper
96	100		
61	195.0	163.5	245.3
98	61.8	49.4	74.0

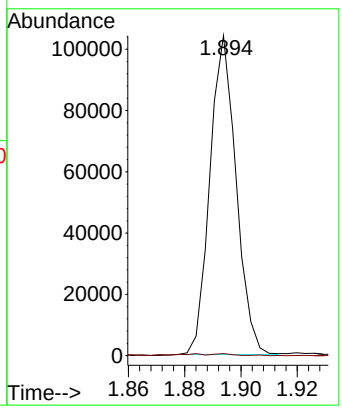




#19
Isopropyl Alcohol
Concen: 4.522 ppbv
RT: 1.894 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 45 Resp: 6744

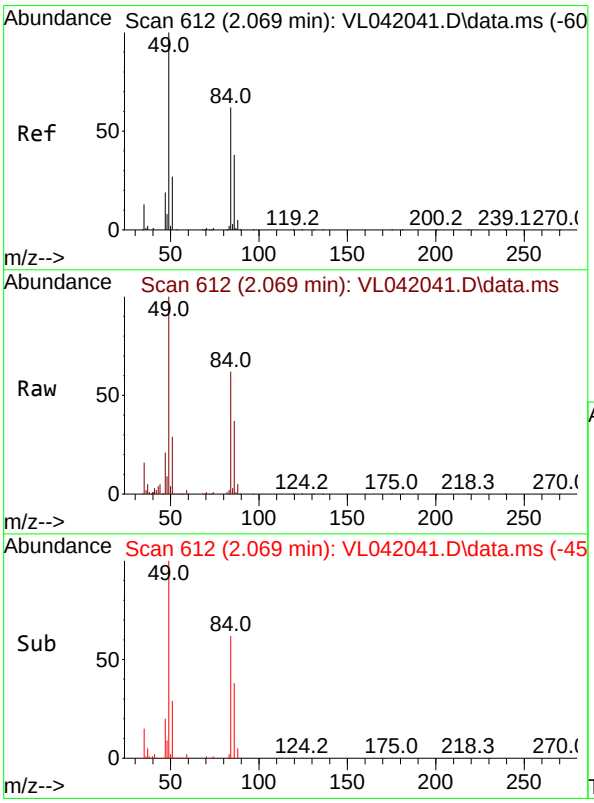
Ion	Ratio	Lower	Upper
45	100		
58	44.1	36.2	54.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

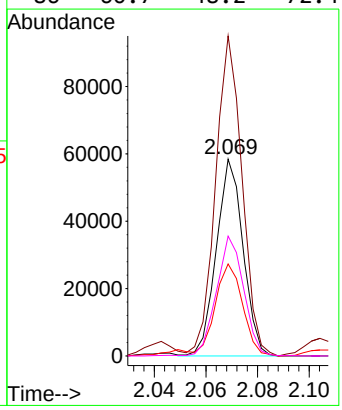
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

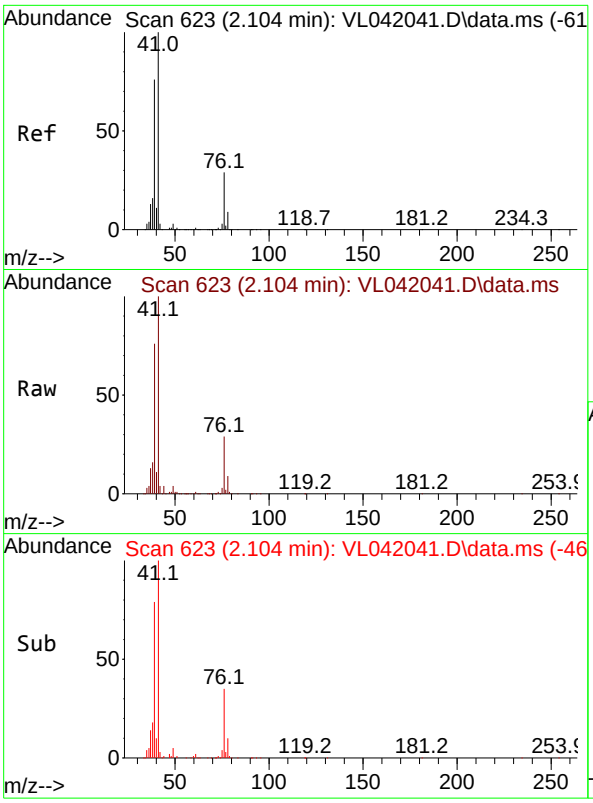


#20
Methylene Chloride
Concen: 4.195 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 84 Resp: 41998

Ion	Ratio	Lower	Upper
84	100		
49	162.5	121.0	181.4
51	46.7	35.1	52.7
86	60.7	48.2	72.4





#21
Allyl Chloride
Concen: 4.504 ppbv
RT: 2.104 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

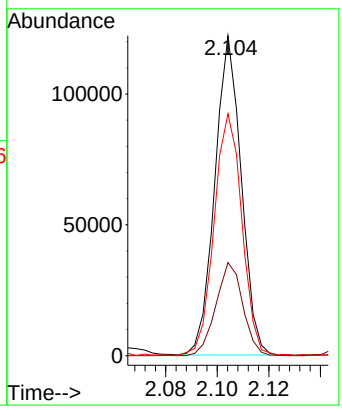
Tgt Ion: 41 Resp: 8672

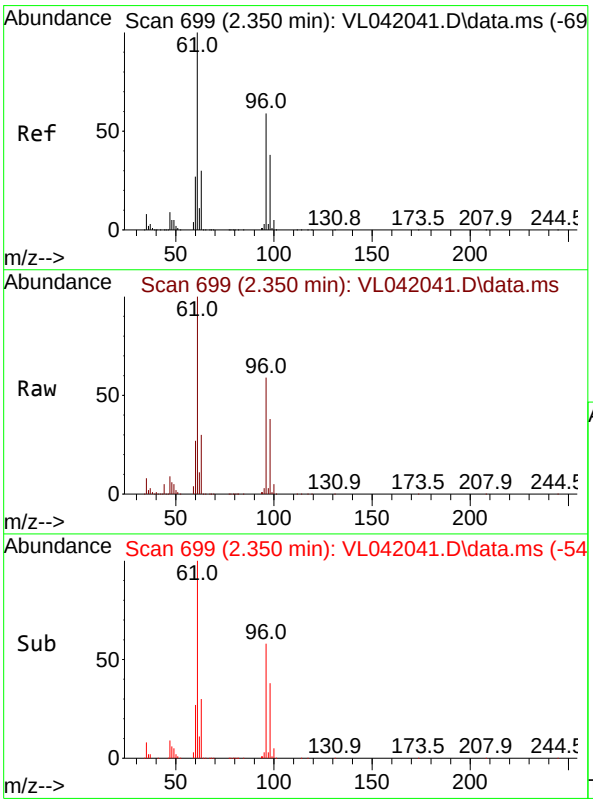
Ion	Ratio	Lower	Upper
41	100		
76	29.7	23.7	35.5
39	79.7	63.0	94.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

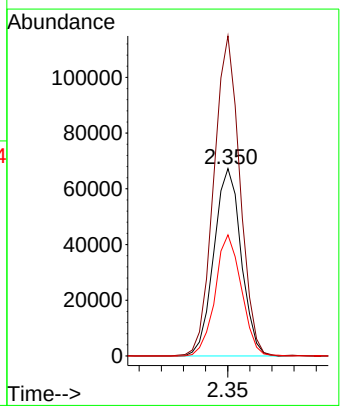


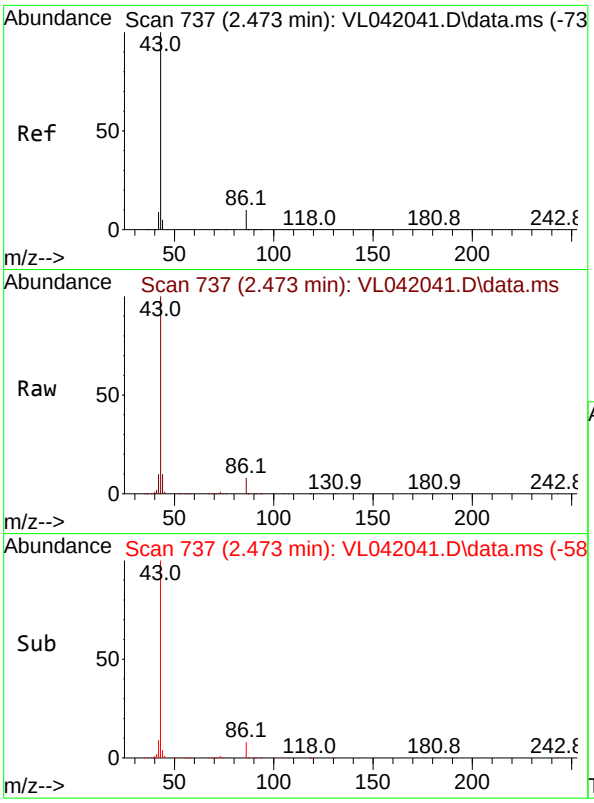


#22
trans-1,2-Dichloroethene
Concen: 5.104 ppbv
RT: 2.350 min Scan# 699
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 96 Resp: 57617

Ion	Ratio	Lower	Upper
96	100		
61	170.8	142.3	213.5
98	64.7	50.2	75.2

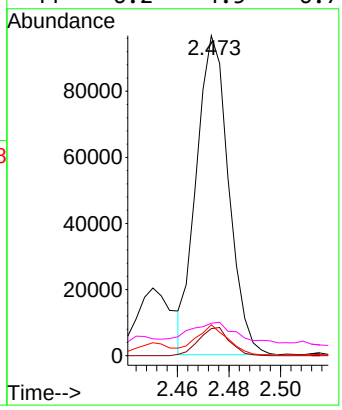




#23
Vinyl Acetate
Concen: 5.823 ppbv
RT: 2.473 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 43 Resp: 8386

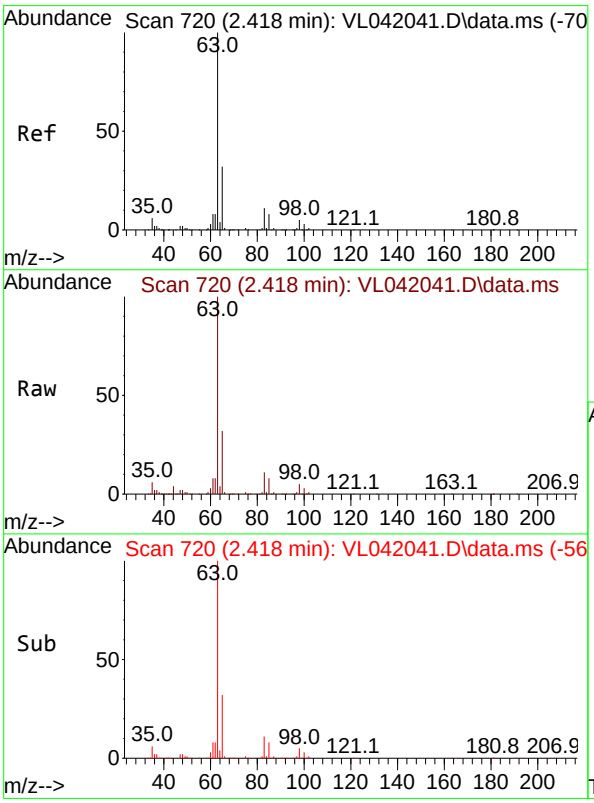
Ion	Ratio	Lower	Upper
43	100		
86	8.7	8.1	12.1
42	9.5	7.5	11.3
44	6.2	4.5	6.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

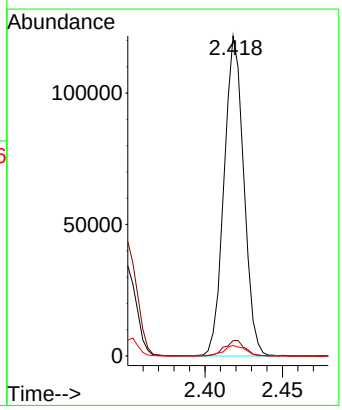
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

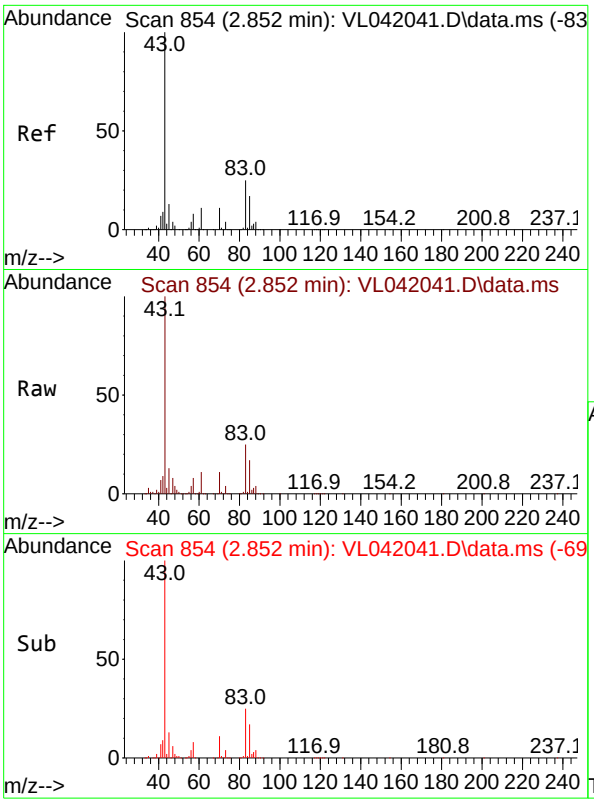


#24
1,1-Dichloroethane
Concen: 4.704 ppbv
RT: 2.418 min Scan# 720
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 63 Resp: 107817

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.4	7.2
100	3.3	1.6	4.8

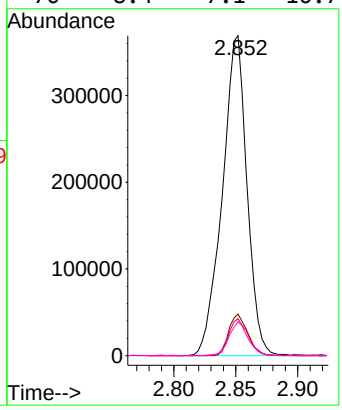




#25
Ethyl Acetate
Concen: 7.007 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 43 Resp: 51150

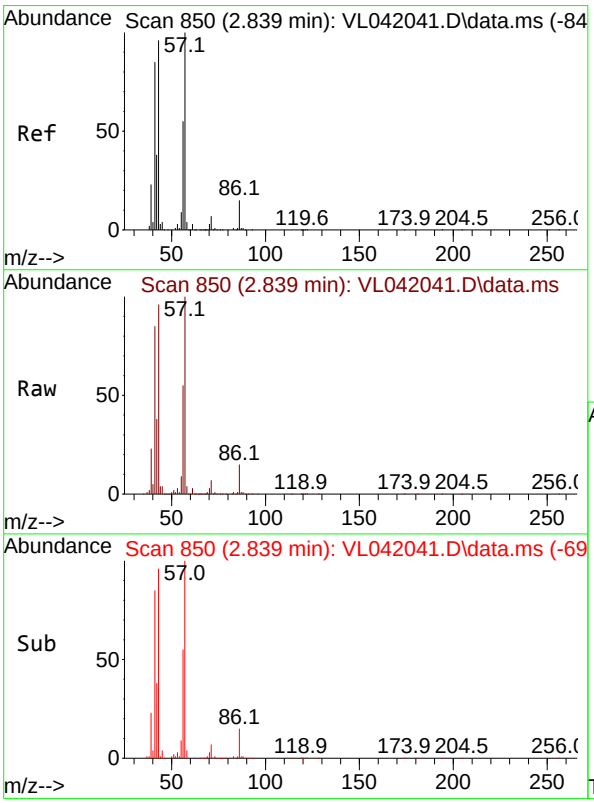
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.0	7.5	11.3
70	8.4	7.1	10.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

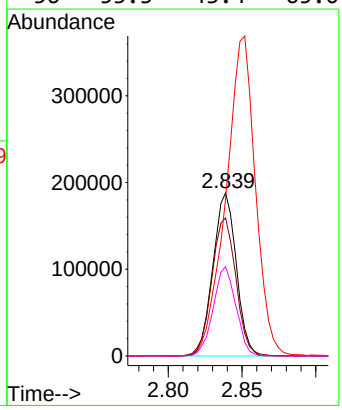
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

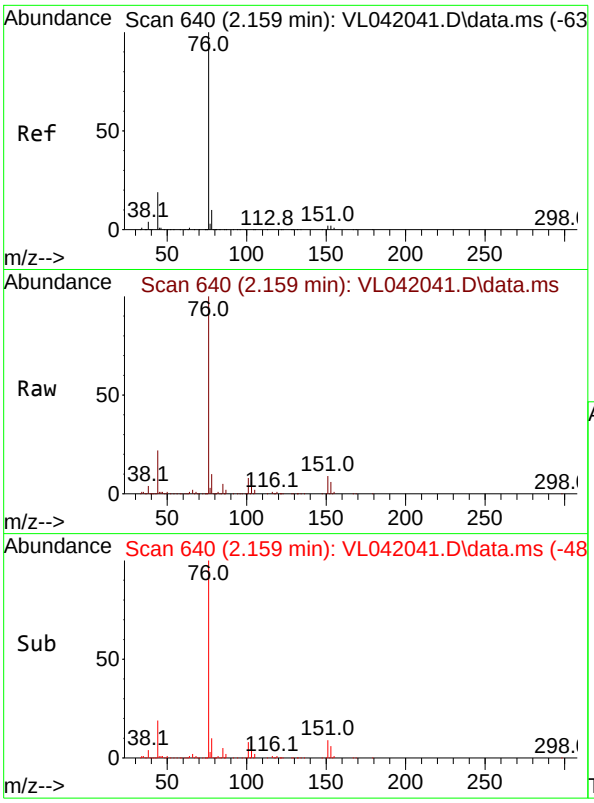


#26
Hexane
Concen: 7.052 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 57 Resp: 206577

Ion	Ratio	Lower	Upper
57	100		
41	88.3	73.2	109.8
43	249.2	200.8	301.2
56	53.3	43.4	65.0

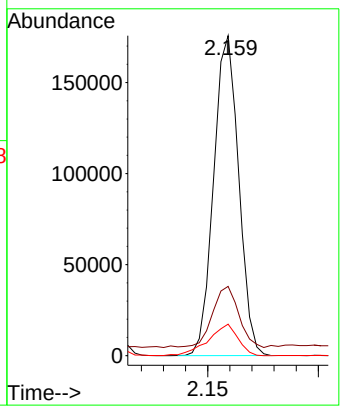




#27
Carbon Disulfide
Concen: 5.008 ppbv
RT: 2.159 min Scan# 64
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 76 Resp: 13797

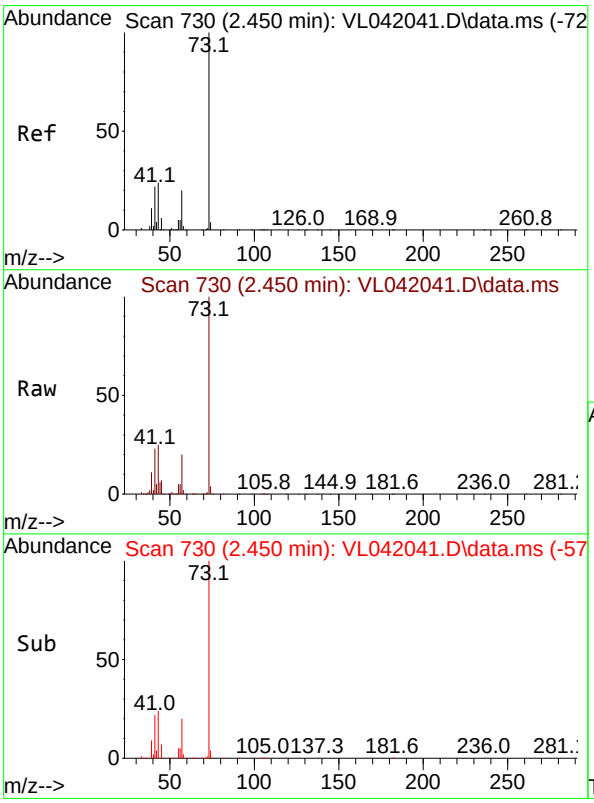
Ion	Ratio	Lower	Upper
76	100		
44	20.2	18.1	27.1
78	11.7	9.5	14.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

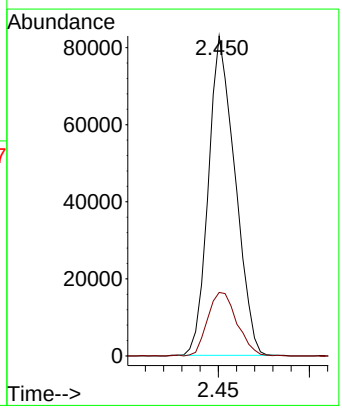
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

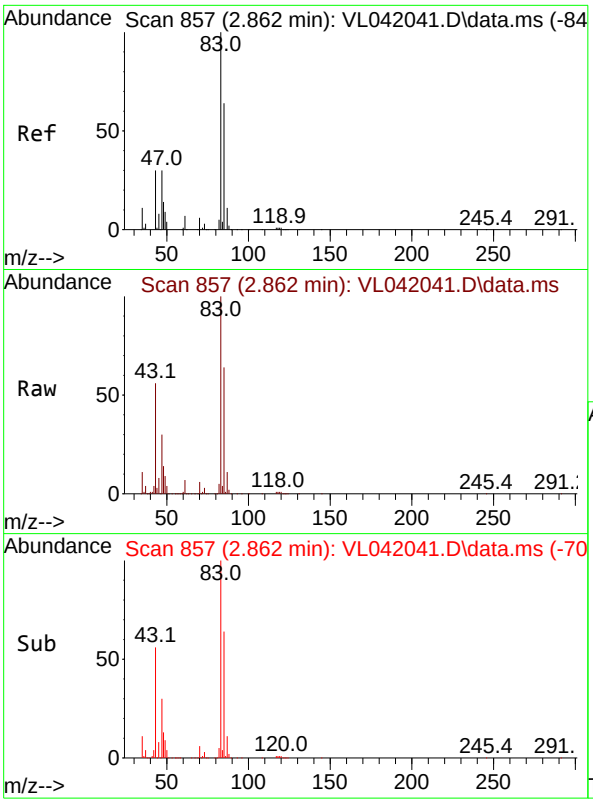


#28
Methyl tert-Butyl Ether
Concen: 4.696 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 73 Resp: 84091

Ion	Ratio	Lower	Upper
73	100		
57	22.1	18.3	27.5

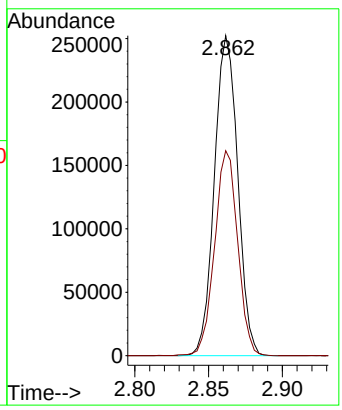




#29
Chloroform
Concen: 6.538 ppbv
RT: 2.862 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 83 Resp: 27741

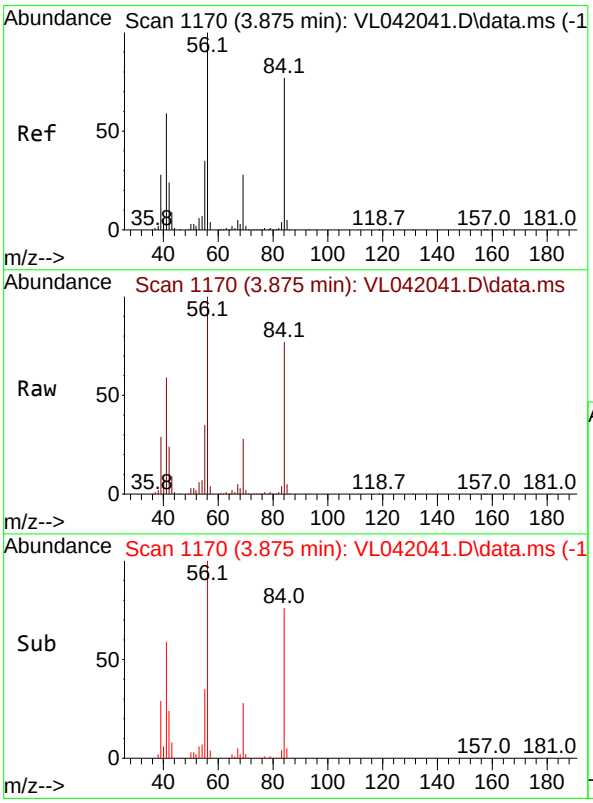
Ion	Ratio	Lower	Upper
83	100		
85	64.0	53.8	80.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

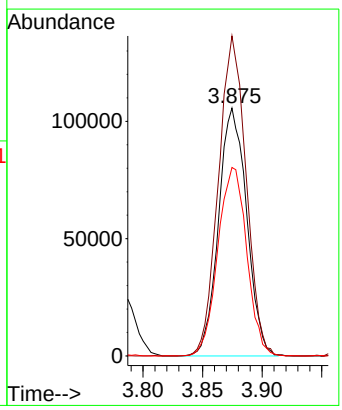
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

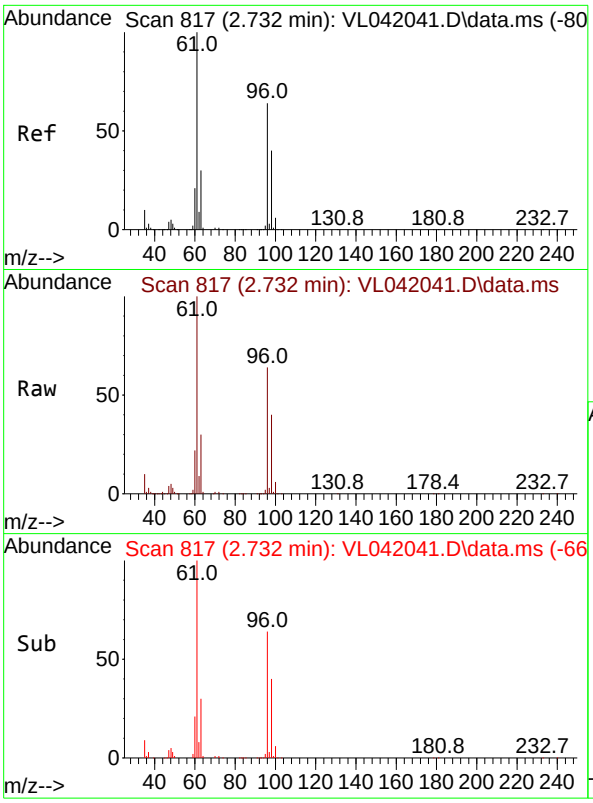


#30
Cyclohexane
Concen: 7.295 ppbv
RT: 3.875 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 84 Resp: 173351

Ion	Ratio	Lower	Upper
84	100		
56	126.9	99.5	149.3
41	78.2	62.2	93.2

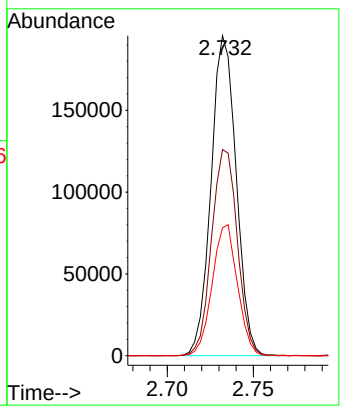




#31
cis-1,2-Dichloroethene
Concen: 6.886 ppbv
RT: 2.732 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 61 Resp: 19935

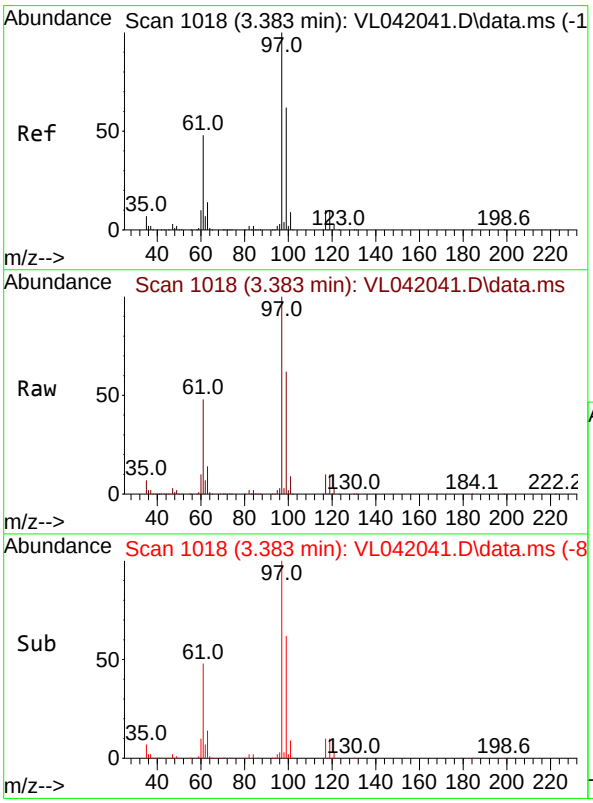
Ion	Ratio	Lower	Upper
61	100		
96	64.4	51.6	77.4
98	40.0	34.8	52.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

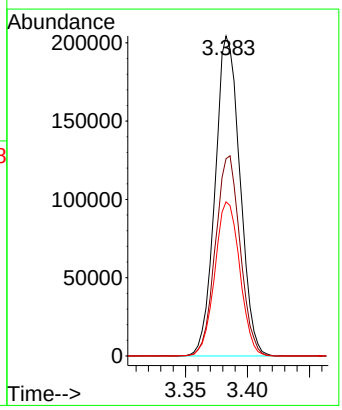
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

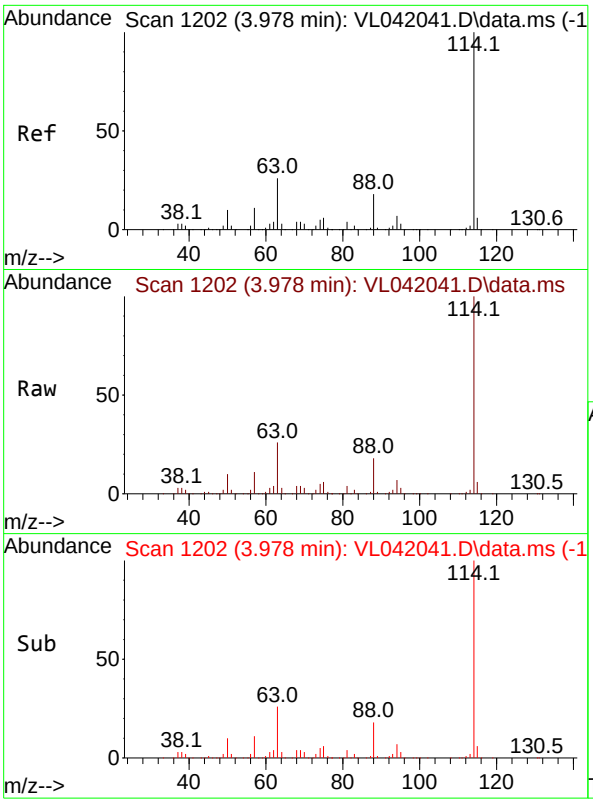


#32
1,1,1-Trichloroethane
Concen: 6.064 ppbv
RT: 3.383 min Scan# 1018
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 97 Resp: 285335

Ion	Ratio	Lower	Upper
97	100		
99	62.2	51.0	76.4
61	48.6	37.9	56.9





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

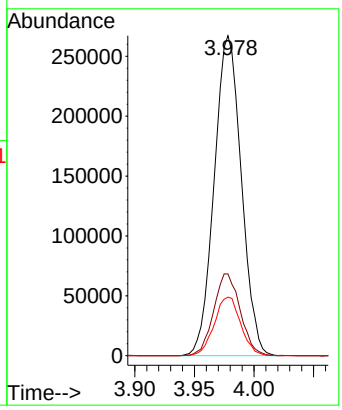
Tgt Ion:114 Resp: 42265

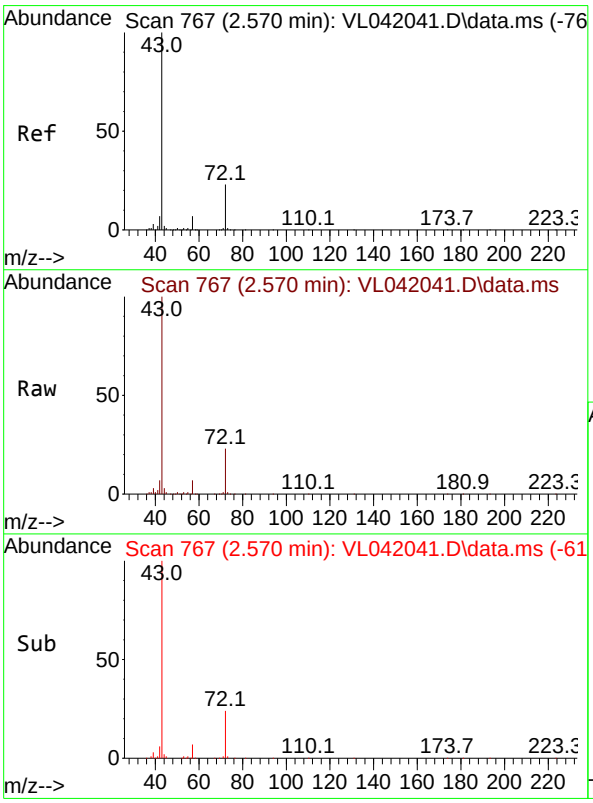
Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.2
88	17.9	14.4	21.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

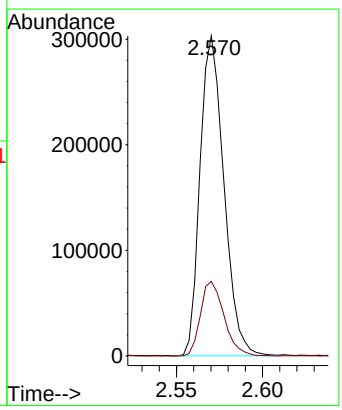


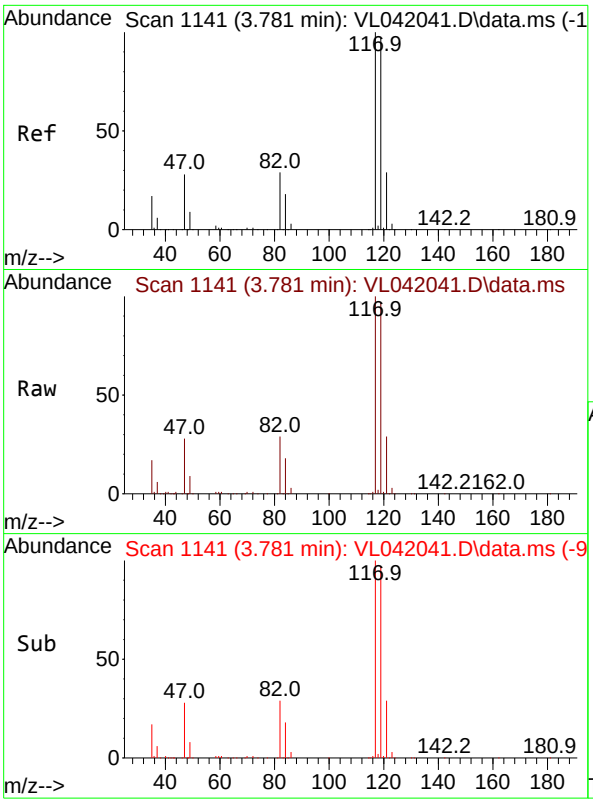


#34
2-Butanone
Concen: 8.043 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 43 Resp: 292449

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.3	27.5

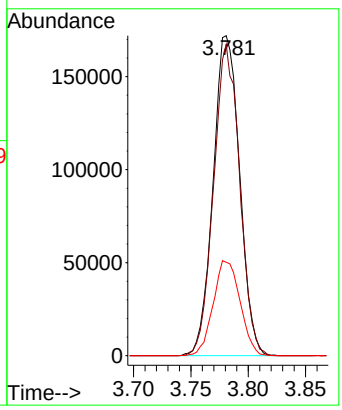




#35
Carbon Tetrachloride
Concen: 6.741 ppbv
RT: 3.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:117 Resp: 27667

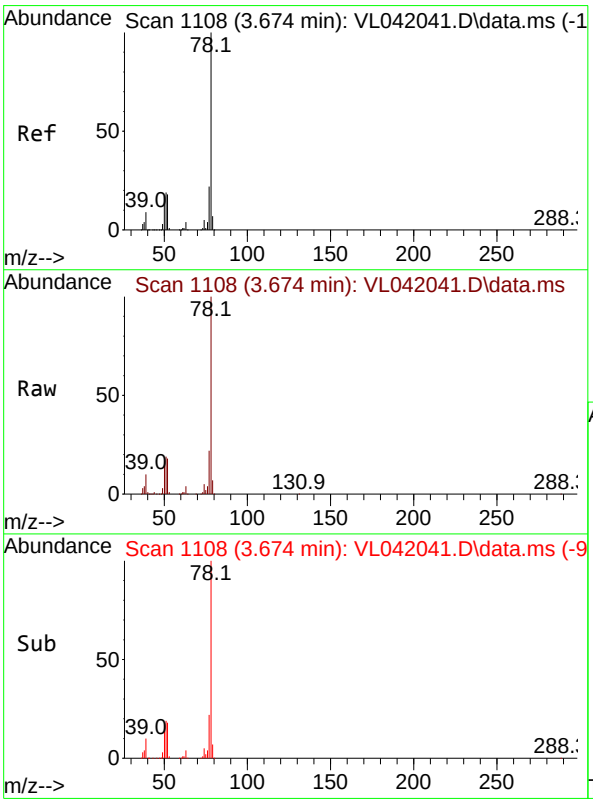
Ion	Ratio	Lower	Upper
117	100		
119	97.3	75.8	113.6
121	29.2	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

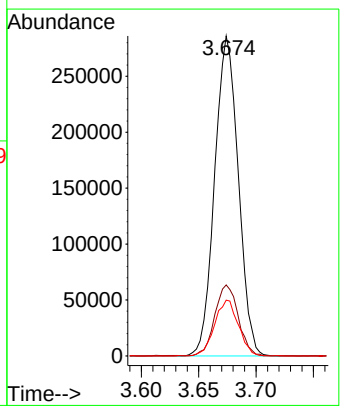
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

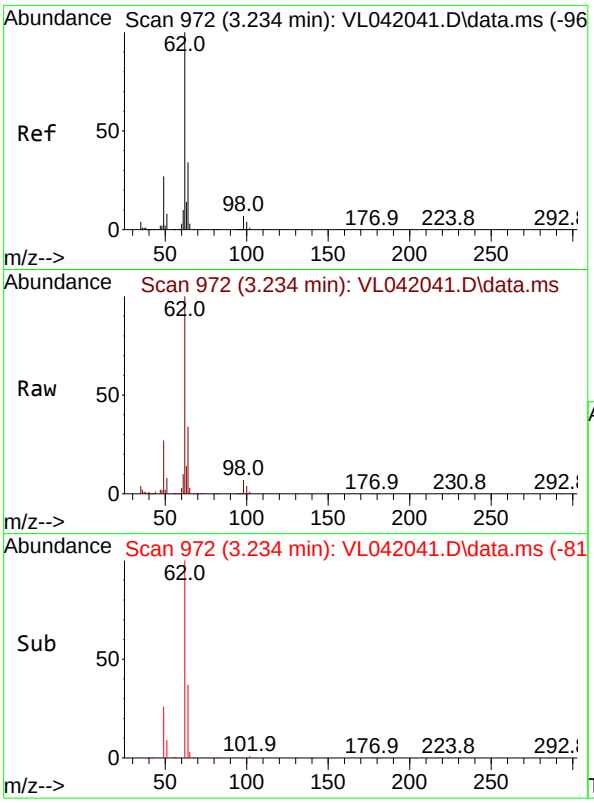


#36
Benzene
Concen: 7.999 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 78 Resp: 409501

Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.0	27.0
50	17.4	15.2	22.8

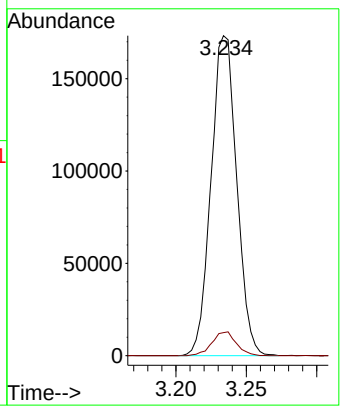




#37
1,2-Dichloroethane
Concen: 7.543 ppbv
RT: 3.234 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 62 Resp: 21982

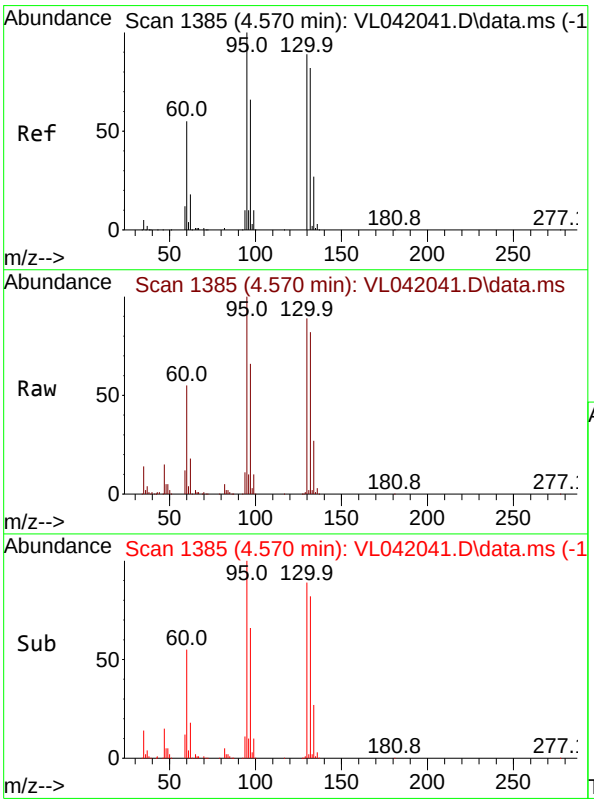
Ion	Ratio	Lower	Upper
62	100		
98	7.1	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

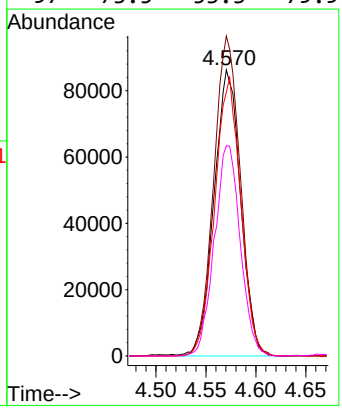
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

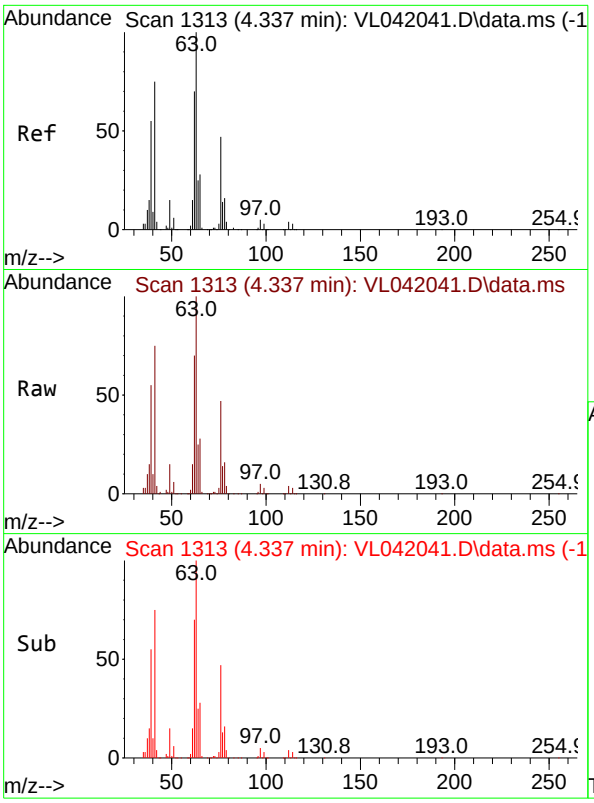


#38
Trichloroethene
Concen: 7.689 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:130 Resp: 159933

Ion	Ratio	Lower	Upper
130	100		
95	111.9	82.8	124.2
132	92.2	70.0	105.0
97	73.5	53.3	79.9

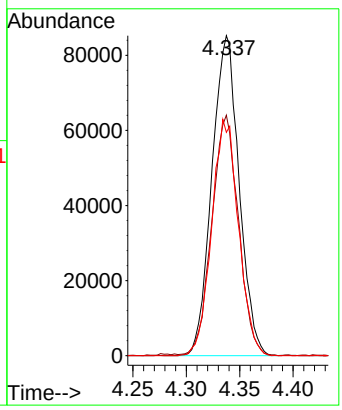




#39
1,2-Dichloropropane
Concen: 8.047 ppbv
RT: 4.337 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 63 Resp: 15103

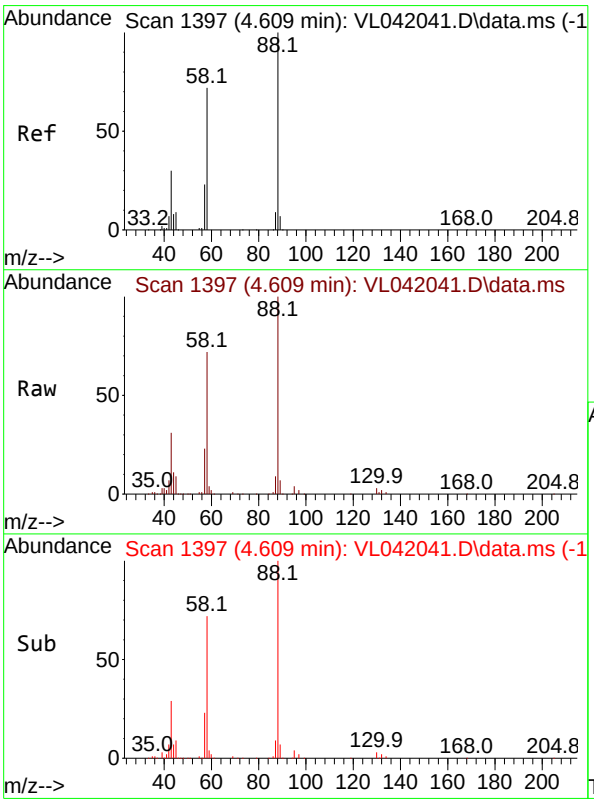
Ion	Ratio	Lower	Upper
63	100		
41	75.1	60.1	90.1
62	69.8	54.0	81.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

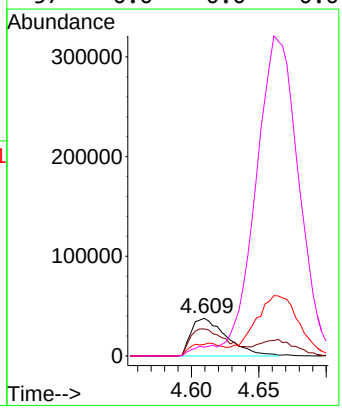
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

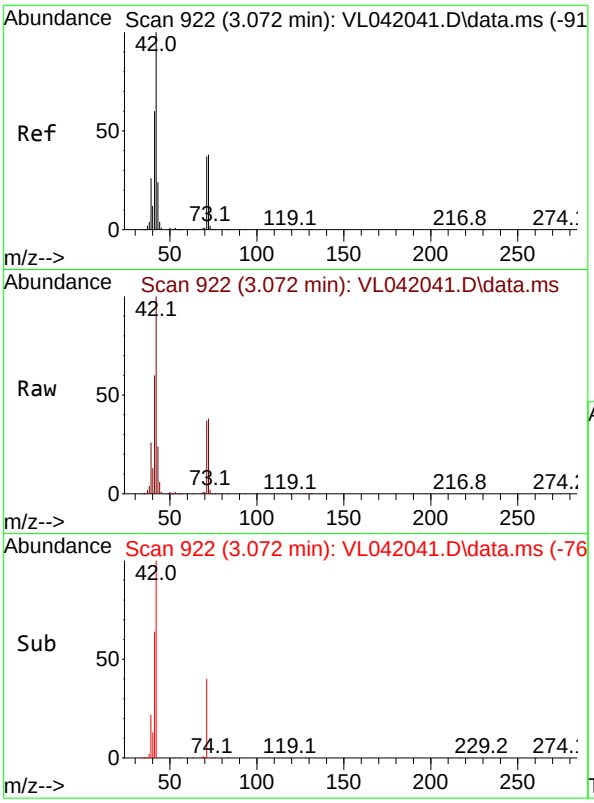


#40
1,4-Dioxane
Concen: 7.105 ppbv
RT: 4.609 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 88 Resp: 69399

Ion	Ratio	Lower	Upper
88	100		
58	78.3	58.1	87.1
43	0.0	27.3	40.9#
57	0.0	0.0	0.0

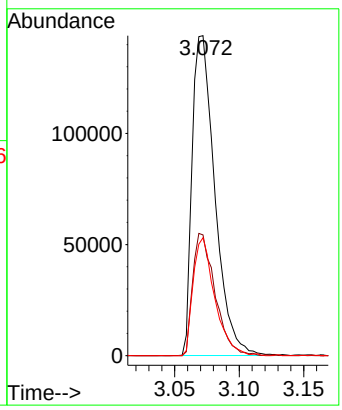




#41
Tetrahydrofuran
Concen: 8.509 ppbv
RT: 3.072 min Scan# 9
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 42 Resp: 17683

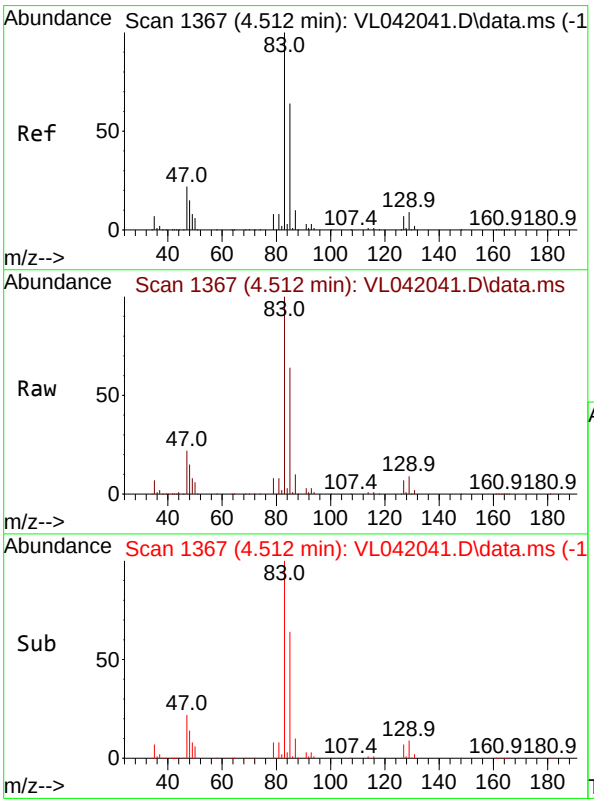
Ion	Ratio	Lower	Upper
42	100		
72	37.7	32.3	48.5
71	35.3	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

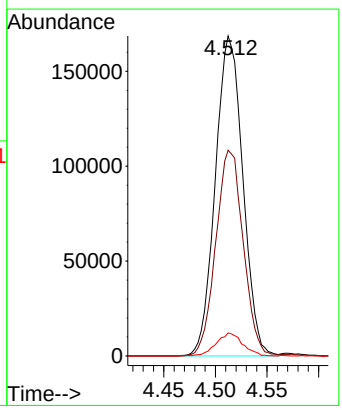
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

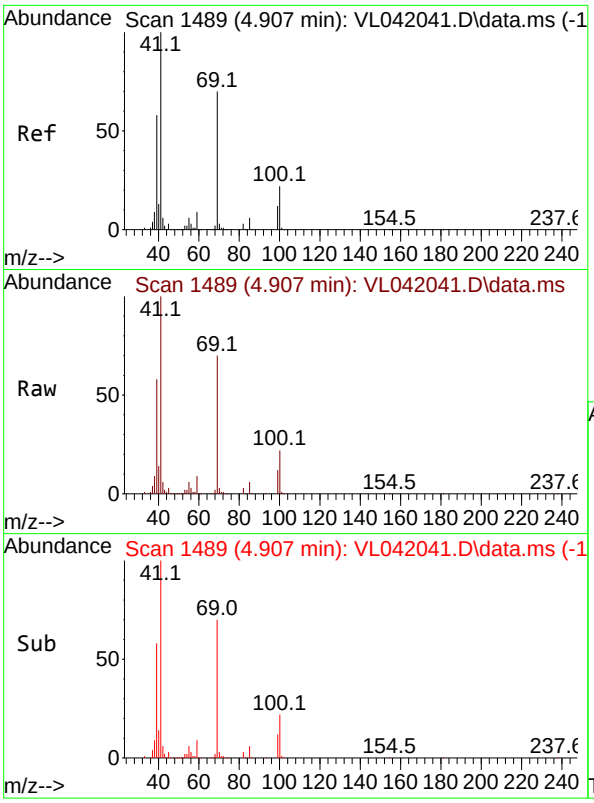


#42
Bromodichloromethane
Concen: 7.908 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 83 Resp: 312250

Ion	Ratio	Lower	Upper
83	100		
85	64.3	53.3	79.9
127	7.2	6.0	9.0

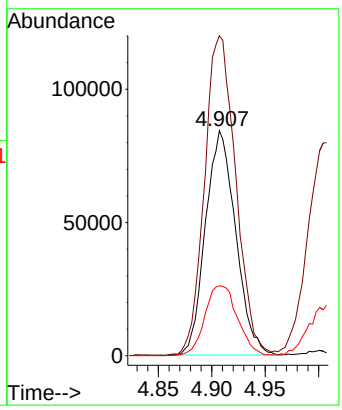




#43
Methyl Methacrylate
Concen: 7.091 ppbv
RT: 4.907 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 69 Resp: 16549

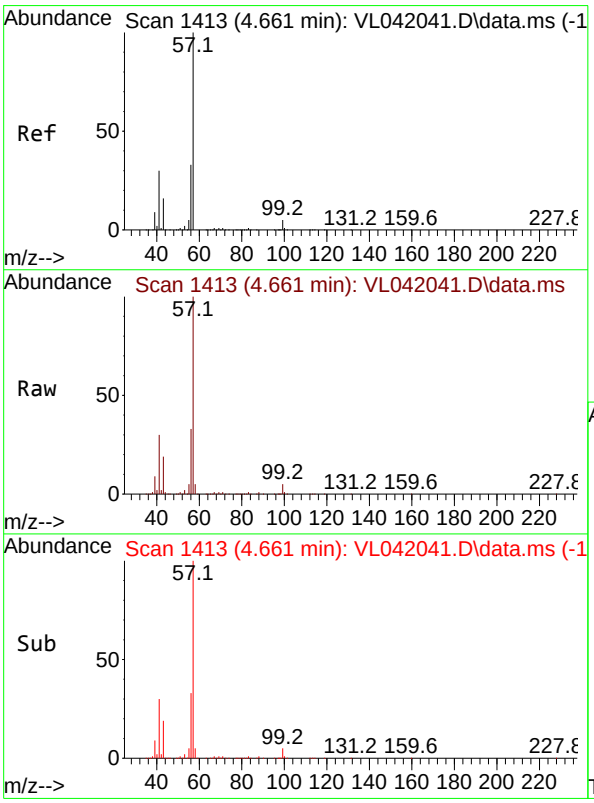
Ion	Ratio	Lower	Upper
69	100		
41	147.8	114.9	172.3
100	33.7	28.8	43.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

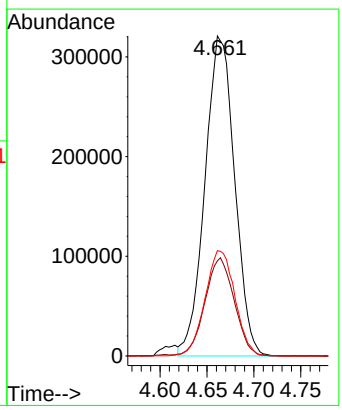
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

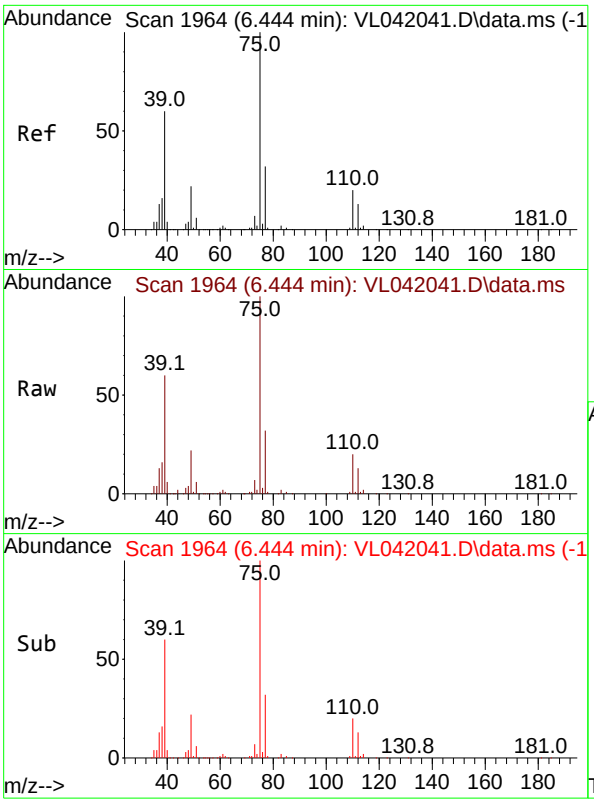


#44
2,2,4-Trimethylpentane
Concen: 8.122 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 57 Resp: 705920

Ion	Ratio	Lower	Upper
57	100		
41	30.5	25.9	38.9
56	33.1	24.9	37.3

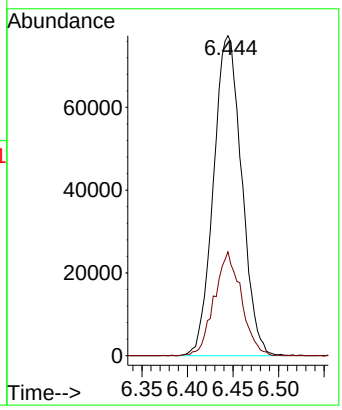




#45
t-1,3-Dichloropropene
Concen: 7.544 ppbv
RT: 6.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 75 Resp: 16620

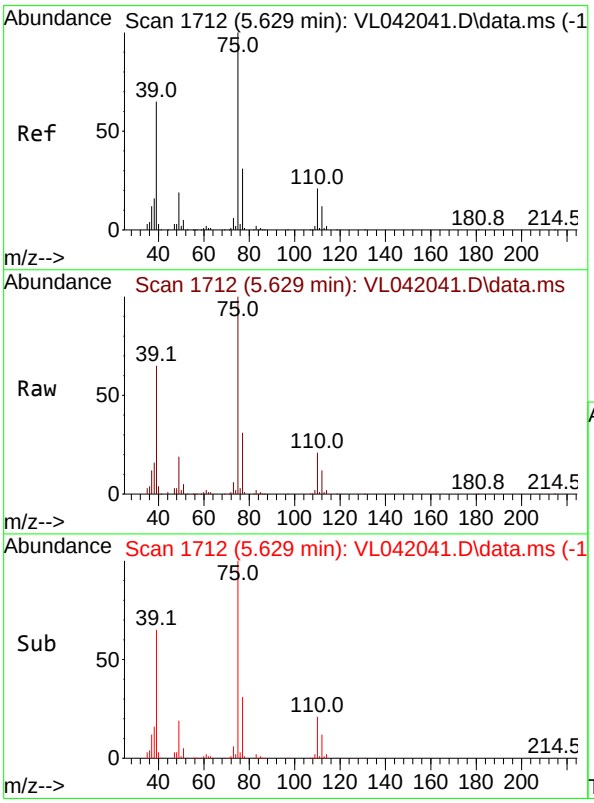
Ion	Ratio	Lower	Upper
75	100		
77	32.4	22.1	33.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

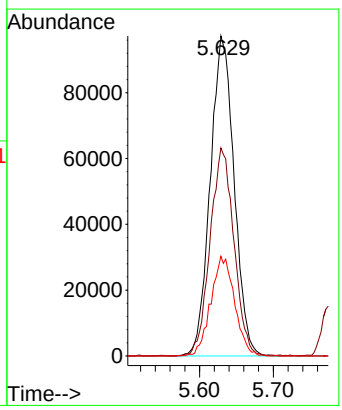
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

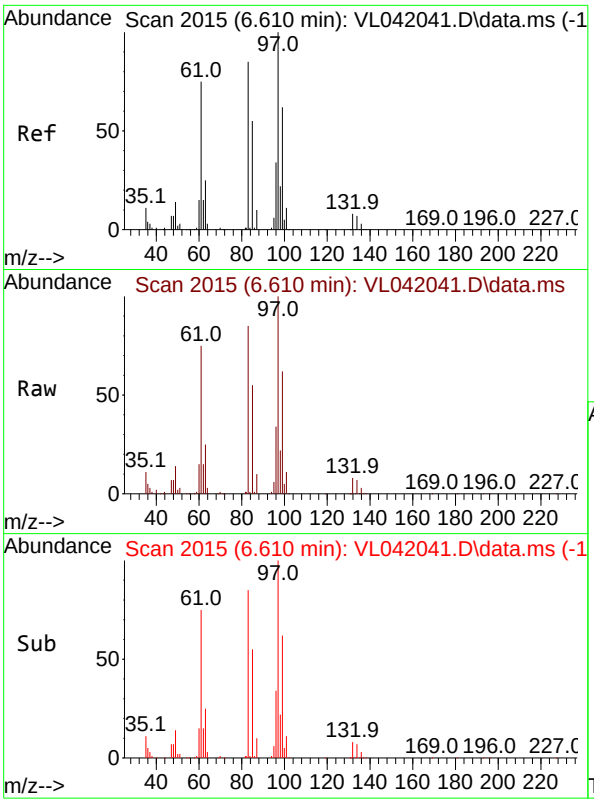


#46
cis-1,3-Dichloropropene
Concen: 7.809 ppbv
RT: 5.629 min Scan# 1712
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 75 Resp: 218294

Ion	Ratio	Lower	Upper
75	100		
39	64.9	52.2	78.4
77	31.1	24.5	36.7

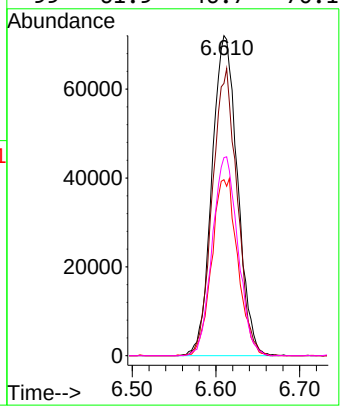




#47
1,1,2-Trichloroethane
Concen: 7.723 ppbv
RT: 6.610 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 97 Resp: 15255

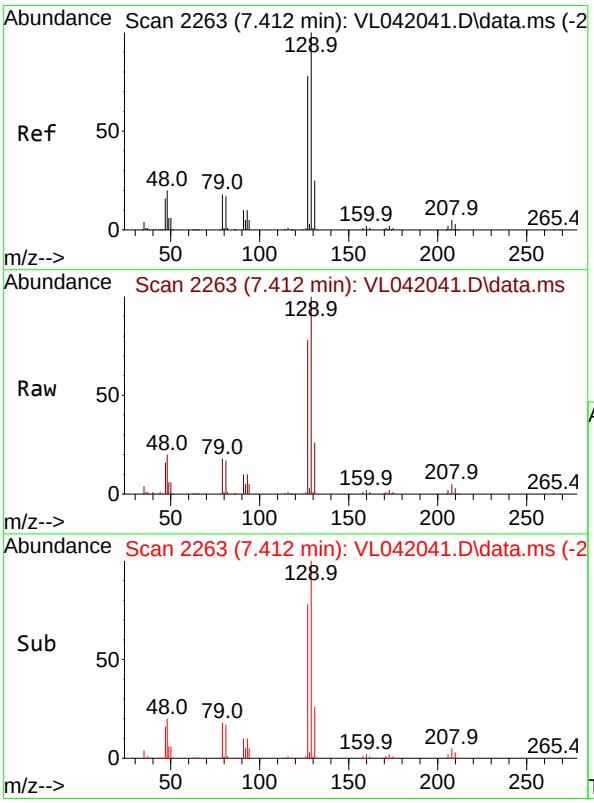
Ion	Ratio	Lower	Upper
97	100		
83	85.1	68.6	102.8
85	55.0	42.2	63.4
99	61.9	46.7	70.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

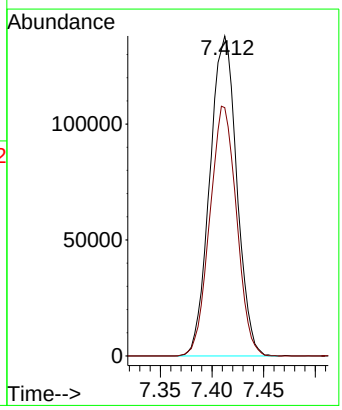
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

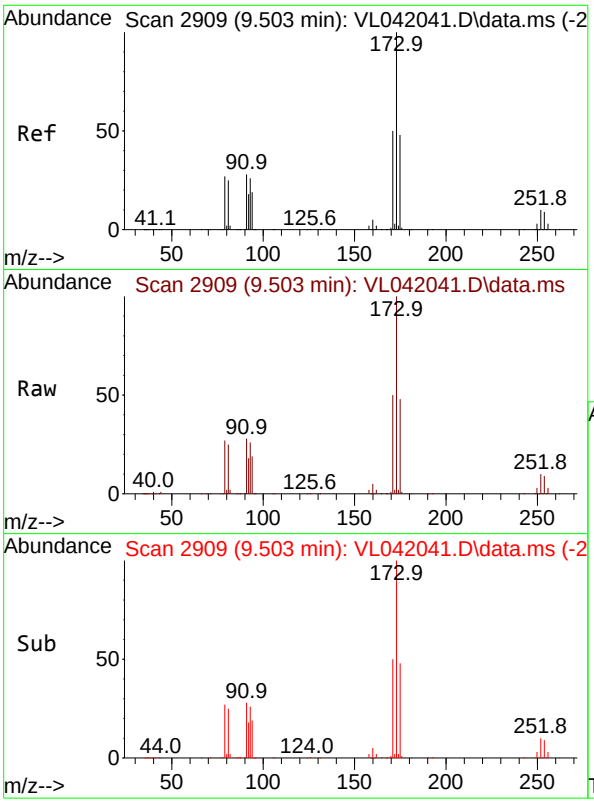


#48
Dibromochloromethane
Concen: 7.593 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:129 Resp: 251213

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.2	114.6

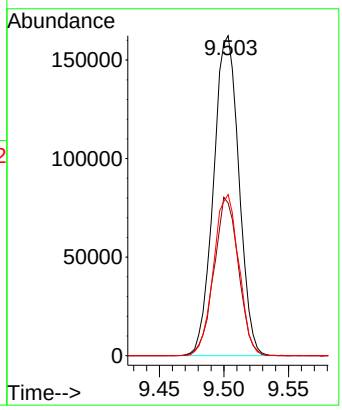




#49
Bromoform
Concen: 8.183 ppbv
RT: 9.503 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:173 Resp: 22205

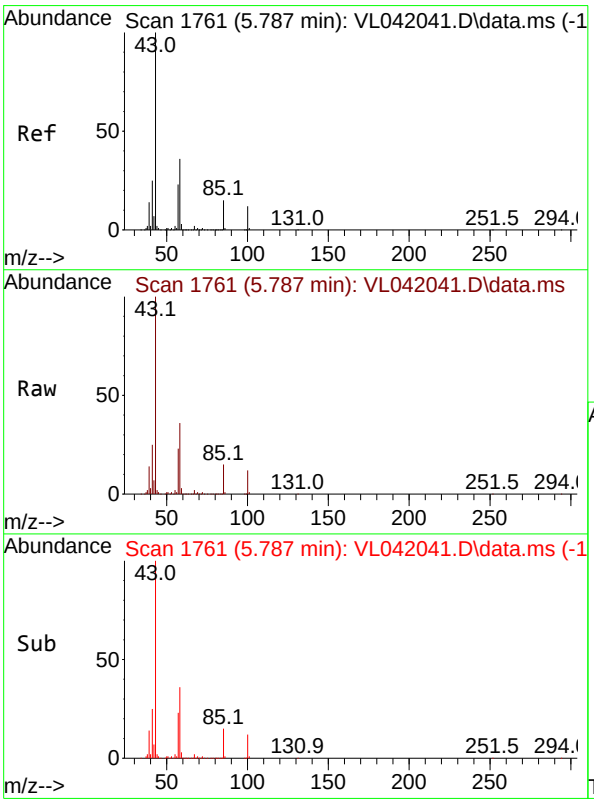
Ion	Ratio	Lower	Upper
173	100		
175	47.9	39.3	58.9
171	50.2	41.4	62.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

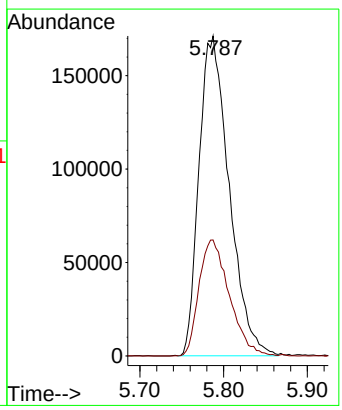
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

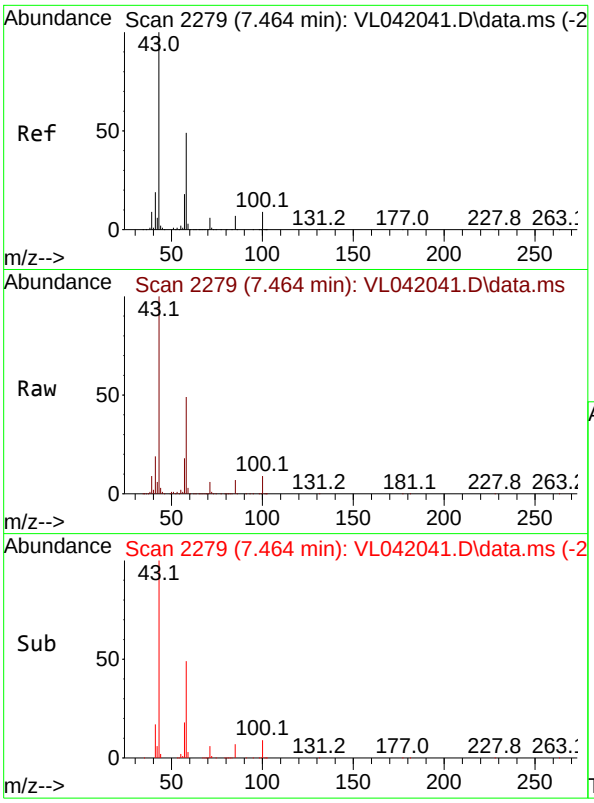


#50
4-Methyl-2-Pentanone
Concen: 7.666 ppbv
RT: 5.787 min Scan# 1761
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 43 Resp: 428434

Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.4	44.0

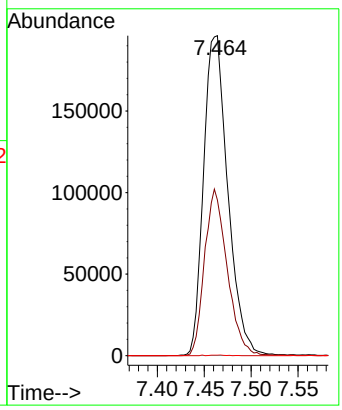




#51
2-Hexanone
Concen: 7.709 ppbv
RT: 7.464 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 43 Resp: 35233

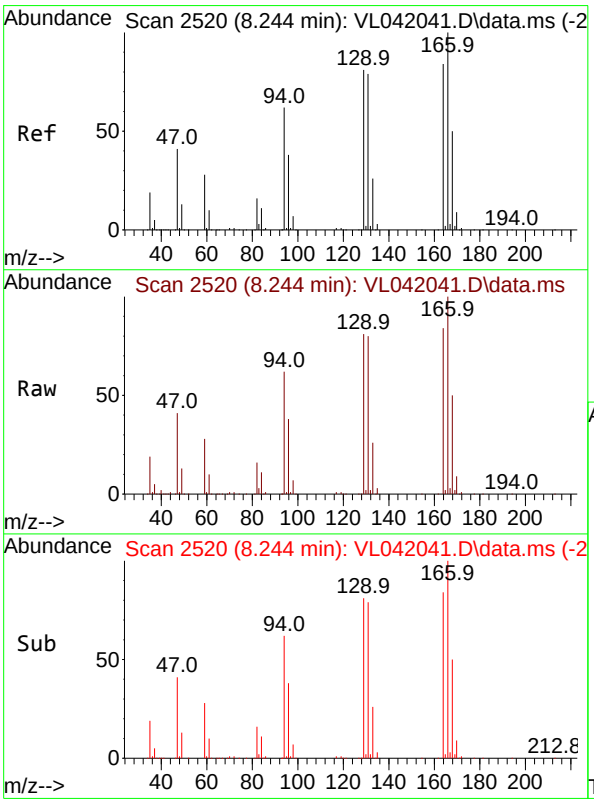
Ion	Ratio	Lower	Upper
43	100		
58	48.8	41.4	62.0
98	0.1	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

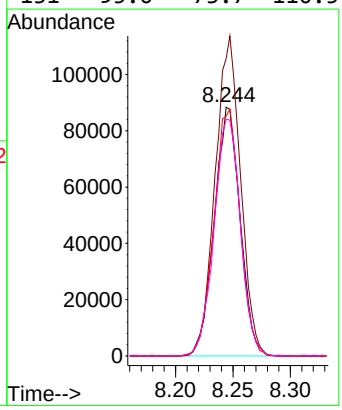
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

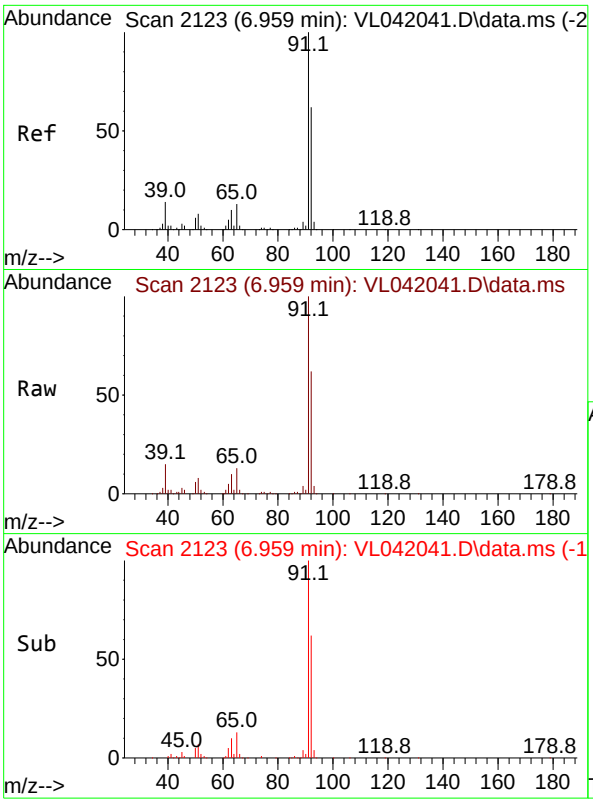


#52
Tetrachloroethene
Concen: 7.743 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:164 Resp: 138263

Ion	Ratio	Lower	Upper
164	100		
166	119.6	102.2	153.2
129	96.4	82.2	123.4
131	95.0	73.7	110.5

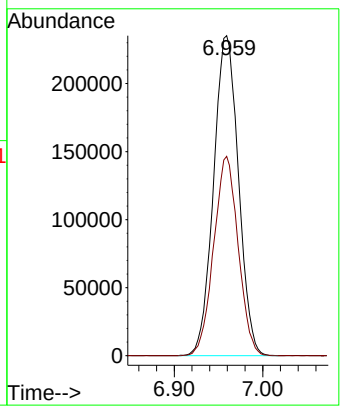




#53
Toluene
Concen: 7.541 ppbv
RT: 6.959 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 46004

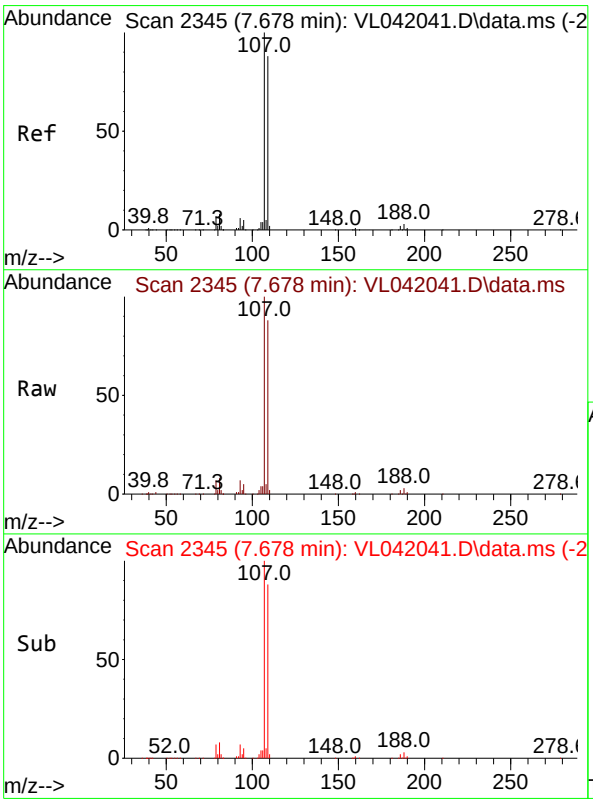
Ion	Ratio	Lower	Upper
91	100		
92	61.3	47.5	71.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

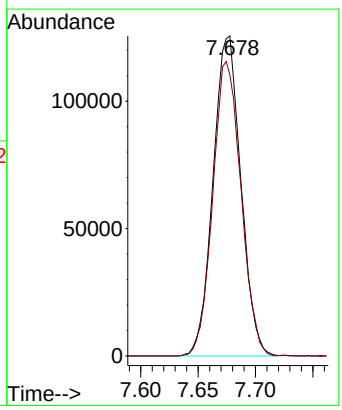
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

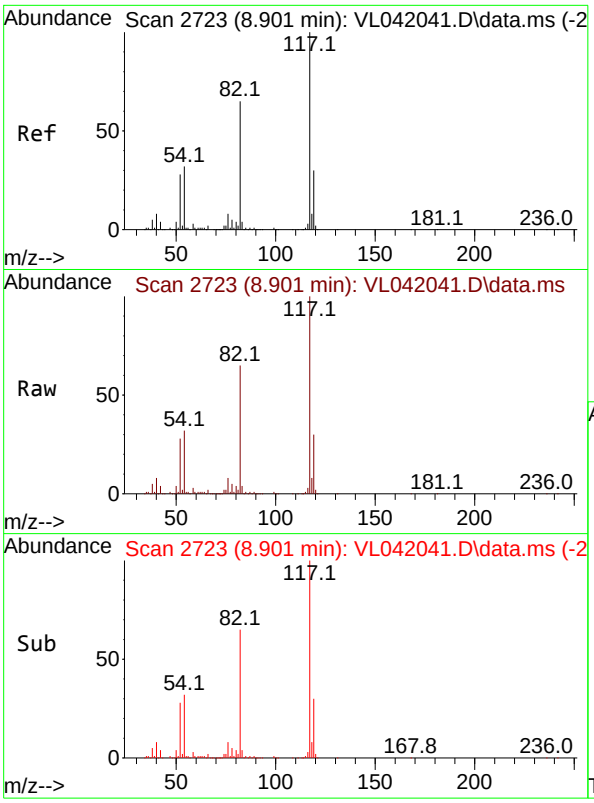


#54
1,2-Dibromoethane
Concen: 7.772 ppbv
RT: 7.678 min Scan# 2345
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:107 Resp: 211395

Ion	Ratio	Lower	Upper
107	100		
109	87.8	71.5	107.3

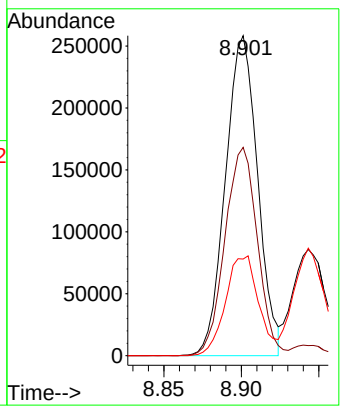




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:117 Resp: 37424

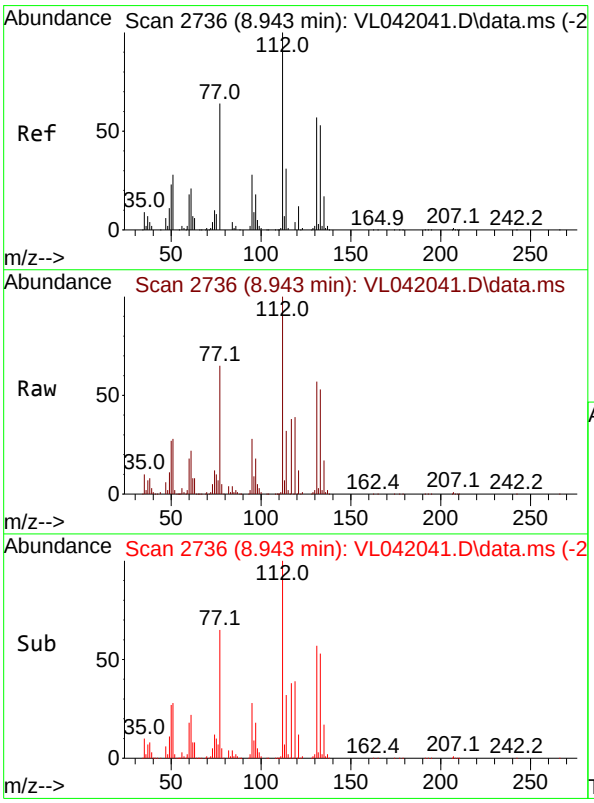
Ion	Ratio	Lower	Upper
117	100		
82	68.8	55.7	83.5
119	32.4	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

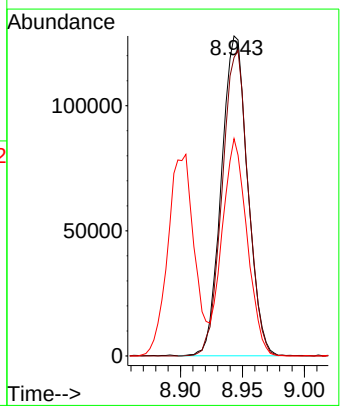
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

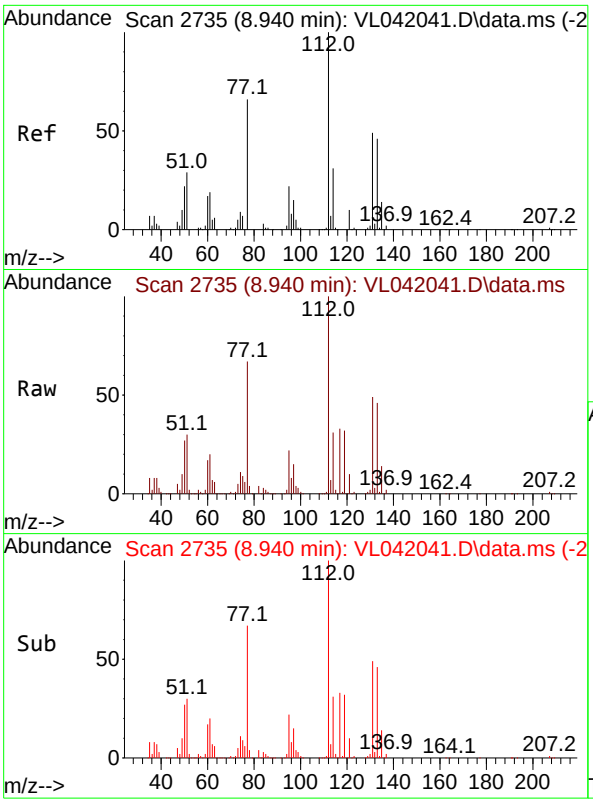


#56
1,1,1,2-Tetrachloroethane
Concen: 7.049 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:131 Resp: 188811

Ion	Ratio	Lower	Upper
131	100		
133	94.8	77.8	116.8
119	65.1	49.1	73.7

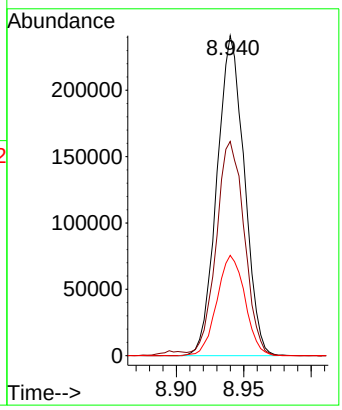




#57
Chlorobenzene
Concen: 7.735 ppbv
RT: 8.940 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:112 Resp: 34052

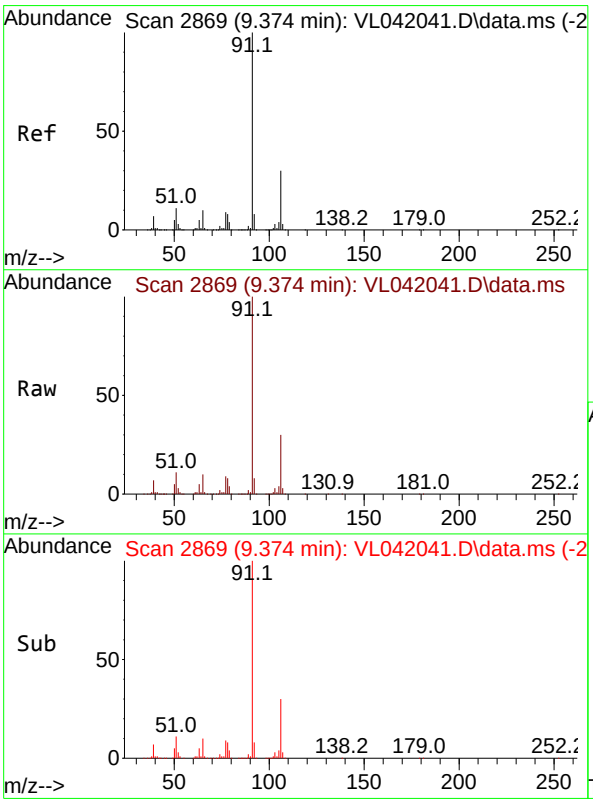
Ion	Ratio	Lower	Upper
112	100		
77	66.8	56.2	84.2
114	31.4	28.2	34.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

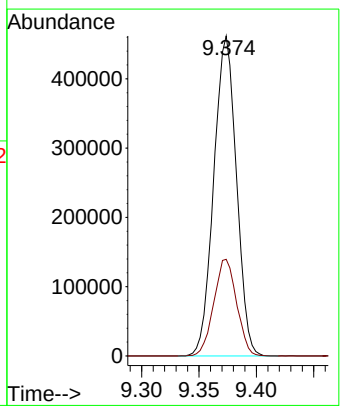
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

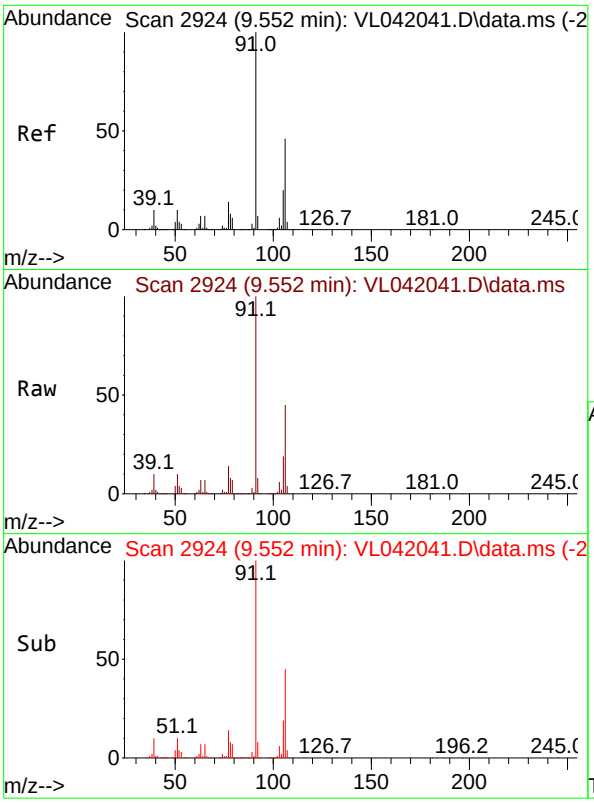


#58
Ethyl Benzene
Concen: 7.739 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 633939

Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.1	34.7

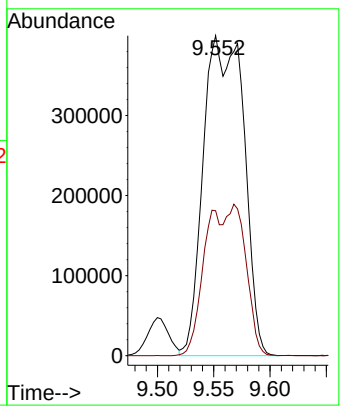




#59
m/p-Xylene
Concen: 15.427 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 99525

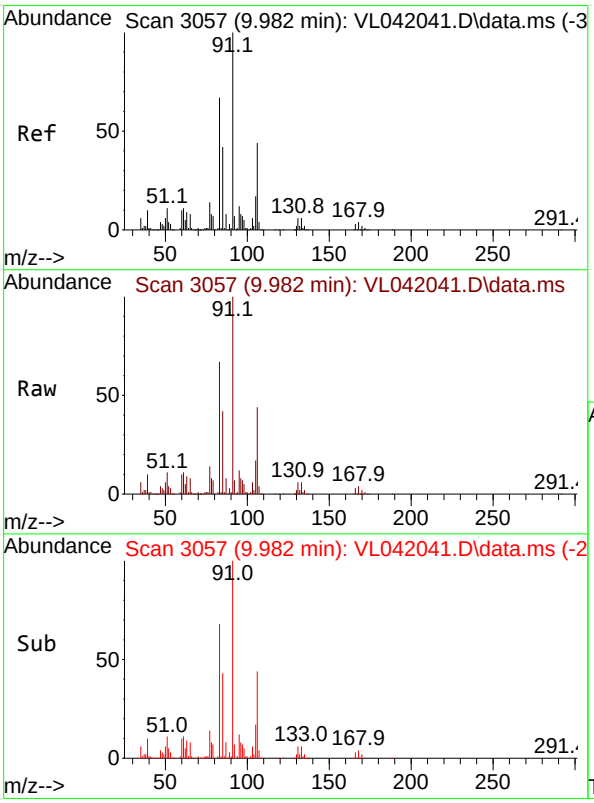
Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.8	53.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

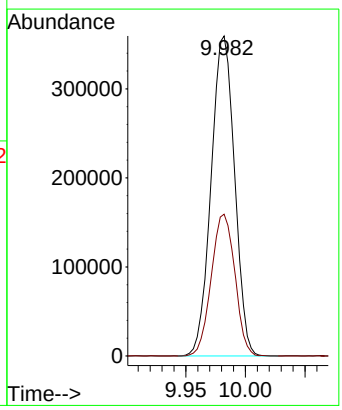
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

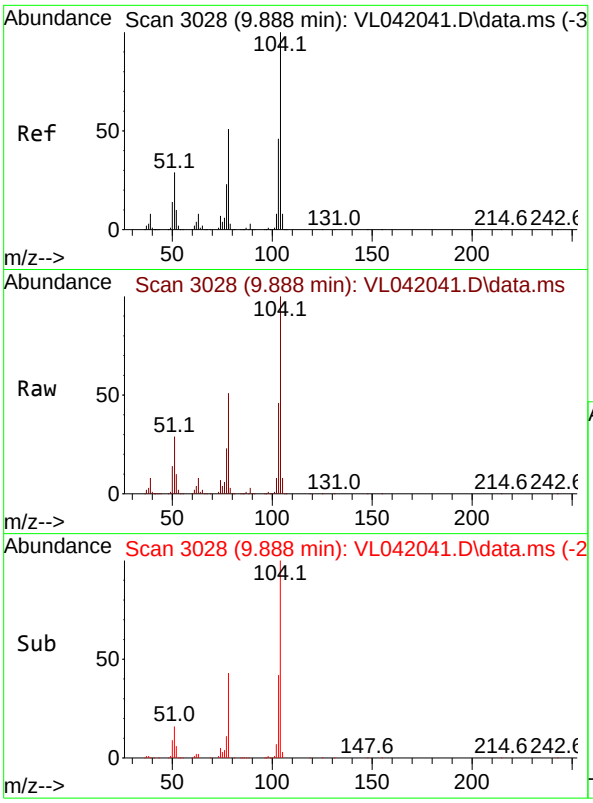


#60
o-Xylene
Concen: 7.557 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 493069

Ion	Ratio	Lower	Upper
91	100		
106	44.5	21.4	64.3

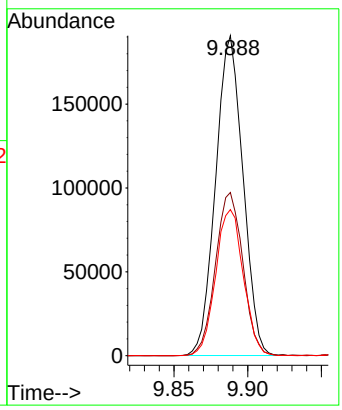




#61
Styrene
Concen: 7.912 ppbv
RT: 9.888 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:104 Resp: 24616

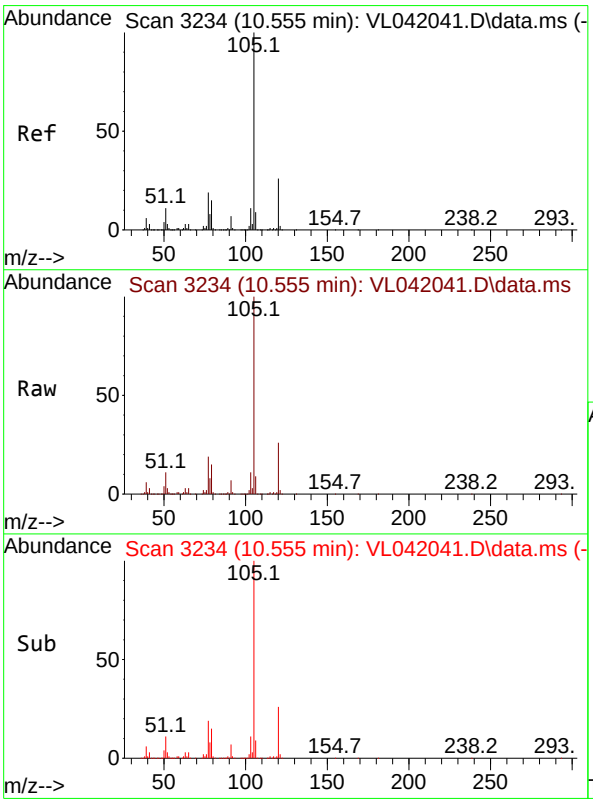
Ion	Ratio	Lower	Upper
104	100		
78	51.2	42.2	63.4
103	46.3	38.1	57.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

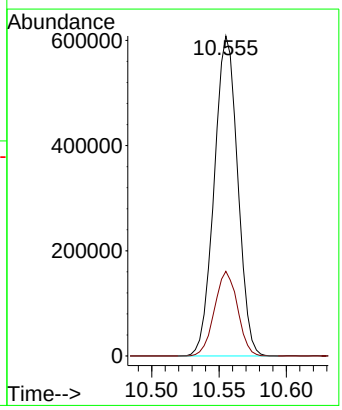
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

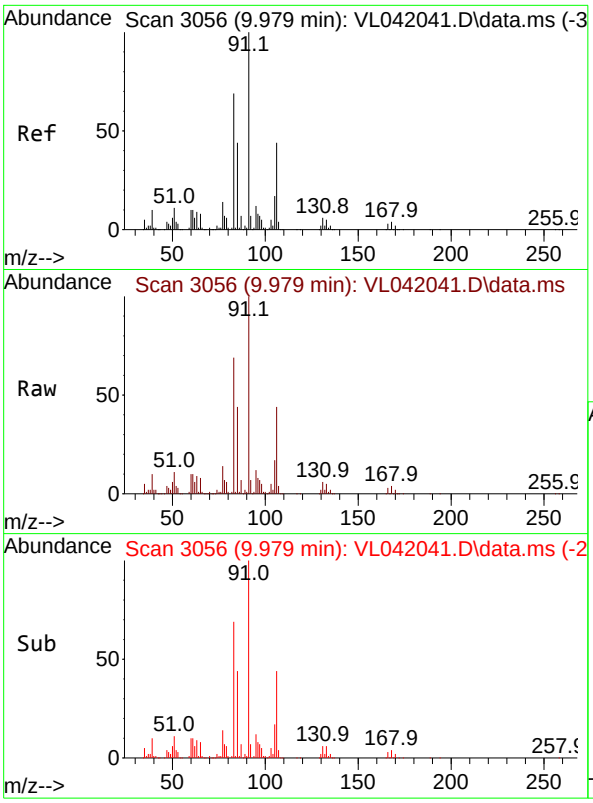


#62
Isopropylbenzene
Concen: 7.522 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:105 Resp: 736884

Ion	Ratio	Lower	Upper
105	100		
120	25.9	19.8	29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 7.538 ppbv
RT: 9.979 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

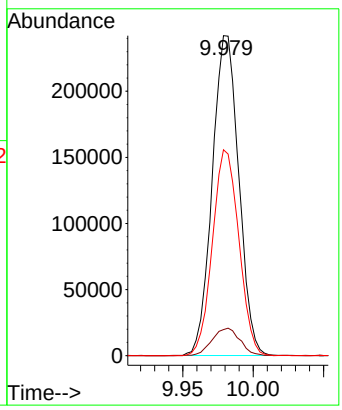
Tgt Ion: 83 Resp: 31731

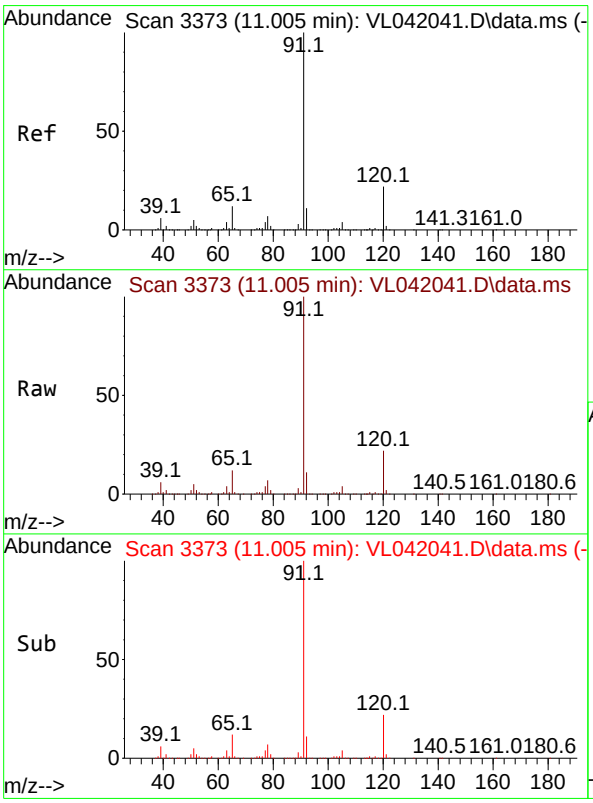
Ion	Ratio	Lower	Upper
83	100		
131	9.1	5.0	15.0
85	64.2	32.1	96.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

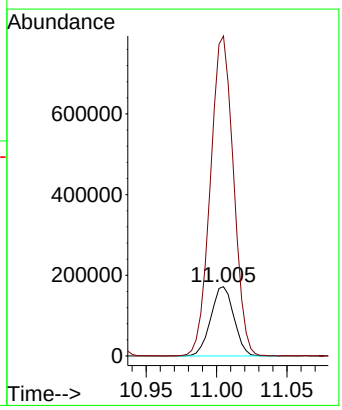


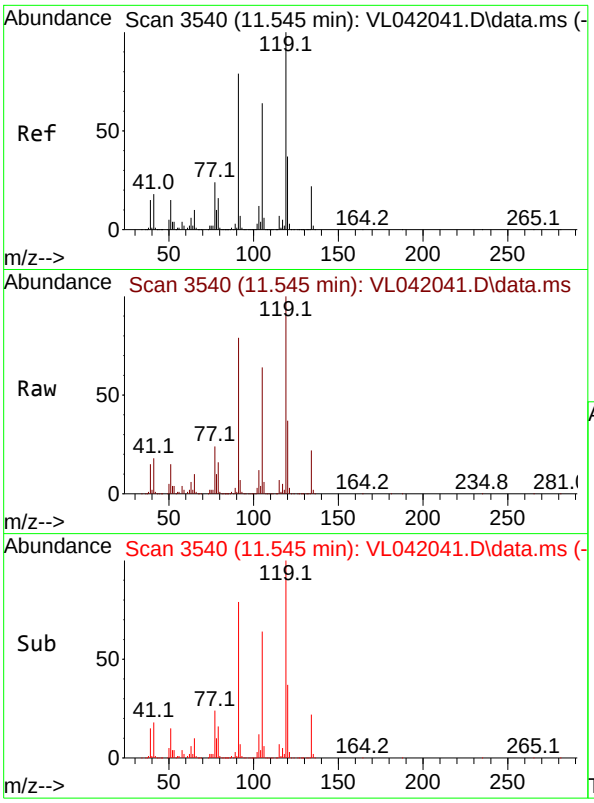


#64
n-propylbenzene
Concen: 8.145 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:120 Resp: 196044

Ion	Ratio	Lower	Upper
120	100		
91	463.3	392.2	588.2





#65
tert-Butylbenzene
Concen: 7.596 ppbv
RT: 11.545 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

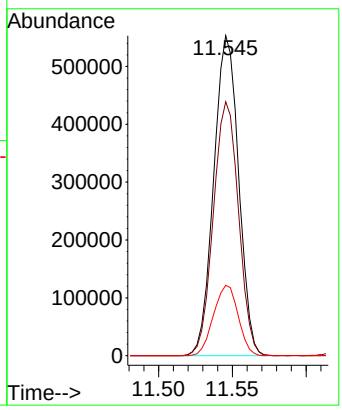
Tgt Ion:119 Resp: 64869

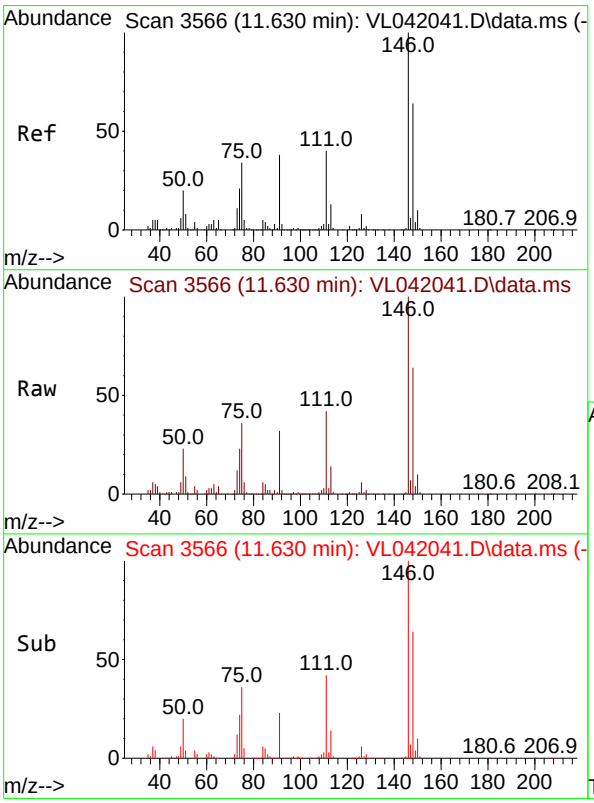
Ion	Ratio	Lower	Upper
119	100		
91	80.2	66.5	99.7
134	21.8	16.6	24.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

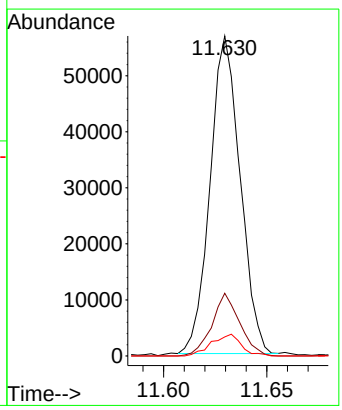


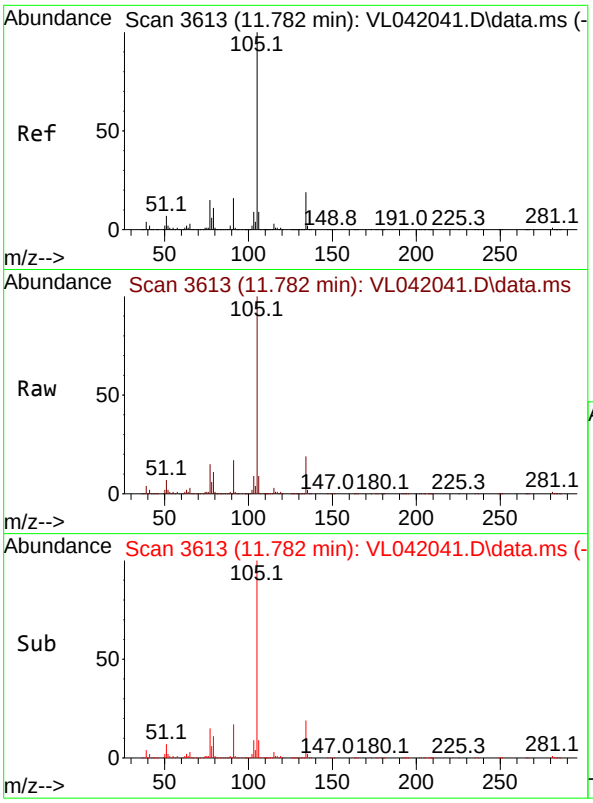


#66
Benzyl Chloride
Concen: 6.699 ppbv
RT: 11.630 min Scan# 3566
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 57345

Ion	Ratio	Lower	Upper
91	100		
126	18.1	13.8	20.6
128	6.8	4.1	6.1#

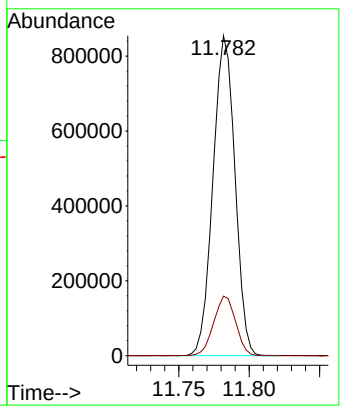




#67
sec-Butylbenzene
Concen: 7.744 ppbv
RT: 11.782 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:105 Resp: 92886

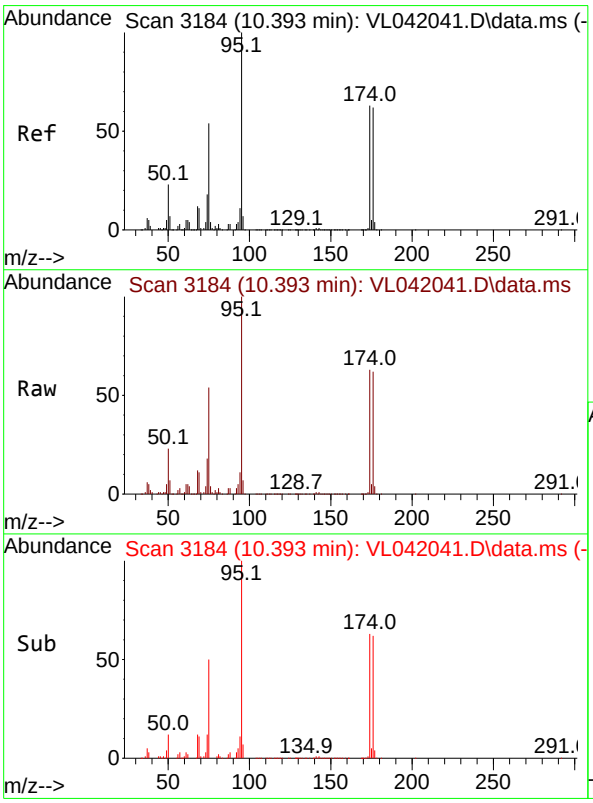
Ion	Ratio	Lower	Upper
105	100		
134	18.6	14.7	22.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

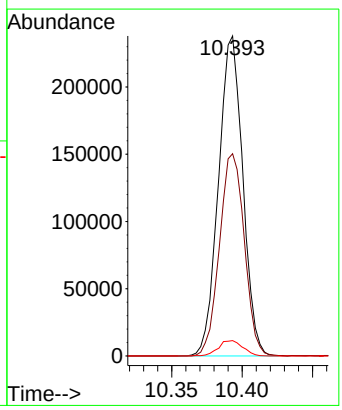
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

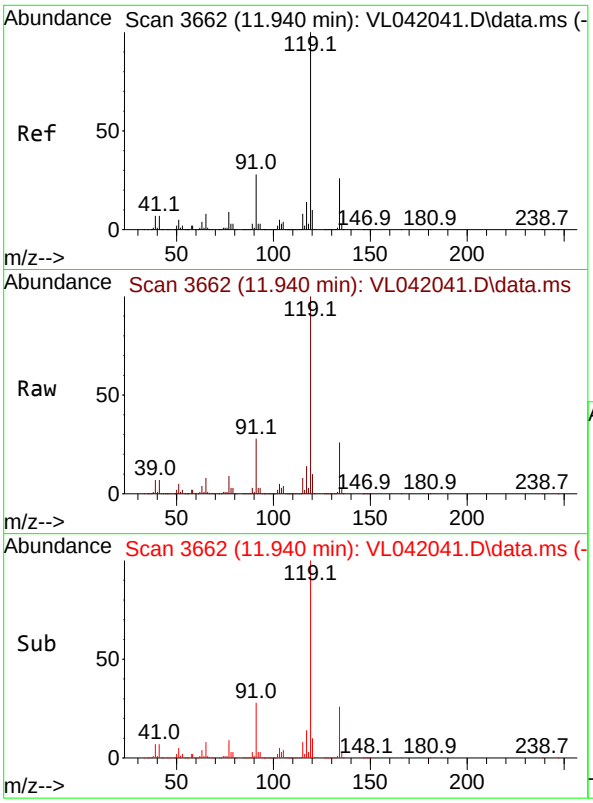


#68
1-Bromo-4-Fluorobenzene
Concen: 9.263 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 95 Resp: 285943

Ion	Ratio	Lower	Upper
95	100		
174	64.7	46.7	70.1
175	4.9	3.7	5.5

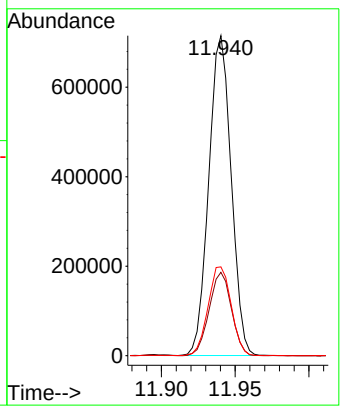




#69
p-Isopropyltoluene
Concen: 7.702 ppbv
RT: 11.940 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:119 Resp: 75626

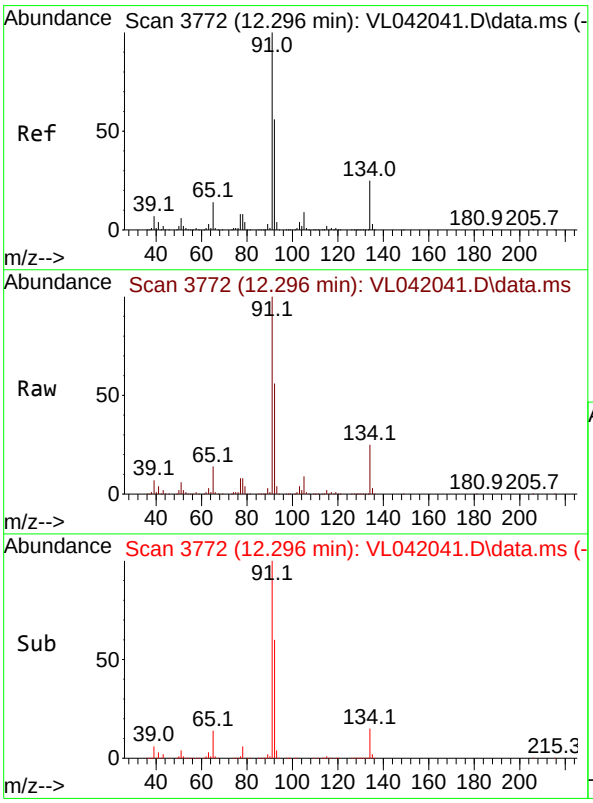
Ion	Ratio	Lower	Upper
119	100		
134	26.1	19.4	29.0
91	28.9	23.4	35.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

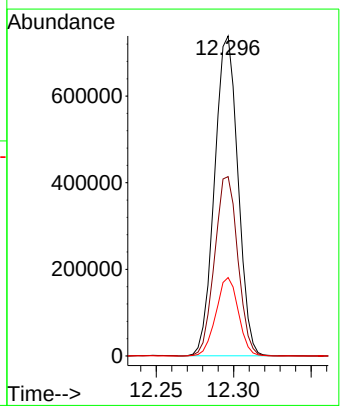
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

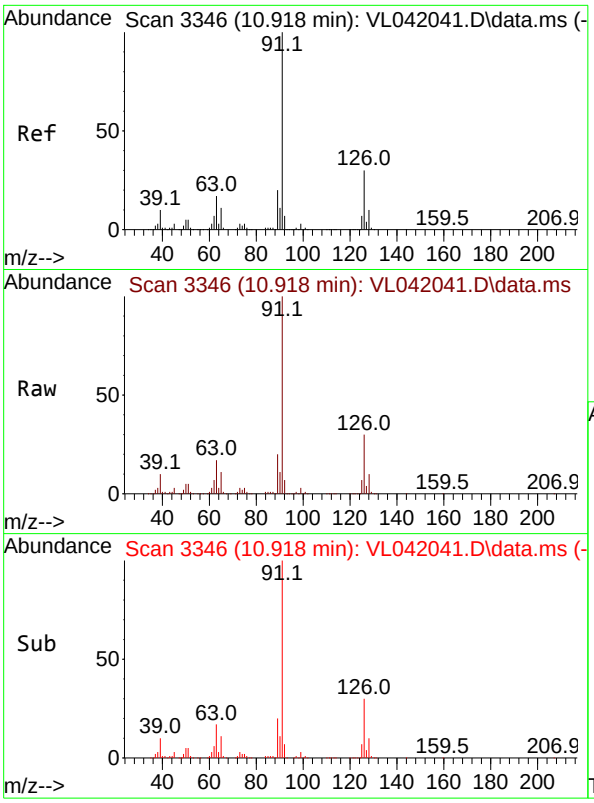


#70
n-Butylbenzene
Concen: 8.009 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 774646

Ion	Ratio	Lower	Upper
91	100		
92	55.9	43.8	65.8
134	23.6	18.6	27.8

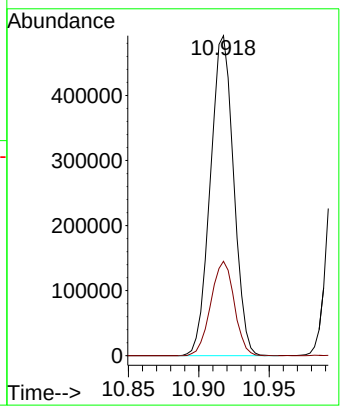




#71
2-Chlorotoluene
Concen: 7.681 ppbv
RT: 10.918 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 56661

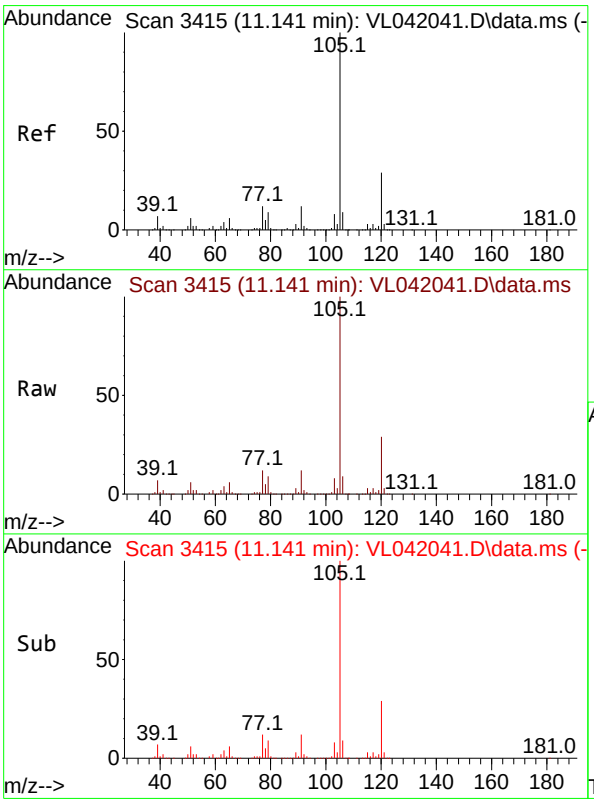
Ion	Ratio	Lower	Upper
91	100		
126	29.7	11.2	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

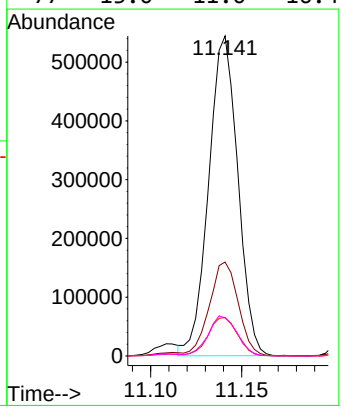
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

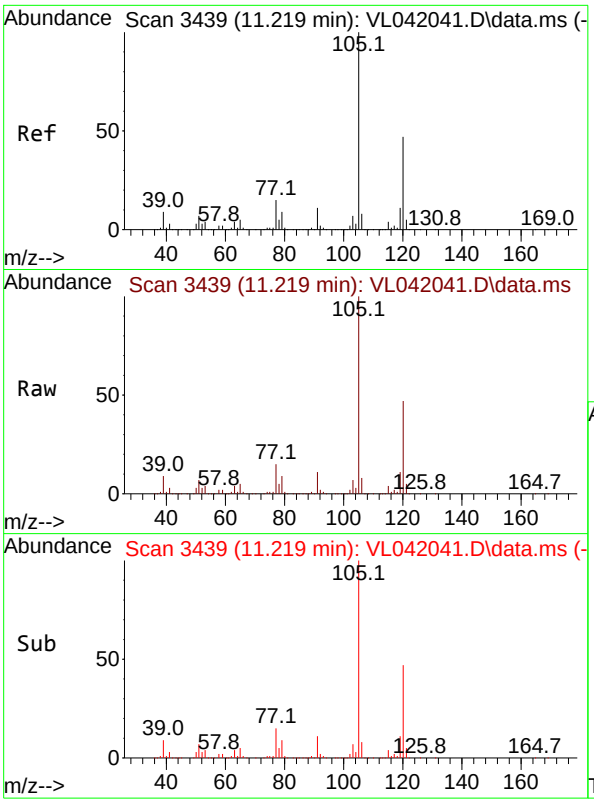


#72
4-Ethyltoluene
Concen: 7.934 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:105 Resp: 606538

Ion	Ratio	Lower	Upper
105	100		
120	30.1	22.7	34.1
91	12.8	10.2	15.2
77	13.0	11.0	16.4

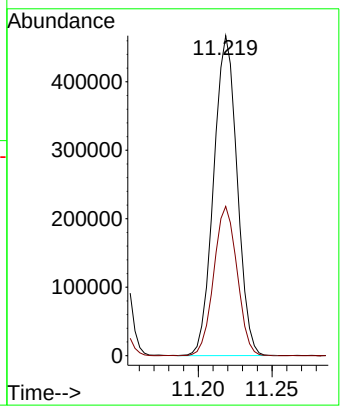




#73
1,3,5-Trimethylbenzene
Concen: 7.838 ppbv
RT: 11.219 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:105 Resp: 516875

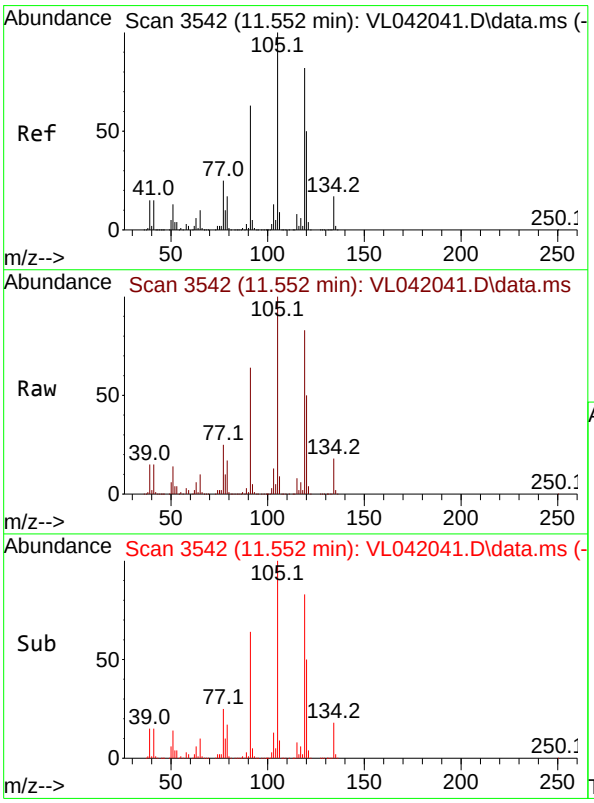
Ion	Ratio	Lower	Upper
105	100		
120	46.7	37.1	55.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

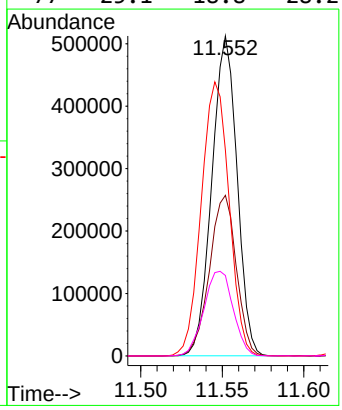
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

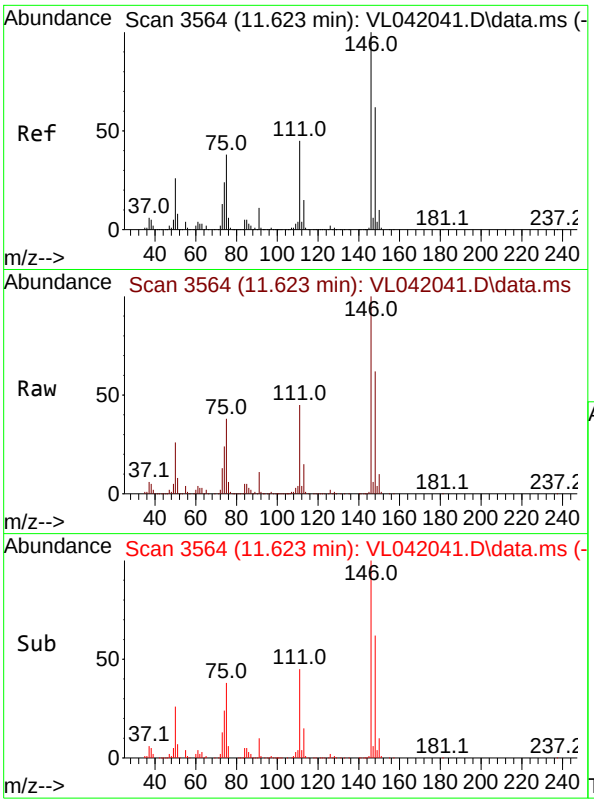


#74
1,2,4-Trimethylbenzene
Concen: 7.777 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:105 Resp: 550412

Ion	Ratio	Lower	Upper
105	100		
120	50.2	37.5	56.3
91	64.3	51.7	77.5
77	25.1	18.8	28.2

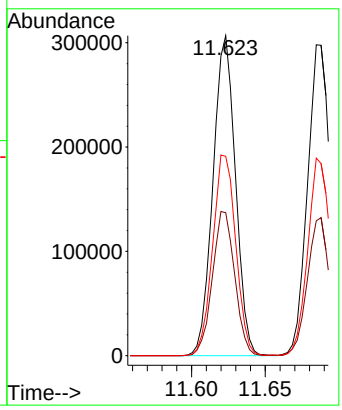




#75
1,3-Dichlorobenzene
Concen: 8.535 ppbv
RT: 11.623 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:146 Resp: 32516

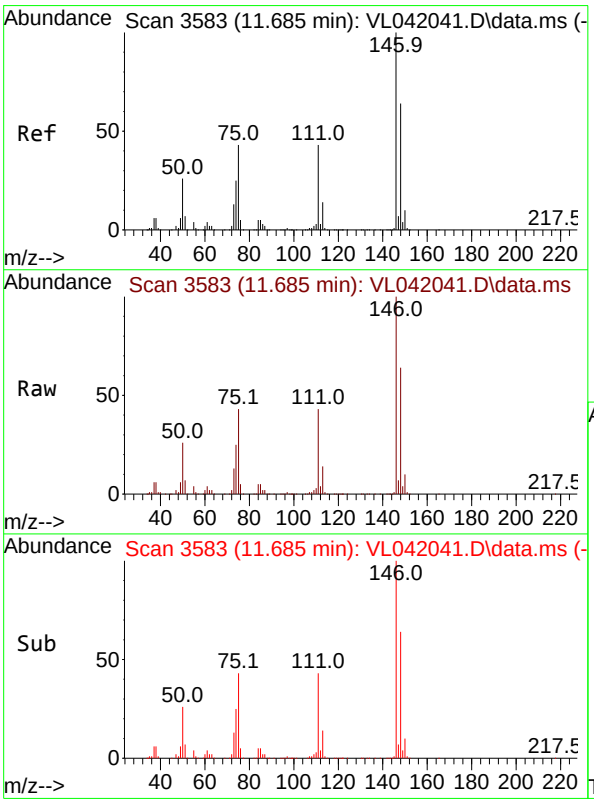
Ion	Ratio	Lower	Upper
146	100		
111	44.8	23.9	71.7
148	64.5	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

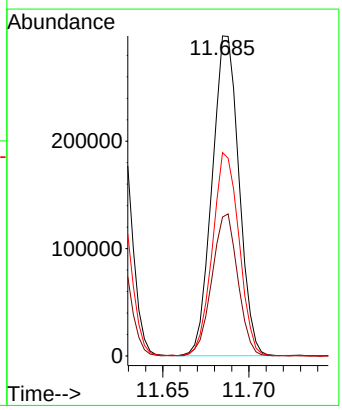
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

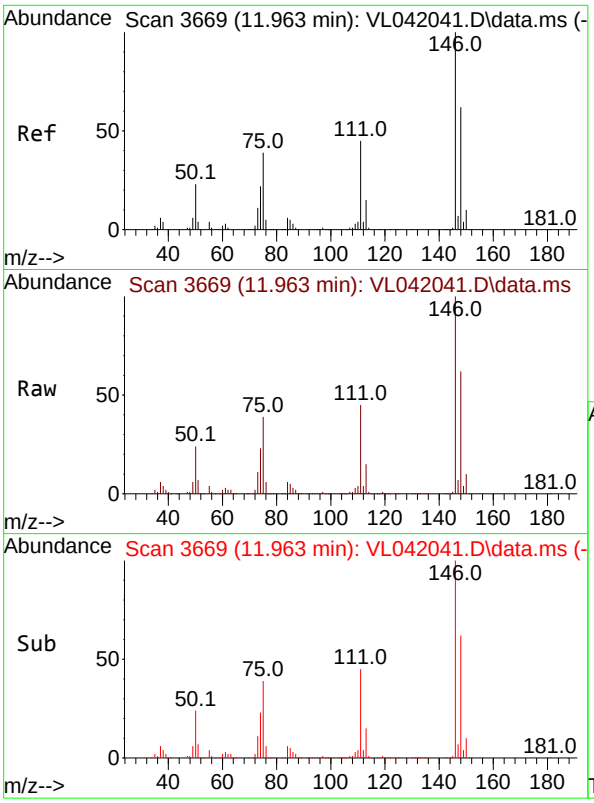


#76
1,4-Dichlorobenzene
Concen: 8.678 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:146 Resp: 322404

Ion	Ratio	Lower	Upper
146	100		
111	43.0	23.5	70.5
148	63.3	32.3	96.9

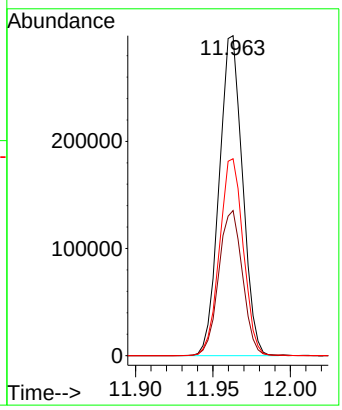




#77
1,2-Dichlorobenzene
Concen: 8.593 ppbv
RT: 11.963 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:146 Resp: 31294

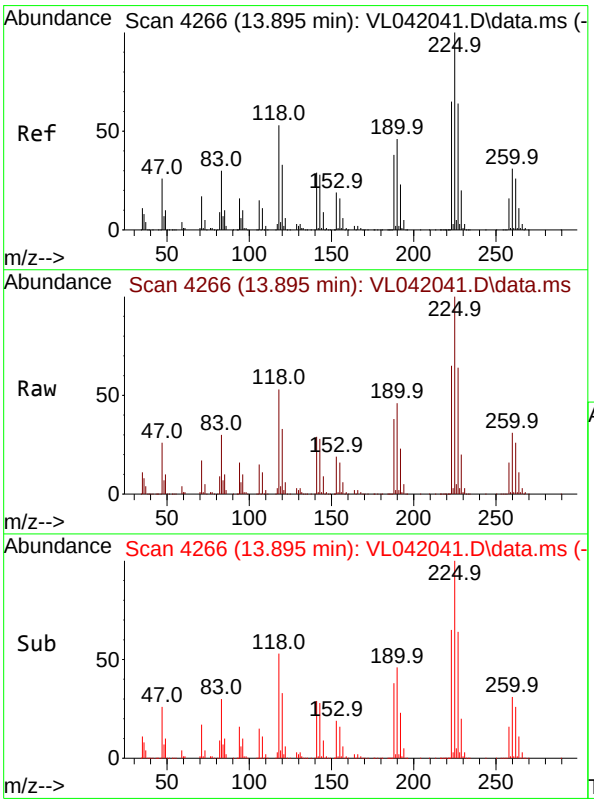
Ion	Ratio	Lower	Upper
146	100		
111	46.4	25.6	76.8
148	62.8	31.9	95.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

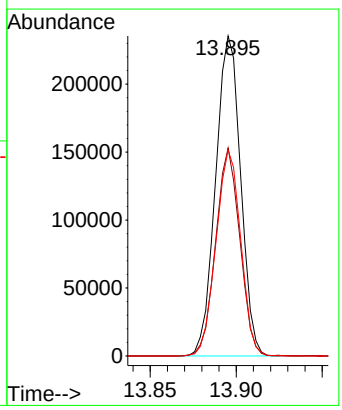
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

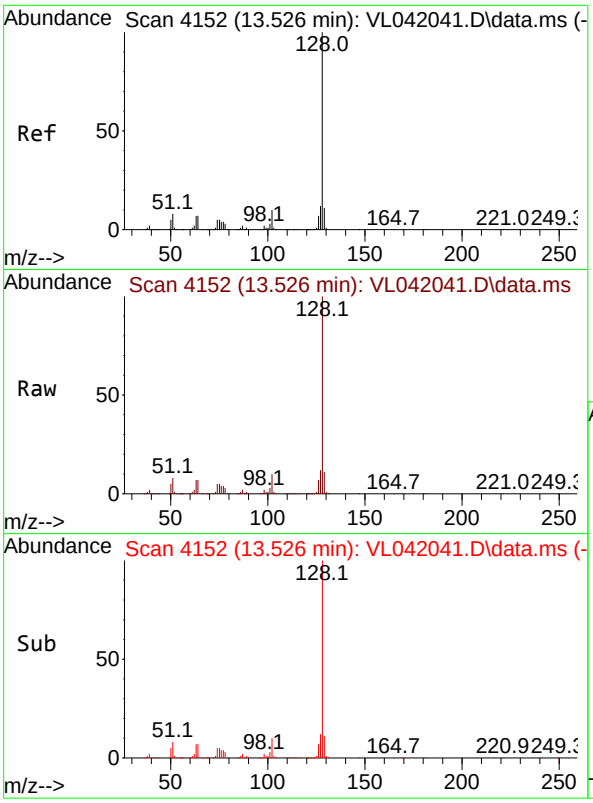


#78
Hexachloro-1,3-Butadiene
Concen: 7.907 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:225 Resp: 238217

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.6	75.8
227	63.5	50.9	76.3

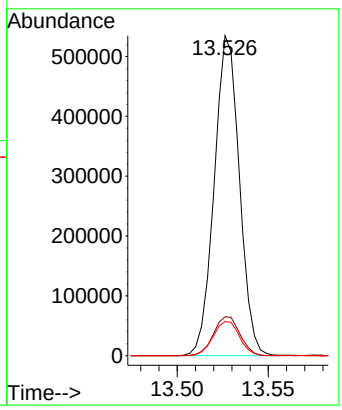




#79
Naphthalene
Concen: 7.372 ppbv
RT: 13.526 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:128 Resp: 51319

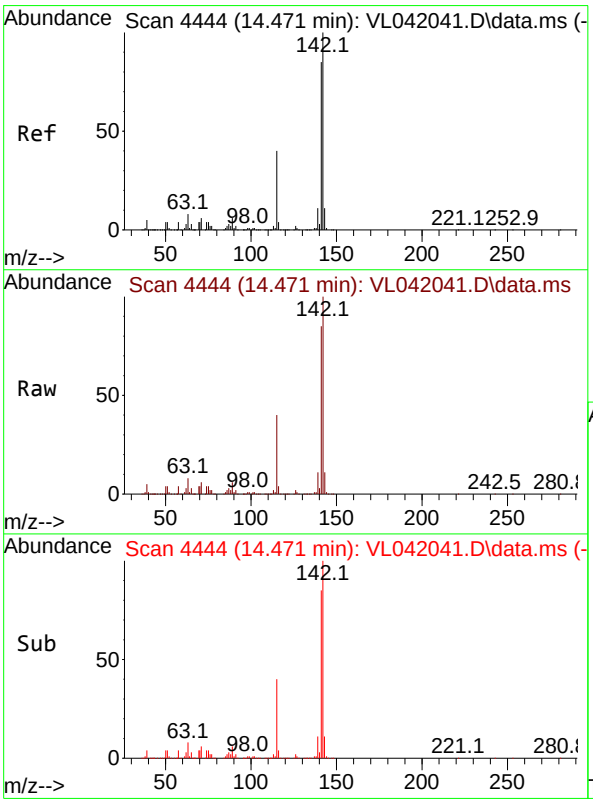
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.2	15.2
129	10.7	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

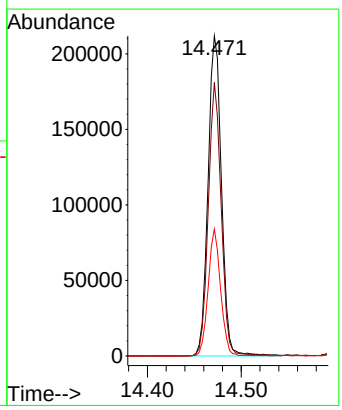
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

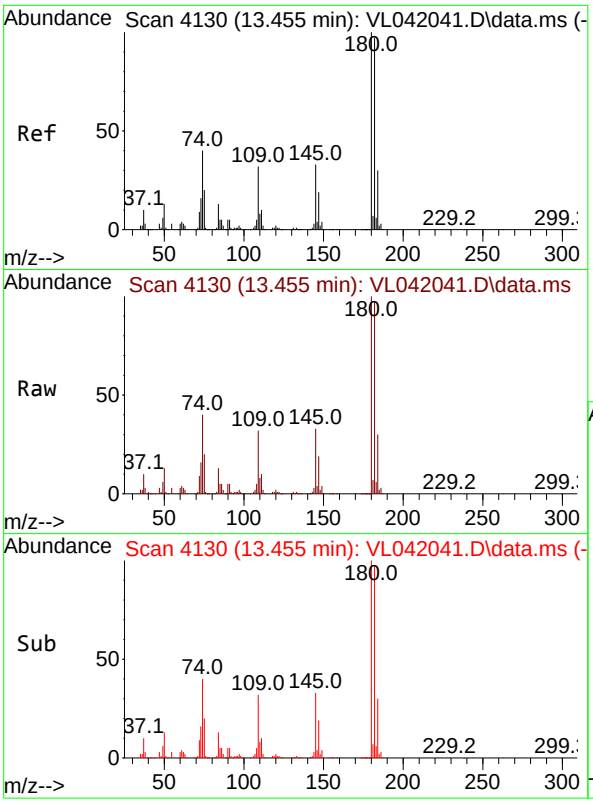


#80
Naphthalene,2-methyl-
Concen: 6.676 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:142 Resp: 210405

Ion	Ratio	Lower	Upper
142	100		
141	82.2	68.2	102.2
115	36.9	33.6	50.4

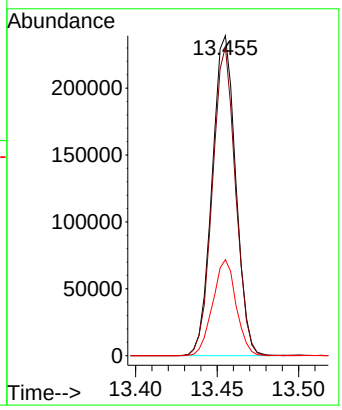




#81
1,2,4-Trichlorobenzene
Concen: 8.517 ppbv
RT: 13.455 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:180 Resp: 24103

Ion	Ratio	Lower	Upper
180	100		
182	93.9	75.8	113.6
184	29.7	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	160999	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	289049	9.273	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 92.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv		95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv		94
4) Chloromethane	1.538	50	12833	1.192	ppbv	#	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv		97
6) Bromomethane	1.674	94	5996	1.201	ppbv		97
7) Chloroethane	1.712	64	5014	1.195	ppbv		90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv		99
9) Propene	1.489	41	20484	1.551	ppbv		95
10) Heptane	5.004	43	63098	1.720	ppbv		94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv		90
13) Ethanol	1.729	45	1291	0.866	ppbv		91
14) Bromoethene	1.790	108	9642	1.187	ppbv		93
15) Acetone	1.842	43	30058	1.131	ppbv		100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv		100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv		96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv		93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv		96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv	#	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv		96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv		81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv	#	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv		99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv		100
26) Hexane	2.839	57	48912	1.671	ppbv		98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv	#	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv		100
29) Chloroform	2.865	83	63463	1.497	ppbv		92
30) Cyclohexane	3.878	84	40420	1.702	ppbv		98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv		96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv		97
34) 2-Butanone	2.573	43	69370	1.888	ppbv		96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv		97
36) Benzene	3.677	78	94277	1.822	ppbv		98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv		99
38) Trichloroethene	4.574	130	38184	1.817	ppbv		99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv		95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv	#	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv		96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv		94
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv		94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv		97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv		93

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	46835	1.658	ppbv		93
47) 1,1,2-Trichloroethane	6.613	97	36368	1.822	ppbv		93
48) Dibromochloromethane	7.412	129	56931	1.703	ppbv		99
49) Bromoform	9.503	173	50259	1.833	ppbv		99
50) 4-Methyl-2-Pentanone	5.797	43	83246	1.474	ppbv		99
51) 2-Hexanone	7.470	43	51926	1.124	ppbv	#	94
52) Tetrachloroethene	8.244	164	32874	1.822	ppbv		95
53) Toluene	6.962	91	109646	1.779	ppbv		98
54) 1,2-Dibromoethane	7.678	107	50010	1.820	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.946	131	44947	1.662	ppbv		98
57) Chlorobenzene	8.943	112	84749	1.906	ppbv		95
58) Ethyl Benzene	9.374	91	149185	1.804	ppbv		99
59) m/p-Xylene	9.568	91	238800m	3.666	ppbv		
60) o-Xylene	9.982	91	119170	1.809	ppbv		97
61) Styrene	9.888	104	55798	1.776	ppbv		96
62) Isopropylbenzene	10.555	105	181311	1.833	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.982	83	77911	1.833	ppbv		96
64) n-propylbenzene	11.005	120	47764	1.965	ppbv		92
65) tert-Butylbenzene	11.545	119	167973	1.948	ppbv		96
66) Benzyl Chloride	11.630	91	12304	1.423	ppbv	#	98
67) sec-Butylbenzene	11.782	105	240504	1.986	ppbv		99
69) p-Isopropyltoluene	11.940	119	194660	1.963	ppbv		99
70) n-Butylbenzene	12.296	91	194416	1.991	ppbv		99
71) 2-Chlorotoluene	10.917	91	140068	1.880	ppbv		98
72) 4-Ethyltoluene	11.141	105	150038	1.944	ppbv		98
73) 1,3,5-Trimethylbenzene	11.218	105	128202	1.925	ppbv		99
74) 1,2,4-Trimethylbenzene	11.549	105	150380	2.104	ppbv	#	88
75) 1,3-Dichlorobenzene	11.623	146	81884	2.129	ppbv		98
76) 1,4-Dichlorobenzene	11.688	146	82560	2.201	ppbv		97
77) 1,2-Dichlorobenzene	11.963	146	80367	2.186	ppbv		96
78) Hexachloro-1,3-Butadiene	13.895	225	63815	2.098	ppbv		99
79) Naphthalene	13.526	128	102197	1.454	ppbv		98
80) Naphthalene,2-methyl-	14.475	142	18104	0.569	ppbv		94
81) 1,2,4-Trichlorobenzene	13.455	180	57798	2.023	ppbv		98

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

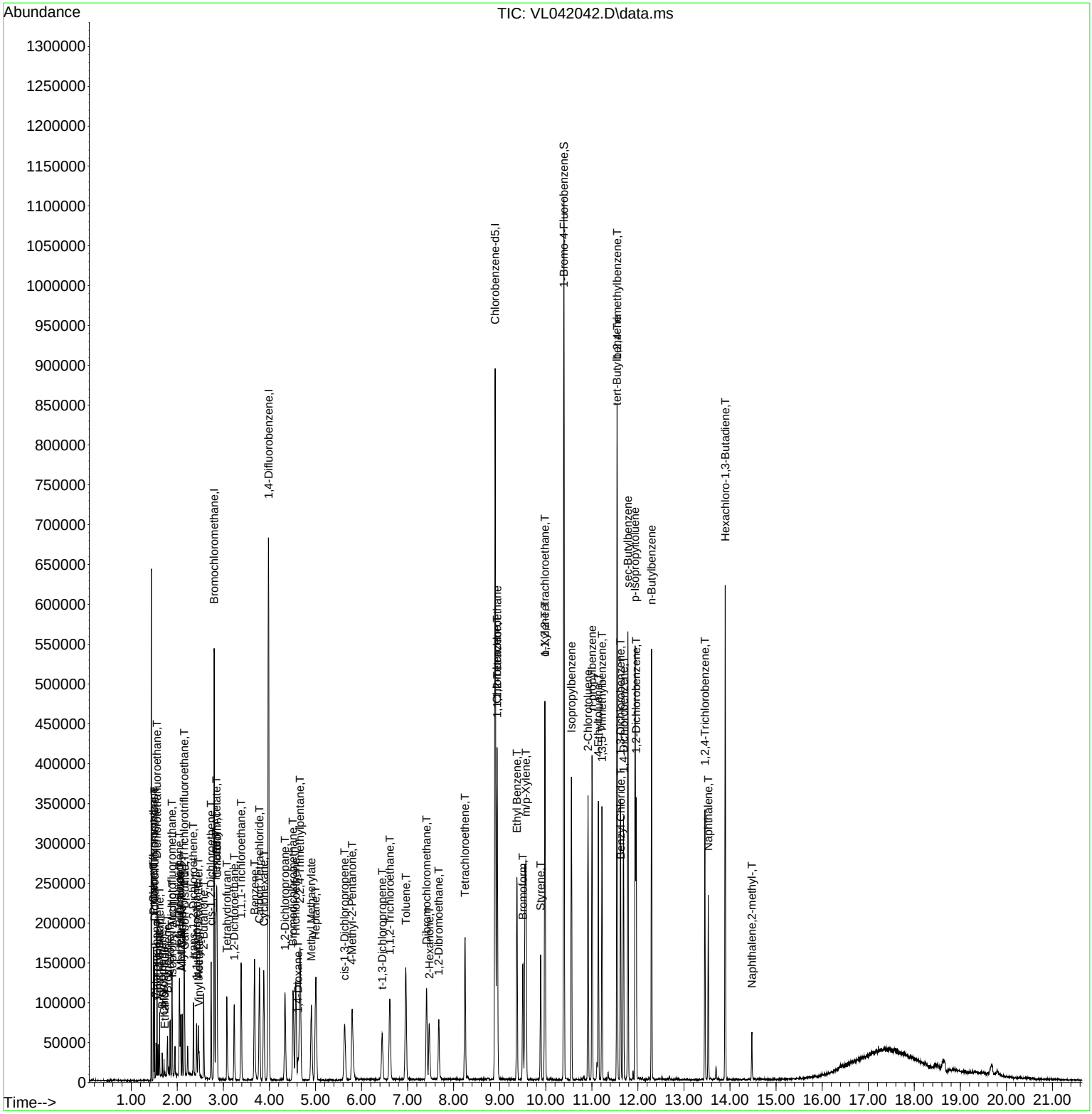
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

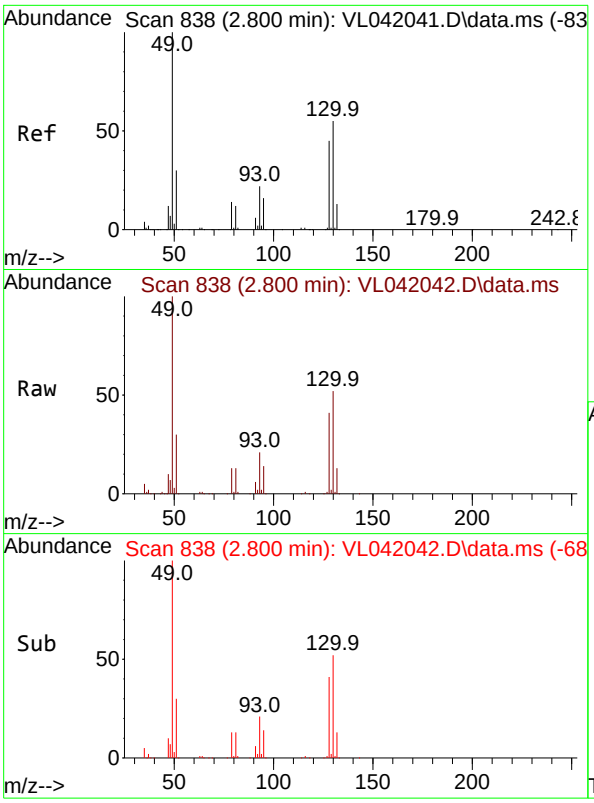
Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

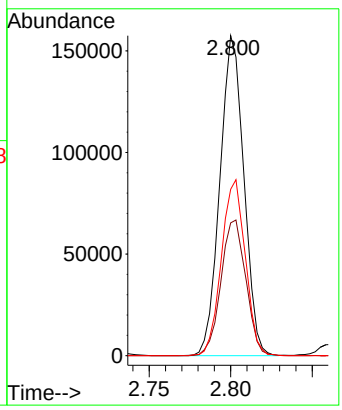




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 49 Resp: 16099

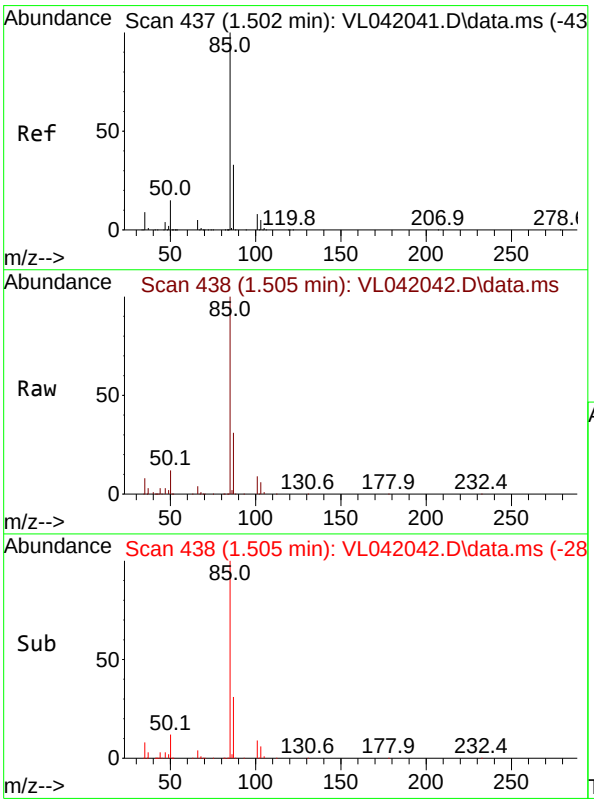
Ion	Ratio	Lower	Upper
49	100		
128	44.0	22.7	68.0
130	54.7	29.9	89.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

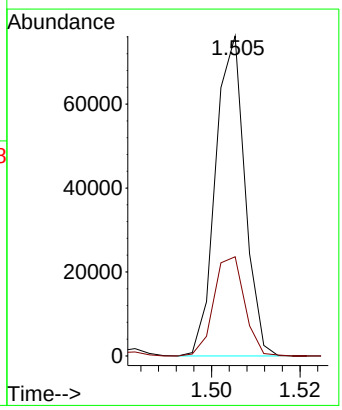
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

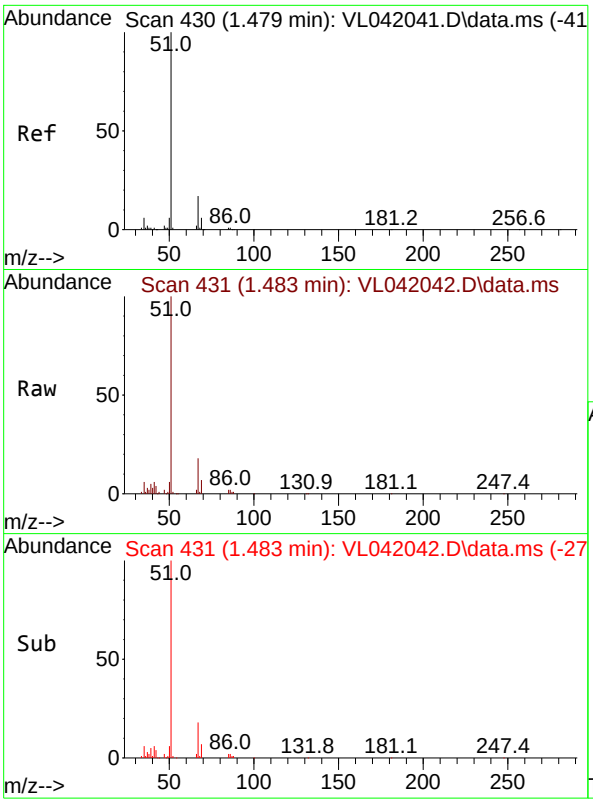


#2
Dichlorodifluoromethane
Concen: 1.267 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 85 Resp: 35122

Ion	Ratio	Lower	Upper
85	100		
87	31.0	26.9	40.3

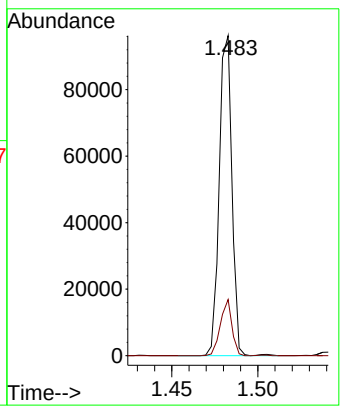




#3
Chlorodifluoromethane
Concen: 1.613 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 51 Resp: 4942

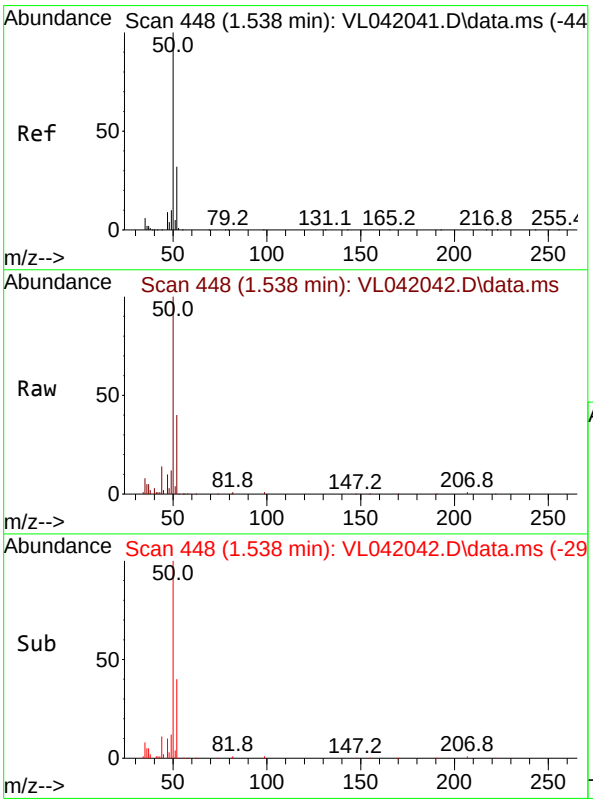
Ion	Ratio	Lower	Upper
51	100		
67	16.1	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

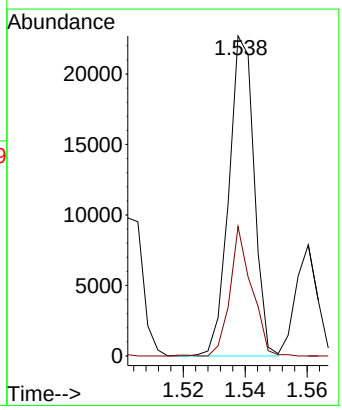
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

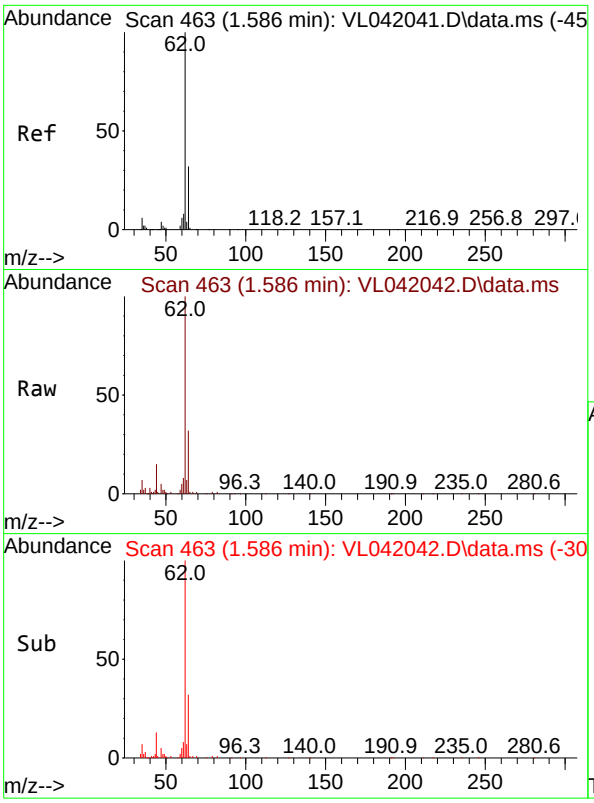


#4
Chloromethane
Concen: 1.192 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 50 Resp: 12833

Ion	Ratio	Lower	Upper
50	100		
52	40.2	26.2	39.2#

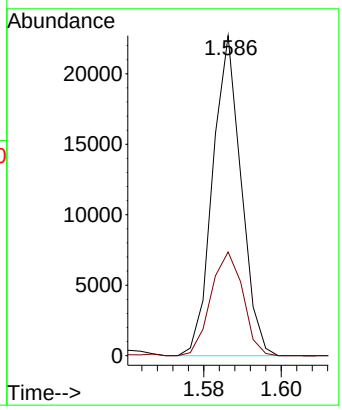




#5
Vinyl Chloride
Concen: 0.902 ppbv
RT: 1.586 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 62 Resp: 1161

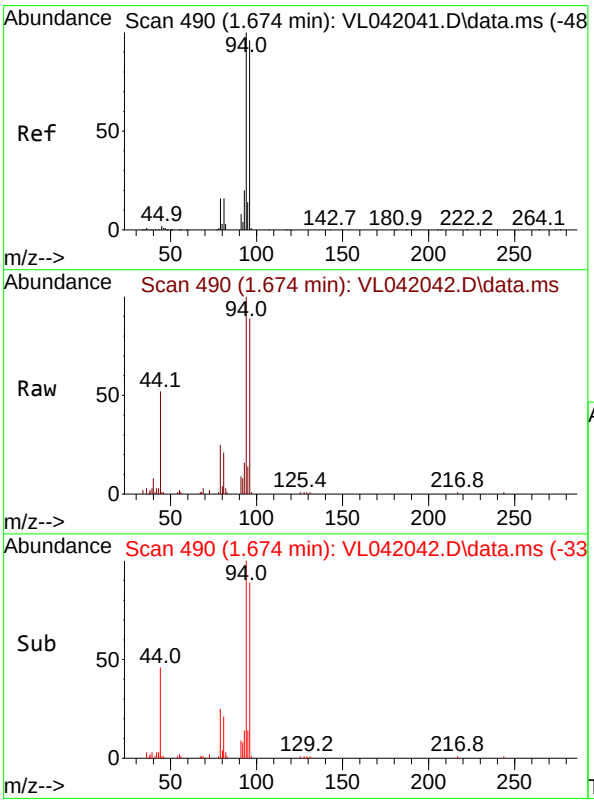
Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

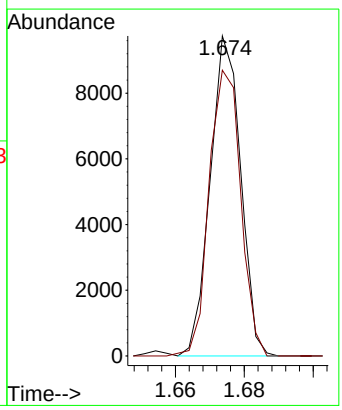
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

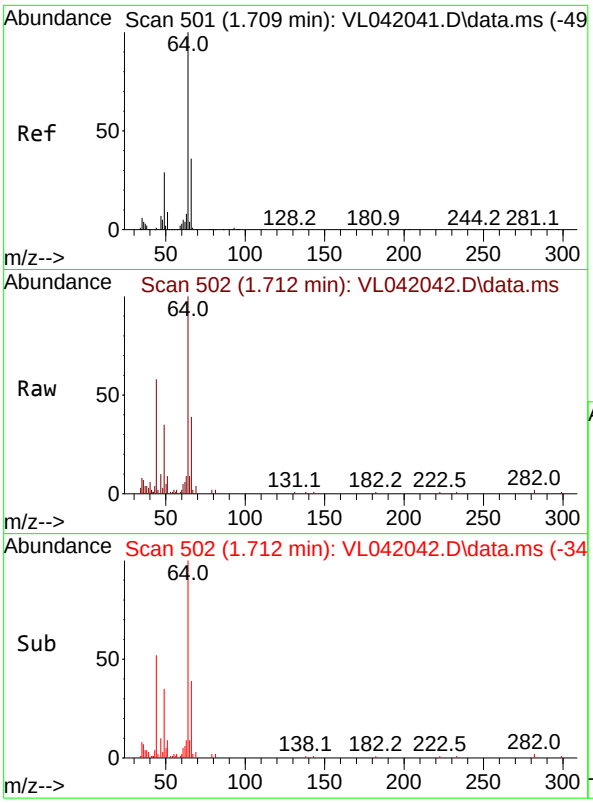


#6
Bromomethane
Concen: 1.201 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 94 Resp: 5996

Ion	Ratio	Lower	Upper
94	100		
96	89.3	69.0	103.6

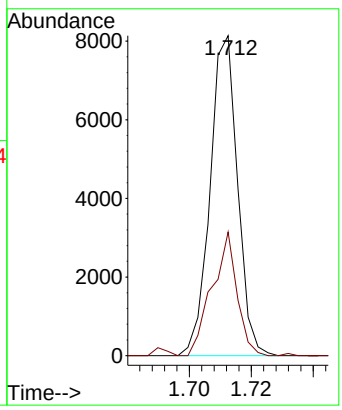




#7
Chloroethane
Concen: 1.195 ppbv
RT: 1.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 64 Resp: 501

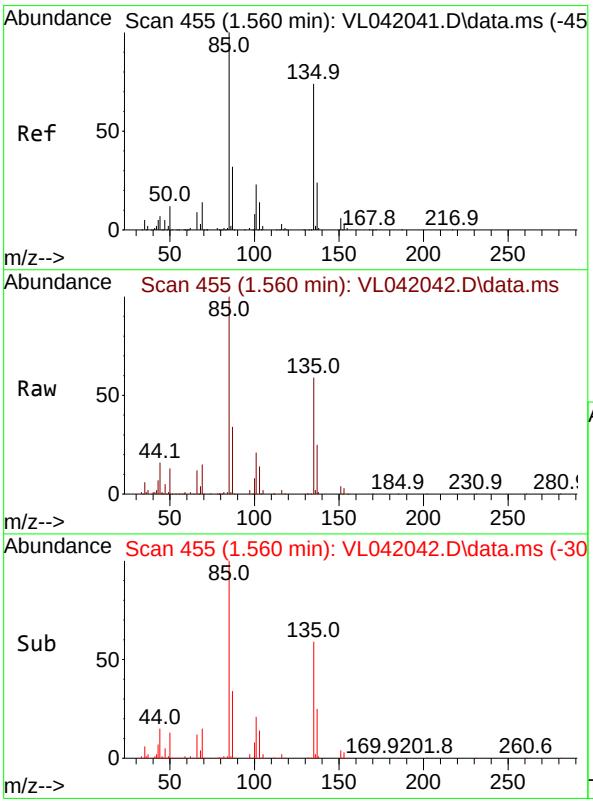
Ion	Ratio	Lower	Upper
64	100		
66	38.7	26.5	39.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

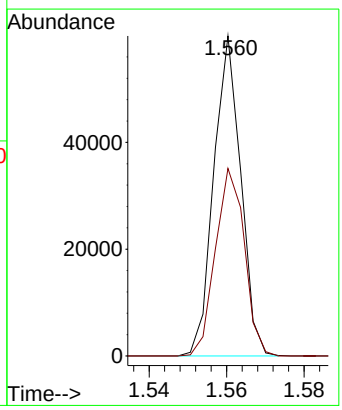
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

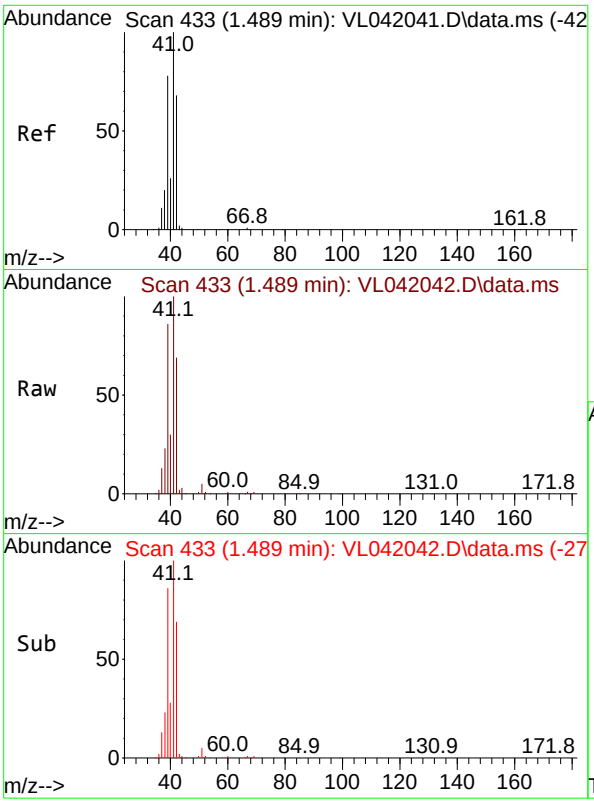


#8
Dichlorotetrafluoroethane
Concen: 1.191 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 85 Resp: 29028

Ion	Ratio	Lower	Upper
85	100		
135	63.1	50.9	76.3

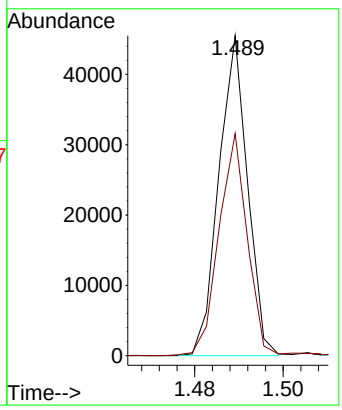




#9
Propene
Concen: 1.551 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 41 Resp: 2048

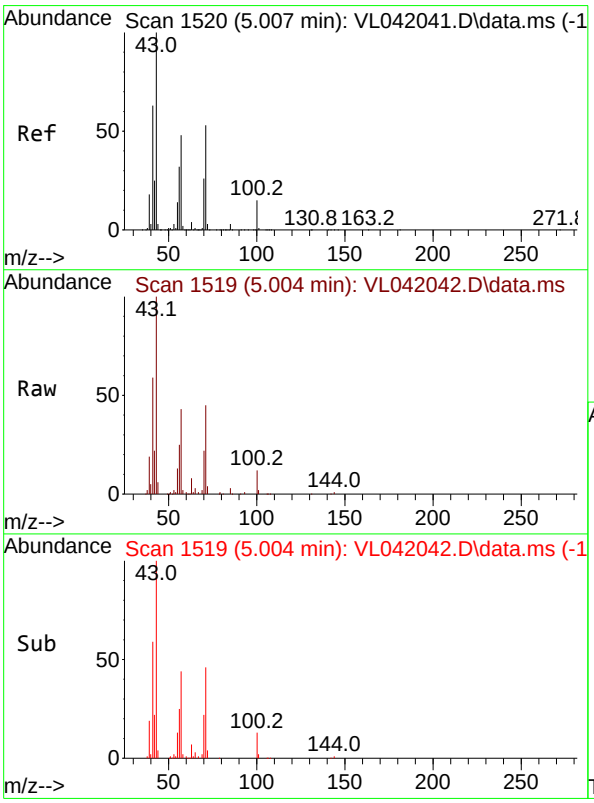
Ion	Ratio	Lower	Upper
41	100		
42	70.7	53.5	80.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

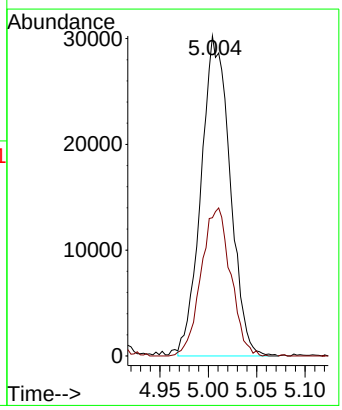
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

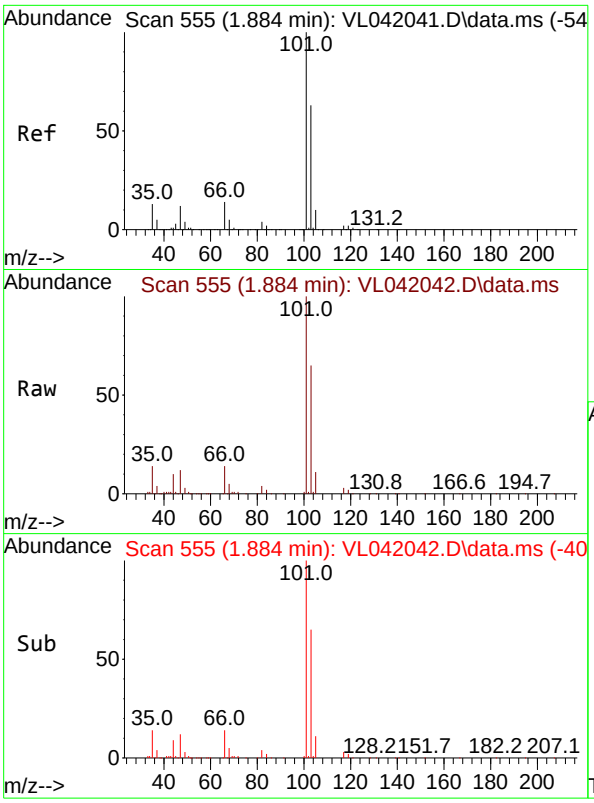


#10
Heptane
Concen: 1.720 ppbv
RT: 5.004 min Scan# 1519
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 63098

Ion	Ratio	Lower	Upper
43	100		
57	47.0	41.0	61.6

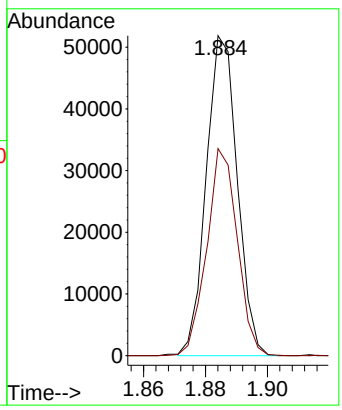




#11
Trichlorofluoromethane
Concen: 1.292 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:101 Resp: 3604

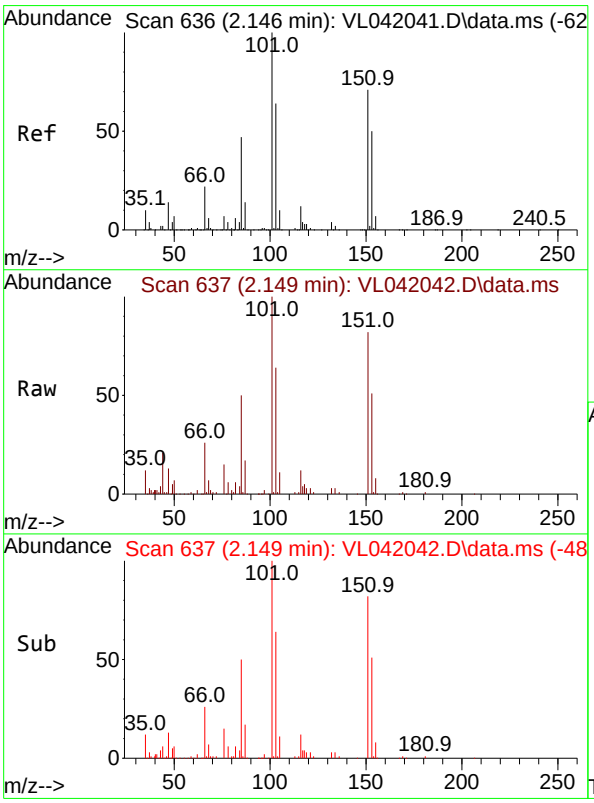
Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.9	79.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

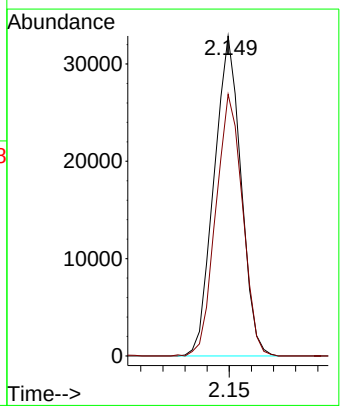
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

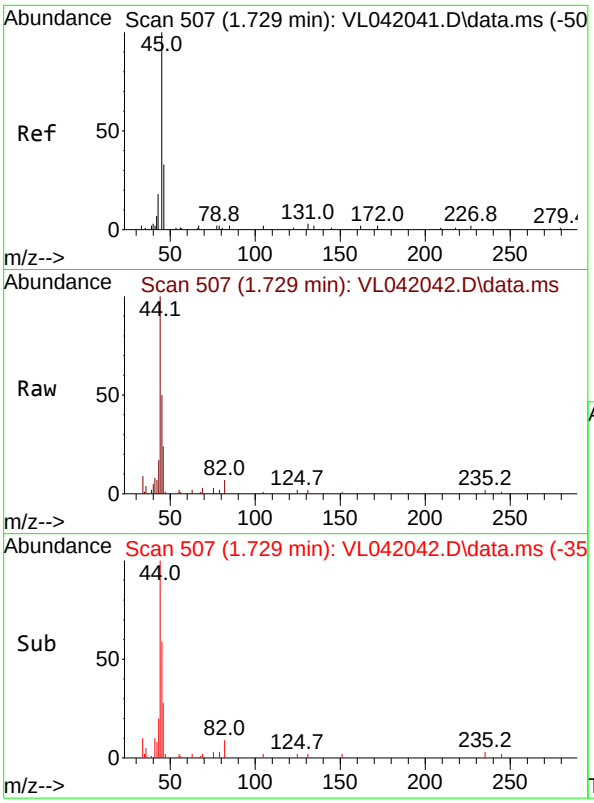


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.280 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:101 Resp: 27846

Ion	Ratio	Lower	Upper
101	100		
151	81.3	58.2	87.2

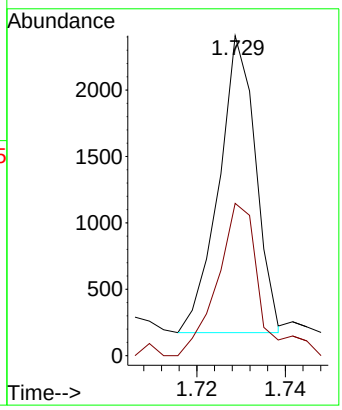




#13
Ethanol
Concen: 0.866 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 45 Resp: 129

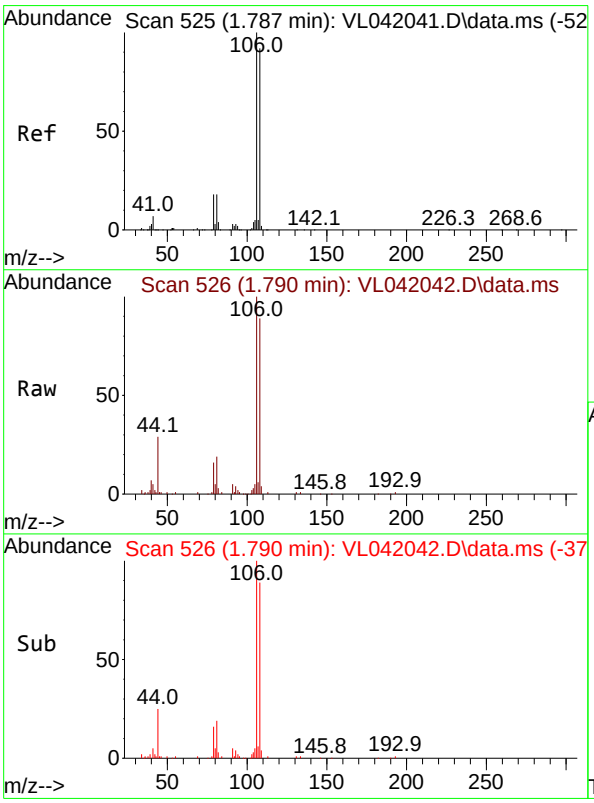
Ion	Ratio	Lower	Upper
45	100		
46	59.8	21.3	85.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

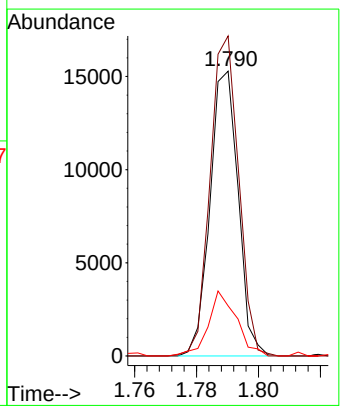
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

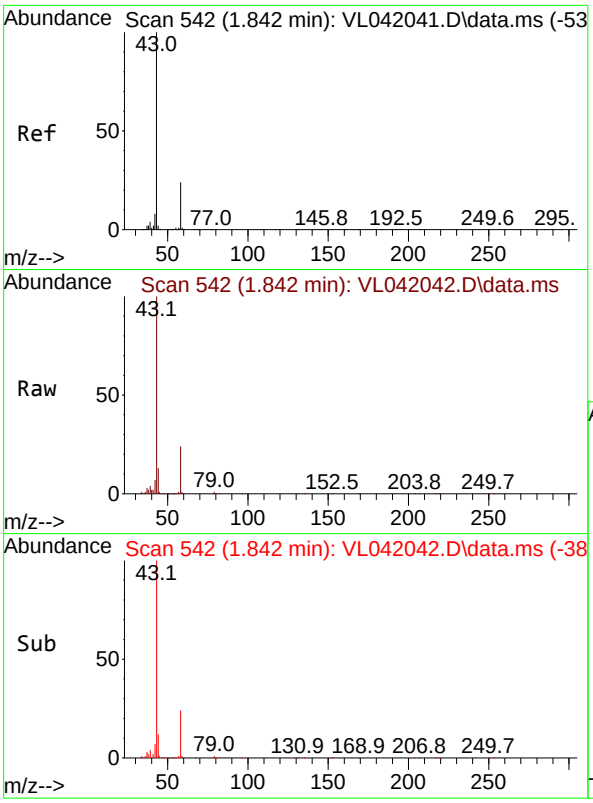


#14
Bromoethene
Concen: 1.187 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:108 Resp: 9642

Ion	Ratio	Lower	Upper
108	100		
106	114.2	85.0	127.6
79	23.8	17.3	25.9

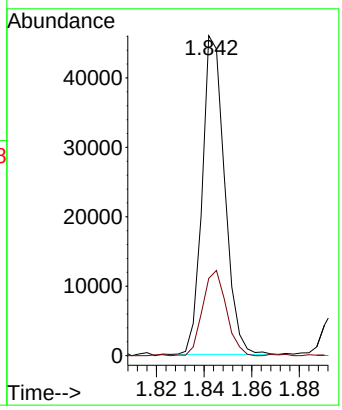




#15
Acetone
Concen: 1.131 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 3005

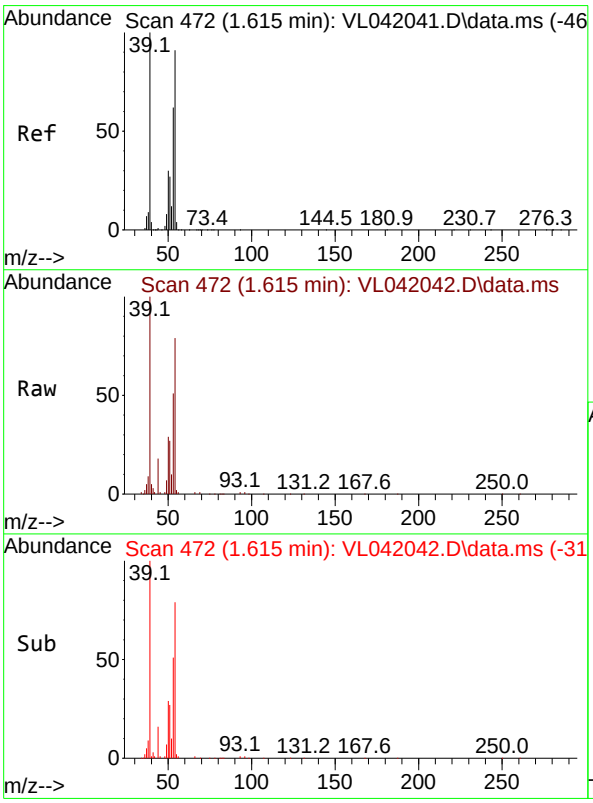
Ion	Ratio	Lower	Upper
43	100		
58	28.8	22.9	34.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

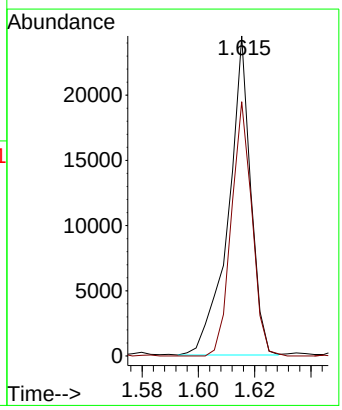
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

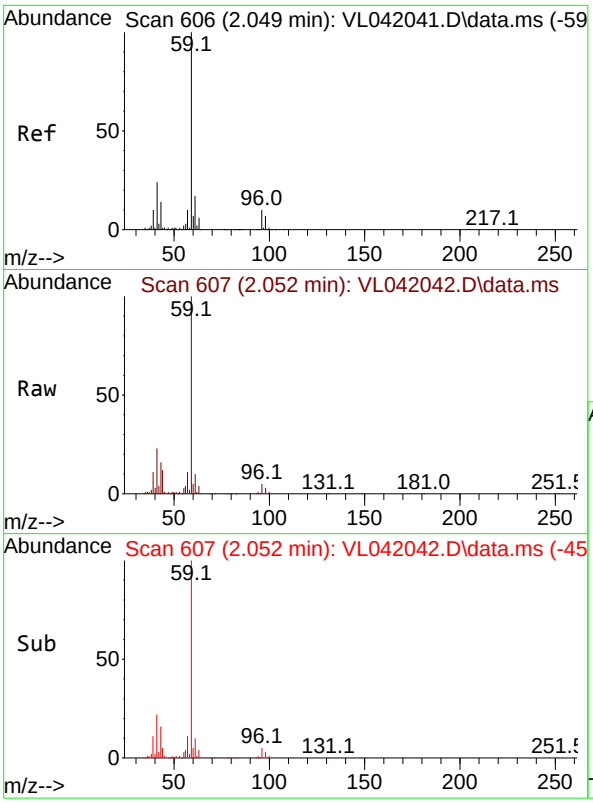


#16
1,3-Butadiene
Concen: 1.069 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 39 Resp: 13471

Ion	Ratio	Lower	Upper
39	100		
54	74.0	59.4	89.2

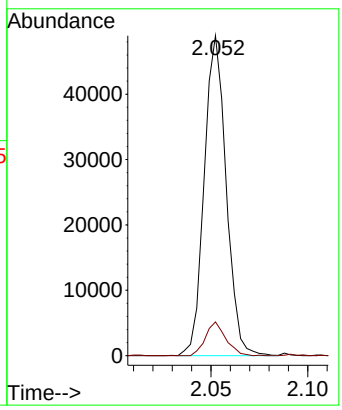




#17
tert-Butyl alcohol
Concen: 1.176 ppbv
RT: 2.052 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 59 Resp: 3868

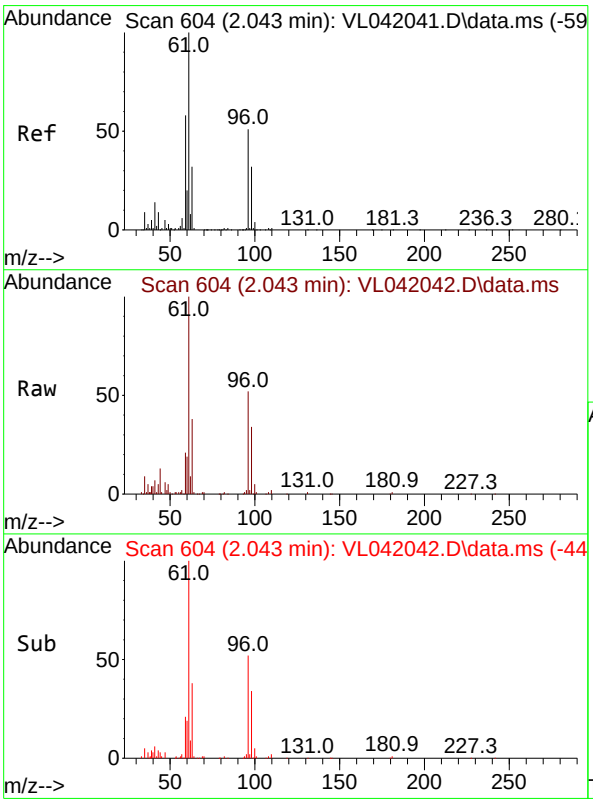
Ion	Ratio	Lower	Upper
59	100		
57	9.9	9.2	13.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

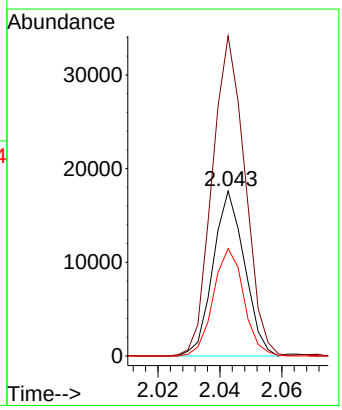
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

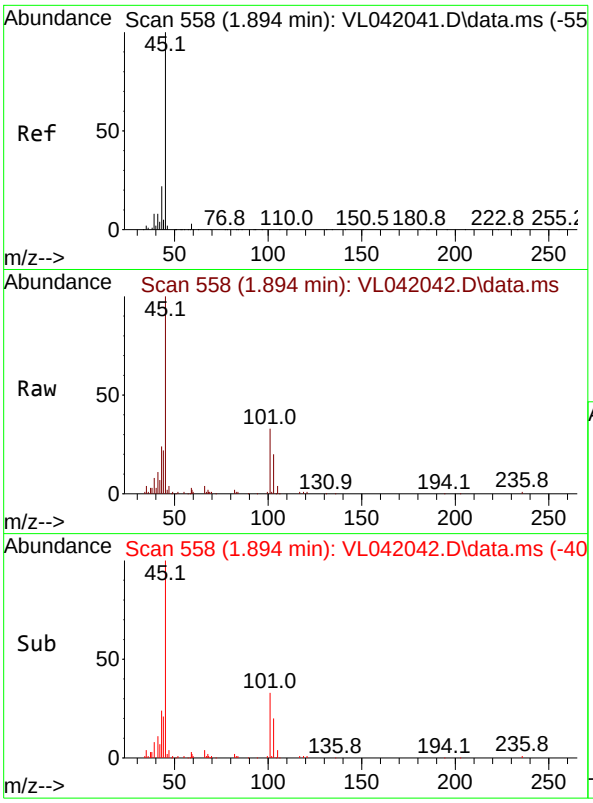


#18
1,1-Dichloroethene
Concen: 1.195 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 96 Resp: 12417

Ion	Ratio	Lower	Upper
96	100		
61	193.2	163.5	245.3
98	65.1	49.4	74.0

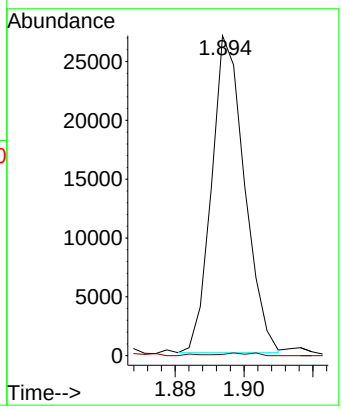




#19
Isopropyl Alcohol
Concen: 1.203 ppbv
RT: 1.894 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 45 Resp: 1792

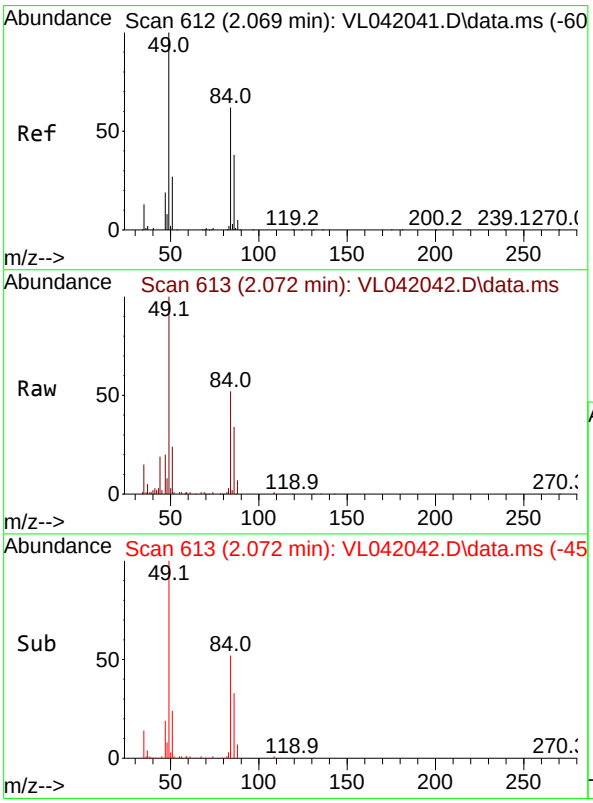
Ion	Ratio	Lower	Upper
45	100		
58	48.2	36.2	54.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

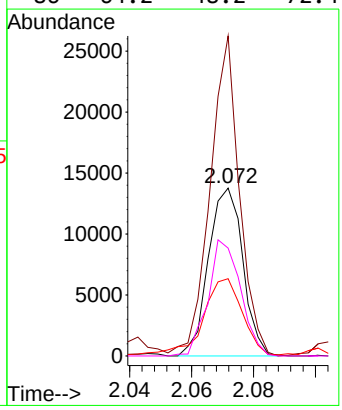
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

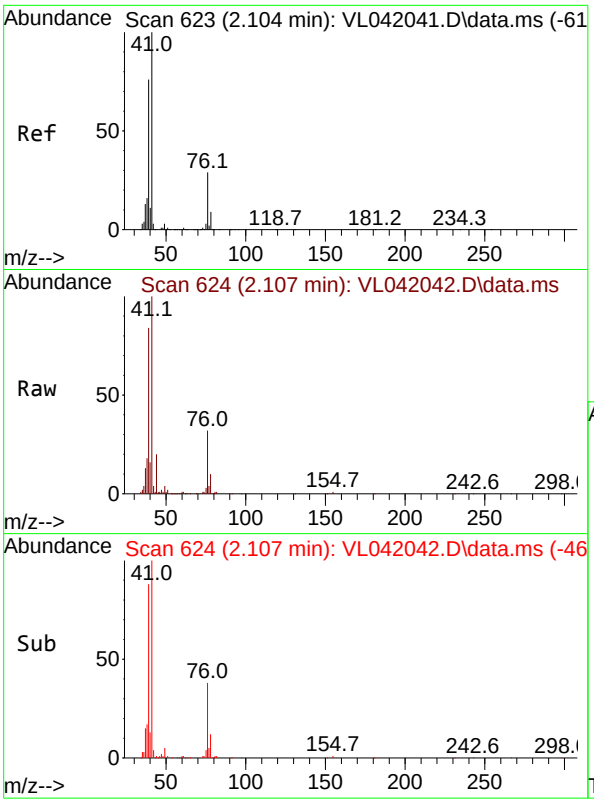


#20
Methylene Chloride
Concen: 1.058 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 84 Resp: 10587

Ion	Ratio	Lower	Upper
84	100		
49	190.7	121.0	181.4#
51	45.4	35.1	52.7
86	64.2	48.2	72.4

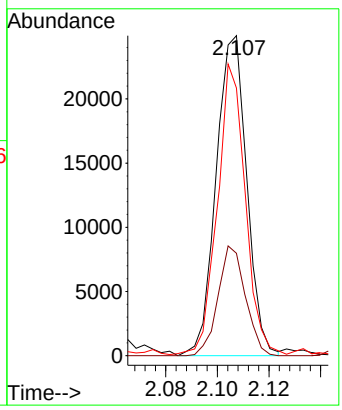




#21
Allyl Chloride
Concen: 1.069 ppbv
RT: 2.107 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 41 Resp: 2056

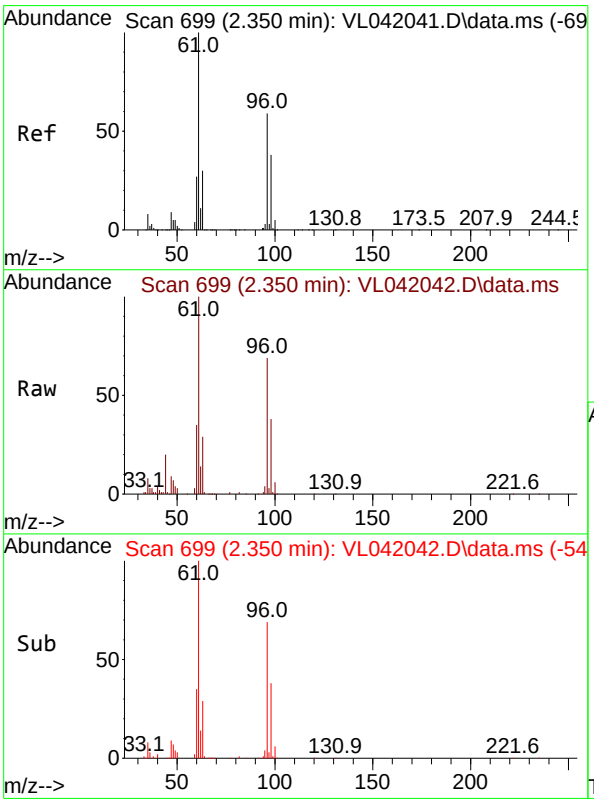
Ion	Ratio	Lower	Upper
41	100		
76	30.7	23.7	35.5
39	82.6	63.0	94.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

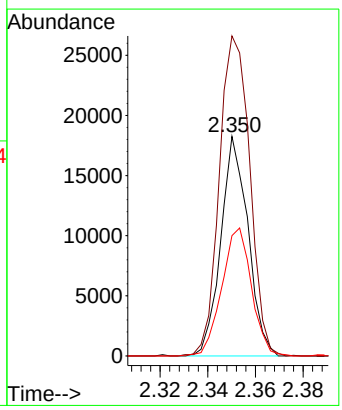
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

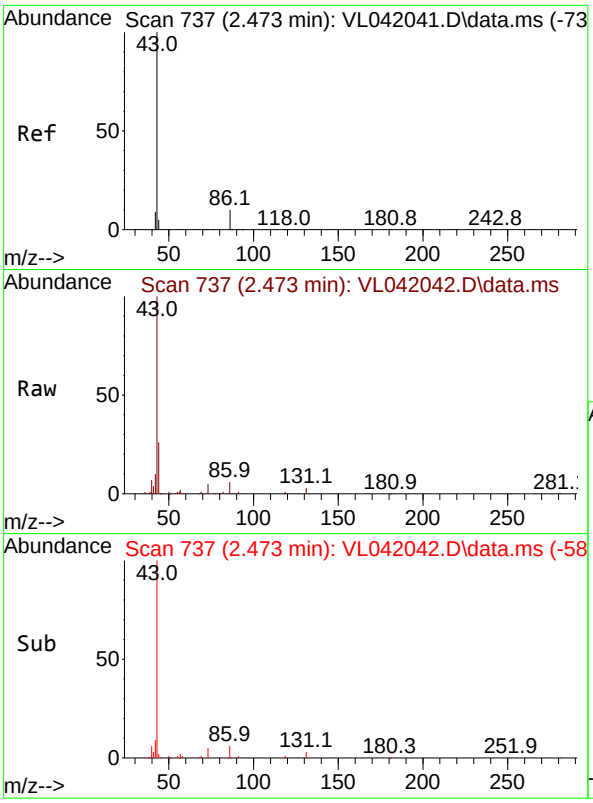


#22
trans-1,2-Dichloroethene
Concen: 1.283 ppbv
RT: 2.350 min Scan# 699
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 96 Resp: 14475

Ion	Ratio	Lower	Upper
96	100		
61	145.8	142.3	213.5
98	54.9	50.2	75.2

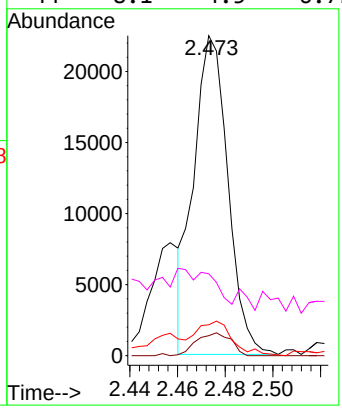




#23
Vinyl Acetate
Concen: 1.556 ppbv
RT: 2.473 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 2239

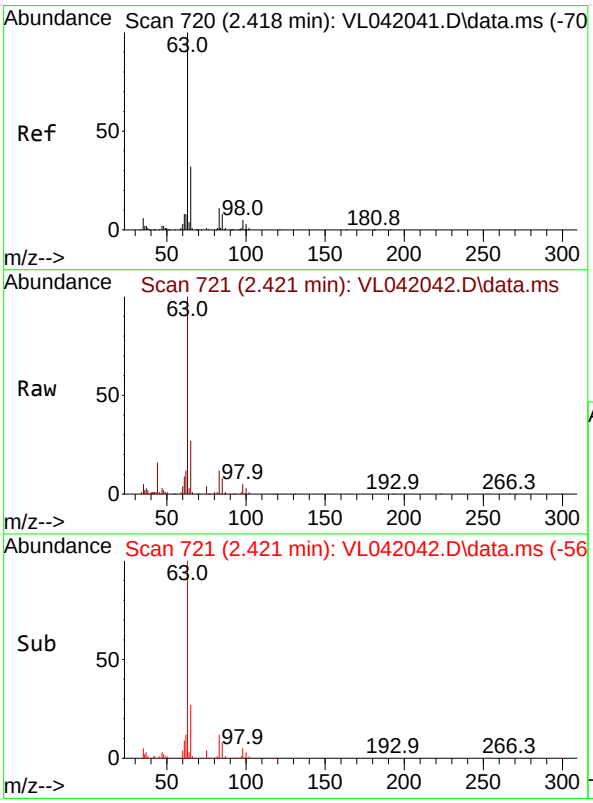
Ion	Ratio	Lower	Upper
43	100		
86	6.3	8.1	12.1#
42	9.4	7.5	11.3
44	8.1	4.5	6.7#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

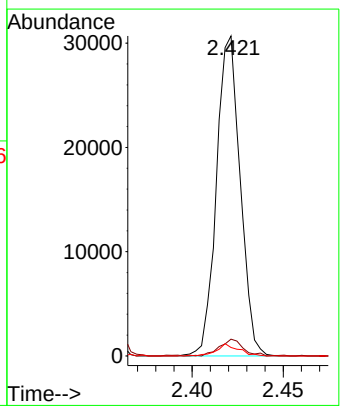
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

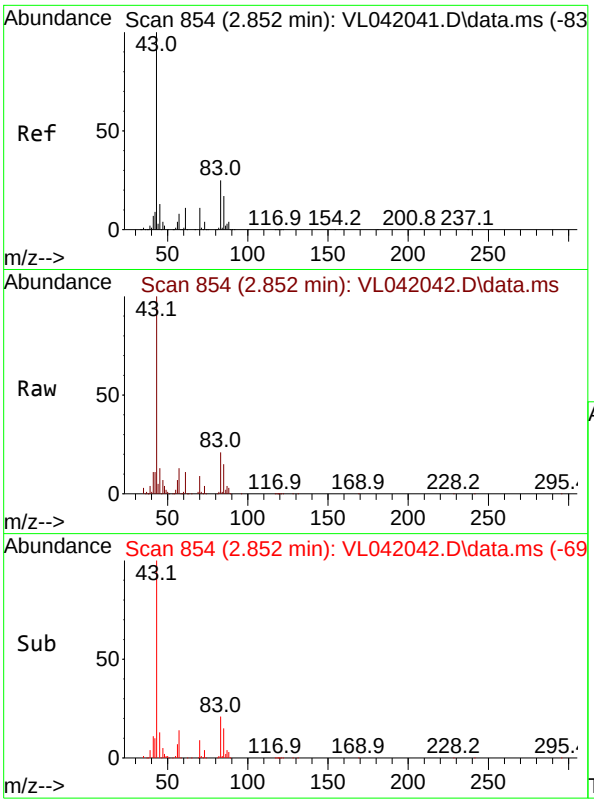


#24
1,1-Dichloroethane
Concen: 1.214 ppbv
RT: 2.421 min Scan# 721
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 63 Resp: 27804

Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.4	7.2
100	2.7	1.6	4.8

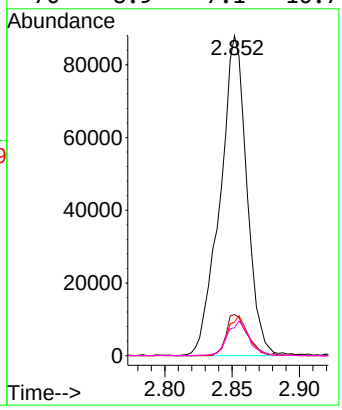




#25
Ethyl Acetate
Concen: 1.667 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 12159

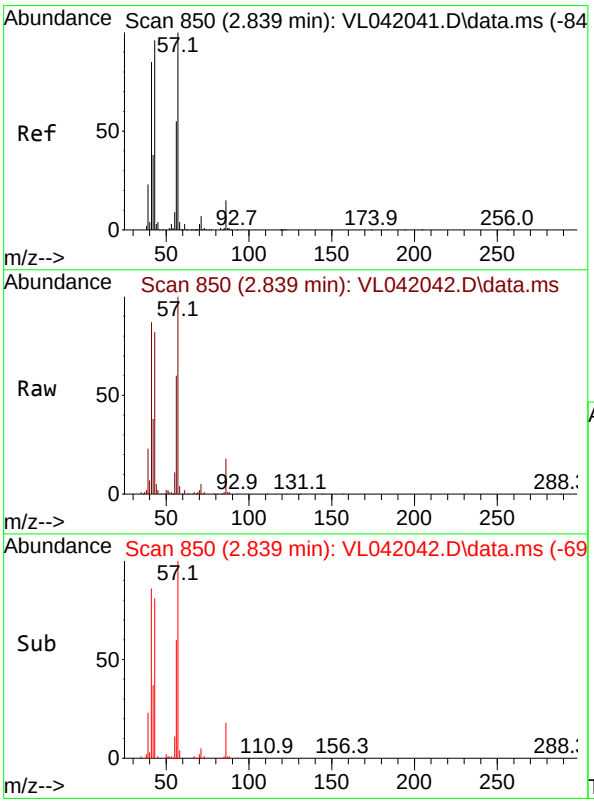
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.1	12.1
61	9.6	7.5	11.3
70	8.9	7.1	10.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

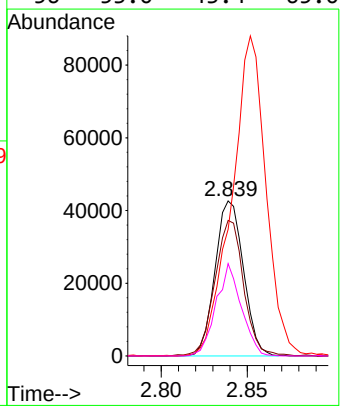
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

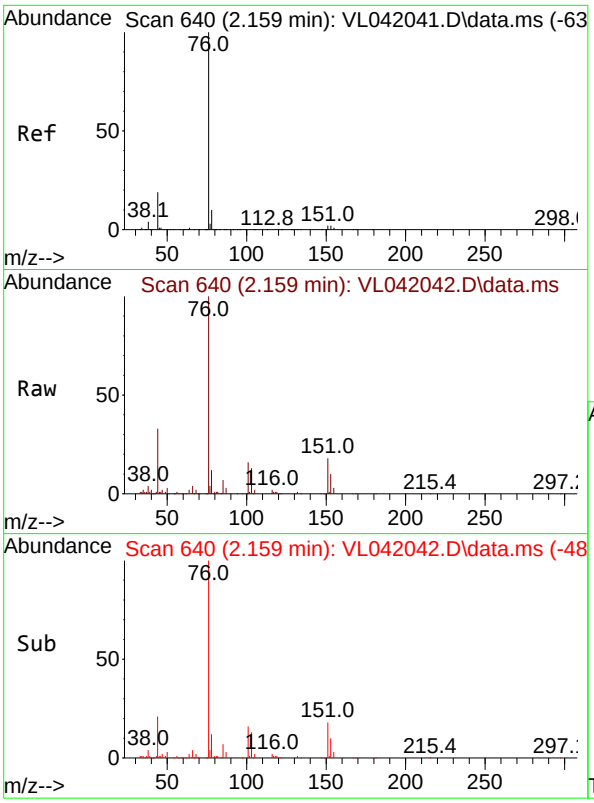


#26
Hexane
Concen: 1.671 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 57 Resp: 48912

Ion	Ratio	Lower	Upper
57	100		
41	89.0	73.2	109.8
43	249.1	200.8	301.2
56	53.0	43.4	65.0





#27
Carbon Disulfide
Concen: 1.207 ppbv
RT: 2.159 min Scan# 64
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

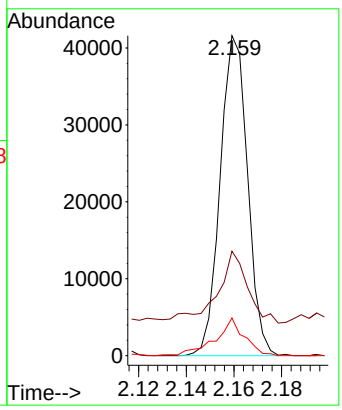
Tgt Ion: 76 Resp: 3322

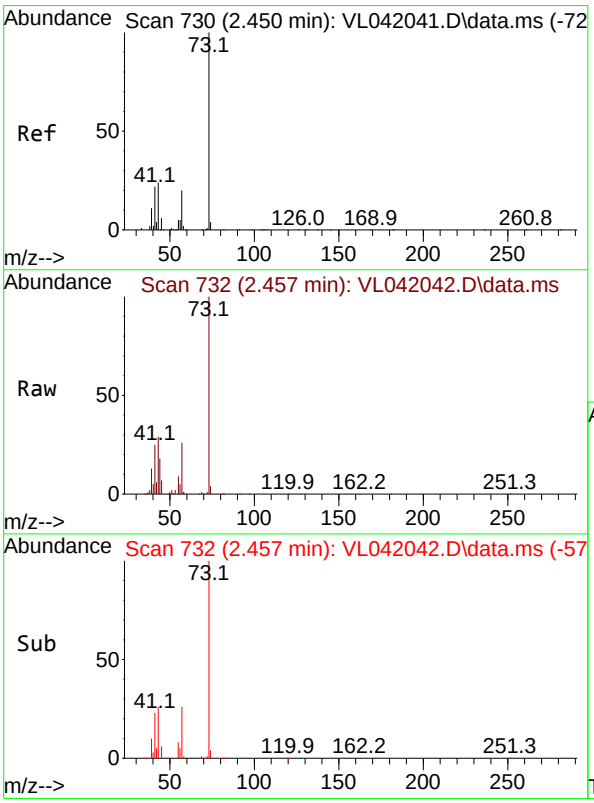
Ion	Ratio	Lower	Upper
76	100		
44	53.5	18.1	27.1
78	12.5	9.5	14.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

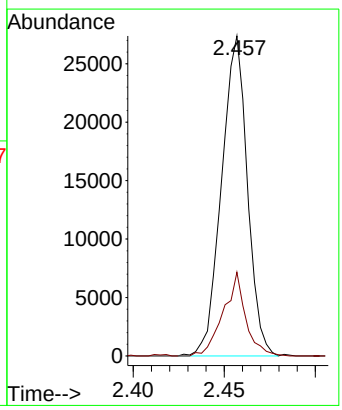


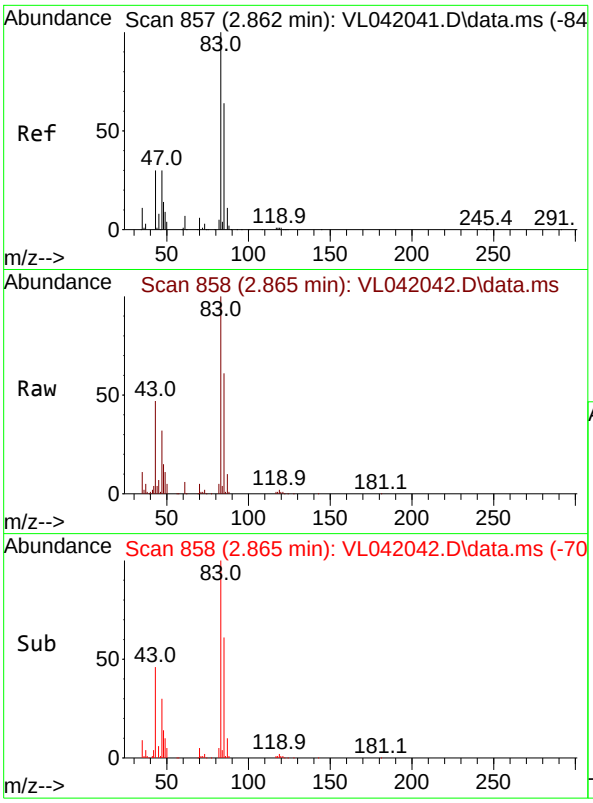


#28
Methyl tert-Butyl Ether
Concen: 1.507 ppbv
RT: 2.457 min Scan# 732
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 73 Resp: 26968

Ion	Ratio	Lower	Upper
73	100		
57	22.9	18.3	27.5

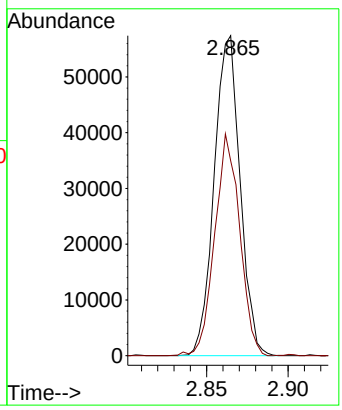




#29
Chloroform
Concen: 1.497 ppbv
RT: 2.865 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 83 Resp: 6346

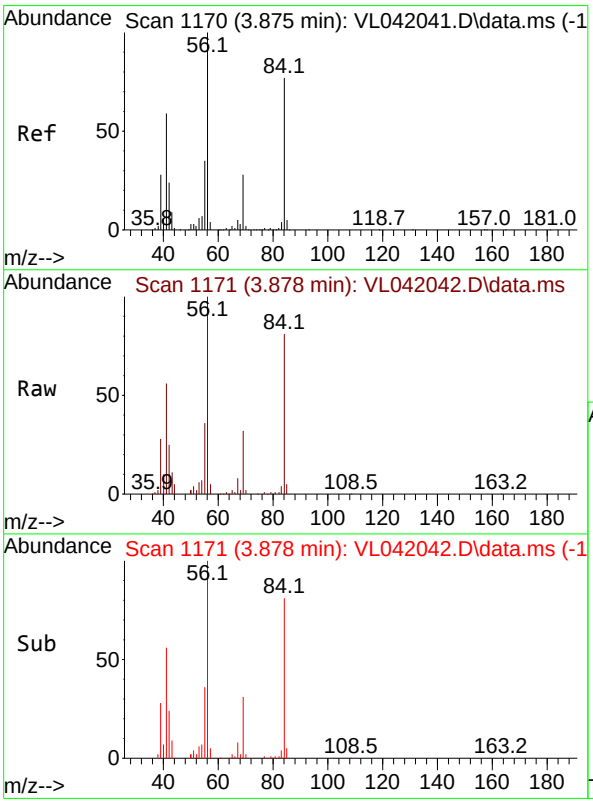
Ion	Ratio	Lower	Upper
83	100		
85	60.8	53.8	80.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

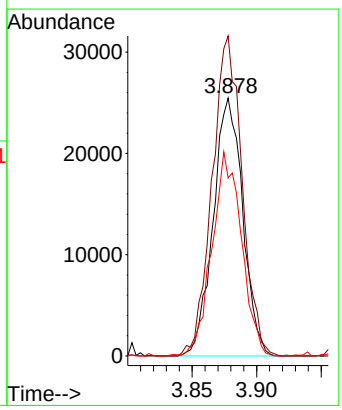
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

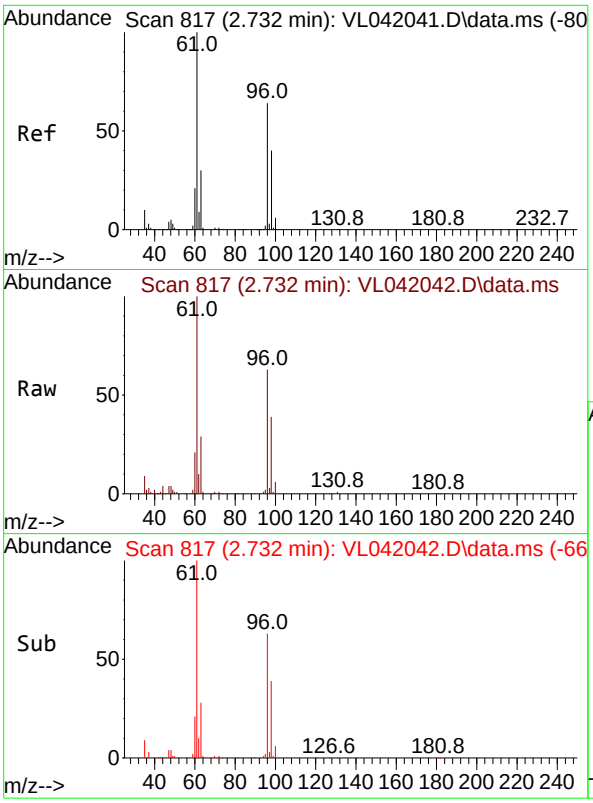


#30
Cyclohexane
Concen: 1.702 ppbv
RT: 3.878 min Scan# 1171
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 84 Resp: 40420

Ion	Ratio	Lower	Upper
84	100		
56	125.8	99.5	149.3
41	79.4	62.2	93.2

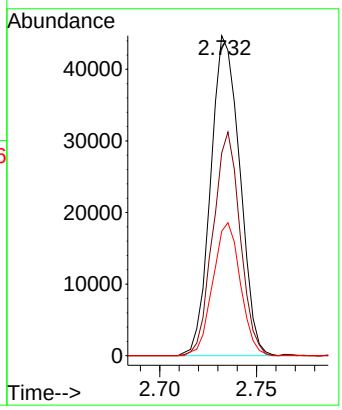




#31
cis-1,2-Dichloroethene
Concen: 1.614 ppbv
RT: 2.732 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 61 Resp: 4669

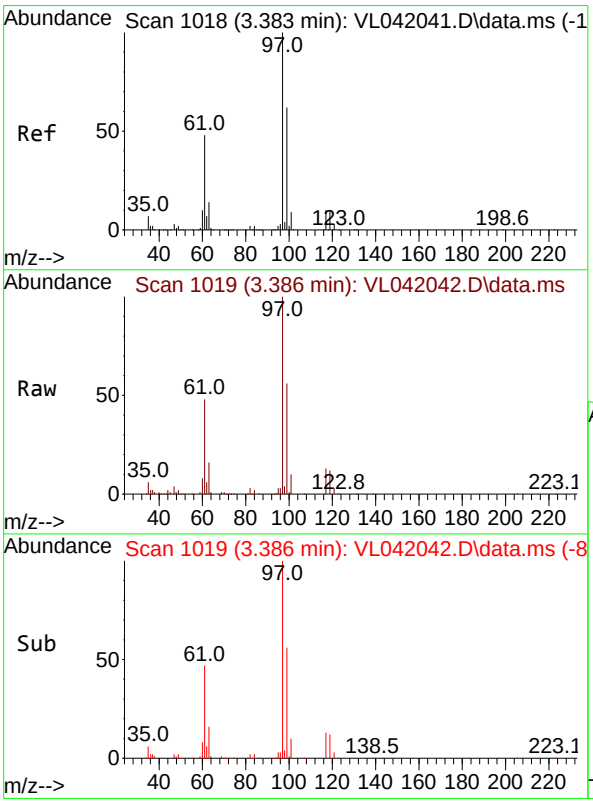
Ion	Ratio	Lower	Upper
61	100		
96	63.4	51.6	77.4
98	38.9	34.8	52.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

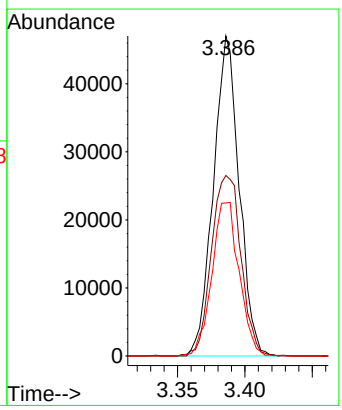
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

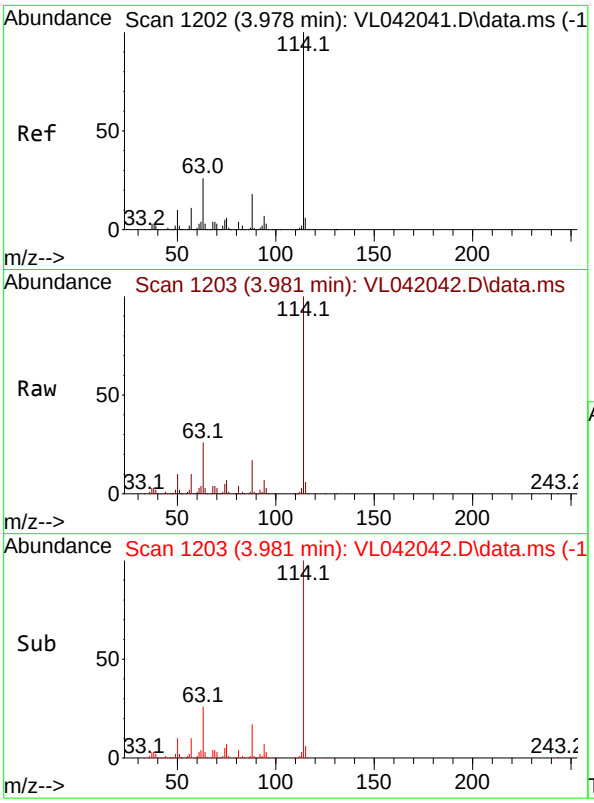


#32
1,1,1-Trichloroethane
Concen: 1.331 ppbv
RT: 3.386 min Scan# 1019
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 97 Resp: 62586

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.4
61	50.9	37.9	56.9

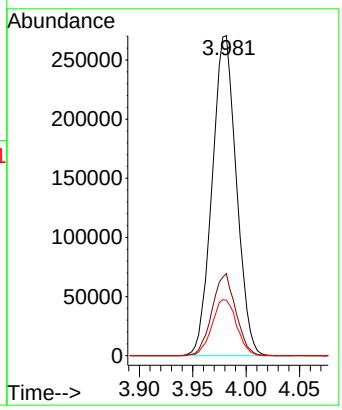




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:114 Resp: 42705

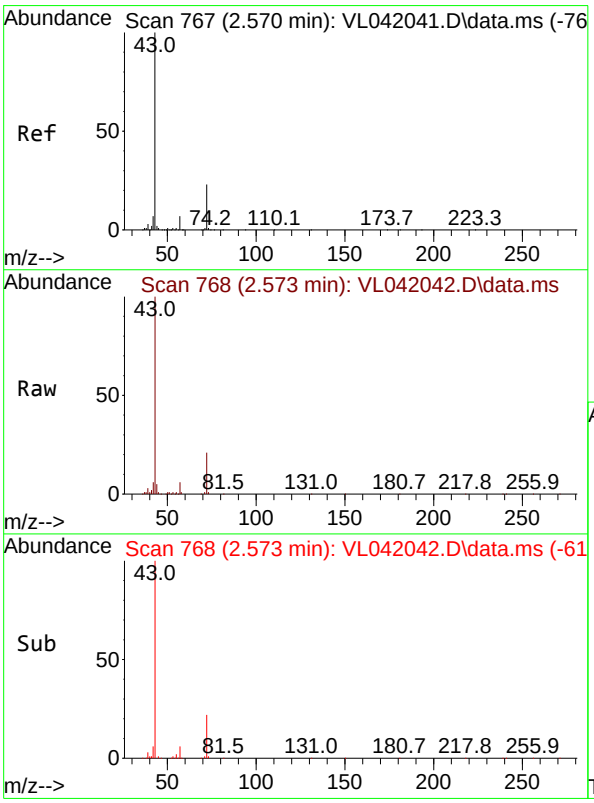
Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.2
88	17.8	14.4	21.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

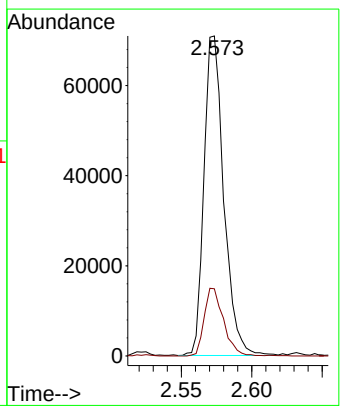
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

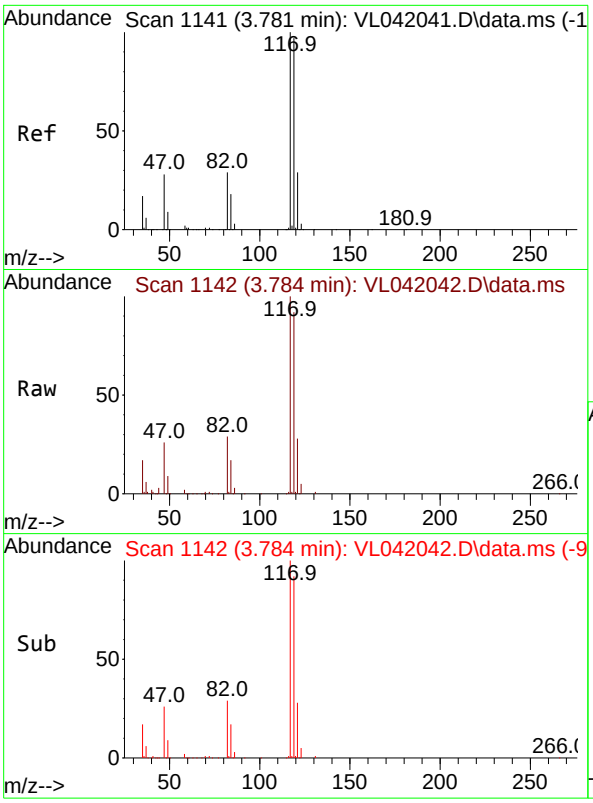


#34
2-Butanone
Concen: 1.888 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 69370

Ion	Ratio	Lower	Upper
43	100		
72	20.7	18.3	27.5

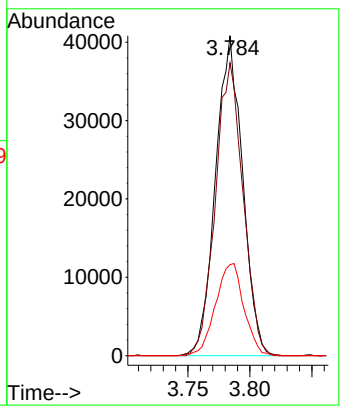




#35
Carbon Tetrachloride
Concen: 1.493 ppbv
RT: 3.784 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:117 Resp: 6189

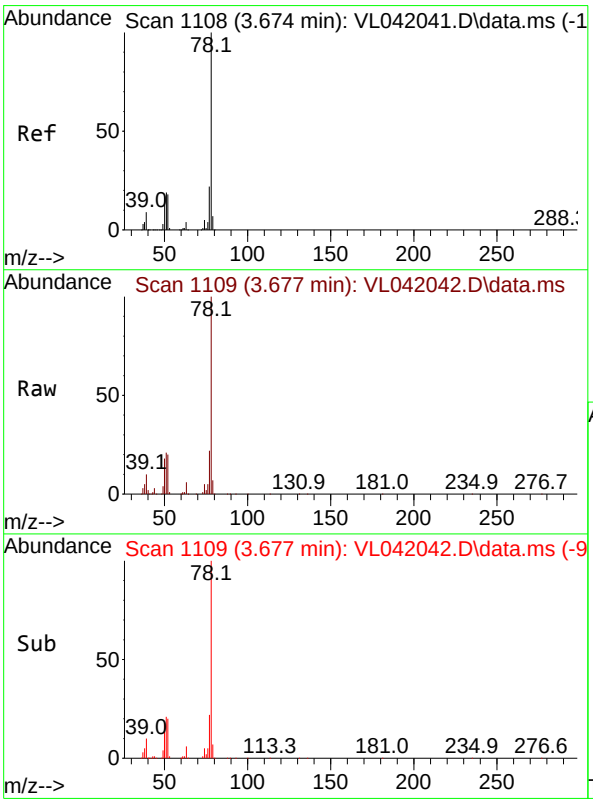
Ion	Ratio	Lower	Upper
117	100		
119	91.5	75.8	113.6
121	28.5	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

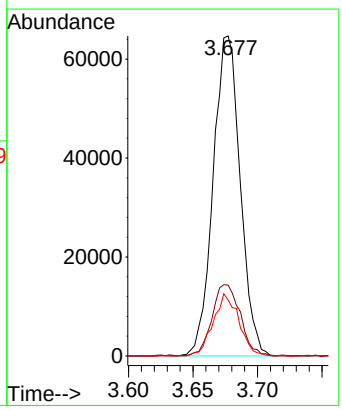
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

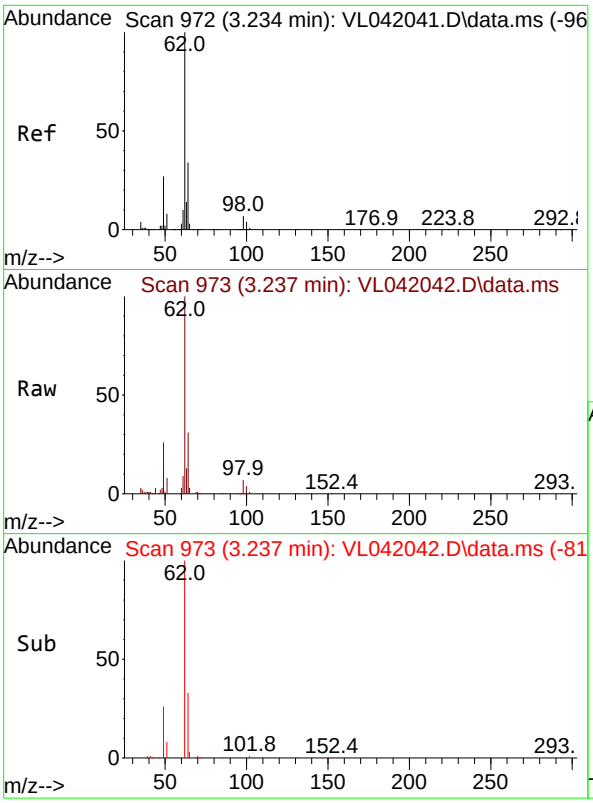


#36
Benzene
Concen: 1.822 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 78 Resp: 94277

Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.0	27.0
50	17.4	15.2	22.8

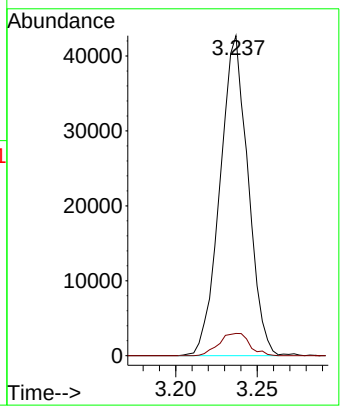




#37
1,2-Dichloroethane
Concen: 1.734 ppbv
RT: 3.237 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 62 Resp: 5105

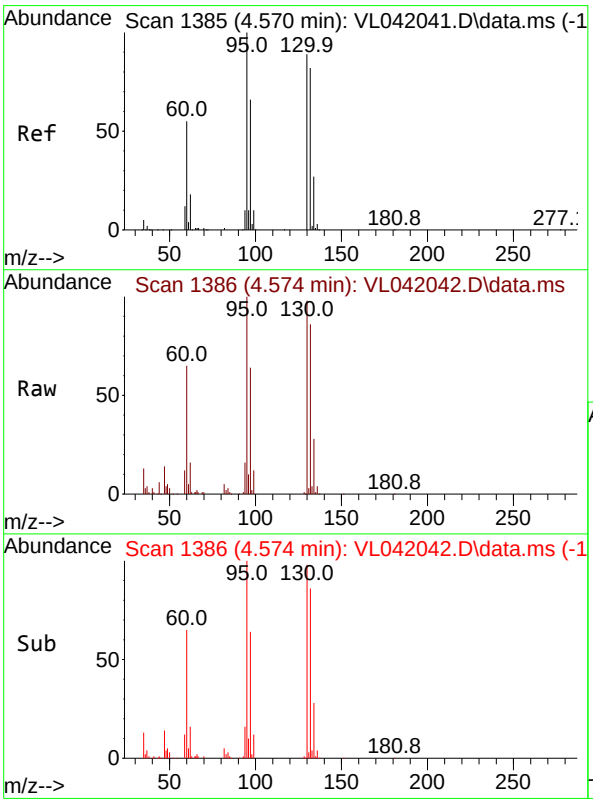
Ion	Ratio	Lower	Upper
62	100		
98	7.6	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

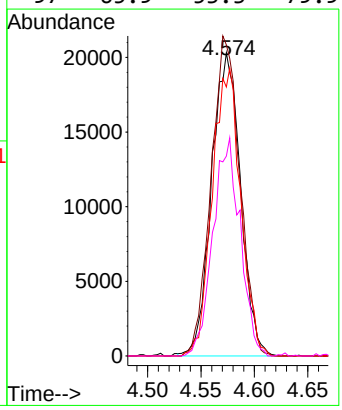
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

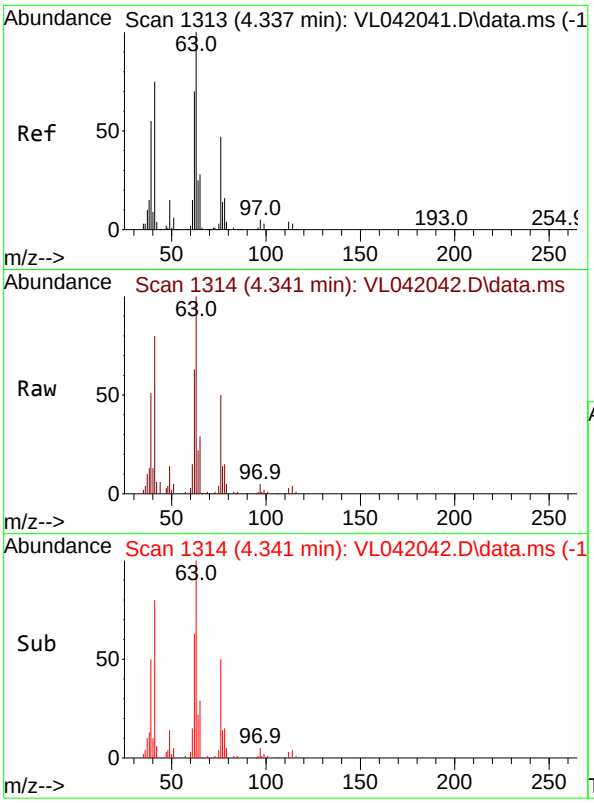


#38
Trichloroethene
Concen: 1.817 ppbv
RT: 4.574 min Scan# 1386
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:130 Resp: 38184

Ion	Ratio	Lower	Upper
130	100		
95	102.6	82.8	124.2
132	88.7	70.0	105.0
97	65.9	53.3	79.9

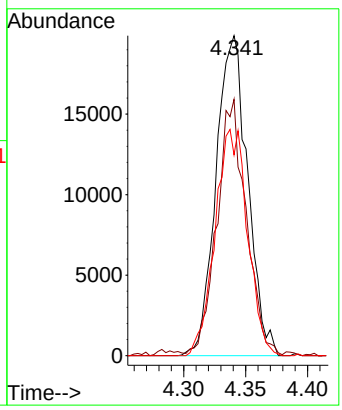




#39
1,2-Dichloropropane
Concen: 1.866 ppbv
RT: 4.341 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 63 Resp: 3539

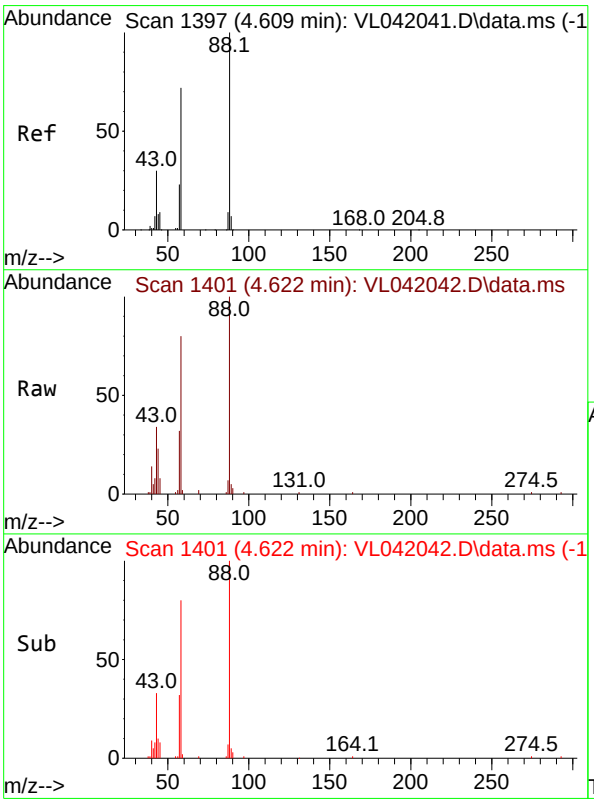
Ion	Ratio	Lower	Upper
63	100		
41	79.2	60.1	90.1
62	62.8	54.0	81.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

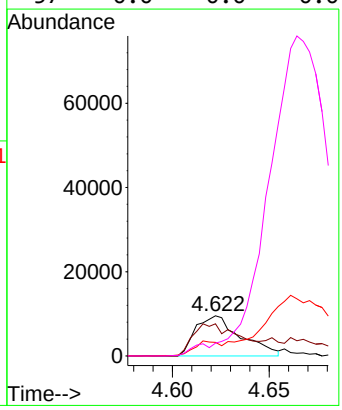
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

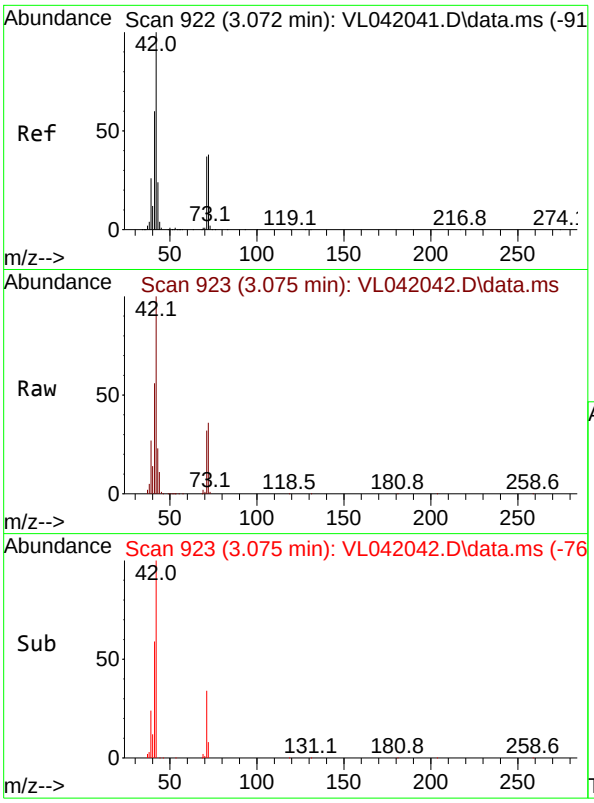


#40
1,4-Dioxane
Concen: 1.565 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.013 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 88 Resp: 15442

Ion	Ratio	Lower	Upper
88	100		
58	138.2	58.1	87.1#
43	0.0	27.3	40.9#
57	0.0	0.0	0.0

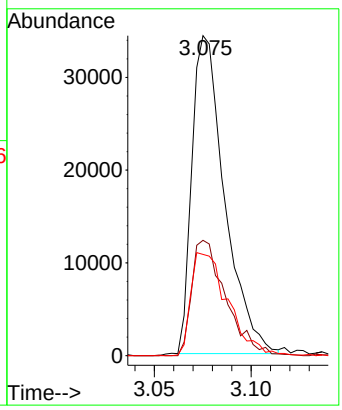




#41
Tetrahydrofuran
Concen: 1.922 ppbv
RT: 3.075 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 42 Resp: 4036

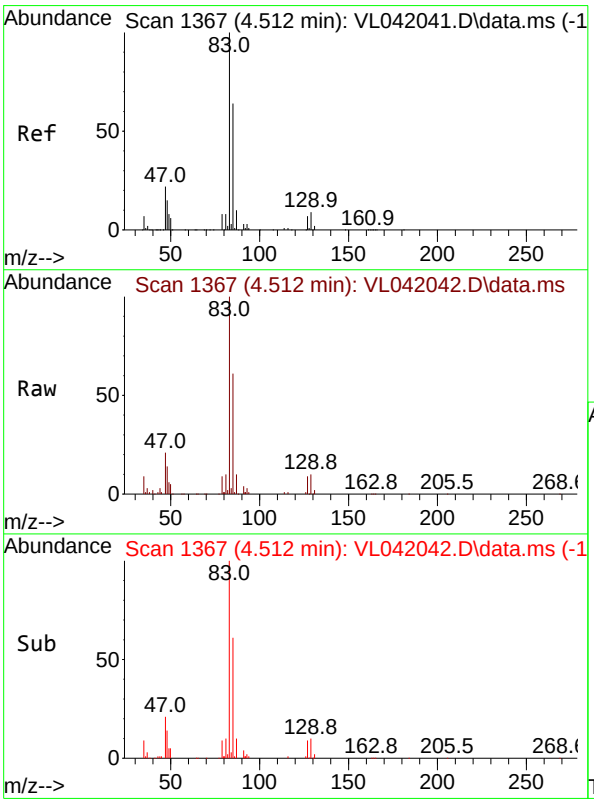
Ion	Ratio	Lower	Upper
42	100		
72	37.9	32.3	48.5
71	36.7	30.9	46.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

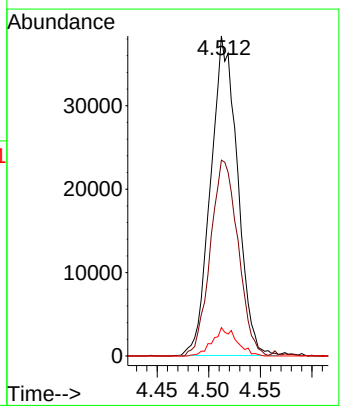
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

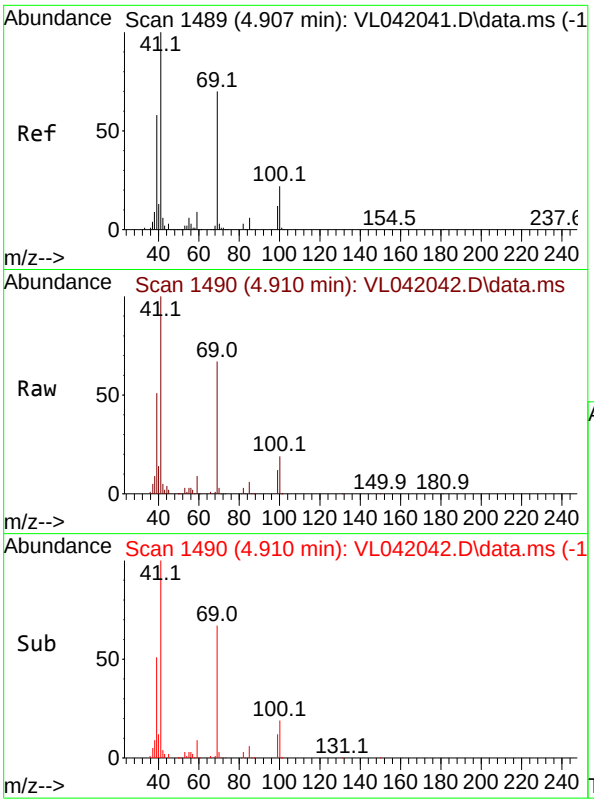


#42
Bromodichloromethane
Concen: 1.733 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 83 Resp: 69154

Ion	Ratio	Lower	Upper
83	100		
85	61.3	53.3	79.9
127	8.9	6.0	9.0

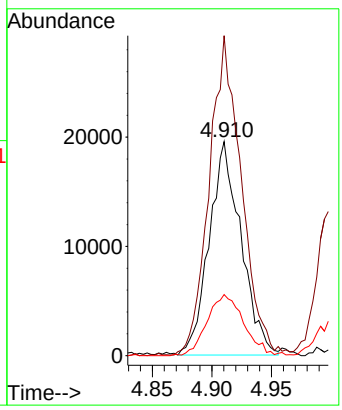




#43
Methyl Methacrylate
Concen: 1.543 ppbv
RT: 4.910 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 69 Resp: 3639

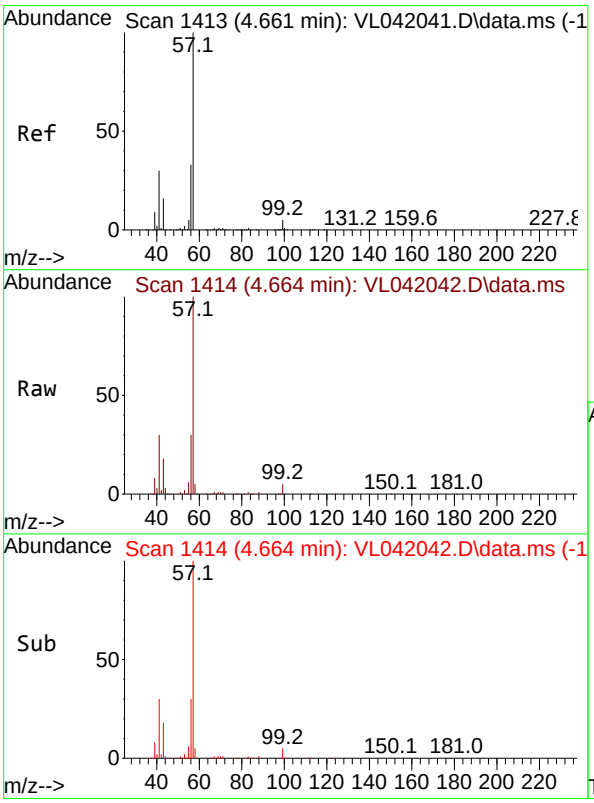
Ion	Ratio	Lower	Upper
69	100		
41	151.7	114.9	172.3
100	33.0	28.8	43.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

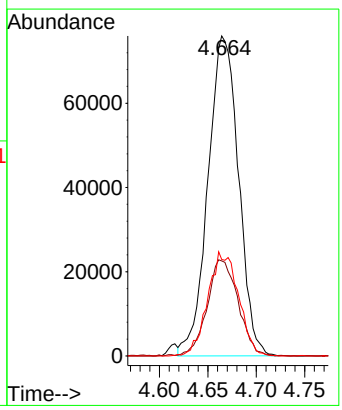
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

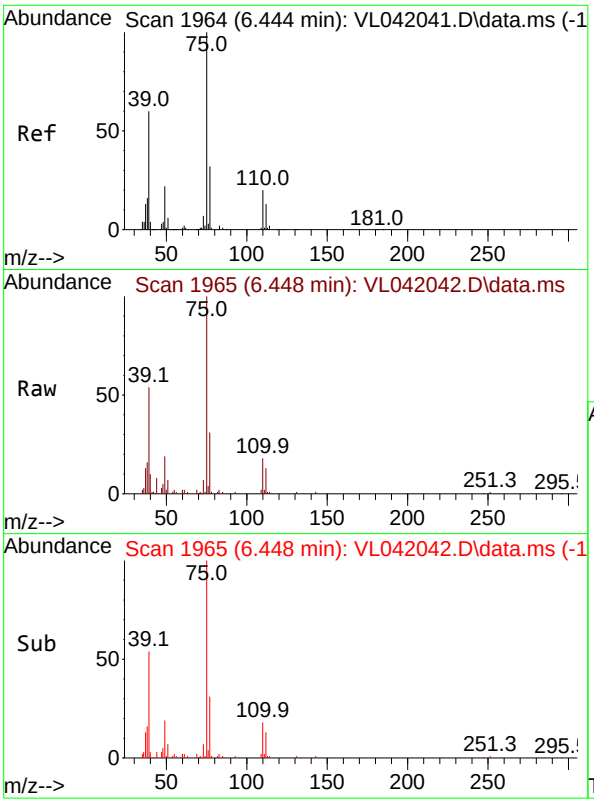


#44
2,2,4-Trimethylpentane
Concen: 1.901 ppbv
RT: 4.664 min Scan# 1414
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 57 Resp: 166945

Ion	Ratio	Lower	Upper
57	100		
41	30.6	25.9	38.9
56	32.5	24.9	37.3

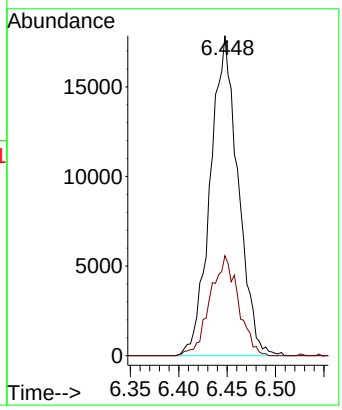




#45
t-1,3-Dichloropropene
Concen: 1.604 ppbv
RT: 6.448 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 75 Resp: 3570

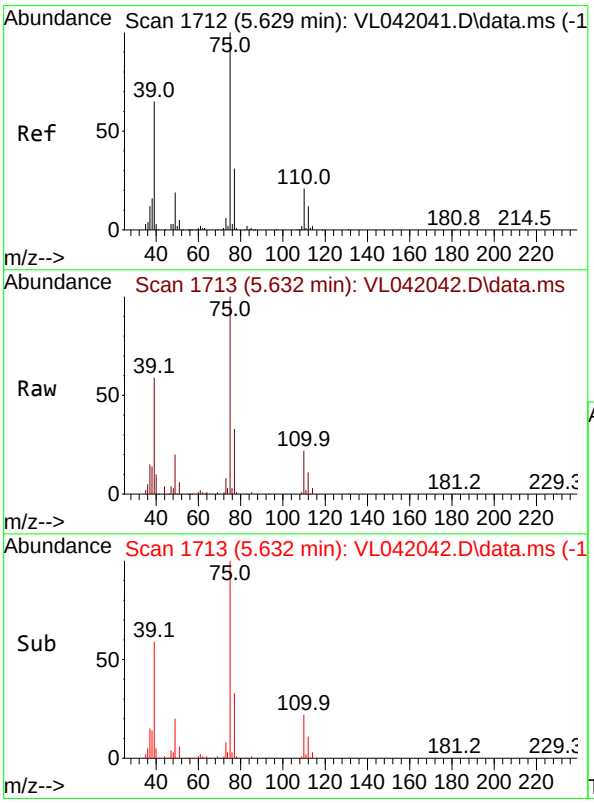
Ion	Ratio	Lower	Upper
75	100		
77	31.3	22.1	33.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

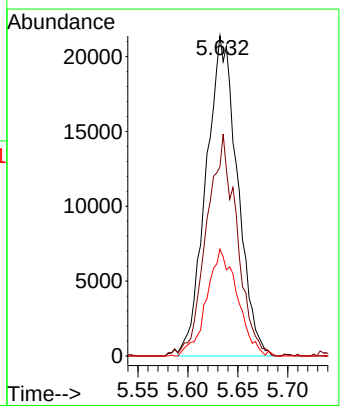
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

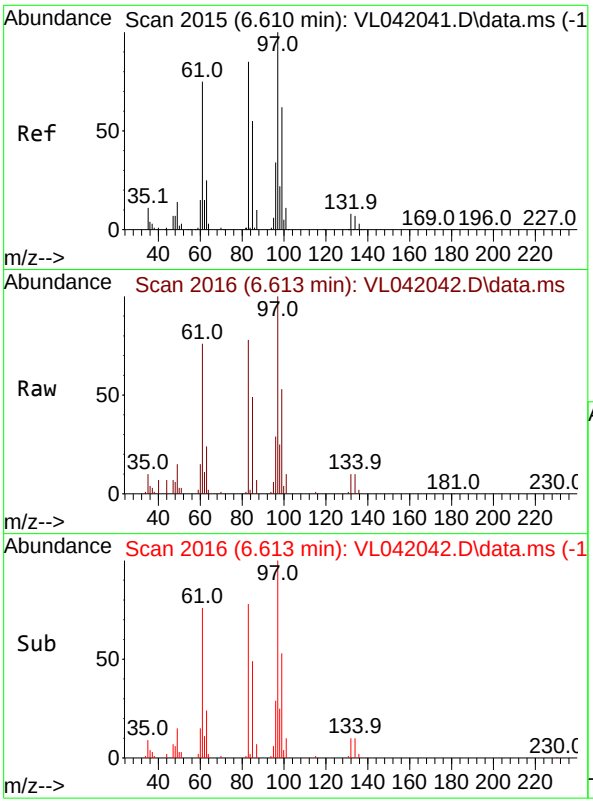


#46
cis-1,3-Dichloropropene
Concen: 1.658 ppbv
RT: 5.632 min Scan# 1713
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 75 Resp: 46835

Ion	Ratio	Lower	Upper
75	100		
39	59.1	52.2	78.4
77	33.4	24.5	36.7

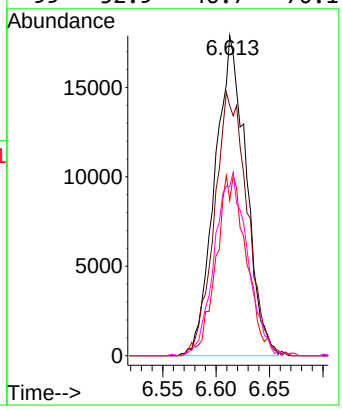




#47
1,1,2-Trichloroethane
Concen: 1.822 ppbv
RT: 6.613 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 97 Resp: 3636

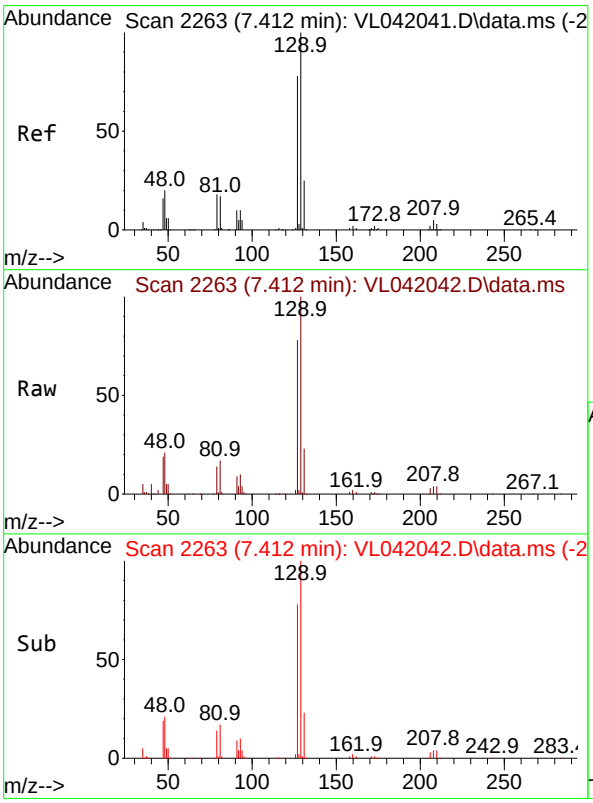
Ion	Ratio	Lower	Upper
97	100		
83	78.1	68.6	102.8
85	48.5	42.2	63.4
99	52.9	46.7	70.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

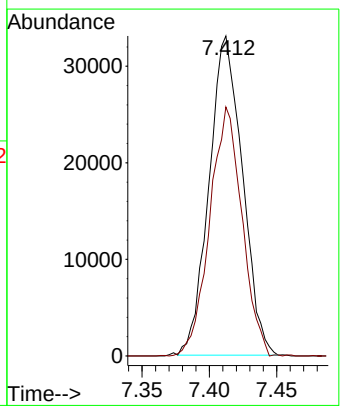
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

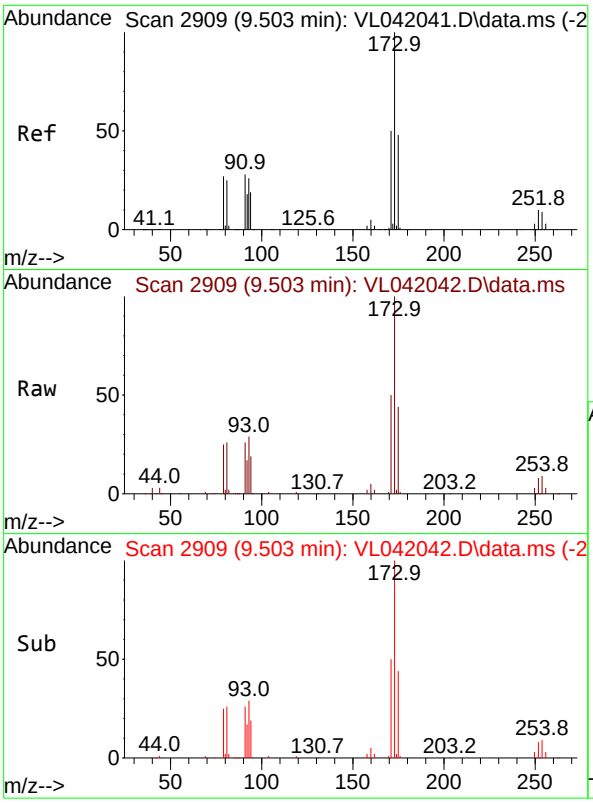


#48
Dibromochloromethane
Concen: 1.703 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:129 Resp: 56931

Ion	Ratio	Lower	Upper
129	100		
127	75.6	38.2	114.6

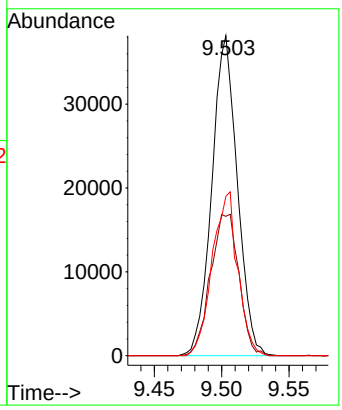




#49
Bromoform
Concen: 1.833 ppbv
RT: 9.503 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:173 Resp: 5025

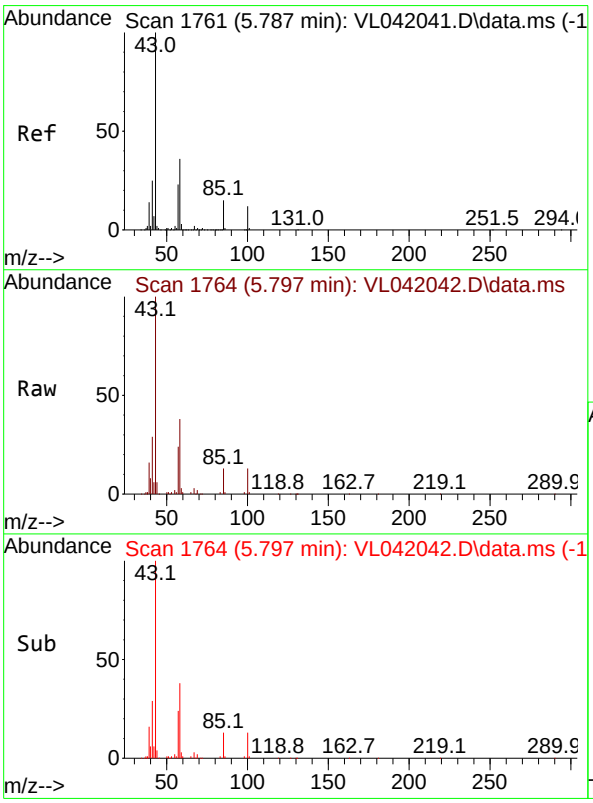
Ion	Ratio	Lower	Upper
173	100		
175	49.3	39.3	58.9
171	51.1	41.4	62.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

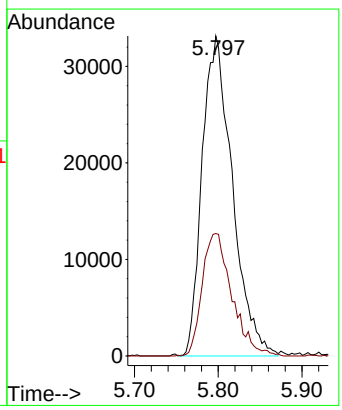
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

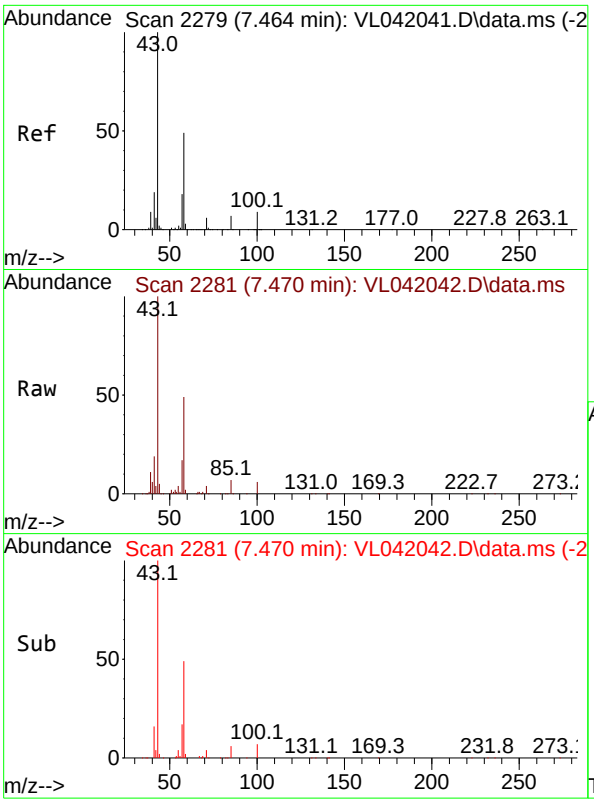


#50
4-Methyl-2-Pentanone
Concen: 1.474 ppbv
RT: 5.797 min Scan# 1764
Delta R.T. 0.013 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 83246

Ion	Ratio	Lower	Upper
43	100		
58	37.6	29.4	44.0

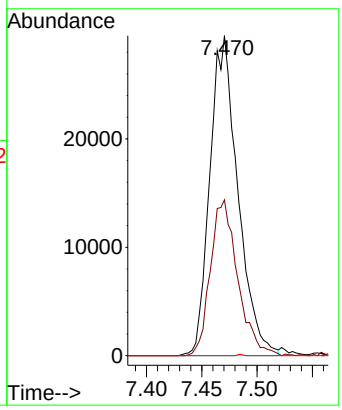




#51
2-Hexanone
Concen: 1.124 ppbv
RT: 7.470 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 5192

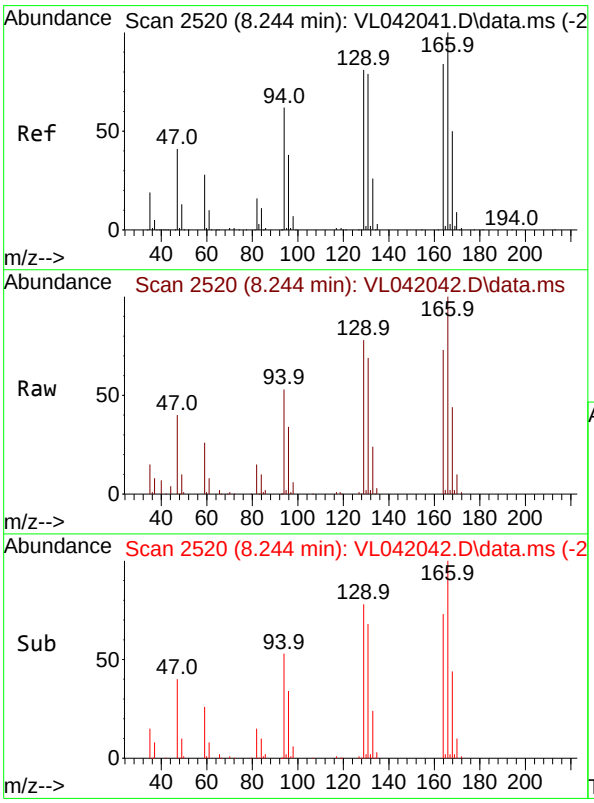
Ion	Ratio	Lower	Upper
43	100		
58	47.5	41.4	62.0
98	0.0	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

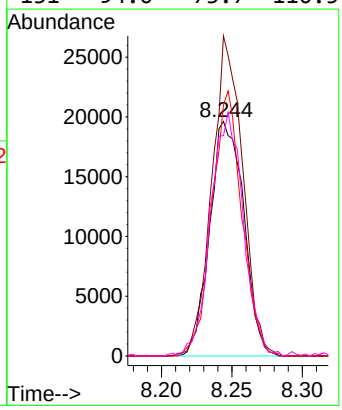
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

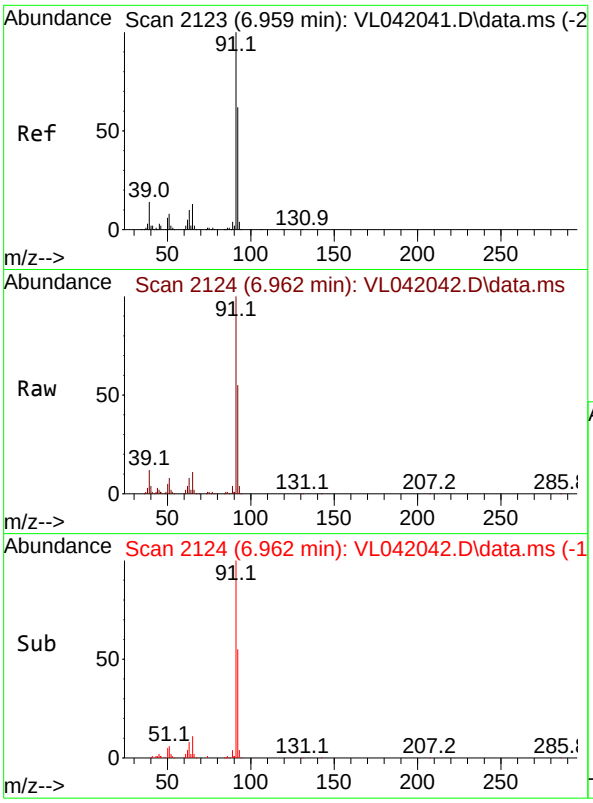


#52
Tetrachloroethene
Concen: 1.822 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:164 Resp: 32874

Ion	Ratio	Lower	Upper
164	100		
166	136.1	102.2	153.2
129	107.1	82.2	123.4
131	94.0	73.7	110.5

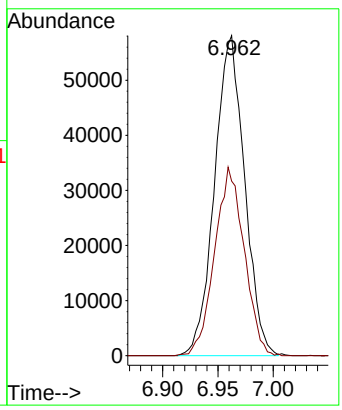




#53
Toluene
Concen: 1.779 ppbv
RT: 6.962 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 10964

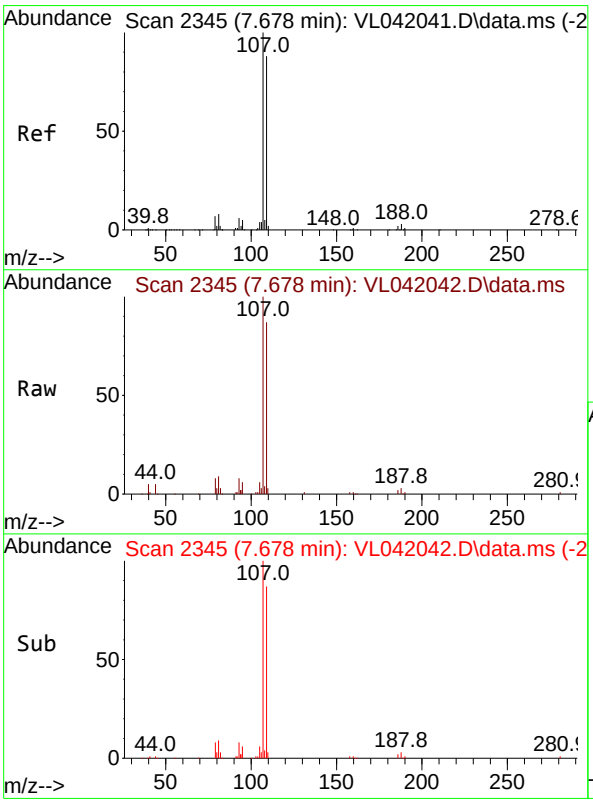
Ion	Ratio	Lower	Upper
91	100		
92	57.9	47.5	71.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

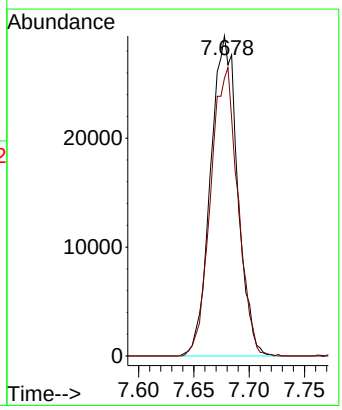
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

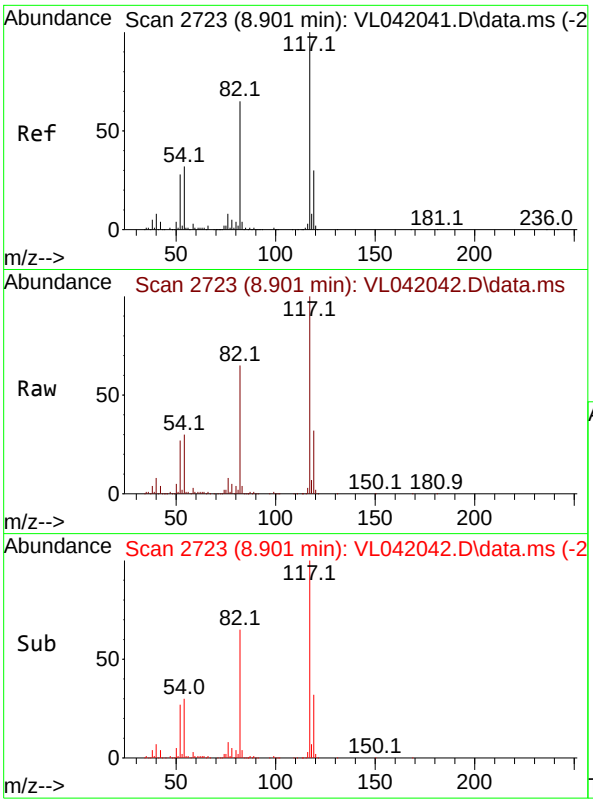


#54
1,2-Dibromoethane
Concen: 1.820 ppbv
RT: 7.678 min Scan# 2345
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:107 Resp: 50010

Ion	Ratio	Lower	Upper
107	100		
109	86.8	71.5	107.3

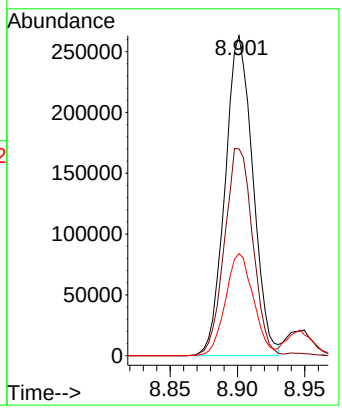




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:117 Resp: 37791

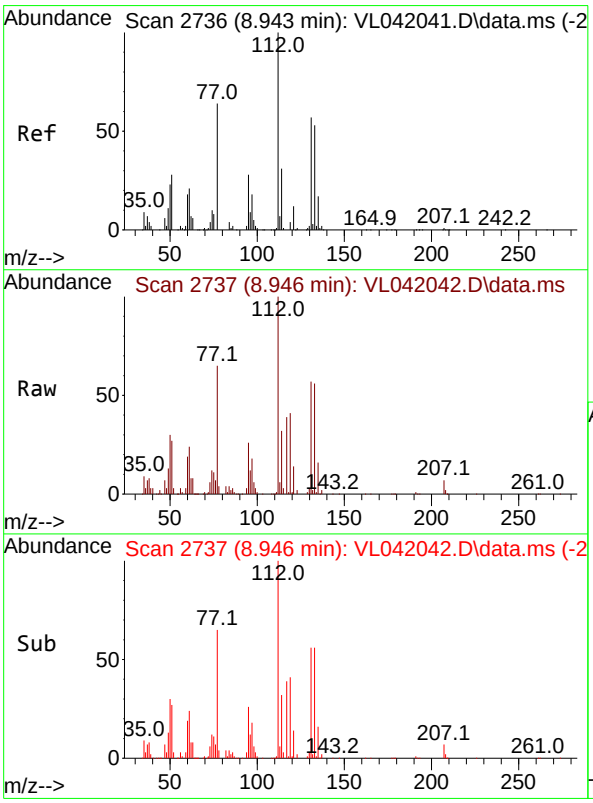
Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.7	83.5
119	32.4	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

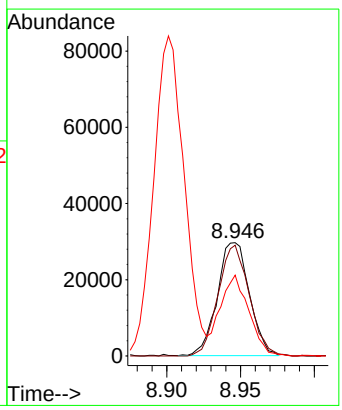
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

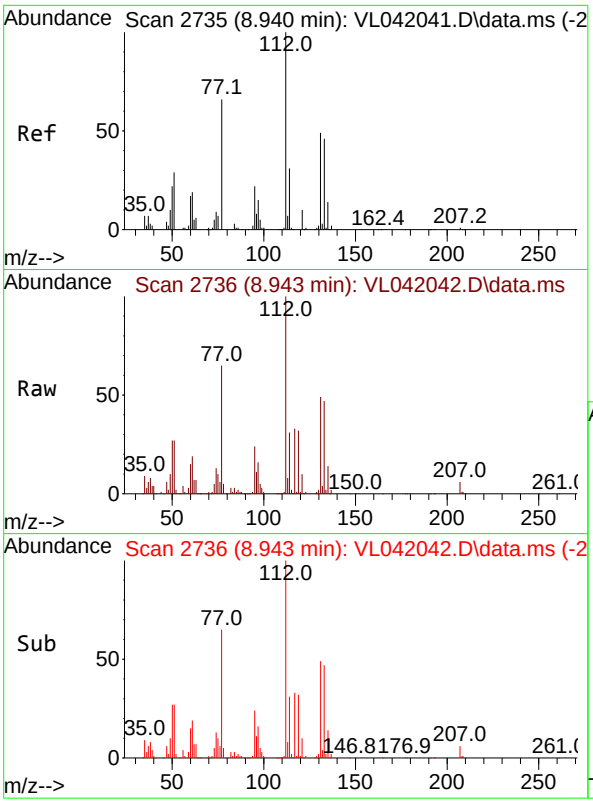


#56
1,1,1,2-Tetrachloroethane
Concen: 1.662 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:131 Resp: 44947

Ion	Ratio	Lower	Upper
131	100		
133	95.0	77.8	116.8
119	61.8	49.1	73.7

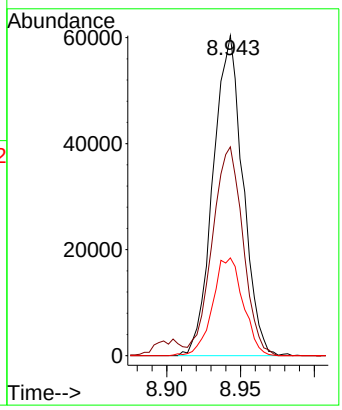




#57
Chlorobenzene
Concen: 1.906 ppbv
RT: 8.943 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:112 Resp: 8474

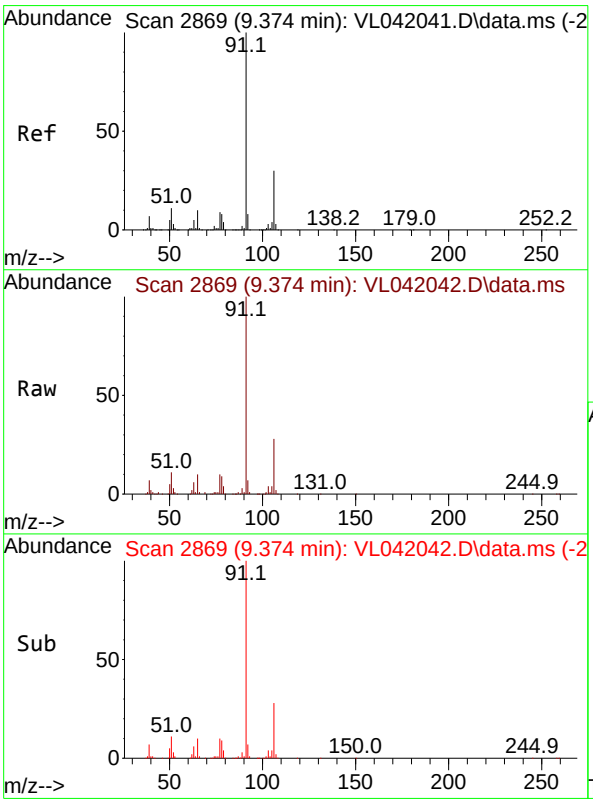
Ion	Ratio	Lower	Upper
112	100		
77	65.2	56.2	84.2
114	30.6	28.2	34.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

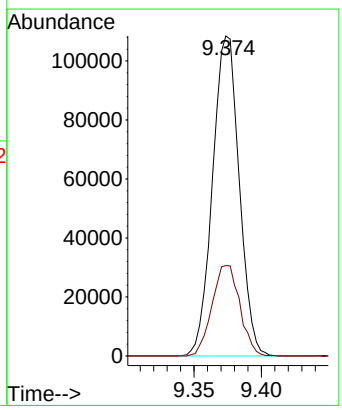
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

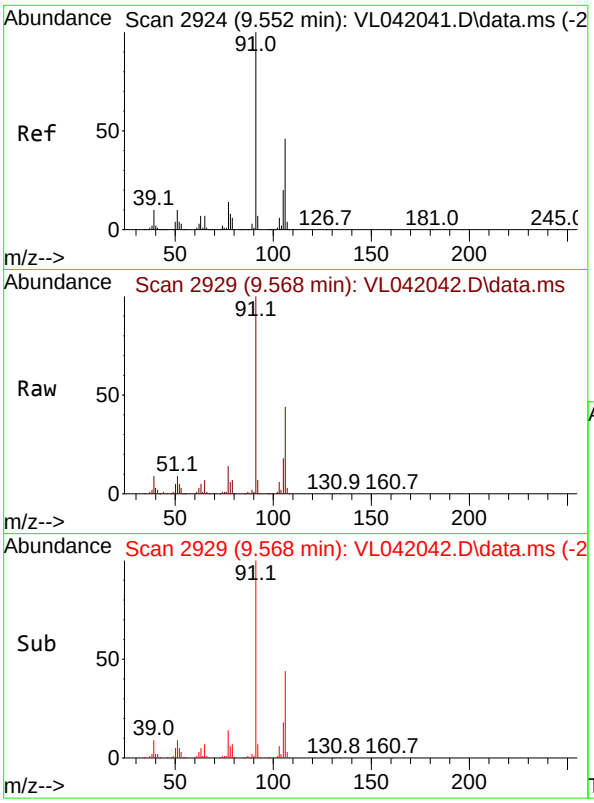


#58
Ethyl Benzene
Concen: 1.804 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 149185

Ion	Ratio	Lower	Upper
91	100		
106	28.3	23.1	34.7

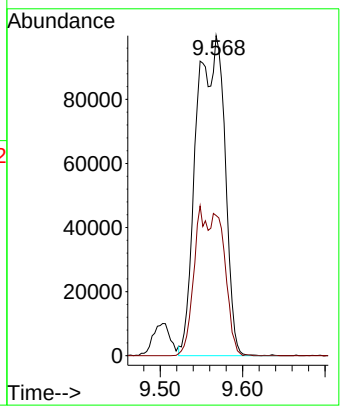




#59
m/p-Xylene
Concen: 3.666 ppbv m
RT: 9.568 min Scan# 2
Delta R.T. 0.020 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 23880

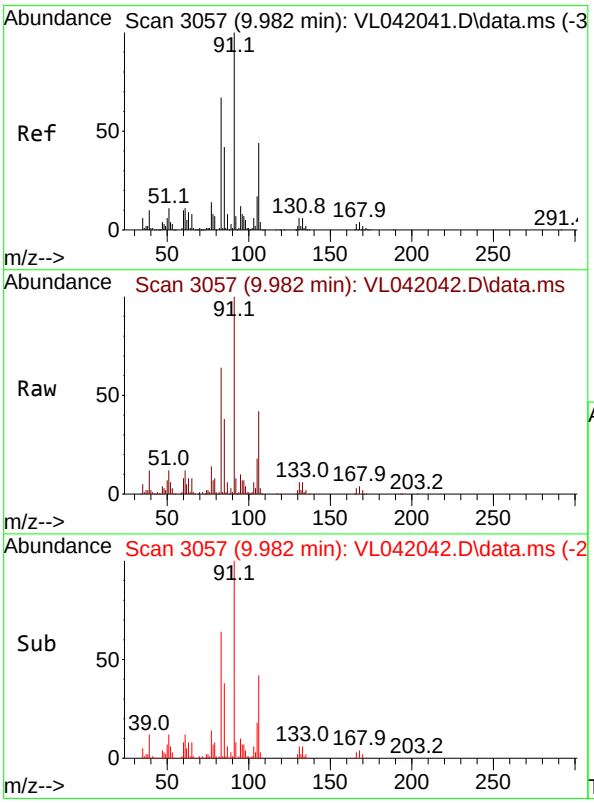
Ion	Ratio	Lower	Upper
91	100		
106	47.0	35.8	53.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

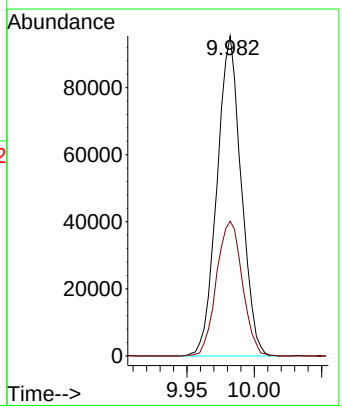
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

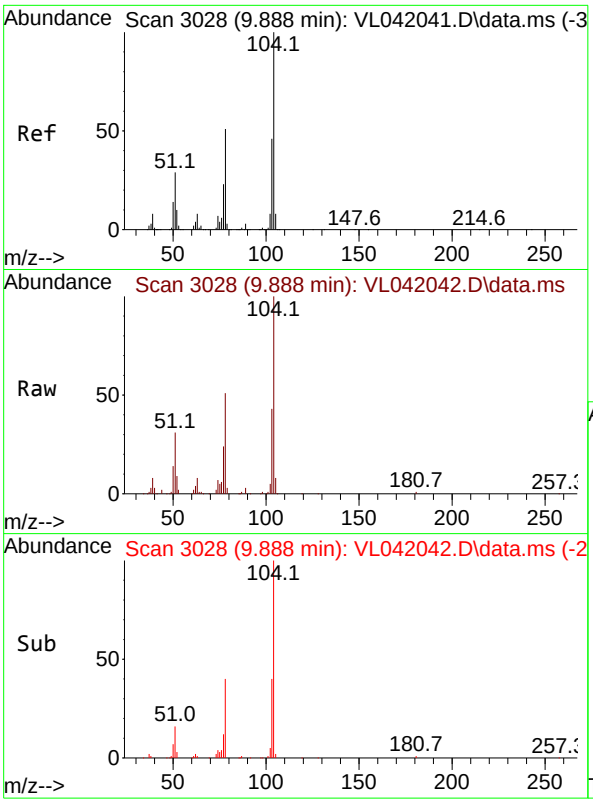


#60
o-Xylene
Concen: 1.809 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 119170

Ion	Ratio	Lower	Upper
91	100		
106	45.0	21.4	64.3

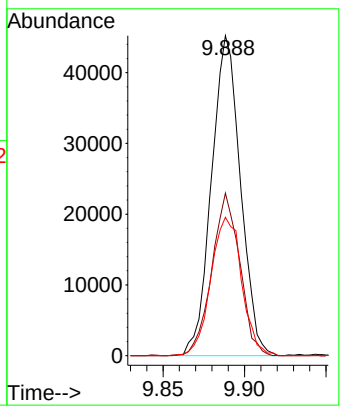




#61
Styrene
Concen: 1.776 ppbv
RT: 9.888 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:104 Resp: 5579

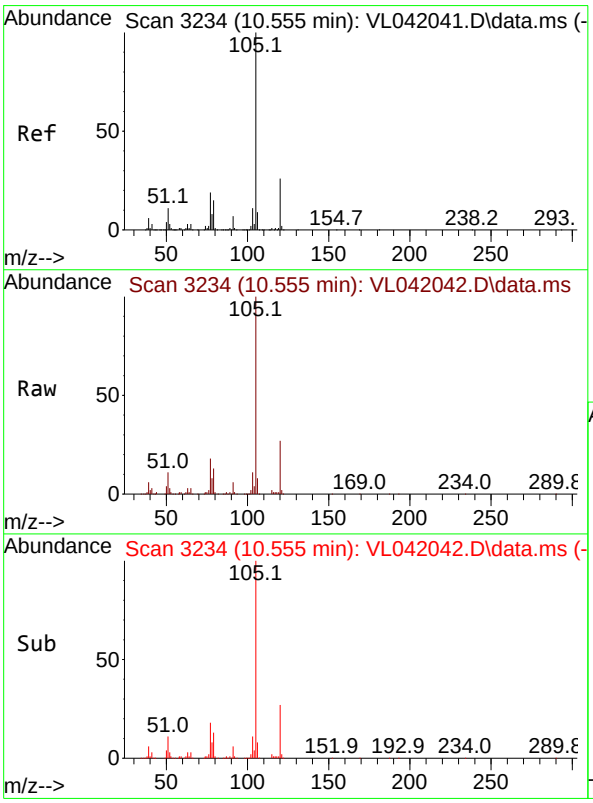
Ion	Ratio	Lower	Upper
104	100		
78	49.1	42.2	63.4
103	46.2	38.1	57.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

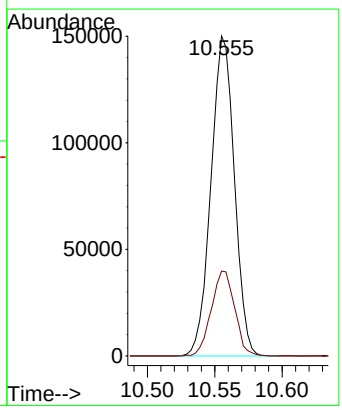
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

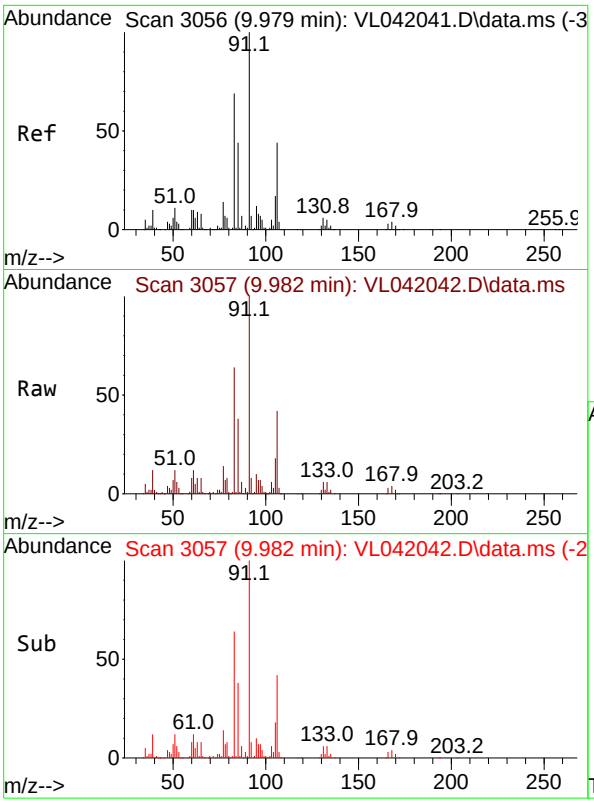


#62
Isopropylbenzene
Concen: 1.833 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:105 Resp: 181311

Ion	Ratio	Lower	Upper
105	100		
120	26.5	19.8	29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 1.833 ppbv
RT: 9.982 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

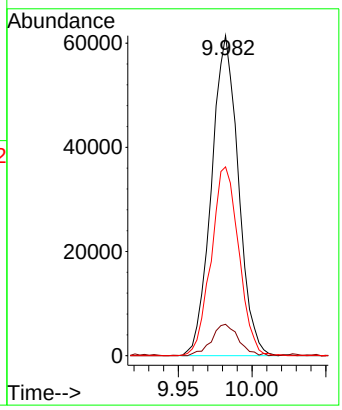
Tgt Ion: 83 Resp: 7791

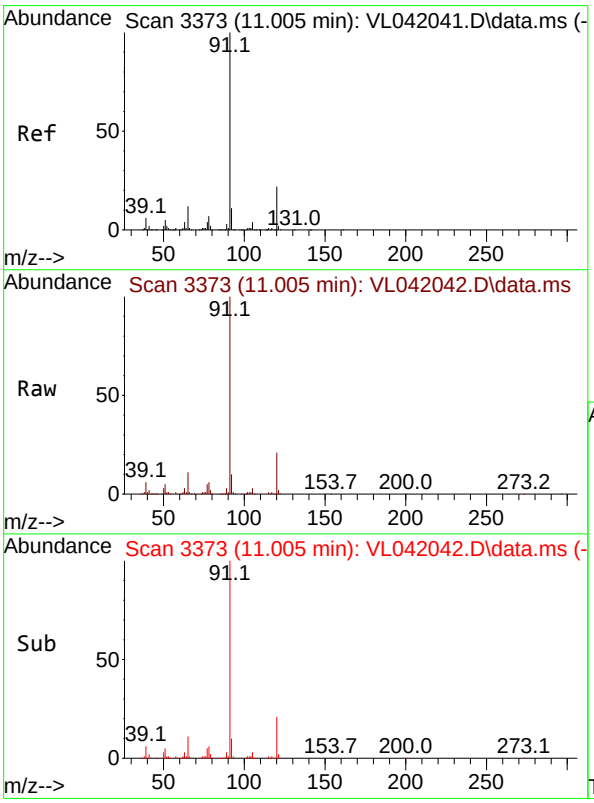
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	15.0
85	60.6	32.1	96.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

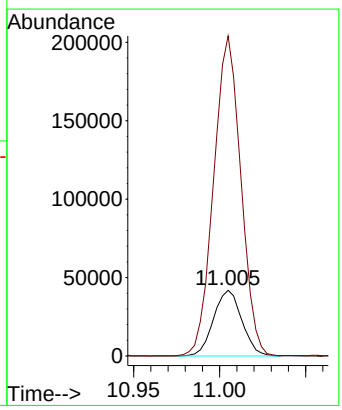


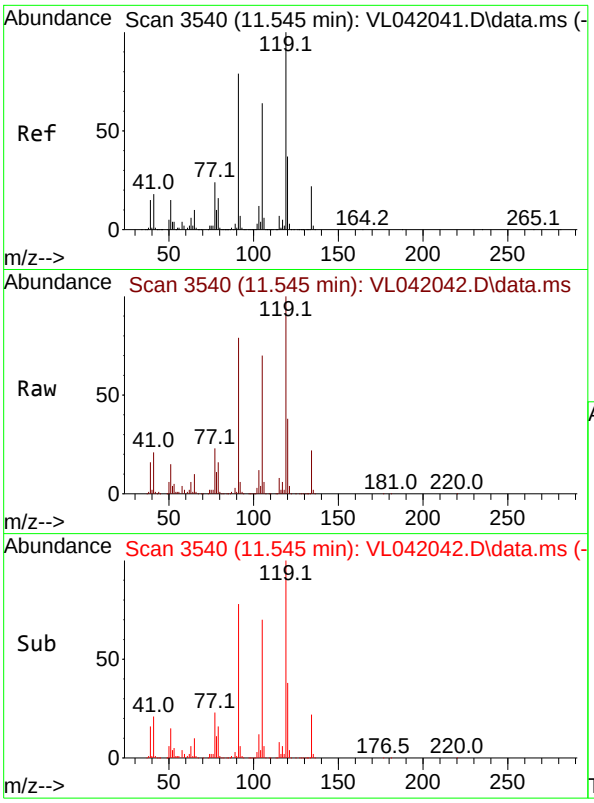


#64
n-propylbenzene
Concen: 1.965 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:120 Resp: 47764

Ion	Ratio	Lower	Upper
120	100		
91	469.7	392.2	588.2





#65
tert-Butylbenzene
Concen: 1.948 ppbv
RT: 11.545 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

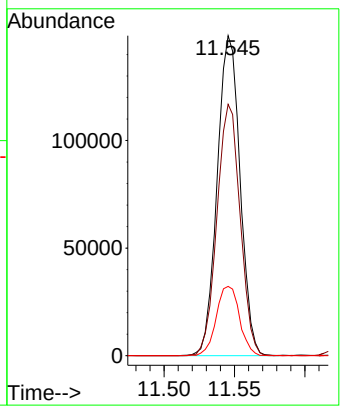
Tgt Ion:119 Resp: 16797

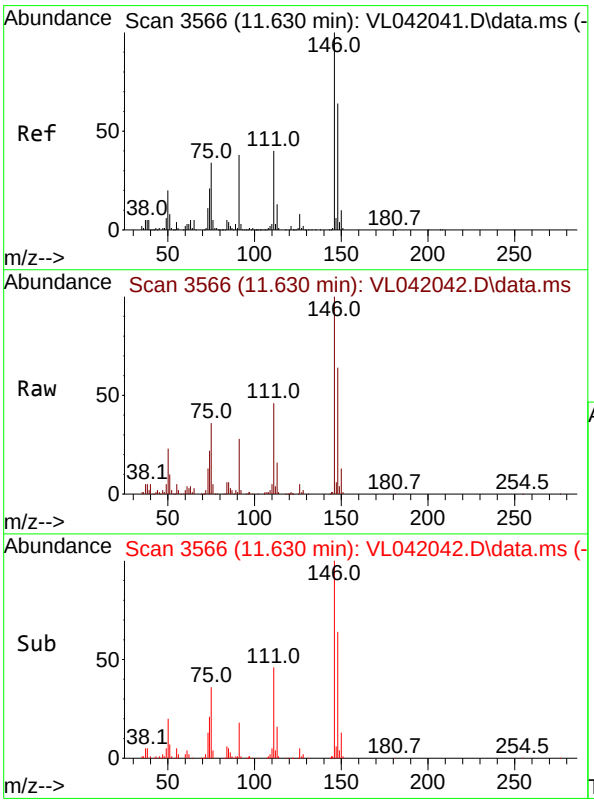
Ion	Ratio	Lower	Upper
119	100		
91	79.5	66.5	99.7
134	22.1	16.6	24.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

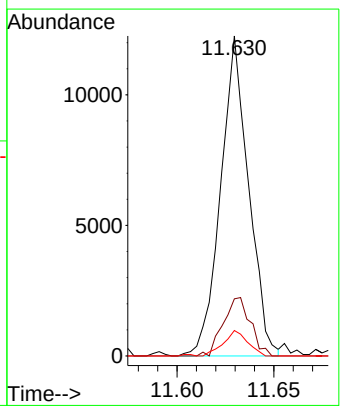


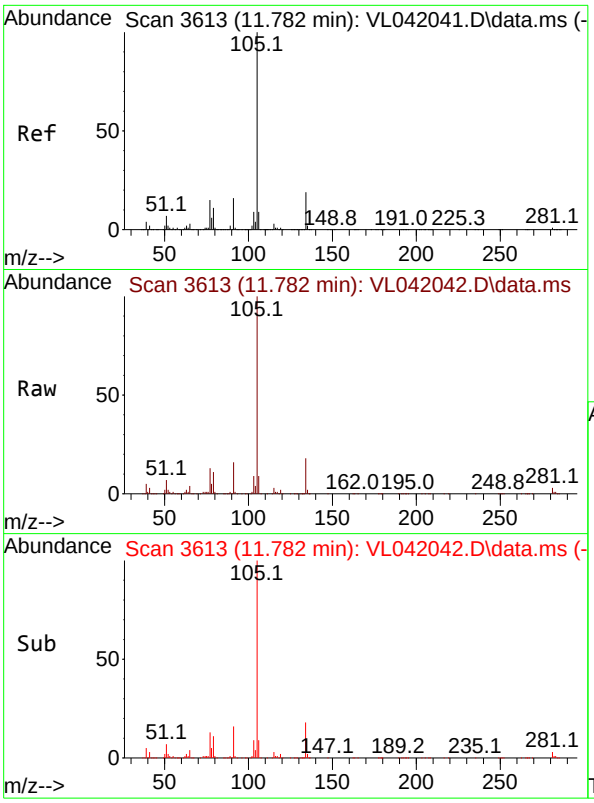


#66
Benzyl Chloride
Concen: 1.423 ppbv
RT: 11.630 min Scan# 3566
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 12304

Ion	Ratio	Lower	Upper
91	100		
126	17.7	13.8	20.6
128	7.0	4.1	6.1#

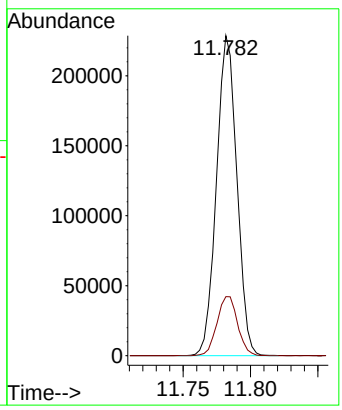




#67
sec-Butylbenzene
Concen: 1.986 ppbv
RT: 11.782 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:105 Resp: 24050

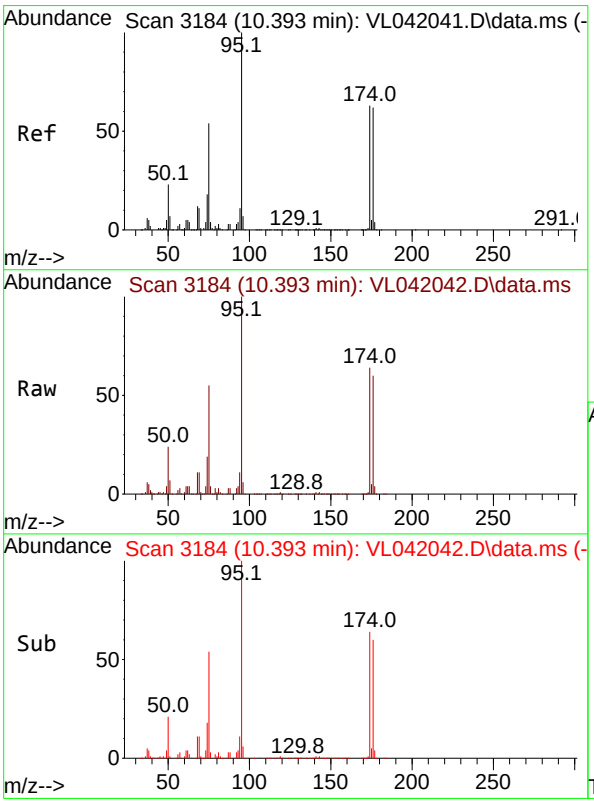
Ion	Ratio	Lower	Upper
105	100		
134	18.7	14.7	22.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

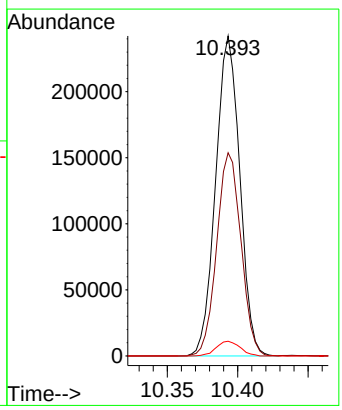
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

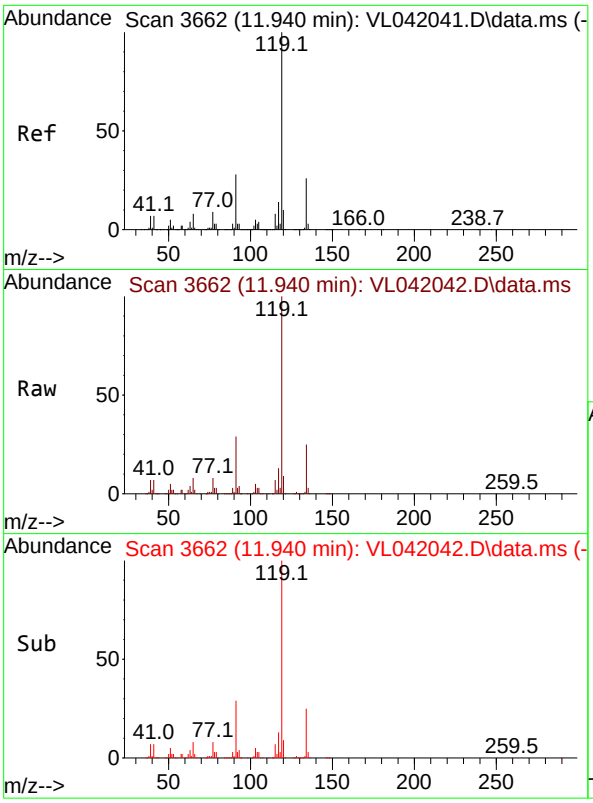


#68
1-Bromo-4-Fluorobenzene
Concen: 9.273 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 95 Resp: 289049

Ion	Ratio	Lower	Upper
95	100		
174	63.8	46.7	70.1
175	4.5	3.7	5.5

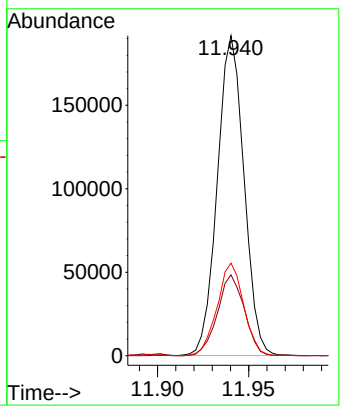




#69
p-Isopropyltoluene
Concen: 1.963 ppbv
RT: 11.940 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:119 Resp: 19466

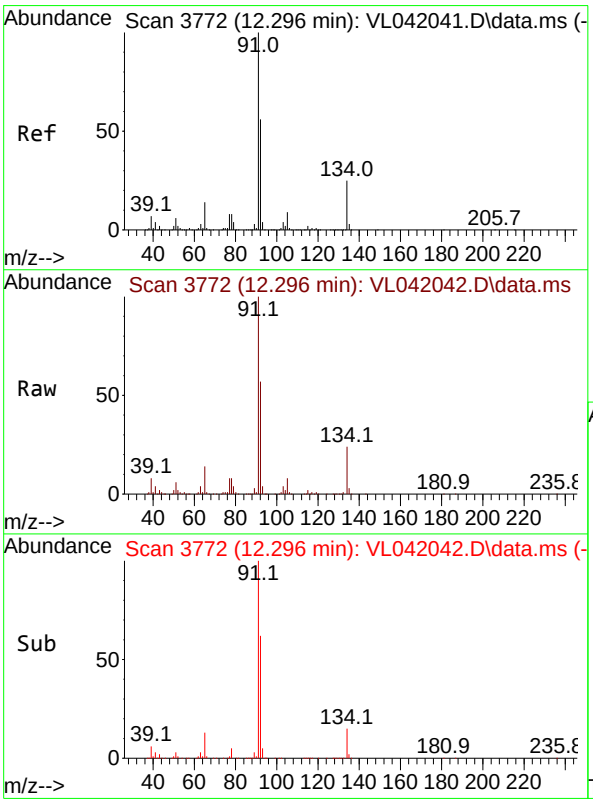
Ion	Ratio	Lower	Upper
119	100		
134	25.6	19.4	29.0
91	29.2	23.4	35.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

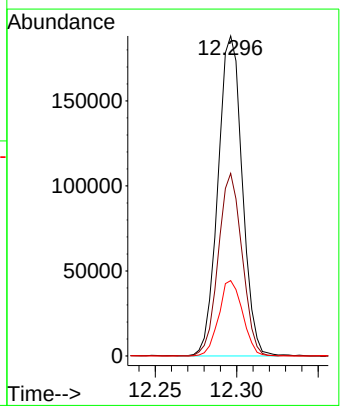
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

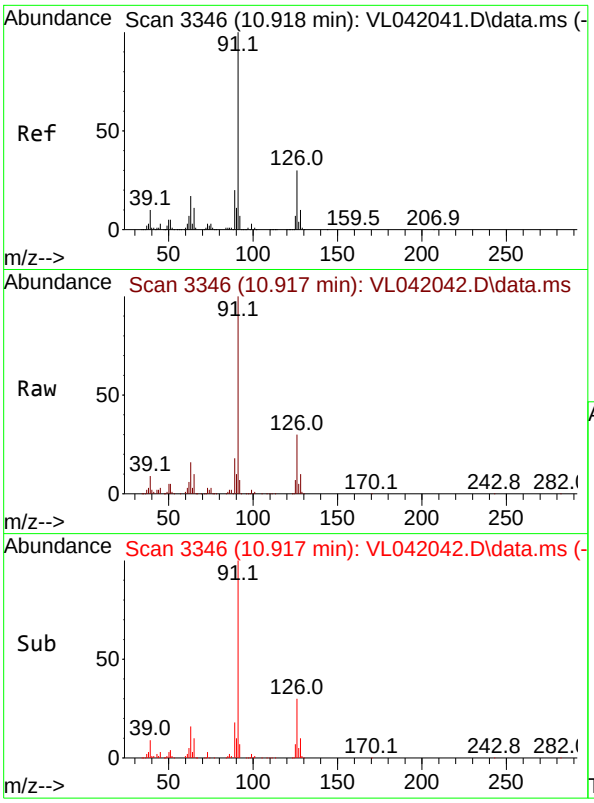


#70
n-Butylbenzene
Concen: 1.991 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 194416

Ion	Ratio	Lower	Upper
91	100		
92	56.0	43.8	65.8
134	23.2	18.6	27.8

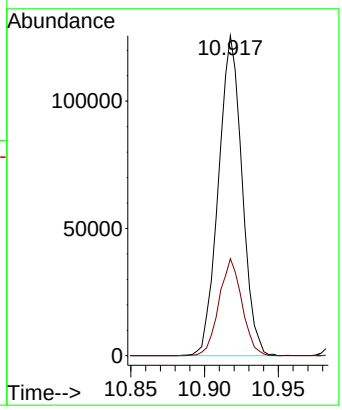




#71
2-Chlorotoluene
Concen: 1.880 ppbv
RT: 10.917 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 14006

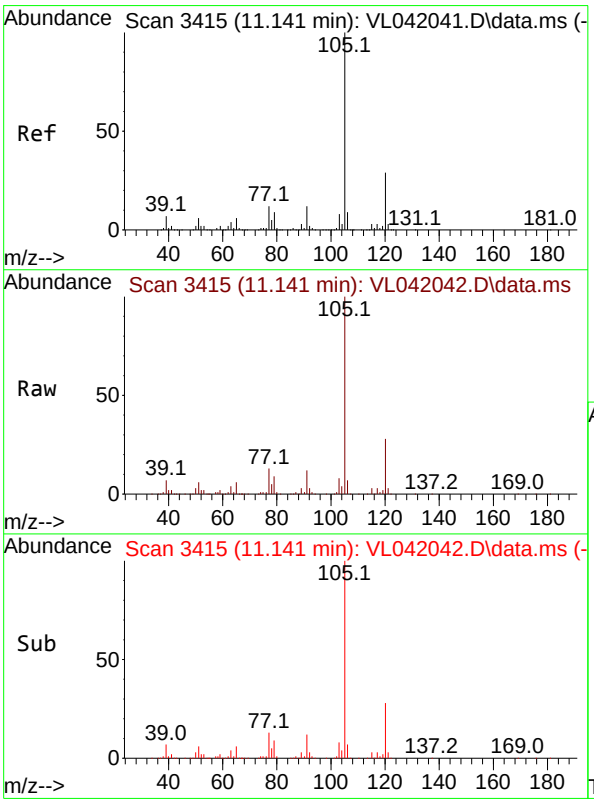
Ion	Ratio	Lower	Upper
91	100		
126	29.4	11.2	45.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

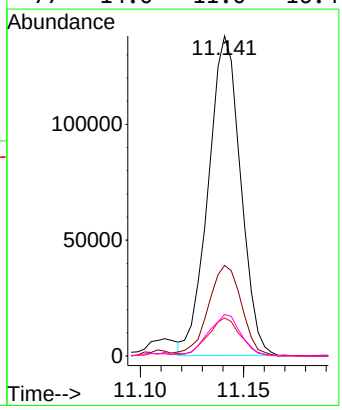
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

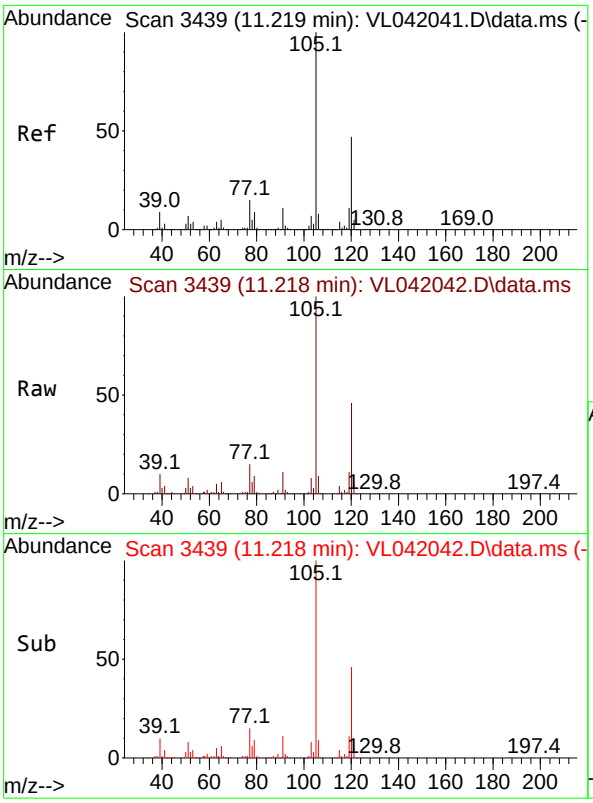


#72
4-Ethyltoluene
Concen: 1.944 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:105 Resp: 150038

Ion	Ratio	Lower	Upper
105	100		
120	30.6	22.7	34.1
91	12.9	10.2	15.2
77	14.0	11.0	16.4

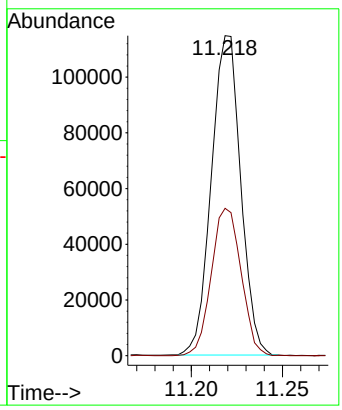




#73
1,3,5-Trimethylbenzene
Concen: 1.925 ppbv
RT: 11.218 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:105 Resp: 12820

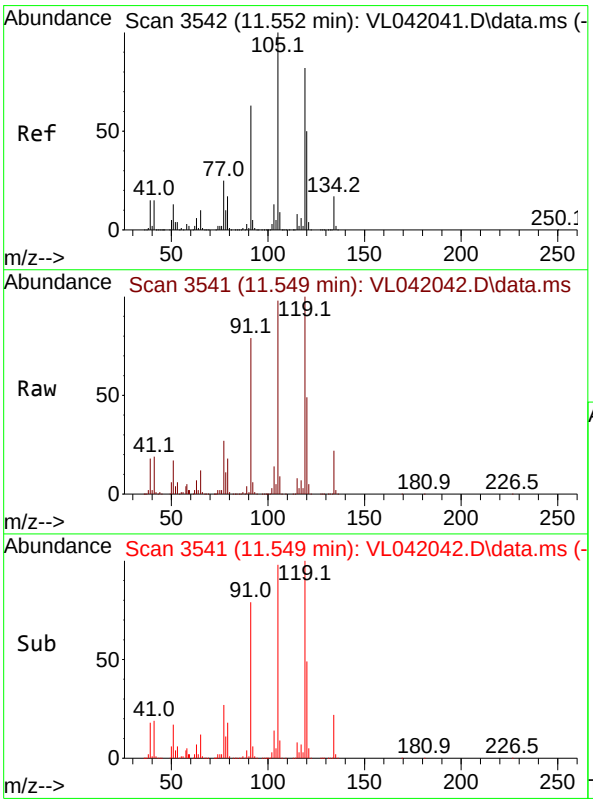
Ion	Ratio	Lower	Upper
105	100		
120	46.0	37.1	55.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

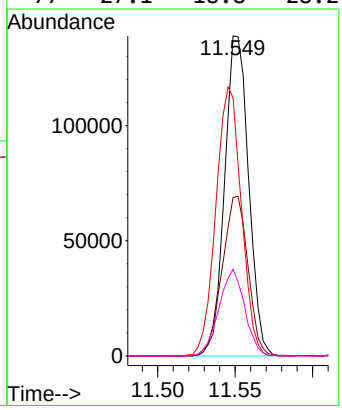
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

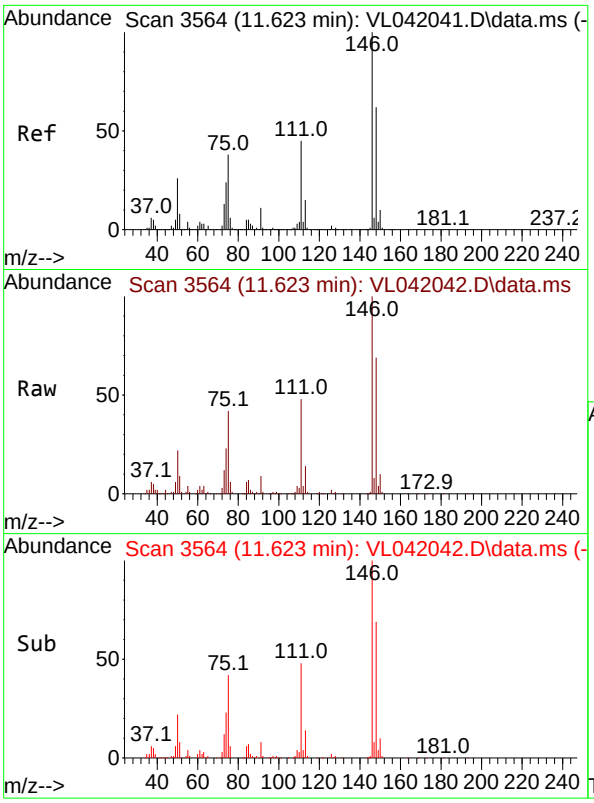


#74
1,2,4-Trimethylbenzene
Concen: 2.104 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:105 Resp: 150380

Ion	Ratio	Lower	Upper
105	100		
120	49.5	37.5	56.3
91	80.7	51.7	77.5#
77	27.1	18.8	28.2

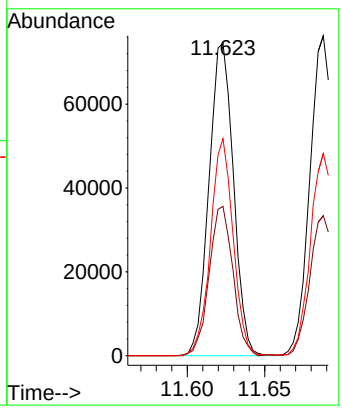




#75
1,3-Dichlorobenzene
Concen: 2.129 ppbv
RT: 11.623 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:146 Resp: 8188

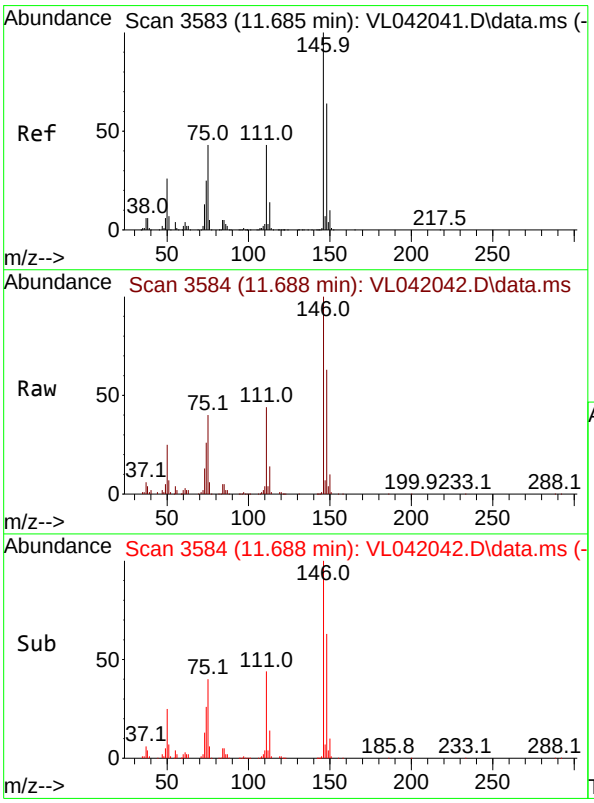
Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.9	71.7
148	64.4	31.5	94.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

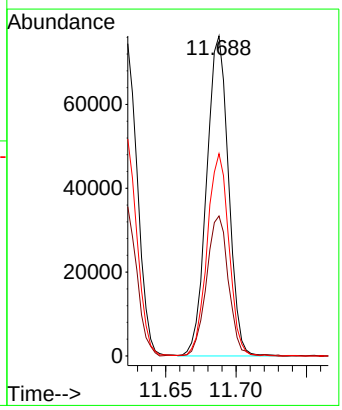
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

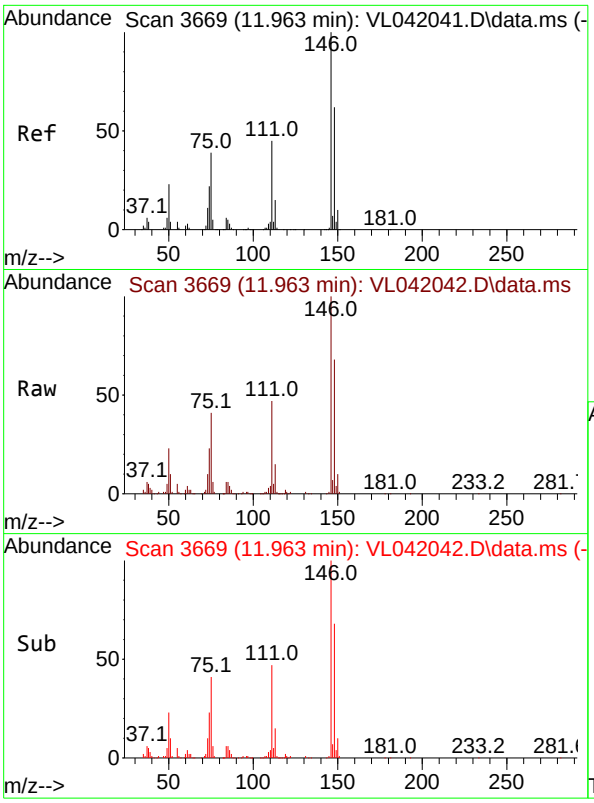


#76
1,4-Dichlorobenzene
Concen: 2.201 ppbv
RT: 11.688 min Scan# 3584
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:146 Resp: 82560

Ion	Ratio	Lower	Upper
146	100		
111	44.2	23.5	70.5
148	63.0	32.3	96.9

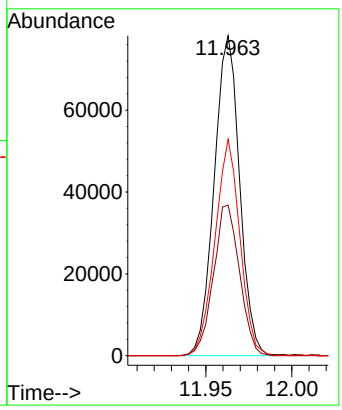




#77
1,2-Dichlorobenzene
Concen: 2.186 ppbv
RT: 11.963 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:146 Resp: 8036

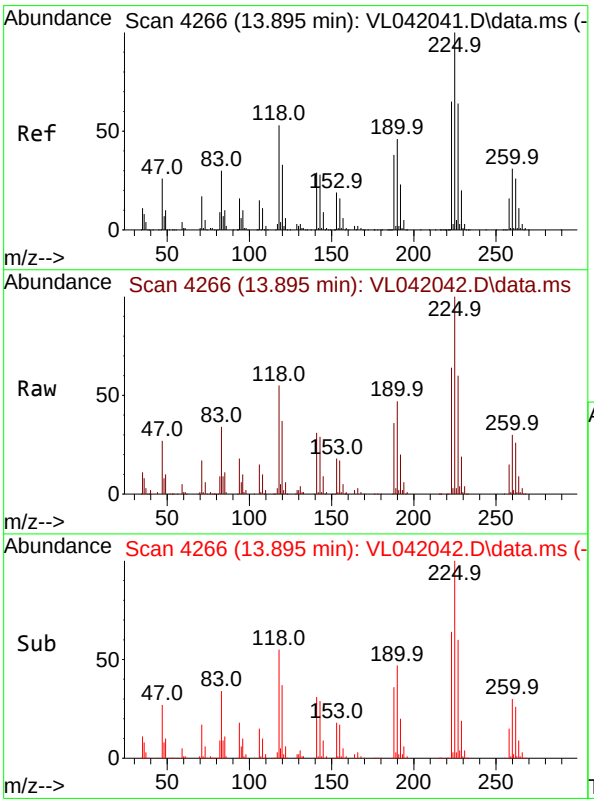
Ion	Ratio	Lower	Upper
146	100		
111	48.3	25.6	76.8
148	66.6	31.9	95.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

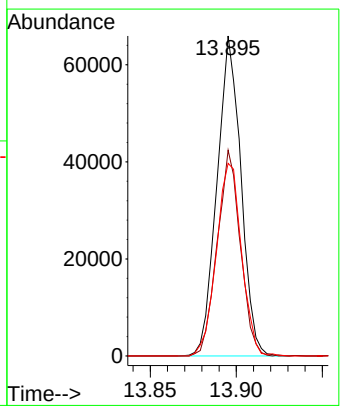
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

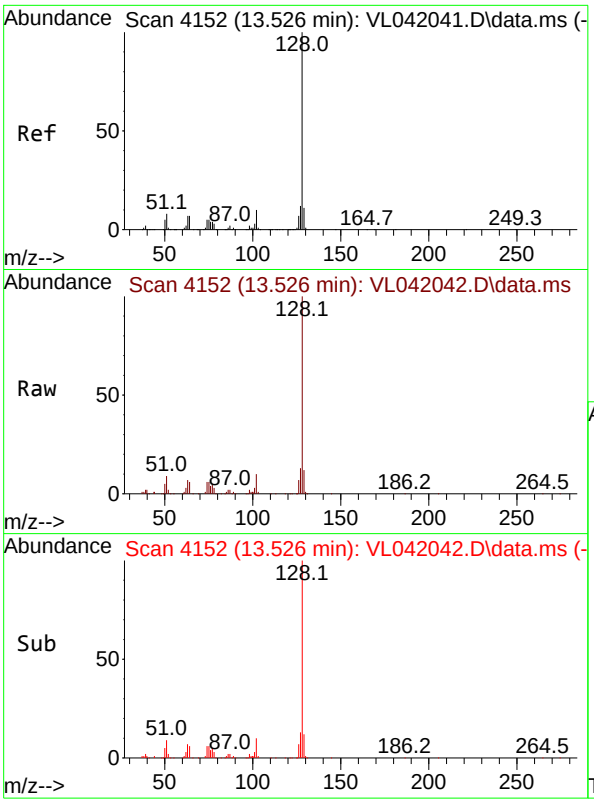


#78
Hexachloro-1,3-Butadiene
Concen: 2.098 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:225 Resp: 63815

Ion	Ratio	Lower	Upper
225	100		
223	62.1	50.6	75.8
227	63.3	50.9	76.3

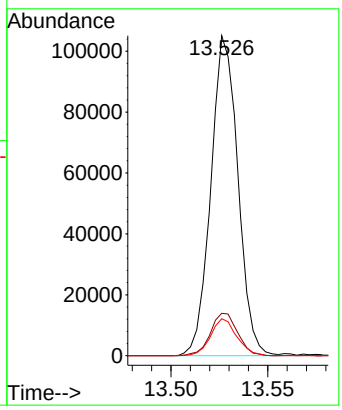




#79
Naphthalene
Concen: 1.454 ppbv
RT: 13.526 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:128 Resp: 10219

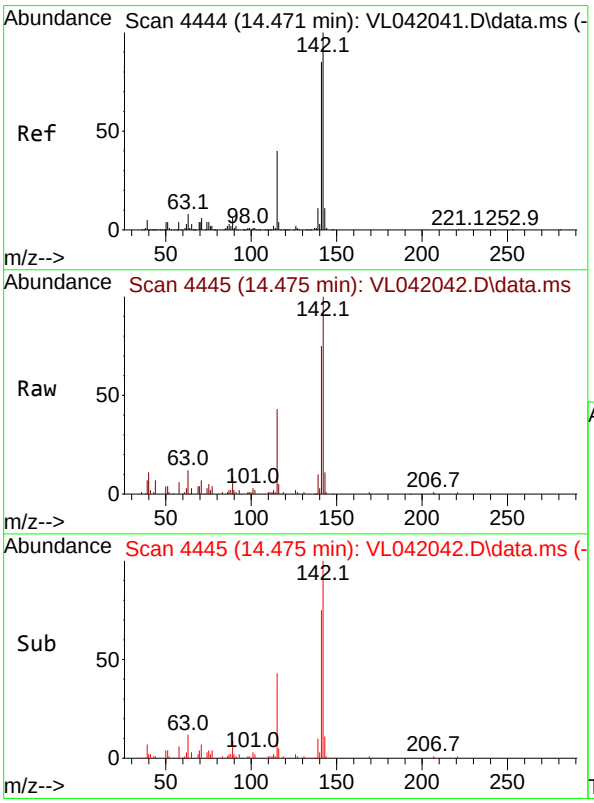
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.2
129	11.6	8.6	13.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

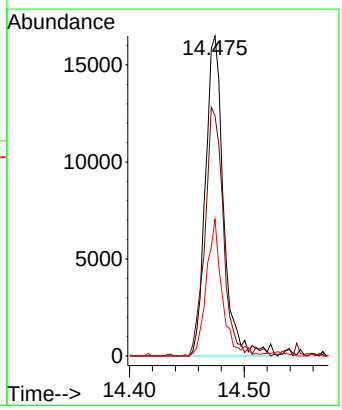
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

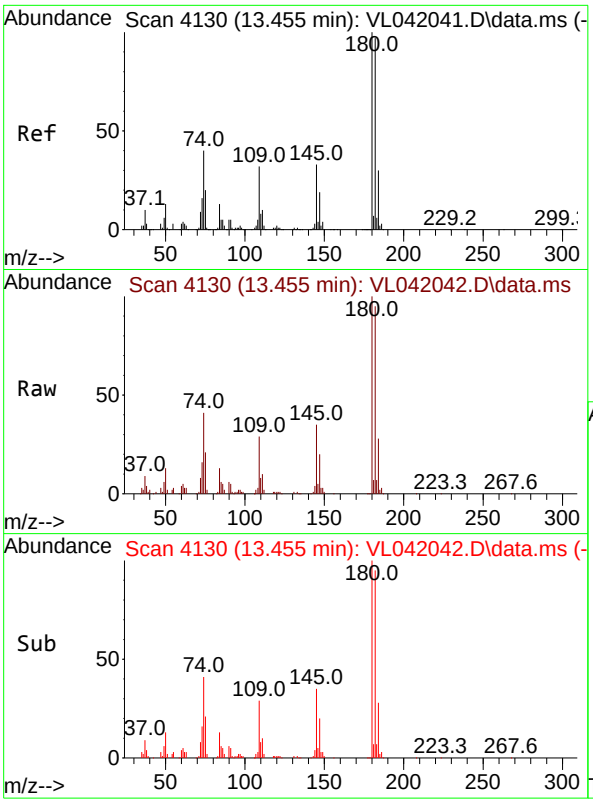


#80
Naphthalene,2-methyl-
Concen: 0.569 ppbv
RT: 14.475 min Scan# 4445
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:142 Resp: 18104

Ion	Ratio	Lower	Upper
142	100		
141	79.7	68.2	102.2
115	38.7	33.6	50.4

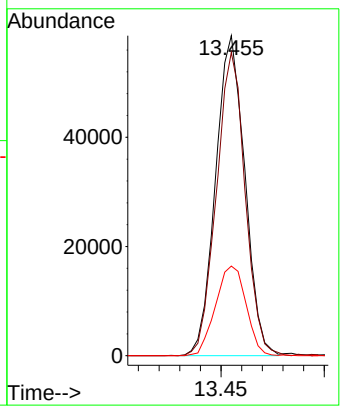




#81
1,2,4-Trichlorobenzene
Concen: 2.023 ppbv
RT: 13.455 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:180 Resp: 5779

Ion	Ratio	Lower	Upper
180	100		
182	93.1	75.8	113.6
184	29.2	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	161096	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.978	114	423363	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	369917	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	287450	9.420	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	17457	0.629	ppbv		95
3) Chlorodifluoromethane	1.479	51	25229	0.823	ppbv		98
4) Chloromethane	1.538	50	6417	0.595	ppbv	#	75
5) Vinyl Chloride	1.586	62	5567	0.432	ppbv		96
6) Bromomethane	1.674	94	2966	0.594	ppbv		100
7) Chloroethane	1.709	64	2542	0.605	ppbv		96
8) Dichlorotetrafluoroethane	1.560	85	14655	0.601	ppbv		90
9) Propene	1.486	41	10156	0.768	ppbv		96
10) Heptane	4.998	43	31354m	0.854	ppbv		
11) Trichlorofluoromethane	1.884	101	18079	0.648	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.149	101	14527	0.667	ppbv		92
13) Ethanol	1.725	45	915m	0.614	ppbv		
14) Bromoethene	1.787	108	4905	0.604	ppbv	#	95
15) Acetone	1.845	43	15468	0.582	ppbv		98
16) 1,3-Butadiene	1.615	39	7010	0.556	ppbv		99
17) tert-Butyl alcohol	2.052	59	19092	0.580	ppbv		97
18) 1,1-Dichloroethene	2.043	96	7042	0.677	ppbv		94
19) Isopropyl Alcohol	1.894	45	9191	0.616	ppbv	#	32
20) Methylene Chloride	2.068	84	6026	0.602	ppbv		95
21) Allyl Chloride	2.104	41	11550	0.600	ppbv		95
22) trans-1,2-Dichloroethene	2.347	96	8145m	0.722	ppbv		
23) Vinyl Acetate	2.473	43	9893	0.687	ppbv	#	91
24) 1,1-Dichloroethane	2.418	63	13783	0.601	ppbv		98
25) Ethyl Acetate	2.852	43	59183	0.811	ppbv		99
26) Hexane	2.836	57	23549	0.804	ppbv		96
27) Carbon Disulfide	2.159	76	15659	0.568	ppbv	#	46
28) Methyl tert-Butyl Ether	2.454	73	13593	0.759	ppbv		95
29) Chloroform	2.861	83	32925	0.776	ppbv		94
30) Cyclohexane	3.874	84	19953	0.840	ppbv		97
31) cis-1,2-Dichloroethene	2.732	61	22565	0.780	ppbv		97
32) 1,1,1-Trichloroethane	3.386	97	30870	0.656	ppbv		96
34) 2-Butanone	2.570	43	33820	0.929	ppbv		99
35) Carbon Tetrachloride	3.777	117	30618	0.745	ppbv		90
36) Benzene	3.674	78	45892	0.895	ppbv		96
37) 1,2-Dichloroethane	3.234	62	25585	0.876	ppbv		99
38) Trichloroethene	4.570	130	18921	0.908	ppbv		91
39) 1,2-Dichloropropane	4.334	63	17557	0.934	ppbv		94
40) 1,4-Dioxane	4.619	88	8319m	0.850	ppbv		
41) Tetrahydrofuran	3.075	42	20823	1.000	ppbv		96
42) Bromodichloromethane	4.515	83	33481	0.847	ppbv		97
43) Methyl Methacrylate	4.907	69	17679	0.756	ppbv		99
44) 2,2,4-Trimethylpentane	4.661	57	81921	0.941	ppbv		98
45) t-1,3-Dichloropropene	6.444	75	16578m	0.751	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	22127m	0.790	ppbv		
47) 1,1,2-Trichloroethane	6.616	97	18160m	0.918	ppbv		
48) Dibromochloromethane	7.412	129	28239	0.852	ppbv		97
49) Bromoform	9.500	173	23310	0.858	ppbv		94
50) 4-Methyl-2-Pentanone	5.791	43	41249m	0.737	ppbv		
51) 2-Hexanone	7.470	43	24117	0.527	ppbv	#	97
52) Tetrachloroethene	8.241	164	16217	0.907	ppbv		89
53) Toluene	6.959	91	51231	0.838	ppbv		99
54) 1,2-Dibromoethane	7.674	107	23427	0.860	ppbv		94
56) 1,1,1,2-Tetrachloroethane	8.943	131	22060	0.833	ppbv		97
57) Chlorobenzene	8.937	112	41173	0.946	ppbv		96
58) Ethyl Benzene	9.370	91	70507	0.871	ppbv		97
59) m/p-Xylene	9.568	91	114691m	1.799	ppbv		
60) o-Xylene	9.979	91	57322	0.889	ppbv		99
61) Styrene	9.885	104	26596	0.865	ppbv		98
62) Isopropylbenzene	10.555	105	86533	0.894	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.979	83	38520	0.926	ppbv		98
64) n-propylbenzene	11.002	120	22456	0.944	ppbv		94
65) tert-Butylbenzene	11.545	119	83284	0.987	ppbv		99
66) Benzyl Chloride	11.626	91	5880m	0.695	ppbv		
67) sec-Butylbenzene	11.782	105	119435	1.007	ppbv		99
69) p-Isopropyltoluene	11.940	119	93710	0.966	ppbv		99
70) n-Butylbenzene	12.293	91	94969	0.993	ppbv		98
71) 2-Chlorotoluene	10.914	91	67655	0.928	ppbv		98
72) 4-Ethyltoluene	11.137	105	71906	0.952	ppbv		99
73) 1,3,5-Trimethylbenzene	11.215	105	64087	0.983	ppbv		96
74) 1,2,4-Trimethylbenzene	11.549	105	73323	1.048	ppbv		100
75) 1,3-Dichlorobenzene	11.620	146	41063	1.091	ppbv		99
76) 1,4-Dichlorobenzene	11.685	146	39235	1.068	ppbv		99
77) 1,2-Dichlorobenzene	11.960	146	40574	1.127	ppbv		98
78) Hexachloro-1,3-Butadiene	13.895	225	30764	1.033	ppbv		99
79) Naphthalene	13.526	128	45743	0.665	ppbv		98
80) Naphthalene,2-methyl-	14.471	142	5244	0.168	ppbv		94
81) 1,2,4-Trichlorobenzene	13.452	180	25404	0.908	ppbv		95

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

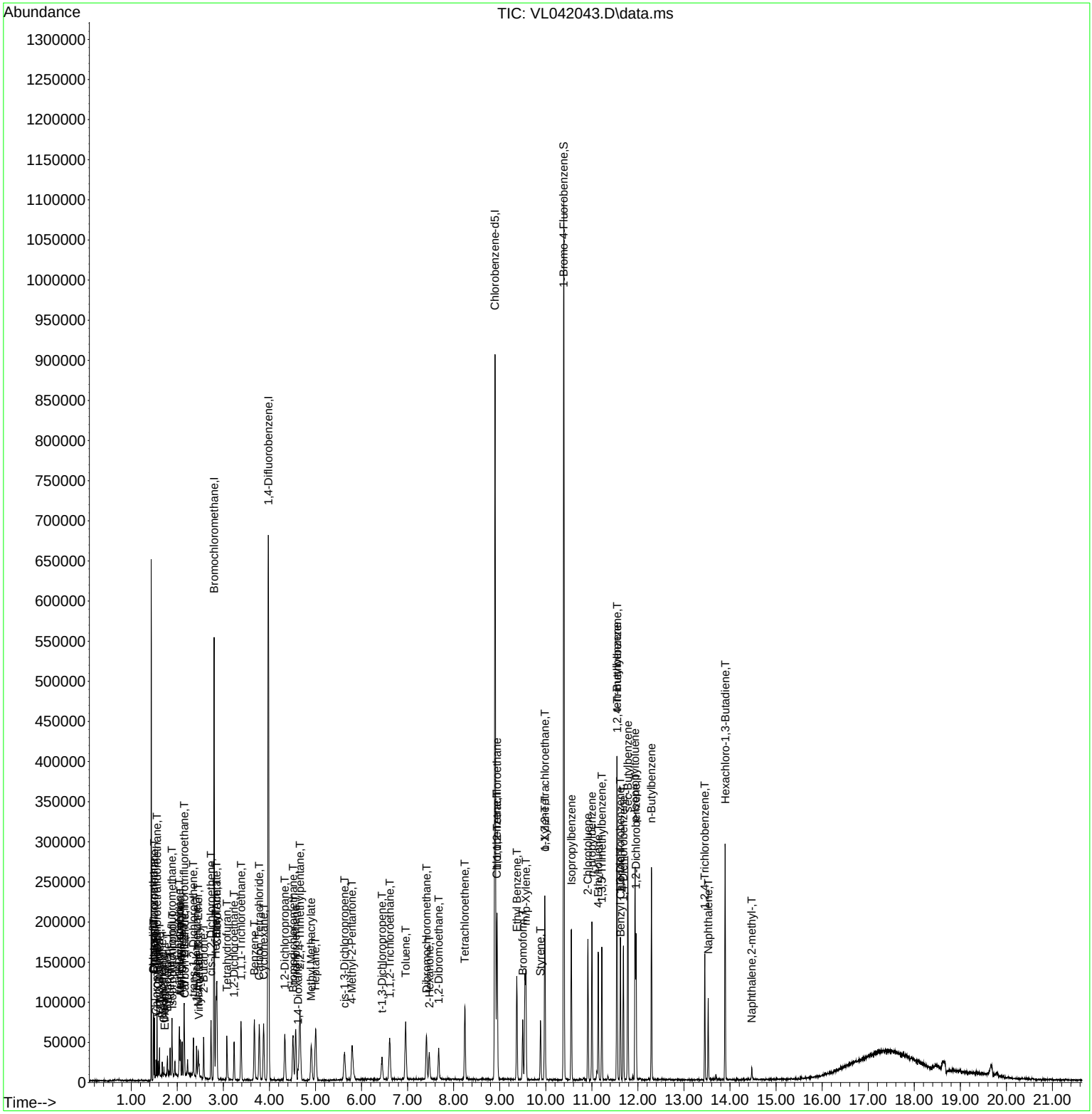
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

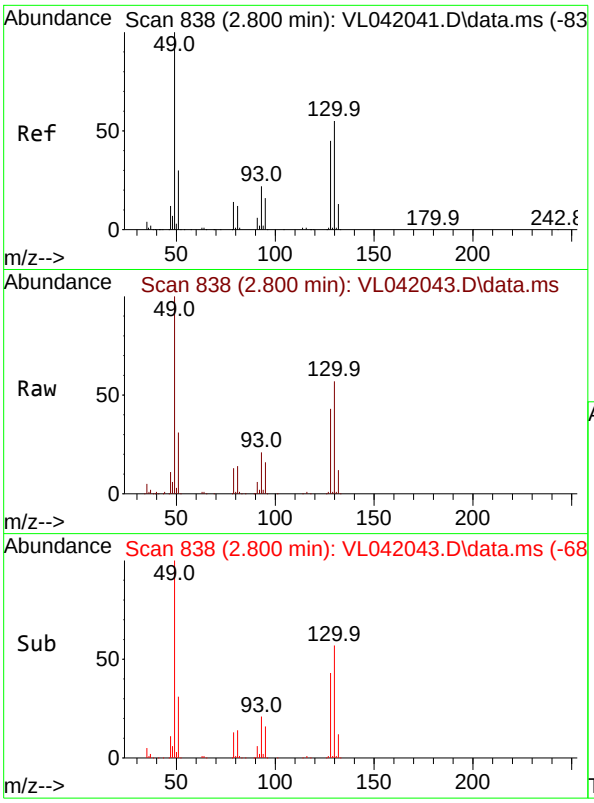
Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

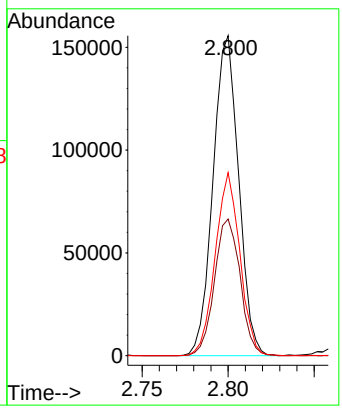




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 49 Resp: 16109

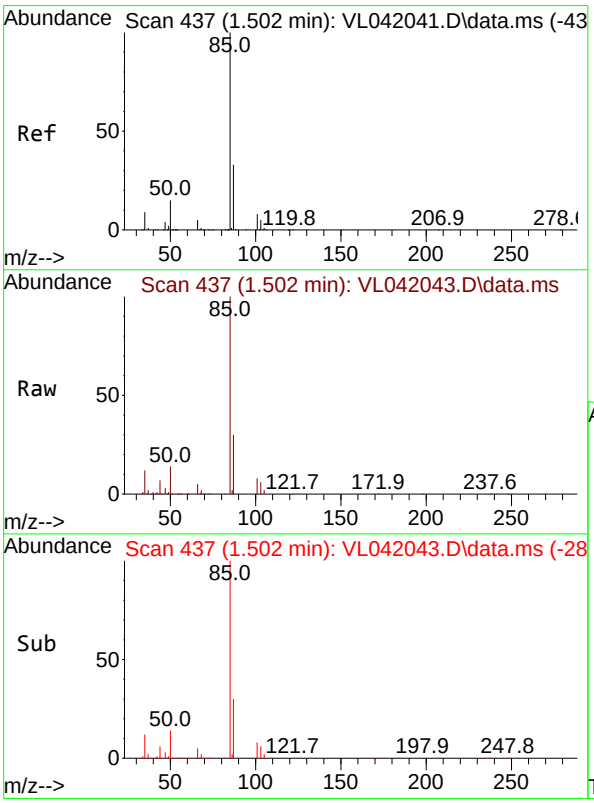
Ion	Ratio	Lower	Upper
49	100		
128	42.9	21.6	64.8
130	55.0	27.8	83.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

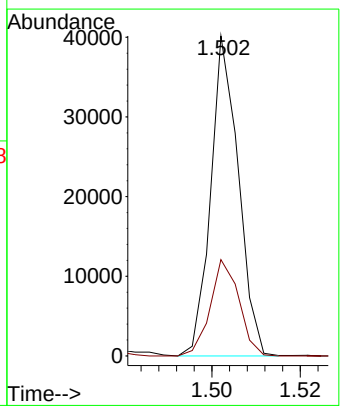
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

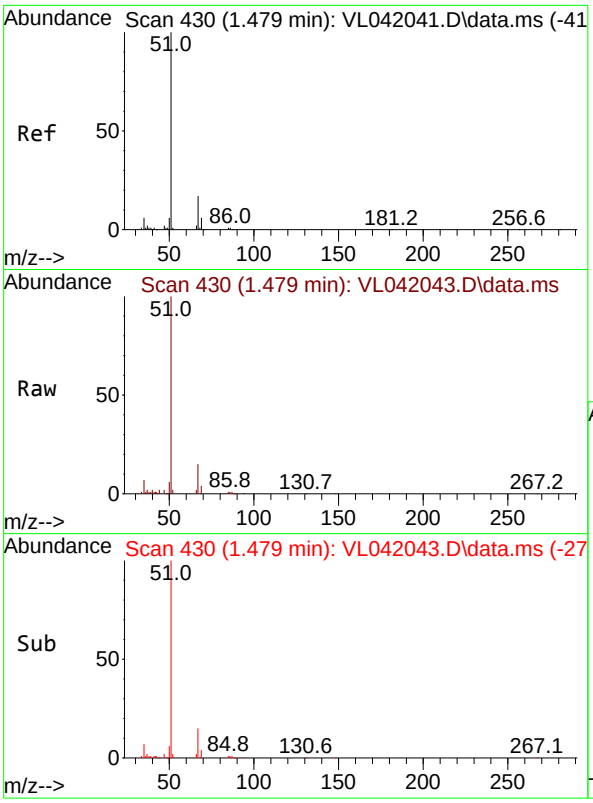


#2
Dichlorodifluoromethane
Concen: 0.629 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 85 Resp: 17457

Ion	Ratio	Lower	Upper
85	100		
87	30.1	26.4	39.6

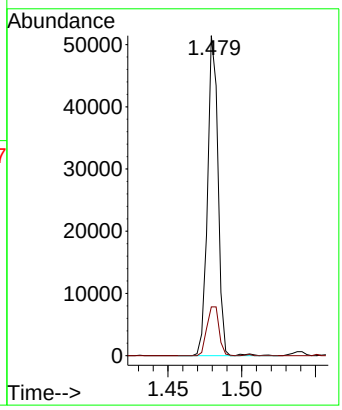




#3
Chlorodifluoromethane
Concen: 0.823 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 51 Resp: 2522

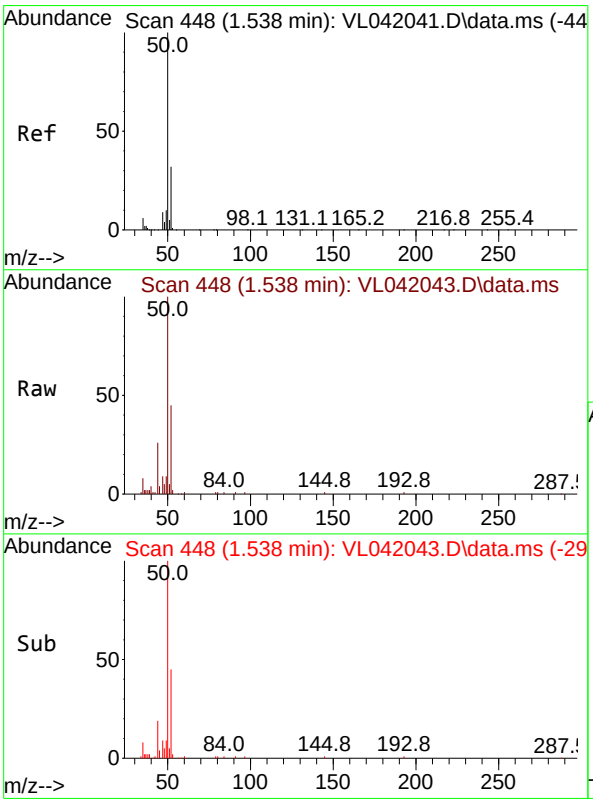
Ion	Ratio	Lower	Upper
51	100		
67	17.9	13.7	20.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

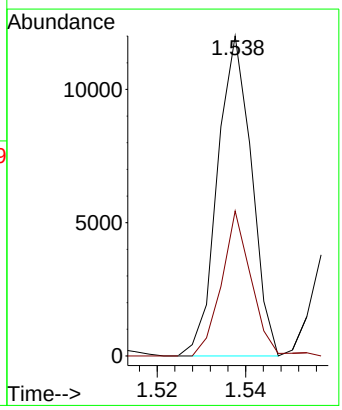
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

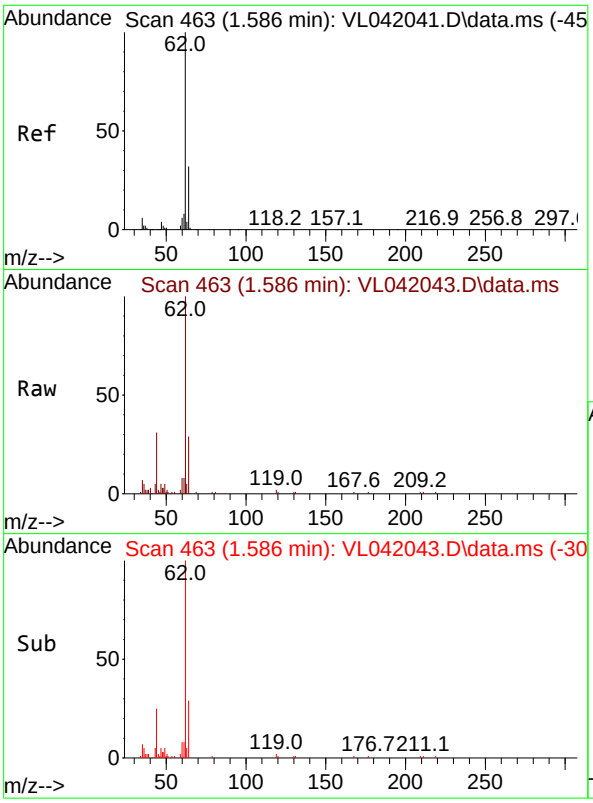


#4
Chloromethane
Concen: 0.595 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 50 Resp: 6417

Ion	Ratio	Lower	Upper
50	100		
52	45.3	25.4	38.0#

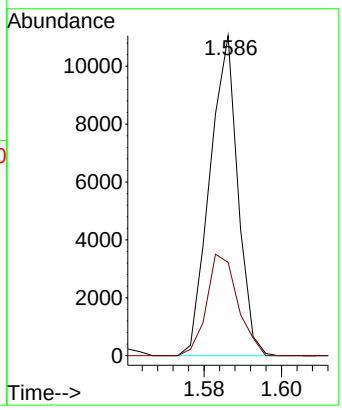




#5
Vinyl Chloride
Concen: 0.432 ppbv
RT: 1.586 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 62 Resp: 556

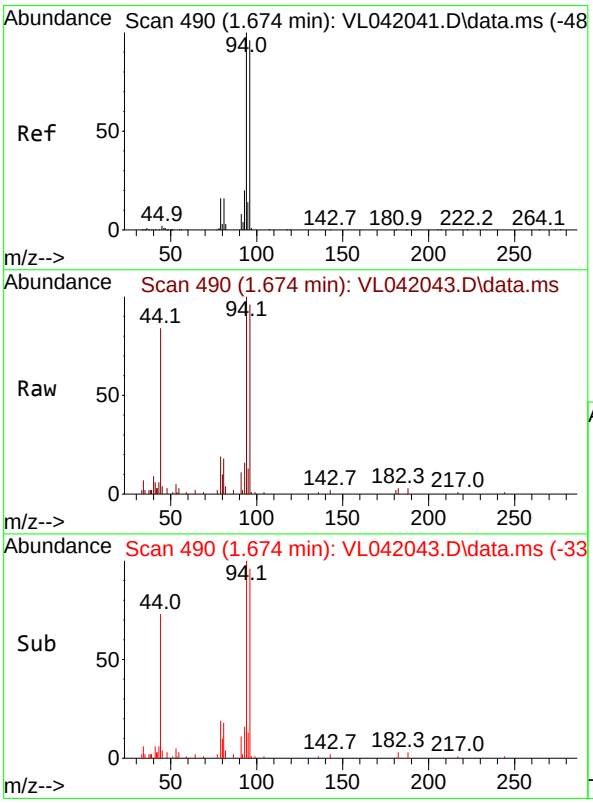
Ion	Ratio	Lower	Upper
62	100		
64	29.2	25.3	37.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

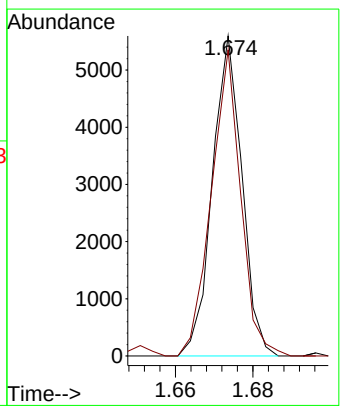
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

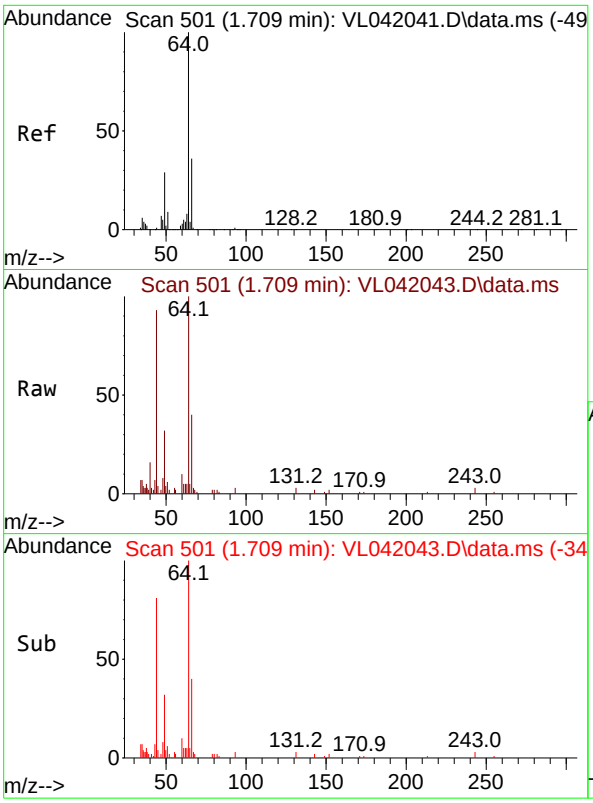


#6
Bromomethane
Concen: 0.594 ppbv
RT: 1.674 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 94 Resp: 2966

Ion	Ratio	Lower	Upper
94	100		
96	95.7	76.5	114.7

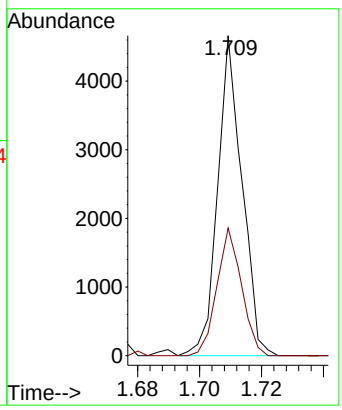




#7
Chloroethane
Concen: 0.605 ppbv
RT: 1.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 64 Resp: 254

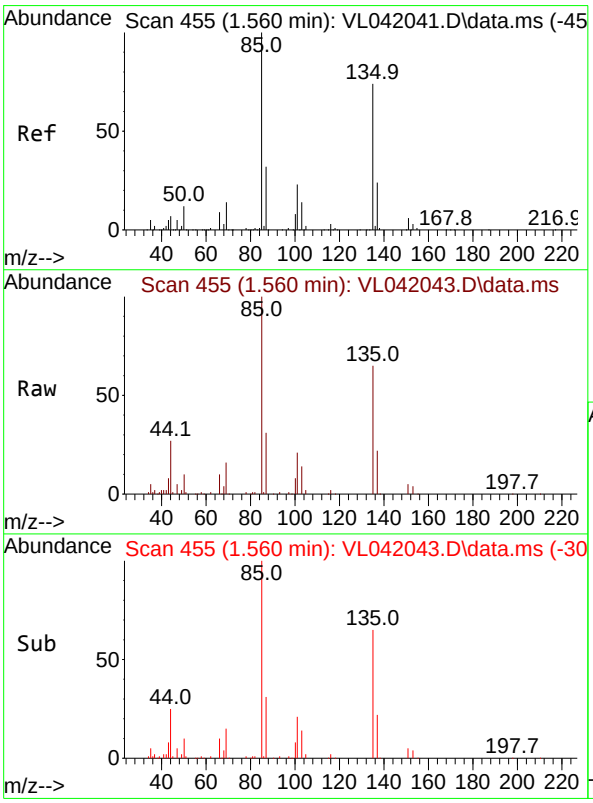
Ion	Ratio	Lower	Upper
64	100		
66	37.9	28.4	42.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

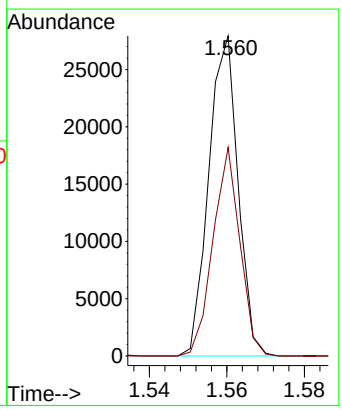
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

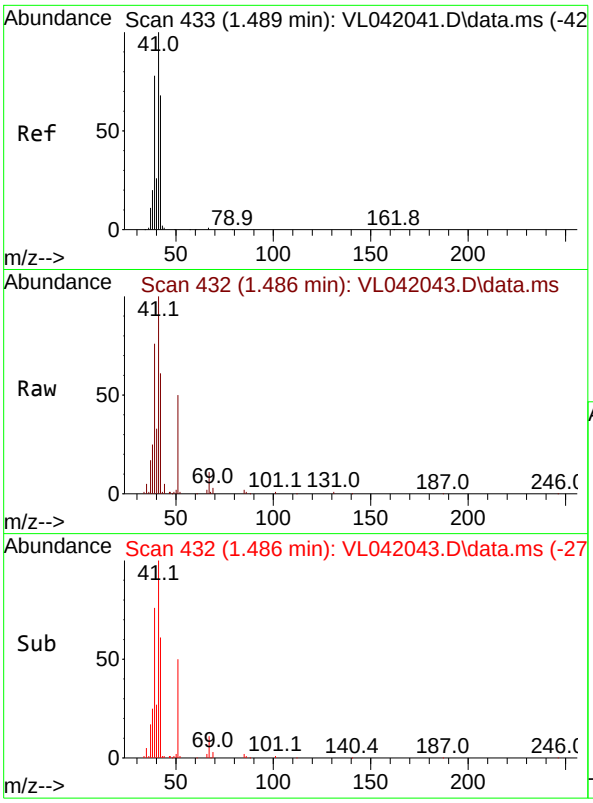


#8
Dichlorotetrafluoroethane
Concen: 0.601 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 85 Resp: 14655

Ion	Ratio	Lower	Upper
85	100		
135	59.9	54.6	81.8

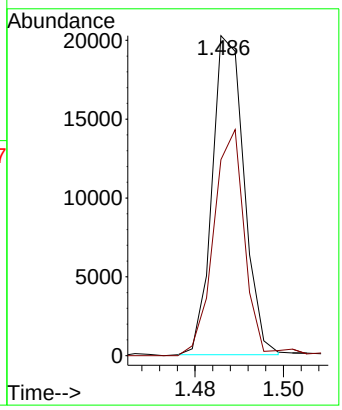




#9
Propene
Concen: 0.768 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 41 Resp: 1015

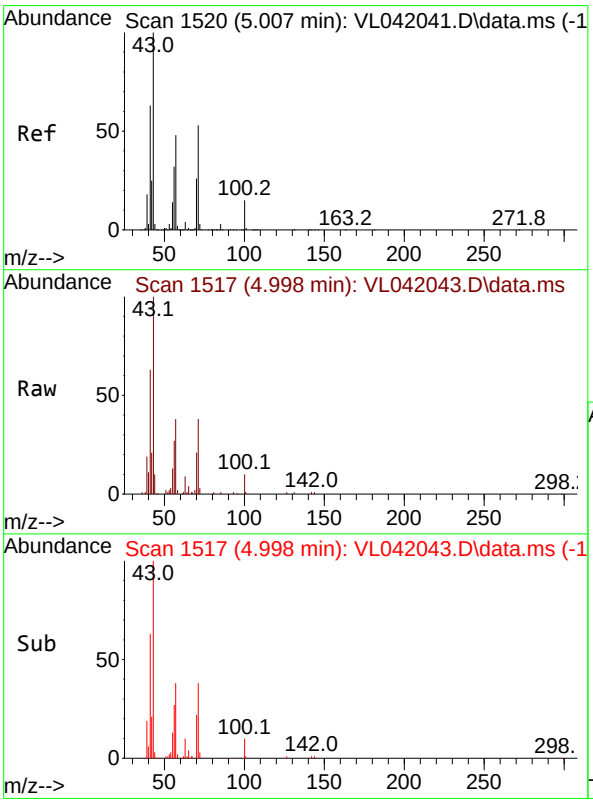
Ion	Ratio	Lower	Upper
41	100		
42	72.6	55.8	83.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

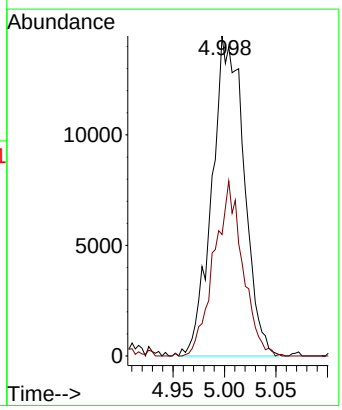
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

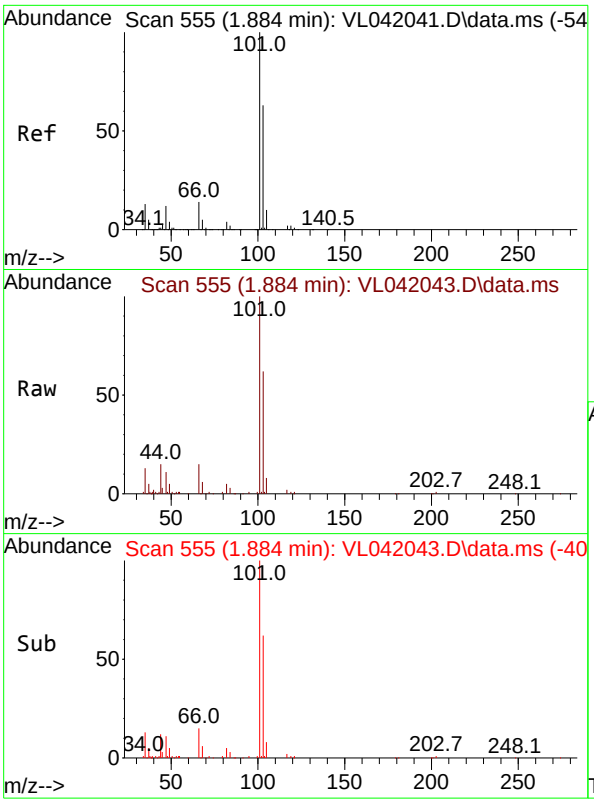


#10
Heptane
Concen: 0.854 ppbv m
RT: 4.998 min Scan# 1517
Delta R.T. -0.010 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 31354

Ion	Ratio	Lower	Upper
43	100		
57	48.7	39.4	59.0





#11
Trichlorofluoromethane
Concen: 0.648 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

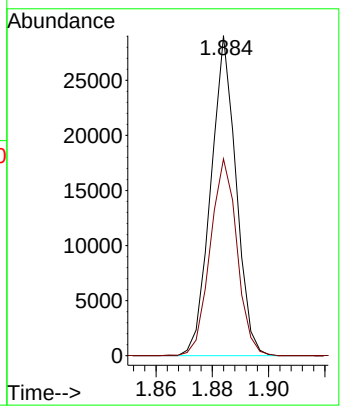
Tgt Ion:101 Resp: 1807

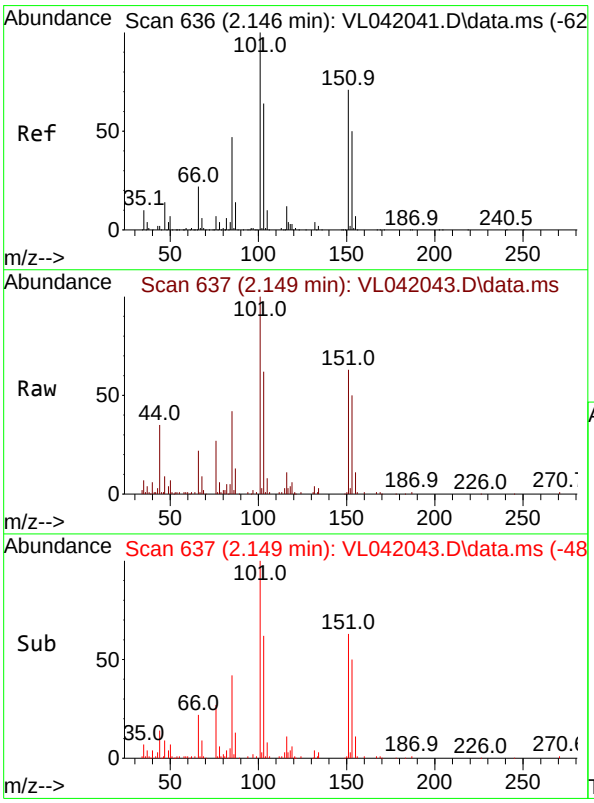
Ion	Ratio	Lower	Upper
101	100		
103	61.5	50.6	75.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

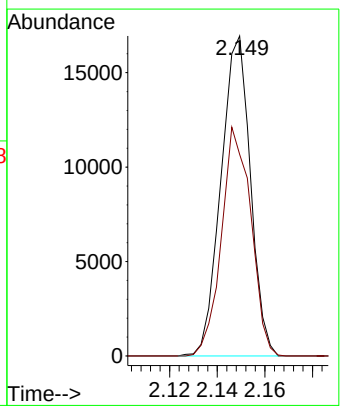


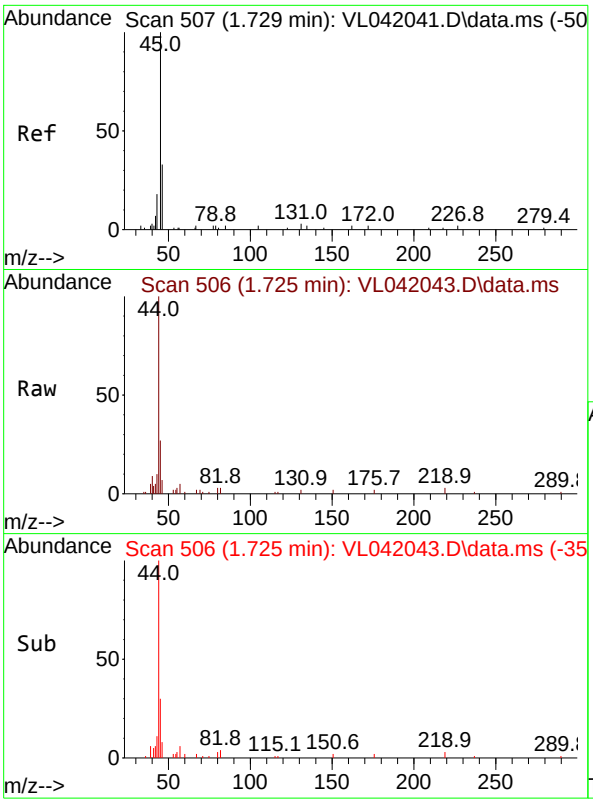


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.667 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:101 Resp: 14527

Ion	Ratio	Lower	Upper
101	100		
151	71.7	62.6	94.0

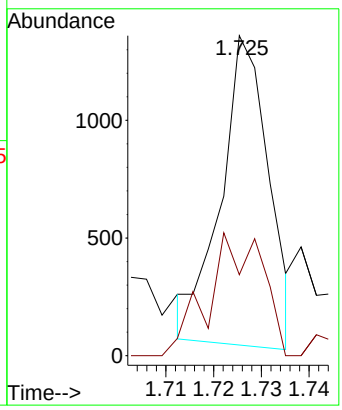




#13
Ethanol
Concen: 0.614 ppbv m
RT: 1.725 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 45 Resp: 91

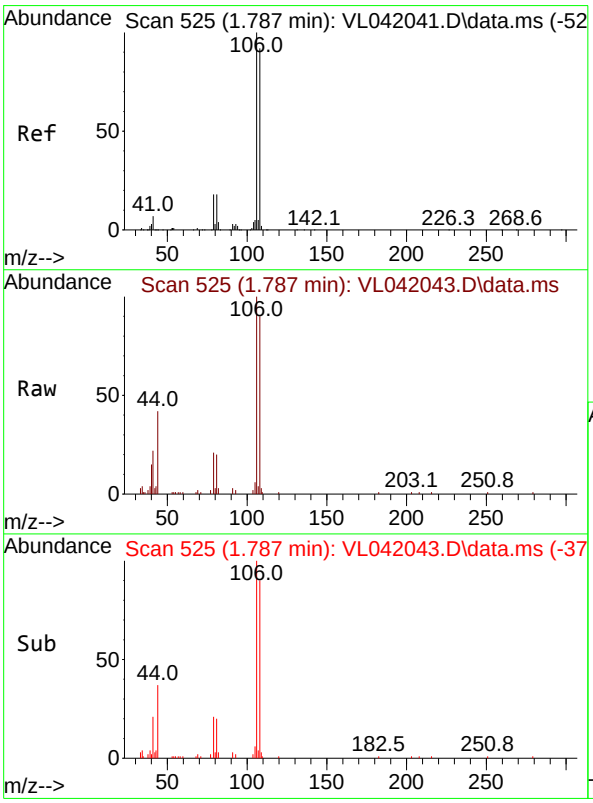
Ion	Ratio	Lower	Upper
45	100		
46	44.9	17.1	68.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

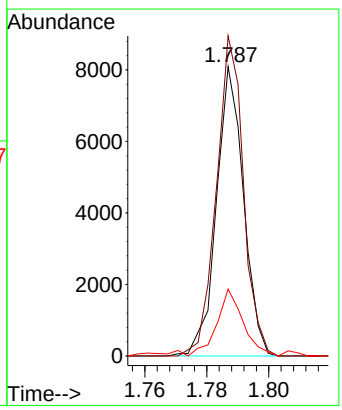
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

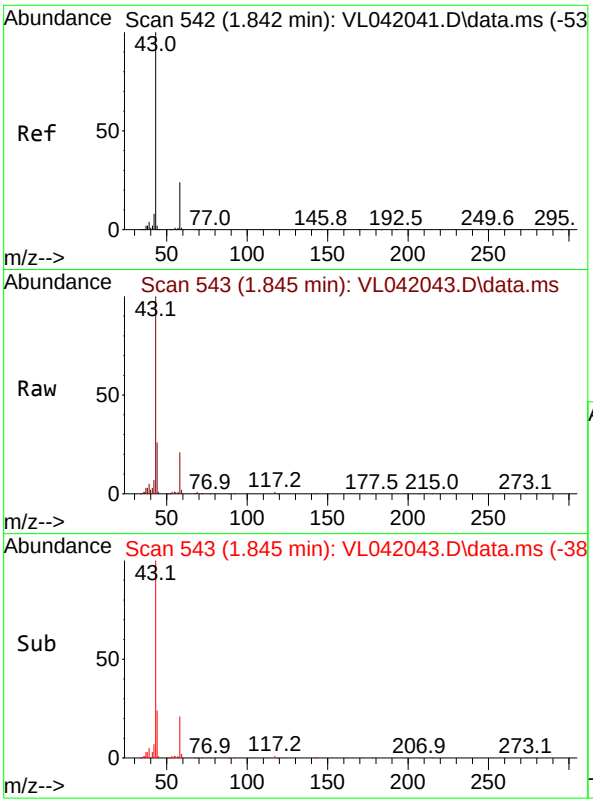


#14
Bromoethene
Concen: 0.604 ppbv
RT: 1.787 min Scan# 525
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:108 Resp: 4905

Ion	Ratio	Lower	Upper
108	100		
106	110.4	85.4	128.0
79	24.9	16.5	24.7#

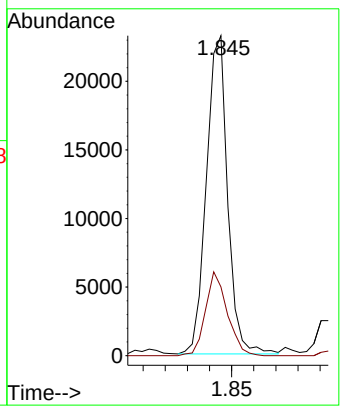




#15
Acetone
Concen: 0.582 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 1546

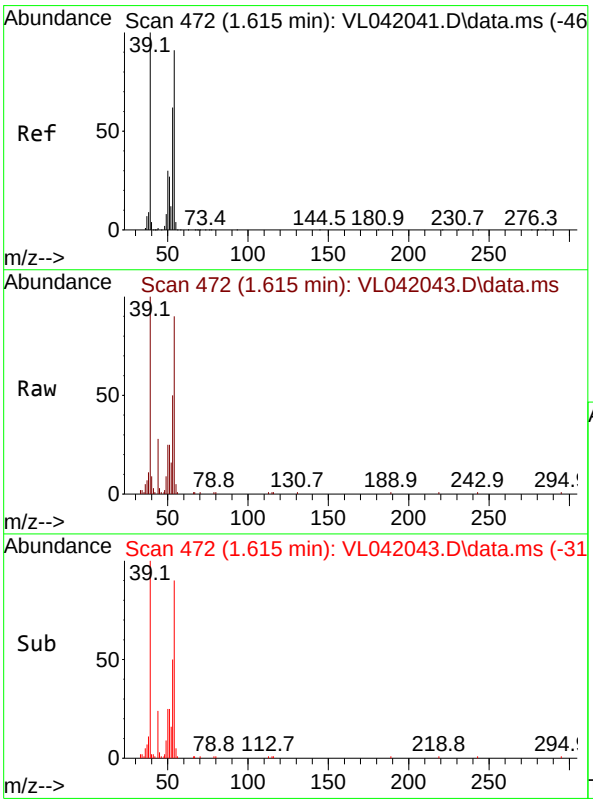
Ion	Ratio	Lower	Upper
43	100		
58	27.1	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

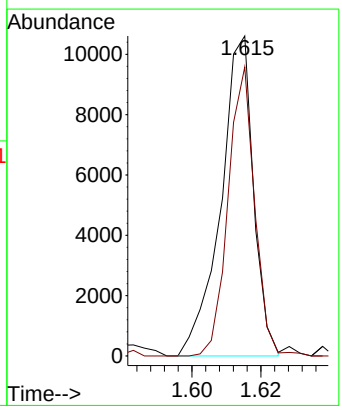
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

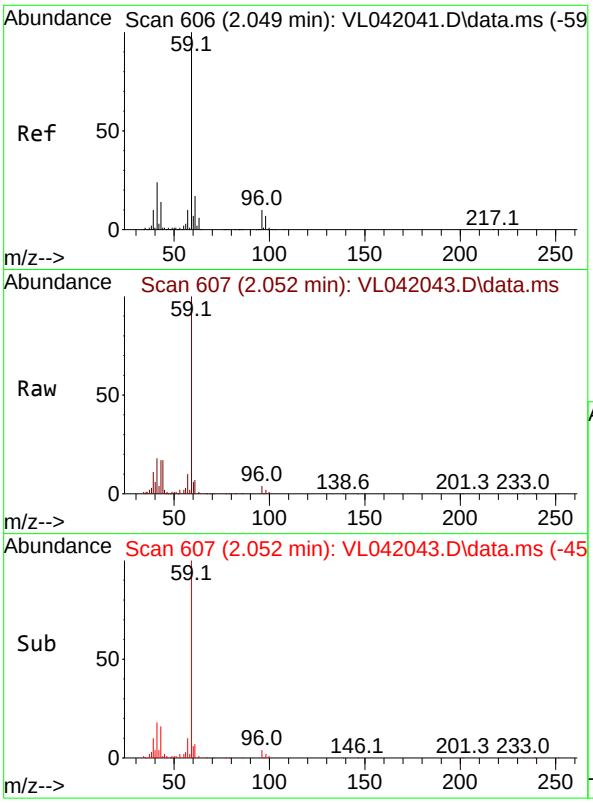


#16
1,3-Butadiene
Concen: 0.556 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 39 Resp: 7010

Ion	Ratio	Lower	Upper
39	100		
54	74.0	59.6	89.4

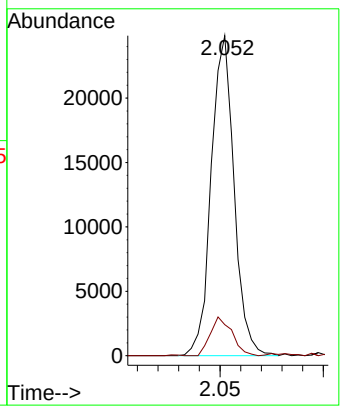




#17
tert-Butyl alcohol
Concen: 0.580 ppbv
RT: 2.052 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 59 Resp: 1909

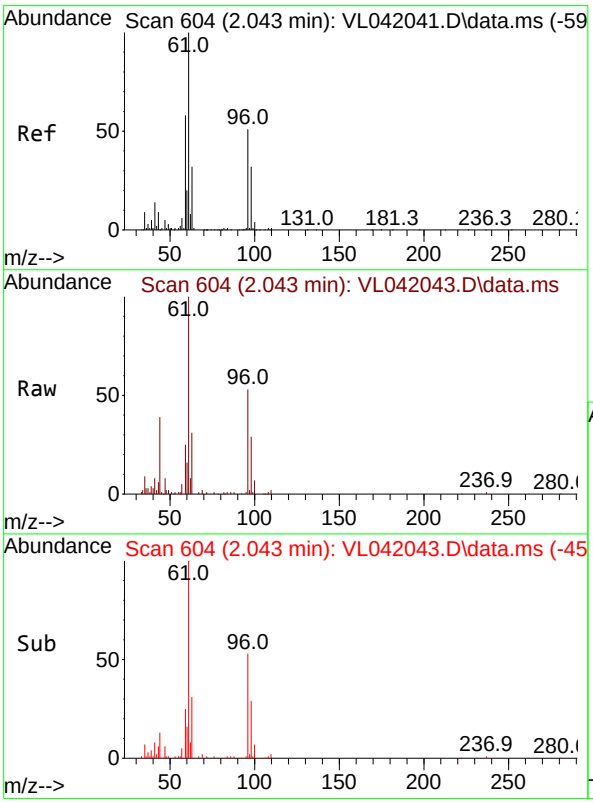
Ion	Ratio	Lower	Upper
59	100		
57	12.6	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

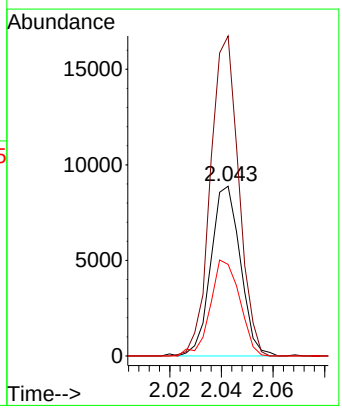
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

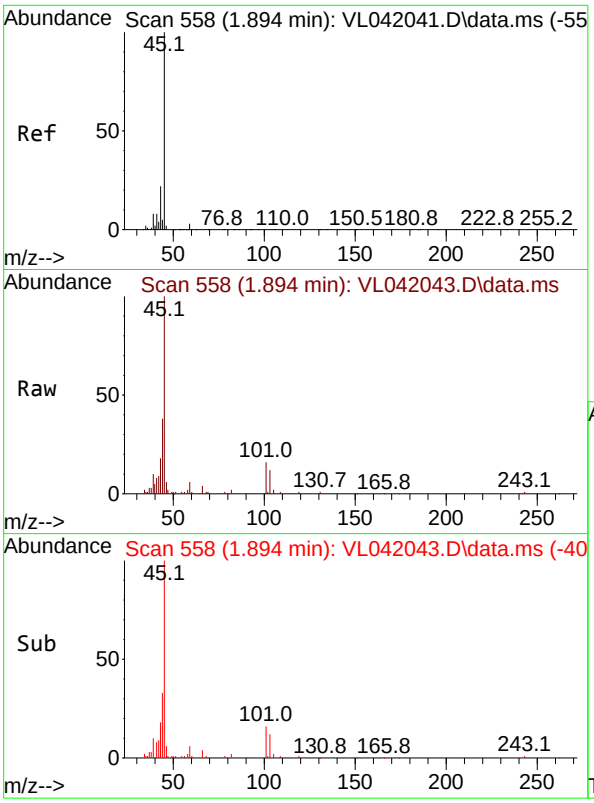


#18
1,1-Dichloroethene
Concen: 0.677 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 96 Resp: 7042

Ion	Ratio	Lower	Upper
96	100		
61	188.5	156.0	234.0
98	53.9	49.4	74.2





#19
Isopropyl Alcohol
Concen: 0.616 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

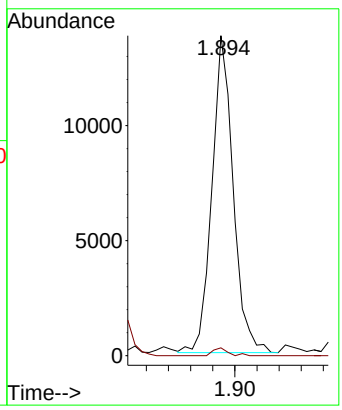
Tgt Ion: 45 Resp: 919

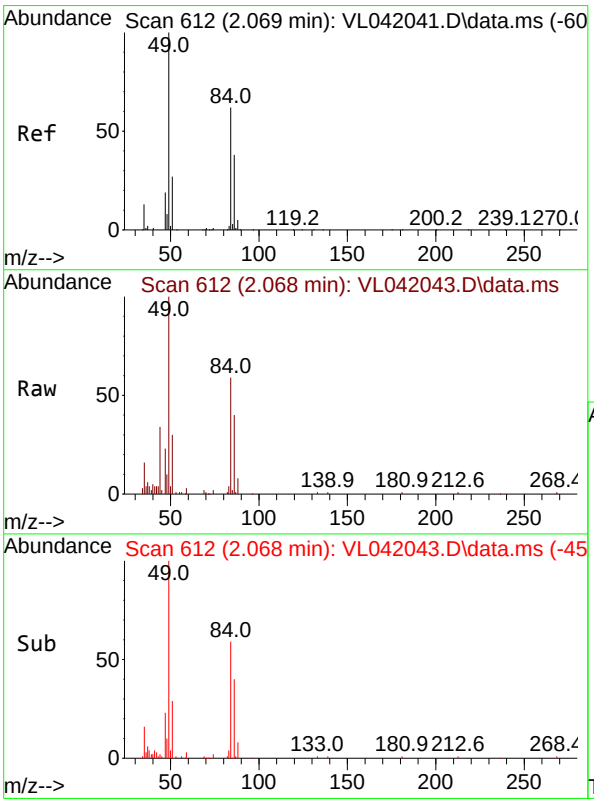
Ion	Ratio	Lower	Upper
45	100		
58	0.0	35.3	52.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

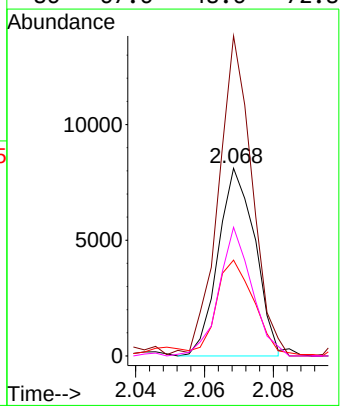


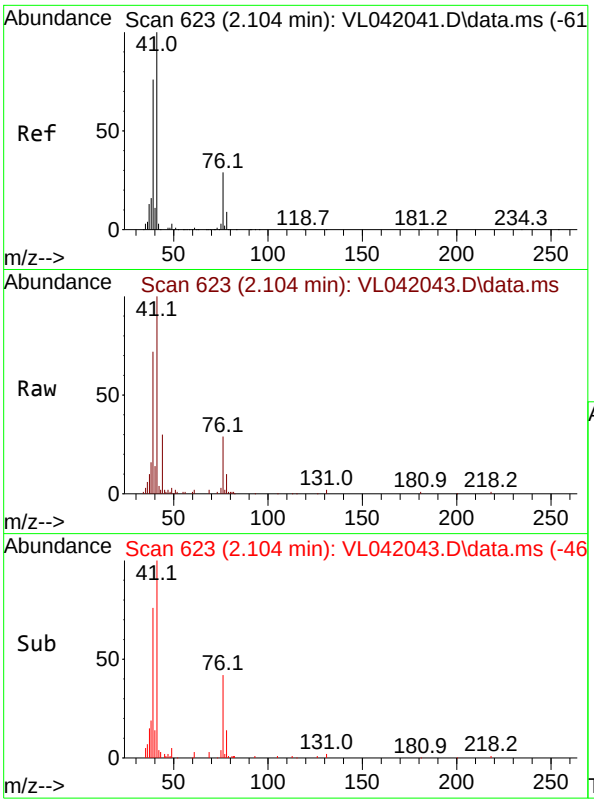


#20
Methylene Chloride
Concen: 0.602 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 84 Resp: 6026

Ion	Ratio	Lower	Upper
84	100		
49	167.5	130.0	195.0
51	48.3	37.4	56.0
86	67.6	48.6	72.8

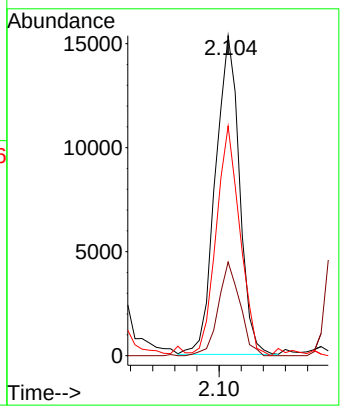




#21
Allyl Chloride
Concen: 0.600 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 41 Resp: 1155

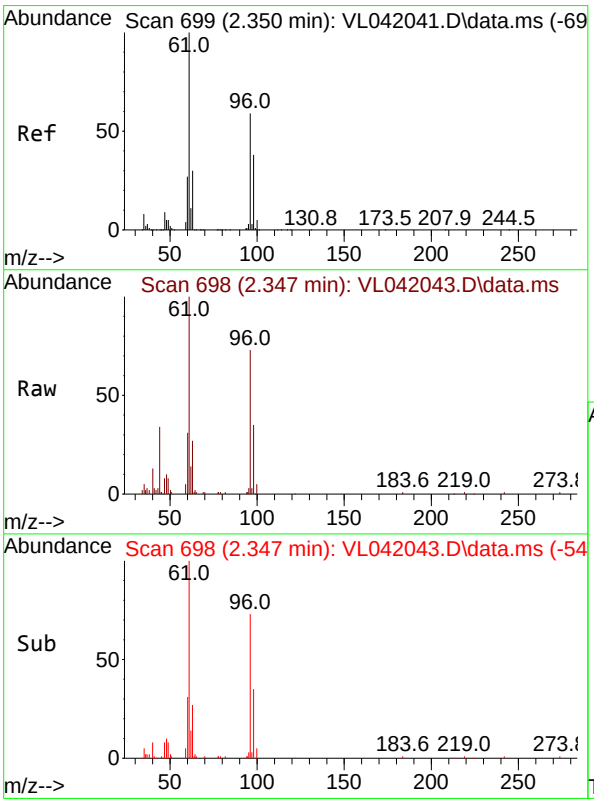
Ion	Ratio	Lower	Upper
41	100		
76	26.6	23.8	35.6
39	75.1	63.8	95.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

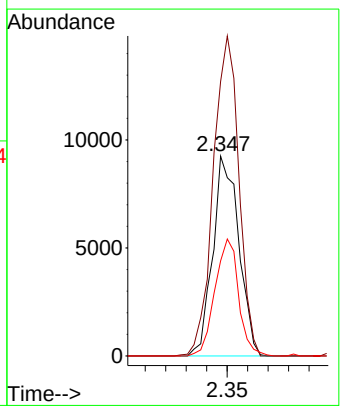
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

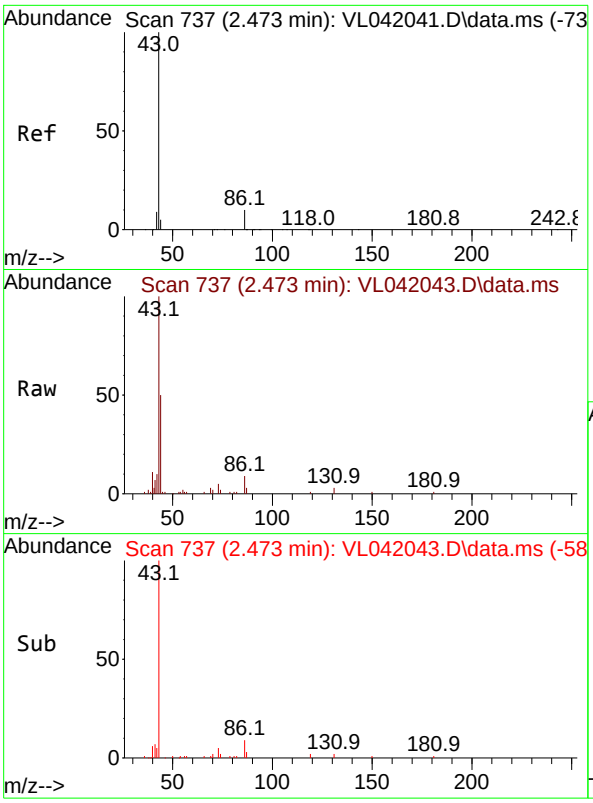


#22
trans-1,2-Dichloroethene
Concen: 0.722 ppbv m
RT: 2.347 min Scan# 698
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 96 Resp: 8145

Ion	Ratio	Lower	Upper
96	100		
61	137.3	136.6	205.0
98	47.5	51.8	77.6#

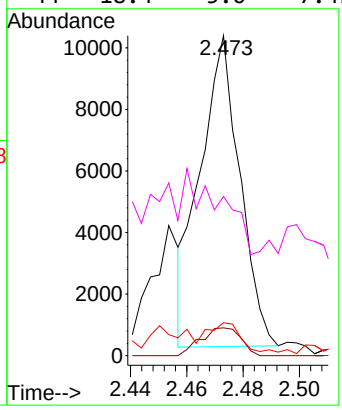




#23
Vinyl Acetate
Concen: 0.687 ppbv
RT: 2.473 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 989

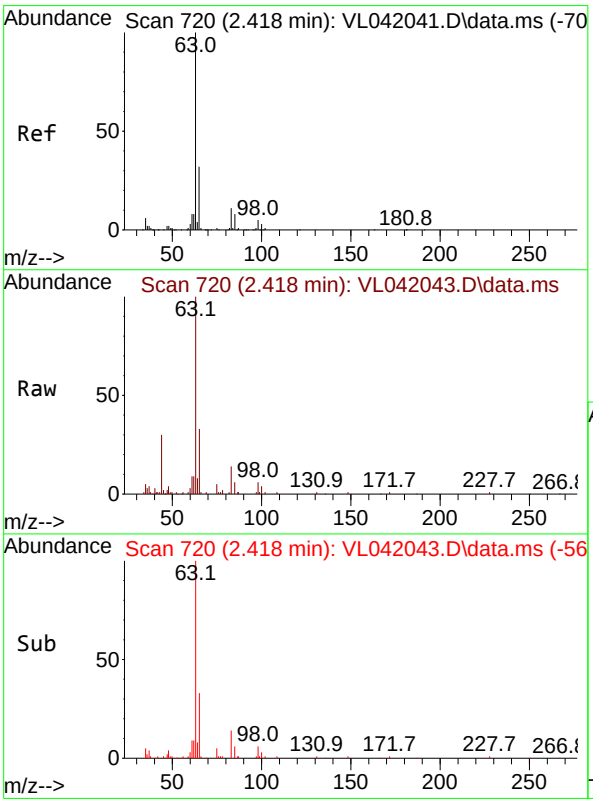
Ion	Ratio	Lower	Upper
43	100		
86	9.0	7.0	10.4
42	9.5	7.6	11.4
44	18.4	5.0	7.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

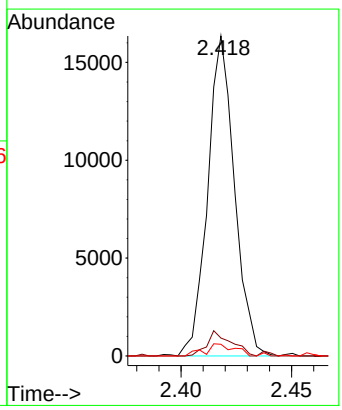
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

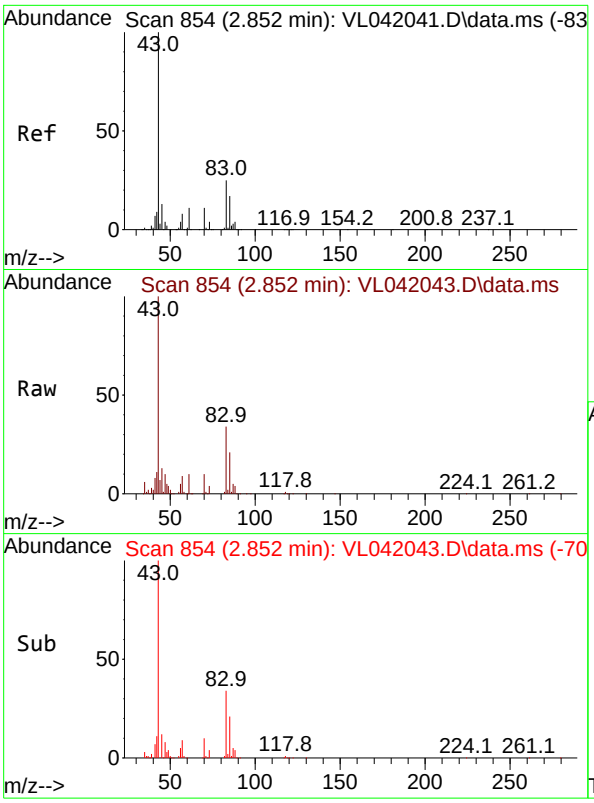


#24
1,1-Dichloroethane
Concen: 0.601 ppbv
RT: 2.418 min Scan# 720
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 63 Resp: 13783

Ion	Ratio	Lower	Upper
63	100		
98	5.6	2.4	7.2
100	3.6	1.7	5.0

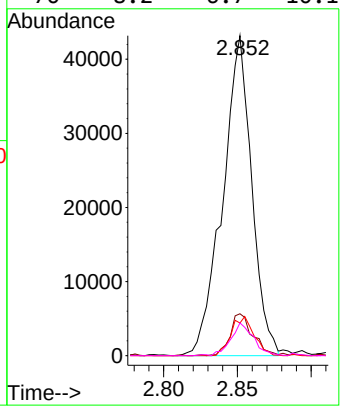




#25
Ethyl Acetate
Concen: 0.811 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 5918

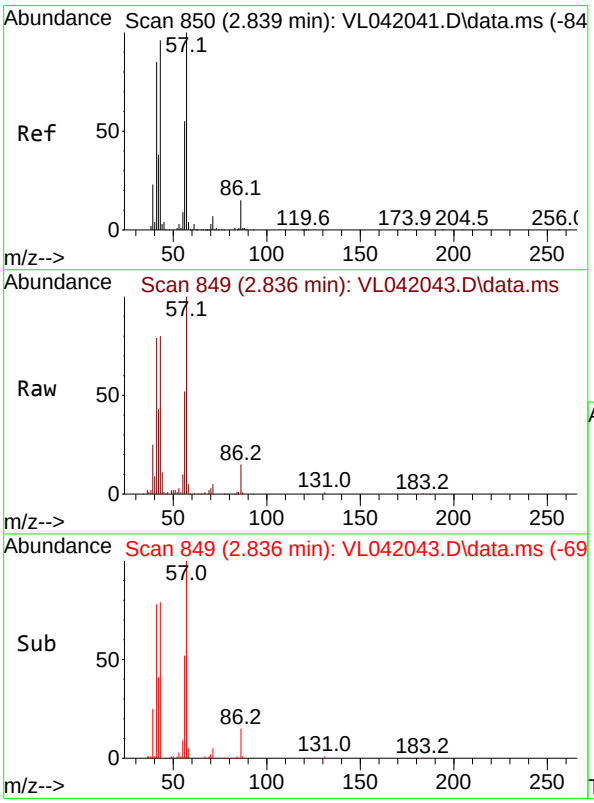
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.1	12.1
61	9.7	7.2	10.8
70	8.2	6.7	10.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

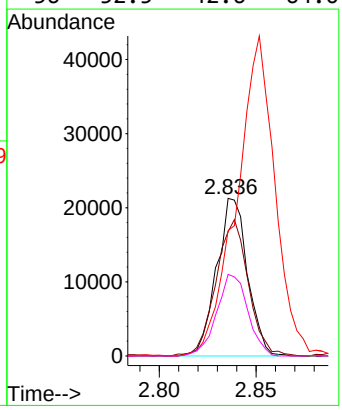
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

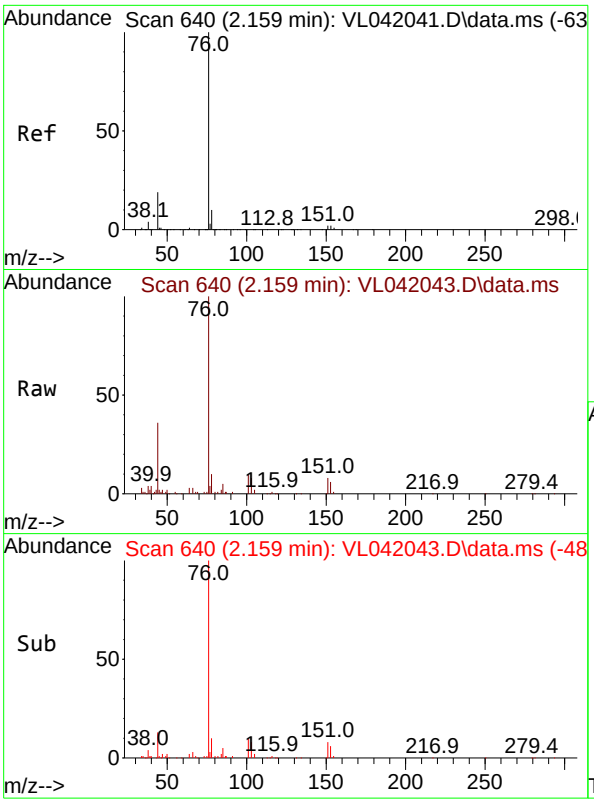


#26
Hexane
Concen: 0.804 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 57 Resp: 23549

Ion	Ratio	Lower	Upper
57	100		
41	92.1	70.6	106.0
43	256.7	199.4	299.0
56	52.5	42.6	64.0





#27
Carbon Disulfide
Concen: 0.568 ppbv
RT: 2.159 min Scan# 64
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

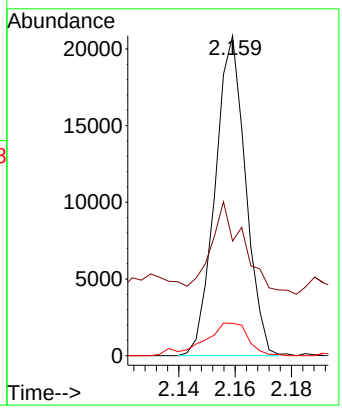
Tgt Ion: 76 Resp: 1565

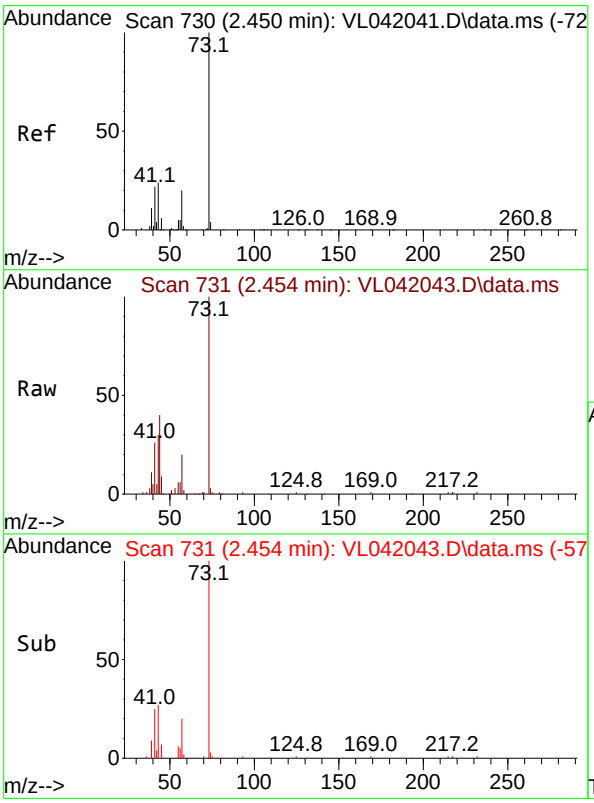
Ion	Ratio	Lower	Upper
76	100		
44	57.5	16.2	24.2#
78	14.7	9.4	14.0#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

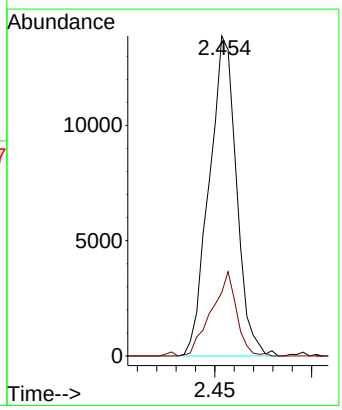


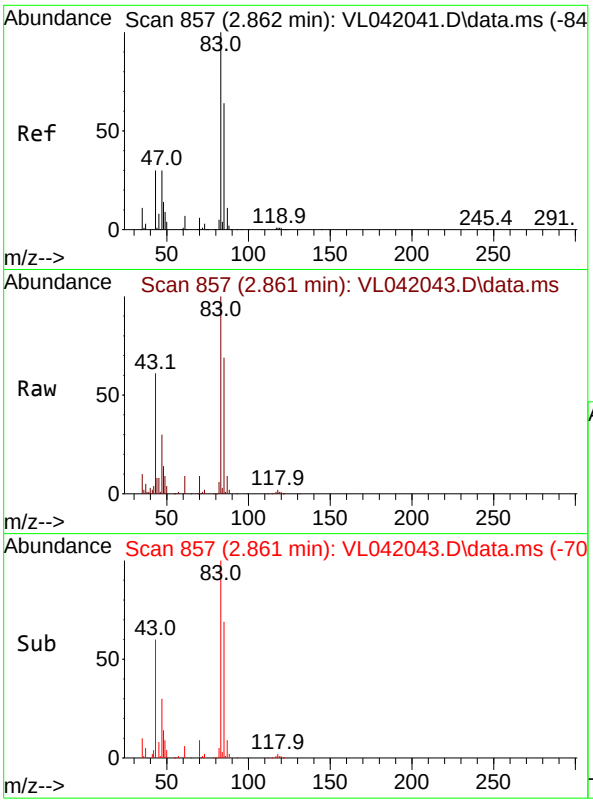


#28
Methyl tert-Butyl Ether
Concen: 0.759 ppbv
RT: 2.454 min Scan# 731
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 73 Resp: 13593

Ion	Ratio	Lower	Upper
73	100		
57	24.5	17.7	26.5

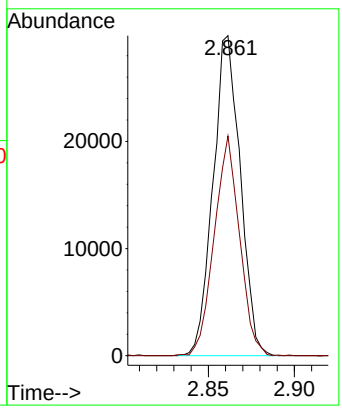




#29
Chloroform
Concen: 0.776 ppbv
RT: 2.861 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 83 Resp: 3292

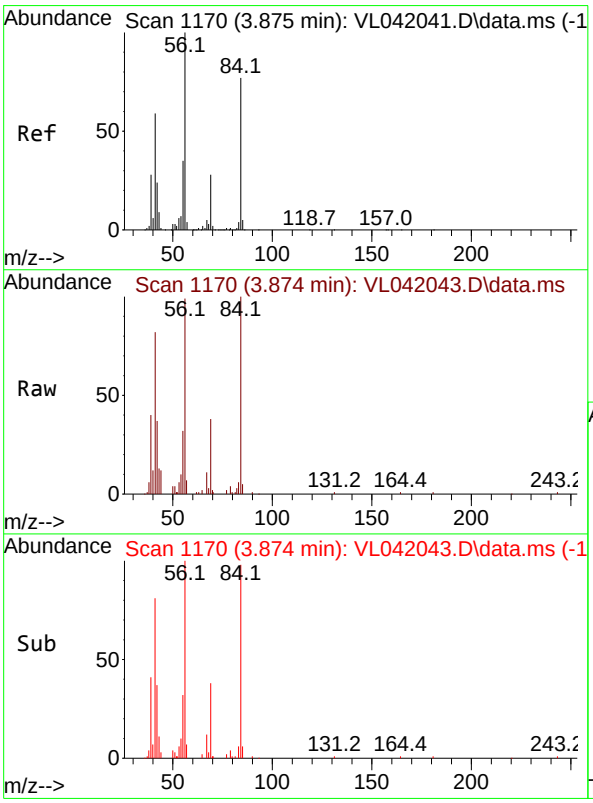
Ion	Ratio	Lower	Upper
83	100		
85	68.5	51.2	76.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

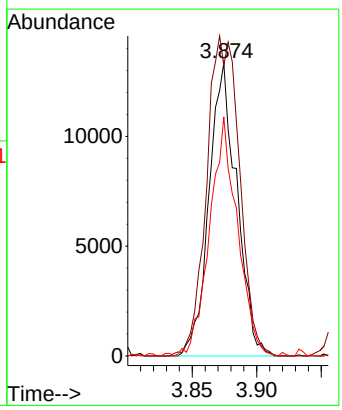
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

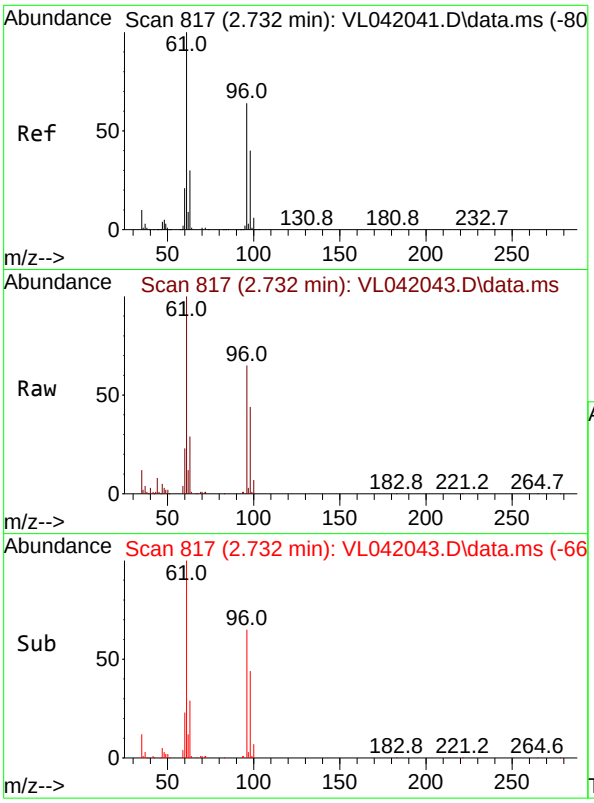


#30
Cyclohexane
Concen: 0.840 ppbv
RT: 3.874 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 84 Resp: 19953

Ion	Ratio	Lower	Upper
84	100		
56	129.3	101.5	152.3
41	82.1	62.6	93.8

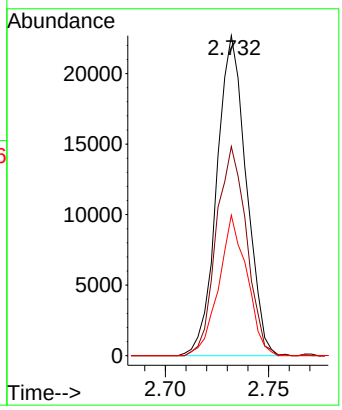




#31
cis-1,2-Dichloroethene
Concen: 0.780 ppbv
RT: 2.732 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 61 Resp: 2256

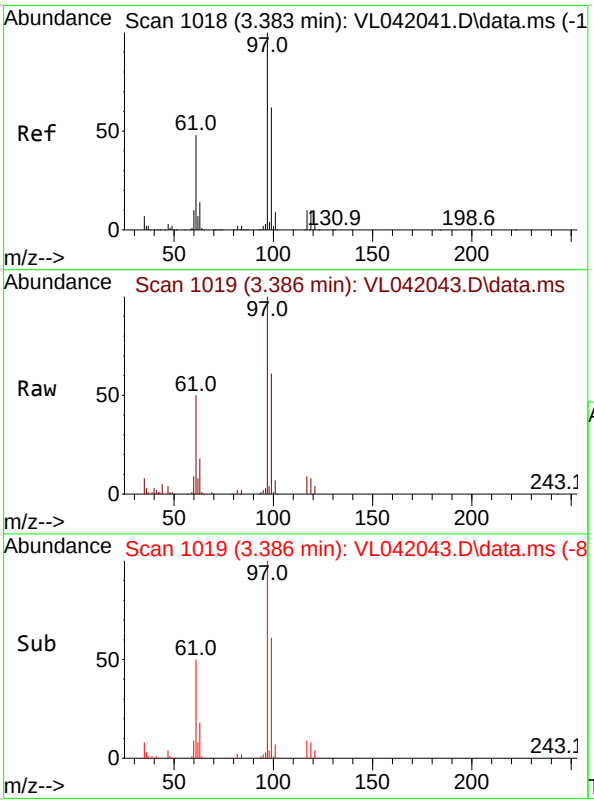
Ion	Ratio	Lower	Upper
61	100		
96	65.3	51.5	77.3
98	43.9	32.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

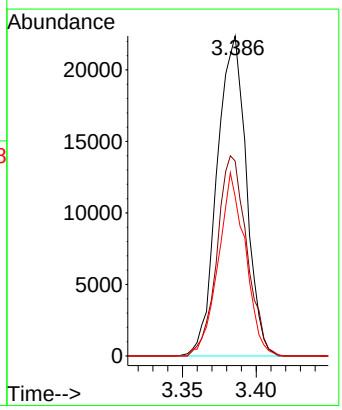
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

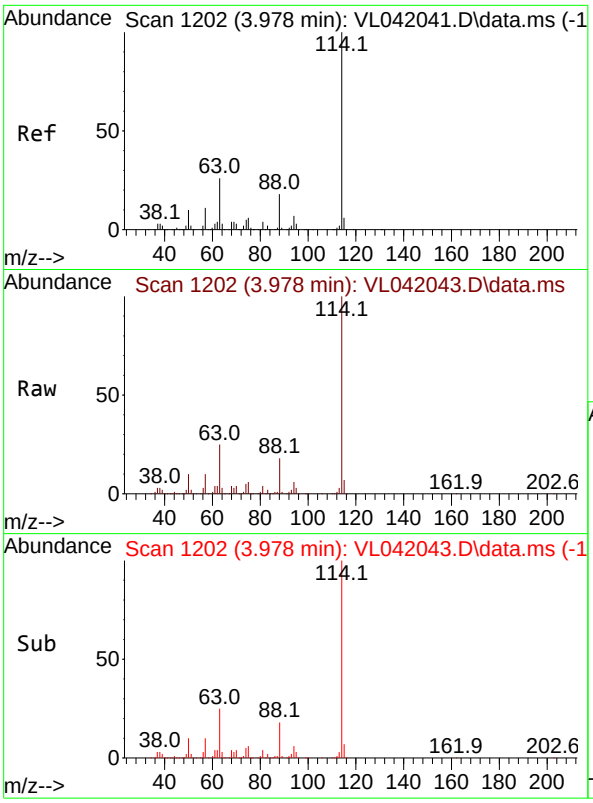


#32
1,1,1-Trichloroethane
Concen: 0.656 ppbv
RT: 3.386 min Scan# 1019
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 97 Resp: 30870

Ion	Ratio	Lower	Upper
97	100		
99	63.6	49.8	74.6
61	53.1	38.9	58.3

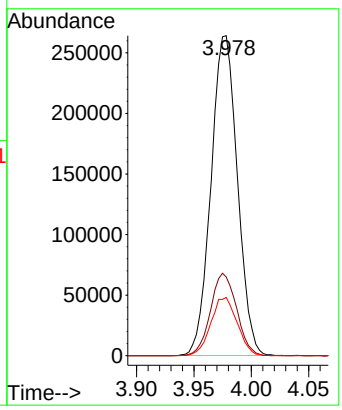




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:114 Resp: 42336

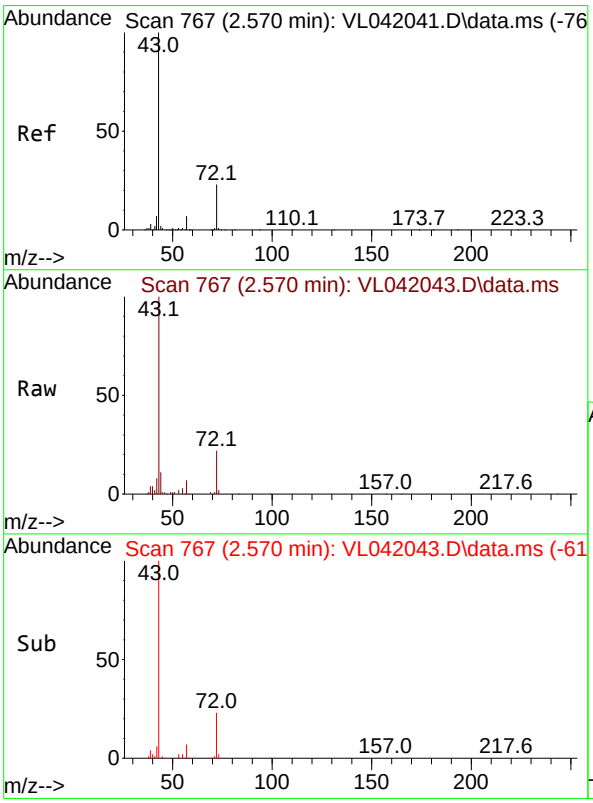
Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.1	30.1
88	18.2	14.3	21.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

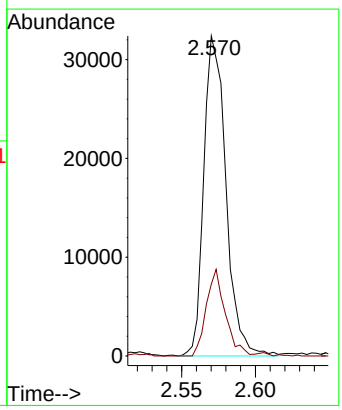
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

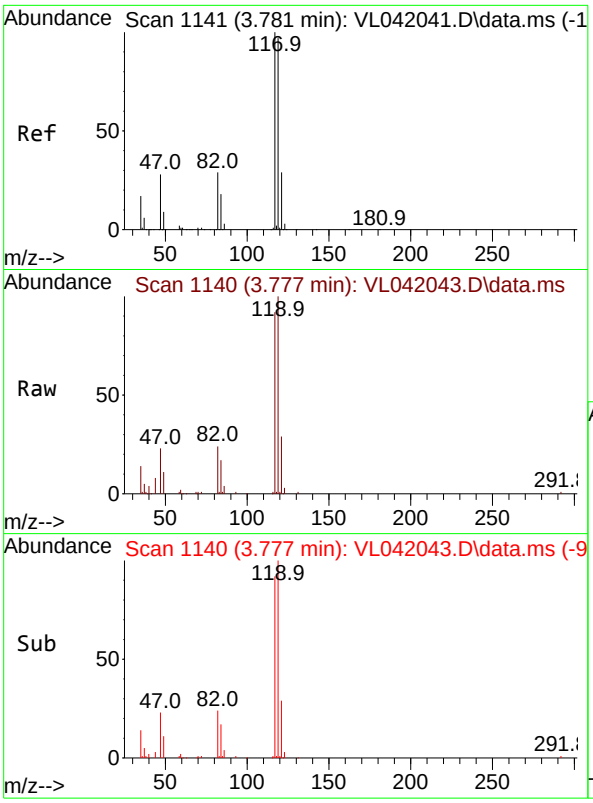


#34
2-Butanone
Concen: 0.929 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 33820

Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.5	27.7

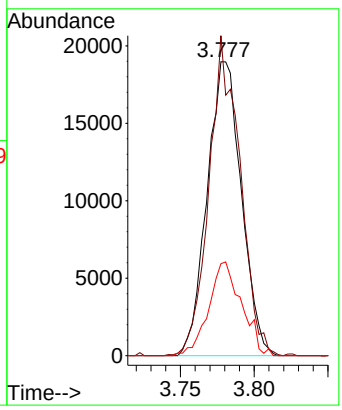




#35
Carbon Tetrachloride
Concen: 0.745 ppbv
RT: 3.777 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:117 Resp: 3061

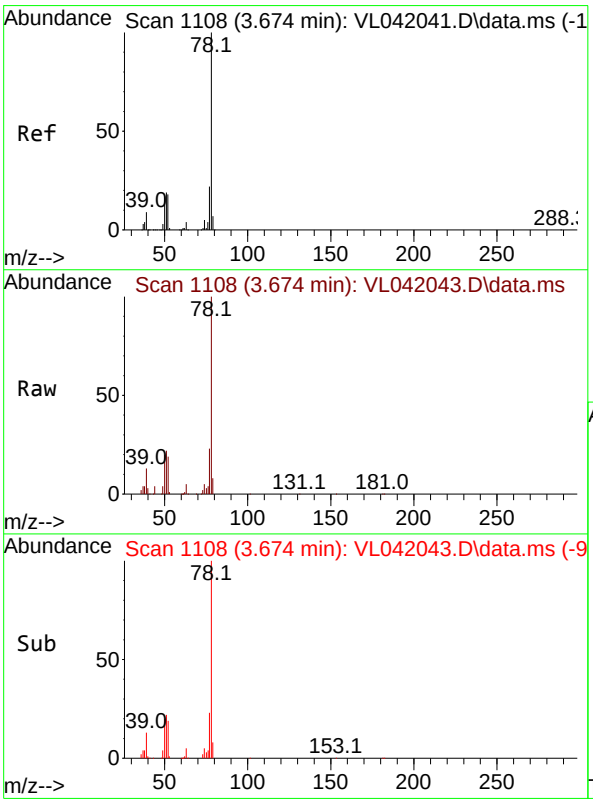
Ion	Ratio	Lower	Upper
117	100		
119	108.5	77.8	116.8
121	31.3	23.4	35.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

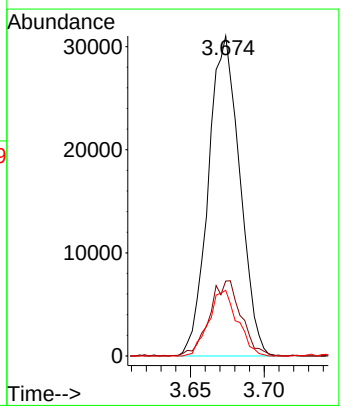
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

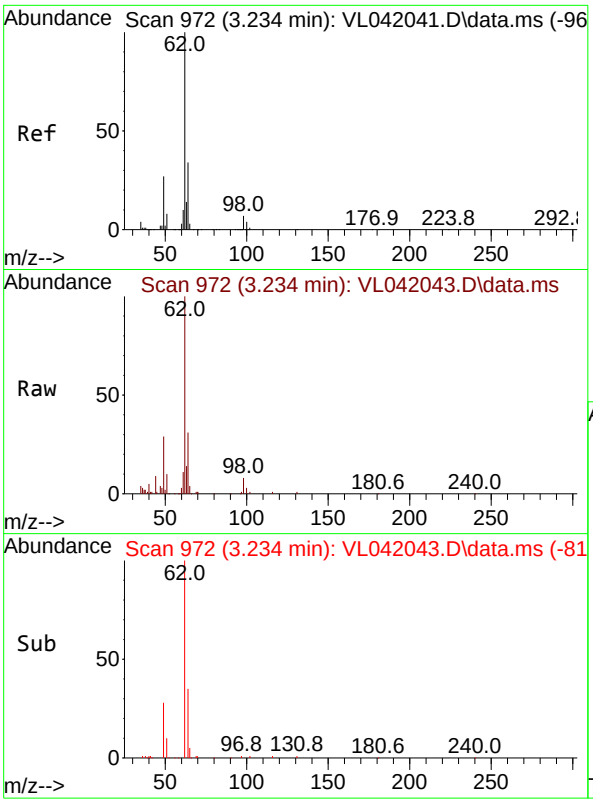


#36
Benzene
Concen: 0.895 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 78 Resp: 45892

Ion	Ratio	Lower	Upper
78	100		
77	23.2	17.7	26.5
50	20.5	13.9	20.9

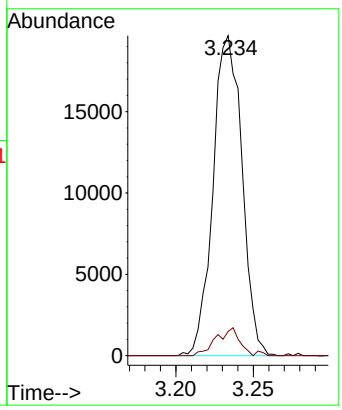




#37
1,2-Dichloroethane
Concen: 0.876 ppbv
RT: 3.234 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 62 Resp: 2558

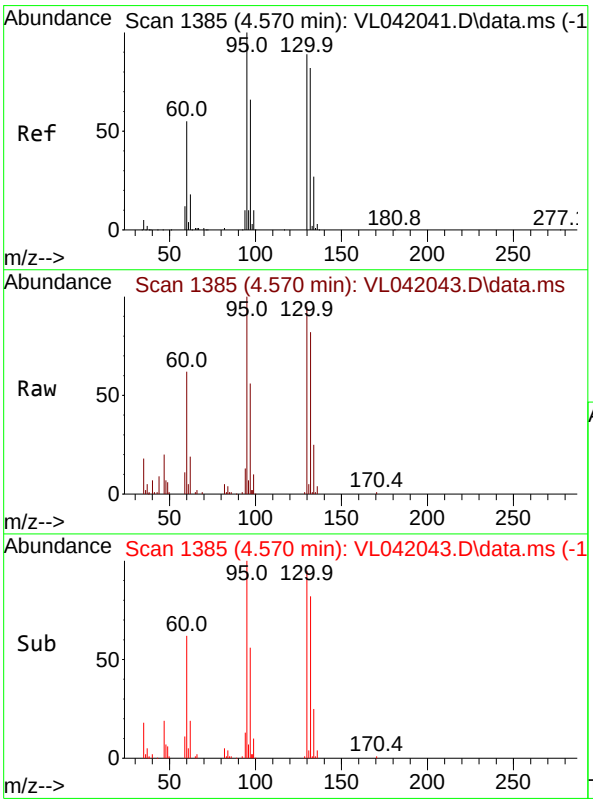
Ion	Ratio	Lower	Upper
62	100		
98	7.4	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

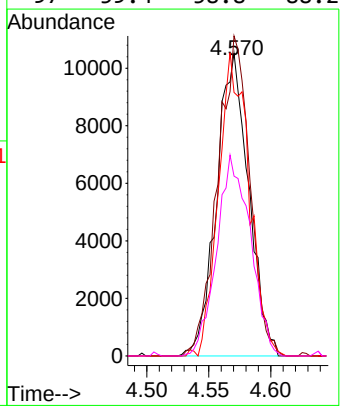
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

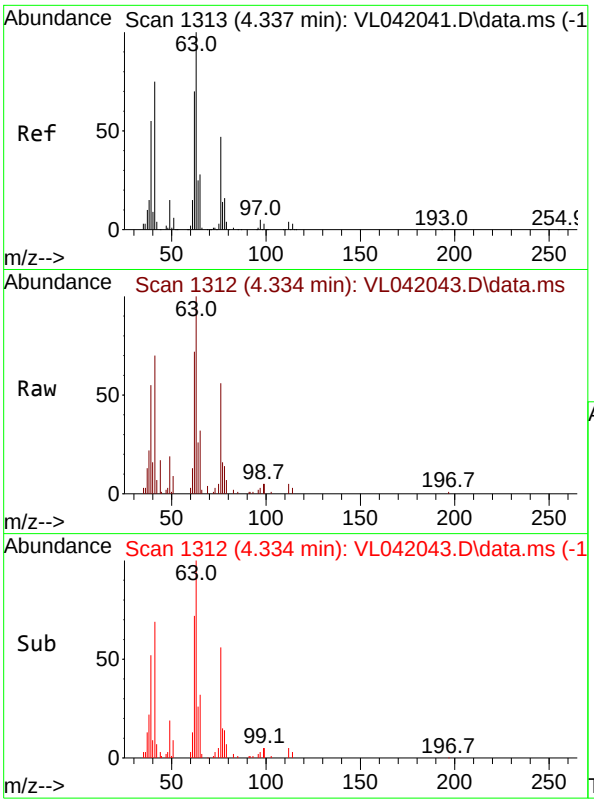


#38
Trichloroethene
Concen: 0.908 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:130 Resp: 18921

Ion	Ratio	Lower	Upper
130	100		
95	105.7	89.5	134.3
132	87.0	73.8	110.6
97	59.4	58.8	88.2

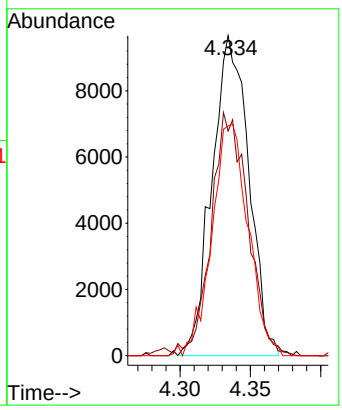




#39
1,2-Dichloropropane
Concen: 0.934 ppbv
RT: 4.334 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 63 Resp: 1755

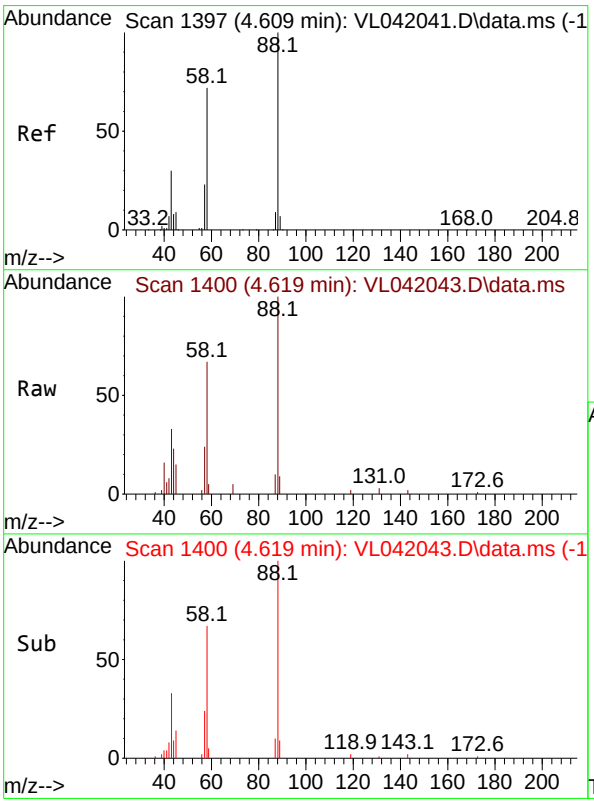
Ion	Ratio	Lower	Upper
63	100		
41	67.2	60.1	90.1
62	68.5	55.8	83.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

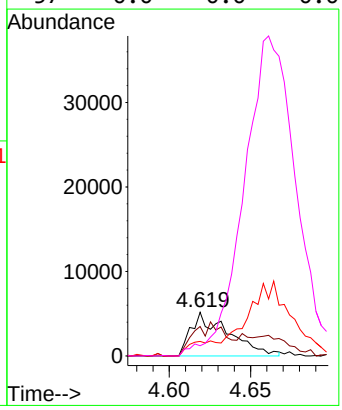
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

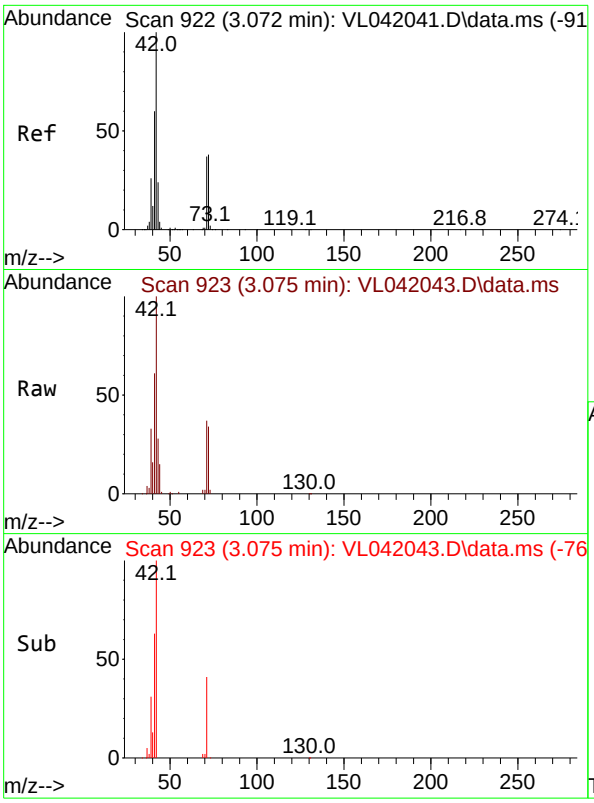


#40
1,4-Dioxane
Concen: 0.850 ppbv m
RT: 4.619 min Scan# 1400
Delta R.T. 0.010 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 88 Resp: 8319

Ion	Ratio	Lower	Upper
88	100		
58	123.2	62.6	94.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0

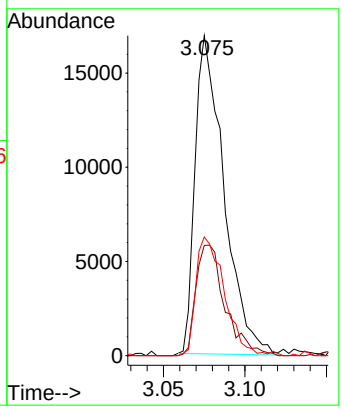




#41
Tetrahydrofuran
Concen: 1.000 ppbv
RT: 3.075 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 42 Resp: 2082

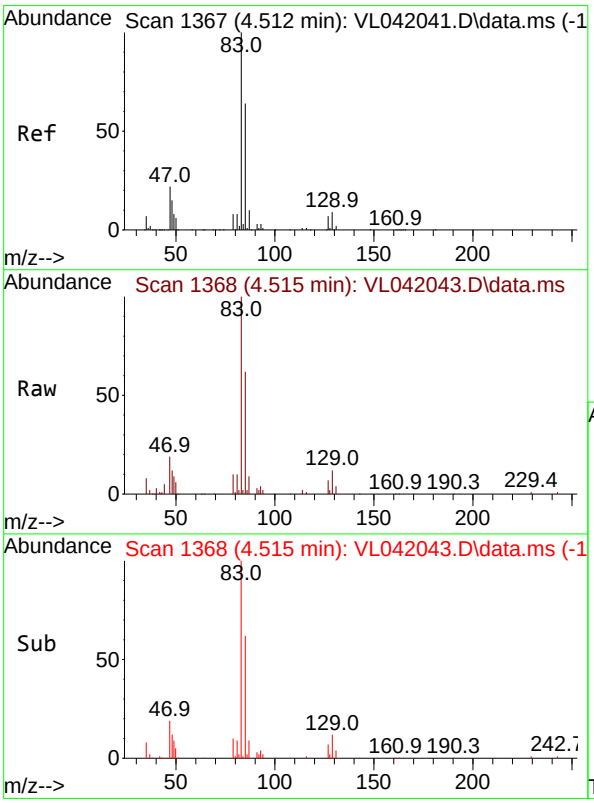
Ion	Ratio	Lower	Upper
42	100		
72	35.0	30.2	45.2
71	37.3	28.2	42.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

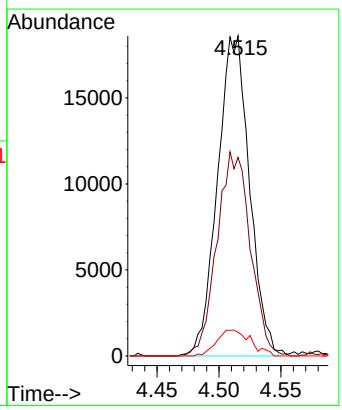
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

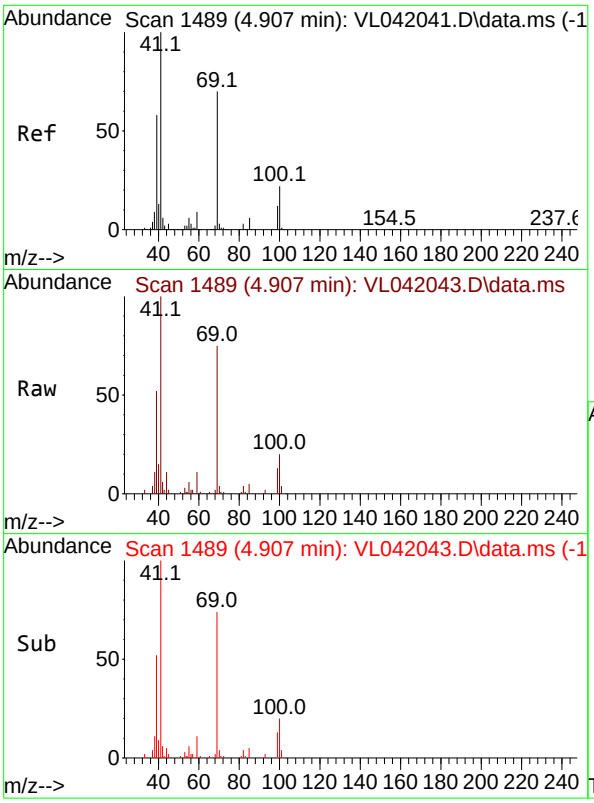


#42
Bromodichloromethane
Concen: 0.847 ppbv
RT: 4.515 min Scan# 1368
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 83 Resp: 33481

Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.4	77.2
127	7.4	5.8	8.6

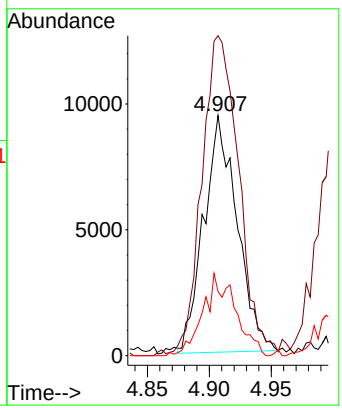




#43
Methyl Methacrylate
Concen: 0.756 ppbv
RT: 4.907 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 69 Resp: 1767

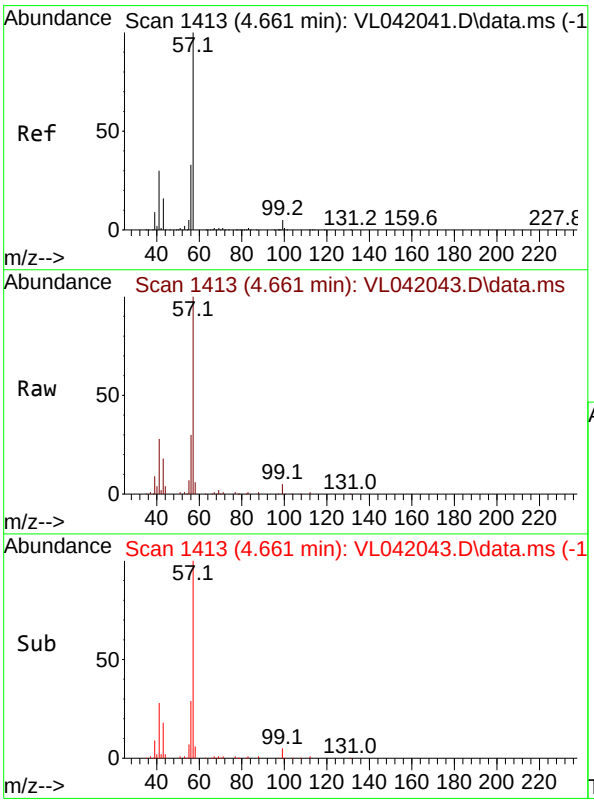
Ion	Ratio	Lower	Upper
69	100		
41	148.9	118.2	177.4
100	34.0	27.0	40.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

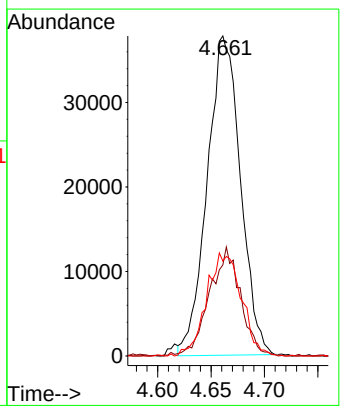
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

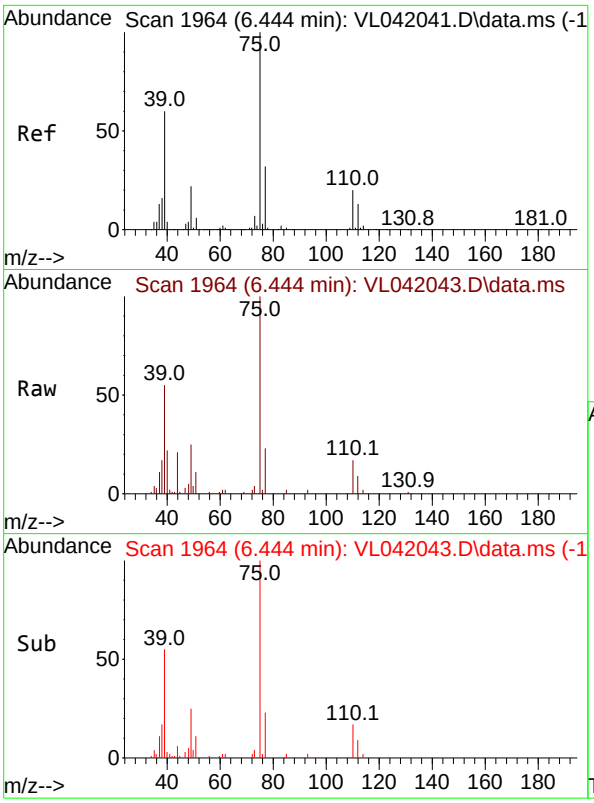


#44
2,2,4-Trimethylpentane
Concen: 0.941 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 57 Resp: 81921

Ion	Ratio	Lower	Upper
57	100		
41	31.8	24.4	36.6
56	33.7	26.5	39.7

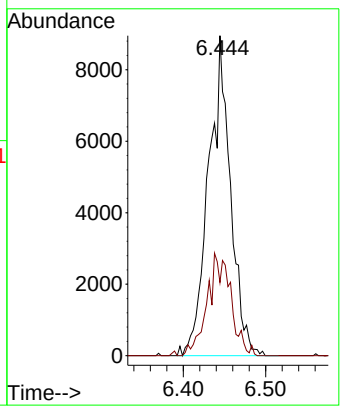




#45
t-1,3-Dichloropropene
Concen: 0.751 ppbv m
RT: 6.444 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 75 Resp: 1657

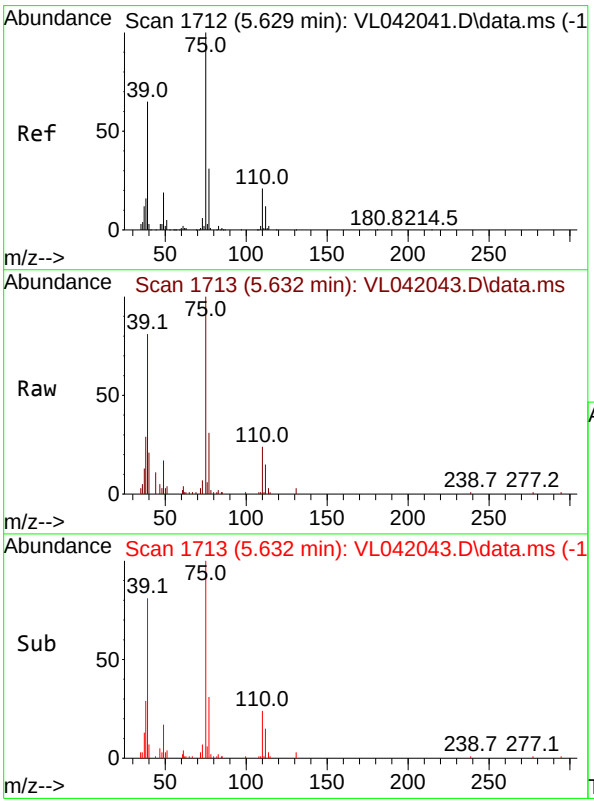
Ion	Ratio	Lower	Upper
75	100		
77	22.9	25.9	38.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

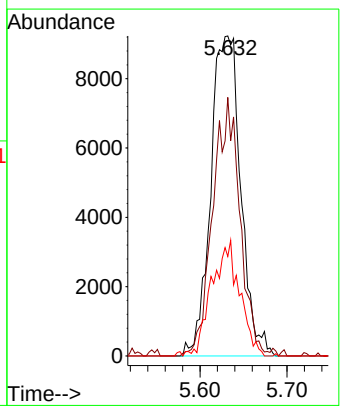
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

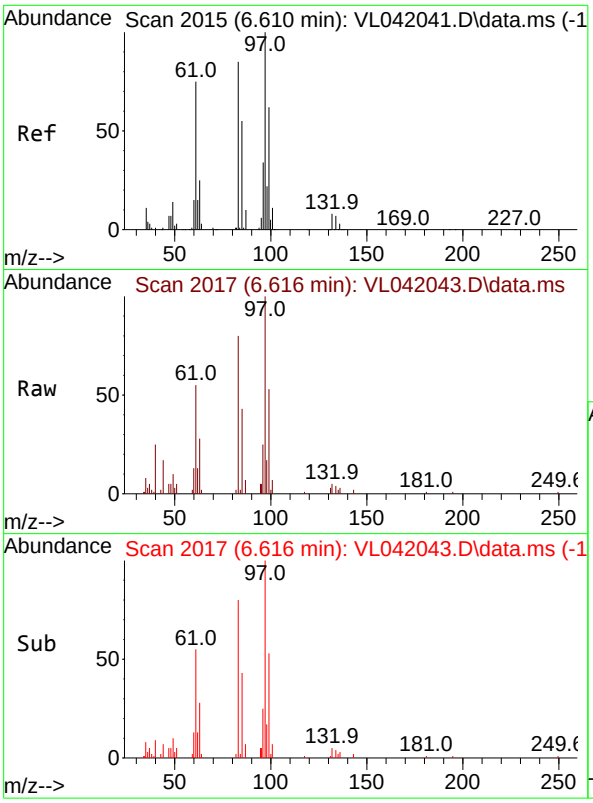


#46
cis-1,3-Dichloropropene
Concen: 0.790 ppbv m
RT: 5.632 min Scan# 1713
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 75 Resp: 22127

Ion	Ratio	Lower	Upper
75	100		
39	80.8	51.9	77.9#
77	31.1	24.9	37.3

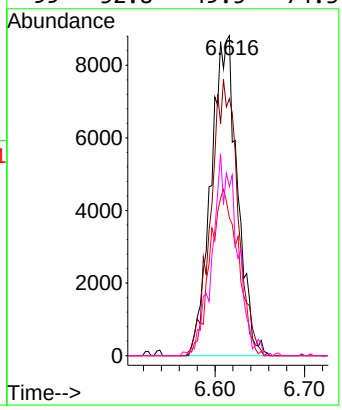




#47
1,1,2-Trichloroethane
Concen: 0.918 ppbv m
RT: 6.616 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 97 Resp: 1816

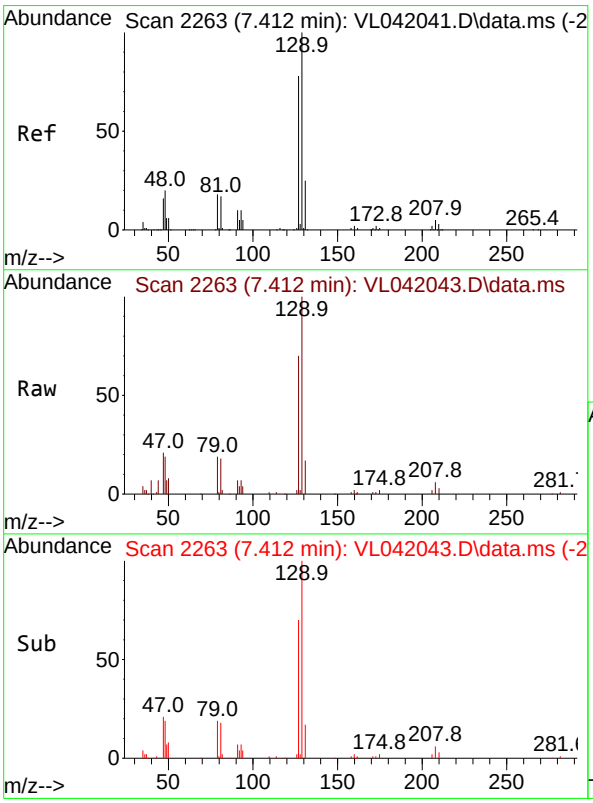
Ion	Ratio	Lower	Upper
97	100		
83	80.3	68.1	102.1
85	43.0	44.0	66.0
99	52.8	49.5	74.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

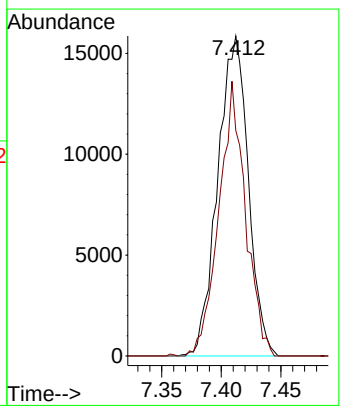
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

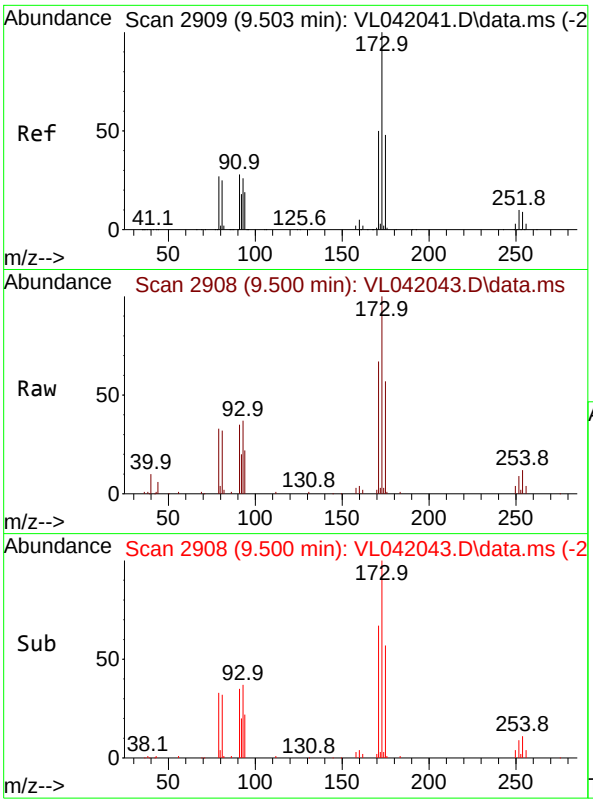


#48
Dibromochloromethane
Concen: 0.852 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:129 Resp: 28239

Ion	Ratio	Lower	Upper
129	100		
127	74.7	38.6	115.8

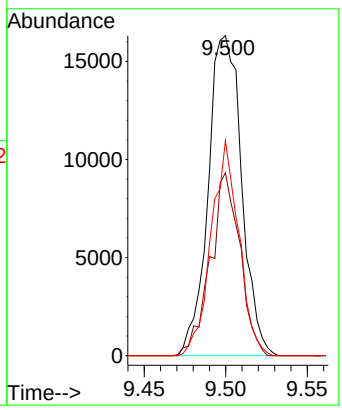




#49
Bromoform
Concen: 0.858 ppbv
RT: 9.500 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:173 Resp: 2331

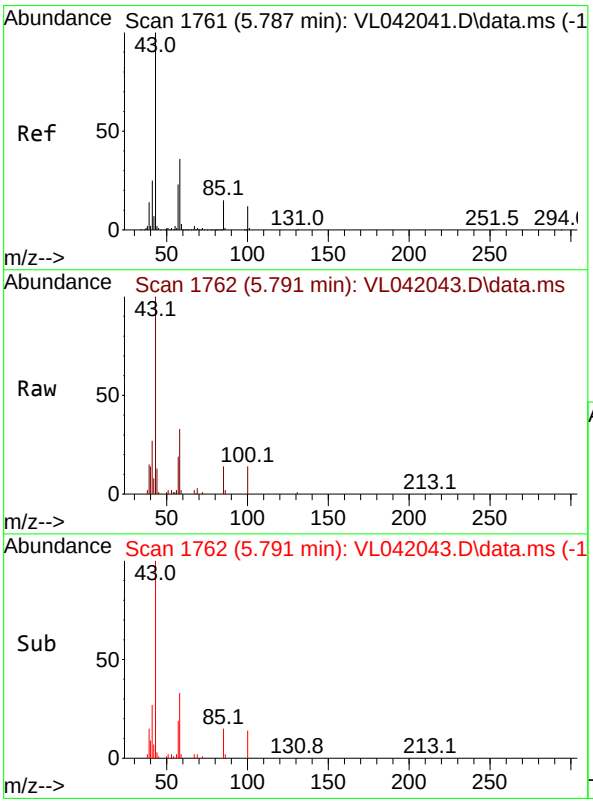
Ion	Ratio	Lower	Upper
173	100		
175	50.5	38.3	57.5
171	55.5	40.2	60.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

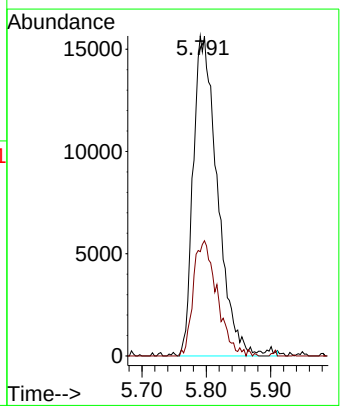
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

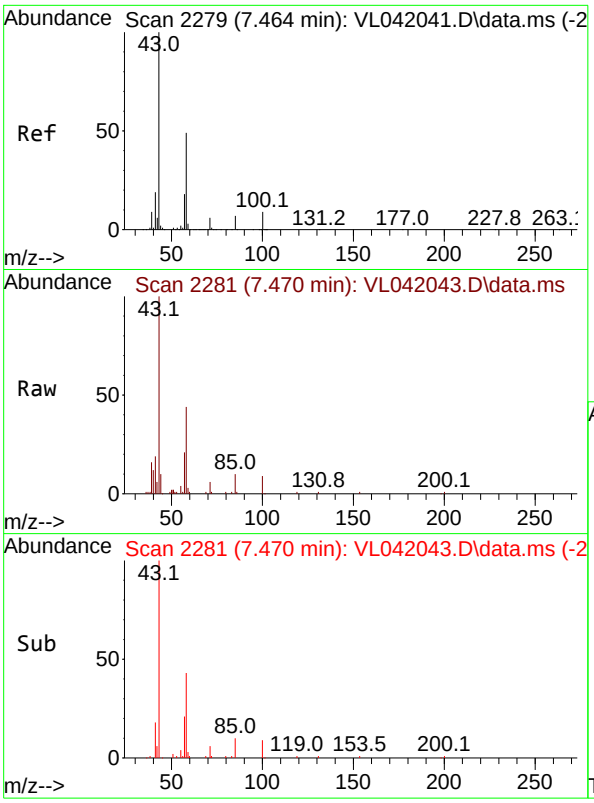


#50
4-Methyl-2-Pentanone
Concen: 0.737 ppbv m
RT: 5.791 min Scan# 1762
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 41249

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.3	43.9#





#51
2-Hexanone
Concen: 0.527 ppbv
RT: 7.470 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

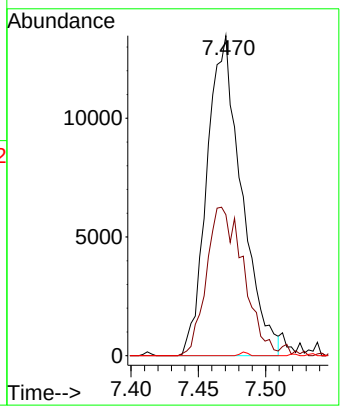
Tgt Ion: 43 Resp: 2411

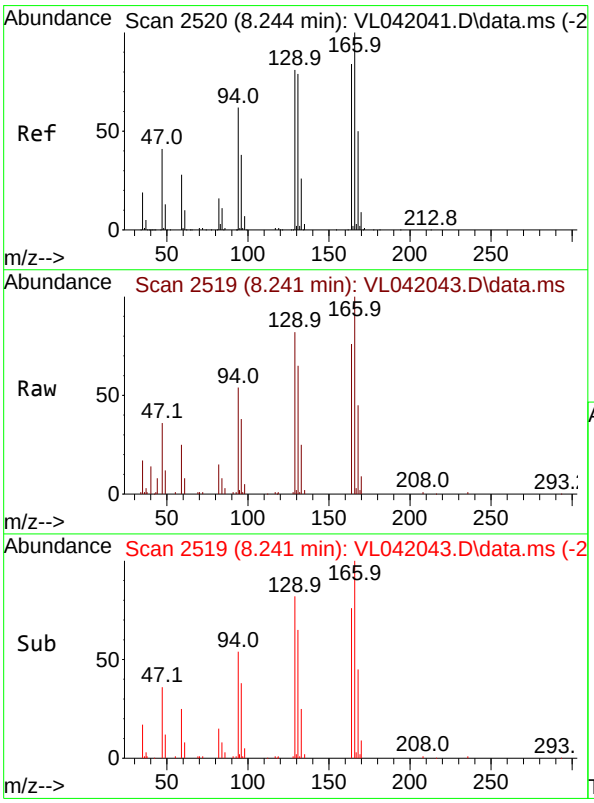
Ion	Ratio	Lower	Upper
43	100		
58	51.0	39.0	58.6
98	0.3	0.1	0.1#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

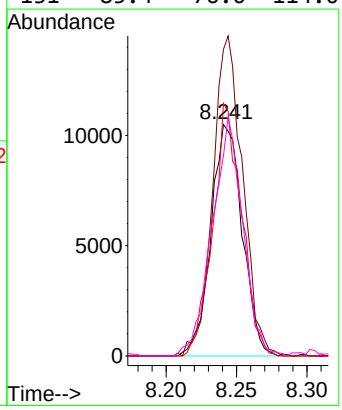


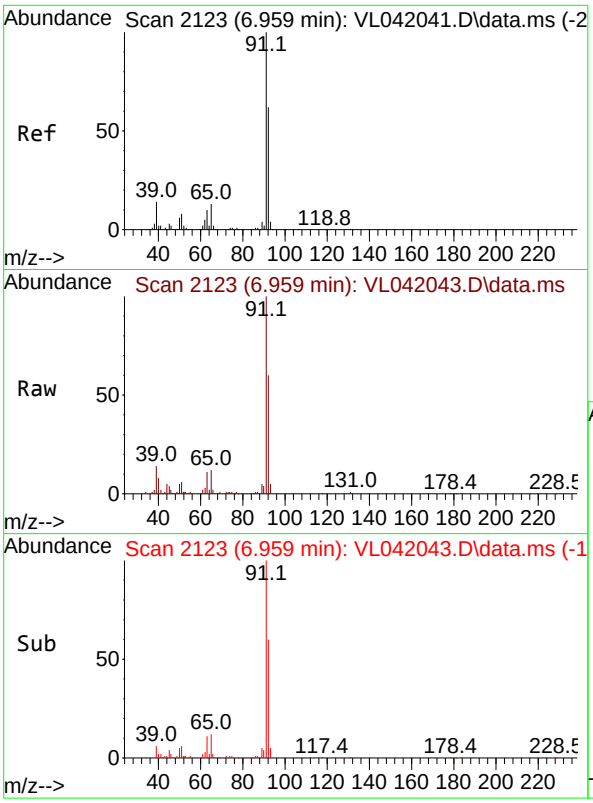


#52
Tetrachloroethene
Concen: 0.907 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:164 Resp: 16217

Ion	Ratio	Lower	Upper
164	100		
166	131.2	95.7	143.5
129	109.1	77.1	115.7
131	85.4	76.0	114.0

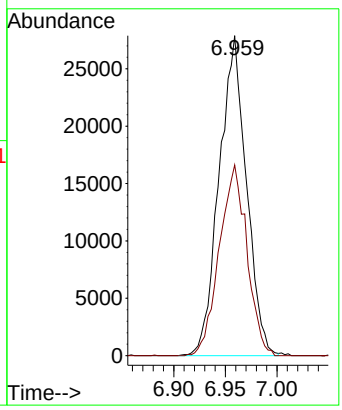




#53
Toluene
Concen: 0.838 ppbv
RT: 6.959 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 5123

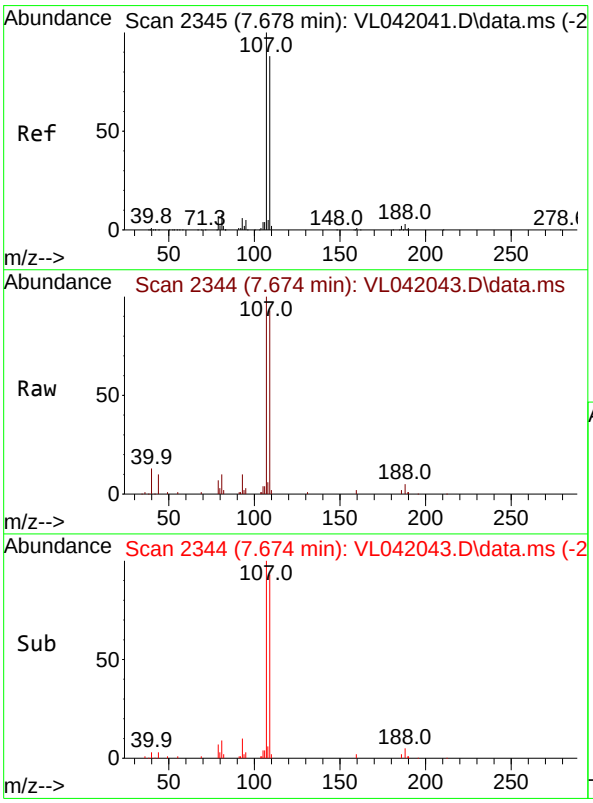
Ion	Ratio	Lower	Upper
91	100		
92	60.3	49.0	73.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

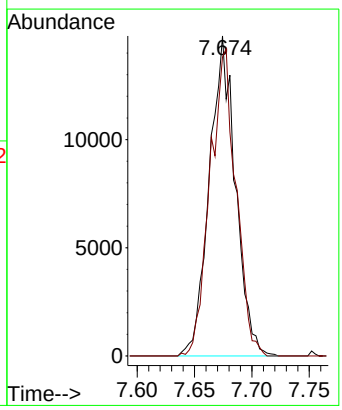
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

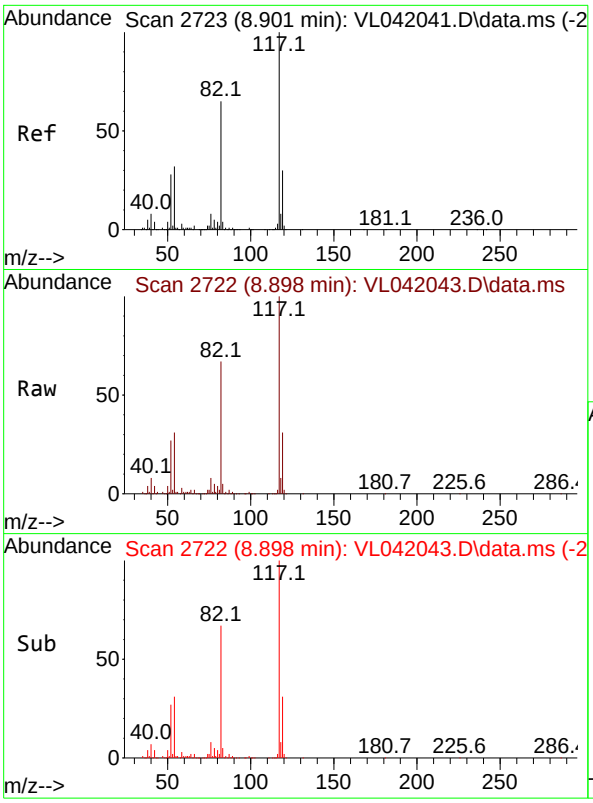


#54
1,2-Dibromoethane
Concen: 0.860 ppbv
RT: 7.674 min Scan# 2344
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:107 Resp: 23427

Ion	Ratio	Lower	Upper
107	100		
109	93.5	70.2	105.4

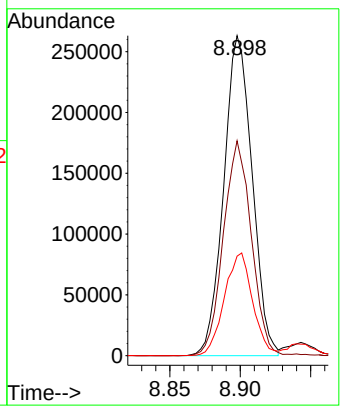




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:117 Resp: 36991

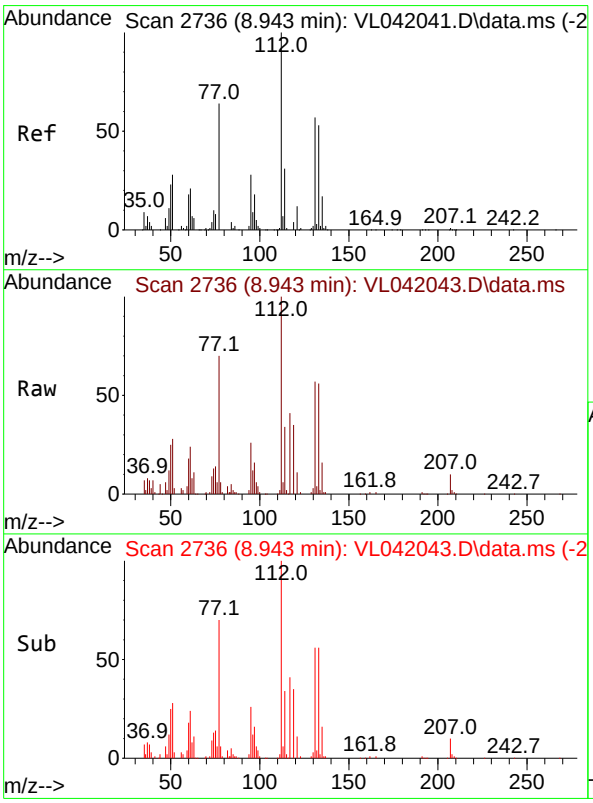
Ion	Ratio	Lower	Upper
117	100		
82	66.5	55.0	82.6
119	32.5	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

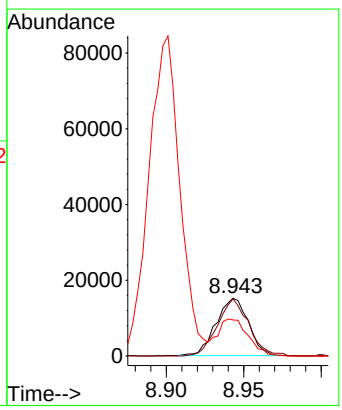
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

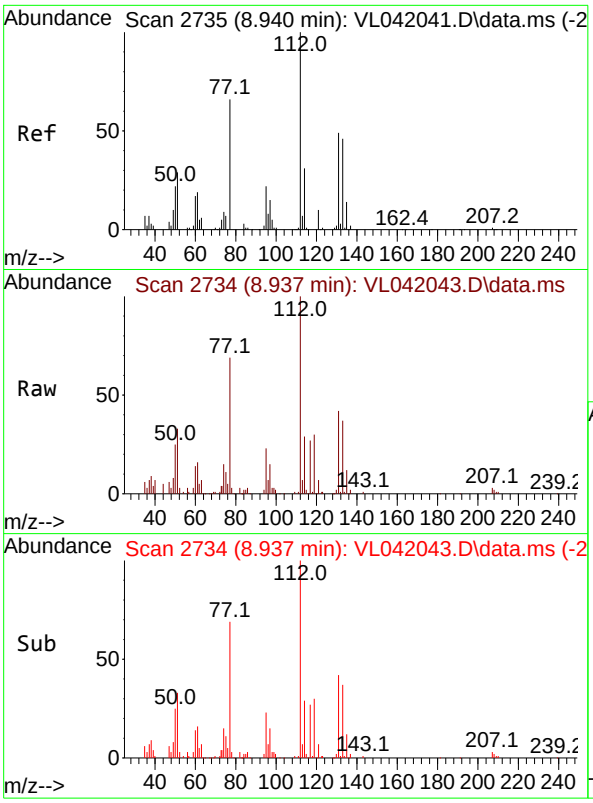


#56
1,1,1,2-Tetrachloroethane
Concen: 0.833 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:131 Resp: 22060

Ion	Ratio	Lower	Upper
131	100		
133	96.2	75.8	113.8
119	60.4	52.1	78.1

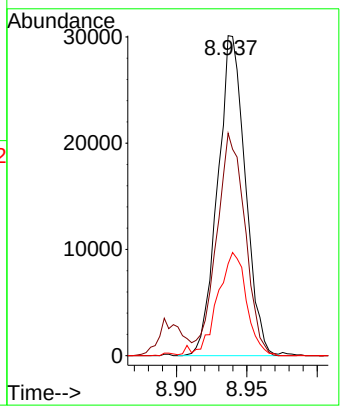




#57
Chlorobenzene
Concen: 0.946 ppbv
RT: 8.937 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:112 Resp: 4117

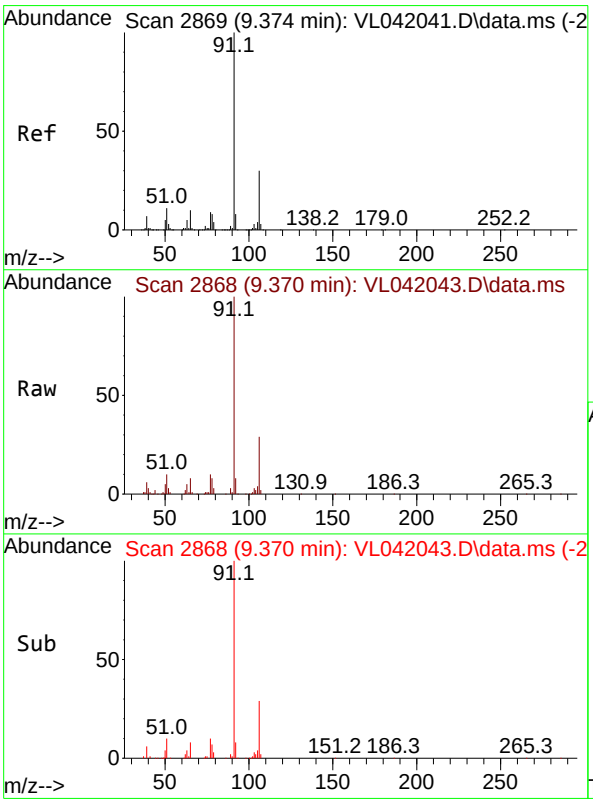
Ion	Ratio	Lower	Upper
112	100		
77	69.5	53.4	80.2
114	28.7	28.3	34.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

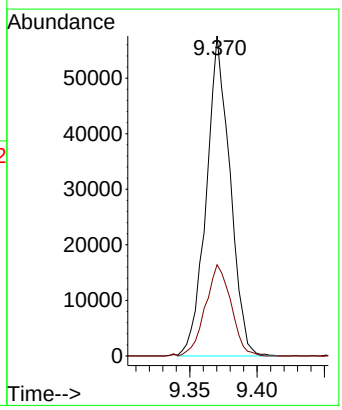
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

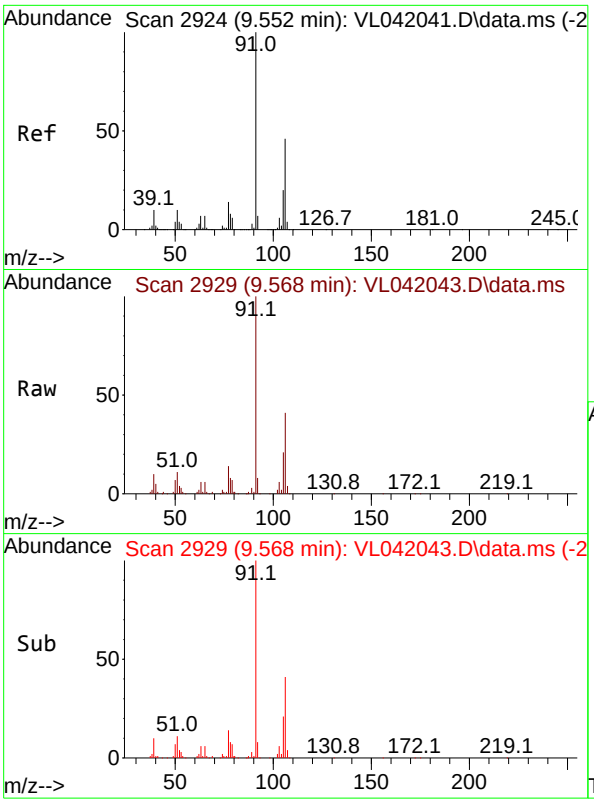


#58
Ethyl Benzene
Concen: 0.871 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 70507

Ion	Ratio	Lower	Upper
91	100		
106	28.5	24.2	36.2





#59
m/p-Xylene
Concen: 1.799 ppbv m
RT: 9.568 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

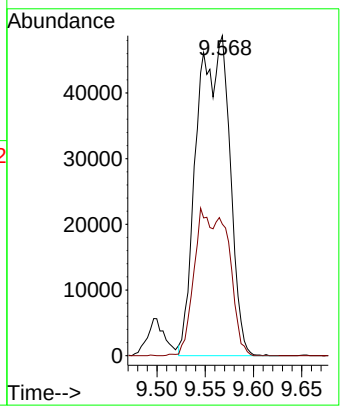
Tgt Ion: 91 Resp: 11469

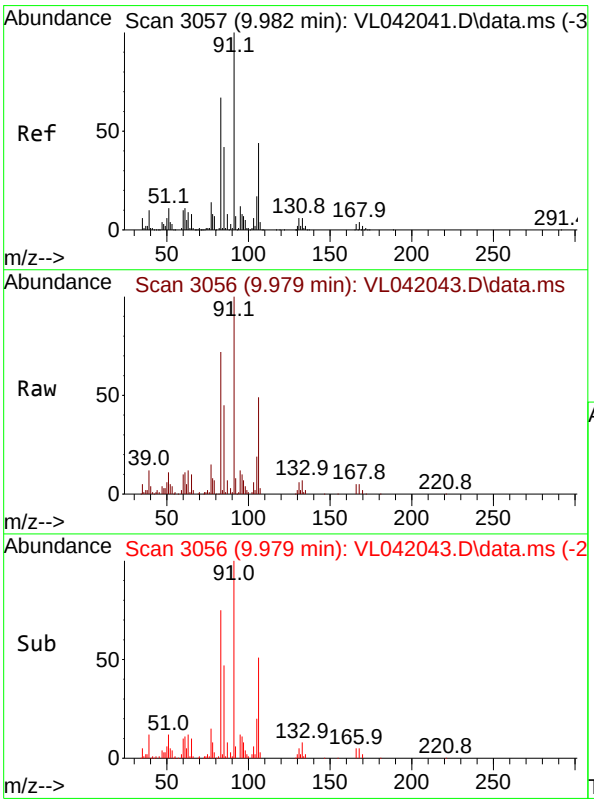
Ion	Ratio	Lower	Upper
91	100		
106	47.6	0.0	0.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

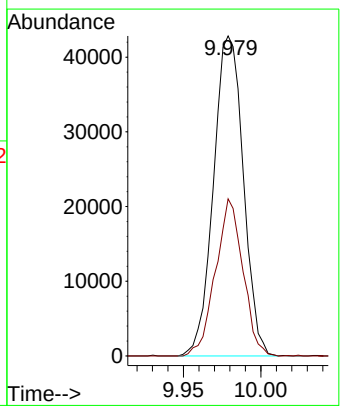


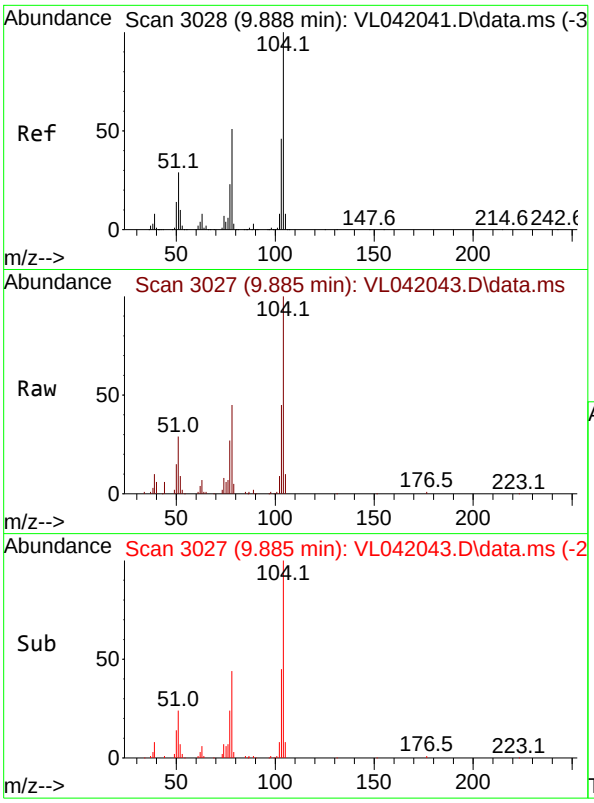


#60
o-Xylene
Concen: 0.889 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 57322

Ion	Ratio	Lower	Upper
91	100		
106	45.2	22.3	66.8





#61
Styrene
Concen: 0.865 ppbv
RT: 9.885 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

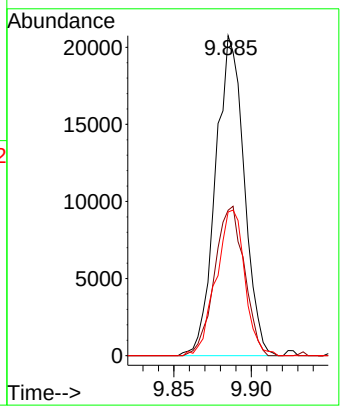
Tgt Ion:104 Resp: 2659

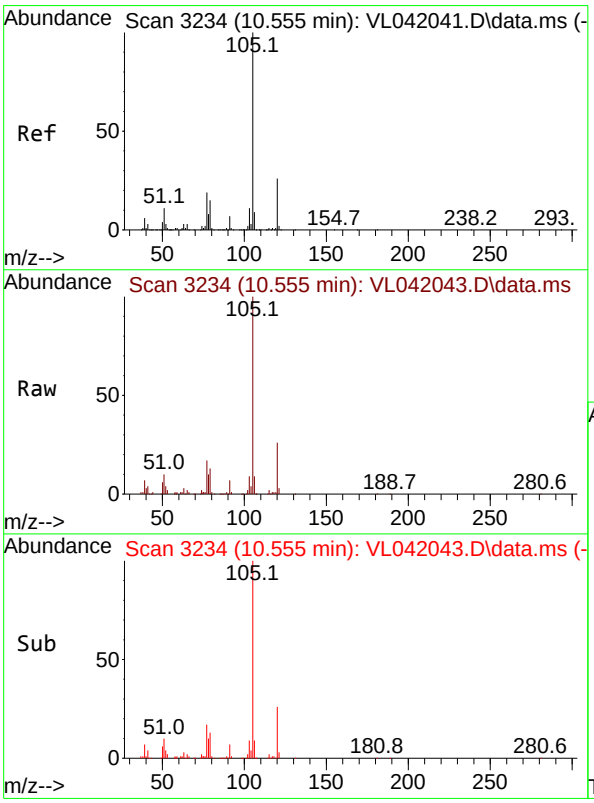
Ion	Ratio	Lower	Upper
104	100		
78	48.6	41.0	61.4
103	45.9	37.0	55.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

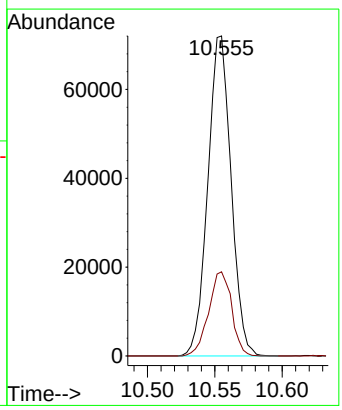


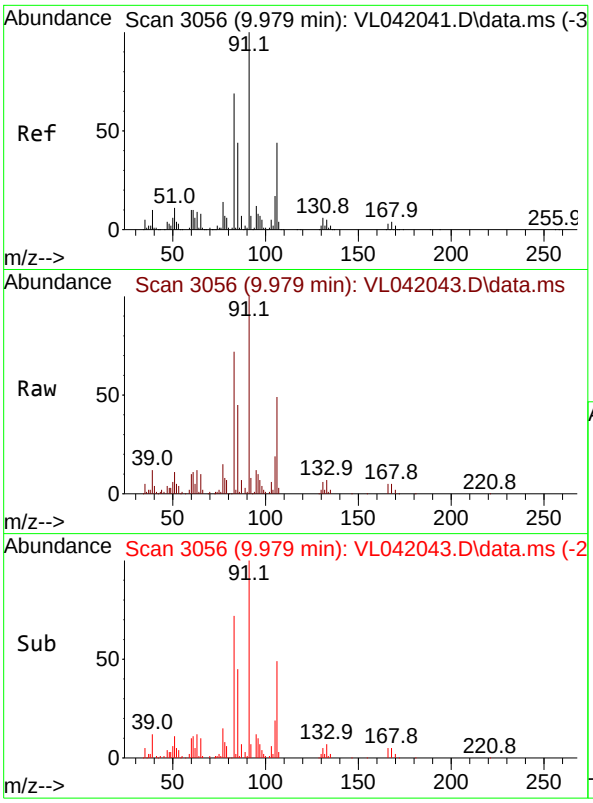


#62
Isopropylbenzene
Concen: 0.894 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 86533

Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.7	31.1





#63
1,1,2,2-Tetrachloroethane
Concen: 0.926 ppbv
RT: 9.979 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

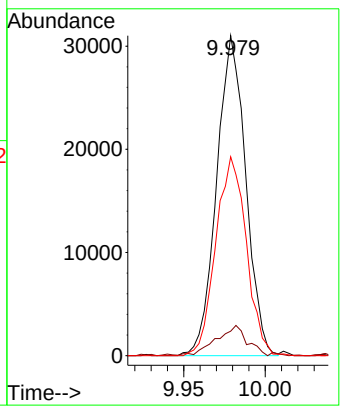
Tgt Ion: 83 Resp: 3852

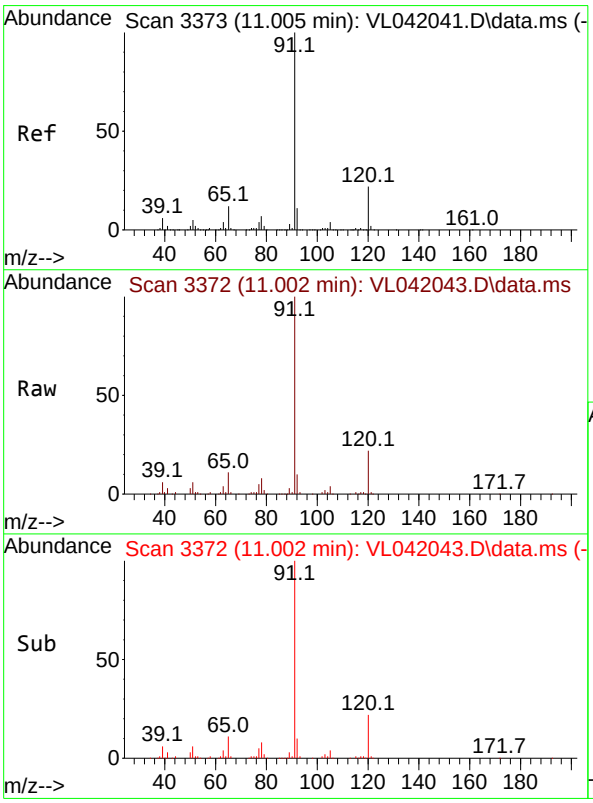
Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.5	13.7
85	65.2	32.1	96.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

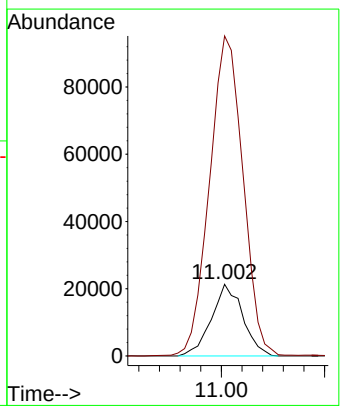


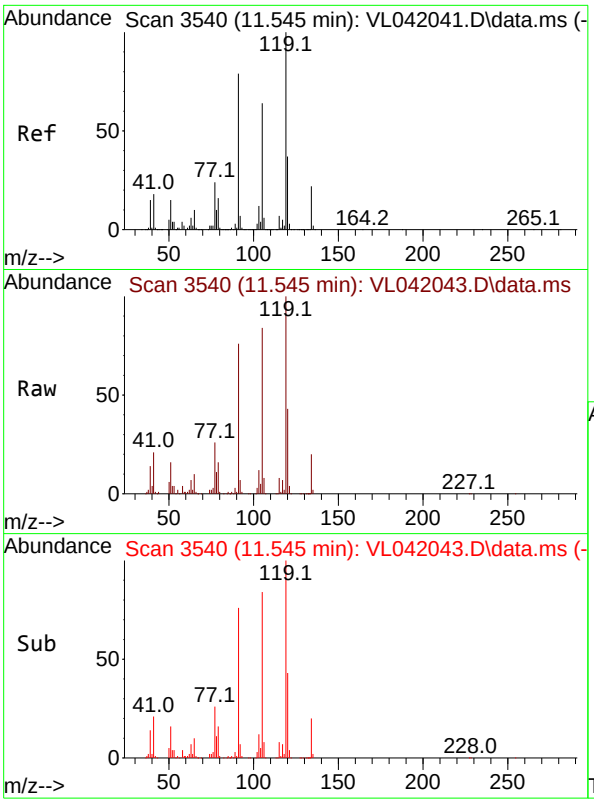


#64
n-propylbenzene
Concen: 0.944 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:120 Resp: 22456

Ion	Ratio	Lower	Upper
120	100		
91	478.3	370.6	556.0





#65
tert-Butylbenzene
Concen: 0.987 ppbv
RT: 11.545 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

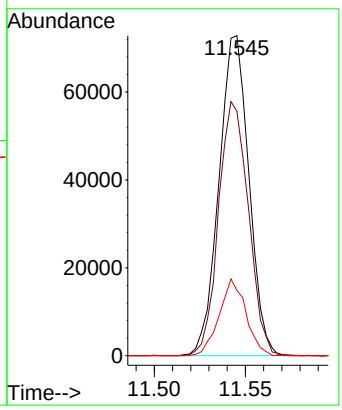
Tgt Ion:119 Resp: 8328

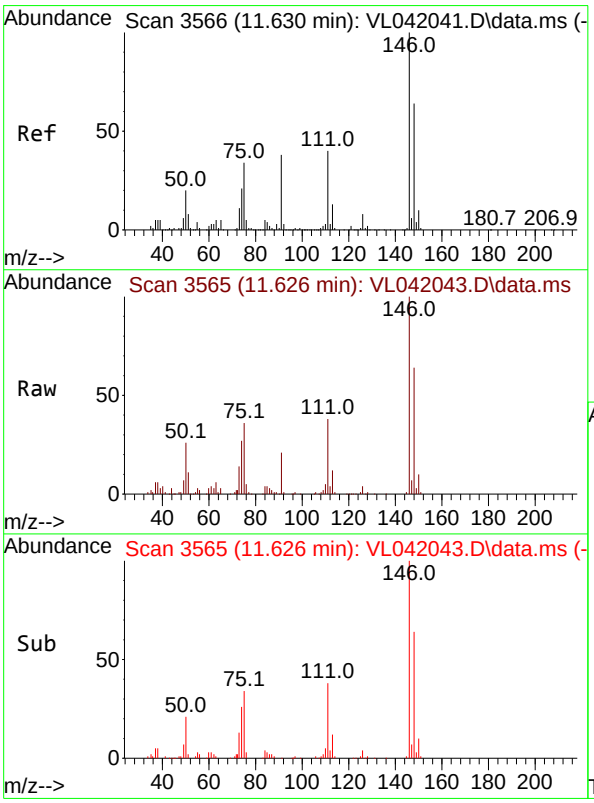
Ion	Ratio	Lower	Upper
119	100		
91	79.2	64.2	96.2
134	21.5	17.4	26.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

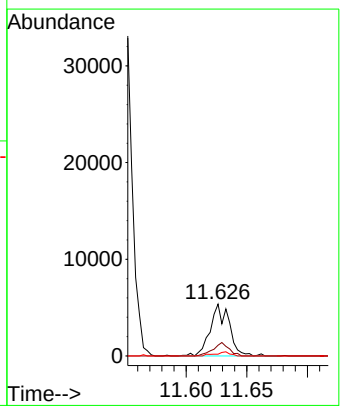


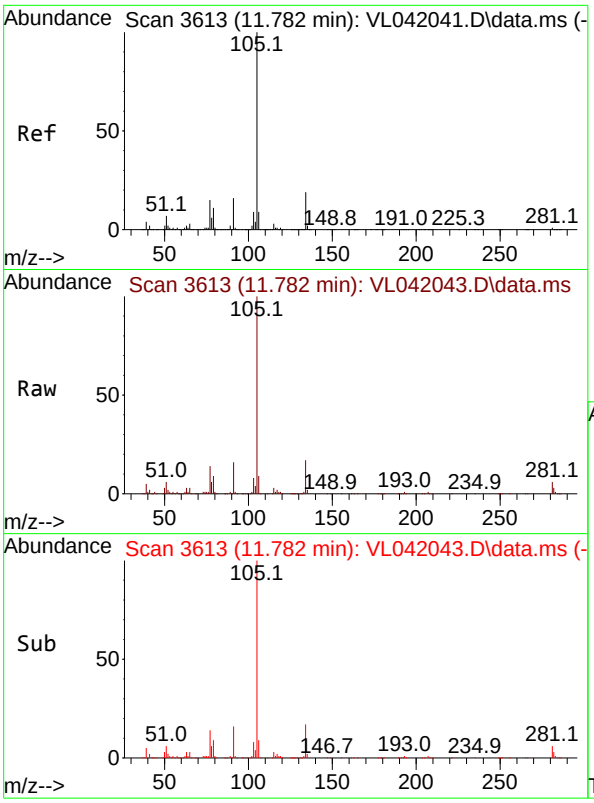


#66
Benzyl Chloride
Concen: 0.695 ppbv m
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 5880

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.5	21.7#
128	0.0	5.4	8.2#

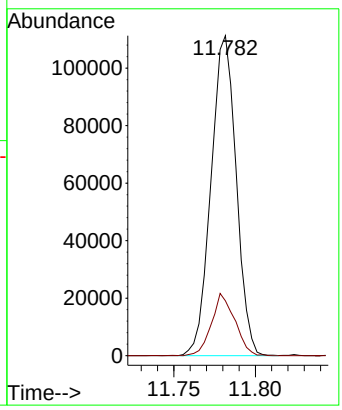




#67
sec-Butylbenzene
Concen: 1.007 ppbv
RT: 11.782 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 11943

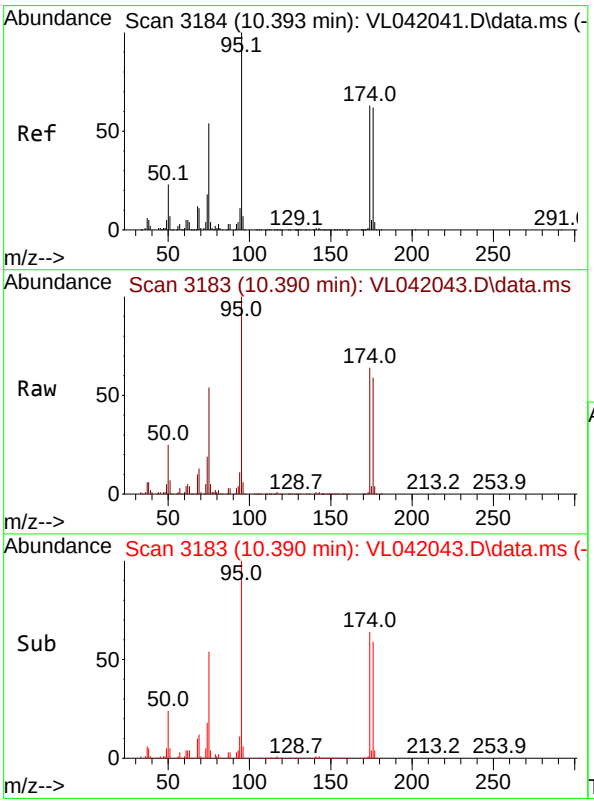
Ion	Ratio	Lower	Upper
105	100		
134	18.1	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

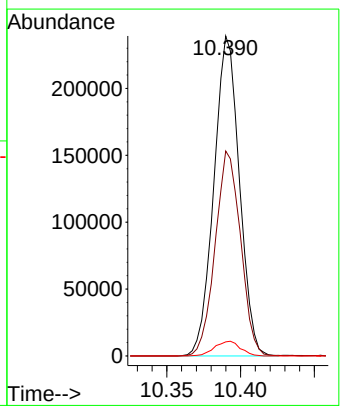
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

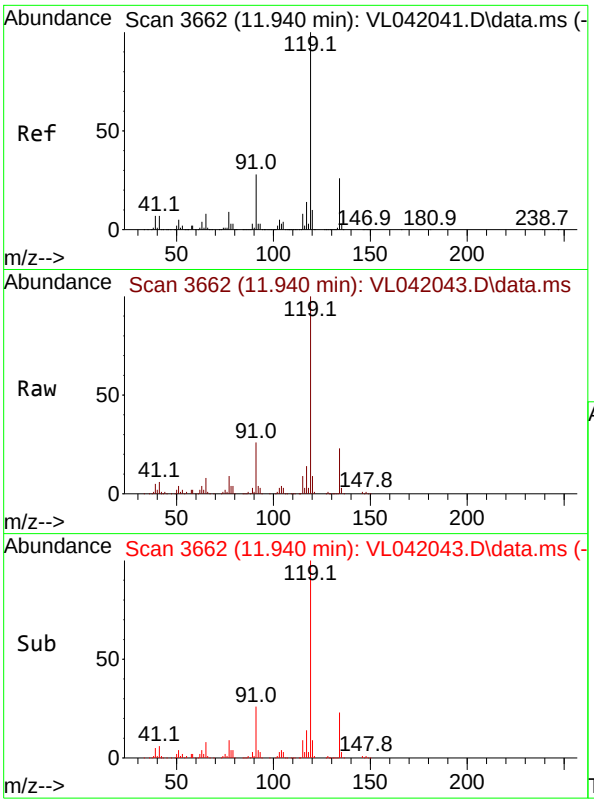


#68
1-Bromo-4-Fluorobenzene
Concen: 9.420 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 95 Resp: 287450

Ion	Ratio	Lower	Upper
95	100		
174	63.9	51.8	77.6
175	4.7	3.9	5.9

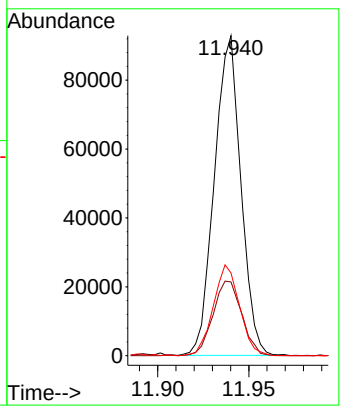




#69
p-Isopropyltoluene
Concen: 0.966 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:119 Resp: 9371

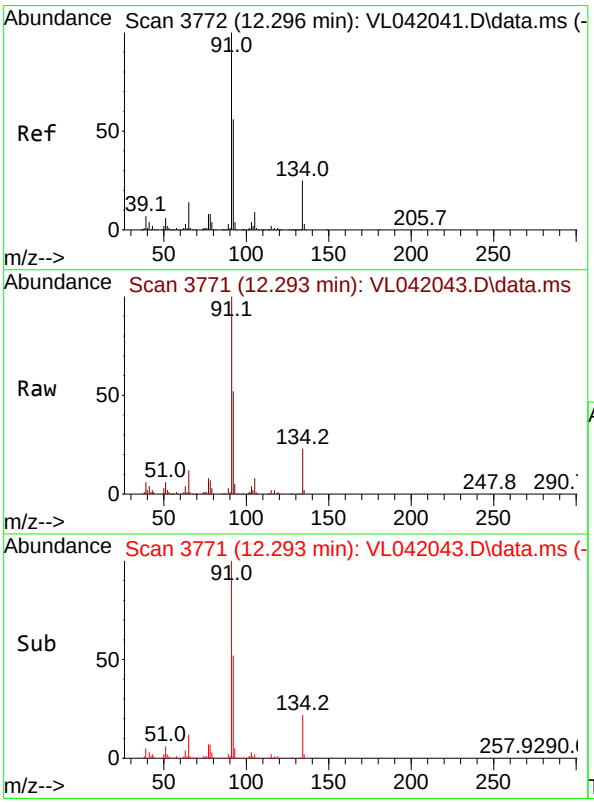
Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.9	31.3
91	28.2	23.1	34.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

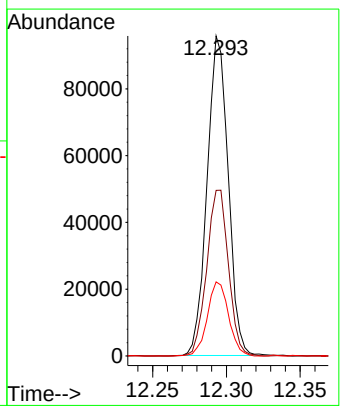
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

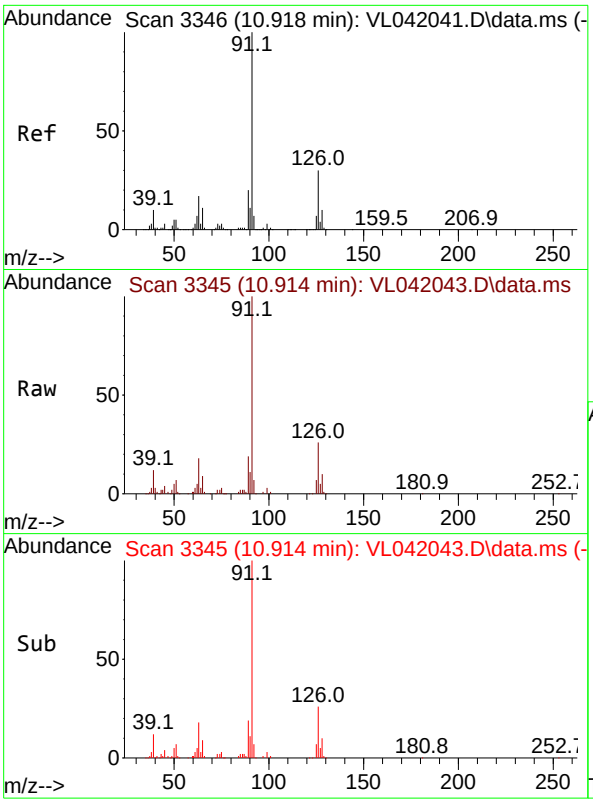


#70
n-Butylbenzene
Concen: 0.993 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 94969

Ion	Ratio	Lower	Upper
91	100		
92	53.5	44.7	67.1
134	23.5	18.9	28.3

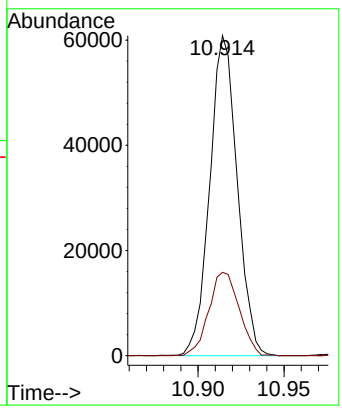




#71
2-Chlorotoluene
Concen: 0.928 ppbv
RT: 10.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 6765

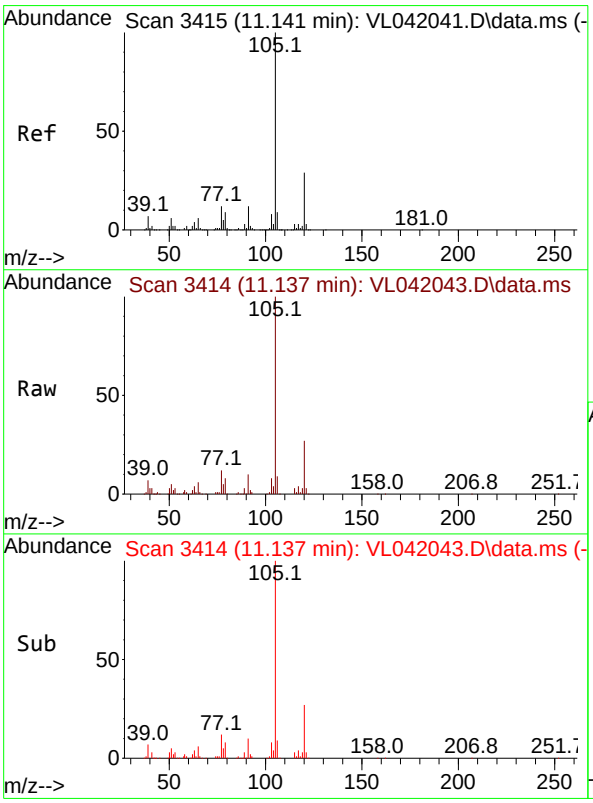
Ion	Ratio	Lower	Upper
91	100		
126	28.8	11.9	47.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

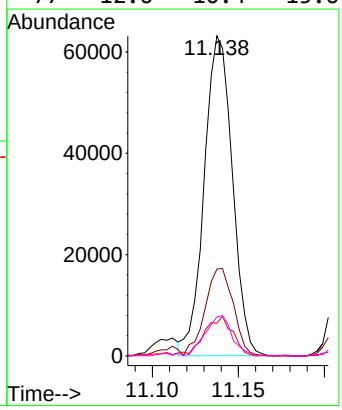
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

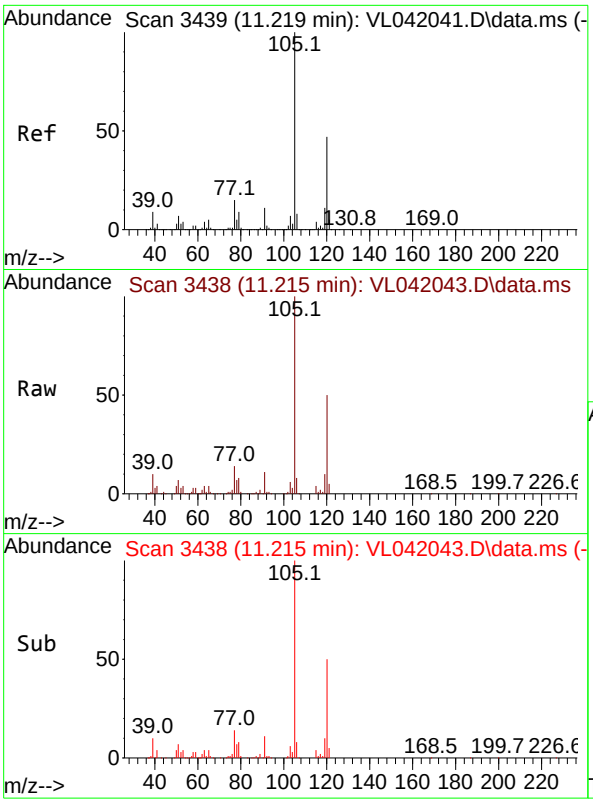


#72
4-Ethyltoluene
Concen: 0.952 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 71906

Ion	Ratio	Lower	Upper
105	100		
120	29.5	24.1	36.1
91	13.5	10.2	15.4
77	12.6	10.4	15.6

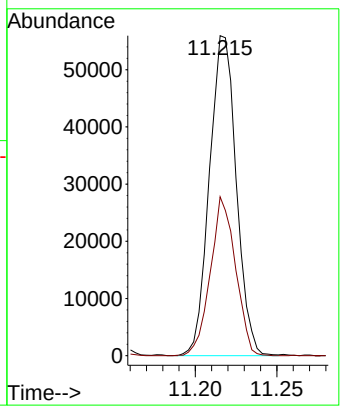




#73
1,3,5-Trimethylbenzene
Concen: 0.983 ppbv
RT: 11.215 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 6408

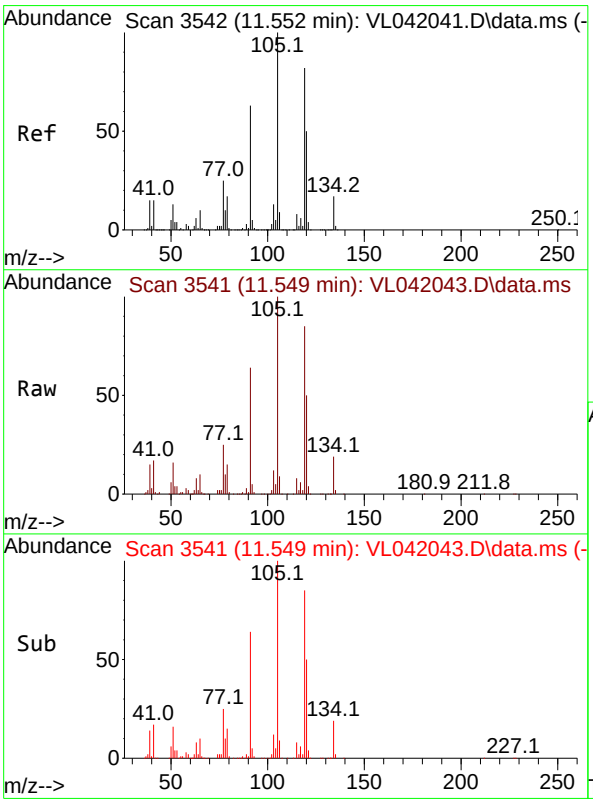
Ion	Ratio	Lower	Upper
105	100		
120	49.7	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

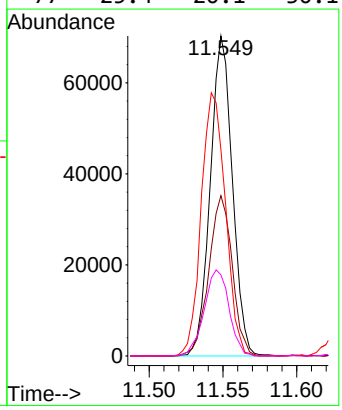
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

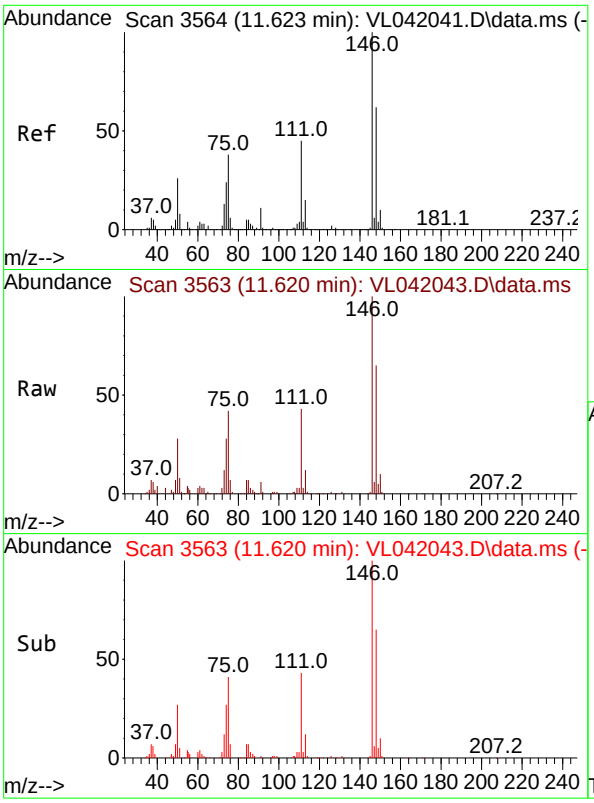


#74
1,2,4-Trimethylbenzene
Concen: 1.048 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 73323

Ion	Ratio	Lower	Upper
105	100		
120	50.1	40.2	60.2
91	64.4	51.4	77.2
77	25.4	20.1	30.1

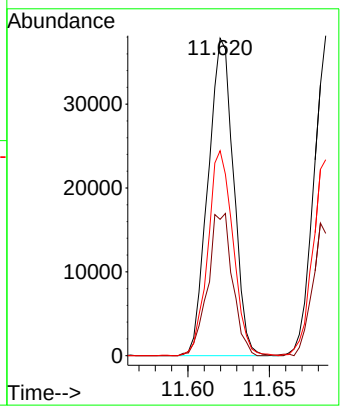




#75
1,3-Dichlorobenzene
Concen: 1.091 ppbv
RT: 11.620 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:146 Resp: 4106

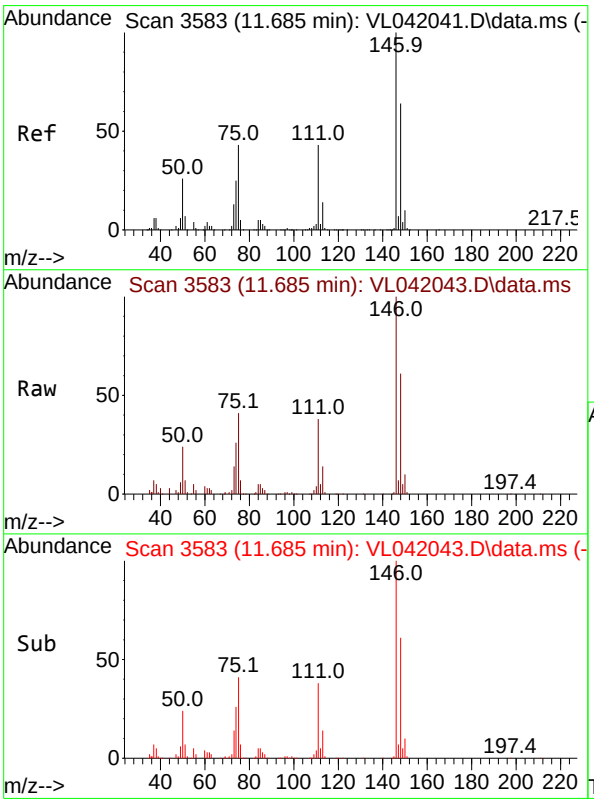
Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.4	67.2
148	63.9	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

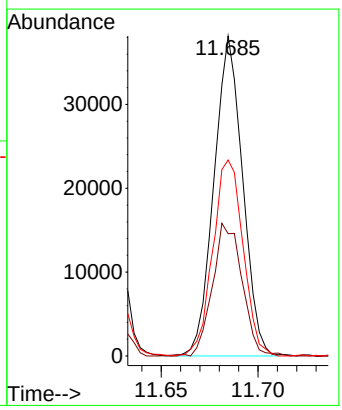
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

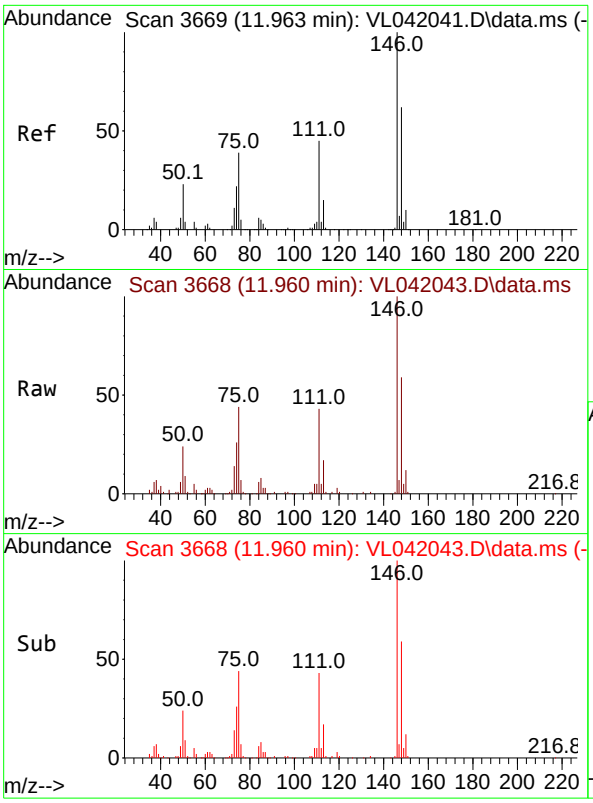


#76
1,4-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:146 Resp: 39235

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.5	64.5
148	65.0	31.6	95.0

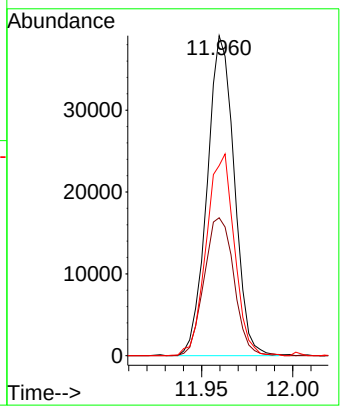




#77
1,2-Dichlorobenzene
Concen: 1.127 ppbv
RT: 11.960 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:146 Resp: 4057

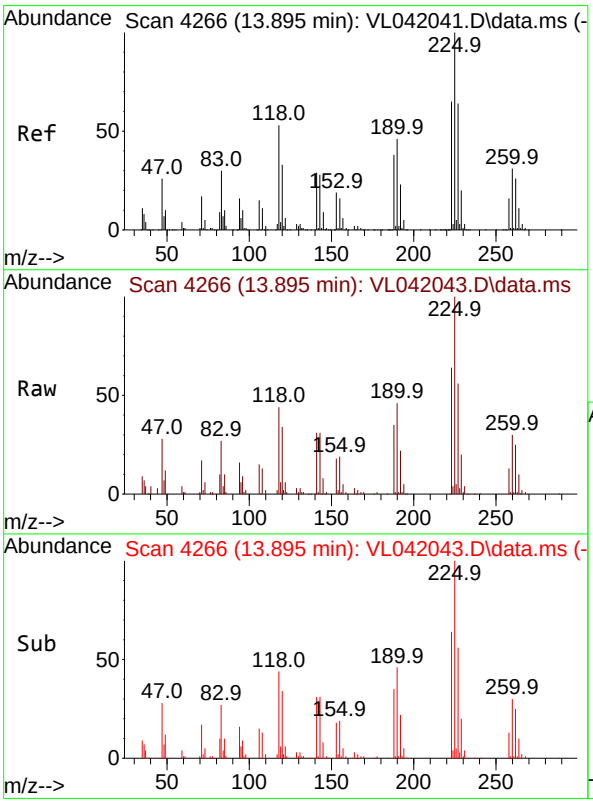
Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.2	69.6
148	65.4	31.4	94.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

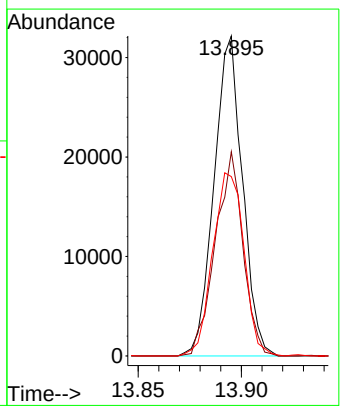
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

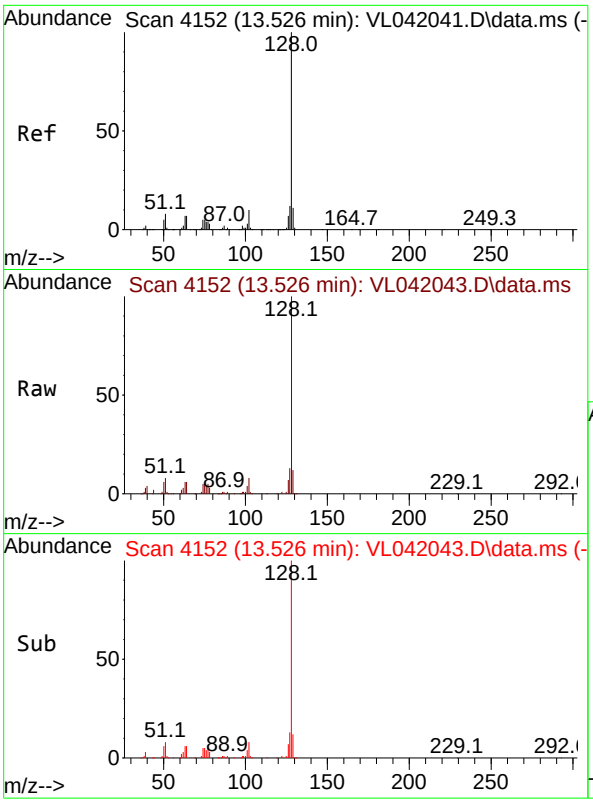


#78
Hexachloro-1,3-Butadiene
Concen: 1.033 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:225 Resp: 30764

Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.2	75.2
227	63.2	50.8	76.2

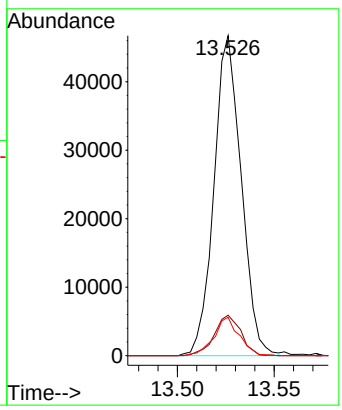




#79
Naphthalene
Concen: 0.665 ppbv
RT: 13.526 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:128 Resp: 4574

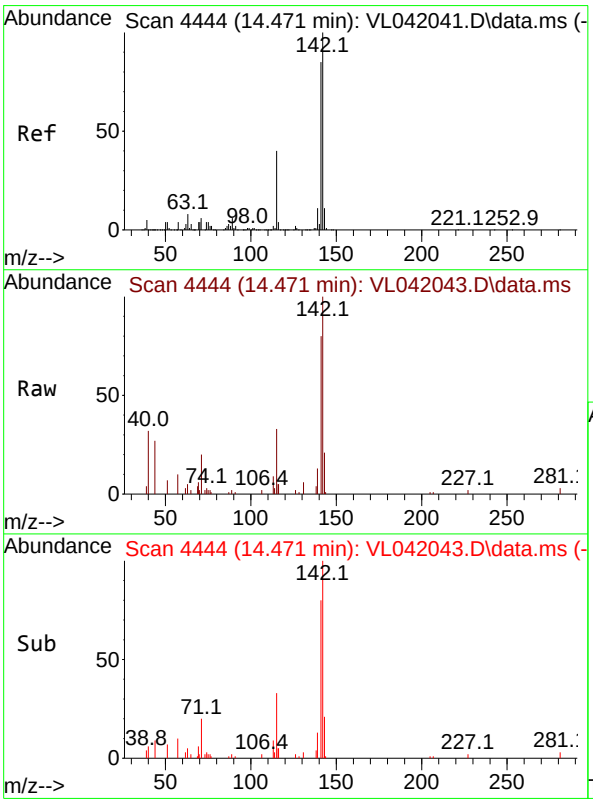
Ion	Ratio	Lower	Upper
128	100		
127	12.7	9.8	14.6
129	12.0	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

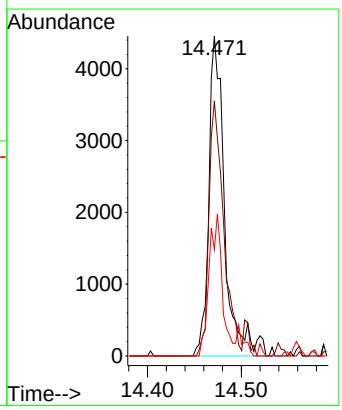
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

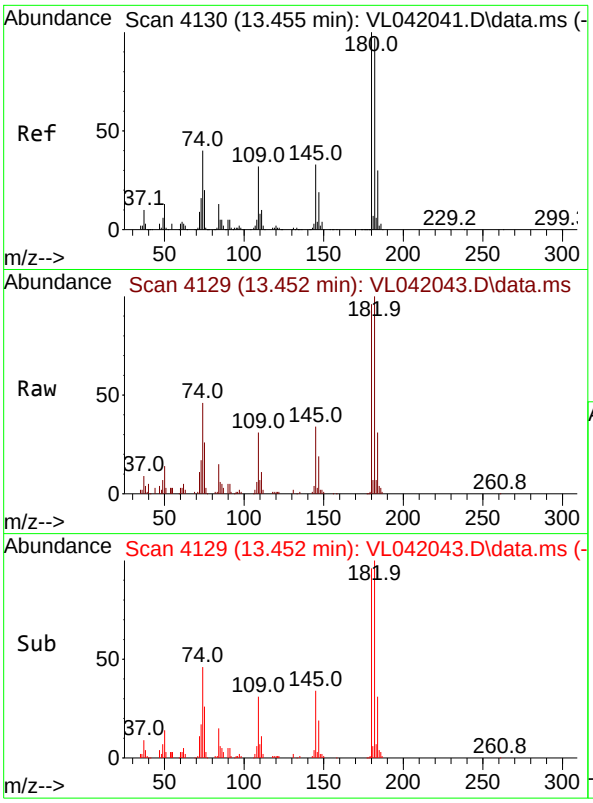


#80
Naphthalene,2-methyl-
Concen: 0.168 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:142 Resp: 5244

Ion	Ratio	Lower	Upper
142	100		
141	77.7	65.8	98.6
115	41.6	29.5	44.3

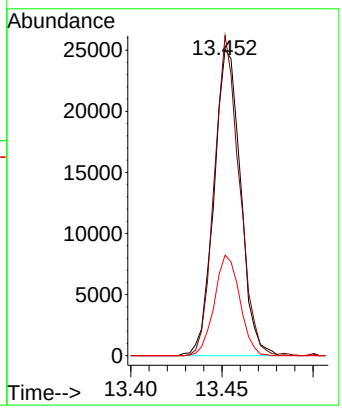




#81
1,2,4-Trichlorobenzene
Concen: 0.908 ppbv
RT: 13.452 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:180 Resp: 2540

Ion	Ratio	Lower	Upper
180	100		
182	98.8	75.1	112.7
184	31.4	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	159644	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.975	114	421340	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	365954	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	281042	9.310	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 93.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8852	0.322	ppbv		98
3) Chlorodifluoromethane	1.479	51	11921	0.392	ppbv		94
4) Chloromethane	1.537	50	3497	0.327	ppbv	#	88
5) Vinyl Chloride	1.583	62	3005	0.235	ppbv		98
6) Bromomethane	1.673	94	1359	0.275	ppbv		92
7) Chloroethane	1.709	64	1205	0.290	ppbv		89
8) Dichlorotetrafluoroethane	1.557	85	7123	0.295	ppbv		99
9) Propene	1.486	41	4904	0.374	ppbv		94
10) Heptane	5.004	43	15731	0.432	ppbv		98
11) Trichlorofluoromethane	1.884	101	8429	0.305	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.146	101	7336	0.340	ppbv		98
13) Ethanol	1.725	45	426	0.288	ppbv		75
14) Bromoethene	1.787	108	2598	0.323	ppbv	#	89
15) Acetone	1.842	43	8655	0.328	ppbv		96
16) 1,3-Butadiene	1.615	39	3803	0.304	ppbv		97
17) tert-Butyl alcohol	2.049	59	9447	0.290	ppbv	#	90
18) 1,1-Dichloroethene	2.039	96	3173	0.308	ppbv		94
19) Isopropyl Alcohol	1.894	45	4481	0.303	ppbv	#	32
20) Methylene Chloride	2.068	84	3423	0.345	ppbv		97
21) Allyl Chloride	2.104	41	5640	0.296	ppbv		100
22) trans-1,2-Dichloroethene	2.347	96	3838m	0.343	ppbv		
23) Vinyl Acetate	2.473	43	5499	0.385	ppbv	#	86
24) 1,1-Dichloroethane	2.418	63	7396	0.326	ppbv	#	88
25) Ethyl Acetate	2.848	43	30593	0.423	ppbv		98
26) Hexane	2.832	57	12739	0.439	ppbv		98
27) Carbon Disulfide	2.159	76	8316	0.305	ppbv	#	15
28) Methyl tert-Butyl Ether	2.450	73	5185	0.292	ppbv	#	80
29) Chloroform	2.858	83	17278	0.411	ppbv		93
30) Cyclohexane	3.874	84	9209	0.391	ppbv		88
31) cis-1,2-Dichloroethene	2.729	61	11344	0.395	ppbv		97
32) 1,1,1-Trichloroethane	3.382	97	15027	0.322	ppbv		93
34) 2-Butanone	2.570	43	17555	0.484	ppbv		99
35) Carbon Tetrachloride	3.780	117	14223	0.348	ppbv		90
36) Benzene	3.670	78	22728	0.445	ppbv		95
37) 1,2-Dichloroethane	3.230	62	13141	0.452	ppbv		100
38) Trichloroethene	4.570	130	9115	0.440	ppbv	#	87
39) 1,2-Dichloropropane	4.331	63	8877m	0.474	ppbv		
40) 1,4-Dioxane	4.622	88	4046m	0.416	ppbv		
41) Tetrahydrofuran	3.078	42	9880	0.477	ppbv		98
42) Bromodichloromethane	4.505	83	16973	0.431	ppbv	#	96
43) Methyl Methacrylate	4.904	69	8428	0.362	ppbv		93
44) 2,2,4-Trimethylpentane	4.661	57	40623	0.469	ppbv		98
45) t-1,3-Dichloropropene	6.441	75	8720m	0.397	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	10834m	0.389	ppbv		
47) 1,1,2-Trichloroethane	6.609	97	8982m	0.456	ppbv		
48) Dibromochloromethane	7.406	129	13014m	0.395	ppbv		
49) Bromoform	9.496	173	11640	0.430	ppbv		98
50) 4-Methyl-2-Pentanone	5.794	43	20992m	0.377	ppbv		
51) 2-Hexanone	7.470	43	12149m	0.267	ppbv		
52) Tetrachloroethene	8.241	164	8012	0.450	ppbv		95
53) Toluene	6.956	91	24224	0.398	ppbv		96
54) 1,2-Dibromoethane	7.674	107	11718m	0.432	ppbv		
56) 1,1,1,2-Tetrachloroethane	8.940	131	11100	0.424	ppbv	#	61
57) Chlorobenzene	8.936	112	20167	0.468	ppbv		97
58) Ethyl Benzene	9.370	91	34506	0.431	ppbv		90
59) m/p-Xylene	9.568	91	54449m	0.863	ppbv		
60) o-Xylene	9.979	91	28757	0.451	ppbv		95
61) Styrene	9.885	104	12051	0.396	ppbv		99
62) Isopropylbenzene	10.552	105	42074	0.439	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.975	83	18774	0.456	ppbv		96
64) n-propylbenzene	11.001	120	10900	0.463	ppbv		100
65) tert-Butylbenzene	11.542	119	38066	0.456	ppbv		98
66) Benzyl Chloride	11.626	91	2589	0.309	ppbv	#	96
67) sec-Butylbenzene	11.778	105	54394	0.464	ppbv		97
69) p-Isopropyltoluene	11.937	119	40978	0.427	ppbv		95
70) n-Butylbenzene	12.293	91	42673	0.451	ppbv		99
71) 2-Chlorotoluene	10.914	91	32161	0.446	ppbv		99
72) 4-Ethyltoluene	11.137	105	32477	0.434	ppbv	#	95
73) 1,3,5-Trimethylbenzene	11.215	105	29130	0.452	ppbv		91
74) 1,2,4-Trimethylbenzene	11.548	105	33950	0.491	ppbv		97
75) 1,3-Dichlorobenzene	11.616	146	20339	0.546	ppbv		96
76) 1,4-Dichlorobenzene	11.684	146	20492	0.564	ppbv		93
77) 1,2-Dichlorobenzene	11.959	146	19373	0.544	ppbv		96
78) Hexachloro-1,3-Butadiene	13.892	225	15367	0.522	ppbv		99
79) Naphthalene	13.523	128	17897	0.263	ppbv	#	95
80) Naphthalene,2-methyl-	14.478	142	1646	0.053	ppbv	#	81
81) 1,2,4-Trichlorobenzene	13.452	180	10771	0.389	ppbv		94

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

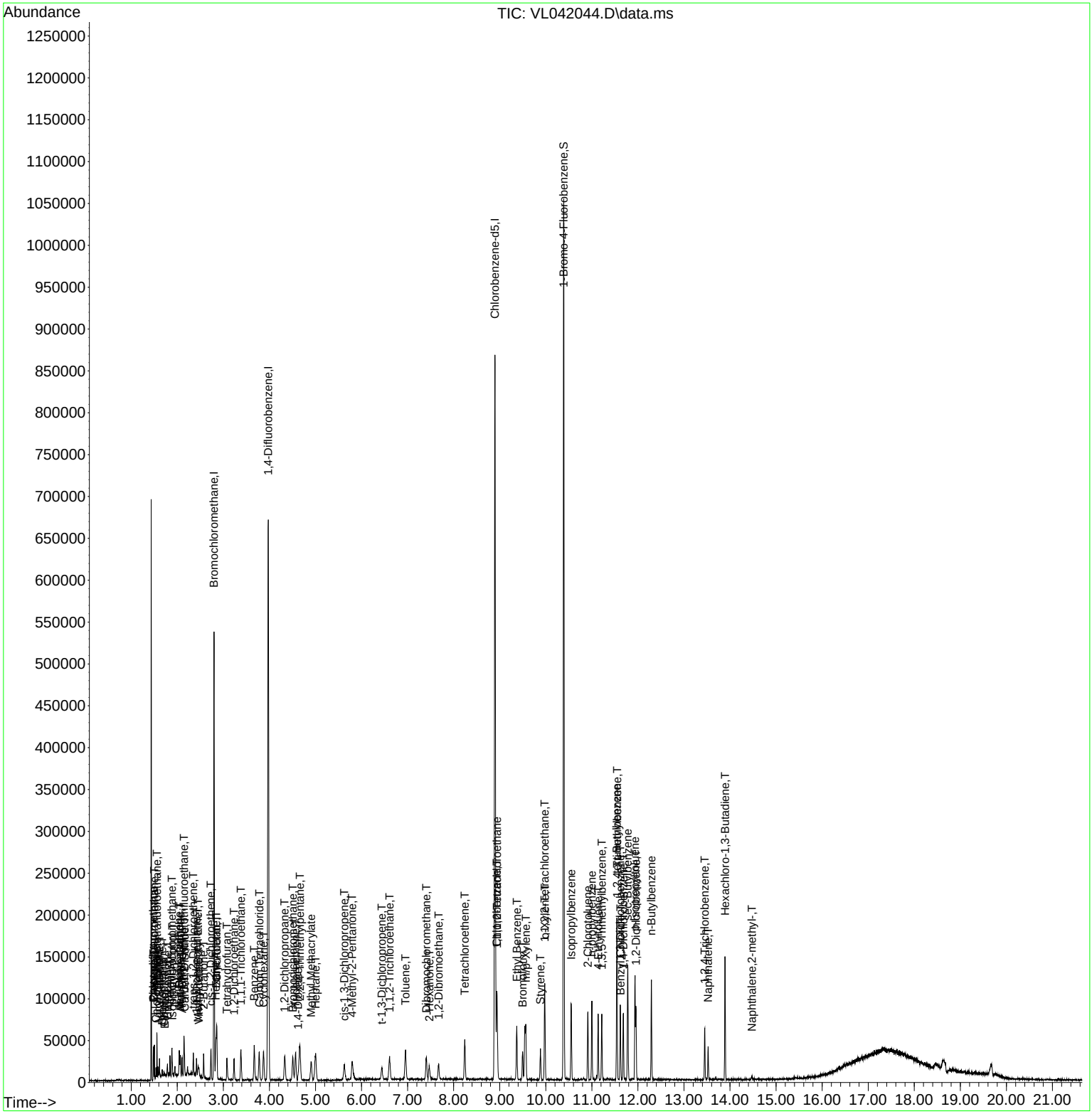
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

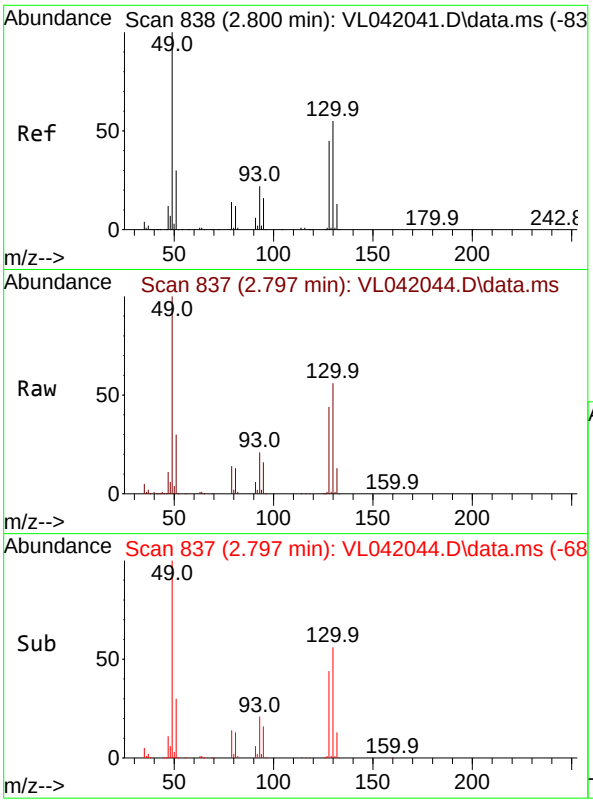
Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

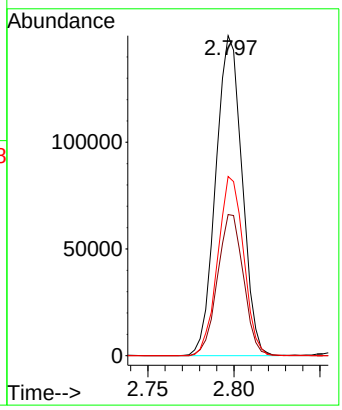




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 49 Resp: 15964

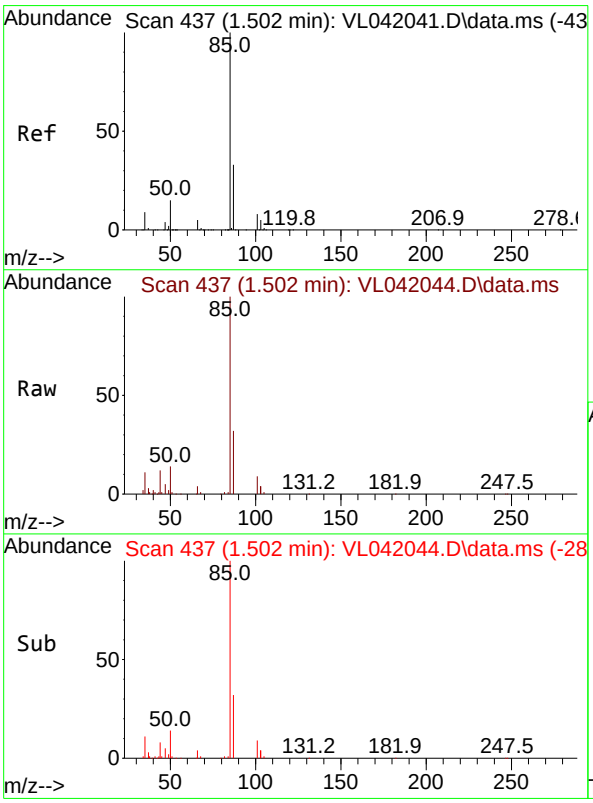
Ion	Ratio	Lower	Upper
49	100		
128	43.5	21.6	64.8
130	55.1	27.8	83.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

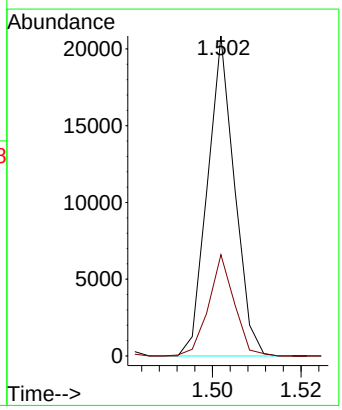
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

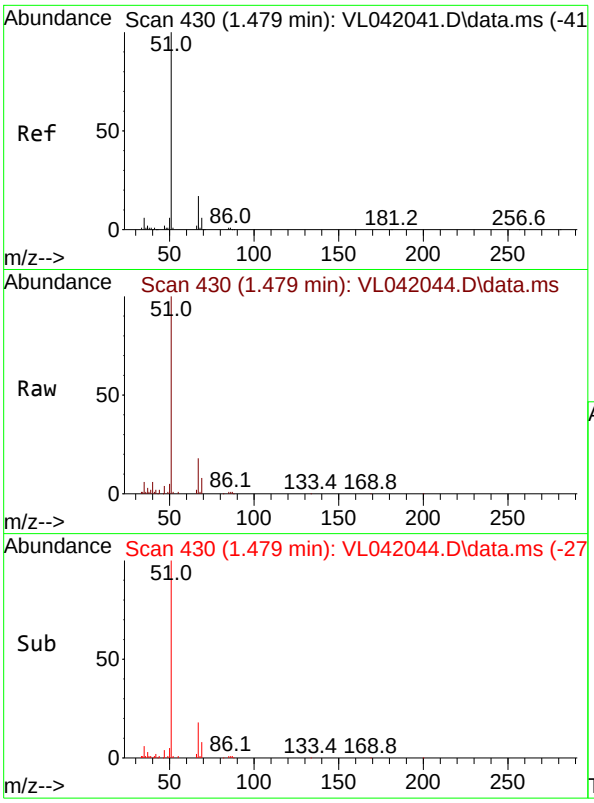


#2
Dichlorodifluoromethane
Concen: 0.322 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 85 Resp: 8852

Ion	Ratio	Lower	Upper
85	100		
87	31.7	26.4	39.6

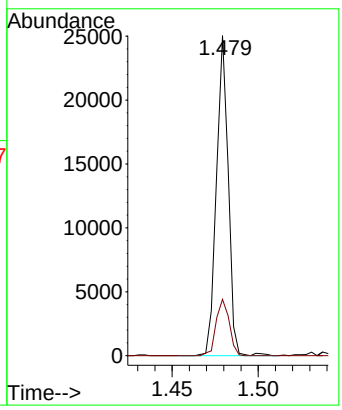




#3
Chlorodifluoromethane
Concen: 0.392 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 51 Resp: 1192

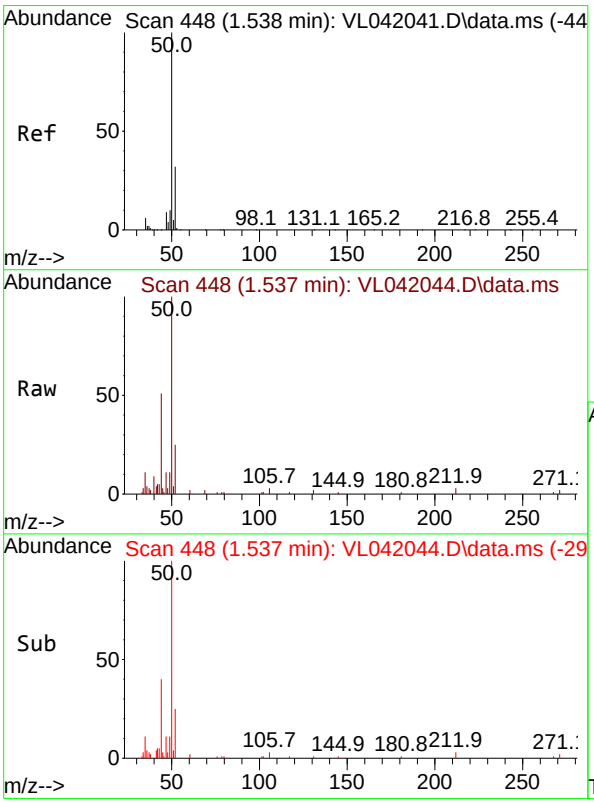
Ion	Ratio	Lower	Upper
51	100		
67	19.6	13.7	20.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

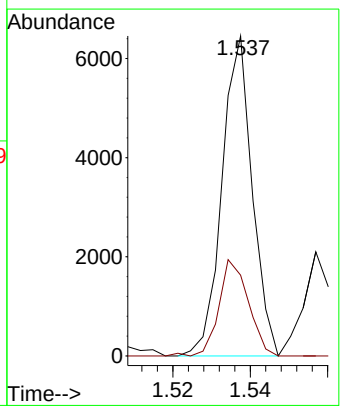
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

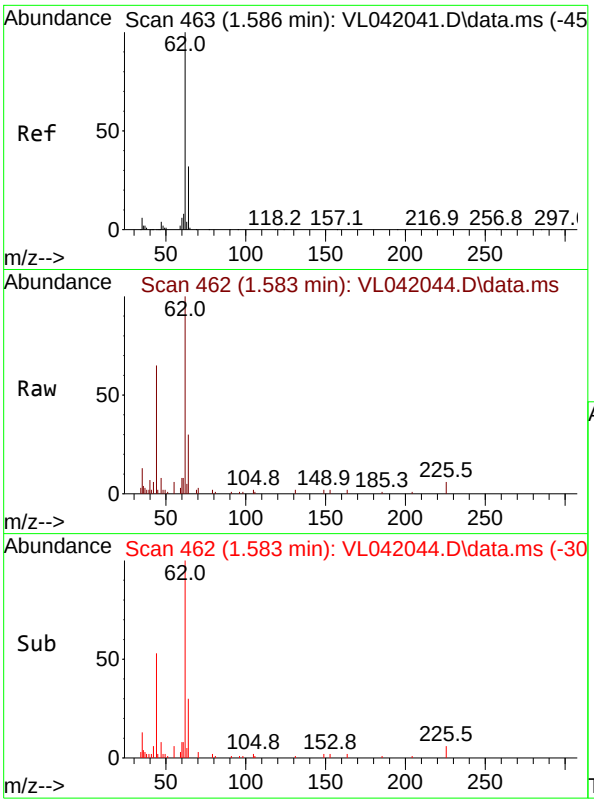


#4
Chloromethane
Concen: 0.327 ppbv
RT: 1.537 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 50 Resp: 3497

Ion	Ratio	Lower	Upper
50	100		
52	25.3	25.4	38.0#

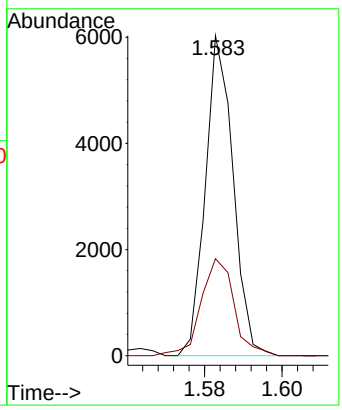




#5
Vinyl Chloride
Concen: 0.235 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 62 Resp: 300

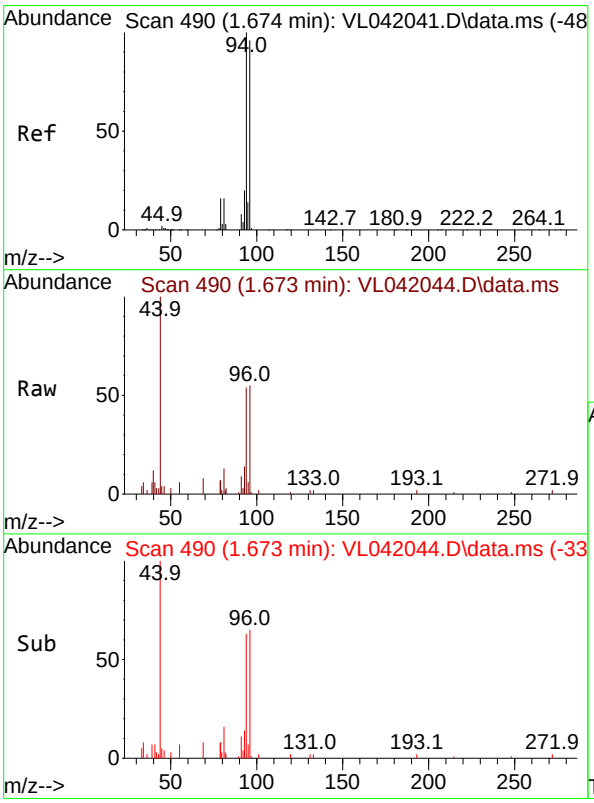
Ion	Ratio	Lower	Upper
62	100		
64	30.3	25.3	37.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

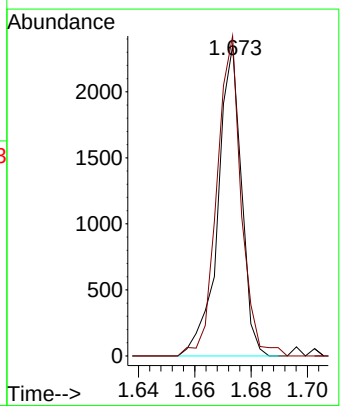
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

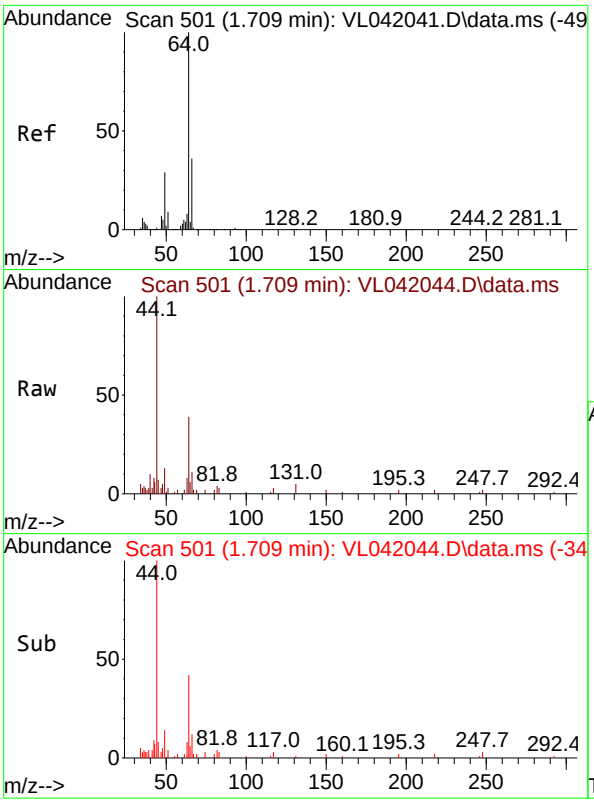


#6
Bromomethane
Concen: 0.275 ppbv
RT: 1.673 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 94 Resp: 1359

Ion	Ratio	Lower	Upper
94	100		
96	103.2	76.5	114.7

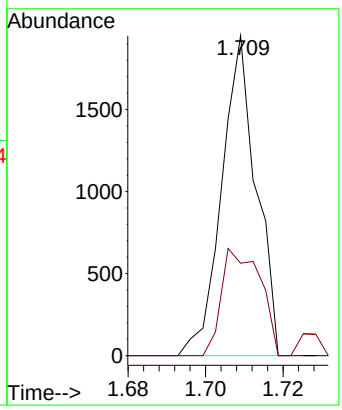




#7
Chloroethane
Concen: 0.290 ppbv
RT: 1.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 64 Resp: 120

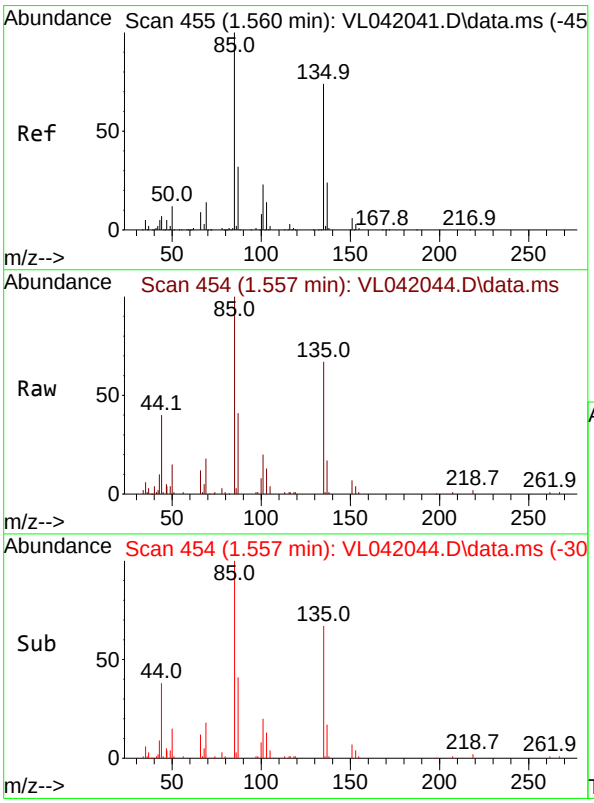
Ion	Ratio	Lower	Upper
64	100		
66	28.9	28.4	42.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

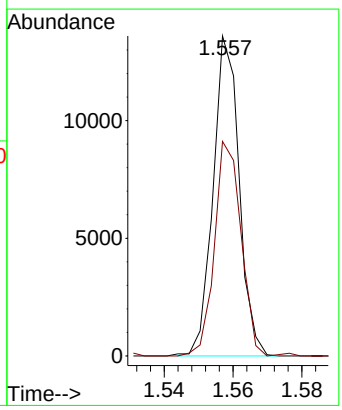
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

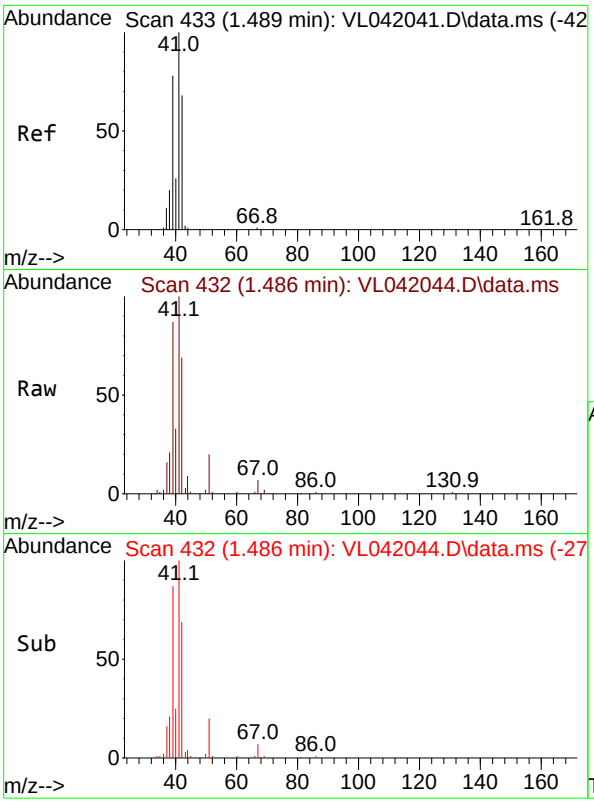


#8
Dichlorotetrafluoroethane
Concen: 0.295 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 85 Resp: 7123

Ion	Ratio	Lower	Upper
85	100		
135	69.0	54.6	81.8

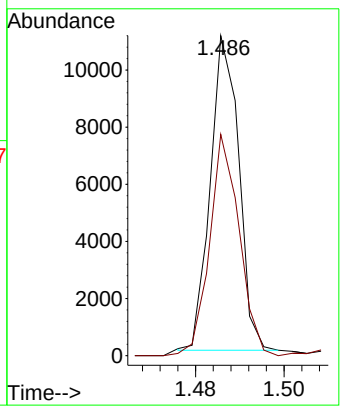




#9
Propene
Concen: 0.374 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 41 Resp: 490

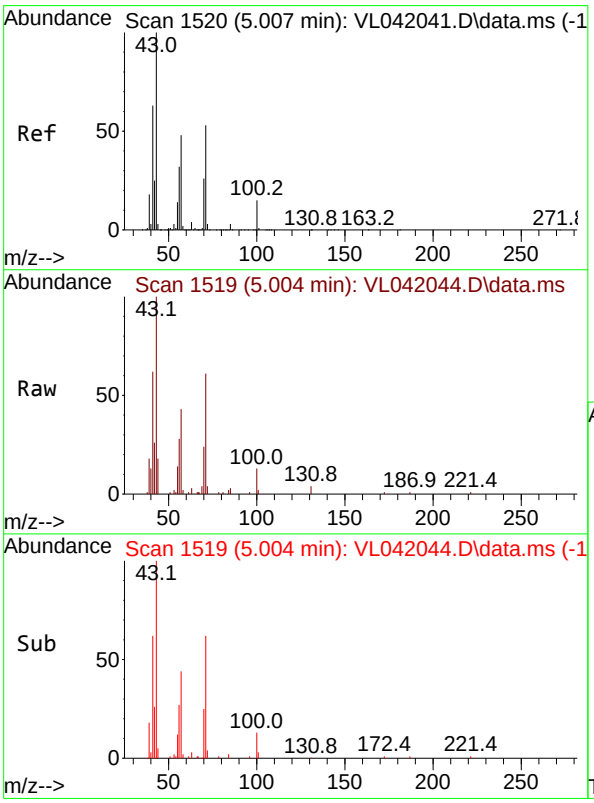
Ion	Ratio	Lower	Upper
41	100		
42	74.6	55.8	83.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

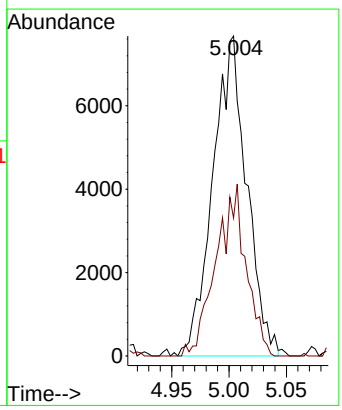
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

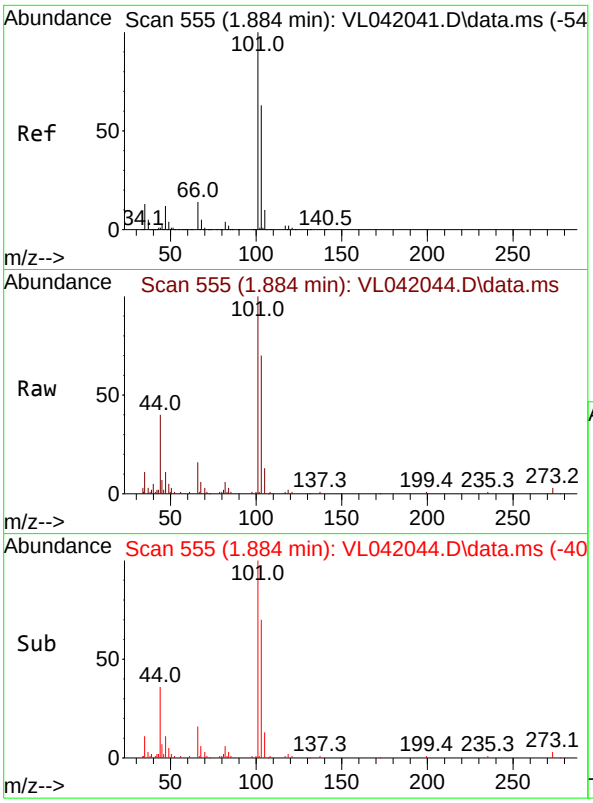


#10
Heptane
Concen: 0.432 ppbv
RT: 5.004 min Scan# 1519
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 15731

Ion	Ratio	Lower	Upper
43	100		
57	47.7	39.4	59.0

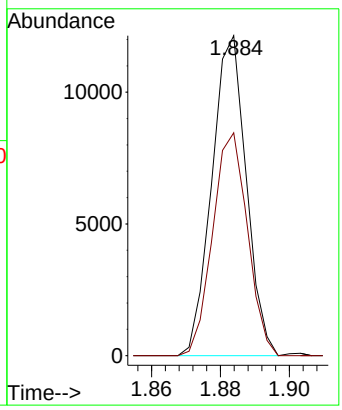




#11
Trichlorofluoromethane
Concen: 0.305 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:101 Resp: 842

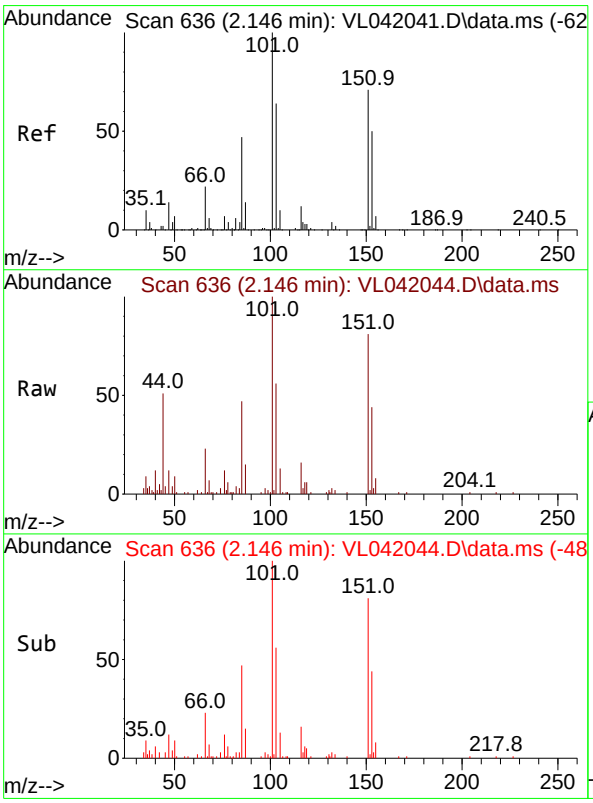
Ion	Ratio	Lower	Upper
101	100		
103	69.6	50.6	75.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

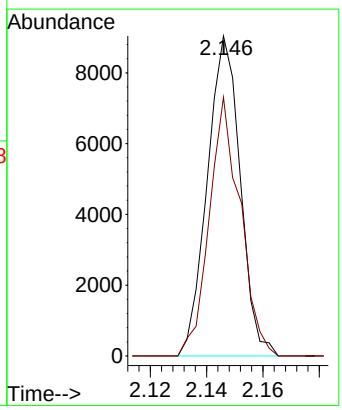
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

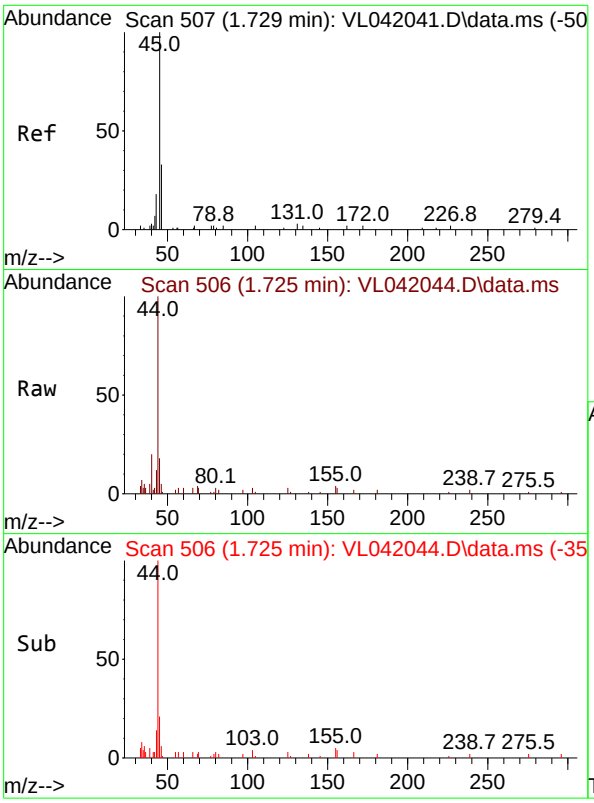


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.340 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:101 Resp: 7336

Ion	Ratio	Lower	Upper
101	100		
151	76.2	62.6	94.0

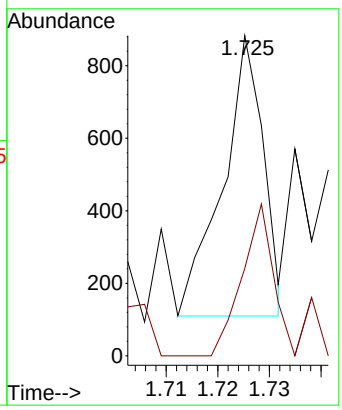




#13
Ethanol
Concen: 0.288 ppbv
RT: 1.725 min Scan# 5(
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 45 Resp: 42(

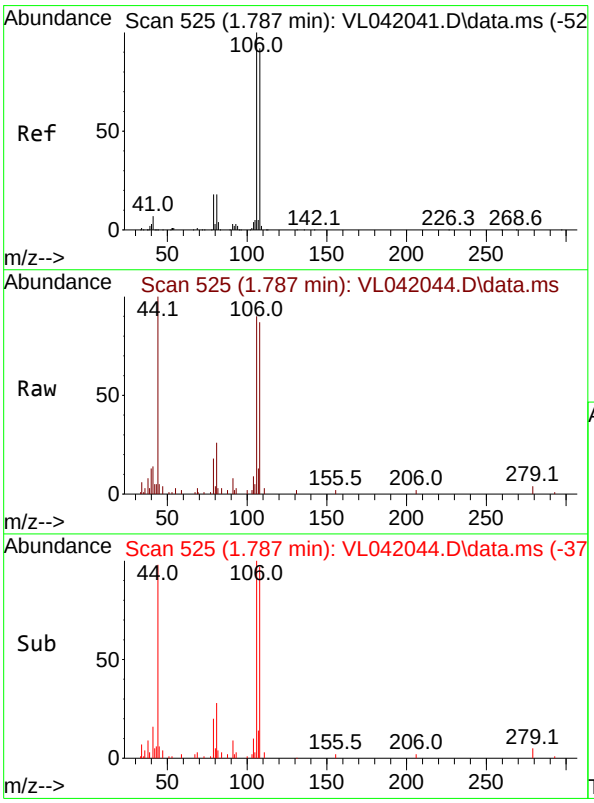
Ion	Ratio	Lower	Upper
45	100		
46	58.9	17.1	68.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

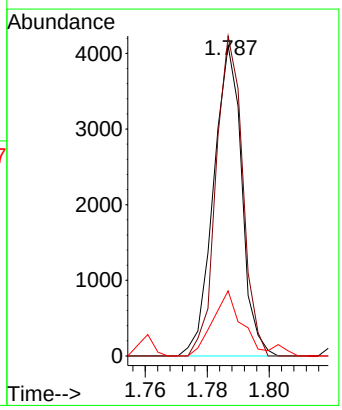
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

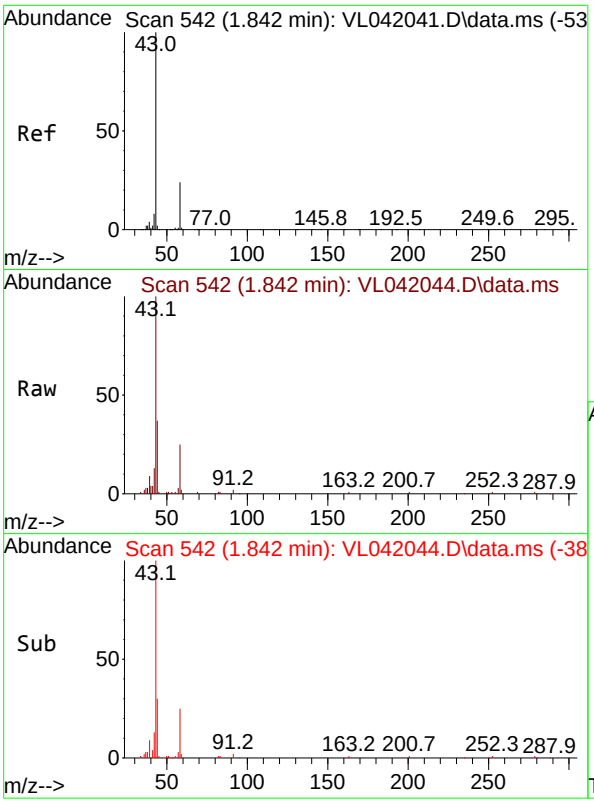


#14
Bromoethene
Concen: 0.323 ppbv
RT: 1.787 min Scan# 525
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:108 Resp: 2598

Ion	Ratio	Lower	Upper
108	100		
106	96.8	85.4	128.0
79	27.9	16.5	24.7#

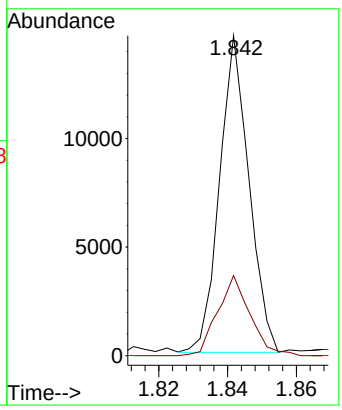




#15
Acetone
Concen: 0.328 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 865

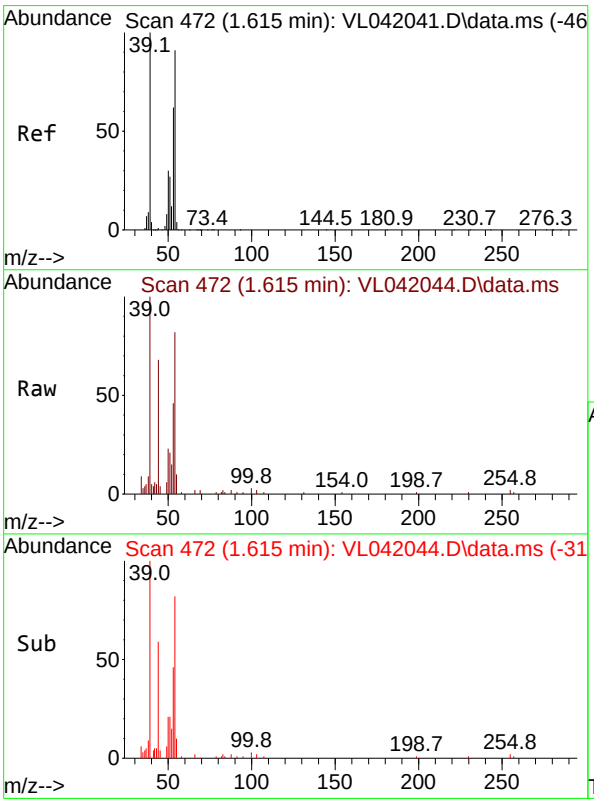
Ion	Ratio	Lower	Upper
43	100		
58	27.9	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

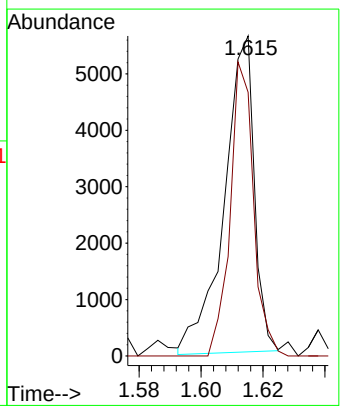
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

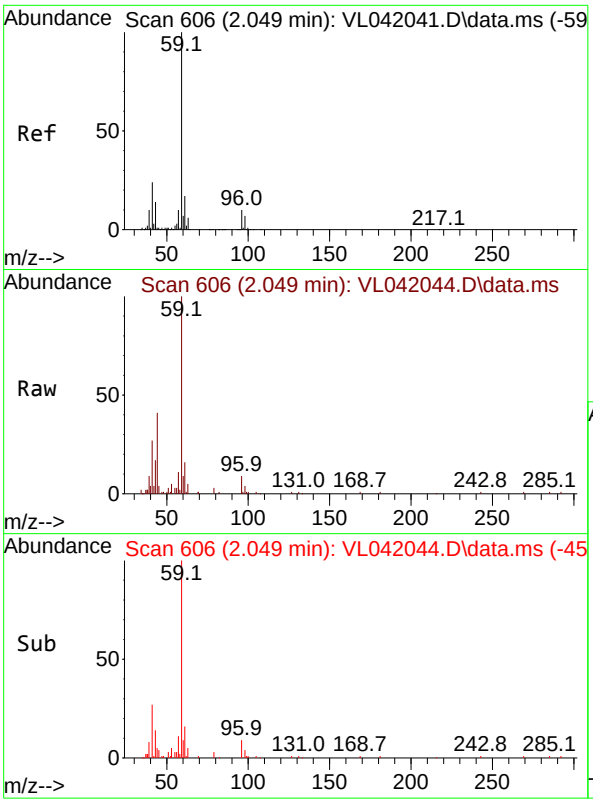


#16
1,3-Butadiene
Concen: 0.304 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 39 Resp: 3803

Ion	Ratio	Lower	Upper
39	100		
54	71.9	59.6	89.4

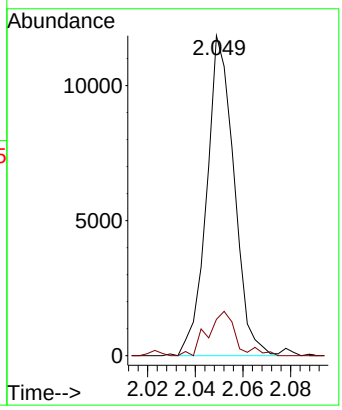




#17
tert-Butyl alcohol
Concen: 0.290 ppbv
RT: 2.049 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 59 Resp: 944

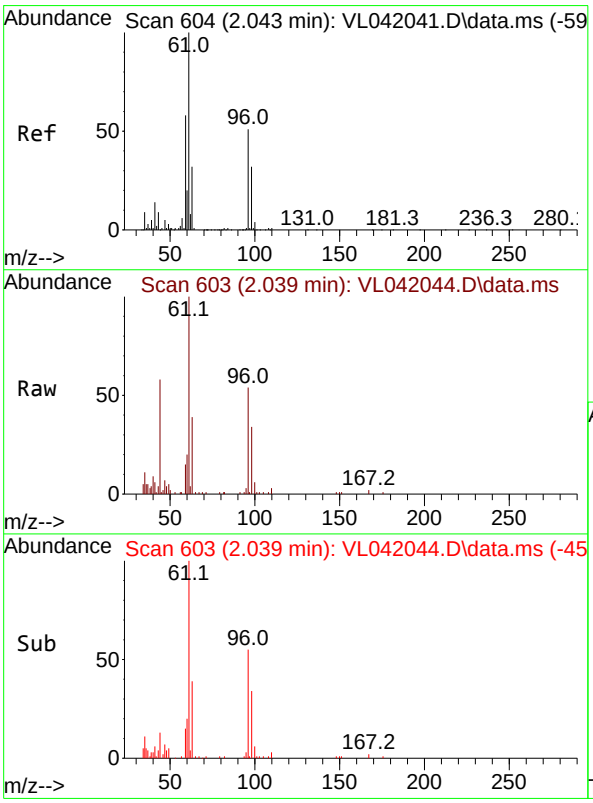
Ion	Ratio	Lower	Upper
59	100		
57	15.3	9.3	13.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

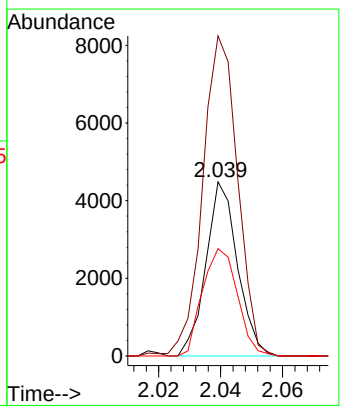
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

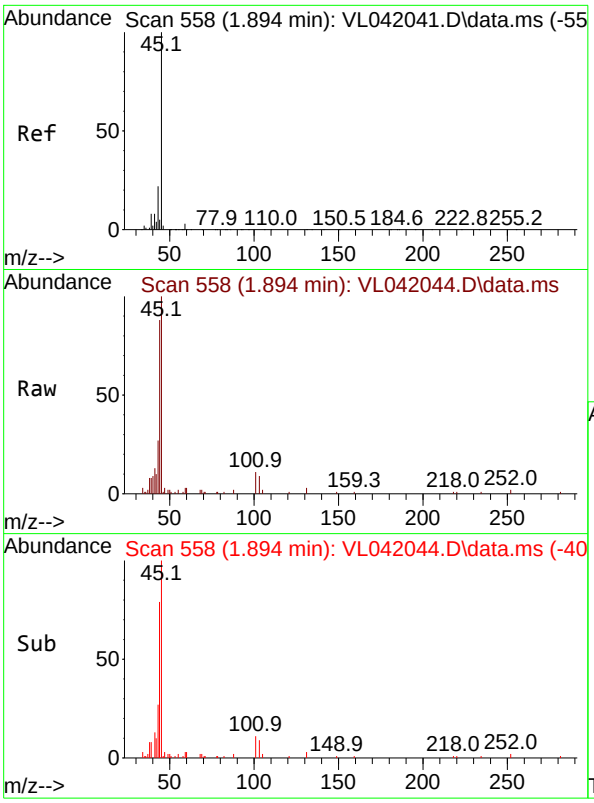


#18
1,1-Dichloroethene
Concen: 0.308 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 96 Resp: 3173

Ion	Ratio	Lower	Upper
96	100		
61	183.8	156.0	234.0
98	61.6	49.4	74.2

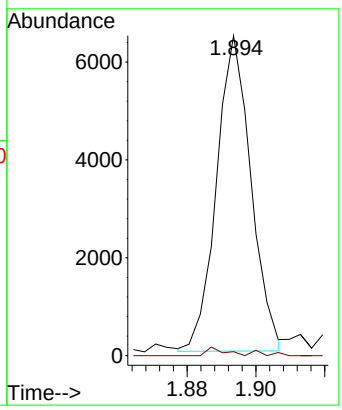




#19
Isopropyl Alcohol
Concen: 0.303 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 45 Resp: 448

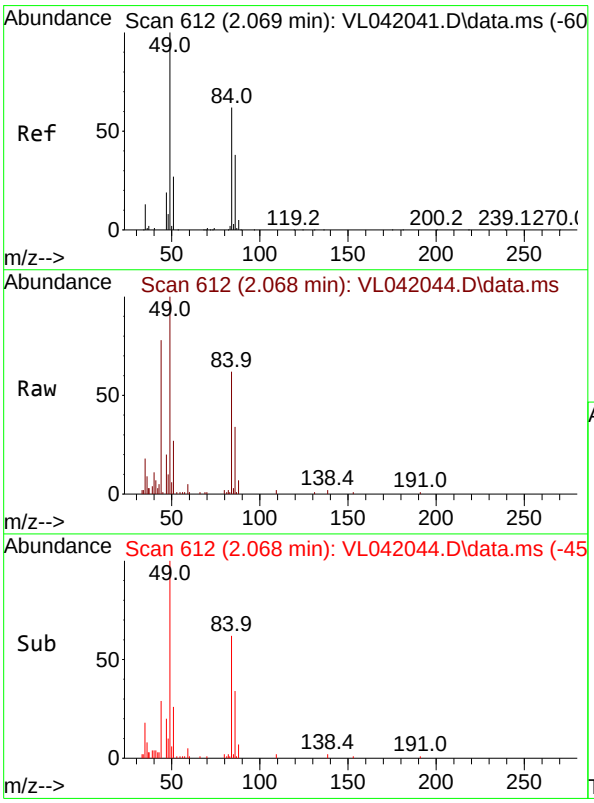
Ion	Ratio	Lower	Upper
45	100		
58	0.0	35.3	52.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

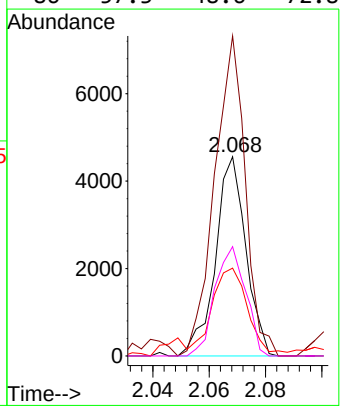
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

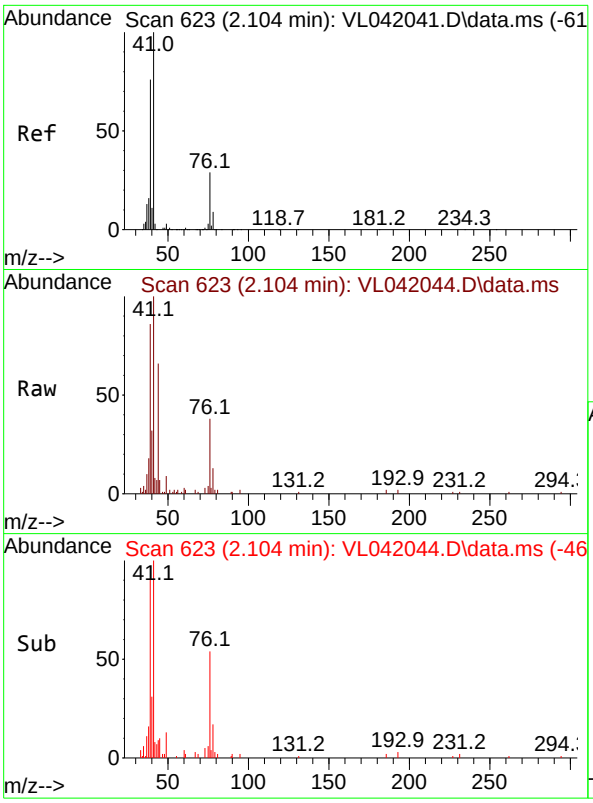


#20
Methylene Chloride
Concen: 0.345 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 84 Resp: 3423

Ion	Ratio	Lower	Upper
84	100		
49	160.7	130.0	195.0
51	41.5	37.4	56.0
86	57.3	48.6	72.8

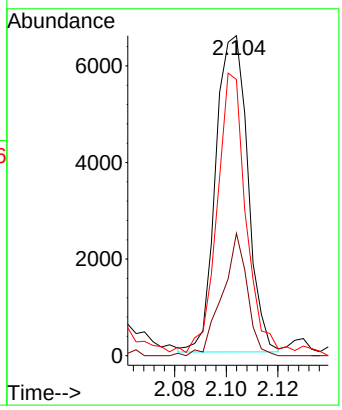




#21
Allyl Chloride
Concen: 0.296 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 41 Resp: 564

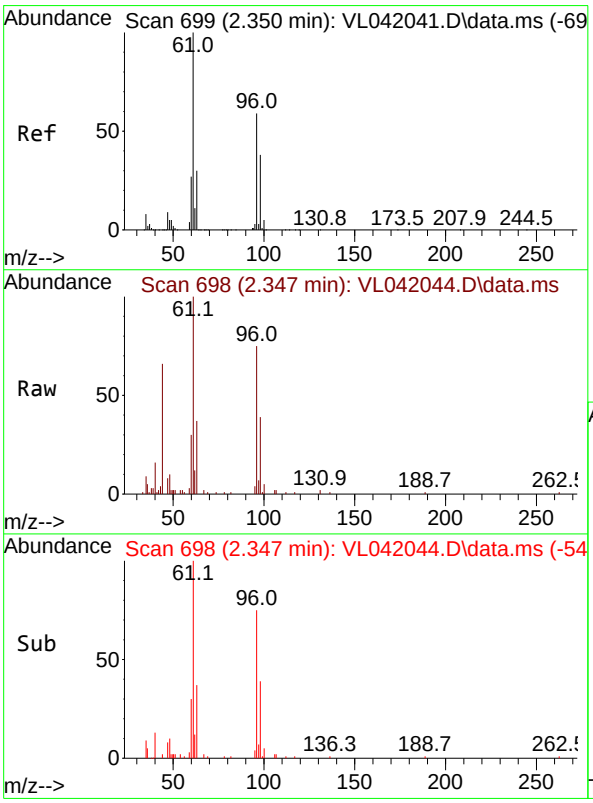
Ion	Ratio	Lower	Upper
41	100		
76	30.2	23.8	35.6
39	79.8	63.8	95.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

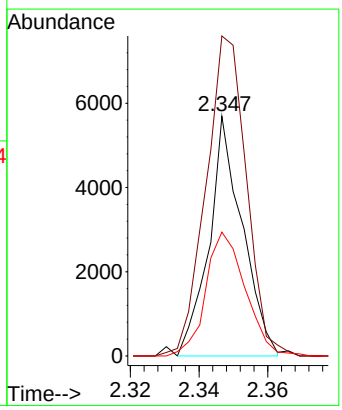
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

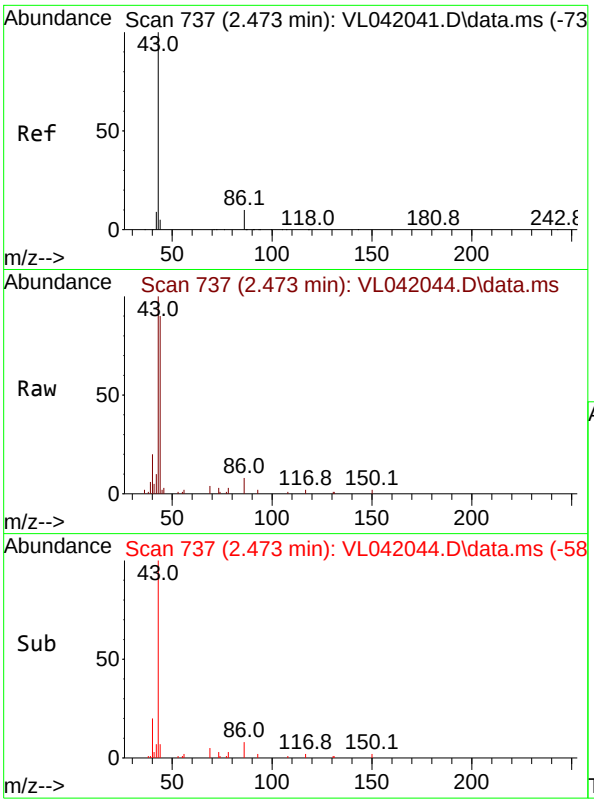


#22
trans-1,2-Dichloroethene
Concen: 0.343 ppbv m
RT: 2.347 min Scan# 698
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 96 Resp: 3838

Ion	Ratio	Lower	Upper
96	100		
61	133.5	136.6	205.0#
98	51.7	51.8	77.6#

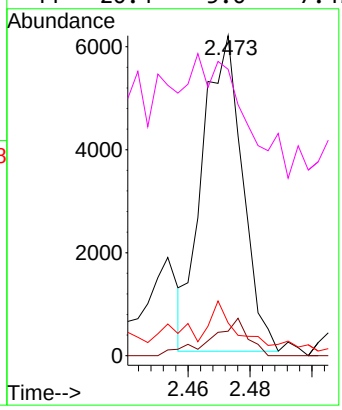




#23
Vinyl Acetate
Concen: 0.385 ppbv
RT: 2.473 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 549

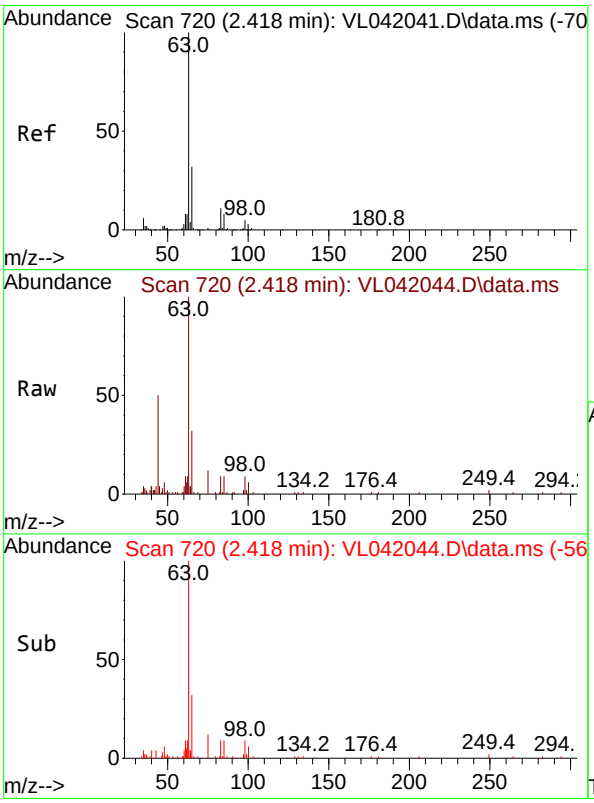
Ion	Ratio	Lower	Upper
43	100		
86	7.8	7.0	10.4
42	6.8	7.6	11.4#
44	20.4	5.0	7.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

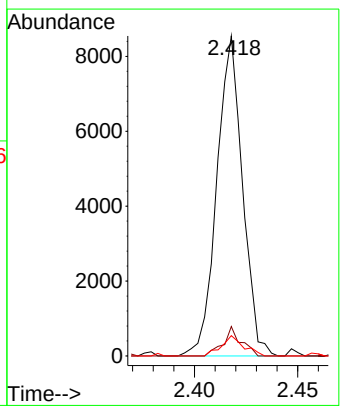
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

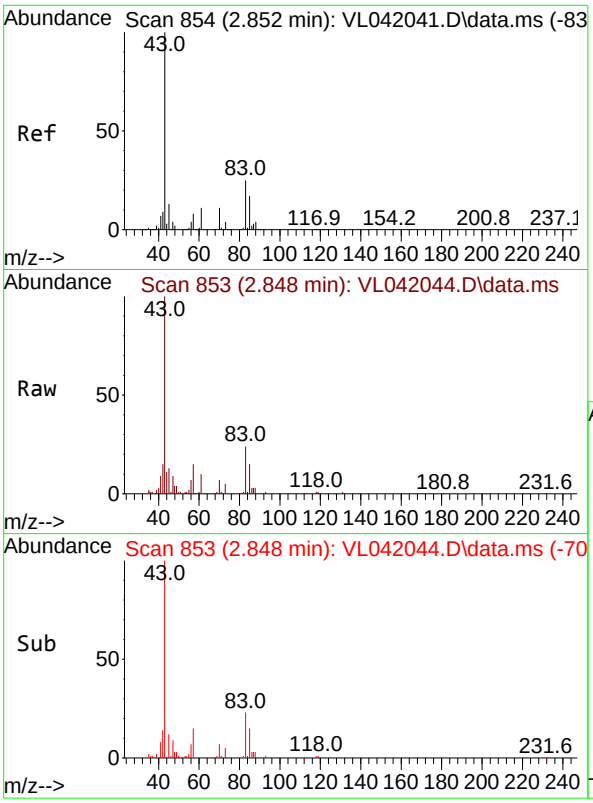


#24
1,1-Dichloroethane
Concen: 0.326 ppbv
RT: 2.418 min Scan# 720
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 63 Resp: 7396

Ion	Ratio	Lower	Upper
63	100		
98	9.2	2.4	7.2#
100	6.4	1.7	5.0#

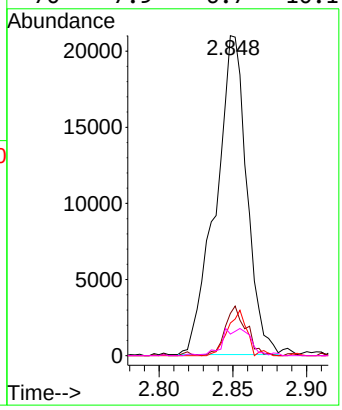




#25
Ethyl Acetate
Concen: 0.423 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 3059

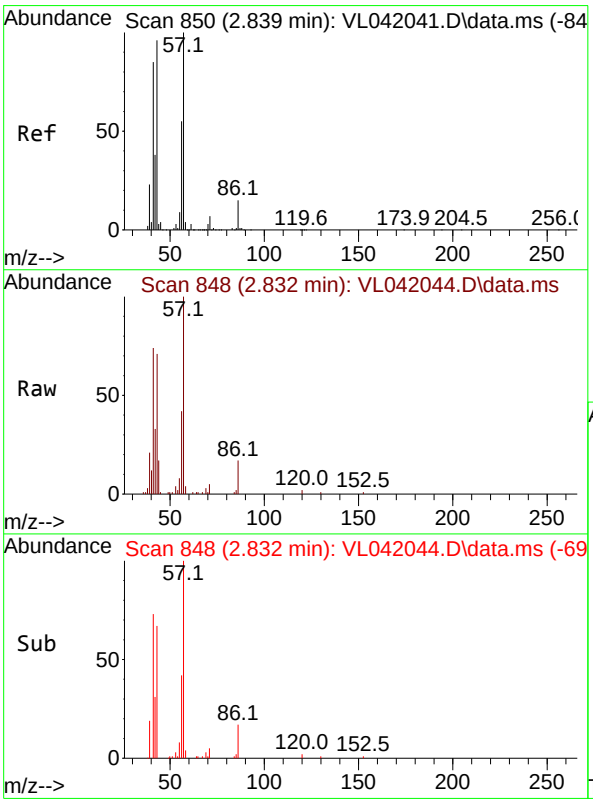
Ion	Ratio	Lower	Upper
43	100		
45	11.3	8.1	12.1
61	9.2	7.2	10.8
70	7.9	6.7	10.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

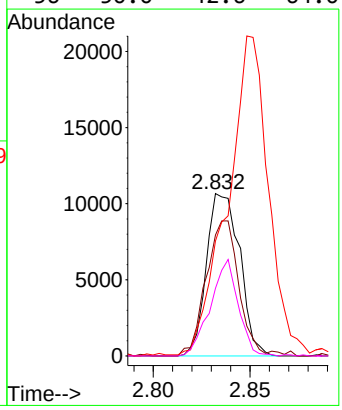
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

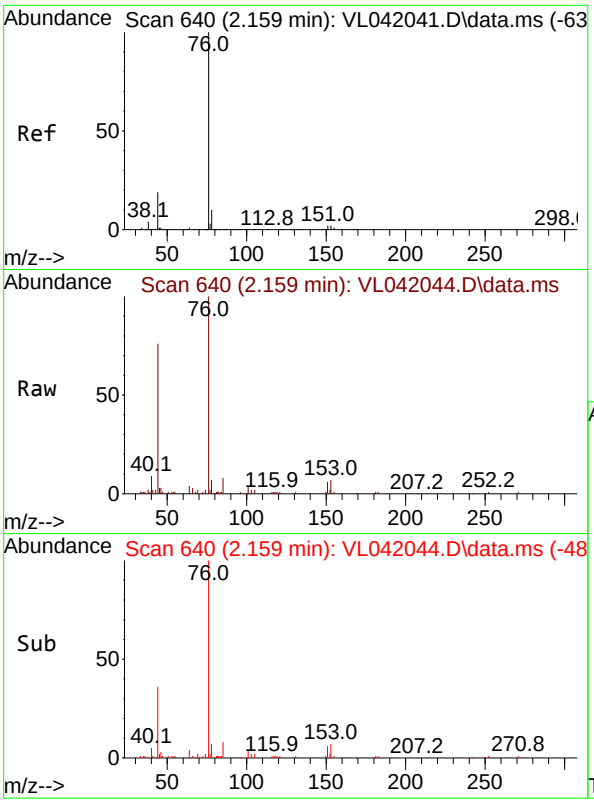


#26
Hexane
Concen: 0.439 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 57 Resp: 12739

Ion	Ratio	Lower	Upper
57	100		
41	83.6	70.6	106.0
43	250.3	199.4	299.0
56	50.0	42.6	64.0





#27
Carbon Disulfide
Concen: 0.305 ppbv
RT: 2.159 min Scan# 64
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

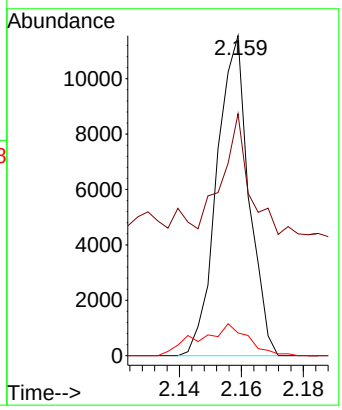
Tgt Ion: 76 Resp: 831

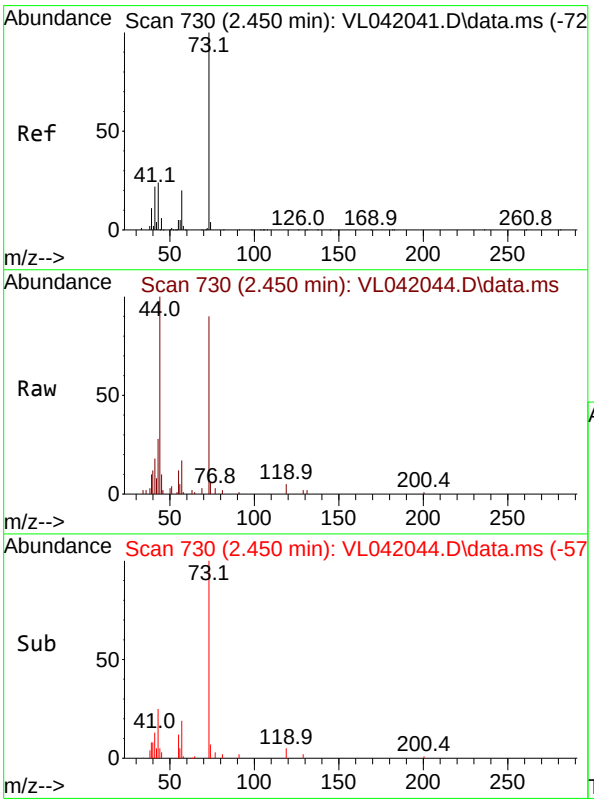
Ion	Ratio	Lower	Upper
76	100		
44	79.6	16.2	24.2#
78	15.2	9.4	14.0#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

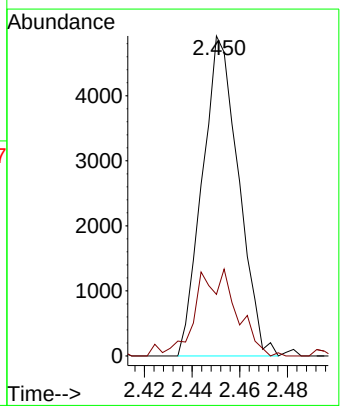


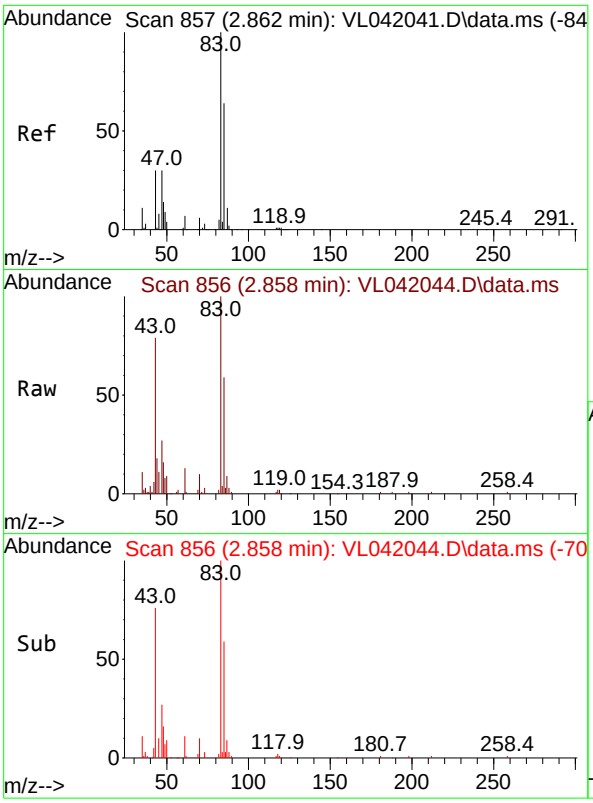


#28
Methyl tert-Butyl Ether
Concen: 0.292 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 73 Resp: 5185

Ion	Ratio	Lower	Upper
73	100		
57	31.8	17.7	26.5#

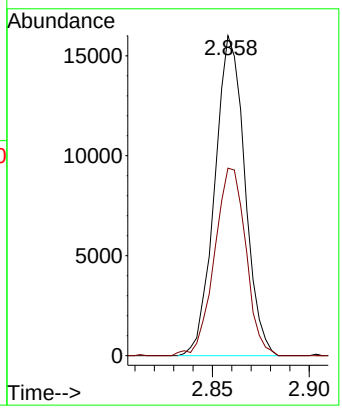




#29
Chloroform
Concen: 0.411 ppbv
RT: 2.858 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 83 Resp: 1727

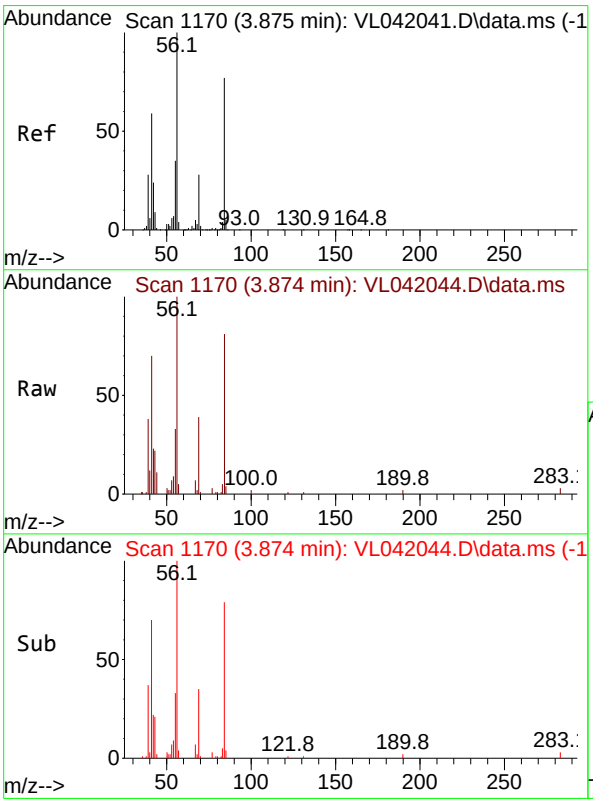
Ion	Ratio	Lower	Upper
83	100		
85	58.6	51.2	76.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

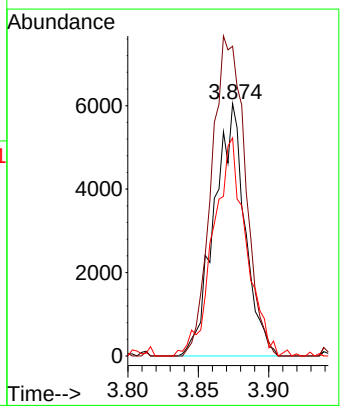
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

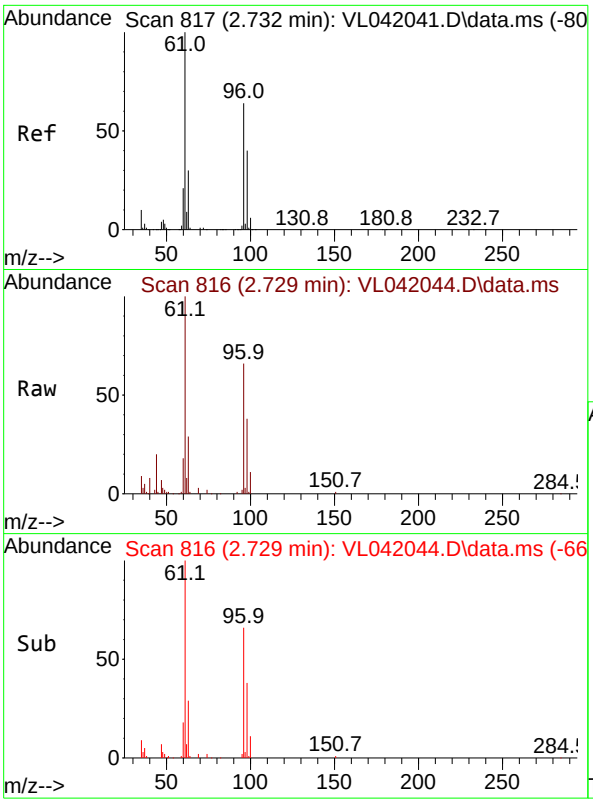


#30
Cyclohexane
Concen: 0.391 ppbv
RT: 3.874 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 84 Resp: 9209

Ion	Ratio	Lower	Upper
84	100		
56	138.5	101.5	152.3
41	92.4	62.6	93.8

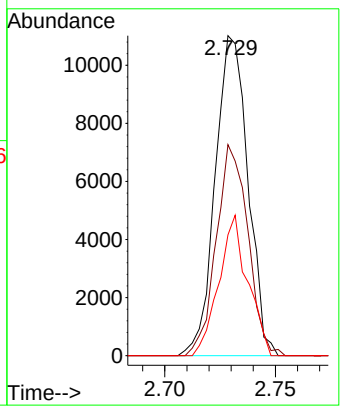




#31
cis-1,2-Dichloroethene
Concen: 0.395 ppbv
RT: 2.729 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 61 Resp: 1134

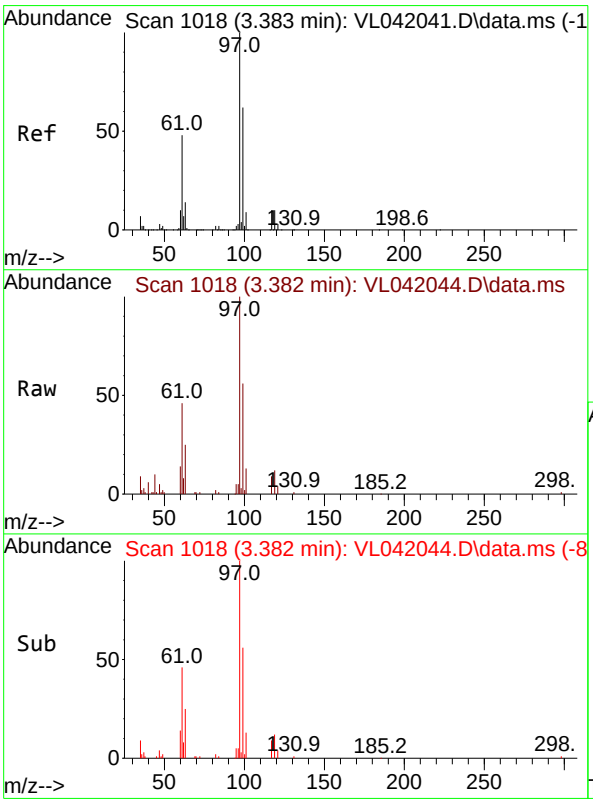
Ion	Ratio	Lower	Upper
61	100		
96	66.0	51.5	77.3
98	37.7	32.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

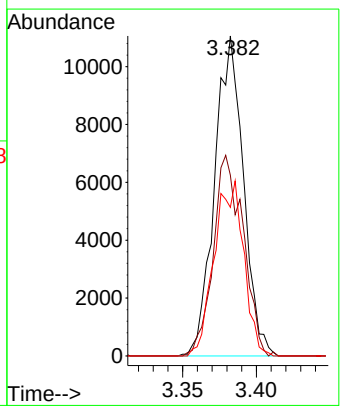
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

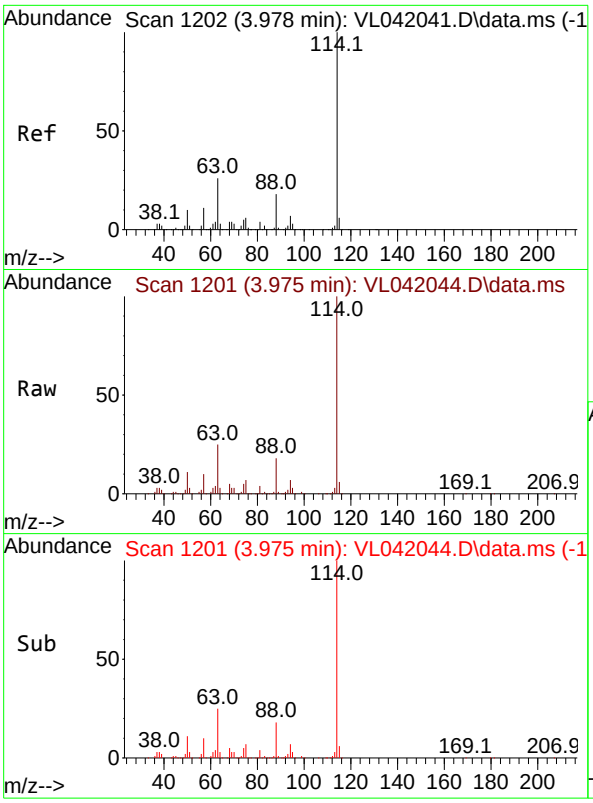


#32
1,1,1-Trichloroethane
Concen: 0.322 ppbv
RT: 3.382 min Scan# 1018
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 97 Resp: 15027

Ion	Ratio	Lower	Upper
97	100		
99	65.0	49.8	74.6
61	55.9	38.9	58.3

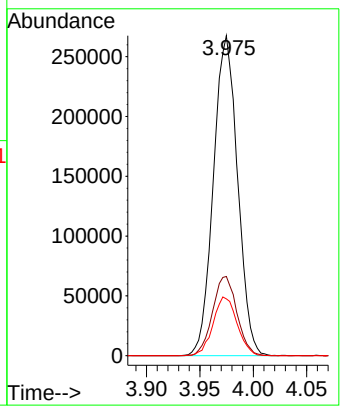




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:114 Resp: 42134

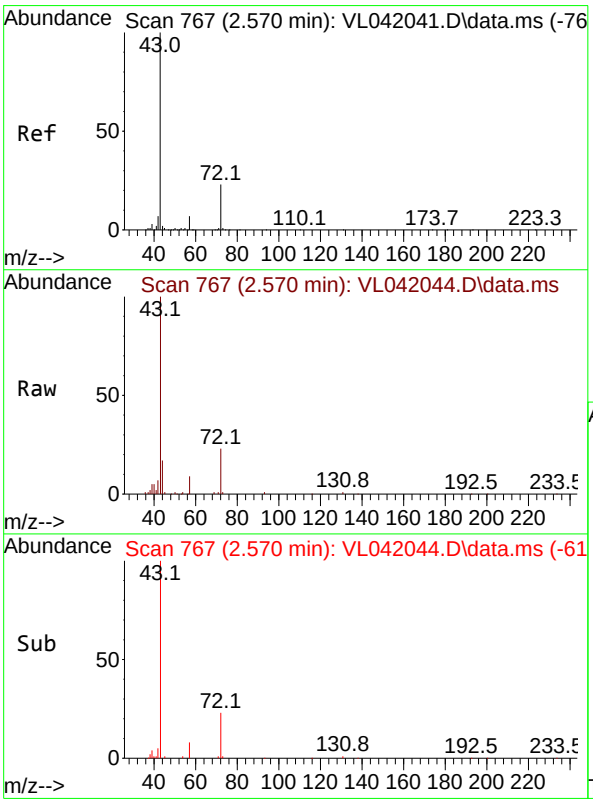
Ion	Ratio	Lower	Upper
114	100		
63	24.9	20.1	30.1
88	18.3	14.3	21.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

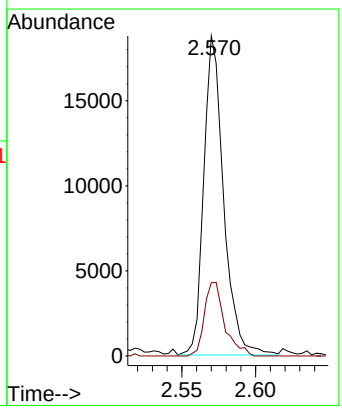
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

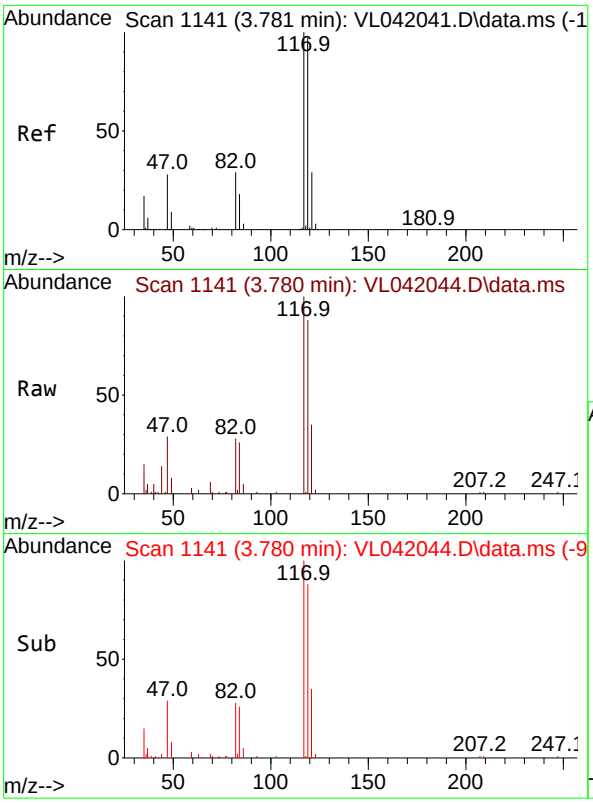


#34
2-Butanone
Concen: 0.484 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 17555

Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.5	27.7

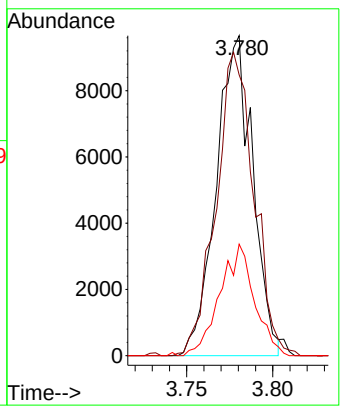




#35
Carbon Tetrachloride
Concen: 0.348 ppbv
RT: 3.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:117 Resp: 1422

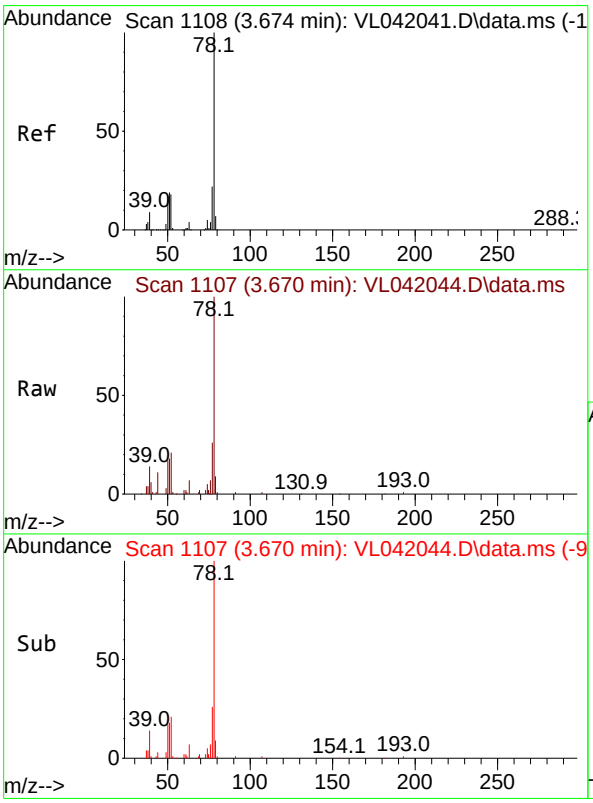
Ion	Ratio	Lower	Upper
117	100		
119	87.0	77.8	116.8
121	34.8	23.4	35.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

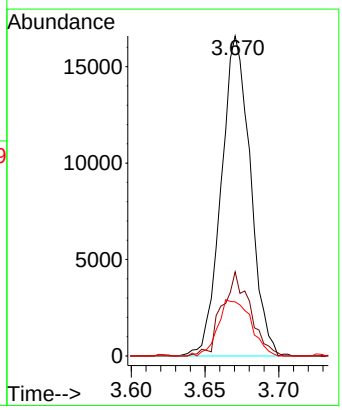
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

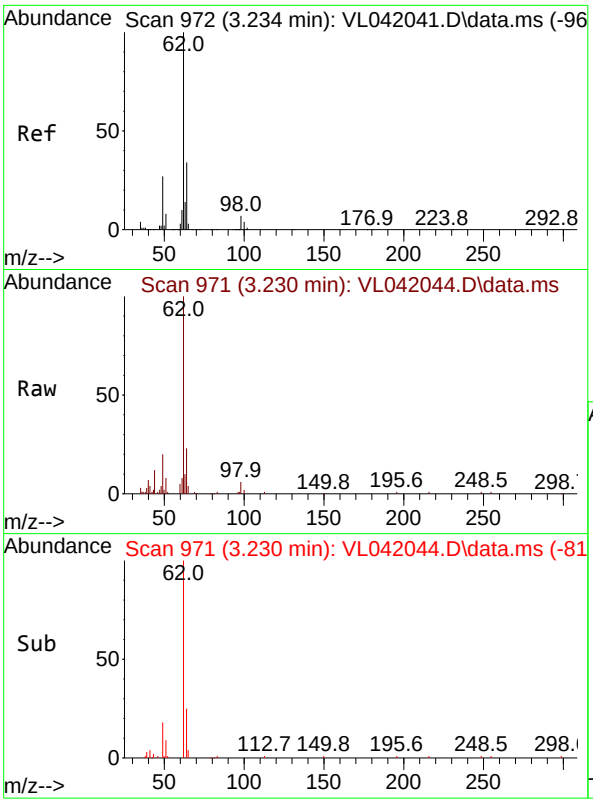


#36
Benzene
Concen: 0.445 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 78 Resp: 22728

Ion	Ratio	Lower	Upper
78	100		
77	26.3	17.7	26.5
50	16.9	13.9	20.9

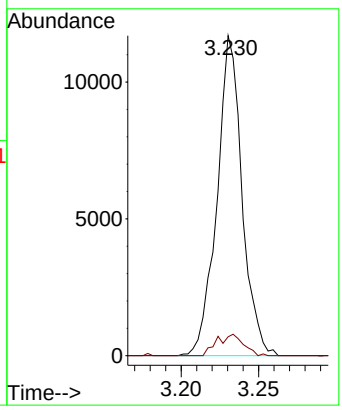




#37
1,2-Dichloroethane
Concen: 0.452 ppbv
RT: 3.230 min Scan# 9
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 62 Resp: 1314

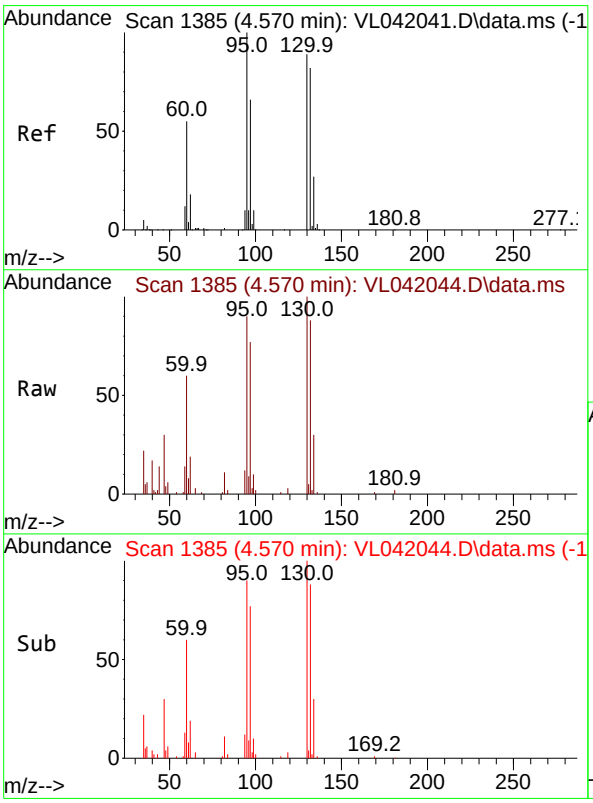
Ion	Ratio	Lower	Upper
62	100		
98	7.1	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

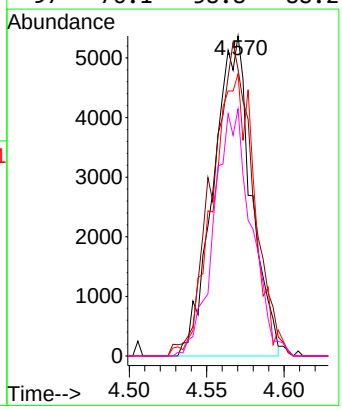
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

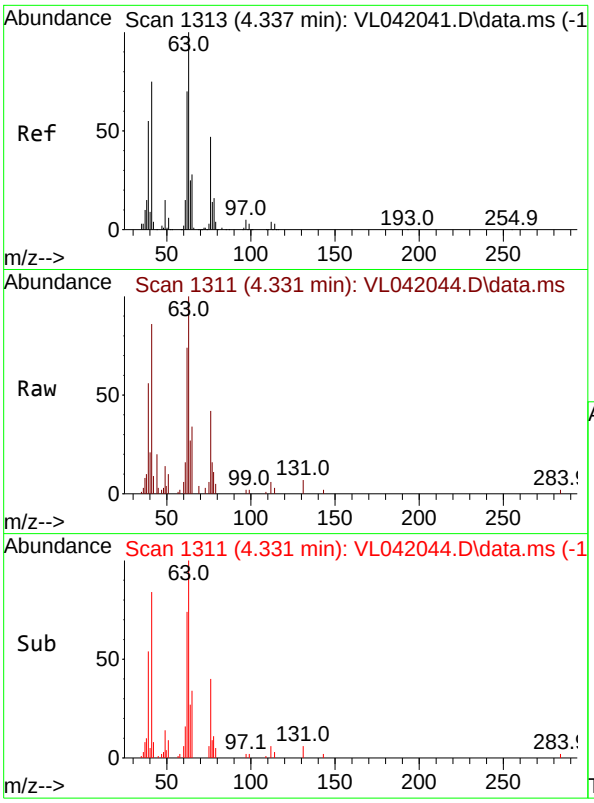


#38
Trichloroethene
Concen: 0.440 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:130 Resp: 9115

Ion	Ratio	Lower	Upper
130	100		
95	86.1	89.5	134.3#
132	85.3	73.8	110.6
97	76.1	58.8	88.2

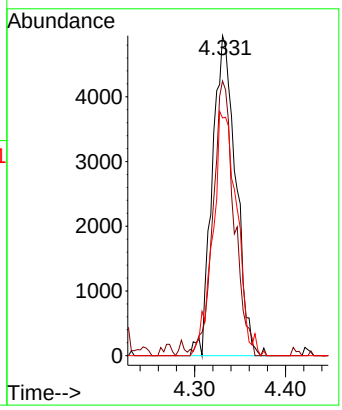




#39
1,2-Dichloropropane
Concen: 0.474 ppbv m
RT: 4.331 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 63 Resp: 887

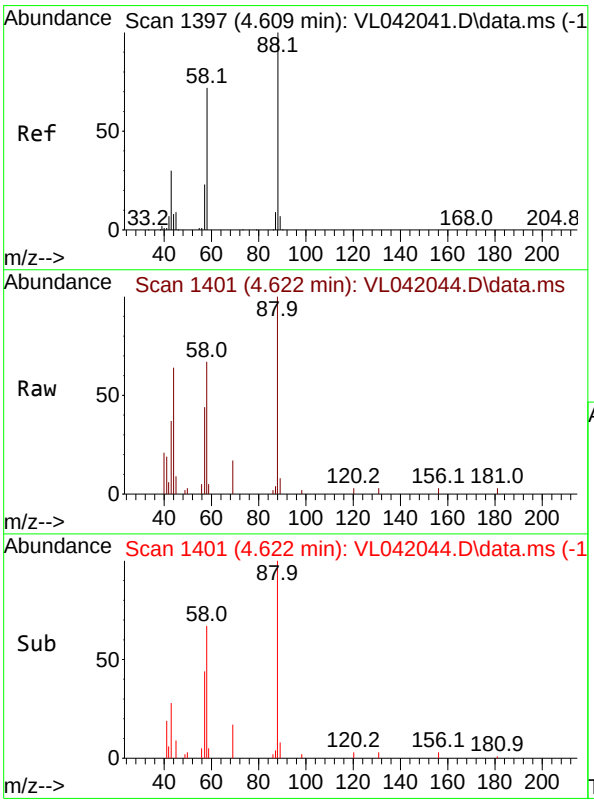
Ion	Ratio	Lower	Upper
63	100		
41	85.9	60.1	90.1
62	74.3	55.8	83.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

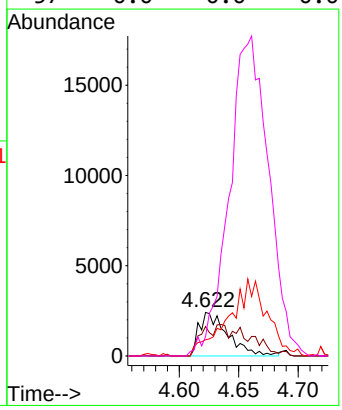
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

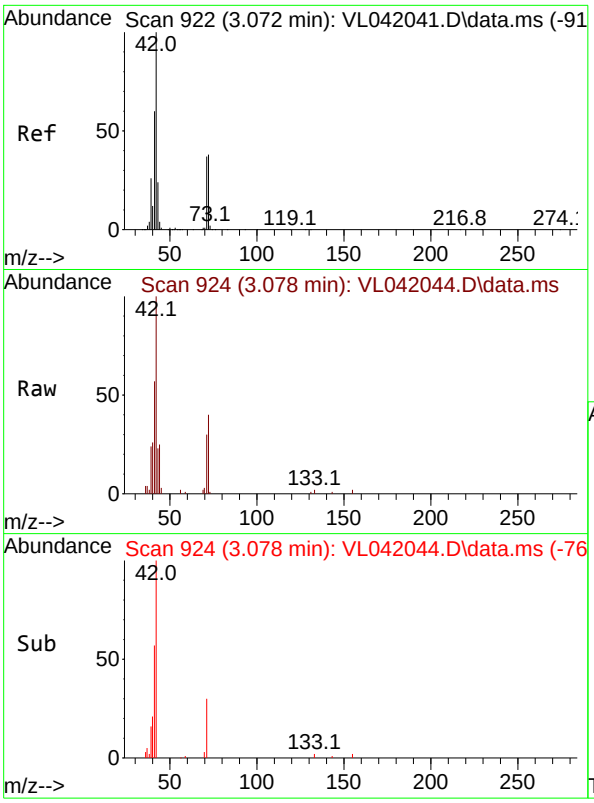


#40
1,4-Dioxane
Concen: 0.416 ppbv m
RT: 4.622 min Scan# 1401
Delta R.T. 0.013 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 88 Resp: 4046

Ion	Ratio	Lower	Upper
88	100		
58	117.8	62.6	94.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0

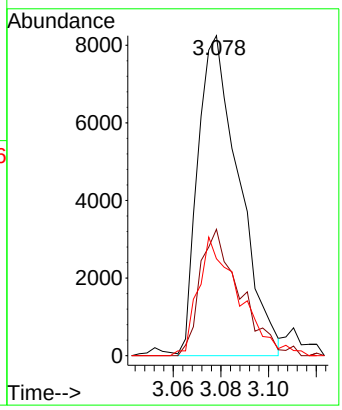




#41
Tetrahydrofuran
Concen: 0.477 ppbv
RT: 3.078 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 42 Resp: 988

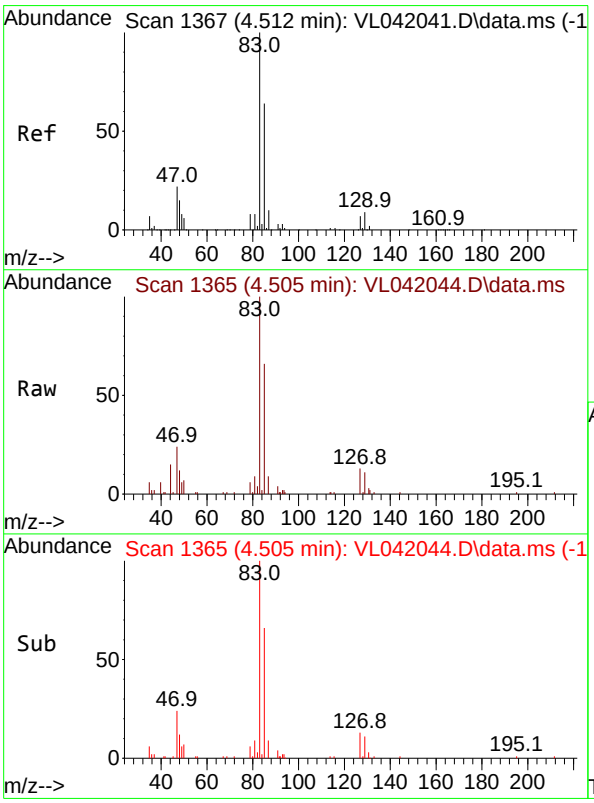
Ion	Ratio	Lower	Upper
42	100		
72	38.7	30.2	45.2
71	37.0	28.2	42.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

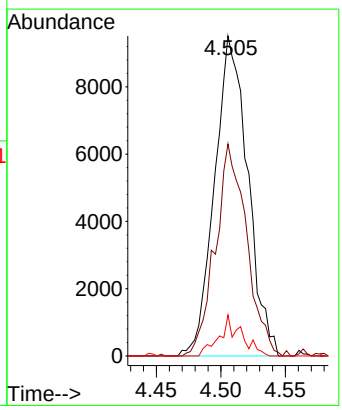
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

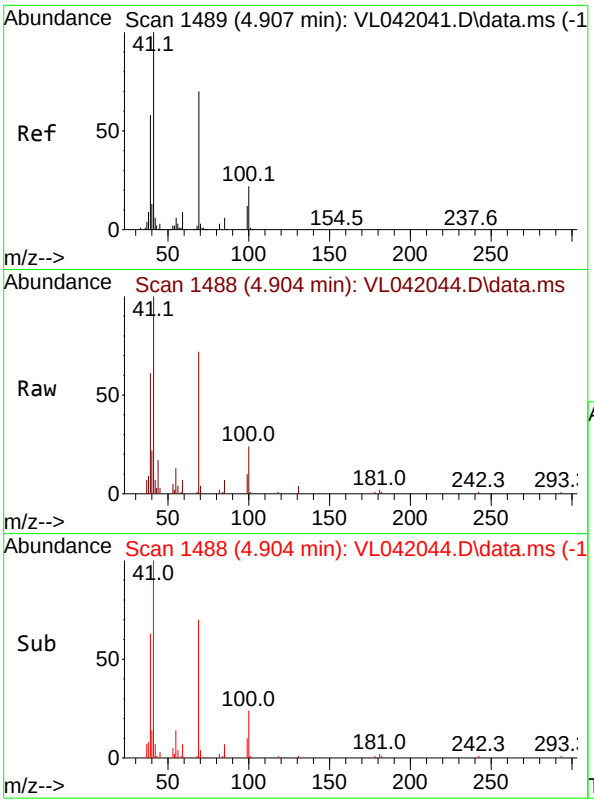


#42
Bromodichloromethane
Concen: 0.431 ppbv
RT: 4.505 min Scan# 1365
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 83 Resp: 16973

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.4	77.2
127	12.8	5.8	8.6#

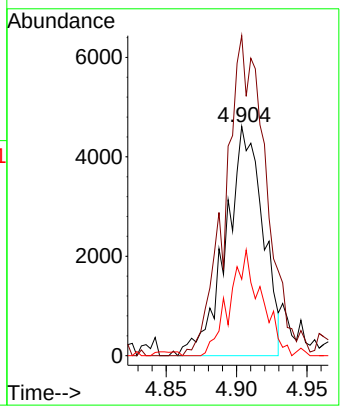




#43
Methyl Methacrylate
Concen: 0.362 ppbv
RT: 4.904 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 69 Resp: 842

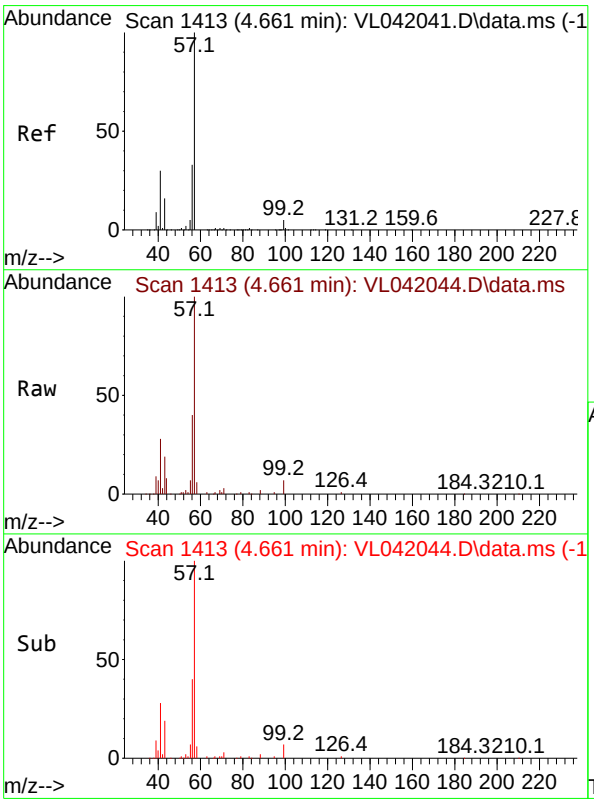
Ion	Ratio	Lower	Upper
69	100		
41	154.6	118.2	177.4
100	40.2	27.0	40.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

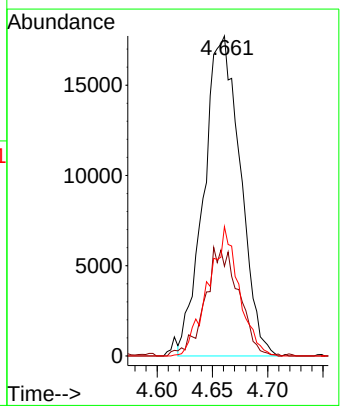
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

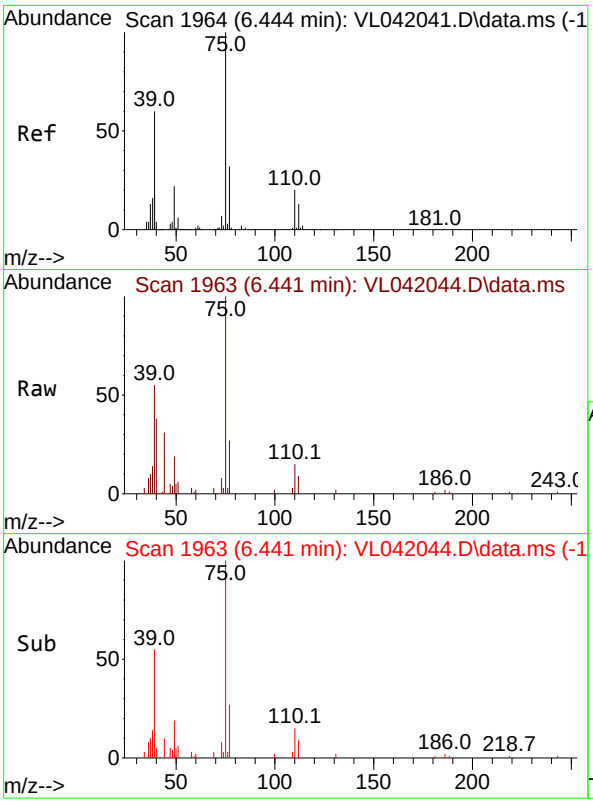


#44
2,2,4-Trimethylpentane
Concen: 0.469 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 57 Resp: 40623

Ion	Ratio	Lower	Upper
57	100		
41	32.0	24.4	36.6
56	34.1	26.5	39.7

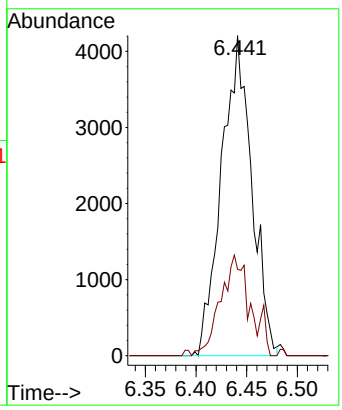




#45
t-1,3-Dichloropropene
Concen: 0.397 ppbv m
RT: 6.441 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 75 Resp: 872

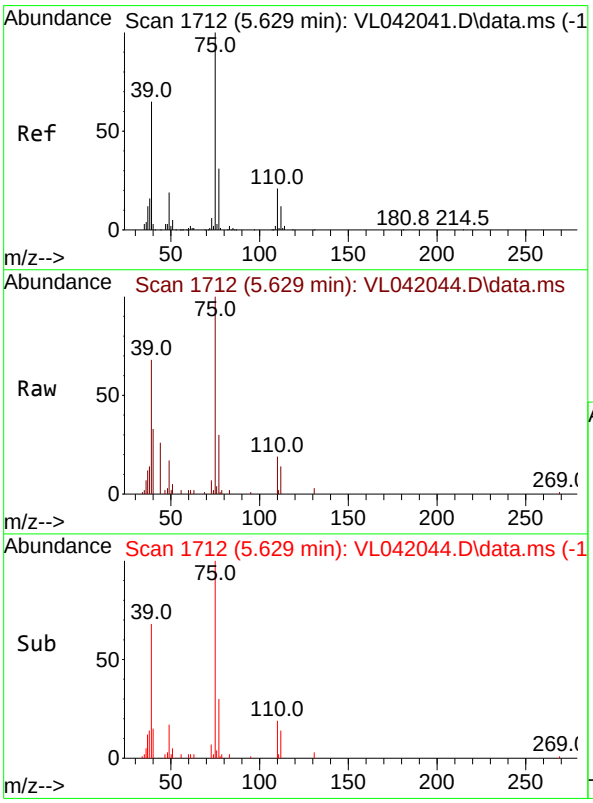
Ion	Ratio	Lower	Upper
75	100		
77	27.0	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

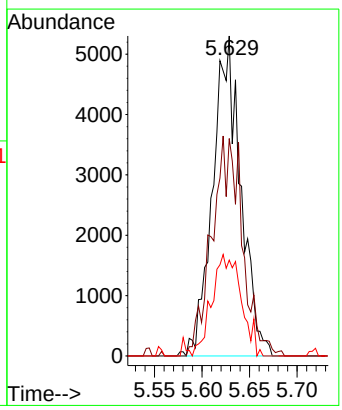
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

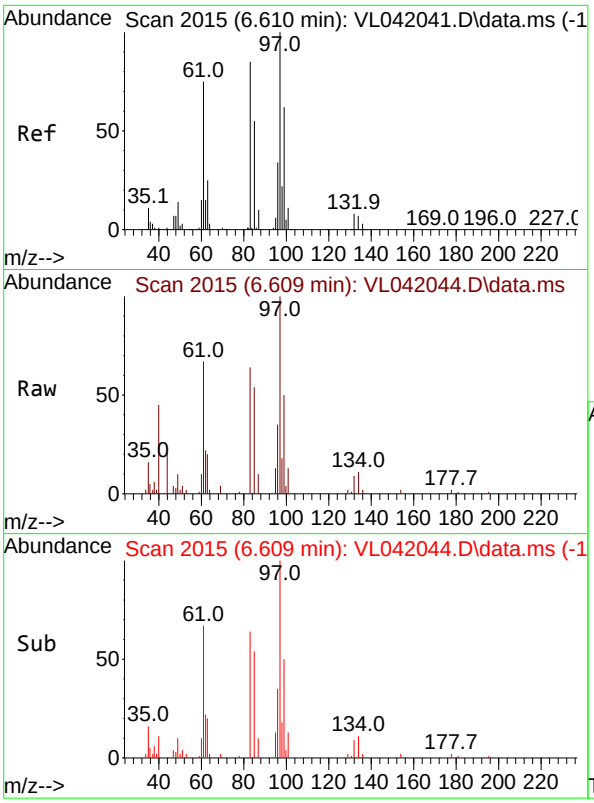


#46
cis-1,3-Dichloropropene
Concen: 0.389 ppbv m
RT: 5.629 min Scan# 1712
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 75 Resp: 10834

Ion	Ratio	Lower	Upper
75	100		
39	68.0	51.9	77.9
77	29.9	24.9	37.3

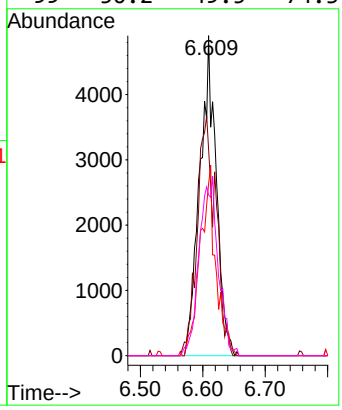




#47
1,1,2-Trichloroethane
Concen: 0.456 ppbv m
RT: 6.609 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 97 Resp: 898

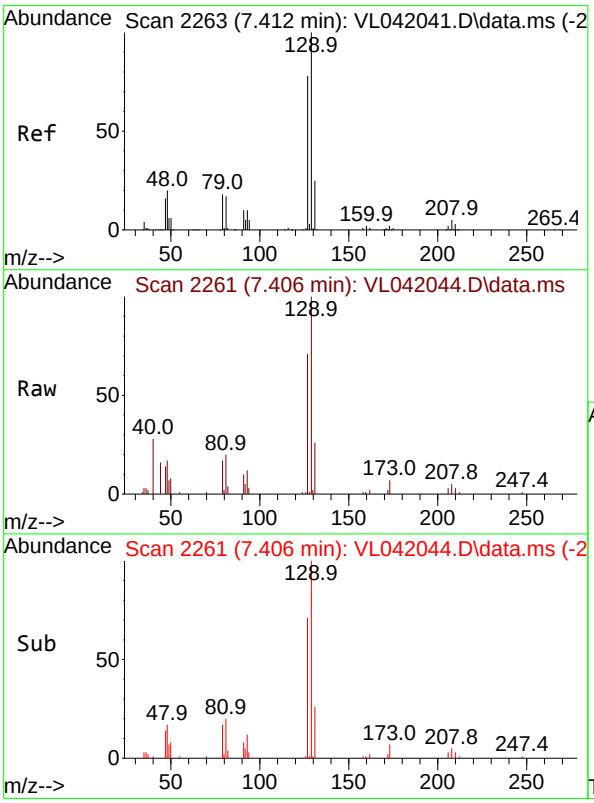
Ion	Ratio	Lower	Upper
97	100		
83	64.5	68.1	102.1
85	53.7	44.0	66.0
99	50.2	49.5	74.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

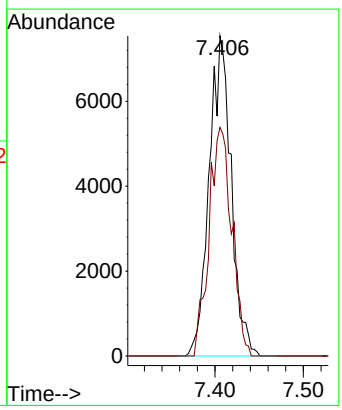
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

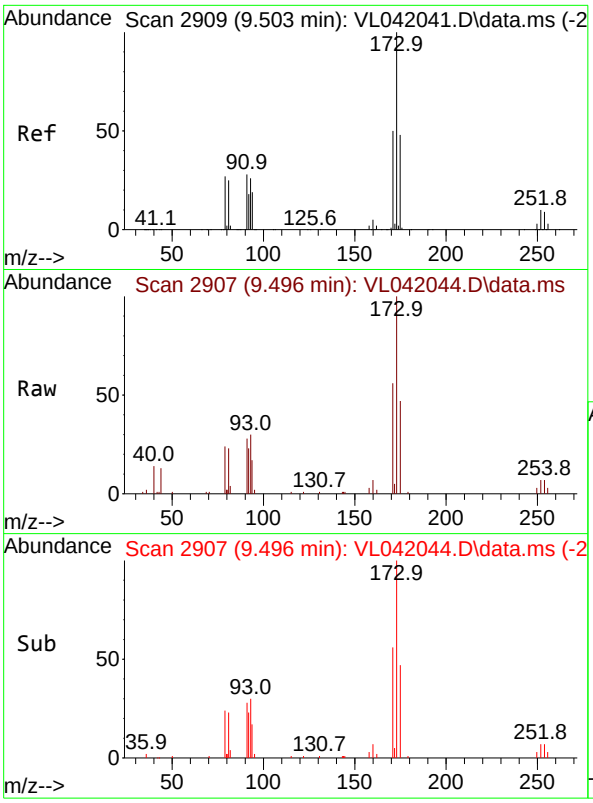


#48
Dibromochloromethane
Concen: 0.395 ppbv m
RT: 7.406 min Scan# 2261
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:129 Resp: 13014

Ion	Ratio	Lower	Upper
129	100		
127	74.1	38.6	115.8

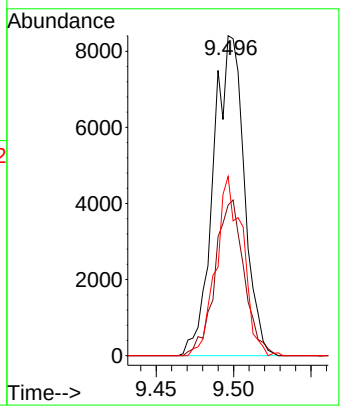




#49
Bromoform
Concen: 0.430 ppbv
RT: 9.496 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:173 Resp: 1164

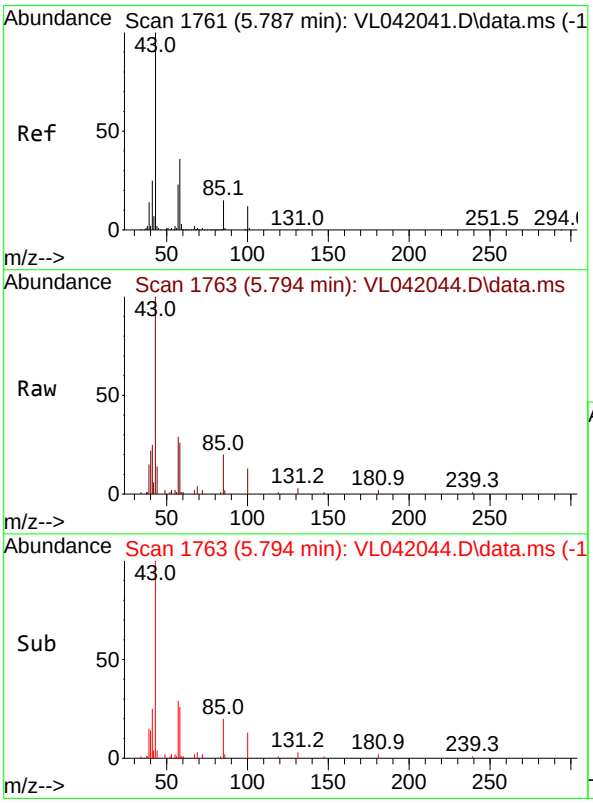
Ion	Ratio	Lower	Upper
173	100		
175	46.0	38.3	57.5
171	48.8	40.2	60.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

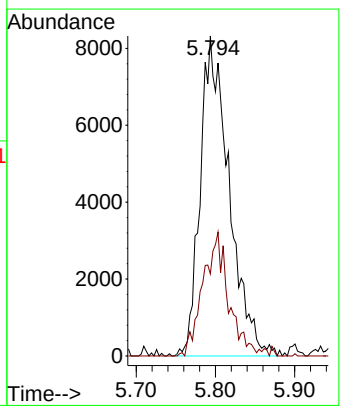
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

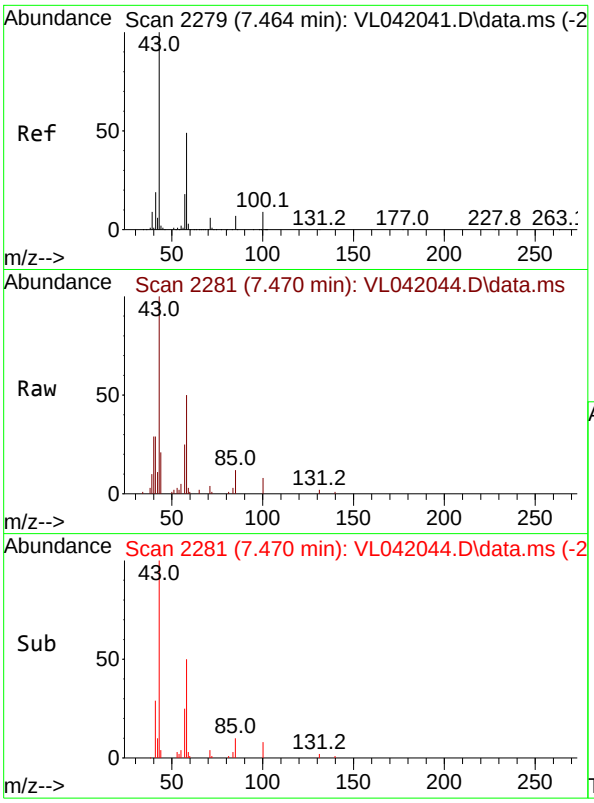


#50
4-Methyl-2-Pentanone
Concen: 0.377 ppbv m
RT: 5.794 min Scan# 1763
Delta R.T. 0.006 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 20992

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.3	43.9#

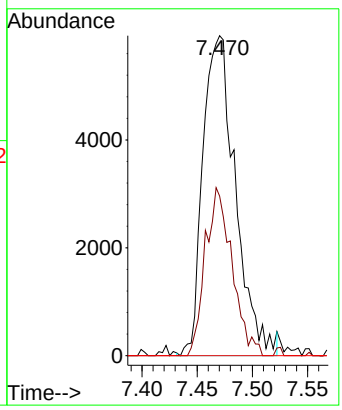




#51
2-Hexanone
Concen: 0.267 ppbv m
RT: 7.470 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 1214

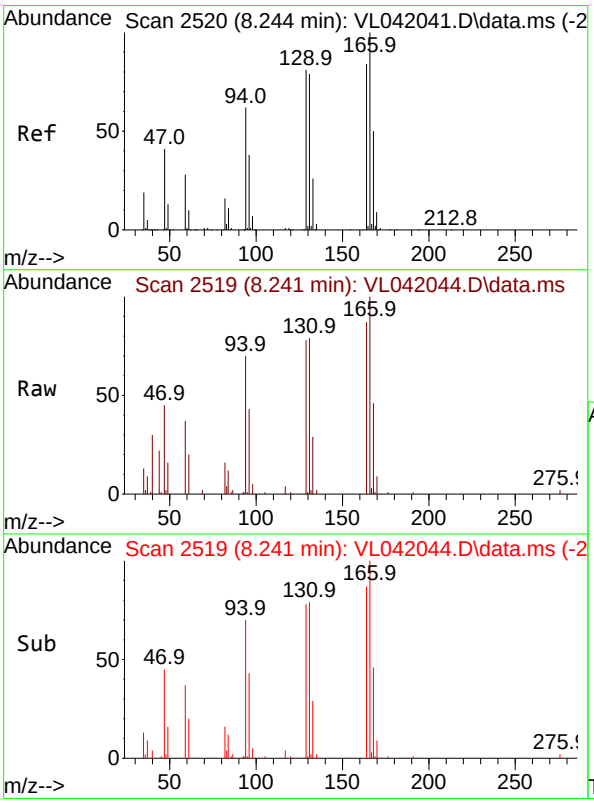
Ion	Ratio	Lower	Upper
43	100		
58	43.7	39.0	58.6
98	0.0	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

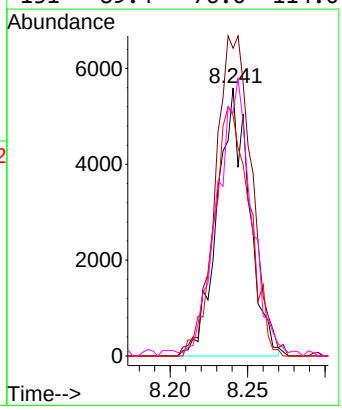
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

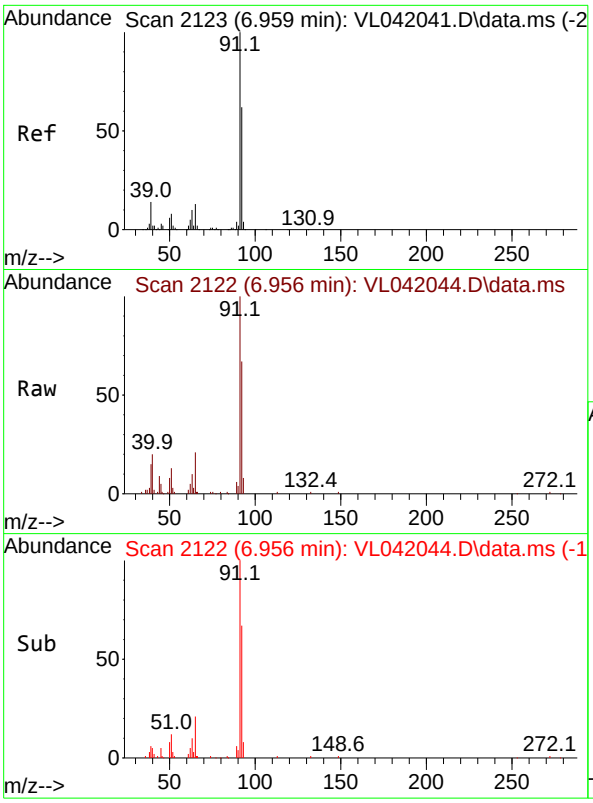


#52
Tetrachloroethene
Concen: 0.450 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:164 Resp: 8012

Ion	Ratio	Lower	Upper
164	100		
166	114.8	95.7	143.5
129	89.8	77.1	115.7
131	89.4	76.0	114.0

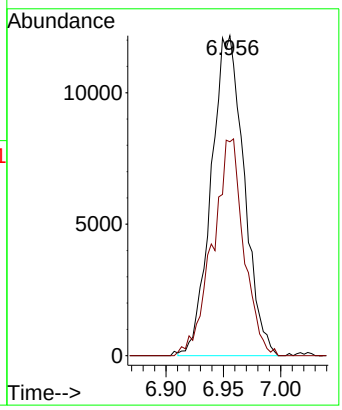




#53
Toluene
Concen: 0.398 ppbv
RT: 6.956 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 2422

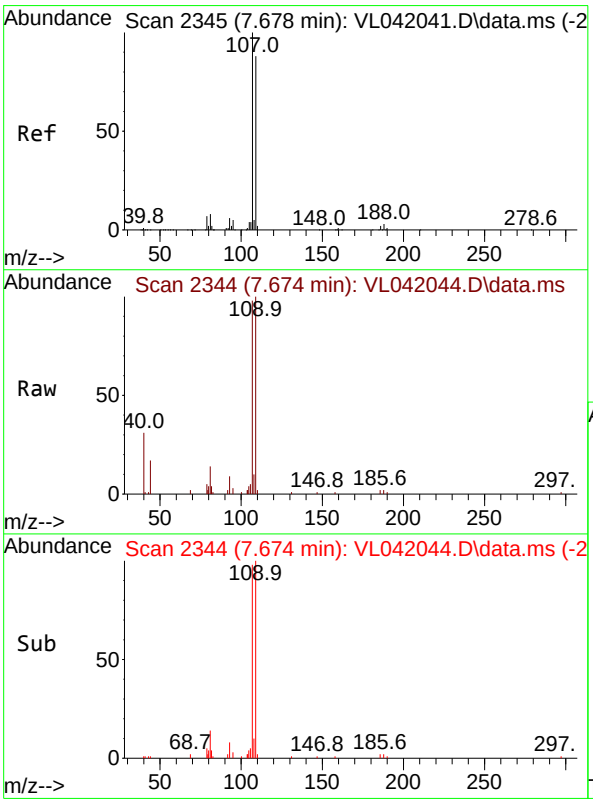
Ion	Ratio	Lower	Upper
91	100		
92	64.4	49.0	73.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

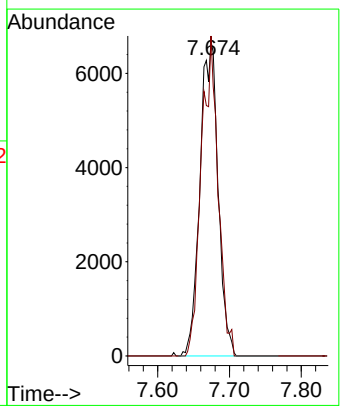
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

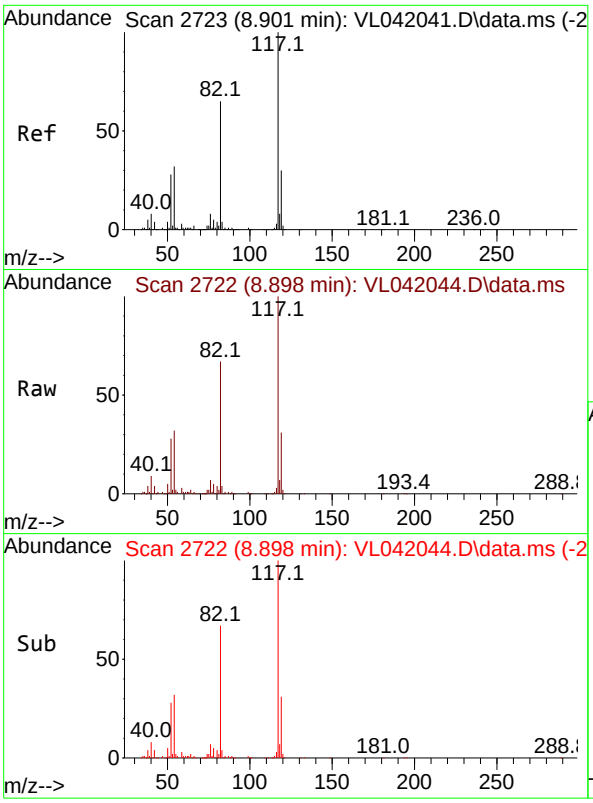


#54
1,2-Dibromoethane
Concen: 0.432 ppbv m
RT: 7.674 min Scan# 2344
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:107 Resp: 11718

Ion	Ratio	Lower	Upper
107	100		
109	101.6	70.2	105.4

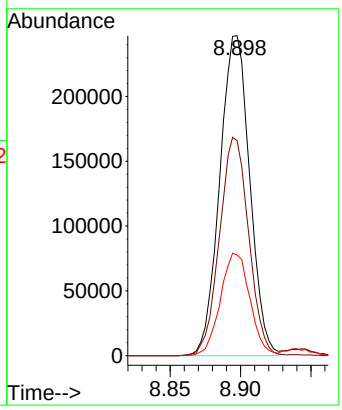




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:117 Resp: 365954

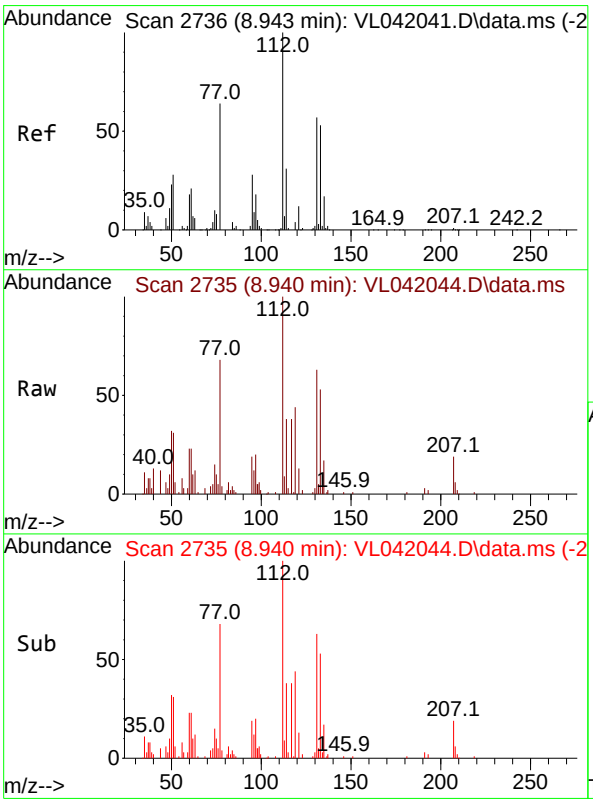
Ion	Ratio	Lower	Upper
117	100		
82	66.8	55.0	82.6
119	33.5	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

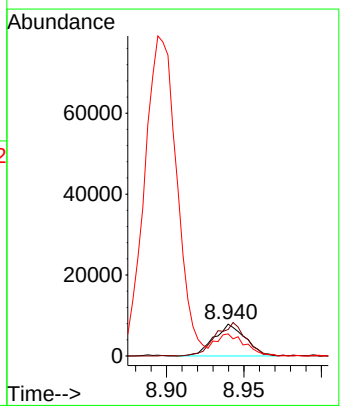
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

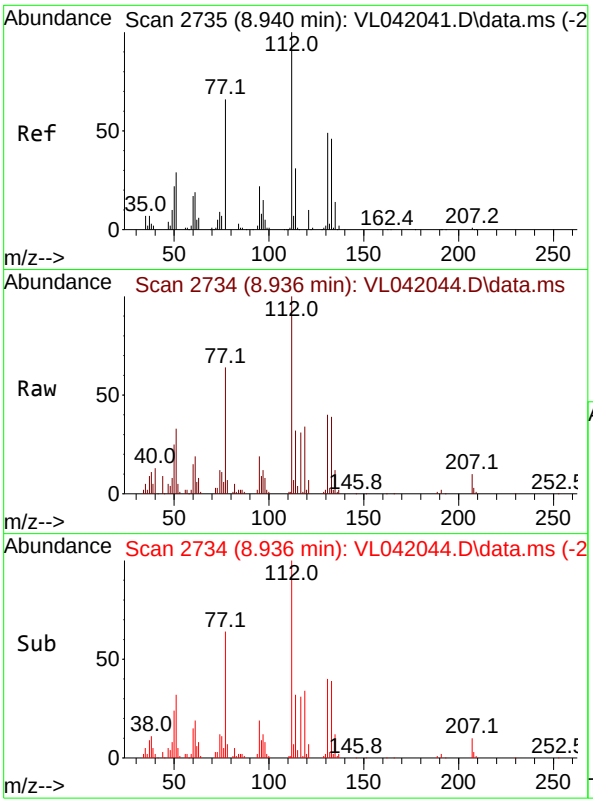


#56
1,1,1,2-Tetrachloroethane
Concen: 0.424 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:131 Resp: 11100

Ion	Ratio	Lower	Upper
131	100		
133	103.4	75.8	113.8
119	0.0	52.1	78.1#

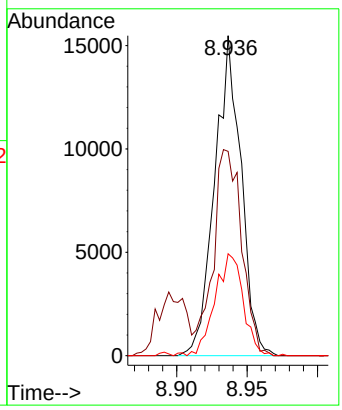




#57
Chlorobenzene
Concen: 0.468 ppbv
RT: 8.936 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:112 Resp: 2016

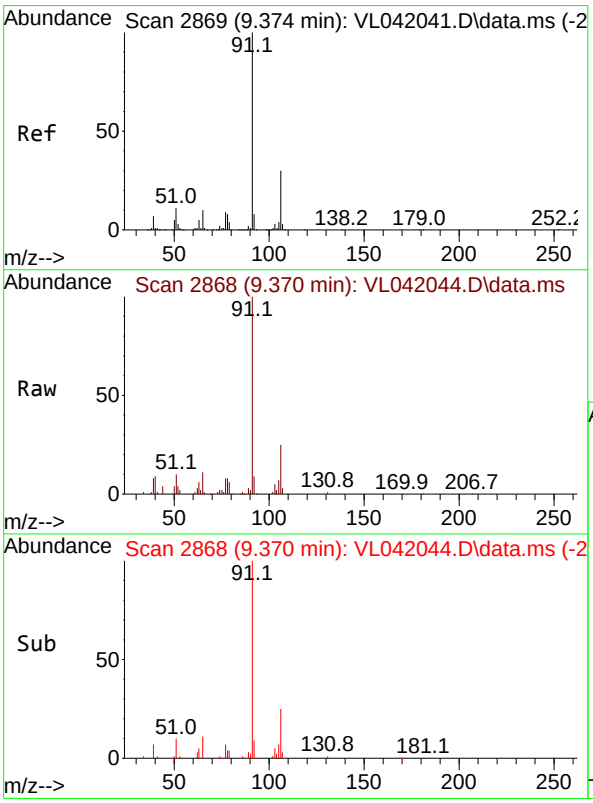
Ion	Ratio	Lower	Upper
112	100		
77	63.8	53.4	80.2
114	31.9	28.3	34.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

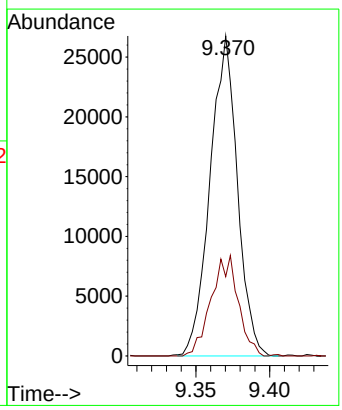
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

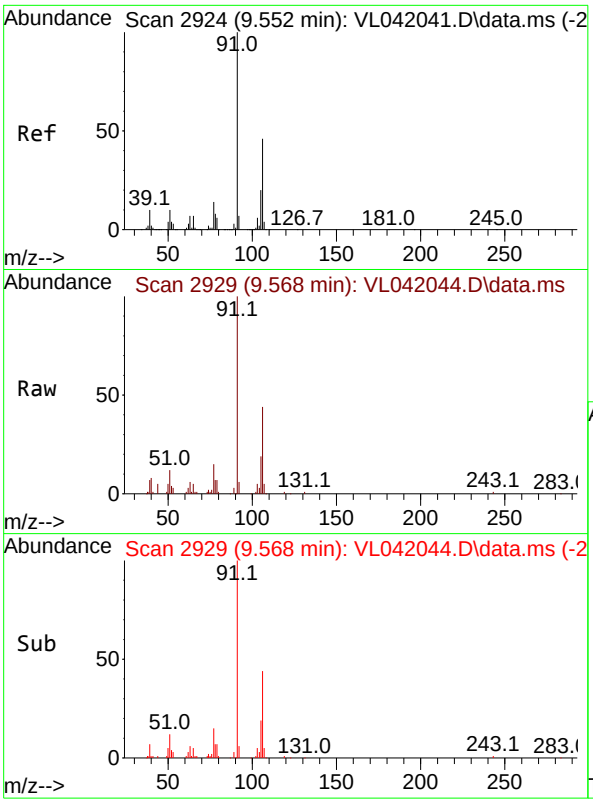


#58
Ethyl Benzene
Concen: 0.431 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 34506

Ion	Ratio	Lower	Upper
91	100		
106	24.8	24.2	36.2

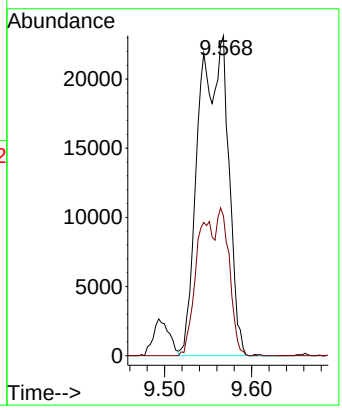




#59
m/p-Xylene
Concen: 0.863 ppbv m
RT: 9.568 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 5444

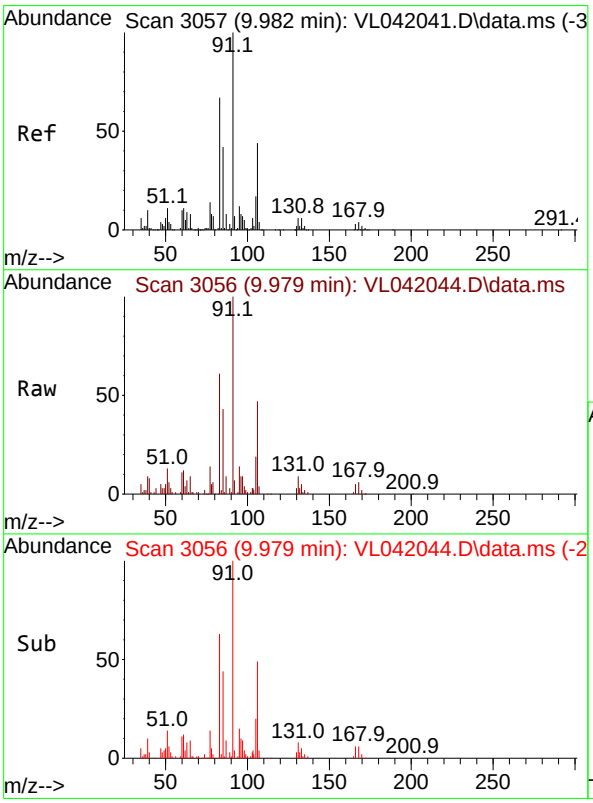
Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

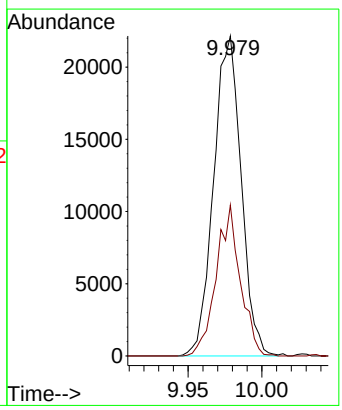
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

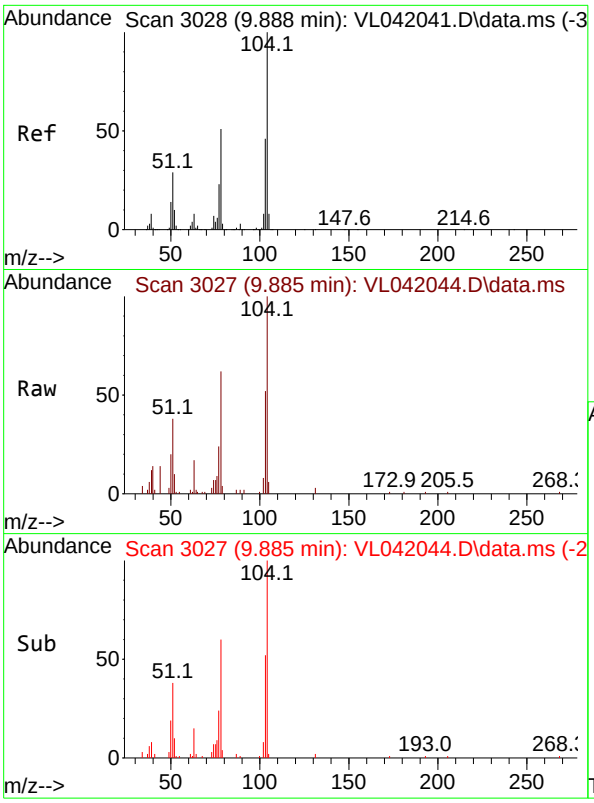


#60
o-Xylene
Concen: 0.451 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 28757

Ion	Ratio	Lower	Upper
91	100		
106	41.3	22.3	66.8

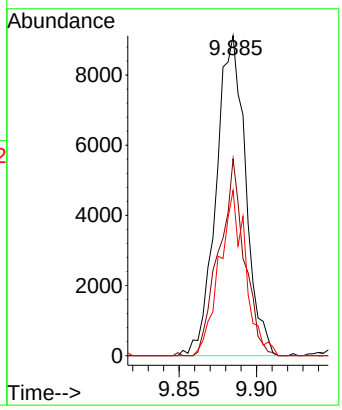




#61
Styrene
Concen: 0.396 ppbv
RT: 9.885 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:104 Resp: 1205

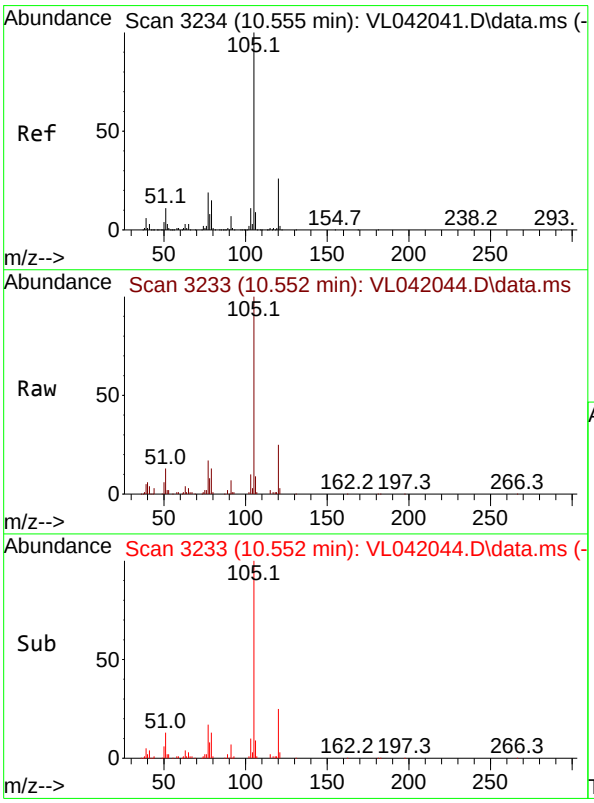
Ion	Ratio	Lower	Upper
104	100		
78	52.9	41.0	61.4
103	46.1	37.0	55.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

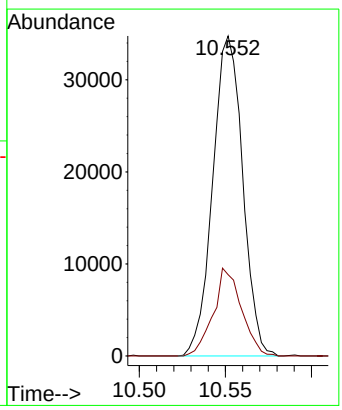
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

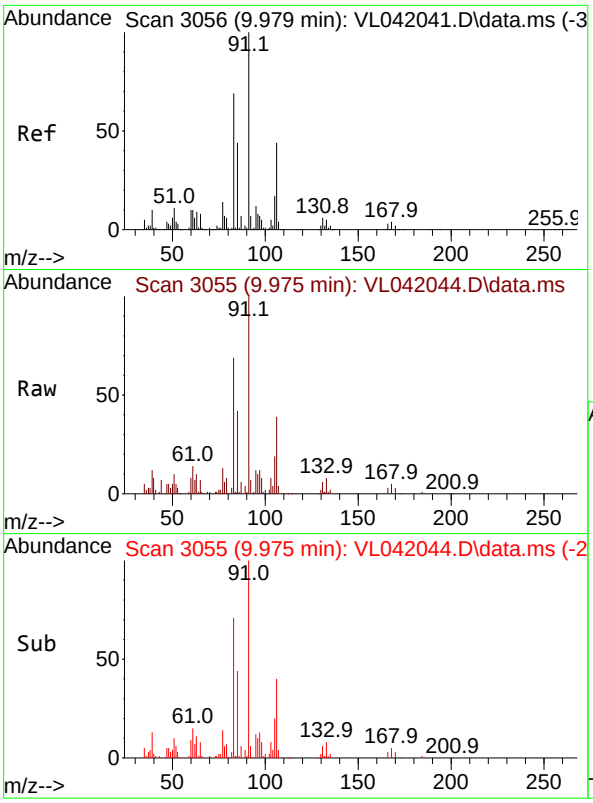


#62
Isopropylbenzene
Concen: 0.439 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 42074

Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.7	31.1

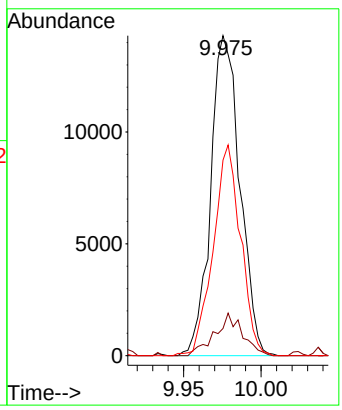




#63
1,1,2,2-Tetrachloroethane
Concen: 0.456 ppbv
RT: 9.975 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 83 Resp: 1877

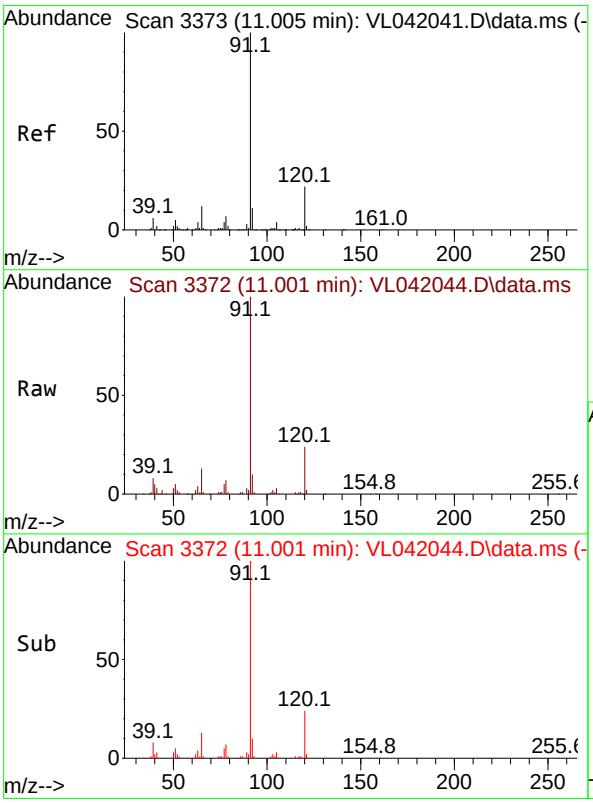
Ion	Ratio	Lower	Upper
83	100		
131	12.5	4.5	13.7
85	61.7	32.1	96.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

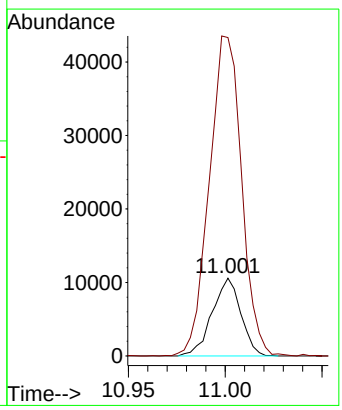
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

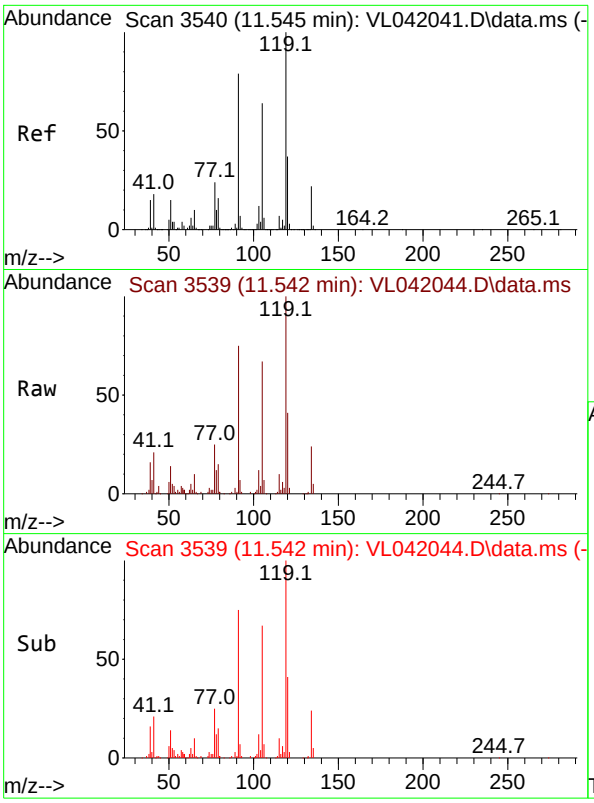


#64
n-propylbenzene
Concen: 0.463 ppbv
RT: 11.001 min Scan# 3372
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:120 Resp: 10900

Ion	Ratio	Lower	Upper
120	100		
91	464.2	370.6	556.0

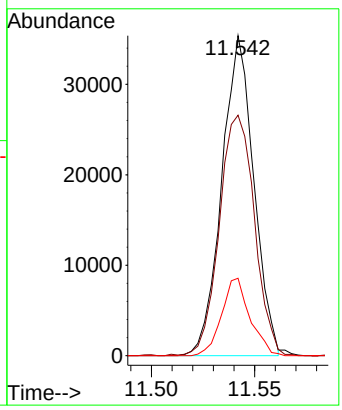




#65
tert-Butylbenzene
Concen: 0.456 ppbv
RT: 11.542 min Scan# 3
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:119 Resp: 3806

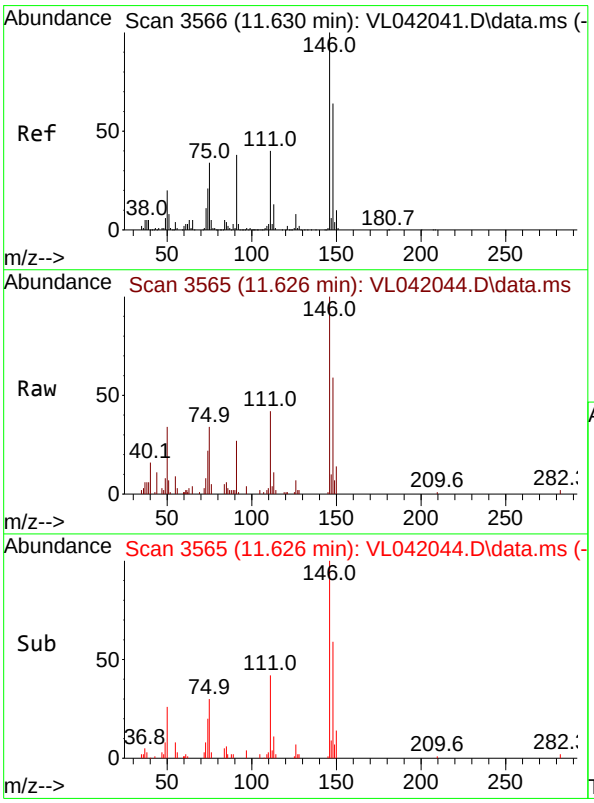
Ion	Ratio	Lower	Upper
119	100		
91	82.9	64.2	96.2
134	21.5	17.4	26.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

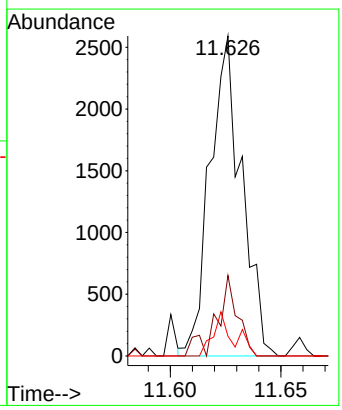
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

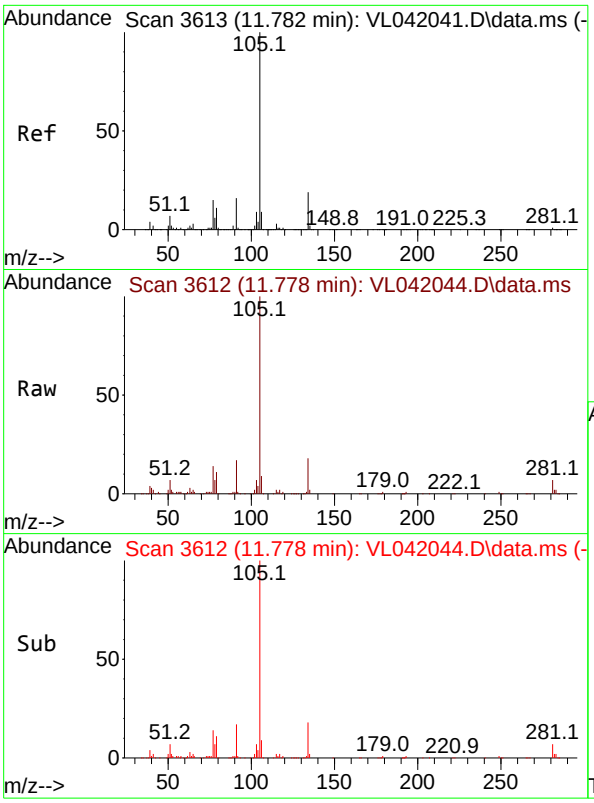


#66
Benzyl Chloride
Concen: 0.309 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 2589

Ion	Ratio	Lower	Upper
91	100		
126	16.8	14.5	21.7
128	8.7	5.4	8.2#

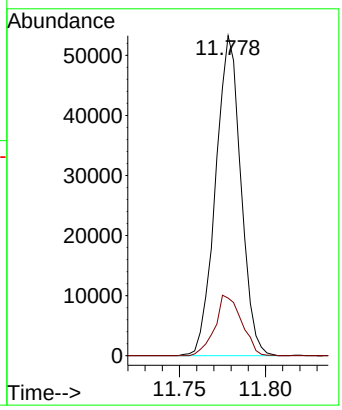




#67
sec-Butylbenzene
Concen: 0.464 ppbv
RT: 11.778 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 5439

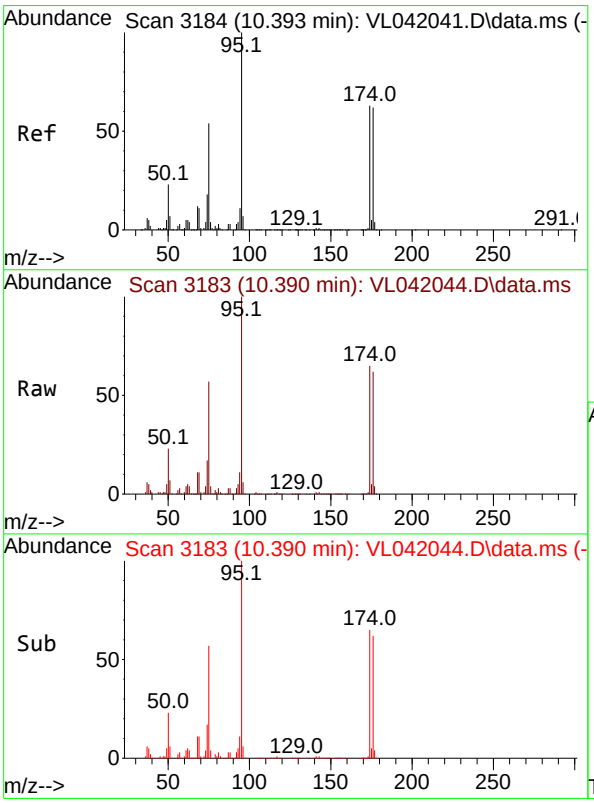
Ion	Ratio	Lower	Upper
105	100		
134	19.9	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

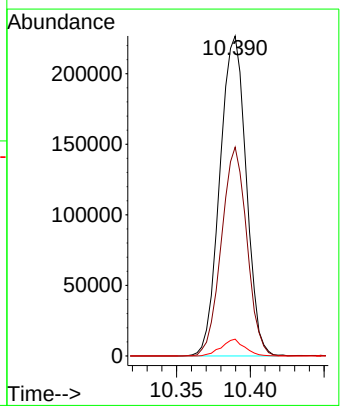
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

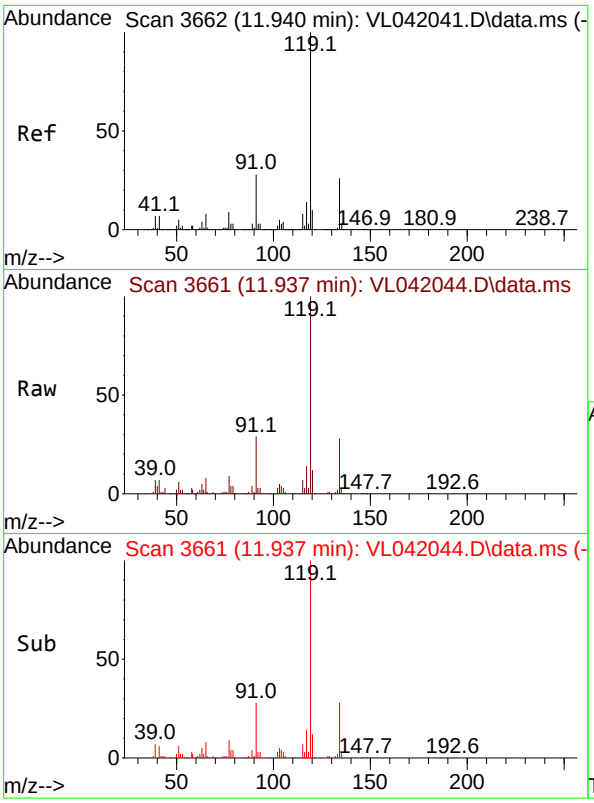


#68
1-Bromo-4-Fluorobenzene
Concen: 9.310 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 95 Resp: 281042

Ion	Ratio	Lower	Upper
95	100		
174	63.4	51.8	77.6
175	4.6	3.9	5.9

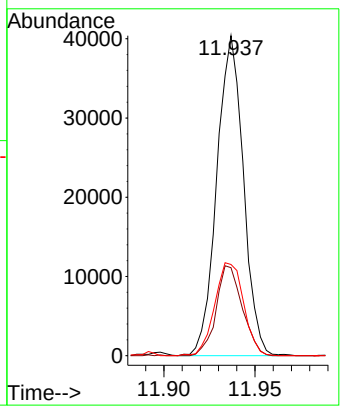




#69
p-Isopropyltoluene
Concen: 0.427 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:119 Resp: 4097

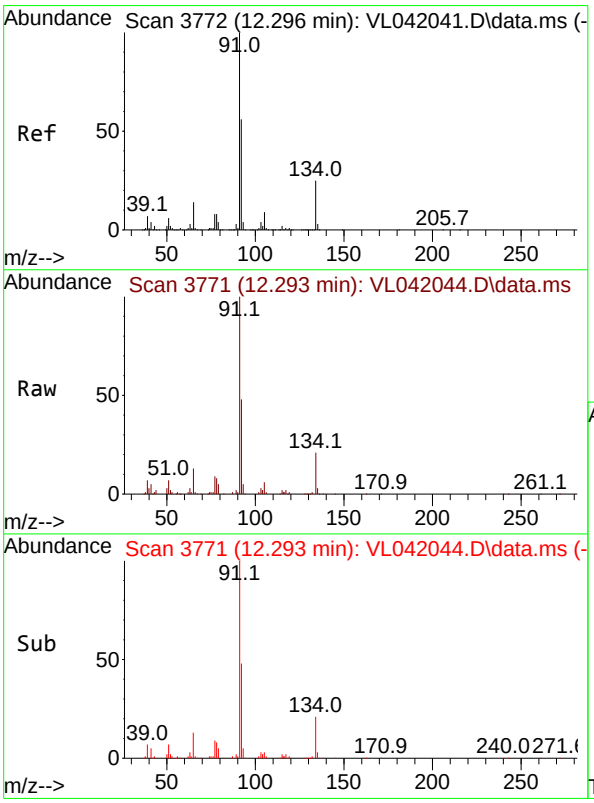
Ion	Ratio	Lower	Upper
119	100		
134	27.7	20.9	31.3
91	32.2	23.1	34.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

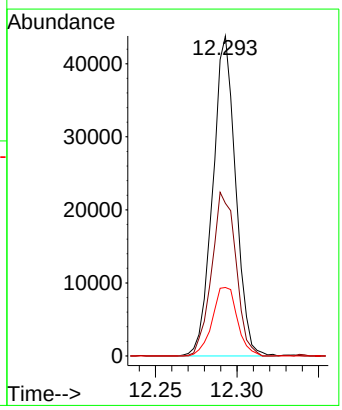
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

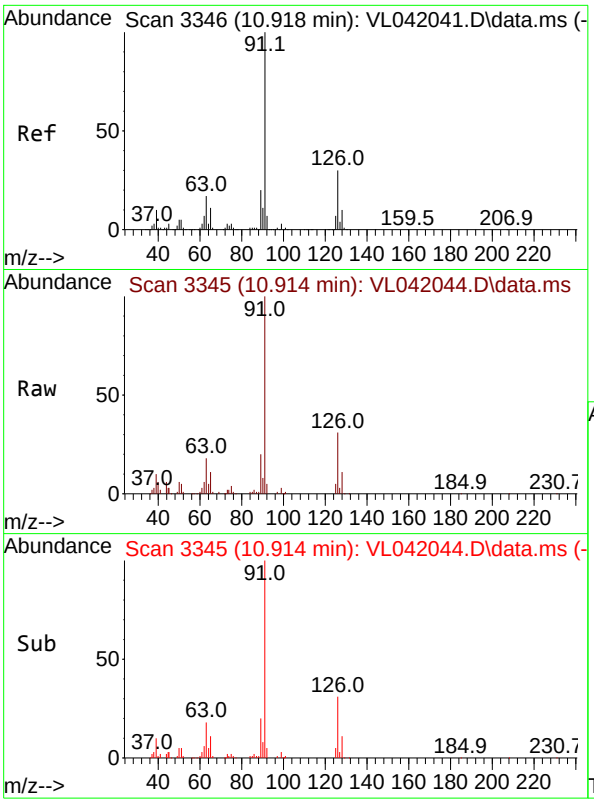


#70
n-Butylbenzene
Concen: 0.451 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 42673

Ion	Ratio	Lower	Upper
91	100		
92	54.5	44.7	67.1
134	23.5	18.9	28.3

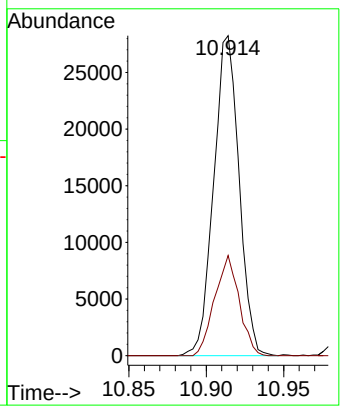




#71
2-Chlorotoluene
Concen: 0.446 ppbv
RT: 10.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 3216

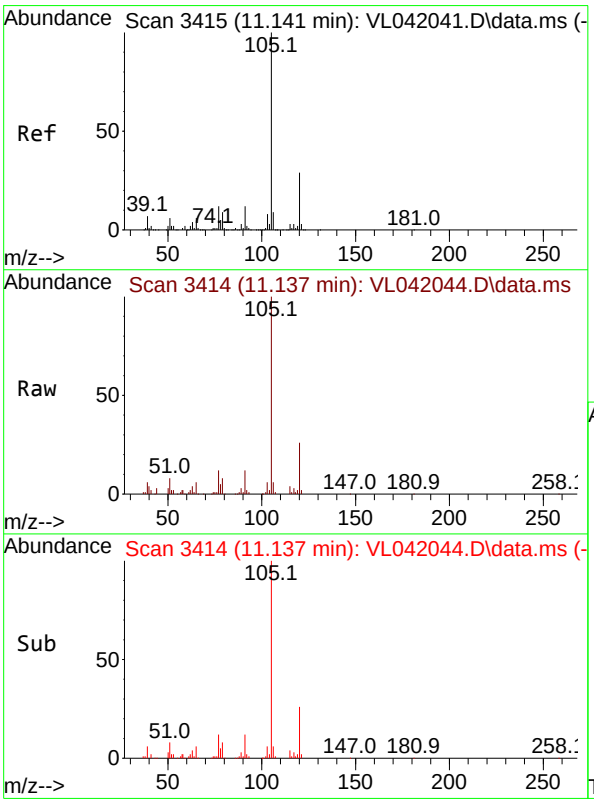
Ion	Ratio	Lower	Upper
91	100		
126	30.2	11.9	47.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

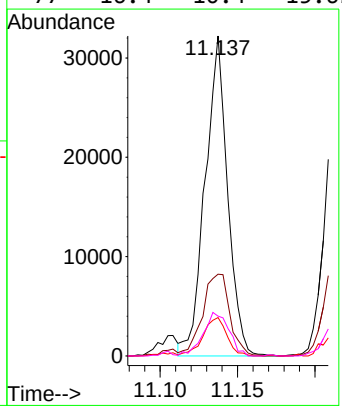
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

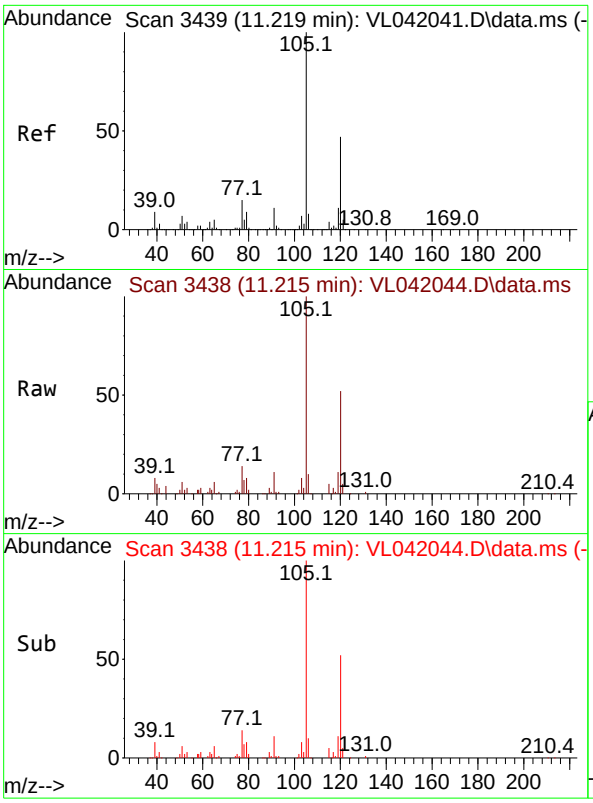


#72
4-Ethyltoluene
Concen: 0.434 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 32477

Ion	Ratio	Lower	Upper
105	100		
120	32.5	24.1	36.1
91	13.6	10.2	15.4
77	16.4	10.4	15.6#

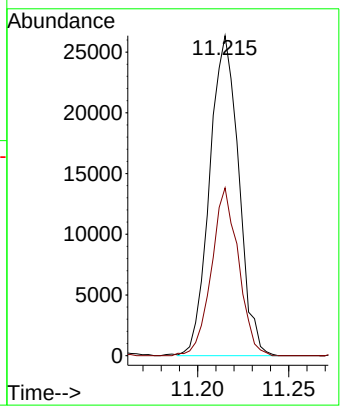




#73
1,3,5-Trimethylbenzene
Concen: 0.452 ppbv
RT: 11.215 min Scan# 3
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 2913

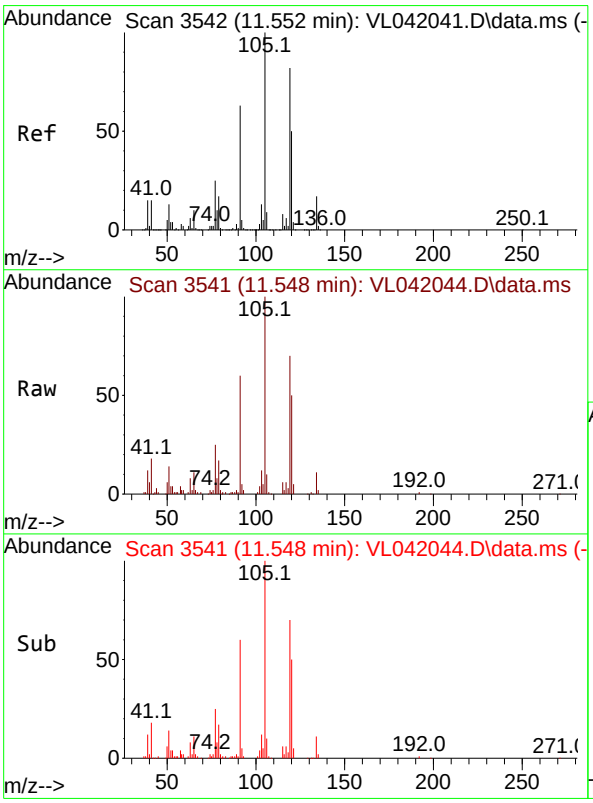
Ion	Ratio	Lower	Upper
105	100		
120	52.4	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

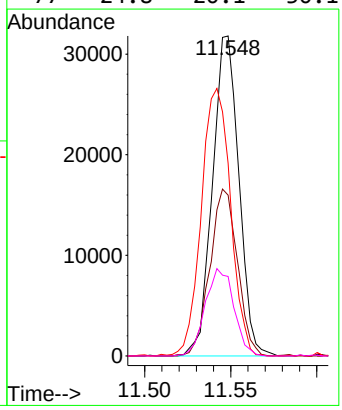
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

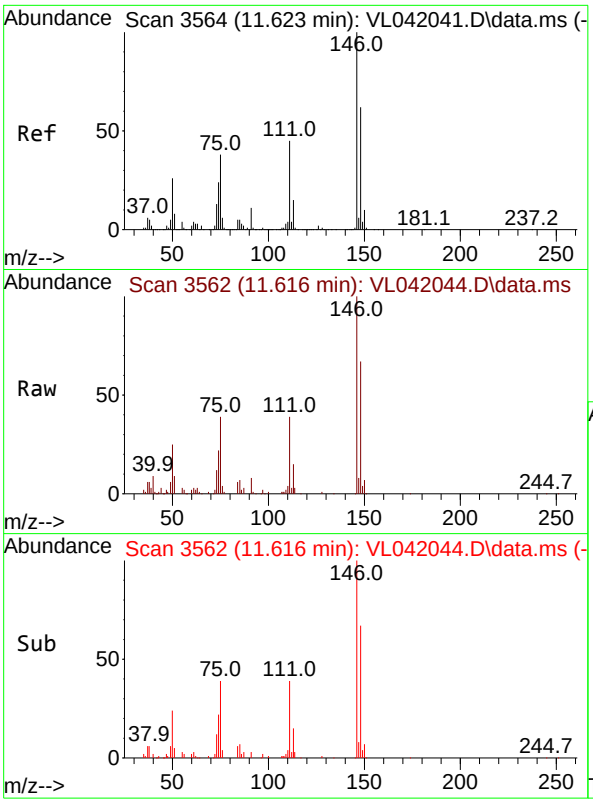


#74
1,2,4-Trimethylbenzene
Concen: 0.491 ppbv
RT: 11.548 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 33950

Ion	Ratio	Lower	Upper
105	100		
120	50.1	40.2	60.2
91	60.2	51.4	77.2
77	24.8	20.1	30.1

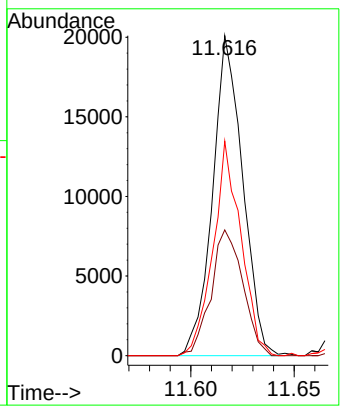




#75
1,3-Dichlorobenzene
Concen: 0.546 ppbv
RT: 11.616 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:146 Resp: 2033

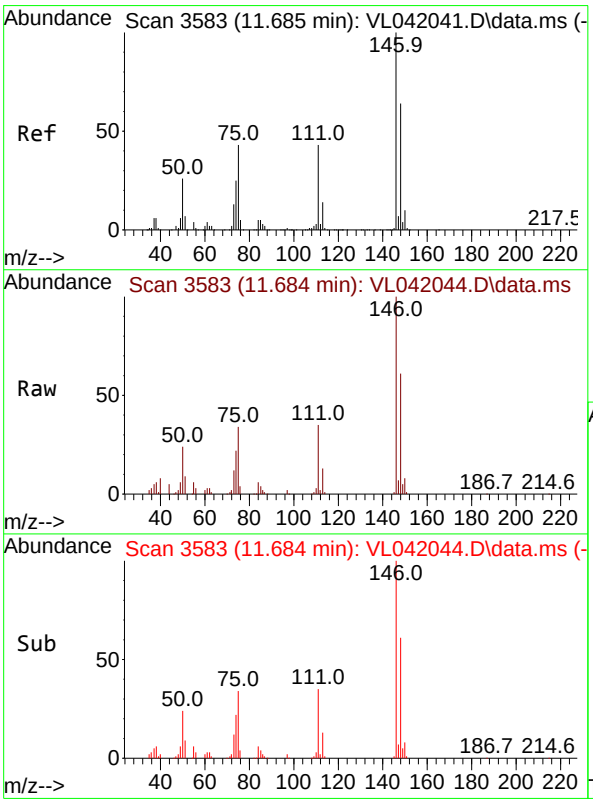
Ion	Ratio	Lower	Upper
146	100		
111	41.6	22.4	67.2
148	61.9	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

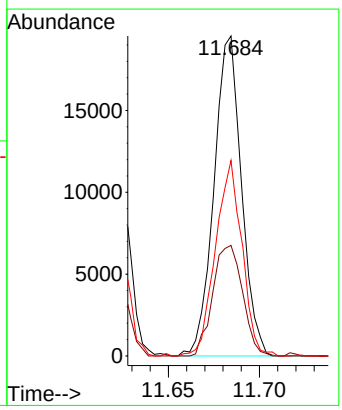
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

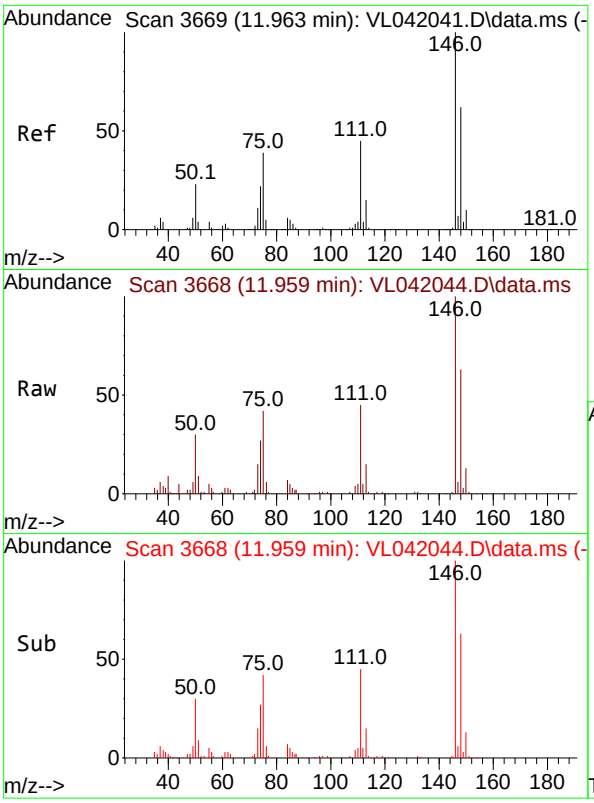


#76
1,4-Dichlorobenzene
Concen: 0.564 ppbv
RT: 11.684 min Scan# 3583
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:146 Resp: 20492

Ion	Ratio	Lower	Upper
146	100		
111	37.7	21.5	64.5
148	58.8	31.6	95.0

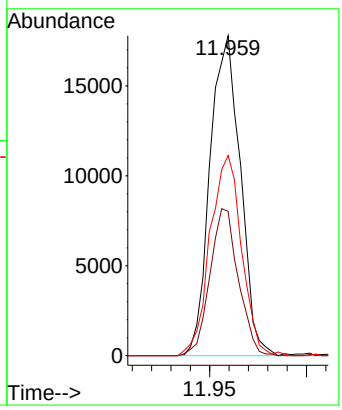




#77
1,2-Dichlorobenzene
Concen: 0.544 ppbv
RT: 11.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:146 Resp: 1937

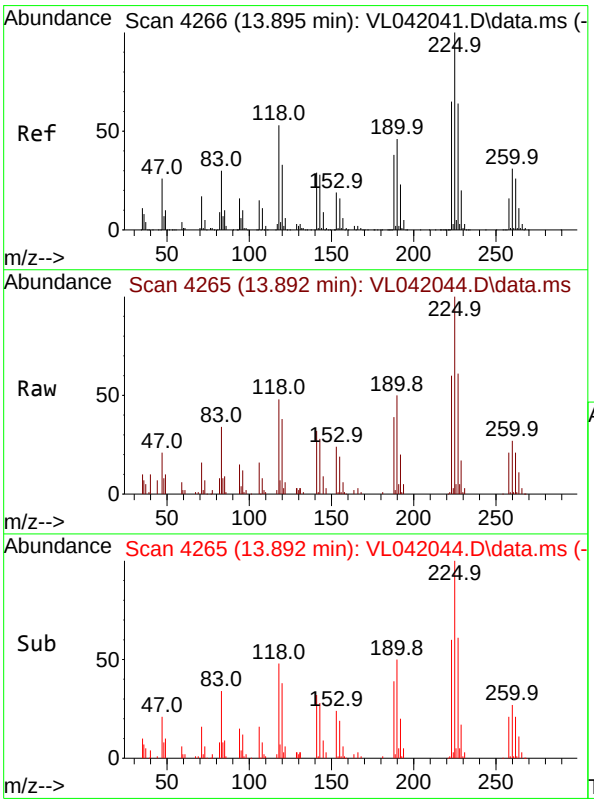
Ion	Ratio	Lower	Upper
146	100		
111	43.0	23.2	69.6
148	65.0	31.4	94.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

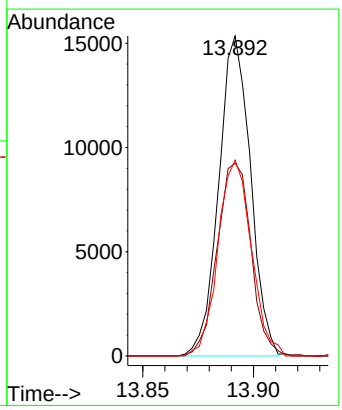
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

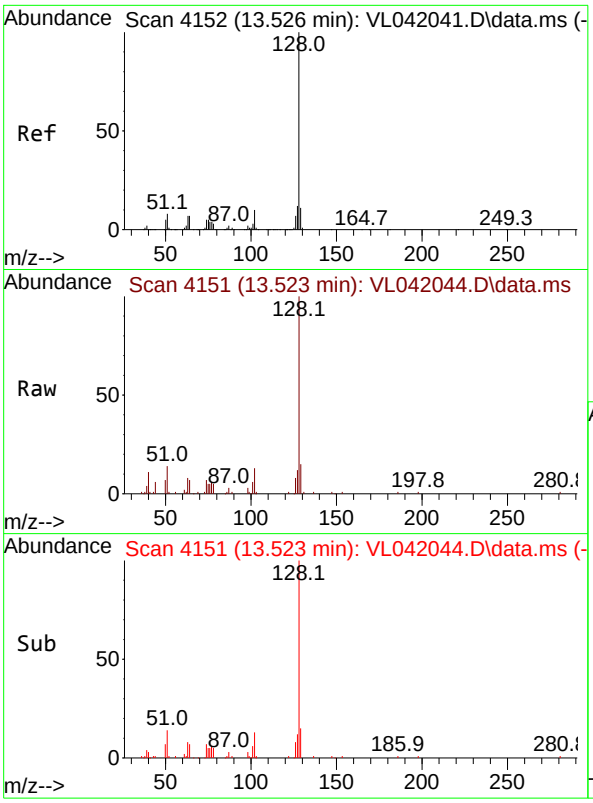


#78
Hexachloro-1,3-Butadiene
Concen: 0.522 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:225 Resp: 15367

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.2	75.2
227	64.0	50.8	76.2





#79
Naphthalene
Concen: 0.263 ppbv
RT: 13.523 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

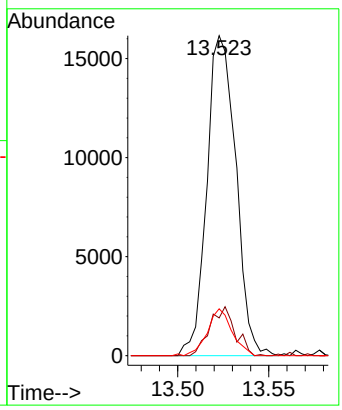
Tgt Ion:128 Resp: 1789

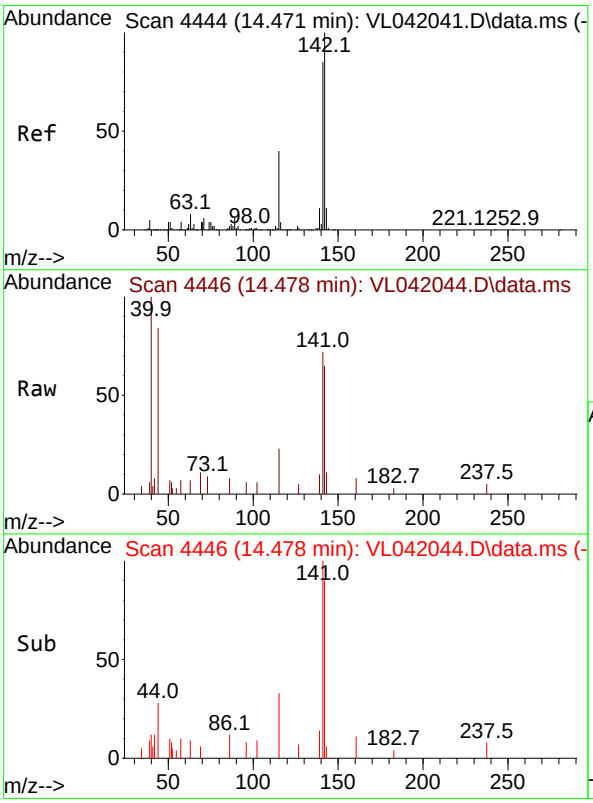
Ion	Ratio	Lower	Upper
128	100		
127	11.8	9.8	14.6
129	14.7	8.6	12.8#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

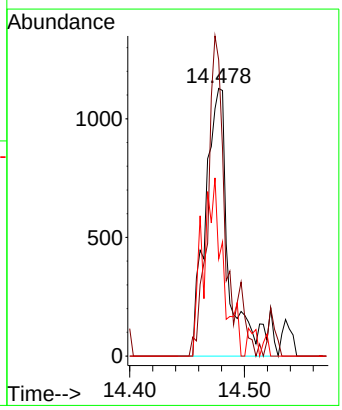


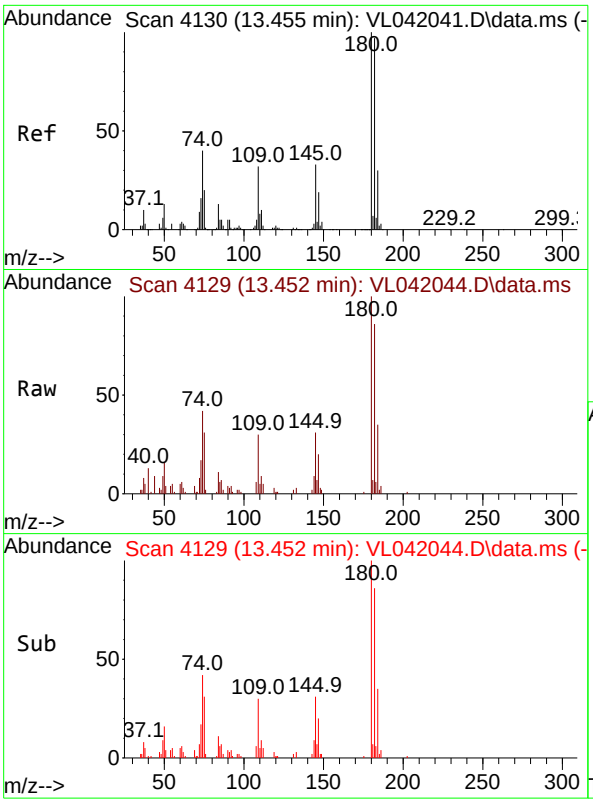


#80
Naphthalene,2-methyl-
Concen: 0.053 ppbv
RT: 14.478 min Scan# 4446
Delta R.T. 0.006 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:142 Resp: 1646

Ion	Ratio	Lower	Upper
142	100		
141	94.8	65.8	98.6
115	55.5	29.5	44.3#

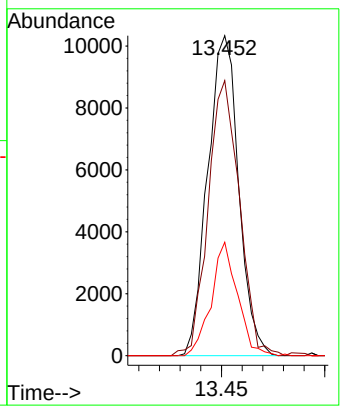




#81
1,2,4-Trichlorobenzene
Concen: 0.389 ppbv
RT: 13.452 min Scan# 4
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:180 Resp: 1077

Ion	Ratio	Lower	Upper
180	100		
182	87.1	75.1	112.7
184	30.2	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.803	49	161406	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	414875	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	363831	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	276484	9.213	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 92.100%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.586	62	543	0.042	ppbv	# 88
32) 1,1,1-Trichloroethane	3.386	97	3026	0.064	ppbv	# 86
35) Carbon Tetrachloride	3.787	117	2923m	0.073	ppbv	
38) Trichloroethene	4.577	130	1915m	0.094	ppbv	
52) Tetrachloroethene	8.254	164	1552m	0.089	ppbv	
54) 1,2-Dibromoethane	7.678	107	2335m	0.087	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.982	83	3549m	0.087	ppbv	
79) Naphthalene	13.529	128	3058	0.045	ppbv	# 91

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

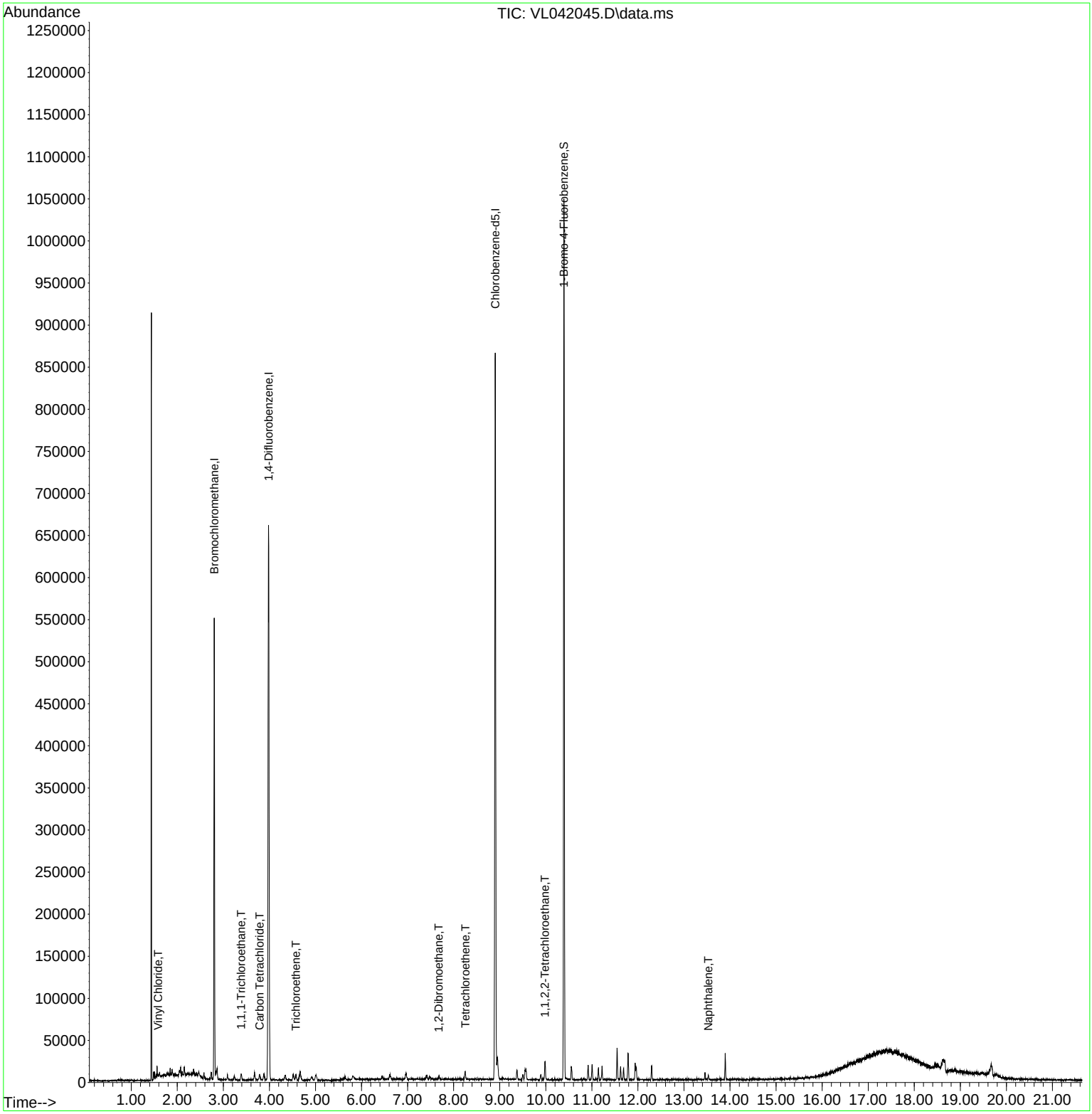
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

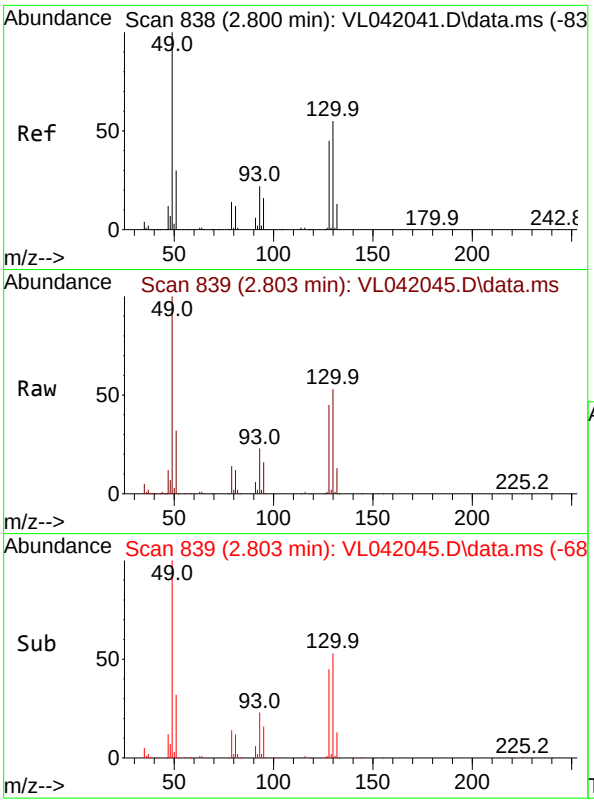
Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

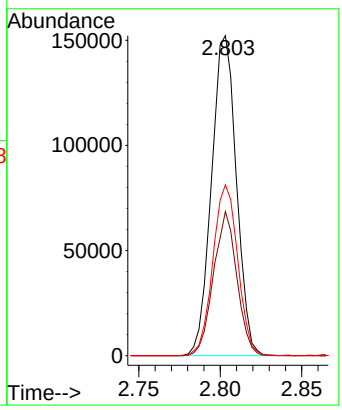




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 49 Resp: 16140

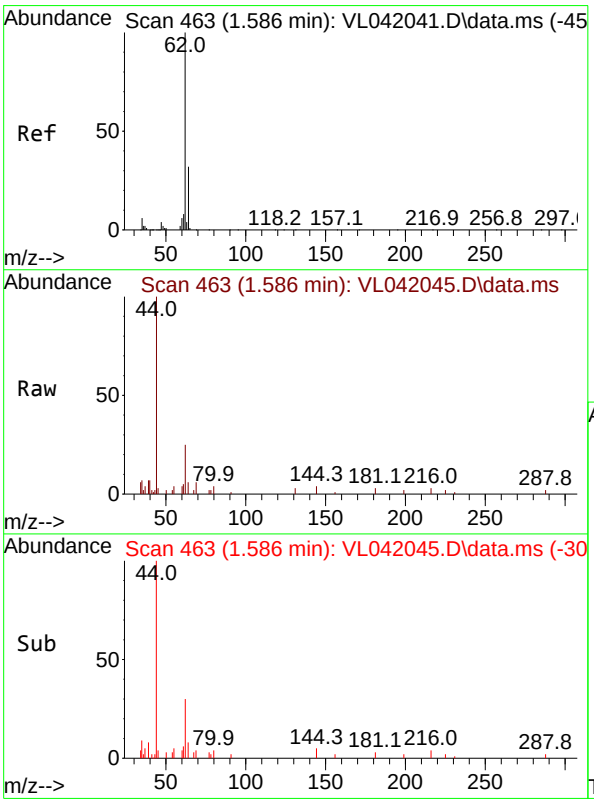
Ion	Ratio	Lower	Upper
49	100		
128	42.3	21.6	64.8
130	53.5	27.8	83.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

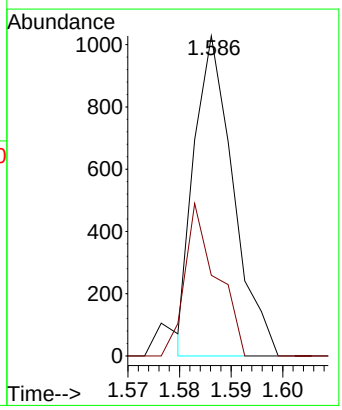
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

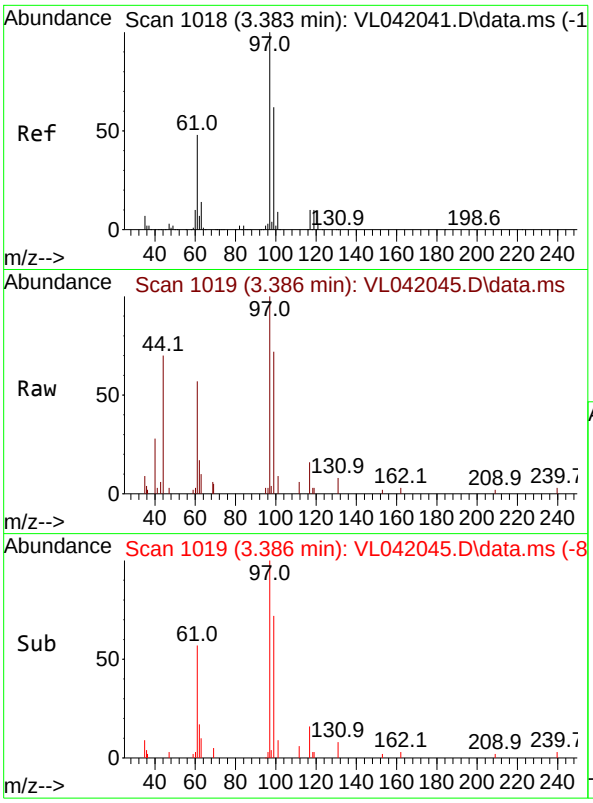


#5
Vinyl Chloride
Concen: 0.042 ppbv
RT: 1.586 min Scan# 463
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 62 Resp: 543

Ion	Ratio	Lower	Upper
62	100		
64	25.2	25.3	37.9#

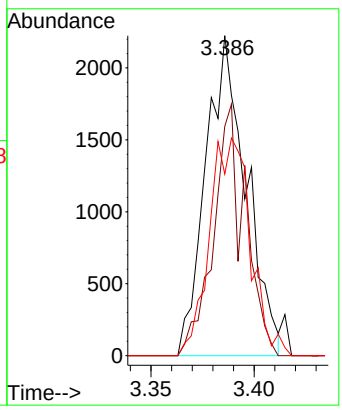




#32
1,1,1-Trichloroethane
Concen: 0.064 ppbv
RT: 3.386 min Scan# 1(
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 97 Resp: 302(

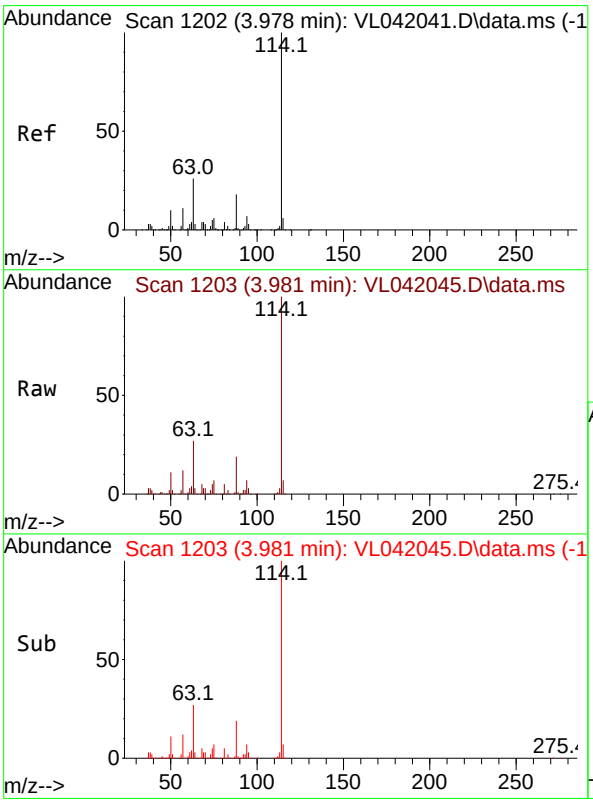
Ion	Ratio	Lower	Upper
97	100		
99	61.1	49.8	74.6
61	68.5	38.9	58.3#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

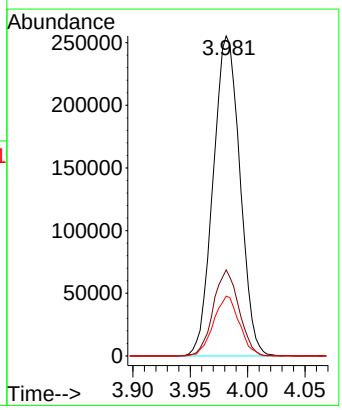
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

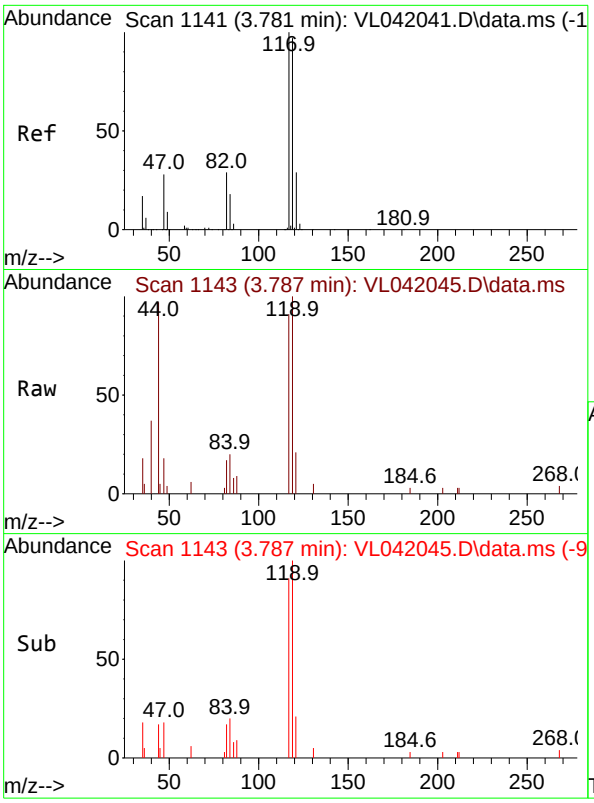


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:114 Resp: 414875

Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.1	30.1
88	18.0	14.3	21.5

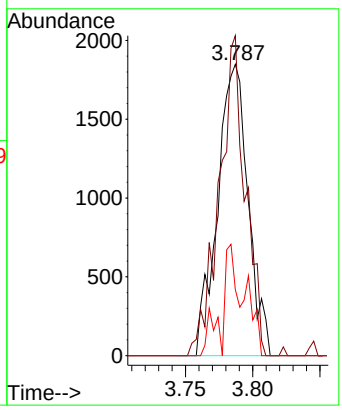




#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 3.787 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:117 Resp: 292

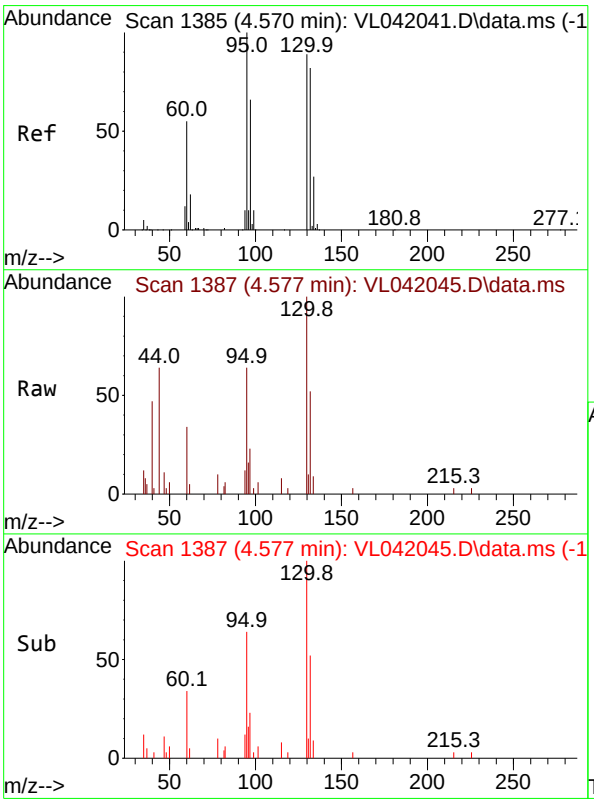
Ion	Ratio	Lower	Upper
117	100		
119	109.8	77.8	116.8
121	22.7	23.4	35.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

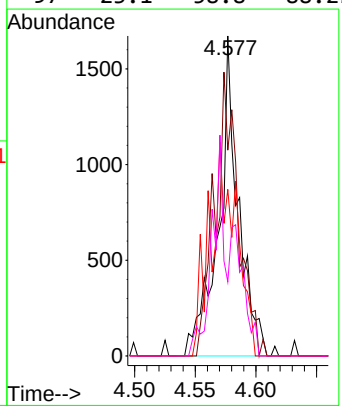
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

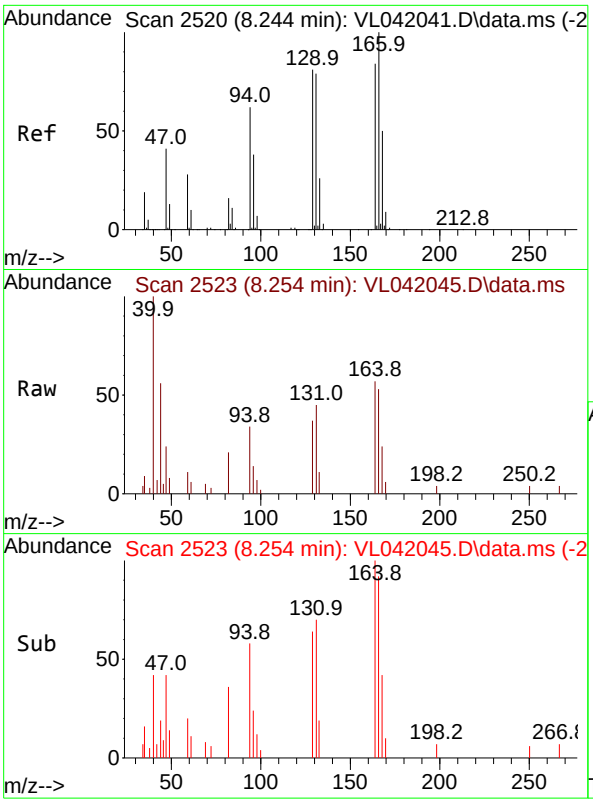


#38
Trichloroethene
Concen: 0.094 ppbv m
RT: 4.577 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:130 Resp: 1915

Ion	Ratio	Lower	Upper
130	100		
95	64.3	89.5	134.3#
132	52.0	73.8	110.6#
97	23.1	58.8	88.2#

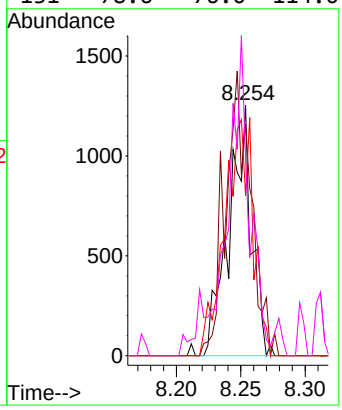




#52
Tetrachloroethene
Concen: 0.089 ppbv m
RT: 8.254 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:164 Resp: 155

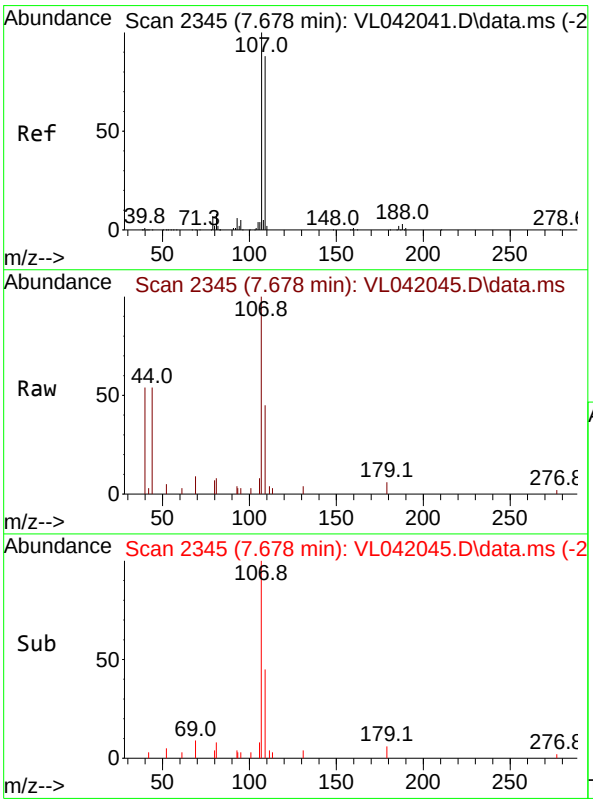
Ion	Ratio	Lower	Upper
164	100		
166	92.3	95.7	143.5#
129	63.9	77.1	115.7#
131	78.6	76.0	114.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

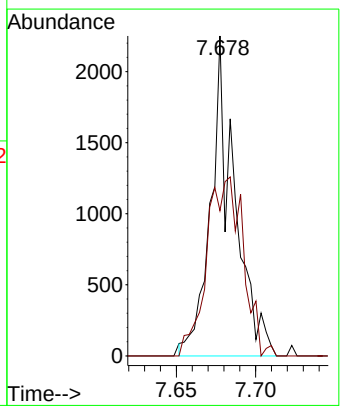
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

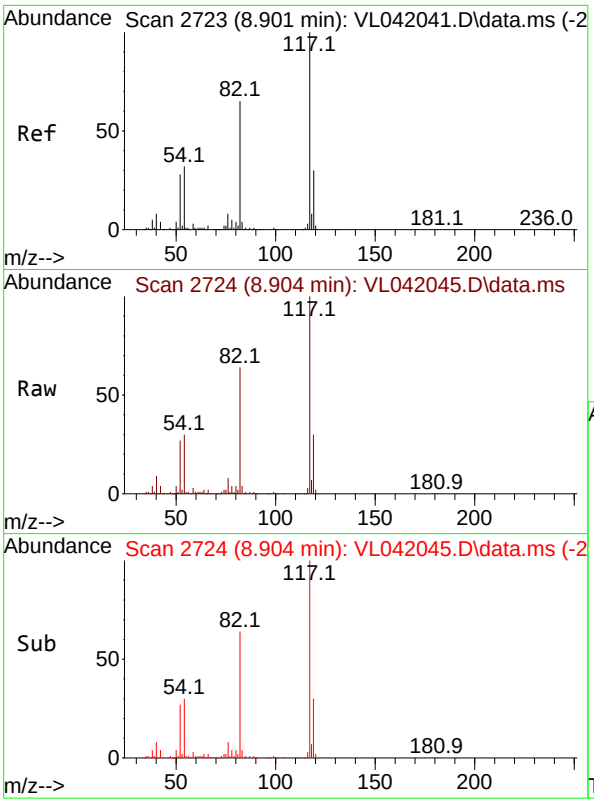


#54
1,2-Dibromoethane
Concen: 0.087 ppbv m
RT: 7.678 min Scan# 2345
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:107 Resp: 2335

Ion	Ratio	Lower	Upper
107	100		
109	45.4	70.2	105.4#

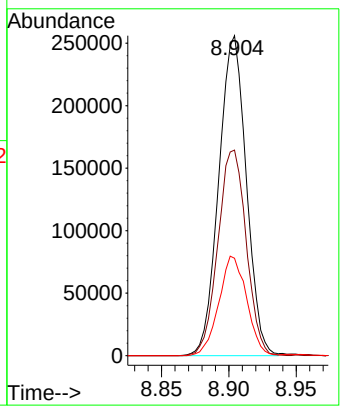




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:117 Resp: 36383

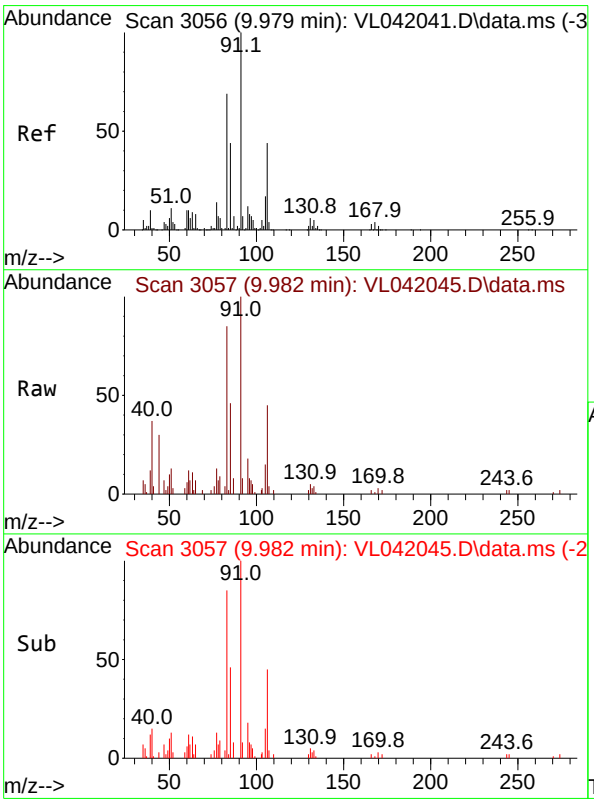
Ion	Ratio	Lower	Upper
117	100		
82	66.3	55.0	82.6
119	31.9	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

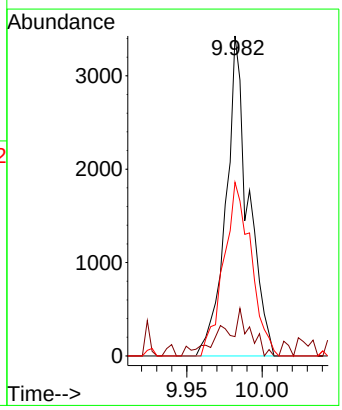
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

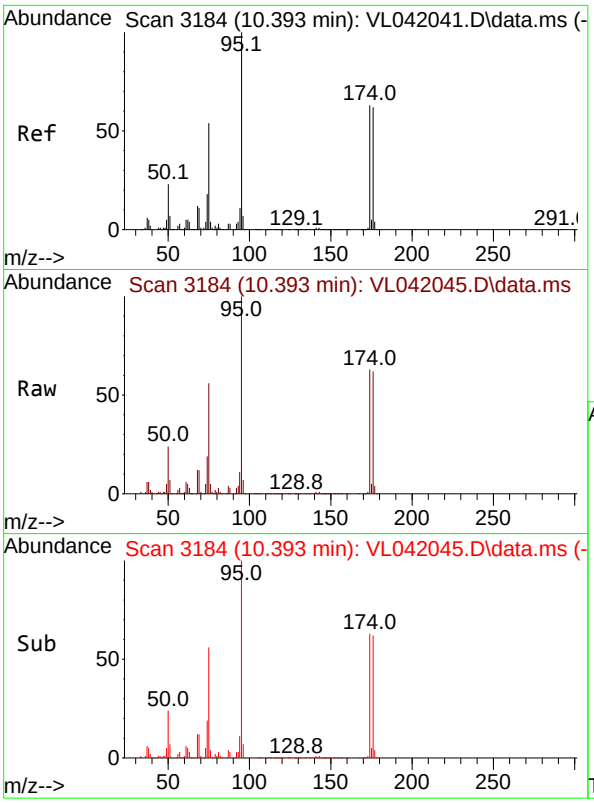


#63
1,1,2,2-Tetrachloroethane
Concen: 0.087 ppbv m
RT: 9.982 min Scan# 3057
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 83 Resp: 3549

Ion	Ratio	Lower	Upper
83	100		
131	23.0	4.5	13.7#
85	66.0	32.1	96.3

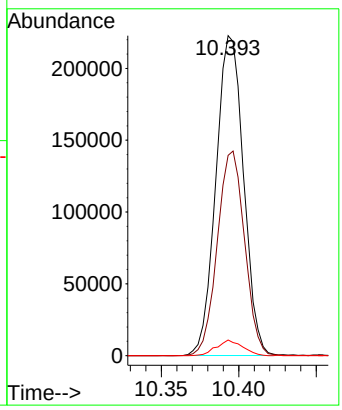




#68
1-Bromo-4-Fluorobenzene
Concen: 9.213 ppbv
RT: 10.393 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 95 Resp: 27648

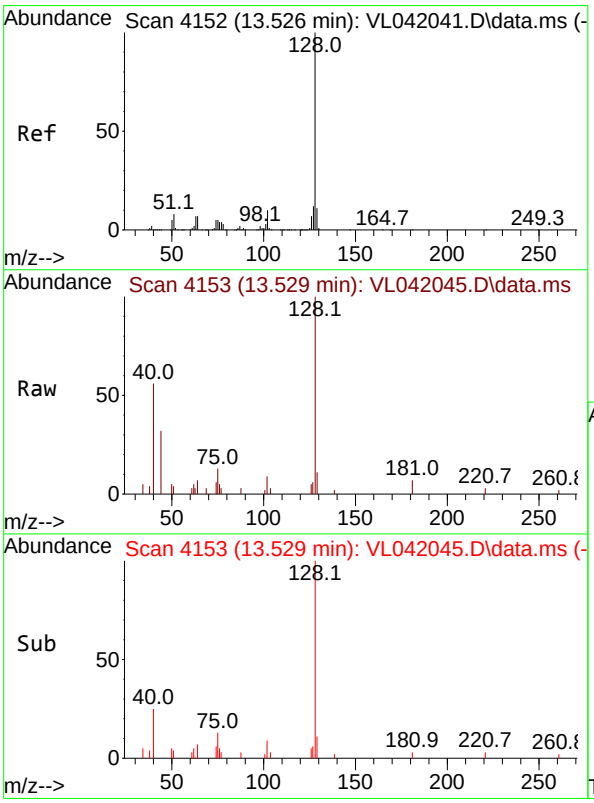
Ion	Ratio	Lower	Upper
95	100		
174	63.2	51.8	77.6
175	4.6	3.9	5.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

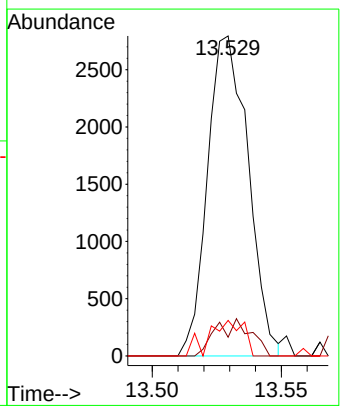
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#79
Naphthalene
Concen: 0.045 ppbv
RT: 13.529 min Scan# 4153
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:128 Resp: 3058

Ion	Ratio	Lower	Upper
128	100		
127	5.9	9.8	14.6#
129	11.1	8.6	12.8



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 93.700%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.586	62	215	0.017	ppbv	89
32) 1,1,1-Trichloroethane	3.379	97	923m	0.020	ppbv	
35) Carbon Tetrachloride	3.784	117	818m	0.021	ppbv	
38) Trichloroethene	4.577	130	551m	0.027	ppbv	
52) Tetrachloroethene	8.237	164	397m	0.023	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.979	83	1058m	0.027	ppbv	

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

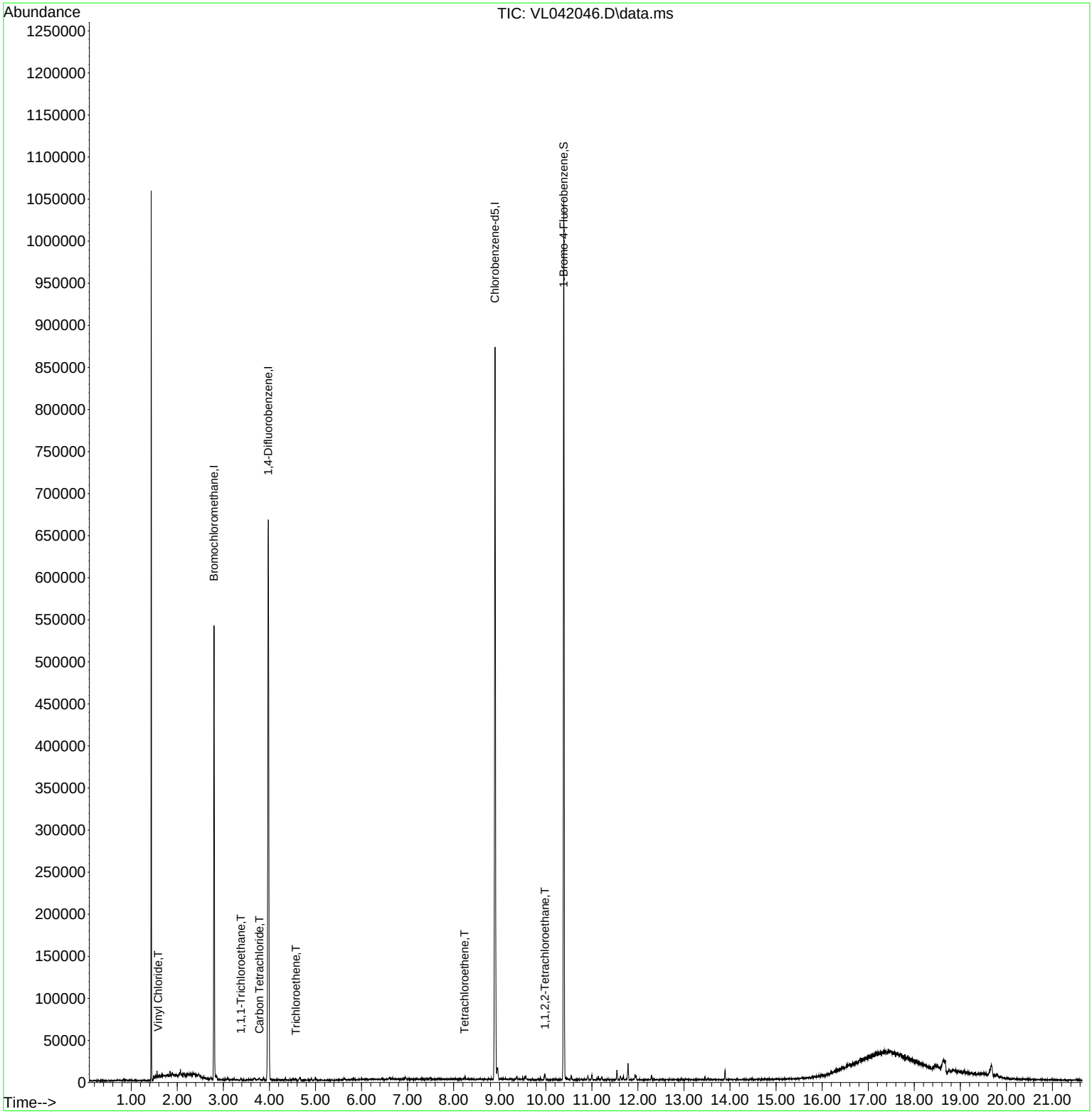
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

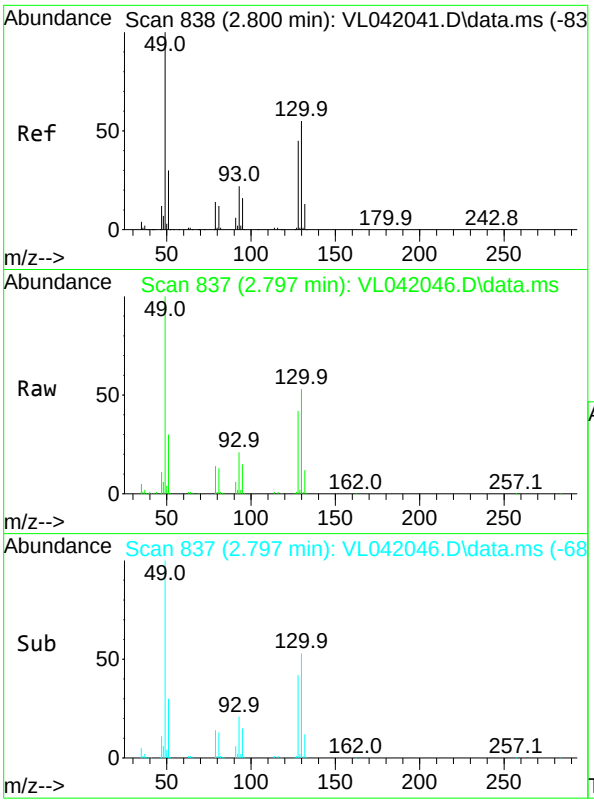
Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

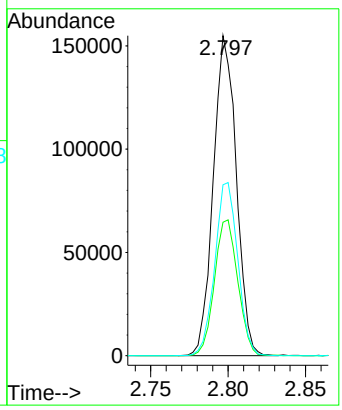




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion: 49 Resp: 16015

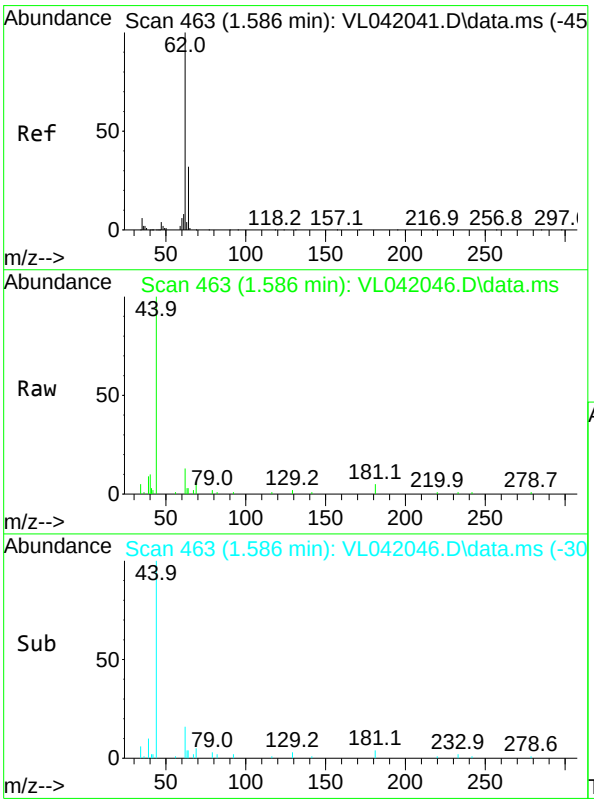
Ion	Ratio	Lower	Upper
49	100		
128	43.1	21.6	64.8
130	53.9	27.8	83.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

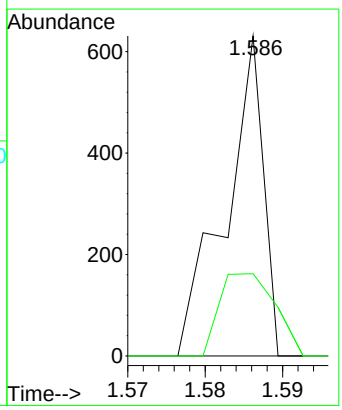
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

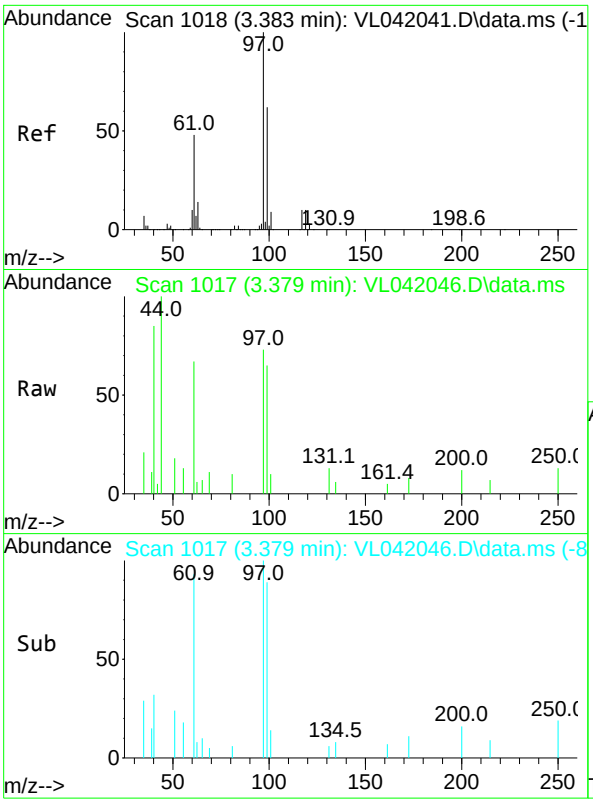


#5
Vinyl Chloride
Concen: 0.017 ppbv
RT: 1.586 min Scan# 463
Delta R.T. -0.000 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion: 62 Resp: 215

Ion	Ratio	Lower	Upper
62	100		
64	25.7	25.3	37.9

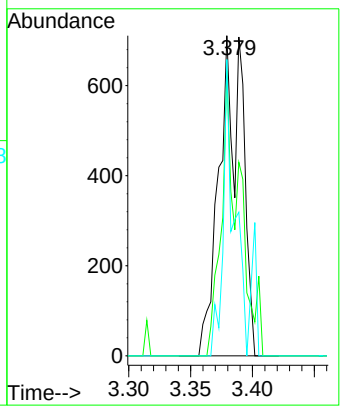




#32
1,1,1-Trichloroethane
Concen: 0.020 ppbv m
RT: 3.379 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion: 97 Resp: 92

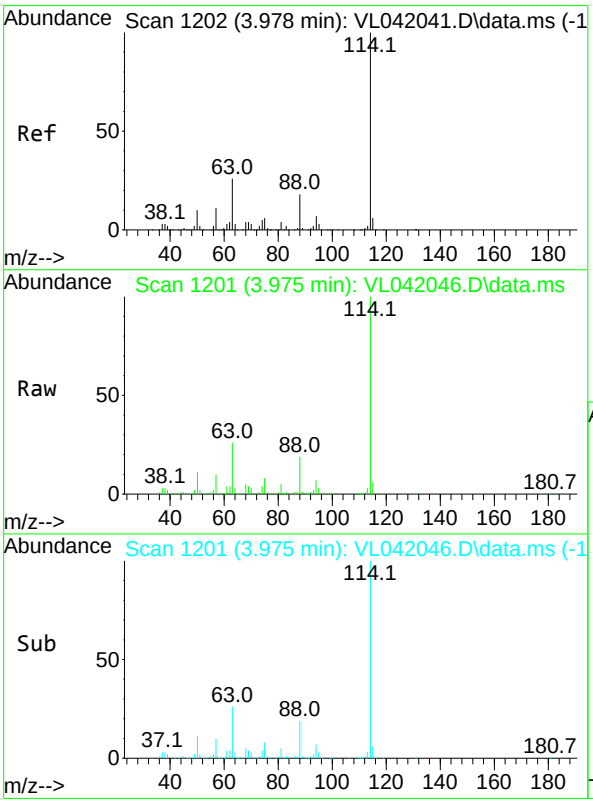
Ion	Ratio	Lower	Upper
97	100		
99	71.2	49.8	74.6
61	54.6	38.9	58.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

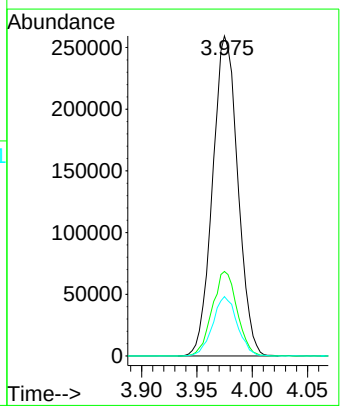
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

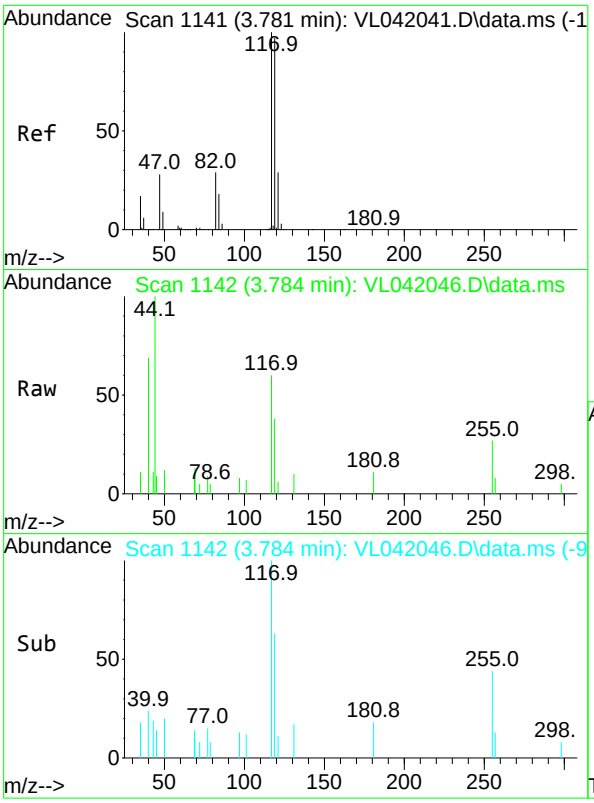


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion:114 Resp: 410900

Ion	Ratio	Lower	Upper
114	100		
63	26.1	20.1	30.1
88	18.1	14.3	21.5

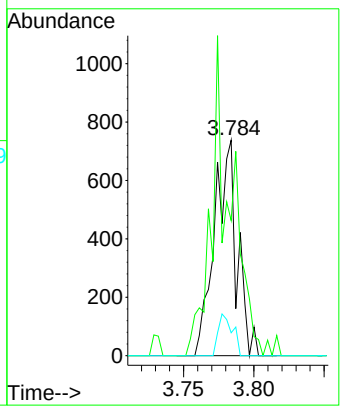




#35
Carbon Tetrachloride
Concen: 0.021 ppbv m
RT: 3.784 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion:117 Resp: 81

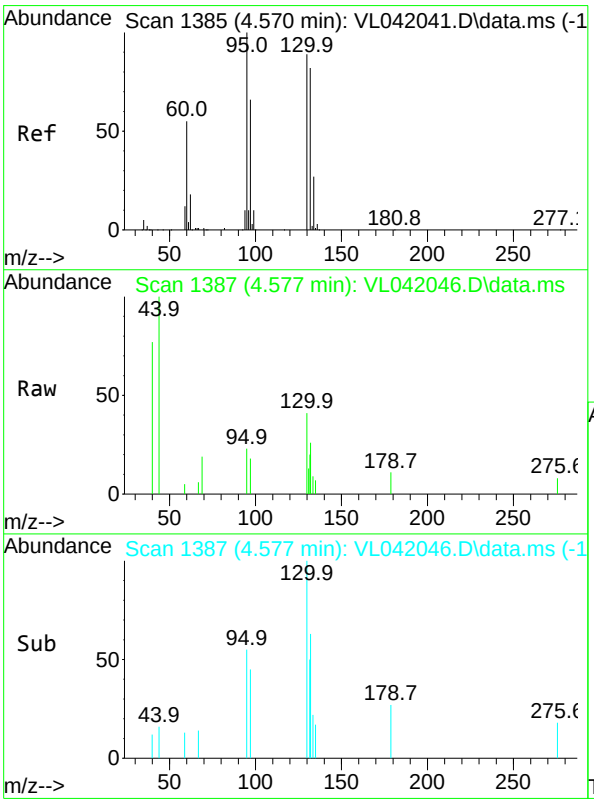
Ion	Ratio	Lower	Upper
117	100		
119	62.7	77.8	116.8#
121	10.6	23.4	35.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

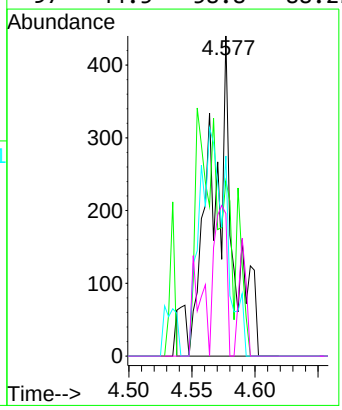
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

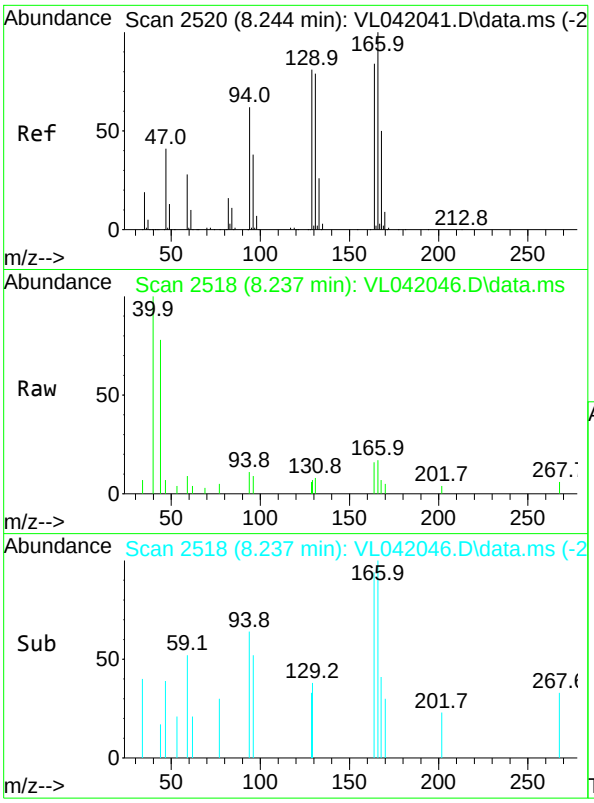


#38
Trichloroethene
Concen: 0.027 ppbv m
RT: 4.577 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion:130 Resp: 551

Ion	Ratio	Lower	Upper
130	100		
95	54.8	89.5	134.3#
132	62.5	73.8	110.6#
97	44.5	58.8	88.2#

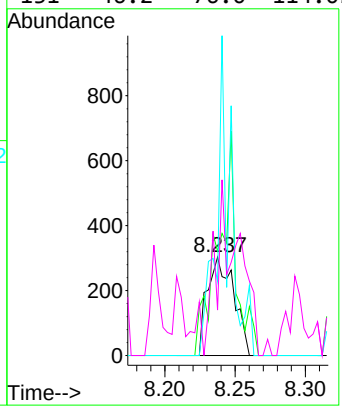




#52
Tetrachloroethene
Concen: 0.023 ppbv m
RT: 8.237 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion:164 Resp: 39

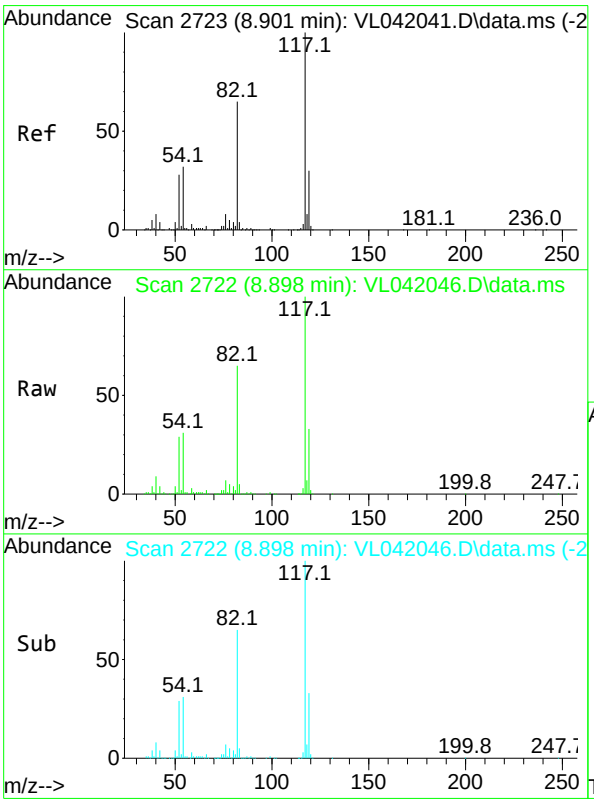
Ion	Ratio	Lower	Upper
164	100		
166	106.3	95.7	143.5
129	40.3	77.1	115.7#
131	46.2	76.0	114.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

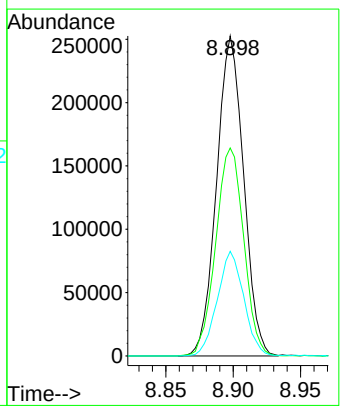
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

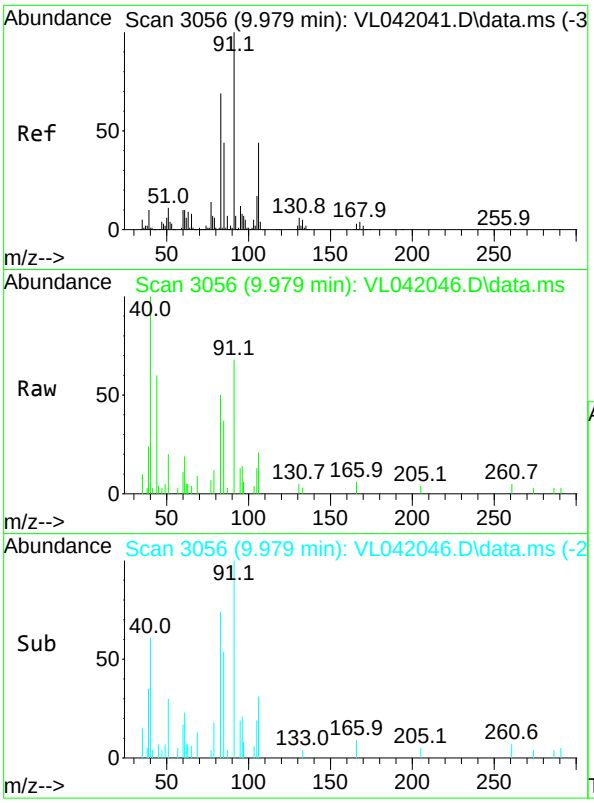


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion:117 Resp: 353154

Ion	Ratio	Lower	Upper
117	100		
82	67.3	55.0	82.6
119	32.2	25.9	38.9

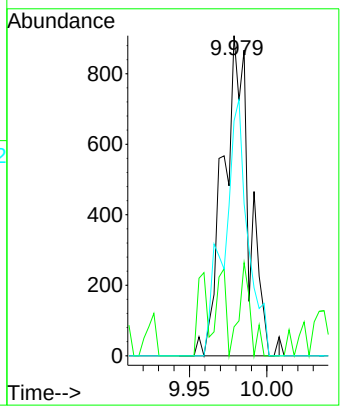




#63
1,1,2-Tetrachloroethane
Concen: 0.027 ppbv m
RT: 9.979 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion: 83 Resp: 105

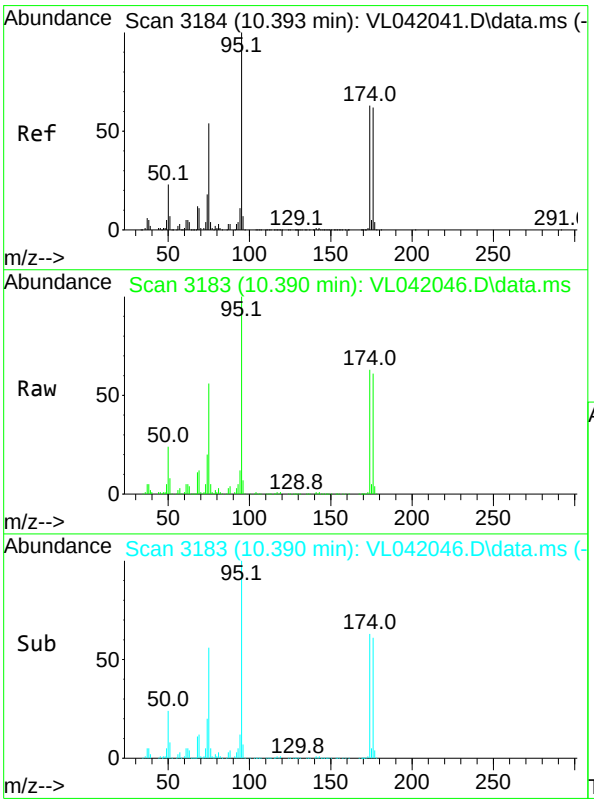
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.5	13.7#
85	0.0	32.1	96.3#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

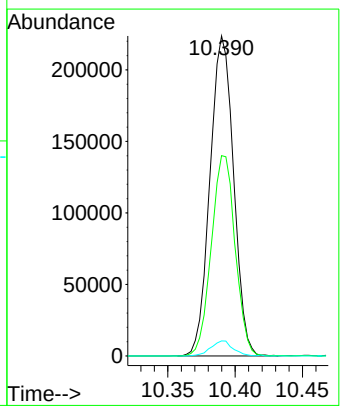
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.368 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion: 95 Resp: 272906

Ion	Ratio	Lower	Upper
95	100		
174	63.3	51.8	77.6
175	4.5	3.9	5.9



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	159015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	401919	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	351637	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	273846	9.441	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	231978	8.474	ppbv	99
3) Chlorodifluoromethane	1.479	51	324821	10.733	ppbv	100
4) Chloromethane	1.537	50	82097	7.718	ppbv	98
5) Vinyl Chloride	1.586	62	81863	6.436	ppbv	99
6) Bromomethane	1.673	94	39366	7.983	ppbv	97
7) Chloroethane	1.709	64	33329	8.039	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	188716	7.837	ppbv	98
9) Propene	1.489	41	133086	10.201	ppbv	97
10) Heptane	5.004	43	400418	11.052	ppbv	99
11) Trichlorofluoromethane	1.884	101	230938	8.383	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	184306	8.579	ppbv	99
13) Ethanol	1.725	45	4281	2.909	ppbv	100
14) Bromoethene	1.787	108	65496	8.164	ppbv	99
15) Acetone	1.842	43	172538	6.574	ppbv	98
16) 1,3-Butadiene	1.615	39	87490	7.027	ppbv	100
17) tert-Butyl alcohol	2.049	59	239569	7.377	ppbv	98
18) 1,1-Dichloroethene	2.042	96	80535	7.845	ppbv	98
19) Isopropyl Alcohol	1.894	45	102365	6.955	ppbv	99
20) Methylene Chloride	2.068	84	66282	6.709	ppbv	98
21) Allyl Chloride	2.104	41	140726	7.406	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	94321	8.466	ppbv	95
23) Vinyl Acetate	2.473	43	139727	9.831	ppbv	99
24) 1,1-Dichloroethane	2.418	63	180882	7.997	ppbv	99
25) Ethyl Acetate	2.848	43	767353	10.652	ppbv	99
26) Hexane	2.839	57	306864	10.615	ppbv	99
27) Carbon Disulfide	2.159	76	224609	8.261	ppbv	98
28) Methyl tert-Butyl Ether	2.453	73	168058	9.510	ppbv	98
29) Chloroform	2.861	83	409240	9.774	ppbv	100
30) Cyclohexane	3.874	84	256687	10.946	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	299324	10.476	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	417615	8.994	ppbv	98
34) 2-Butanone	2.570	43	457602	13.234	ppbv	98
35) Carbon Tetrachloride	3.780	117	410730	10.524	ppbv	96
36) Benzene	3.674	78	602107	12.367	ppbv	97
37) 1,2-Dichloroethane	3.233	62	335275	12.097	ppbv	99
38) Trichloroethene	4.573	130	228298	11.542	ppbv	98
39) 1,2-Dichloropropane	4.337	63	228418	12.797	ppbv	98
40) 1,4-Dioxane	4.609	88	104519	11.253	ppbv #	96
41) Tetrahydrofuran	3.068	42	271202	13.724	ppbv	100
42) Bromodichloromethane	4.512	83	461272	12.285	ppbv	96
43) Methyl Methacrylate	4.907	69	246468	11.105	ppbv	97
44) 2,2,4-Trimethylpentane	4.667	57	1054880	12.763	ppbv	99
45) t-1,3-Dichloropropene	6.444	75	249612	11.914	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	317266	11.935	ppbv		98
47) 1,1,2-Trichloroethane	6.609	97	226021	12.032	ppbv		95
48) Dibromochloromethane	7.412	129	369666	11.750	ppbv		99
49) Bromoform	9.503	173	317322	12.297	ppbv		99
50) 4-Methyl-2-Pentanone	5.787	43	650307	12.237	ppbv		99
51) 2-Hexanone	7.461	43	530165	12.198	ppbv	#	100
52) Tetrachloroethene	8.247	164	203233	11.968	ppbv		94
53) Toluene	6.959	91	673822	11.615	ppbv		99
54) 1,2-Dibromoethane	7.677	107	309982	11.985	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.946	131	276326	10.979	ppbv		99
57) Chlorobenzene	8.943	112	494606	11.957	ppbv		98
58) Ethyl Benzene	9.373	91	922265	11.984	ppbv		100
59) m/p-Xylene	9.571	91	1456036m	24.020	ppbv		
60) o-Xylene	9.982	91	712735	11.626	ppbv		99
61) Styrene	9.888	104	363855	12.446	ppbv		99
62) Isopropylbenzene	10.558	105	1068777	11.612	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.982	83	459839	11.626	ppbv		100
64) n-propylbenzene	11.005	120	282364	12.486	ppbv		99
65) tert-Butylbenzene	11.548	119	924810	11.526	ppbv		99
66) Benzyl Chloride	11.633	91	78975	9.819	ppbv		98
67) sec-Butylbenzene	11.785	105	1315730	11.674	ppbv		99
69) p-Isopropyltoluene	11.940	119	1084253	11.752	ppbv		99
70) n-Butylbenzene	12.296	91	1118373	12.306	ppbv		99
71) 2-Chlorotoluene	10.917	91	818204	11.804	ppbv		100
72) 4-Ethyltoluene	11.141	105	880883	12.264	ppbv		99
73) 1,3,5-Trimethylbenzene	11.218	105	738619	11.921	ppbv		98
74) 1,2,4-Trimethylbenzene	11.552	105	784701	11.801	ppbv		91
75) 1,3-Dichlorobenzene	11.623	146	465436	13.003	ppbv		98
76) 1,4-Dichlorobenzene	11.688	146	467249	13.386	ppbv		99
77) 1,2-Dichlorobenzene	11.963	146	449222	13.129	ppbv		98
78) Hexachloro-1,3-Butadiene	13.895	225	351085	12.403	ppbv		100
79) Naphthalene	13.526	128	764990	11.696	ppbv		99
80) Naphthalene,2-methyl-	14.471	142	324431	10.956	ppbv		99
81) 1,2,4-Trichlorobenzene	13.455	180	354990	13.351	ppbv		99

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

Quantitation Report (QT Reviewed)

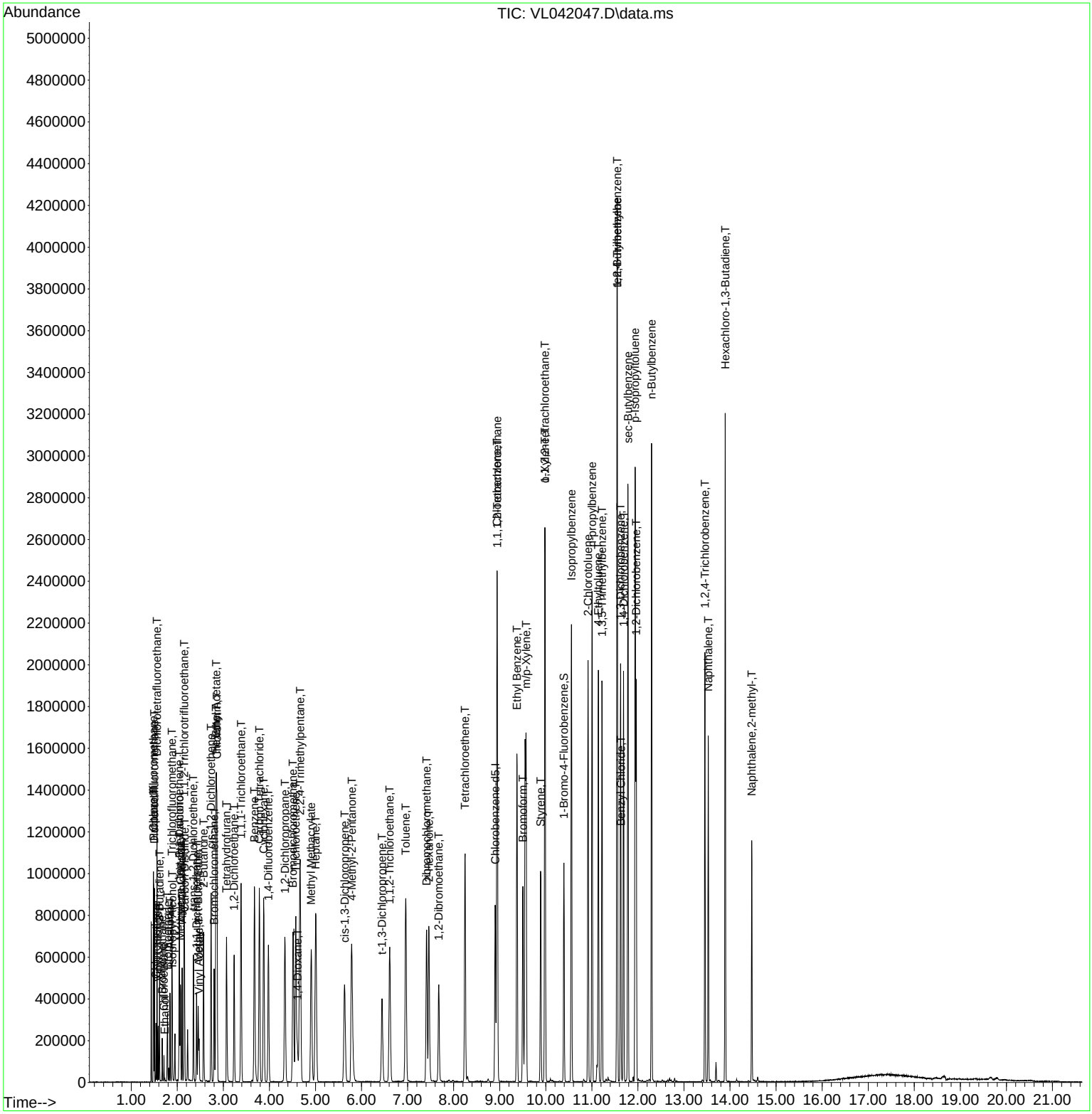
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

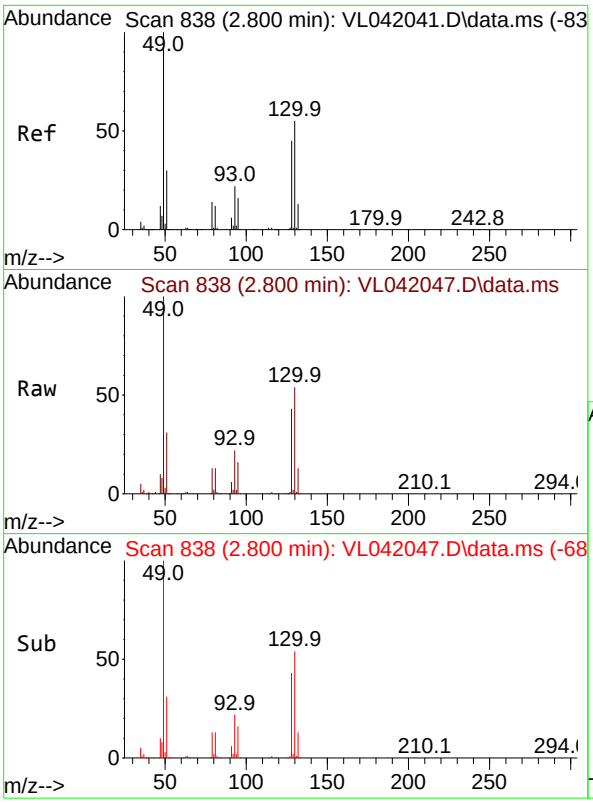
Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

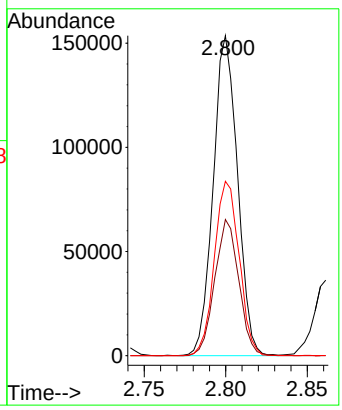




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 49 Resp: 15901

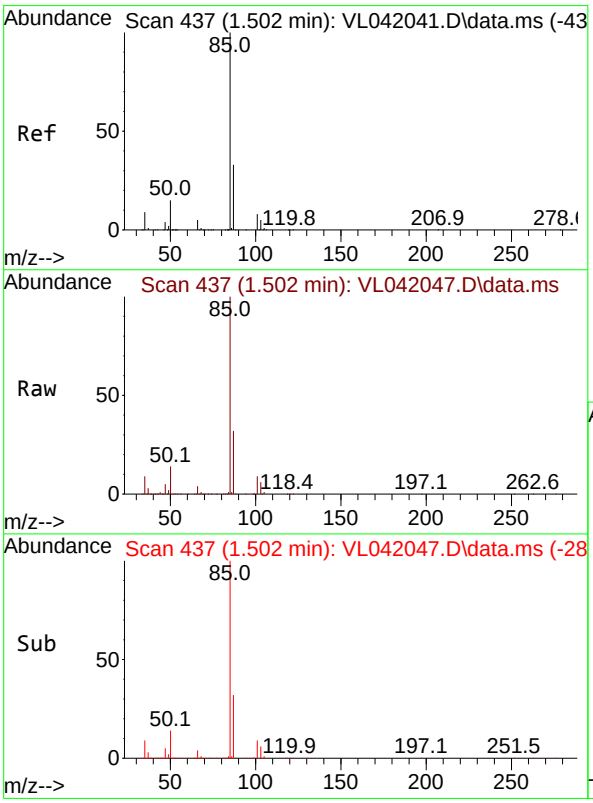
Ion	Ratio	Lower	Upper
49	100		
128	42.1	21.6	64.8
130	55.6	27.8	83.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

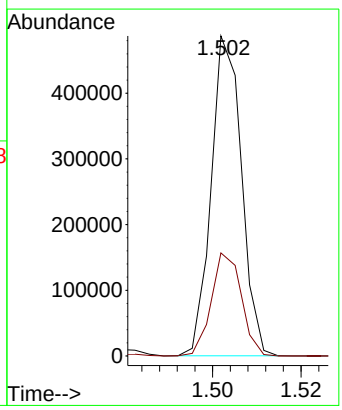
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

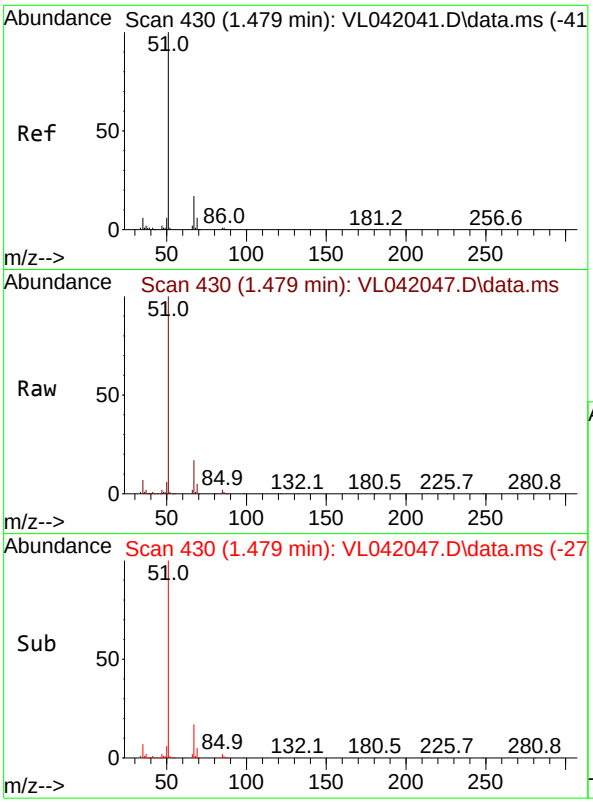


#2
Dichlorodifluoromethane
Concen: 8.474 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 85 Resp: 231978

Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.4	39.6

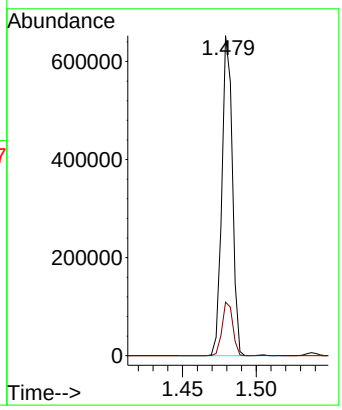




#3
Chlorodifluoromethane
Concen: 10.733 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 51 Resp: 32482

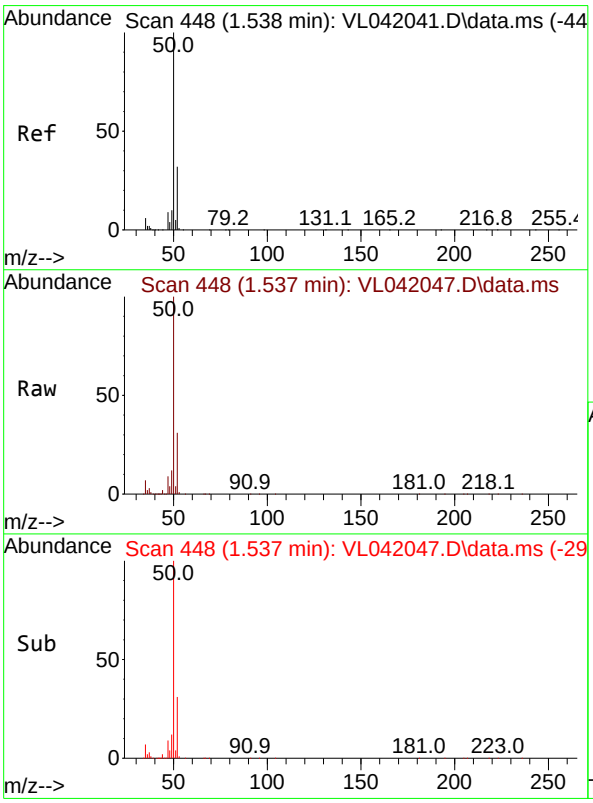
Ion	Ratio	Lower	Upper
51	100		
67	17.1	13.7	20.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

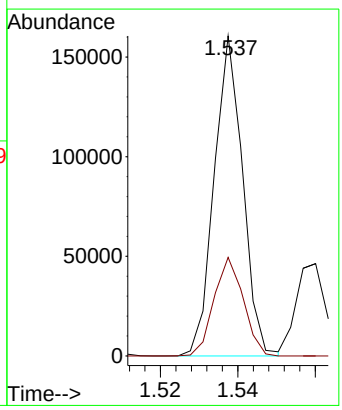
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

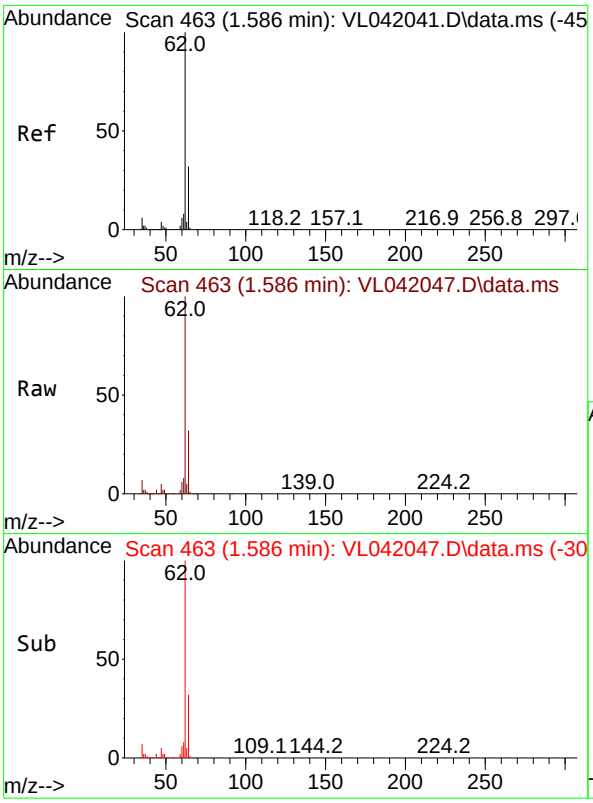


#4
Chloromethane
Concen: 7.718 ppbv
RT: 1.537 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 50 Resp: 82097

Ion	Ratio	Lower	Upper
50	100		
52	30.8	25.4	38.0

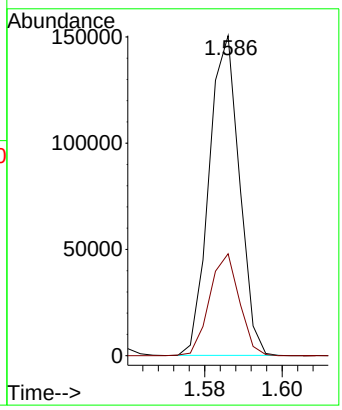




#5
Vinyl Chloride
Concen: 6.436 ppbv
RT: 1.586 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 62 Resp: 8186

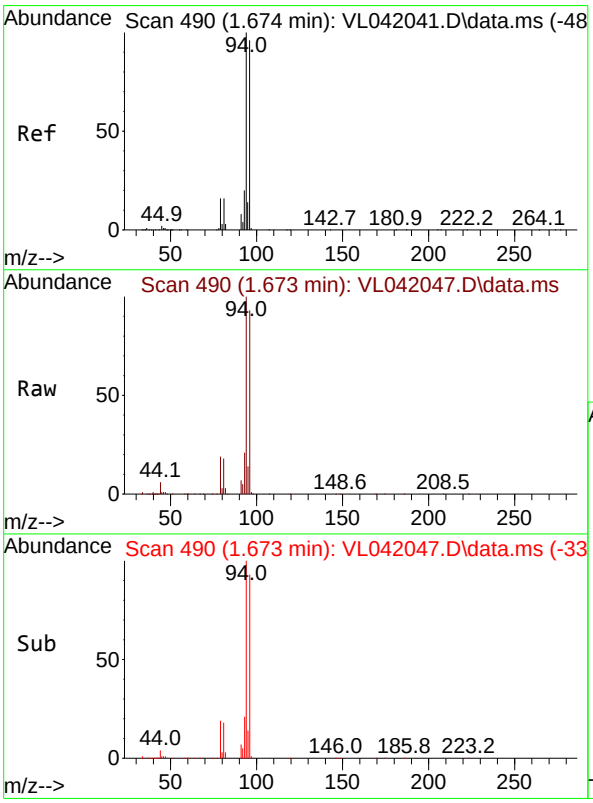
Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.3	37.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

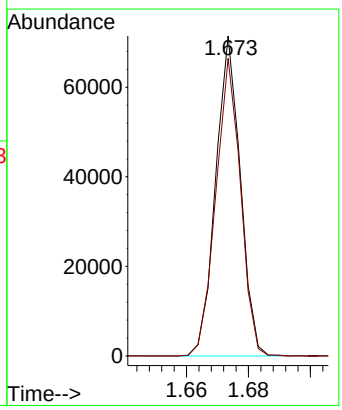
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

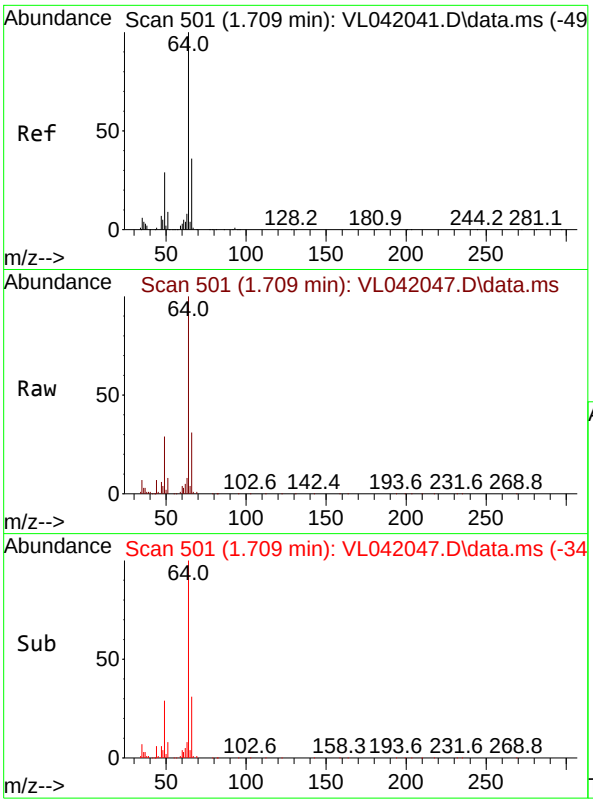


#6
Bromomethane
Concen: 7.983 ppbv
RT: 1.673 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 94 Resp: 39366

Ion	Ratio	Lower	Upper
94	100		
96	93.0	76.5	114.7

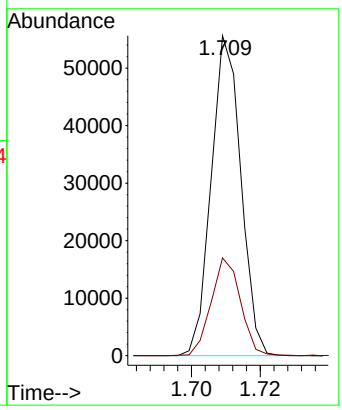




#7
Chloroethane
Concen: 8.039 ppbv
RT: 1.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 64 Resp: 3332

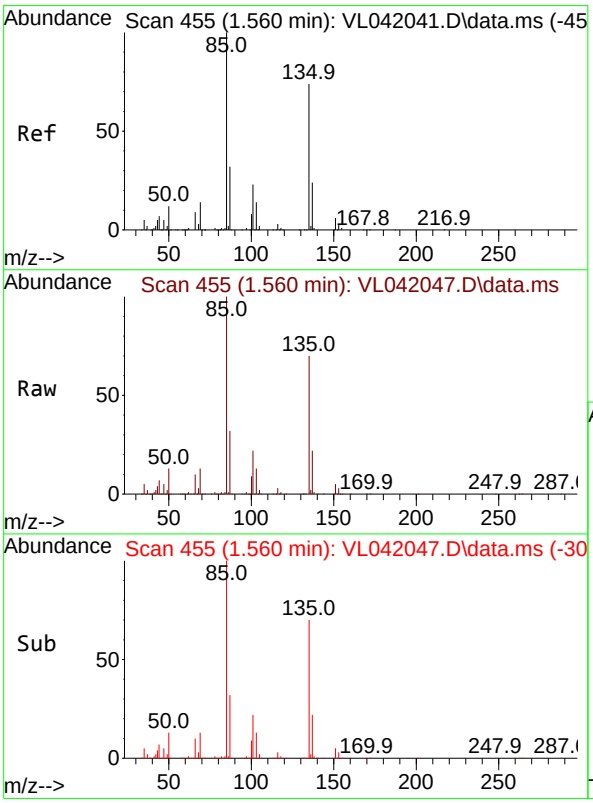
Ion	Ratio	Lower	Upper
64	100		
66	30.6	28.4	42.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

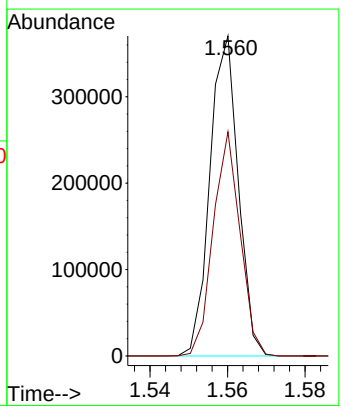
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

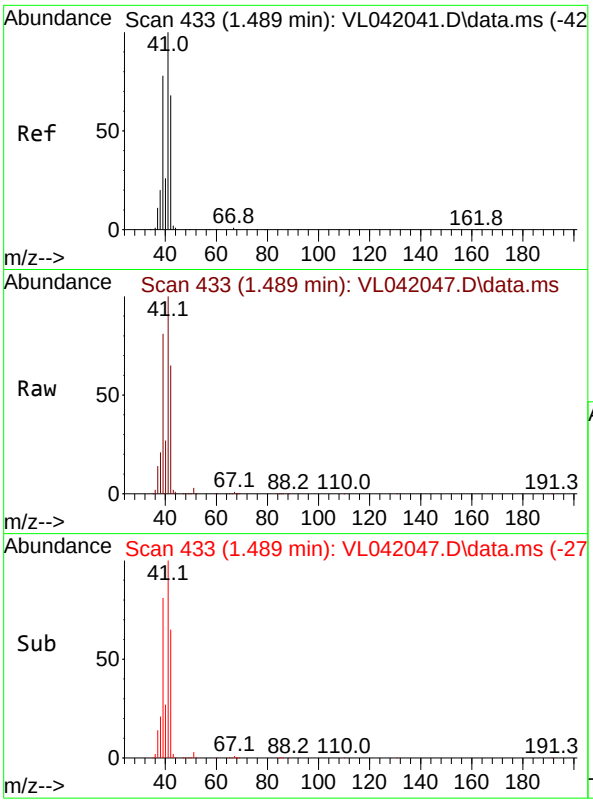


#8
Dichlorotetrafluoroethane
Concen: 7.837 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 85 Resp: 188716

Ion	Ratio	Lower	Upper
85	100		
135	66.5	54.6	81.8

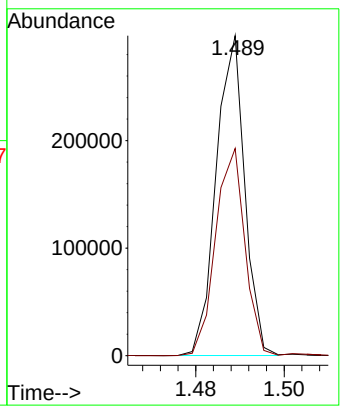




#9
Propene
Concen: 10.201 ppbv
RT: 1.489 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 41 Resp: 13308

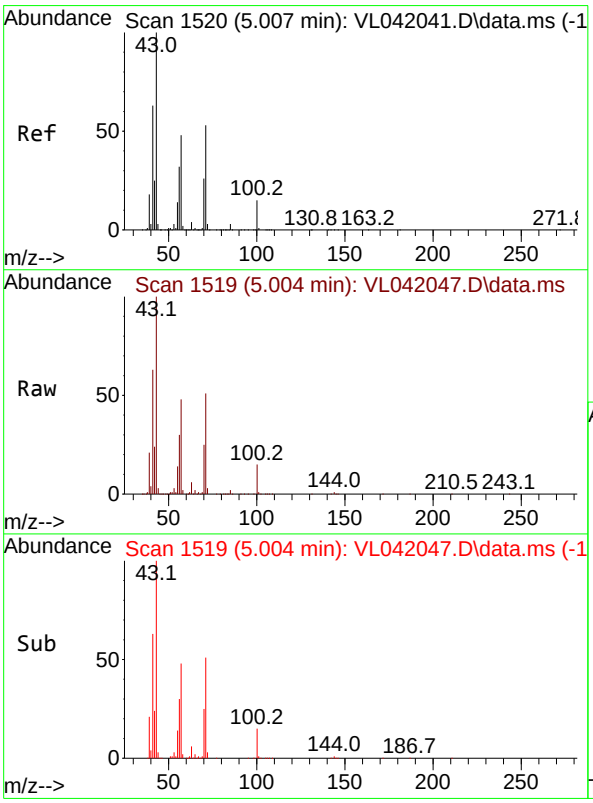
Ion	Ratio	Lower	Upper
41	100		
42	67.4	55.8	83.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

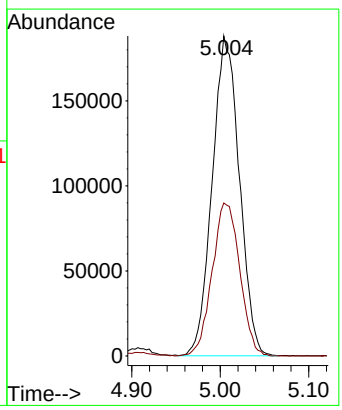
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

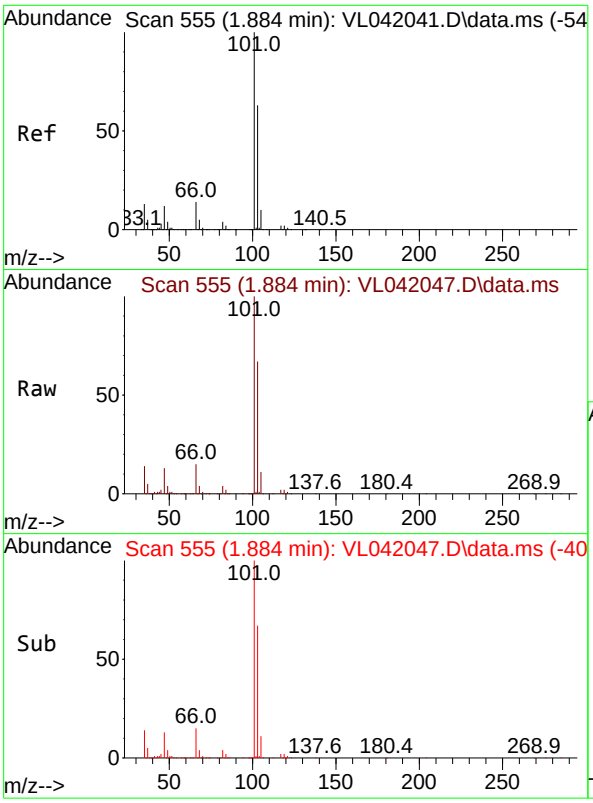


#10
Heptane
Concen: 11.052 ppbv
RT: 5.004 min Scan# 1519
Delta R.T. -0.004 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 400418

Ion	Ratio	Lower	Upper
43	100		
57	48.8	39.4	59.0

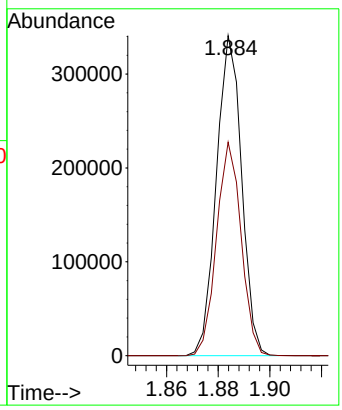




#11
Trichlorofluoromethane
Concen: 8.383 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:101 Resp: 23093

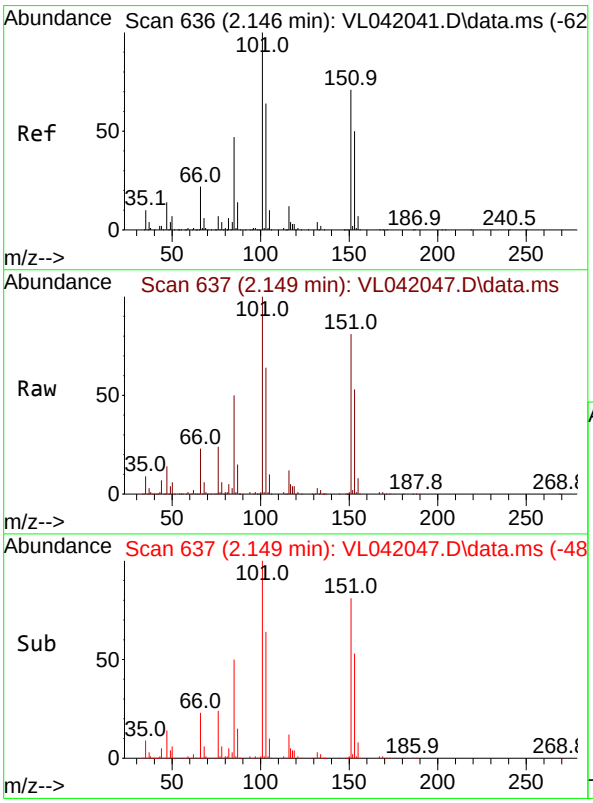
Ion	Ratio	Lower	Upper
101	100		
103	66.7	50.6	75.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

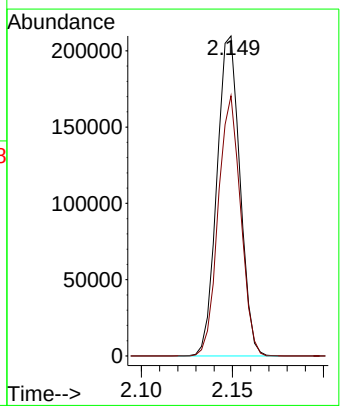
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

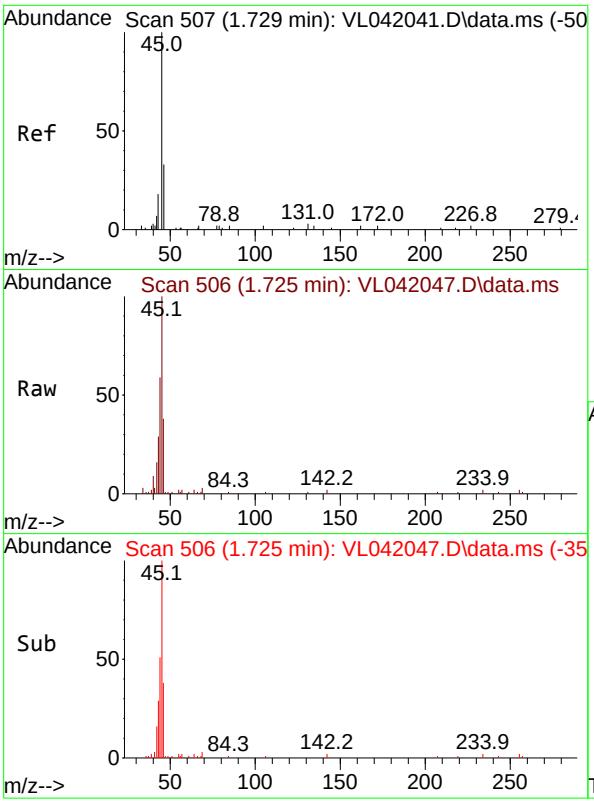


#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.579 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:101 Resp: 184306

Ion	Ratio	Lower	Upper
101	100		
151	79.1	62.6	94.0

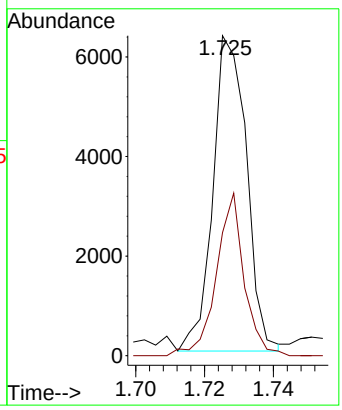




#13
Ethanol
Concen: 2.909 ppbv
RT: 1.725 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 45 Resp: 428

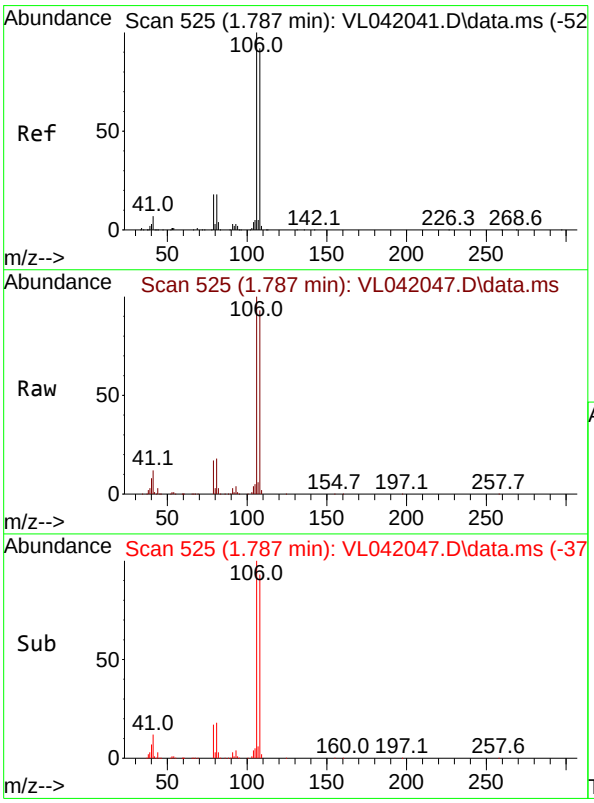
Ion	Ratio	Lower	Upper
45	100		
46	42.7	17.1	68.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

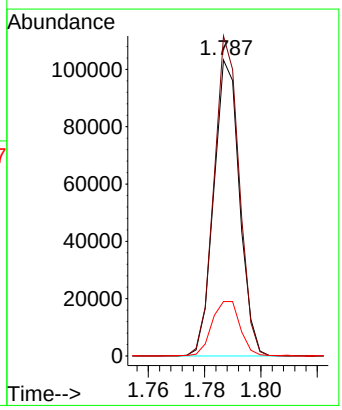
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

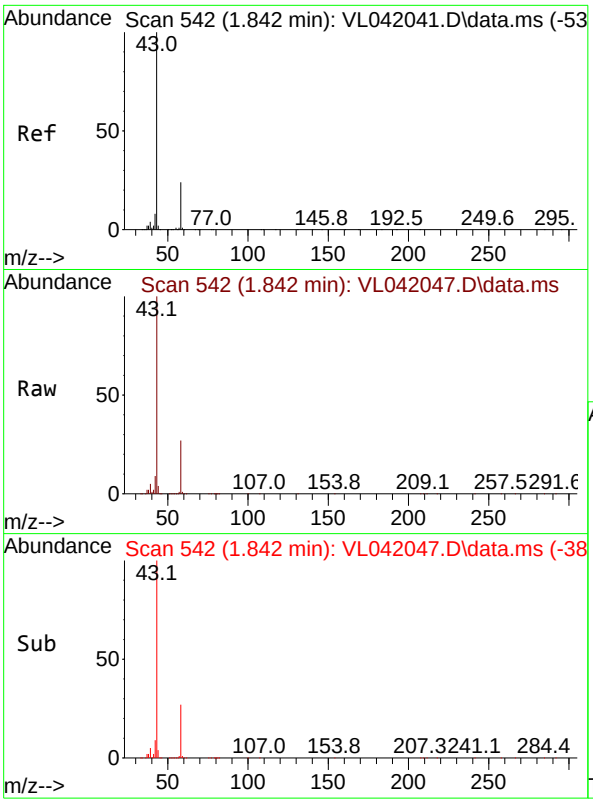


#14
Bromoethene
Concen: 8.164 ppbv
RT: 1.787 min Scan# 525
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:108 Resp: 65496

Ion	Ratio	Lower	Upper
108	100		
106	105.7	85.4	128.0
79	20.5	16.5	24.7

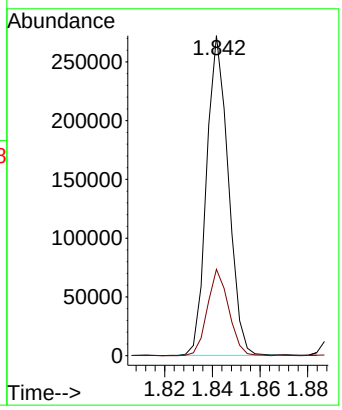




#15
Acetone
Concen: 6.574 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 17253

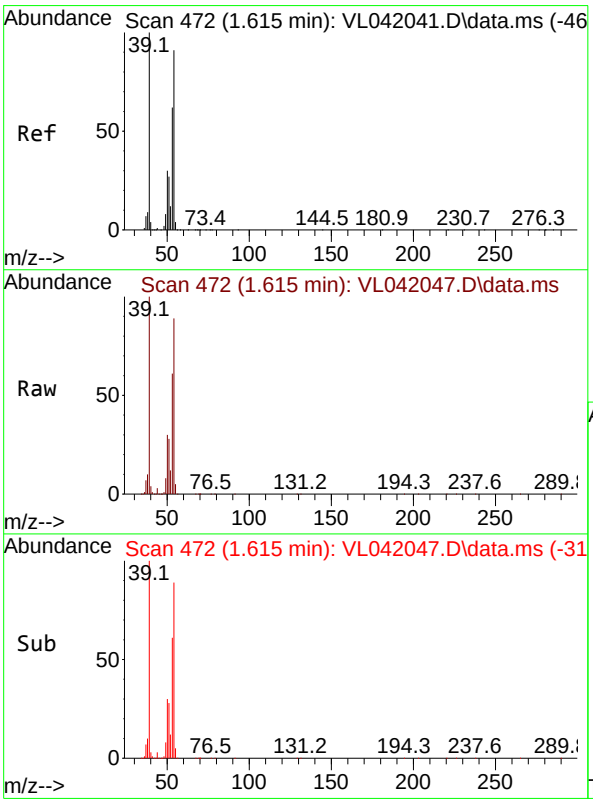
Ion	Ratio	Lower	Upper
43	100		
58	26.7	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

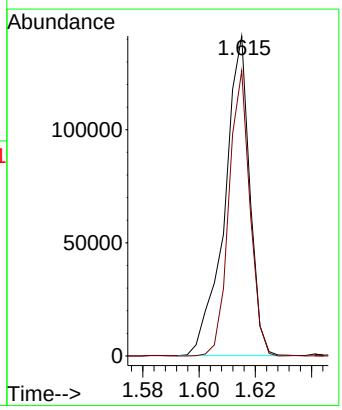
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

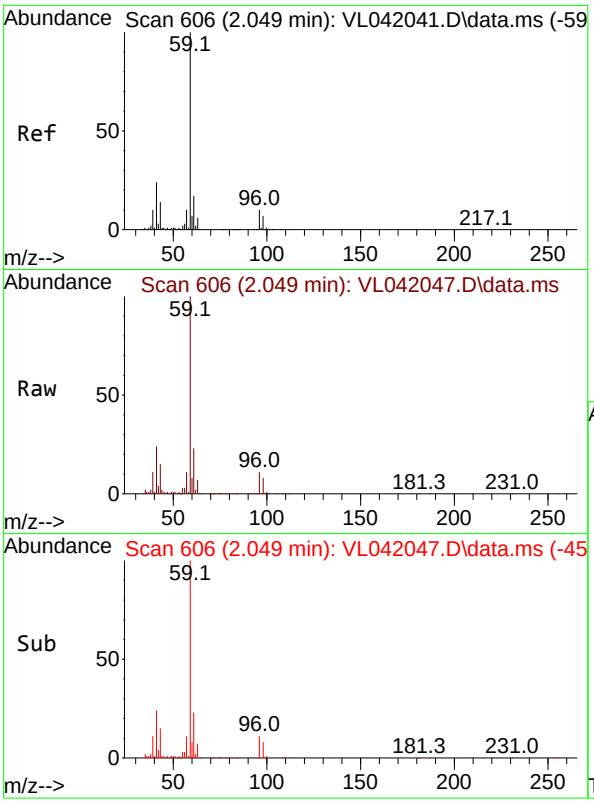


#16
1,3-Butadiene
Concen: 7.027 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 39 Resp: 87490

Ion	Ratio	Lower	Upper
39	100		
54	74.6	59.6	89.4

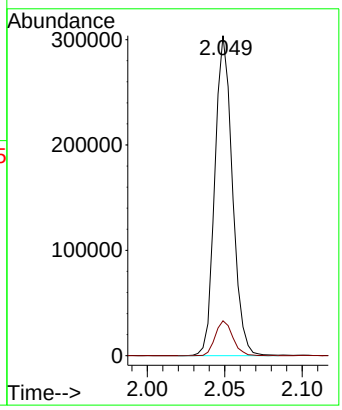




#17
tert-Butyl alcohol
Concen: 7.377 ppbv
RT: 2.049 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 59 Resp: 23956

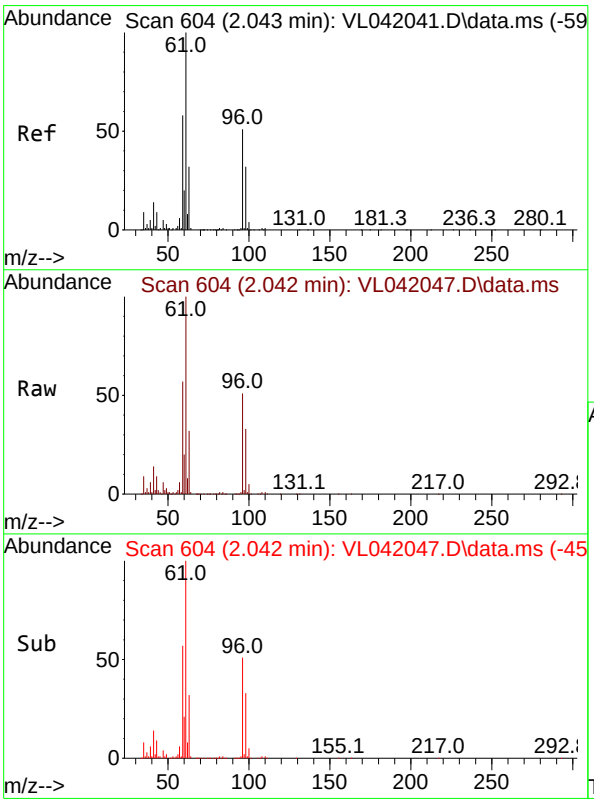
Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

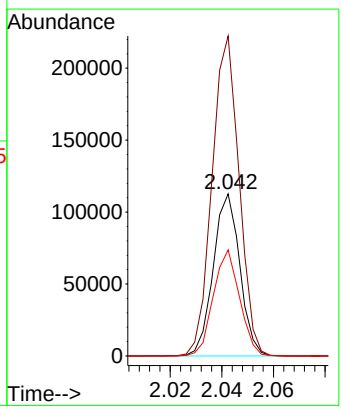
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

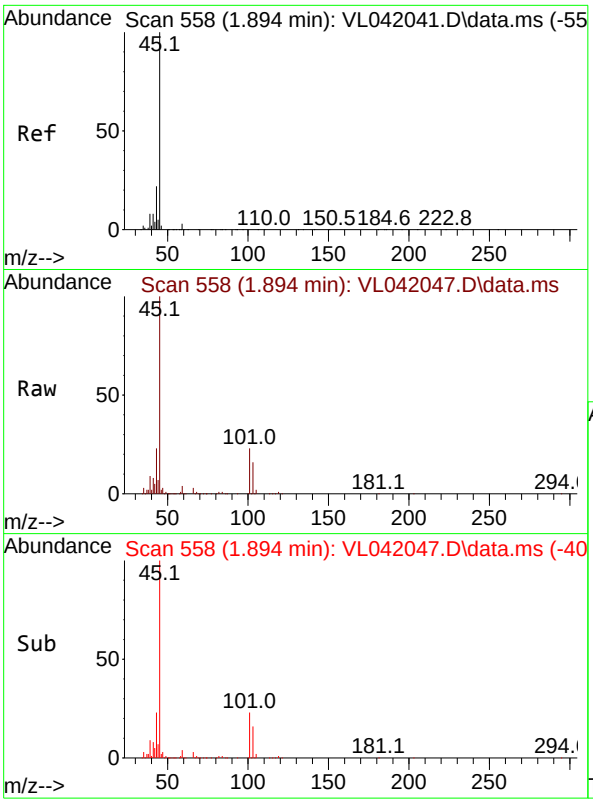


#18
1,1-Dichloroethene
Concen: 7.845 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 96 Resp: 80535

Ion	Ratio	Lower	Upper
96	100		
61	197.3	156.0	234.0
98	65.4	49.4	74.2





#19
Isopropyl Alcohol
Concen: 6.955 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

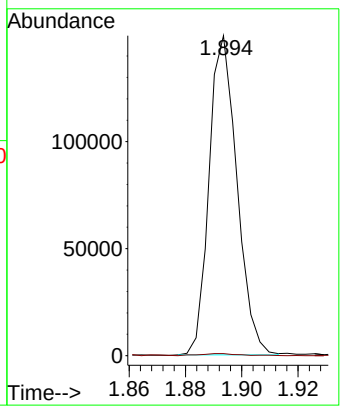
Tgt Ion: 45 Resp: 10236

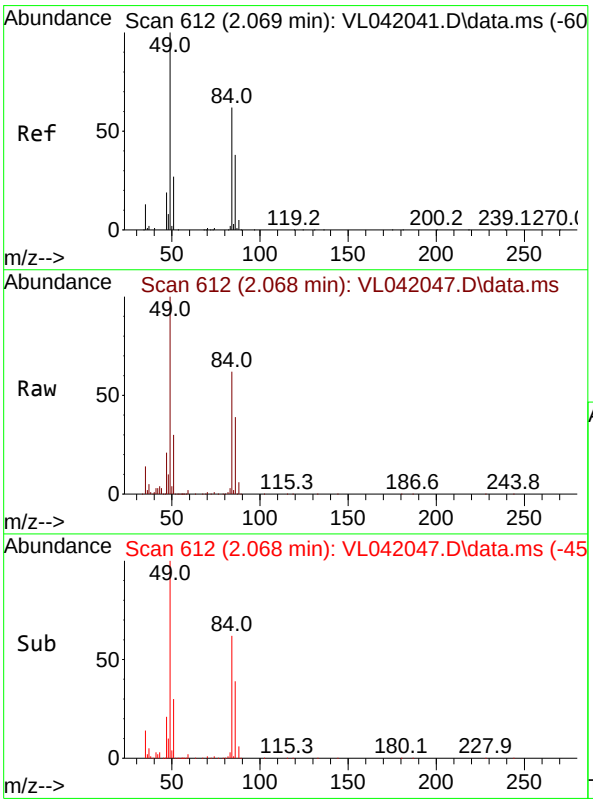
Ion	Ratio	Lower	Upper
45	100		
58	45.1	35.3	52.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

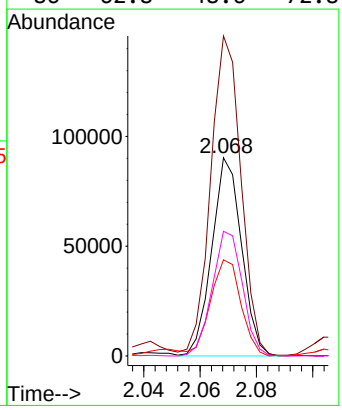


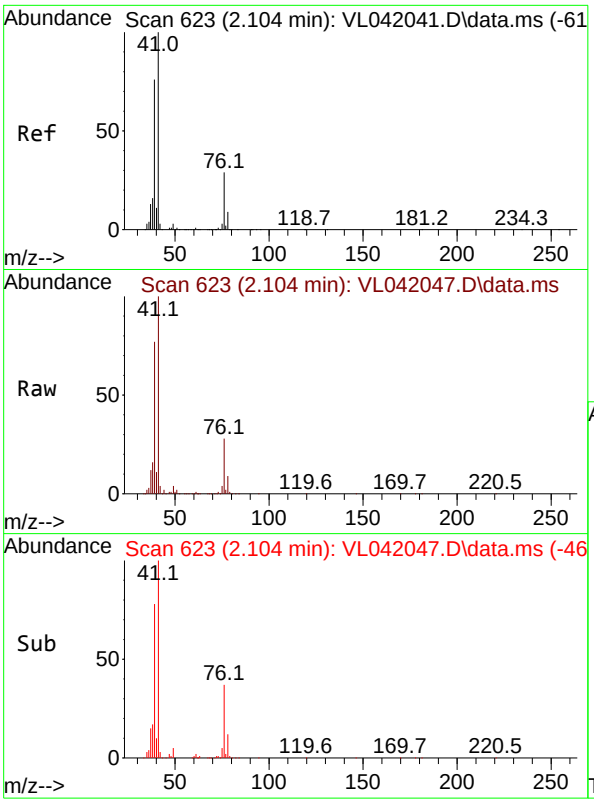


#20
Methylene Chloride
Concen: 6.709 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 84 Resp: 66282

Ion	Ratio	Lower	Upper
84	100		
49	161.0	130.0	195.0
51	48.1	37.4	56.0
86	62.8	48.6	72.8

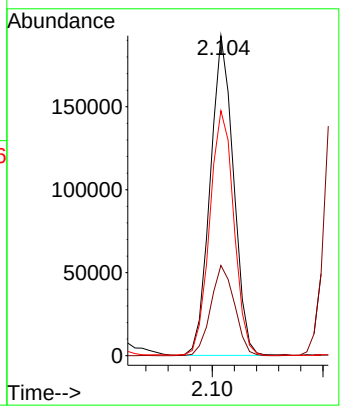




#21
Allyl Chloride
Concen: 7.406 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 41 Resp: 14072

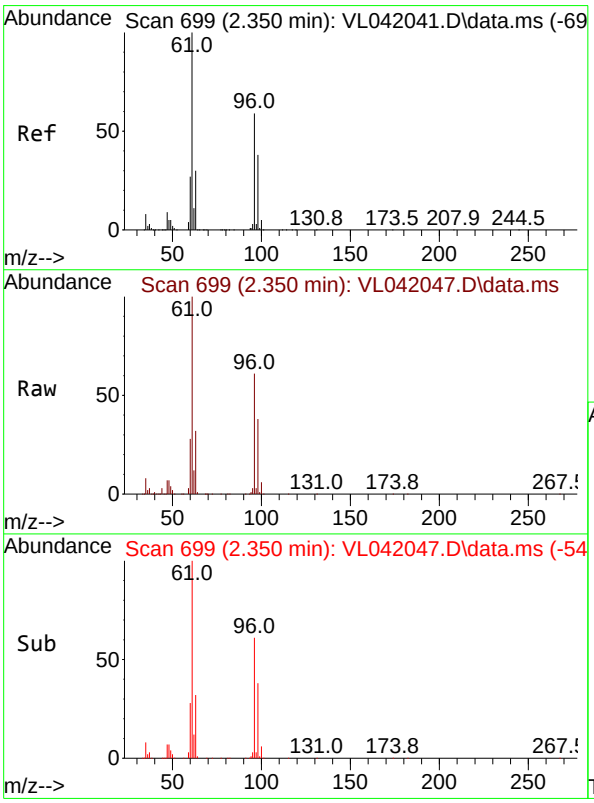
Ion	Ratio	Lower	Upper
41	100		
76	28.8	23.8	35.6
39	79.2	63.8	95.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

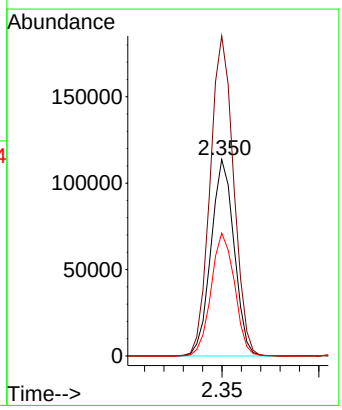
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

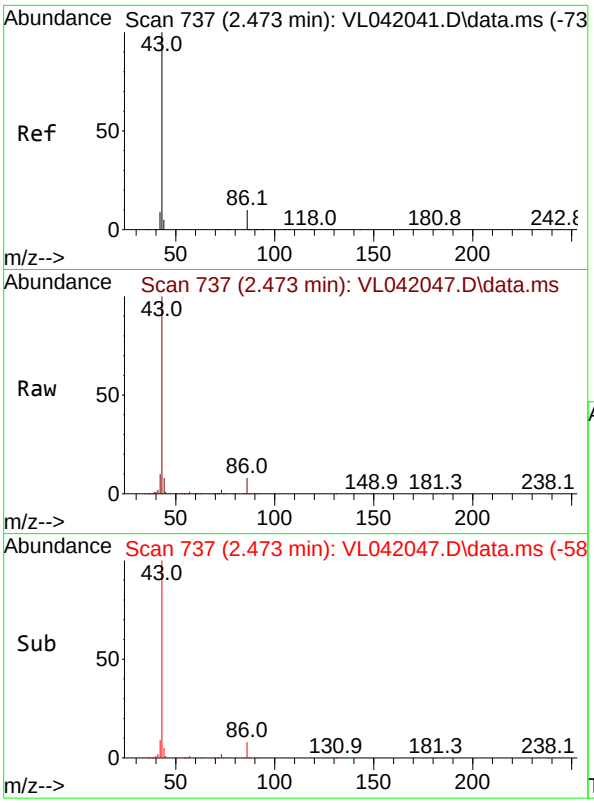


#22
trans-1,2-Dichloroethene
Concen: 8.466 ppbv
RT: 2.350 min Scan# 699
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 96 Resp: 94321

Ion	Ratio	Lower	Upper
96	100		
61	162.9	136.6	205.0
98	62.6	51.8	77.6

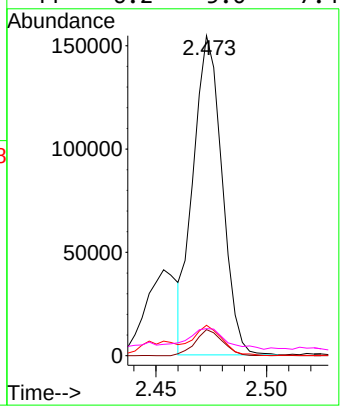




#23
Vinyl Acetate
Concen: 9.831 ppbv
RT: 2.473 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 13972

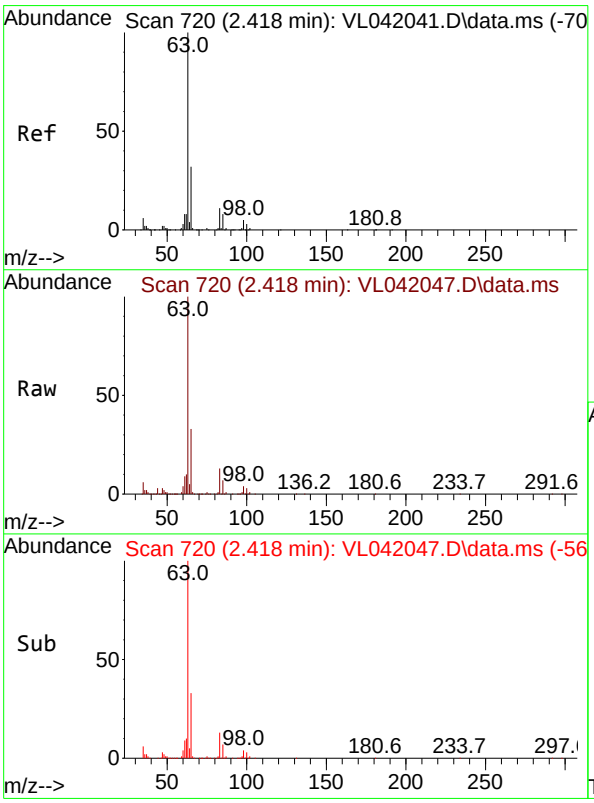
Ion	Ratio	Lower	Upper
43	100		
86	8.1	7.0	10.4
42	9.5	7.6	11.4
44	6.2	5.0	7.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

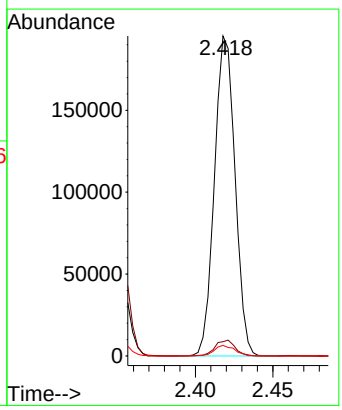
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

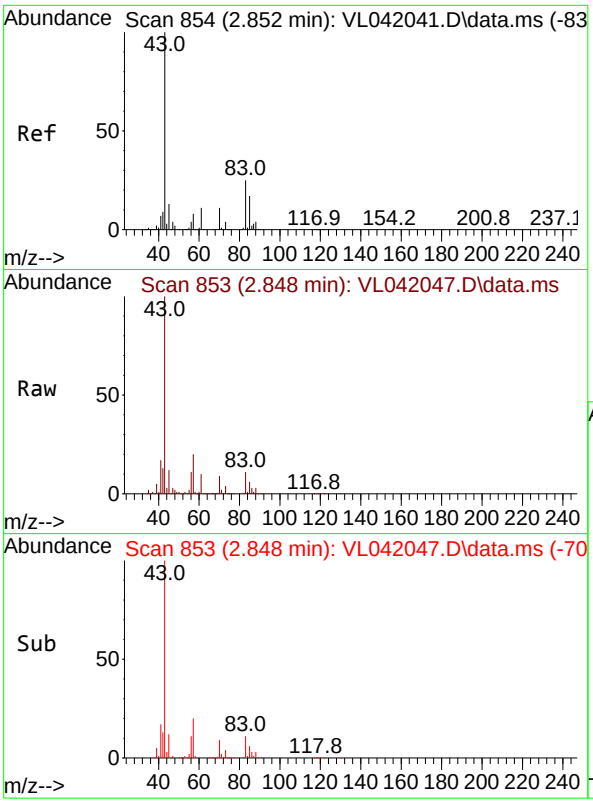


#24
1,1-Dichloroethane
Concen: 7.997 ppbv
RT: 2.418 min Scan# 720
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 63 Resp: 180882

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.4	7.2
100	3.3	1.7	5.0

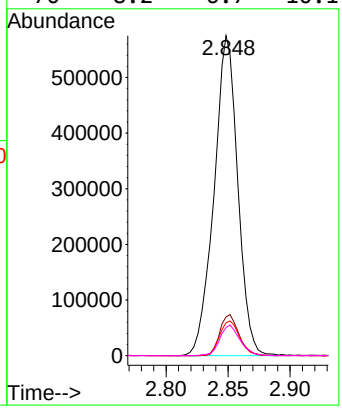




#25
Ethyl Acetate
Concen: 10.652 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 76735

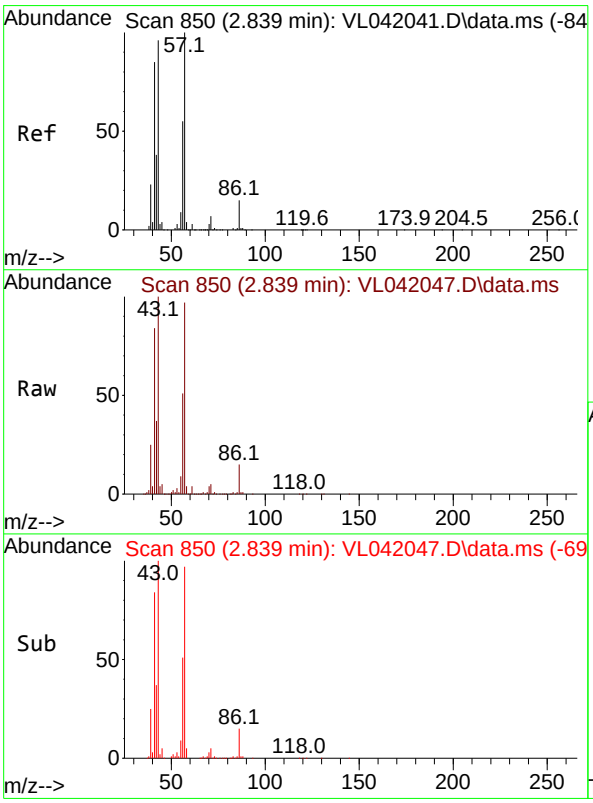
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.1	12.1
61	9.1	7.2	10.8
70	8.2	6.7	10.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

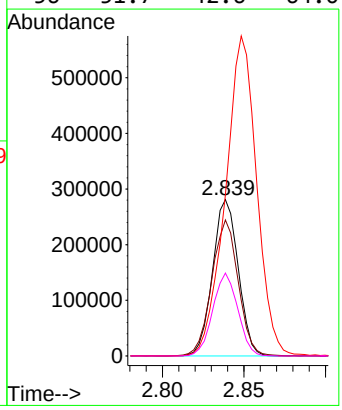
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

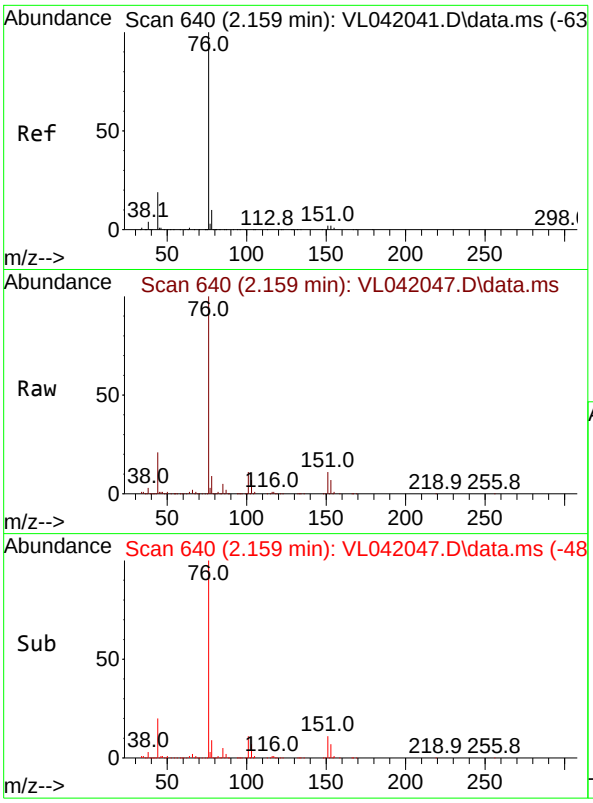


#26
Hexane
Concen: 10.615 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 57 Resp: 306864

Ion	Ratio	Lower	Upper
57	100		
41	89.9	70.6	106.0
43	250.3	199.4	299.0
56	51.7	42.6	64.0





#27
Carbon Disulfide
Concen: 8.261 ppbv
RT: 2.159 min Scan# 64
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

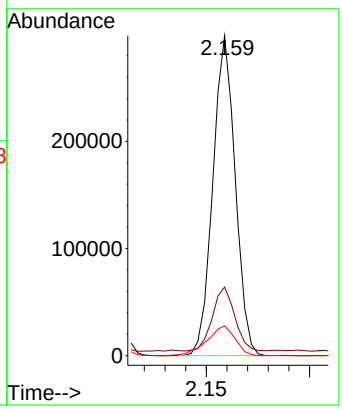
Tgt Ion: 76 Resp: 224609

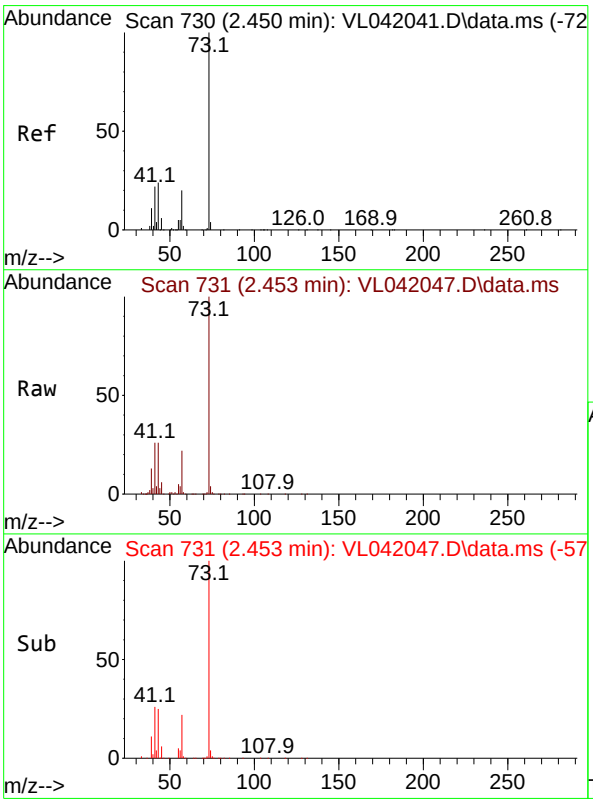
Ion	Ratio	Lower	Upper
76	100		
44	21.3	16.2	24.2
78	11.7	9.4	14.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

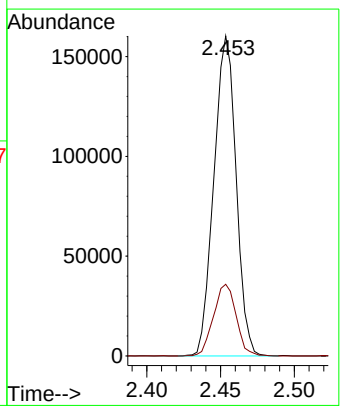


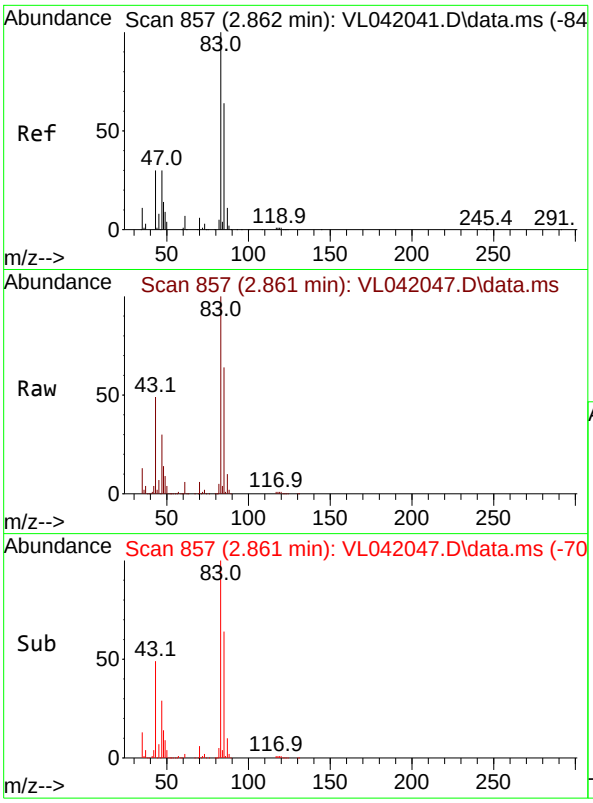


#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.453 min Scan# 731
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 73 Resp: 168058

Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.7	26.5

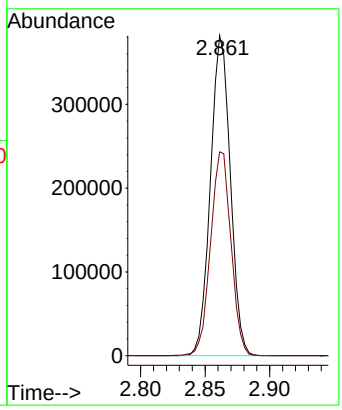




#29
Chloroform
Concen: 9.774 ppbv
RT: 2.861 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 83 Resp: 40924

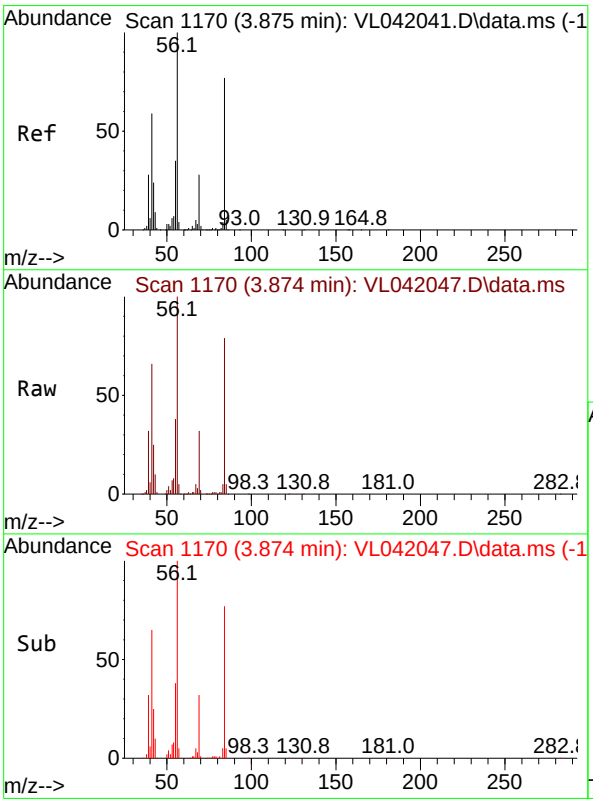
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.2	76.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

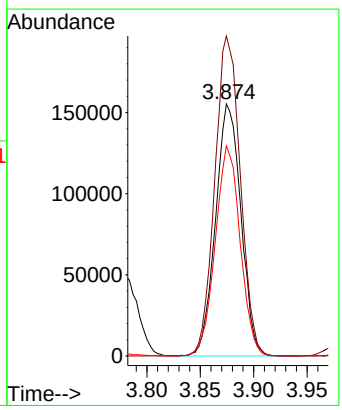
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

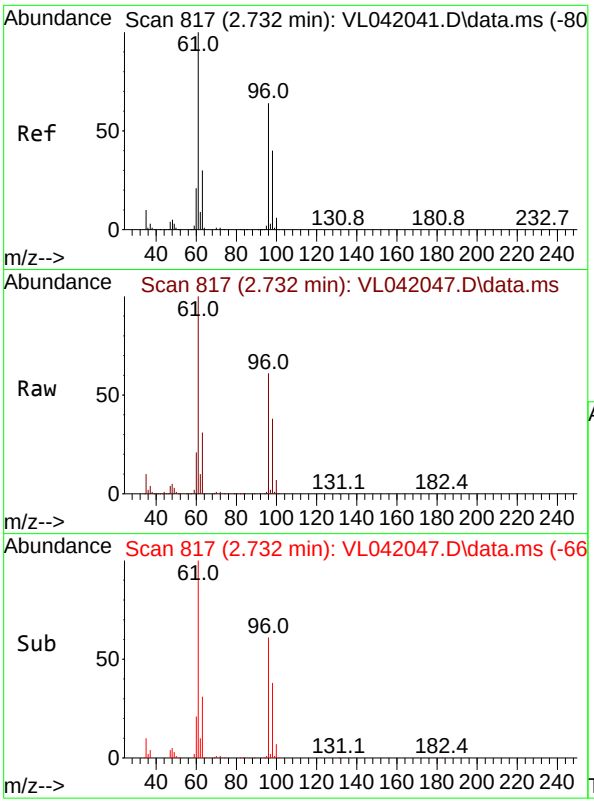


#30
Cyclohexane
Concen: 10.946 ppbv
RT: 3.874 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 84 Resp: 256687

Ion	Ratio	Lower	Upper
84	100		
56	127.5	101.5	152.3
41	81.7	62.6	93.8

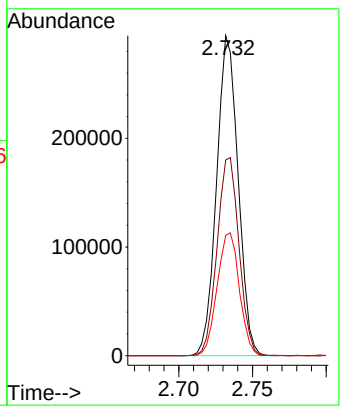




#31
cis-1,2-Dichloroethene
Concen: 10.476 ppbv
RT: 2.732 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 61 Resp: 29932

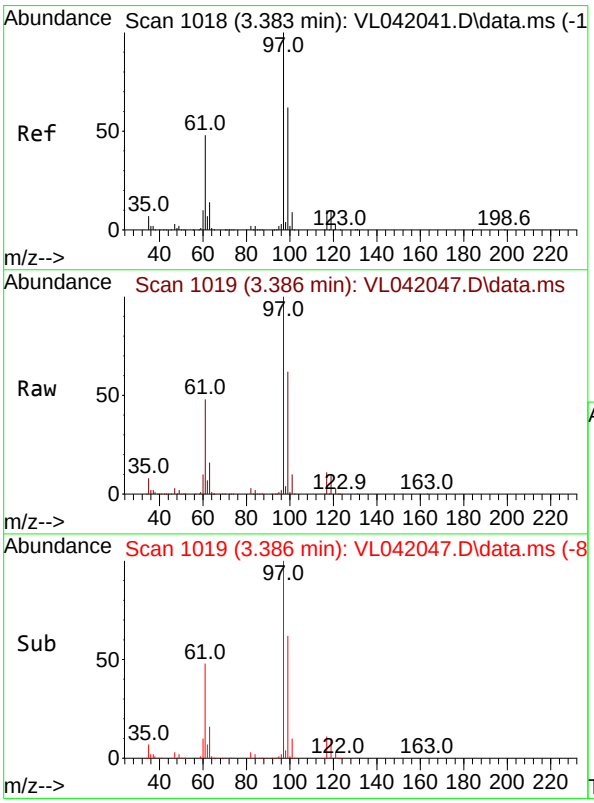
Ion	Ratio	Lower	Upper
61	100		
96	61.2	51.5	77.3
98	37.6	32.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

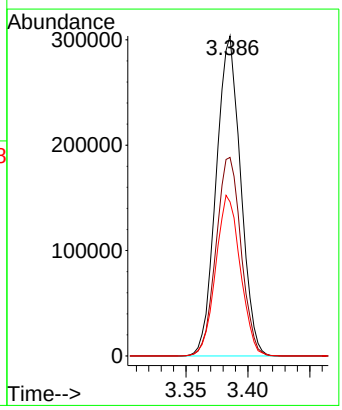
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

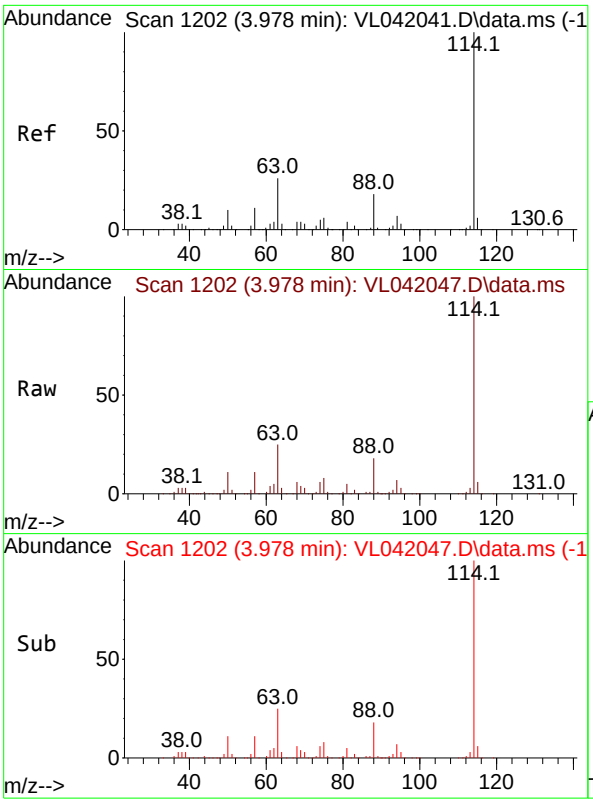


#32
1,1,1-Trichloroethane
Concen: 8.994 ppbv
RT: 3.386 min Scan# 1019
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 97 Resp: 417615

Ion	Ratio	Lower	Upper
97	100		
99	63.5	49.8	74.6
61	50.7	38.9	58.3

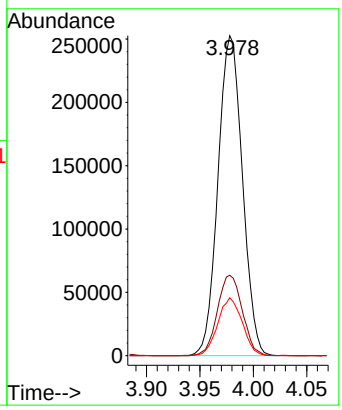




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:114 Resp: 401919

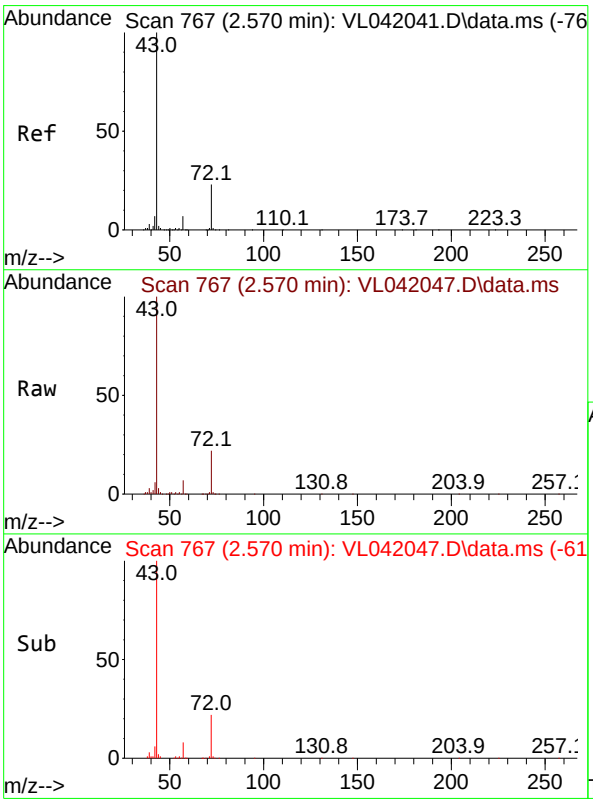
Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.1	30.1
88	18.1	14.3	21.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

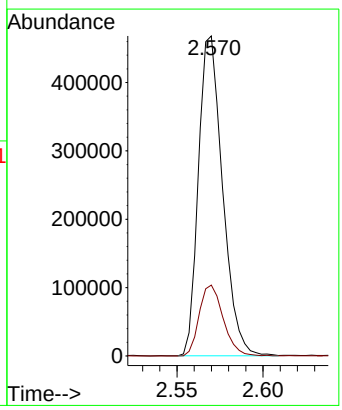
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

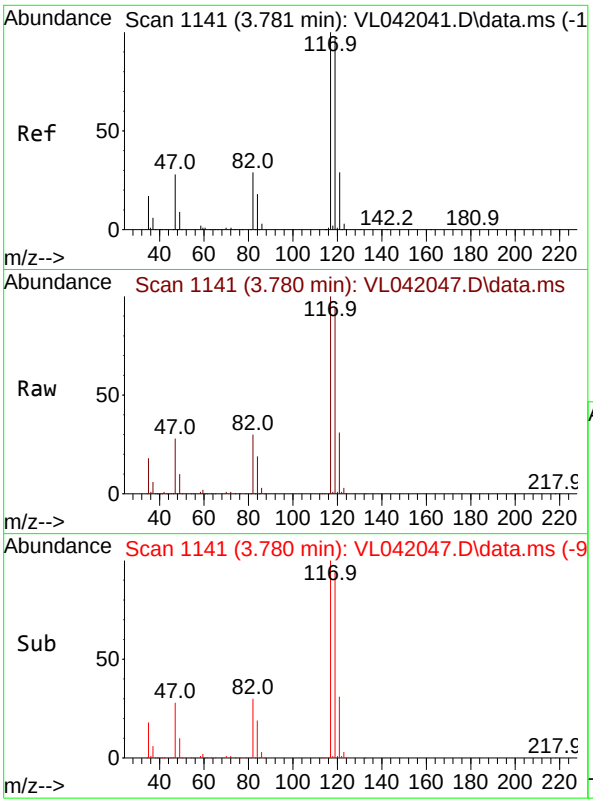


#34
2-Butanone
Concen: 13.234 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 457602

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.5	27.7

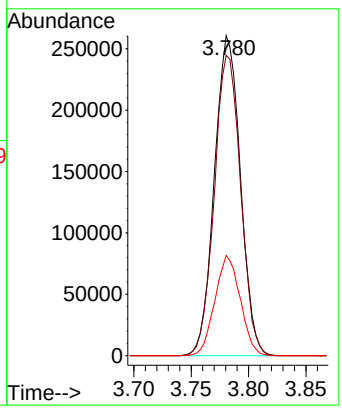




#35
Carbon Tetrachloride
Concen: 10.524 ppbv
RT: 3.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:117 Resp: 41073

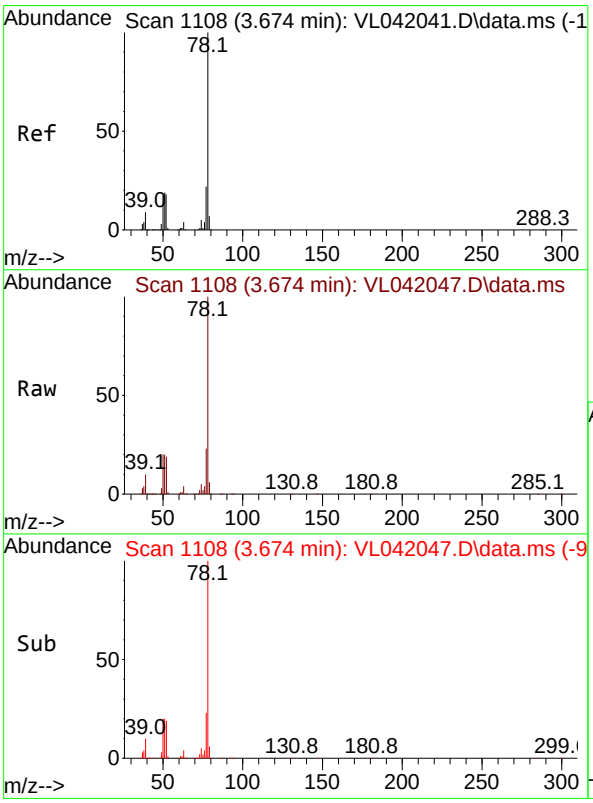
Ion	Ratio	Lower	Upper
117	100		
119	93.9	77.8	116.8
121	31.3	23.4	35.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

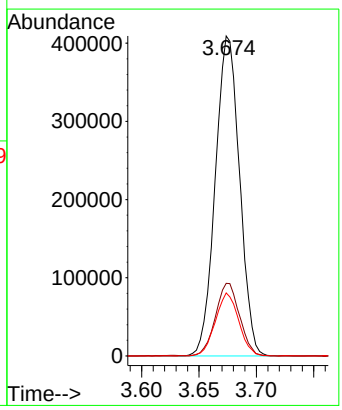
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

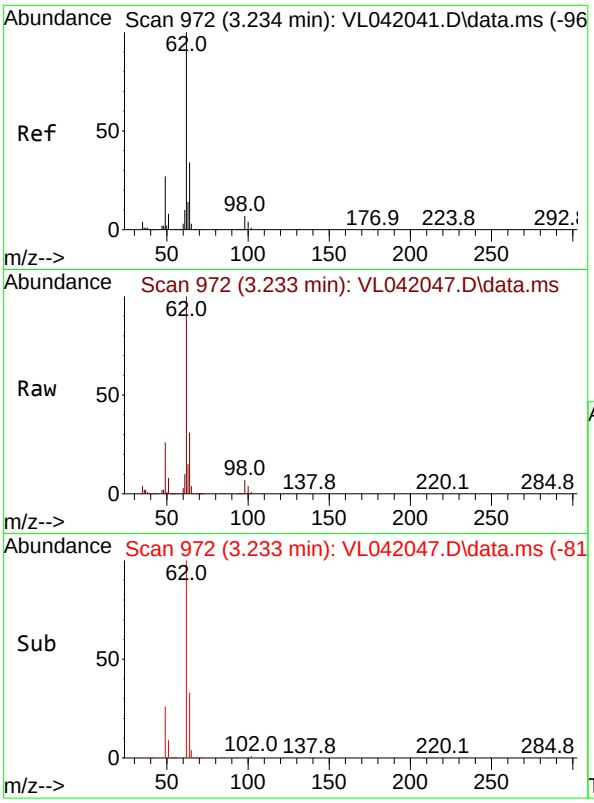


#36
Benzene
Concen: 12.367 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 78 Resp: 602107

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.7	26.5
50	19.7	13.9	20.9

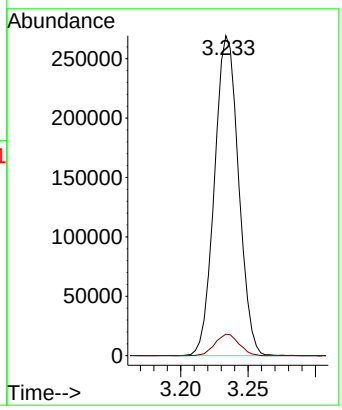




#37
1,2-Dichloroethane
Concen: 12.097 ppbv
RT: 3.233 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 62 Resp: 33527

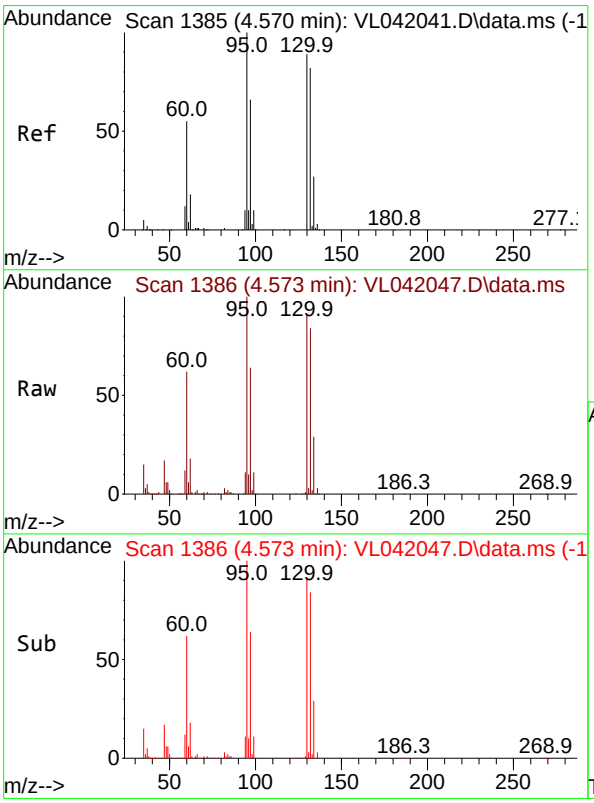
Ion	Ratio	Lower	Upper
62	100		
98	6.7	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

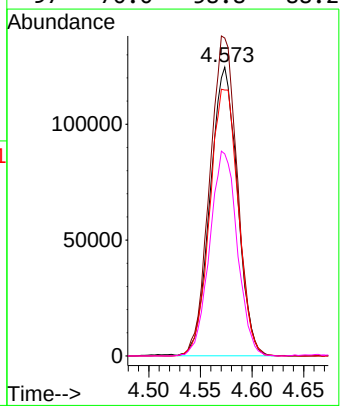
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

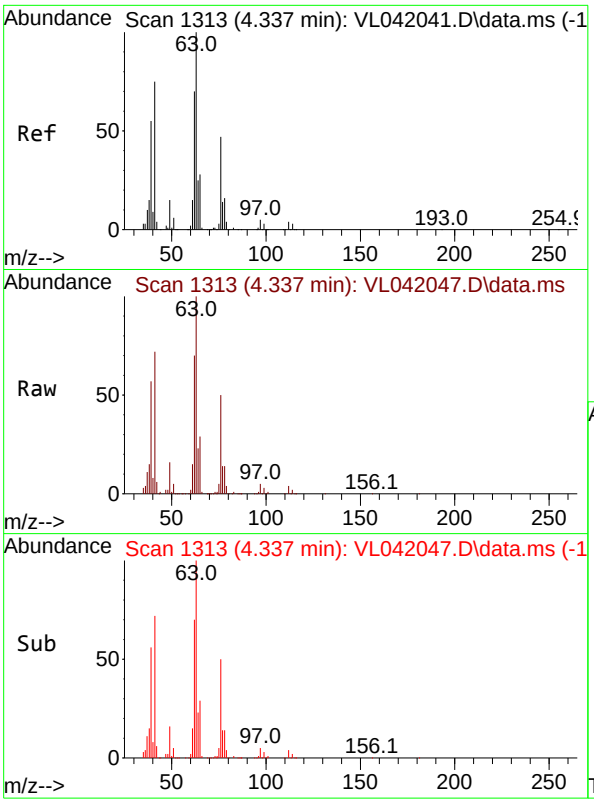


#38
Trichloroethene
Concen: 11.542 ppbv
RT: 4.573 min Scan# 1386
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:130 Resp: 228298

Ion	Ratio	Lower	Upper
130	100		
95	110.1	89.5	134.3
132	92.2	73.8	110.6
97	70.0	58.8	88.2

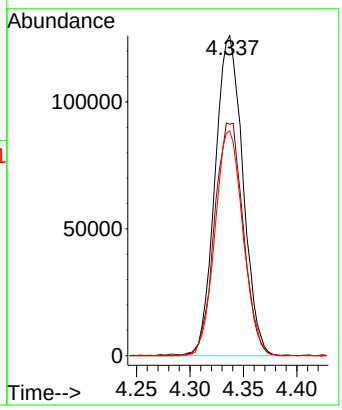




#39
1,2-Dichloropropane
Concen: 12.797 ppbv
RT: 4.337 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 63 Resp: 22841

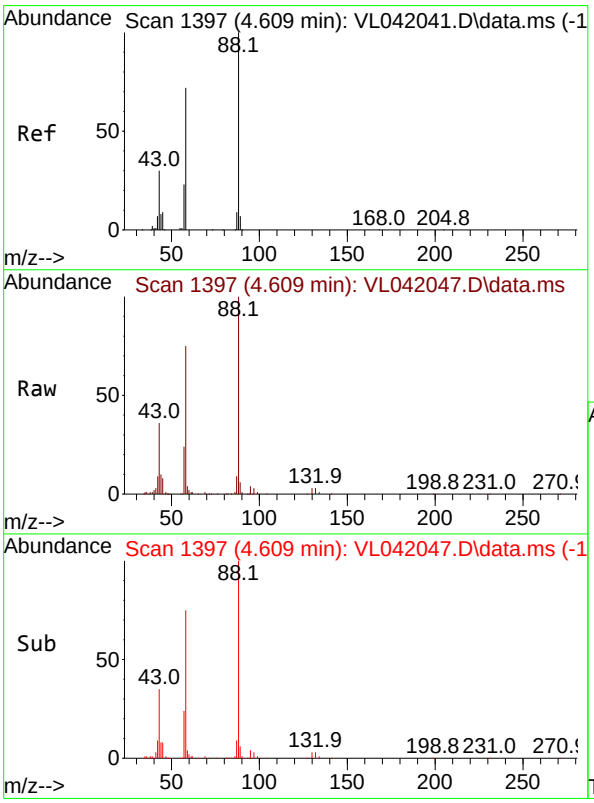
Ion	Ratio	Lower	Upper
63	100		
41	72.2	60.1	90.1
62	70.3	55.8	83.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

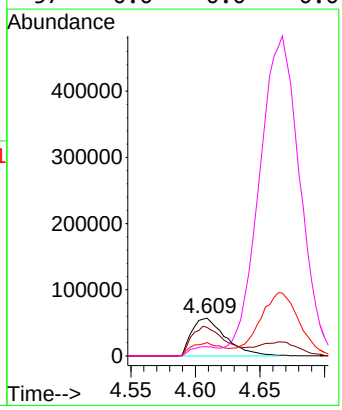
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

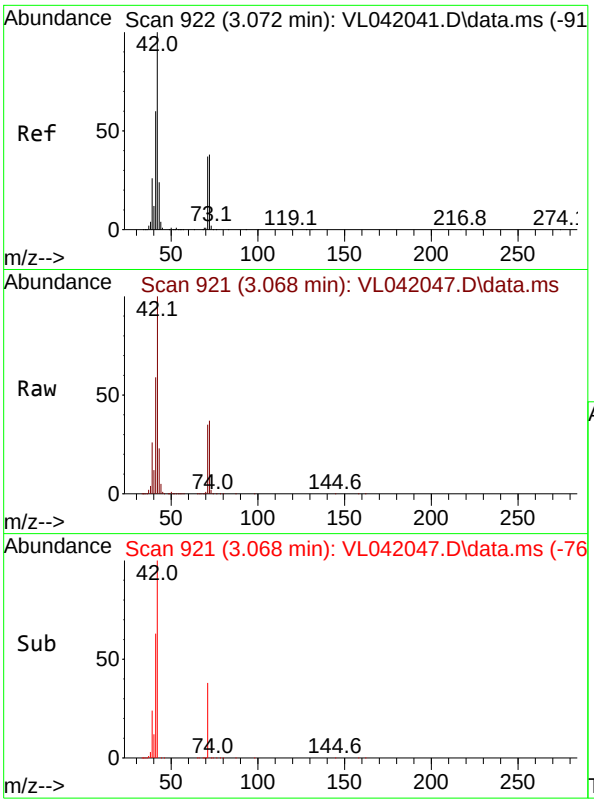


#40
1,4-Dioxane
Concen: 11.253 ppbv
RT: 4.609 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 88 Resp: 104519

Ion	Ratio	Lower	Upper
88	100		
58	81.6	62.6	94.0
43	30.4	0.0	0.0#
57	0.0	0.0	0.0

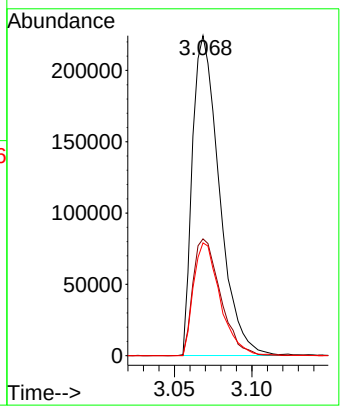




#41
Tetrahydrofuran
Concen: 13.724 ppbv
RT: 3.068 min Scan# 9
Delta R.T. -0.004 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 42 Resp: 27120

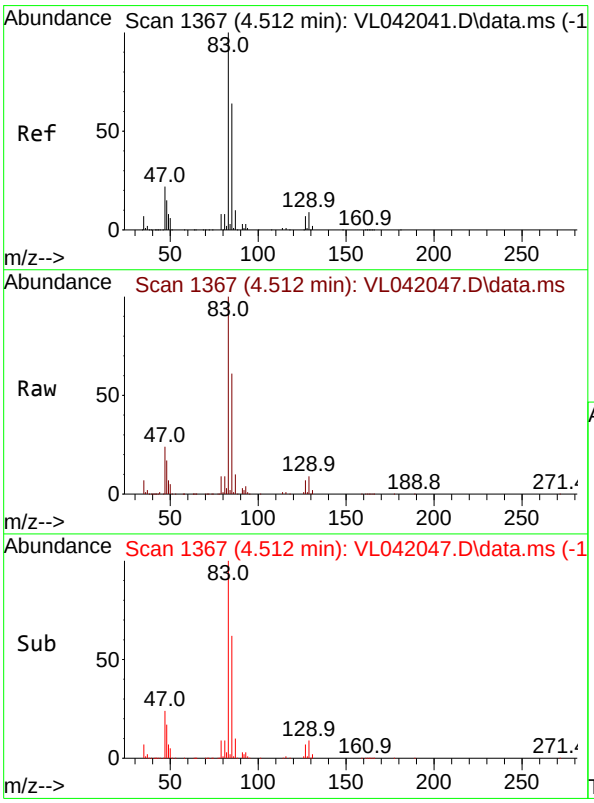
Ion	Ratio	Lower	Upper
42	100		
72	37.5	30.2	45.2
71	35.1	28.2	42.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

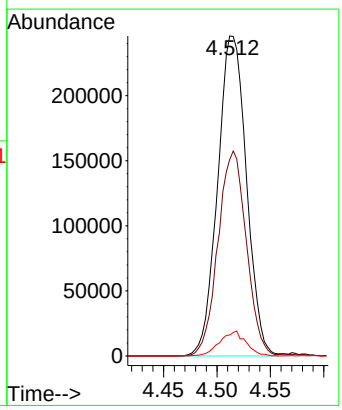
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

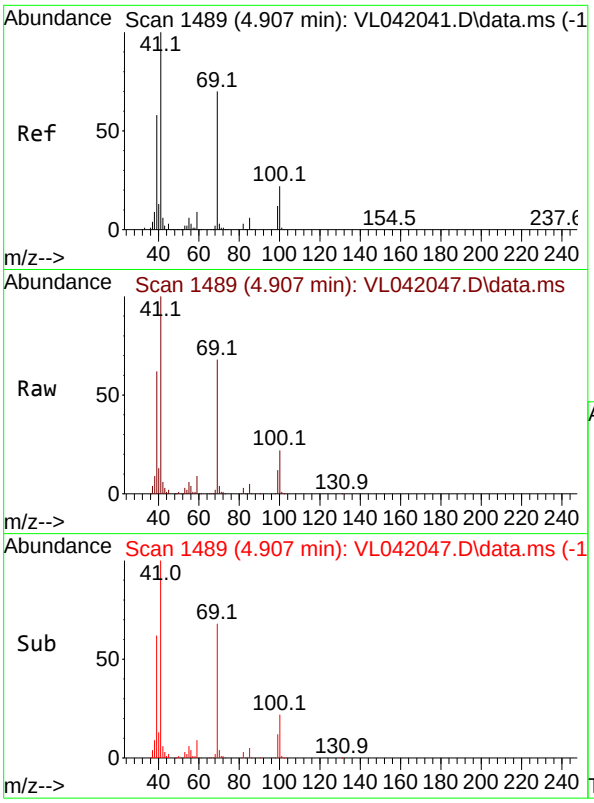


#42
Bromodichloromethane
Concen: 12.285 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 83 Resp: 461272

Ion	Ratio	Lower	Upper
83	100		
85	61.4	51.4	77.2
127	6.6	5.8	8.6

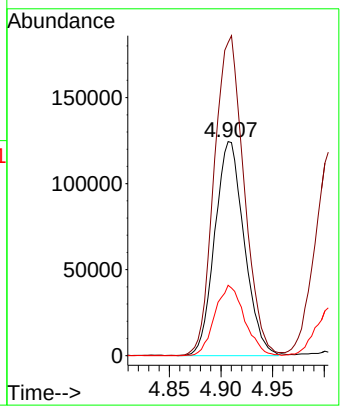




#43
Methyl Methacrylate
Concen: 11.105 ppbv
RT: 4.907 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 69 Resp: 24646

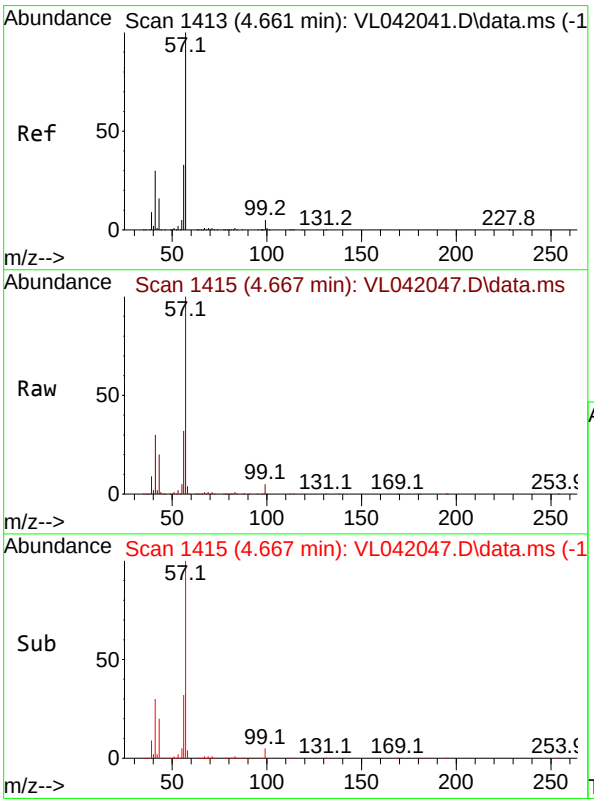
Ion	Ratio	Lower	Upper
69	100		
41	151.9	118.2	177.4
100	33.2	27.0	40.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

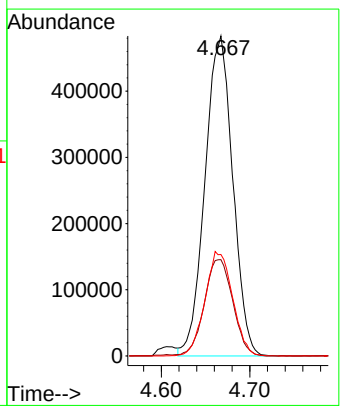
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

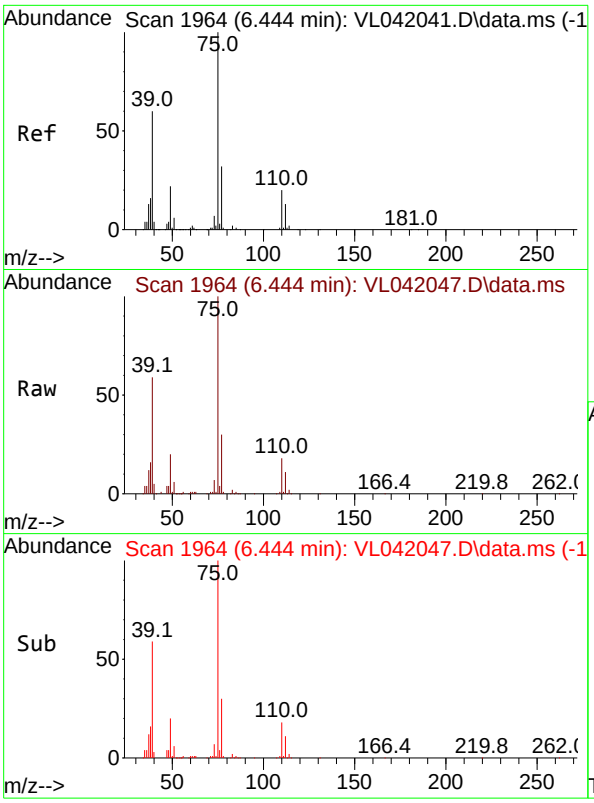


#44
2,2,4-Trimethylpentane
Concen: 12.763 ppbv
RT: 4.667 min Scan# 1415
Delta R.T. 0.006 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 57 Resp: 1054880

Ion	Ratio	Lower	Upper
57	100		
41	31.2	24.4	36.6
56	32.4	26.5	39.7

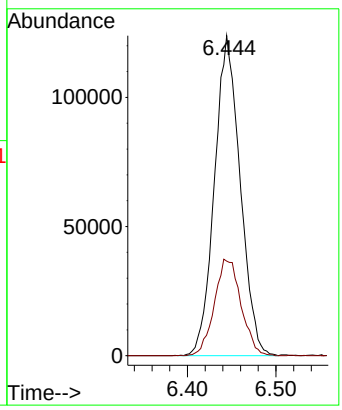




#45
t-1,3-Dichloropropene
Concen: 11.914 ppbv
RT: 6.444 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 75 Resp: 24961

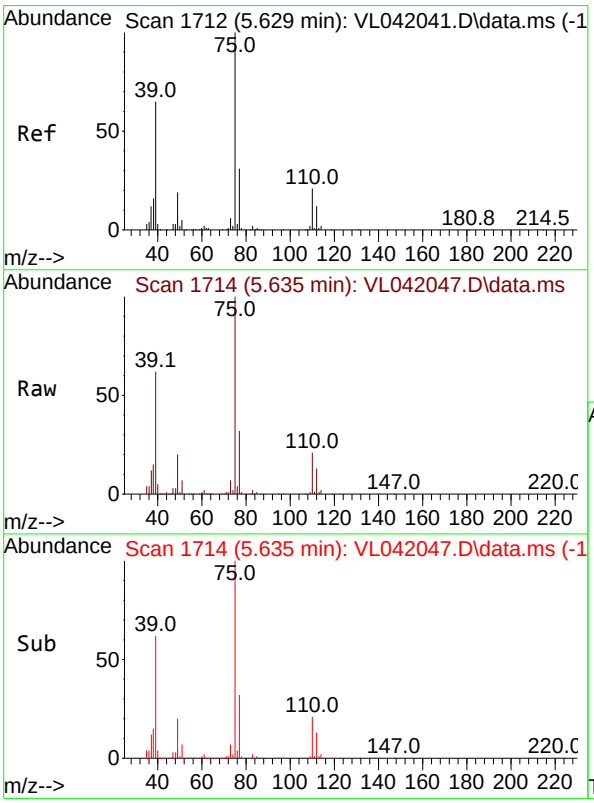
Ion	Ratio	Lower	Upper
75	100		
77	29.6	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

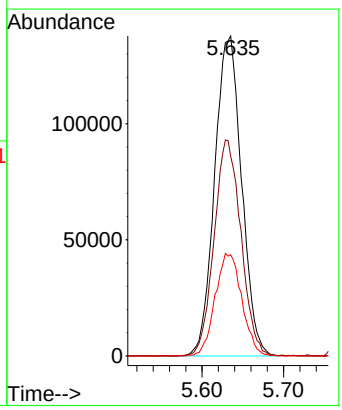
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

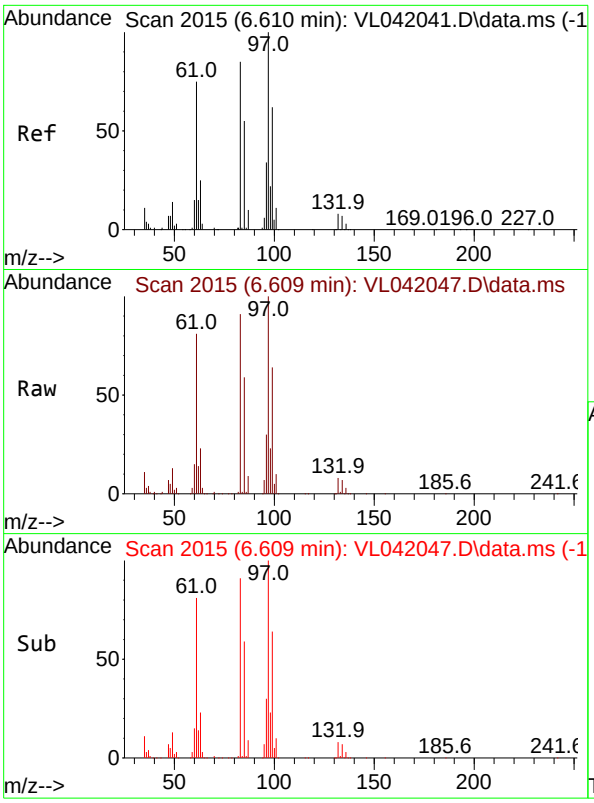


#46
cis-1,3-Dichloropropene
Concen: 11.935 ppbv
RT: 5.635 min Scan# 1714
Delta R.T. 0.006 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 75 Resp: 317266

Ion	Ratio	Lower	Upper
75	100		
39	62.4	51.9	77.9
77	31.6	24.9	37.3

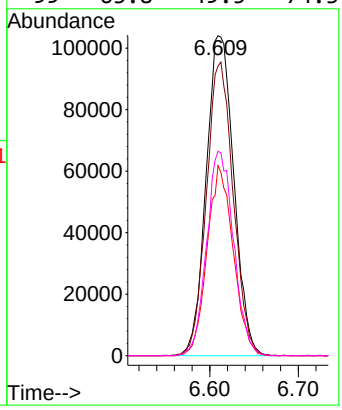




#47
1,1,2-Trichloroethane
Concen: 12.032 ppbv
RT: 6.609 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 97 Resp: 22602

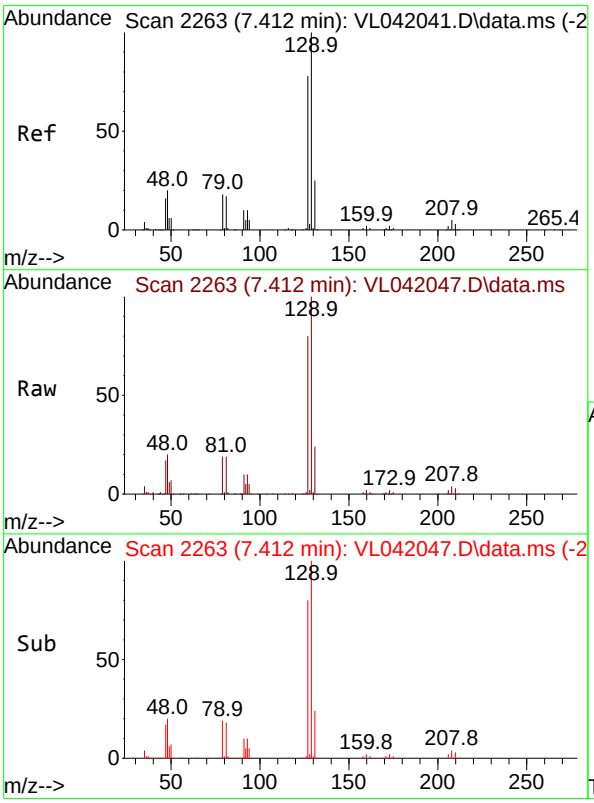
Ion	Ratio	Lower	Upper
97	100		
83	90.5	68.1	102.1
85	59.4	44.0	66.0
99	63.8	49.5	74.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

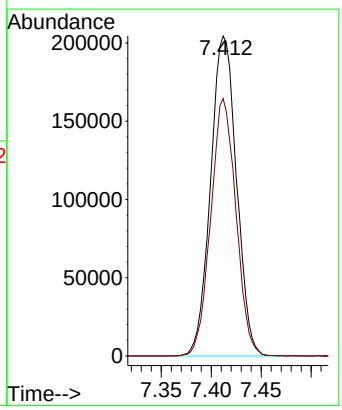
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

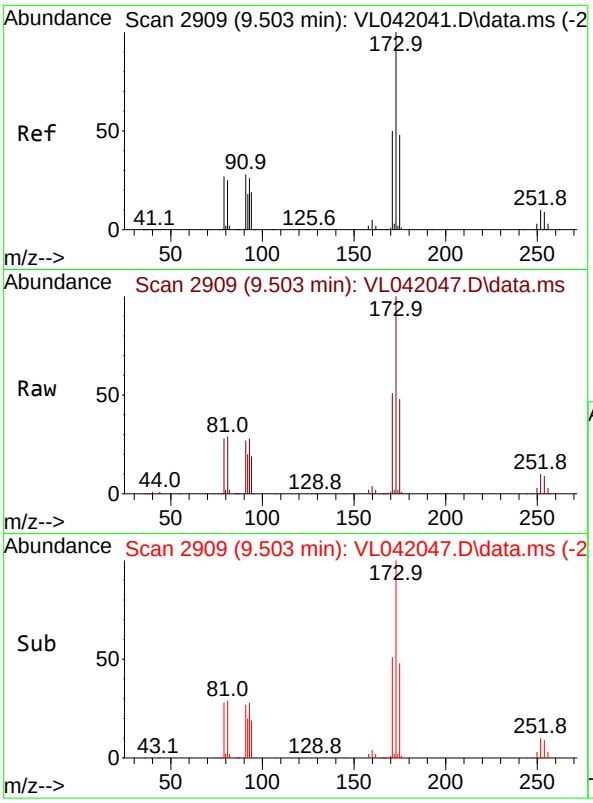


#48
Dibromochloromethane
Concen: 11.750 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:129 Resp: 369666

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.6	115.8

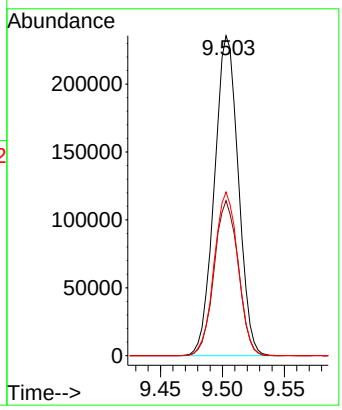




#49
Bromoform
Concen: 12.297 ppbv
RT: 9.503 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:173 Resp: 31732

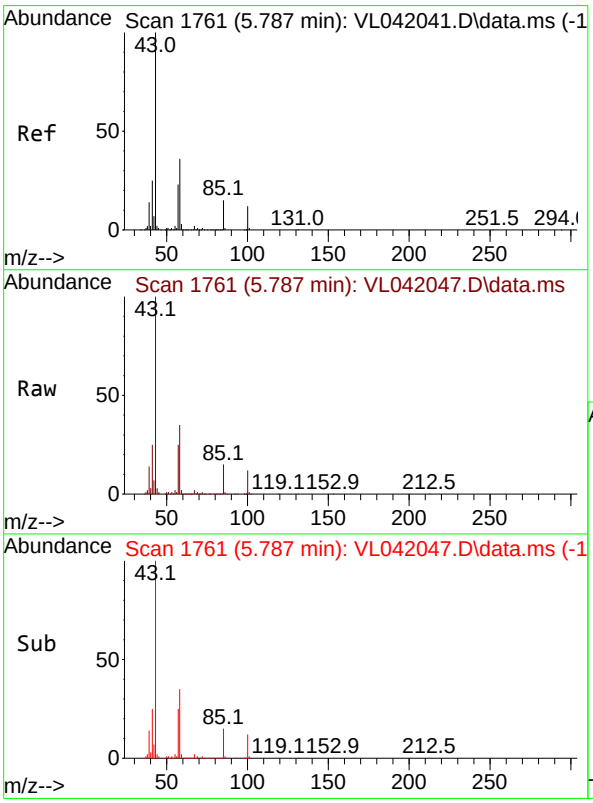
Ion	Ratio	Lower	Upper
173	100		
175	48.9	38.3	57.5
171	51.2	40.2	60.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

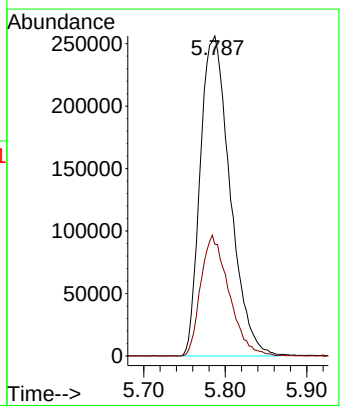
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

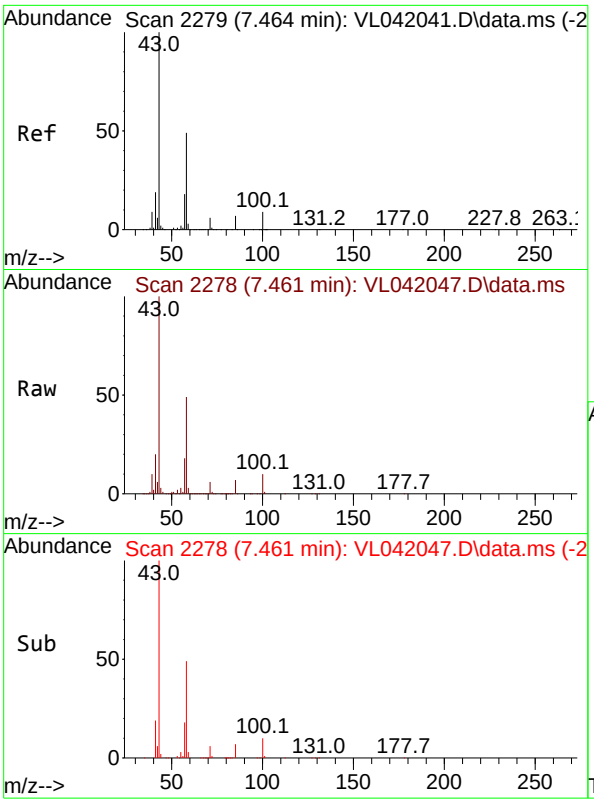


#50
4-Methyl-2-Pentanone
Concen: 12.237 ppbv
RT: 5.787 min Scan# 1761
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 650307

Ion	Ratio	Lower	Upper
43	100		
58	35.9	29.3	43.9

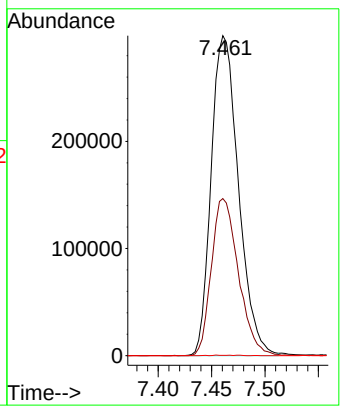




#51
2-Hexanone
Concen: 12.198 ppbv
RT: 7.461 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 53016

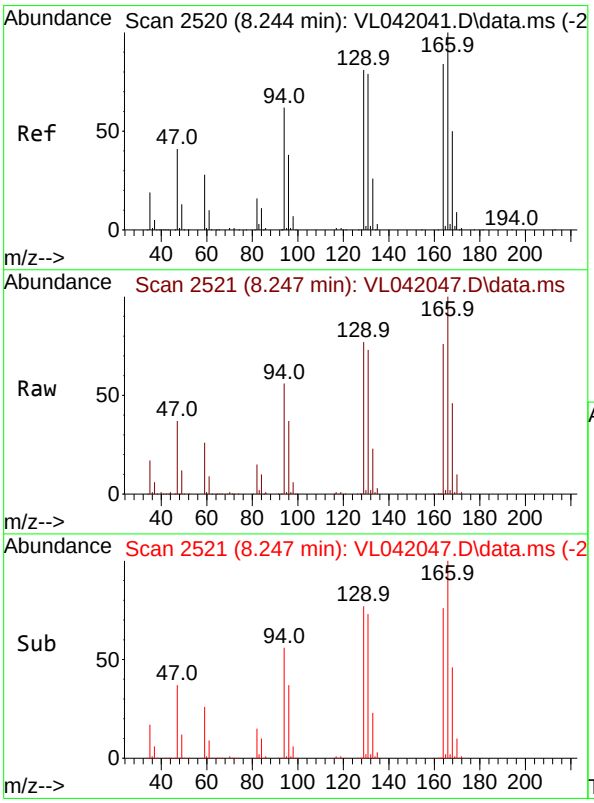
Ion	Ratio	Lower	Upper
43	100		
58	48.8	39.0	58.6
98	0.2	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

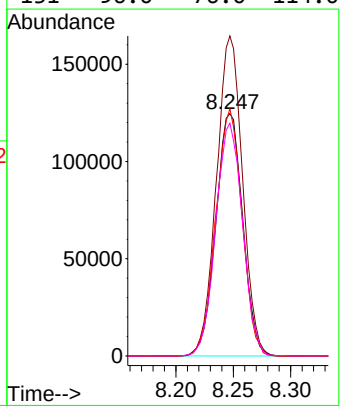
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

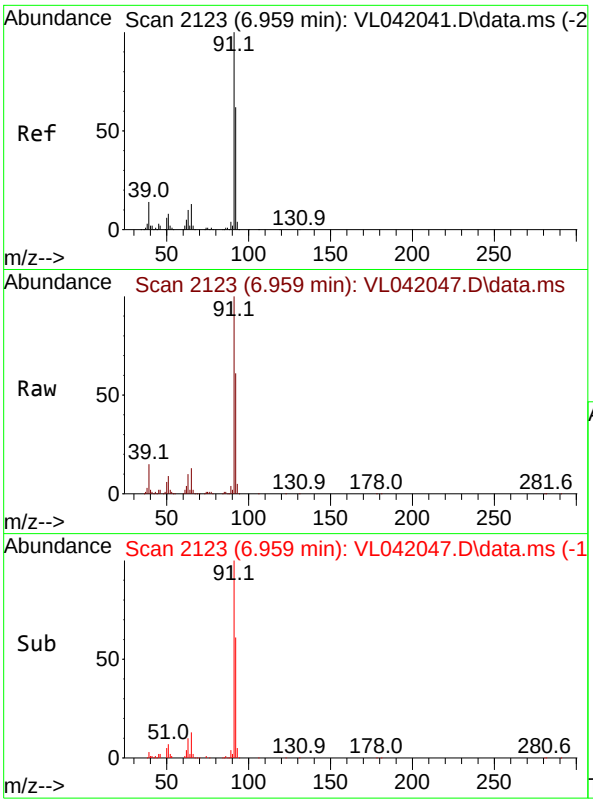


#52
Tetrachloroethene
Concen: 11.968 ppbv
RT: 8.247 min Scan# 2521
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:164 Resp: 203233

Ion	Ratio	Lower	Upper
164	100		
166	132.0	95.7	143.5
129	102.0	77.1	115.7
131	96.0	76.0	114.0

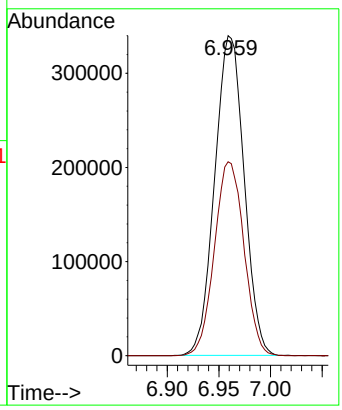




#53
Toluene
Concen: 11.615 ppbv
RT: 6.959 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 67382

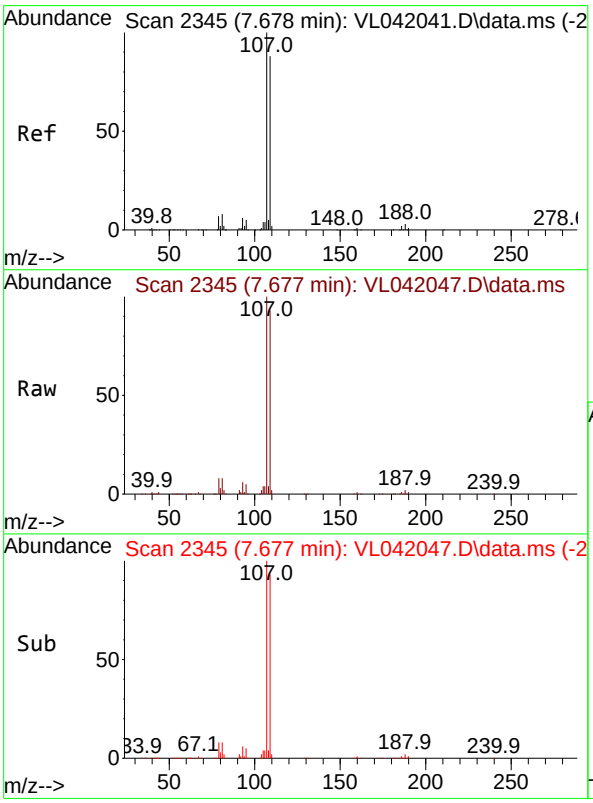
Ion	Ratio	Lower	Upper
91	100		
92	60.9	49.0	73.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

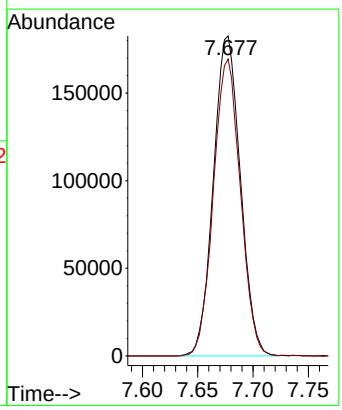
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

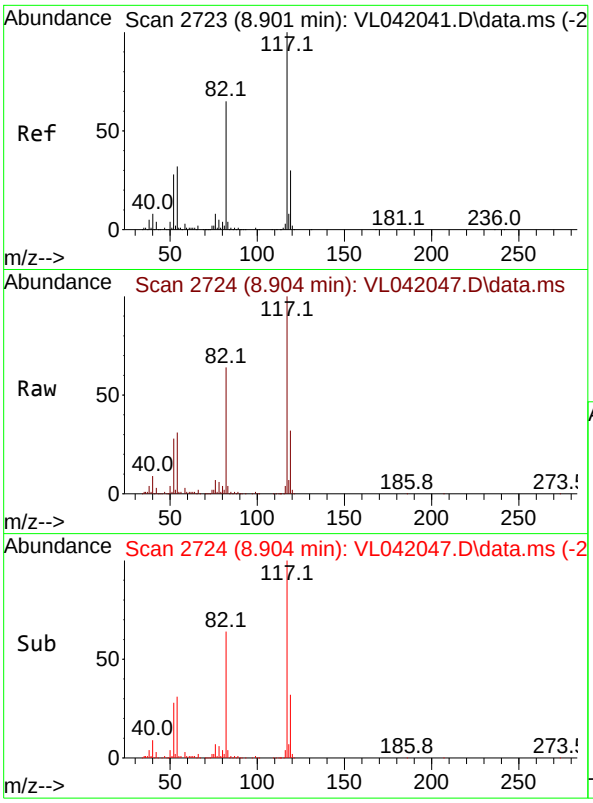


#54
1,2-Dibromoethane
Concen: 11.985 ppbv
RT: 7.677 min Scan# 2345
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:107 Resp: 309982

Ion	Ratio	Lower	Upper
107	100		
109	92.7	70.2	105.4

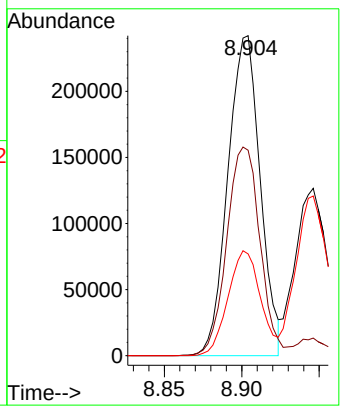




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:117 Resp: 35163

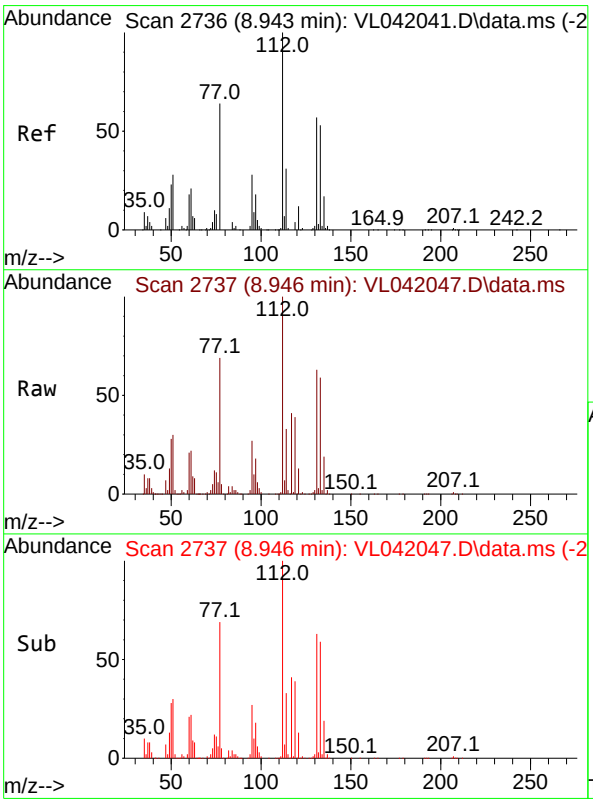
Ion	Ratio	Lower	Upper
117	100		
82	72.2	55.0	82.6
119	33.3	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

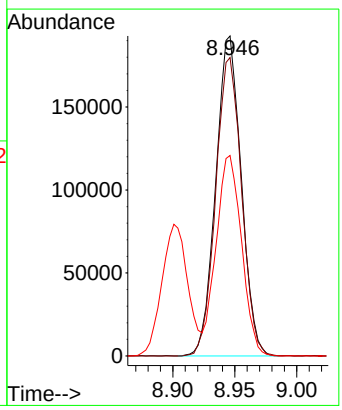
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

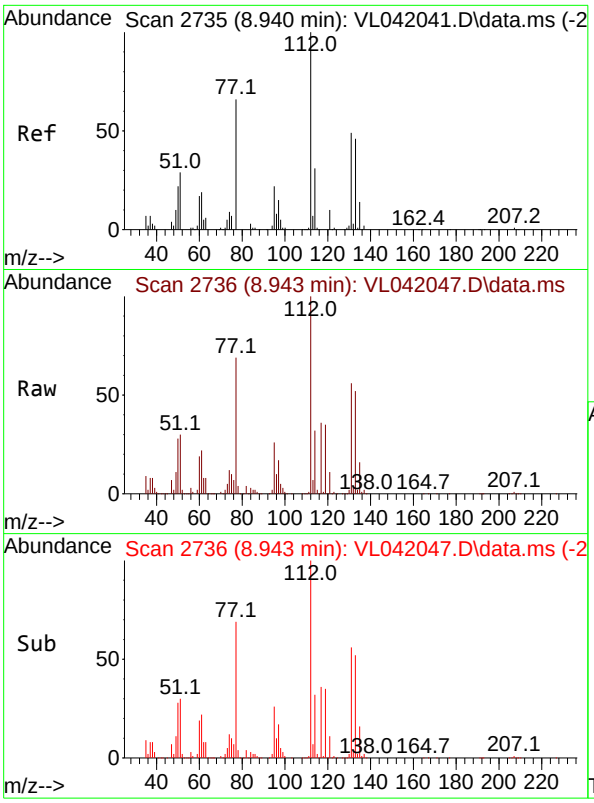


#56
1,1,1,2-Tetrachloroethane
Concen: 10.979 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:131 Resp: 276326

Ion	Ratio	Lower	Upper
131	100		
133	94.6	75.8	113.8
119	63.6	52.1	78.1

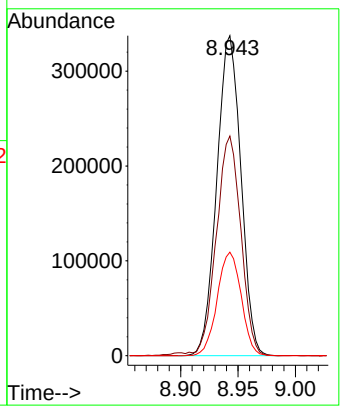




#57
Chlorobenzene
Concen: 11.957 ppbv
RT: 8.943 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:112 Resp: 49460

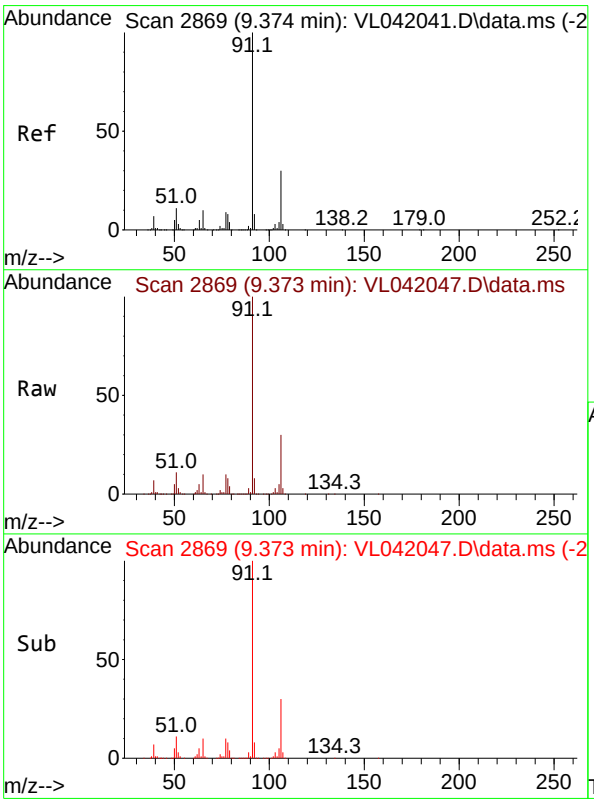
Ion	Ratio	Lower	Upper
112	100		
77	68.6	53.4	80.2
114	32.4	28.3	34.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

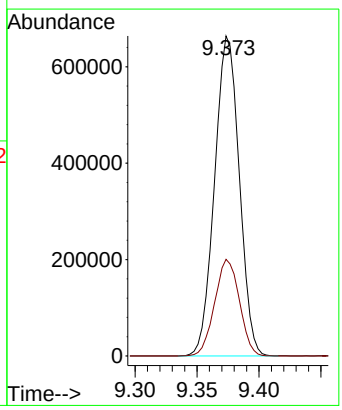
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

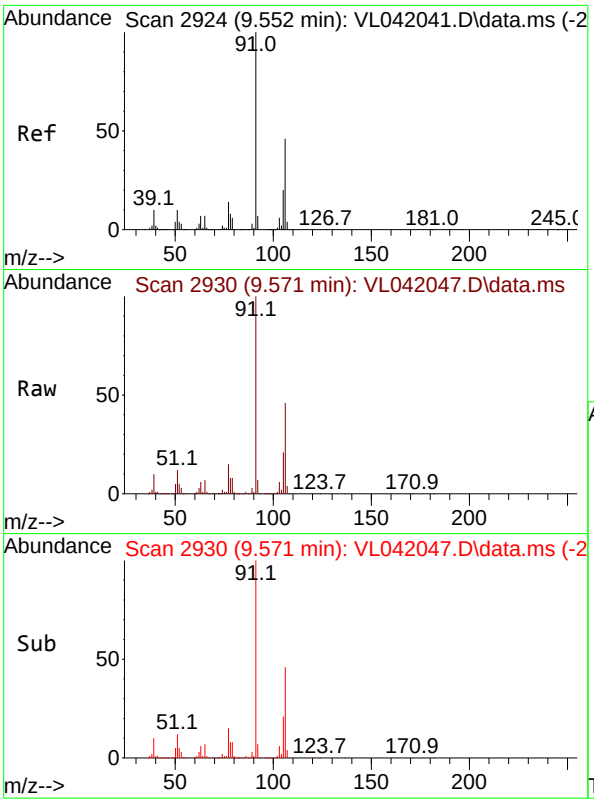


#58
Ethyl Benzene
Concen: 11.984 ppbv
RT: 9.373 min Scan# 2869
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 922265

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.2	36.2

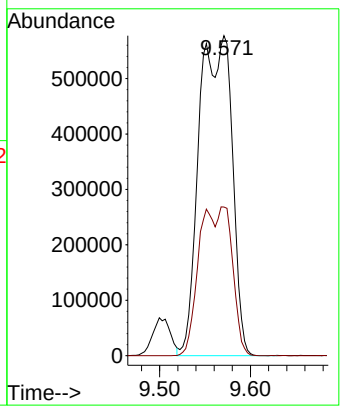




#59
m/p-Xylene
Concen: 24.020 ppbv m
RT: 9.571 min Scan# 2
Delta R.T. 0.019 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 145603

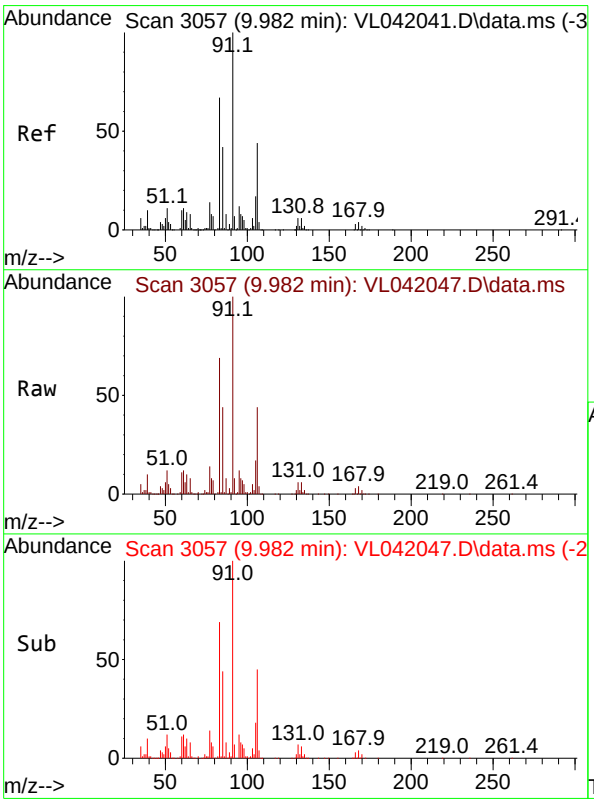
Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

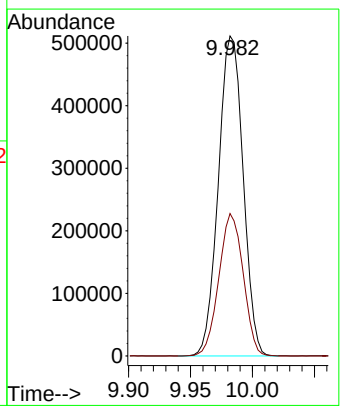
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

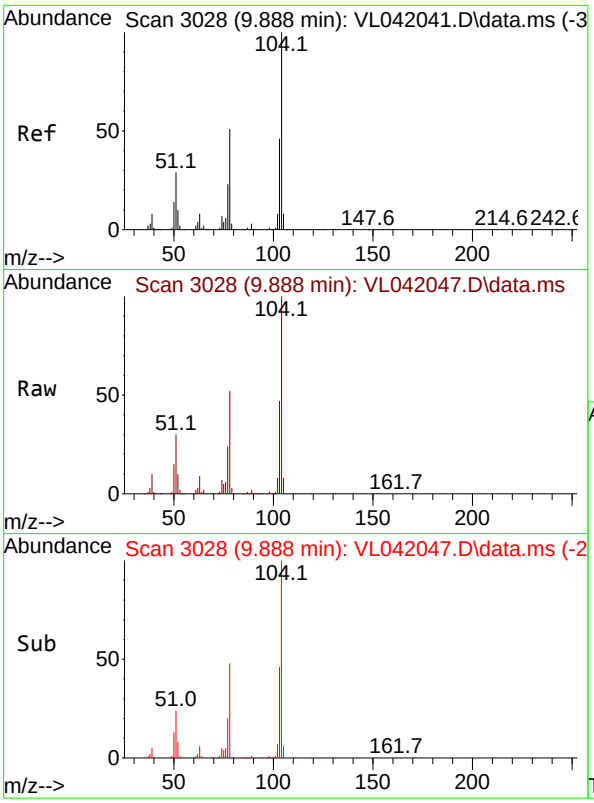


#60
o-Xylene
Concen: 11.626 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 712735

Ion	Ratio	Lower	Upper
91	100		
106	43.8	22.3	66.8

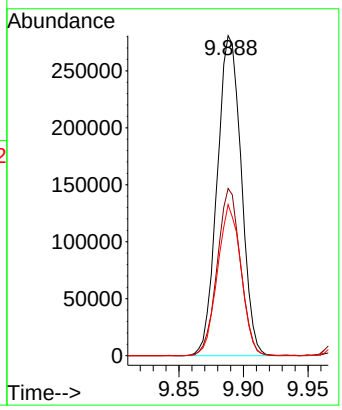




#61
Styrene
Concen: 12.446 ppbv
RT: 9.888 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:104 Resp: 36385

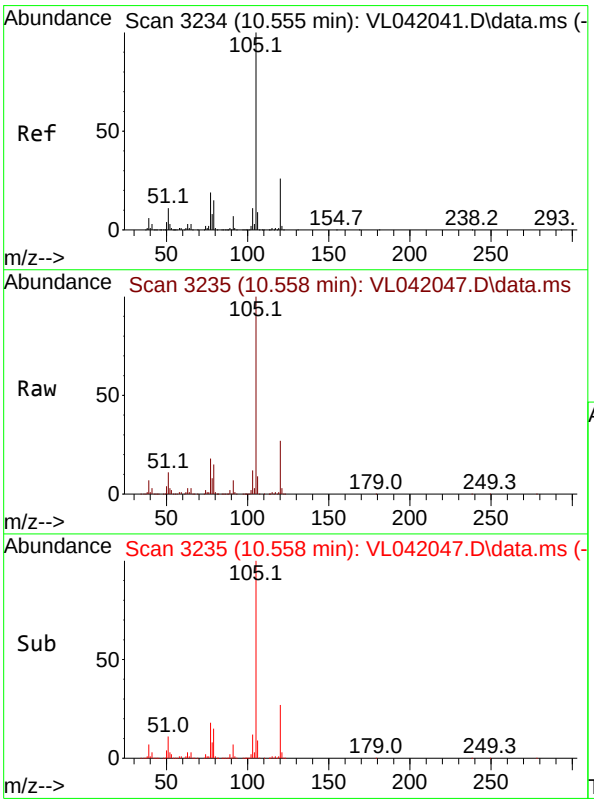
Ion	Ratio	Lower	Upper
104	100		
78	50.5	41.0	61.4
103	46.2	37.0	55.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

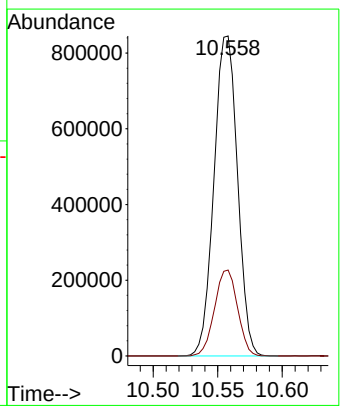
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

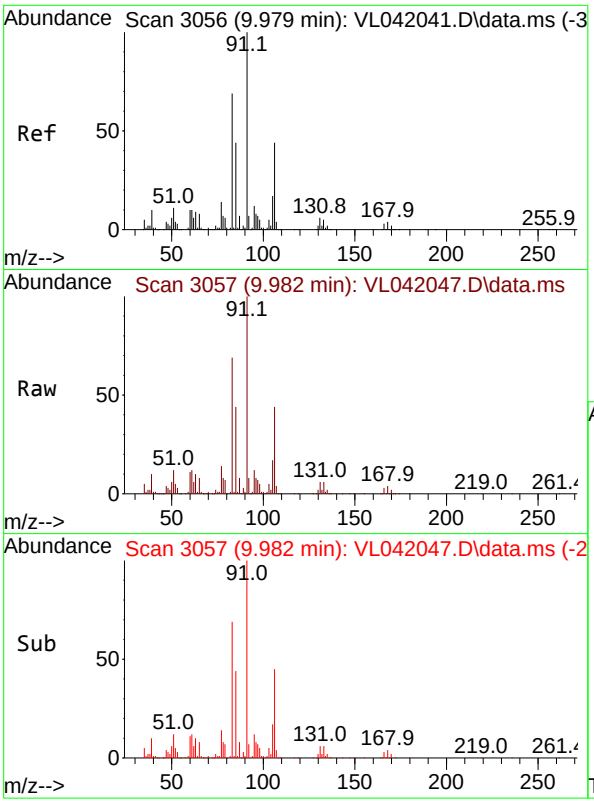


#62
Isopropylbenzene
Concen: 11.612 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 1068777

Ion	Ratio	Lower	Upper
105	100		
120	26.2	20.7	31.1

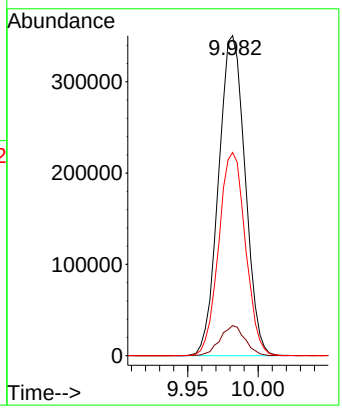




#63
1,1,2,2-Tetrachloroethane
Concen: 11.626 ppbv
RT: 9.982 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 83 Resp: 45983

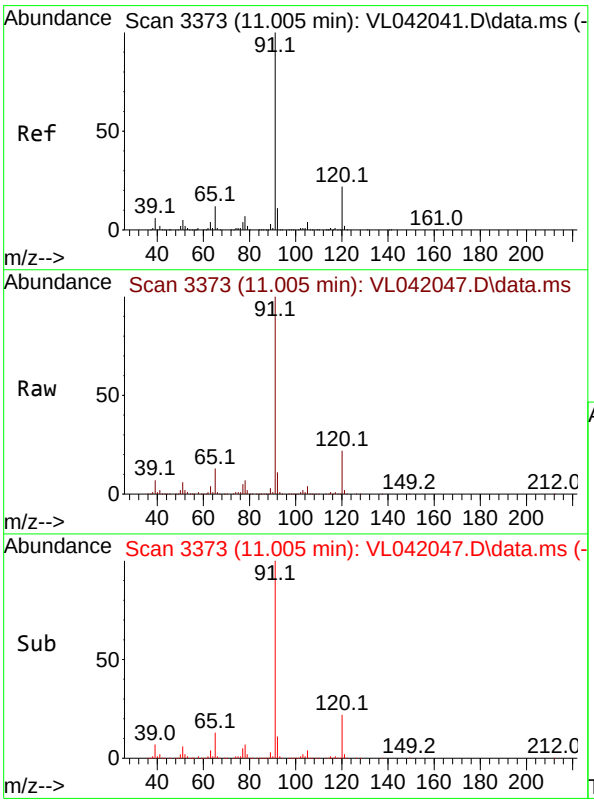
Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.7
85	63.9	32.1	96.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

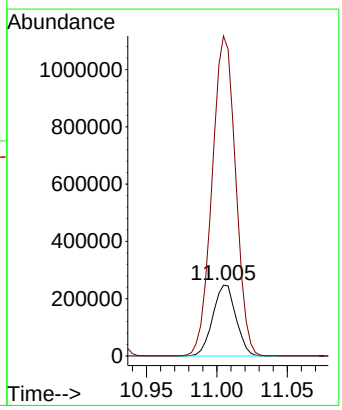
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

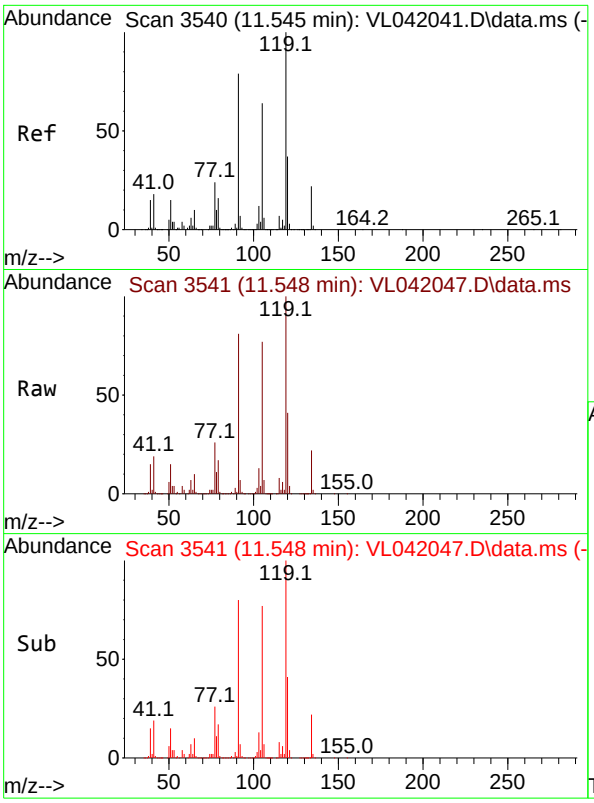


#64
n-propylbenzene
Concen: 12.486 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:120 Resp: 282364

Ion	Ratio	Lower	Upper
120	100		
91	460.6	370.6	556.0

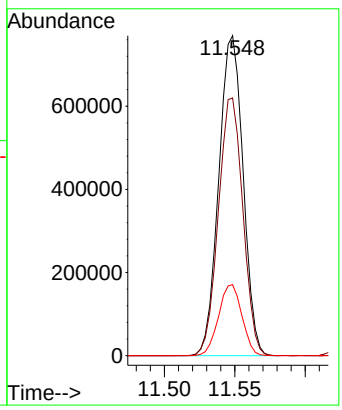




#65
tert-Butylbenzene
Concen: 11.526 ppbv
RT: 11.548 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:119 Resp: 92481

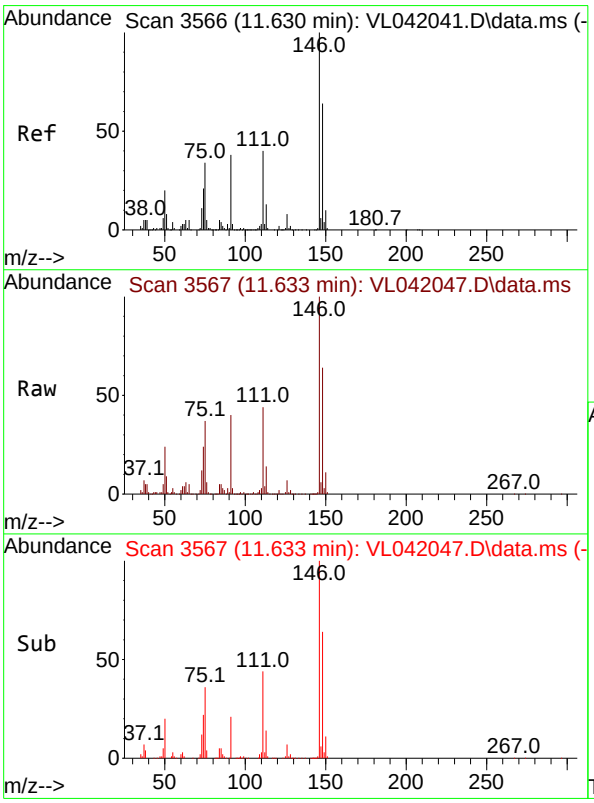
Ion	Ratio	Lower	Upper
119	100		
91	81.2	64.2	96.2
134	21.4	17.4	26.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

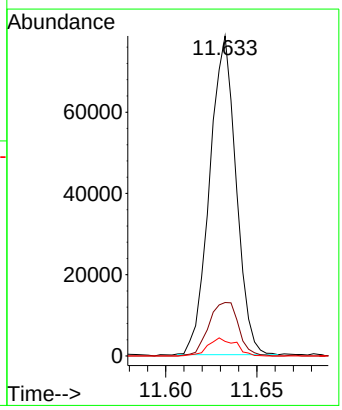
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

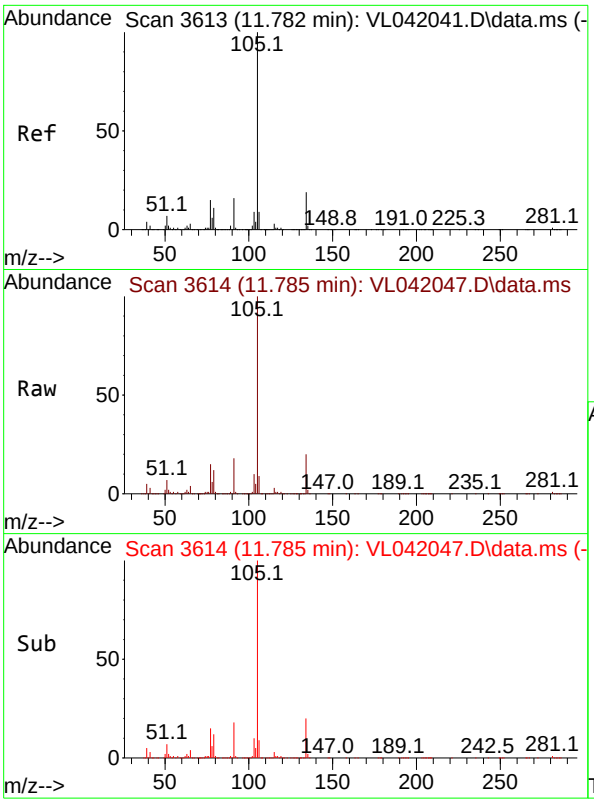


#66
Benzyl Chloride
Concen: 9.819 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 78975

Ion	Ratio	Lower	Upper
91	100		
126	19.0	14.5	21.7
128	6.0	5.4	8.2

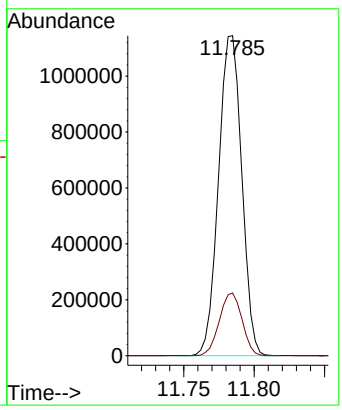




#67
sec-Butylbenzene
Concen: 11.674 ppbv
RT: 11.785 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 131573

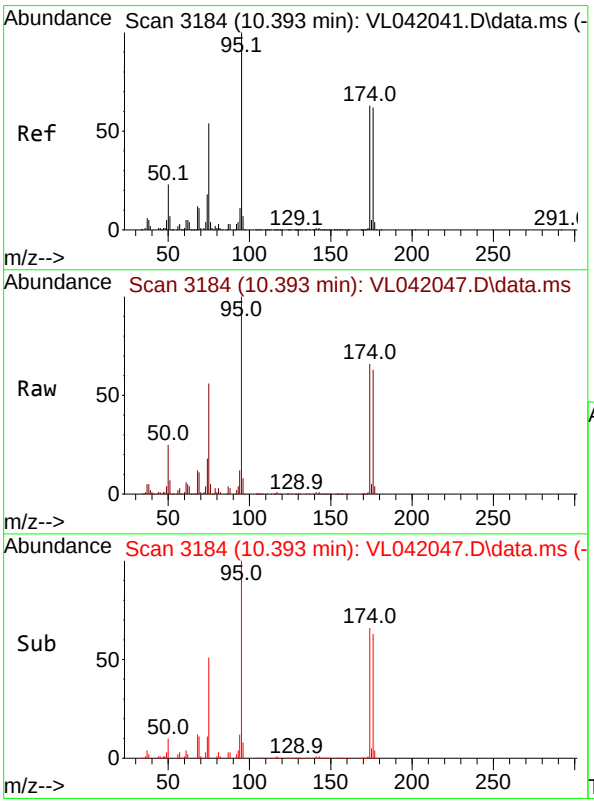
Ion	Ratio	Lower	Upper
105	100		
134	19.2	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

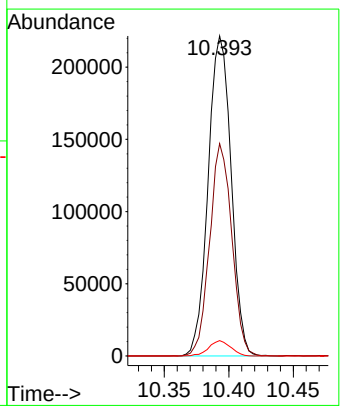
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

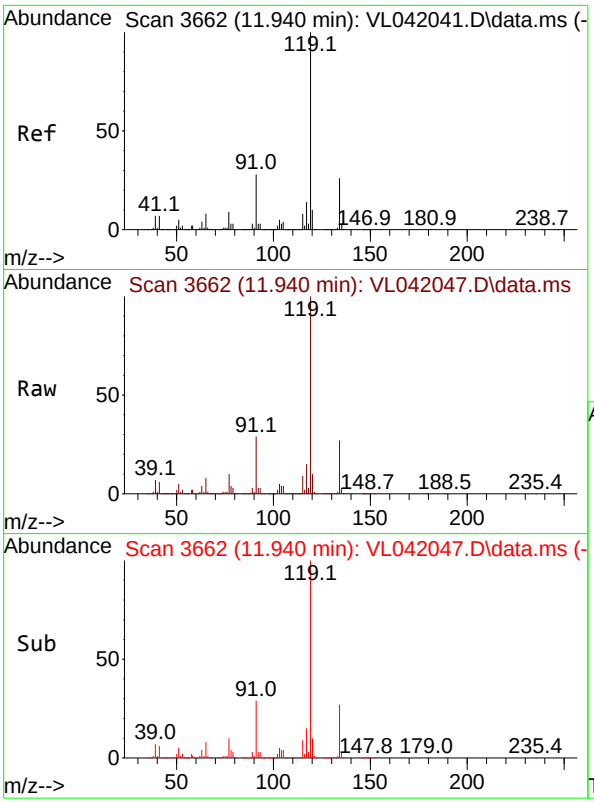


#68
1-Bromo-4-Fluorobenzene
Concen: 9.441 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 95 Resp: 273846

Ion	Ratio	Lower	Upper
95	100		
174	64.0	51.8	77.6
175	4.6	3.9	5.9

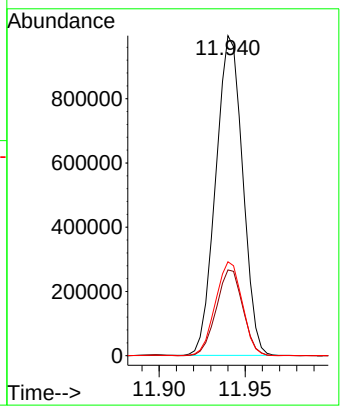




#69
p-Isopropyltoluene
Concen: 11.752 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:119 Resp: 108425

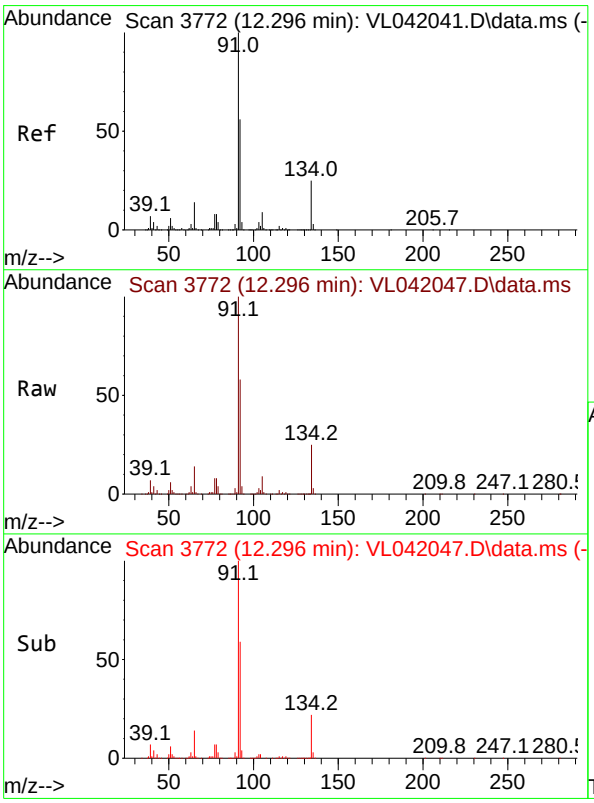
Ion	Ratio	Lower	Upper
119	100		
134	26.6	20.9	31.3
91	29.4	23.1	34.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

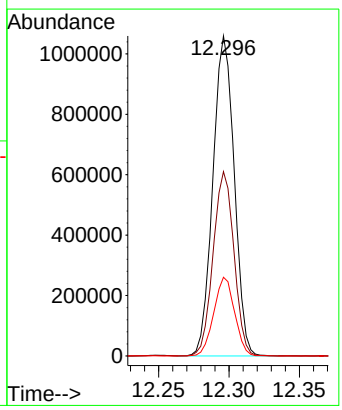
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

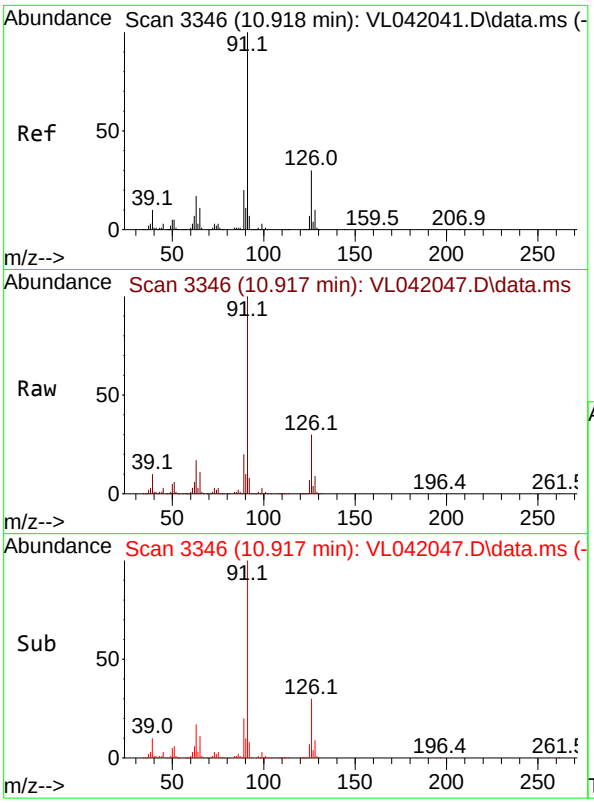


#70
n-Butylbenzene
Concen: 12.306 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 1118373

Ion	Ratio	Lower	Upper
91	100		
92	56.6	44.7	67.1
134	24.0	18.9	28.3

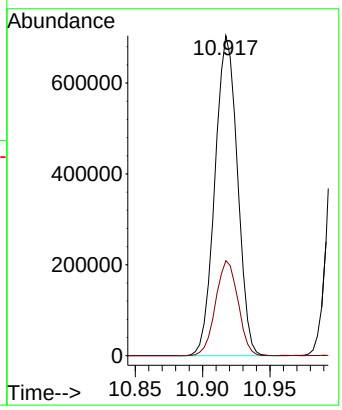




#71
2-Chlorotoluene
Concen: 11.804 ppbv
RT: 10.917 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 81820

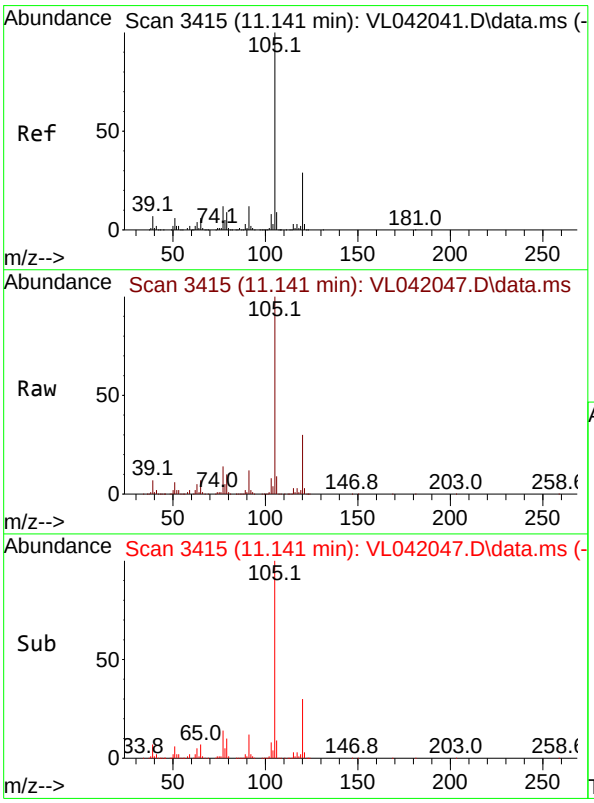
Ion	Ratio	Lower	Upper
91	100		
126	29.5	11.9	47.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

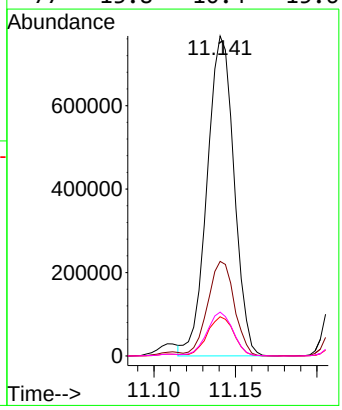
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

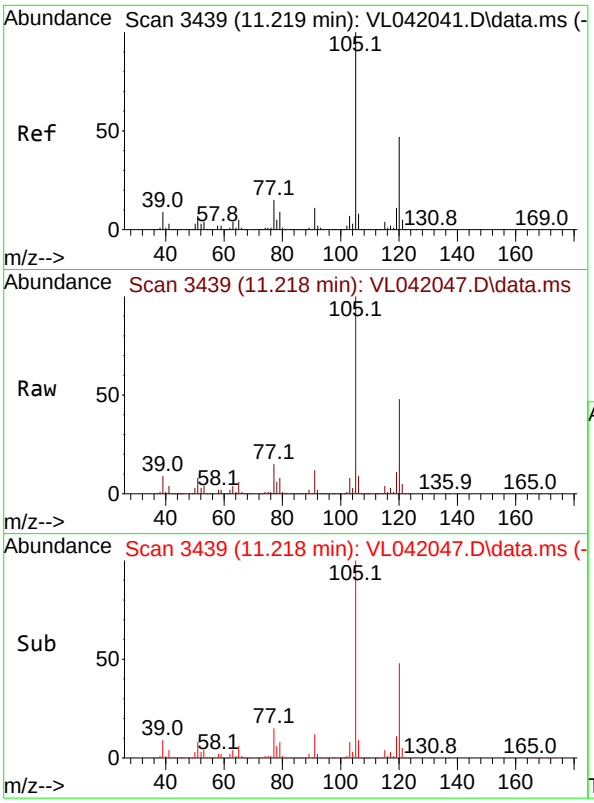


#72
4-Ethyltoluene
Concen: 12.264 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 880883

Ion	Ratio	Lower	Upper
105	100		
120	30.4	24.1	36.1
91	12.7	10.2	15.4
77	13.8	10.4	15.6

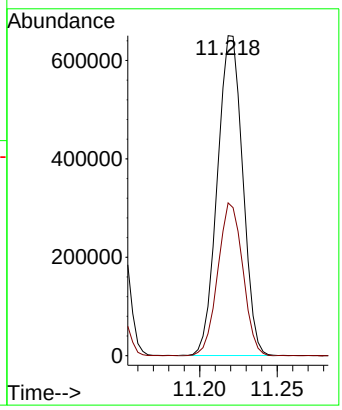




#73
1,3,5-Trimethylbenzene
Concen: 11.921 ppbv
RT: 11.218 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 73861

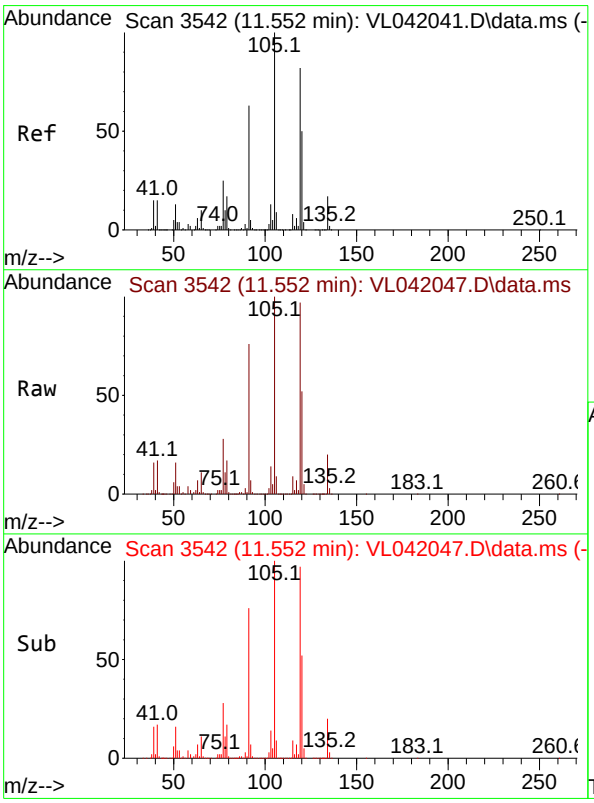
Ion	Ratio	Lower	Upper
105	100		
120	47.8	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

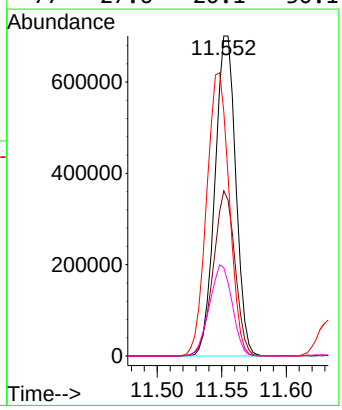
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

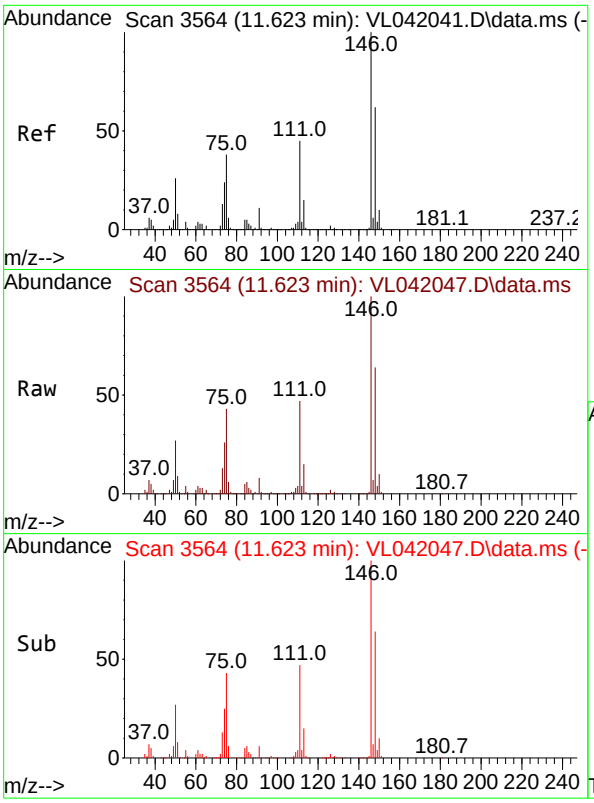


#74
1,2,4-Trimethylbenzene
Concen: 11.801 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 784701

Ion	Ratio	Lower	Upper
105	100		
120	51.6	40.2	60.2
91	76.3	51.4	77.2
77	27.6	20.1	30.1

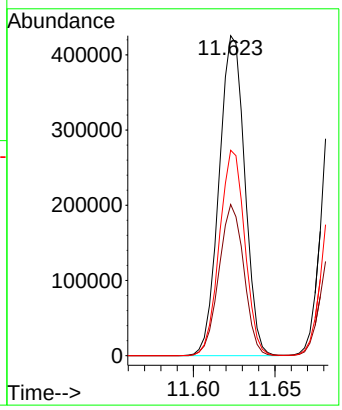




#75
1,3-Dichlorobenzene
Concen: 13.003 ppbv
RT: 11.623 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:146 Resp: 46543

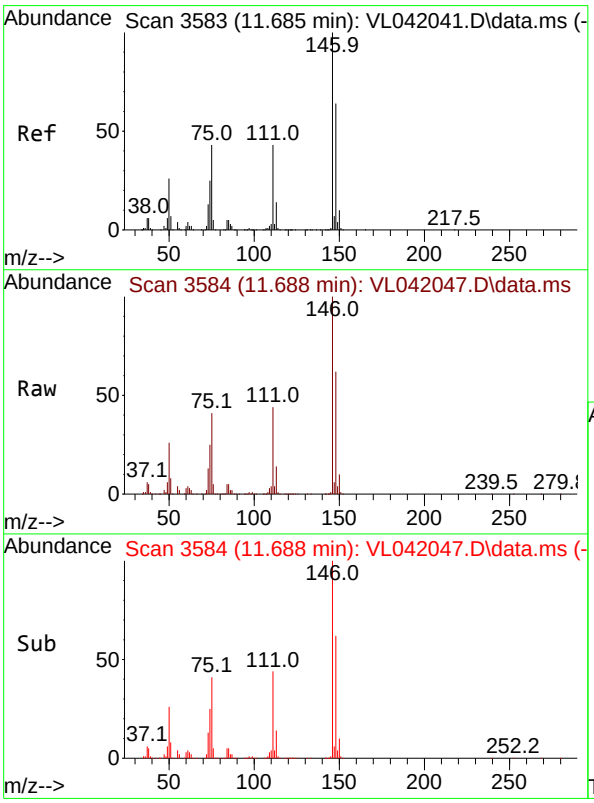
Ion	Ratio	Lower	Upper
146	100		
111	46.0	22.4	67.2
148	63.5	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

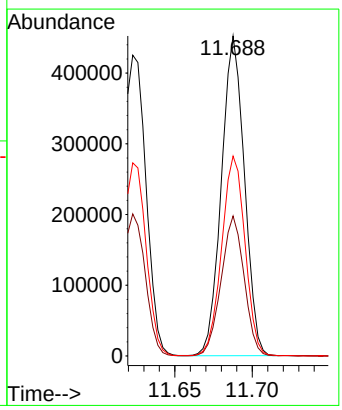
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

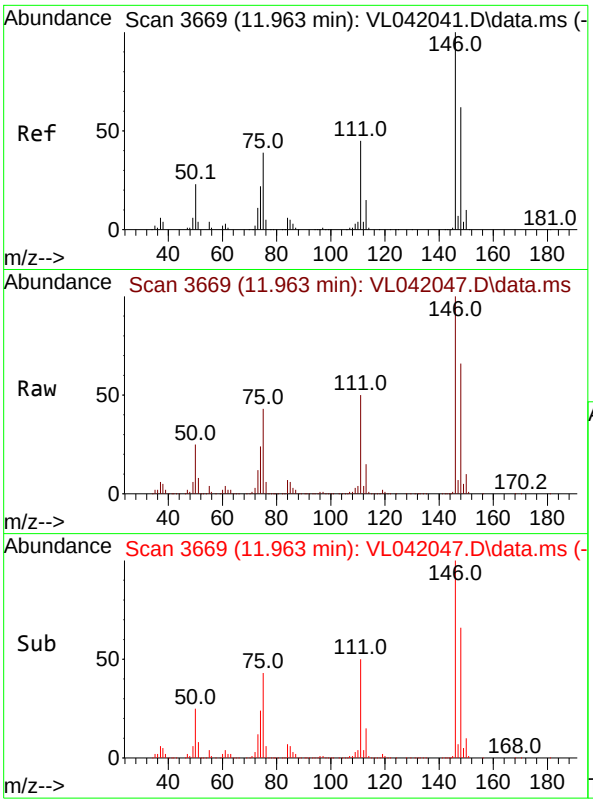


#76
1,4-Dichlorobenzene
Concen: 13.386 ppbv
RT: 11.688 min Scan# 3584
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:146 Resp: 467249

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.5	64.5
148	63.7	31.6	95.0

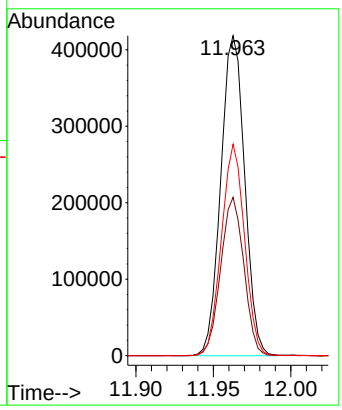




#77
1,2-Dichlorobenzene
Concen: 13.129 ppbv
RT: 11.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:146 Resp: 44922

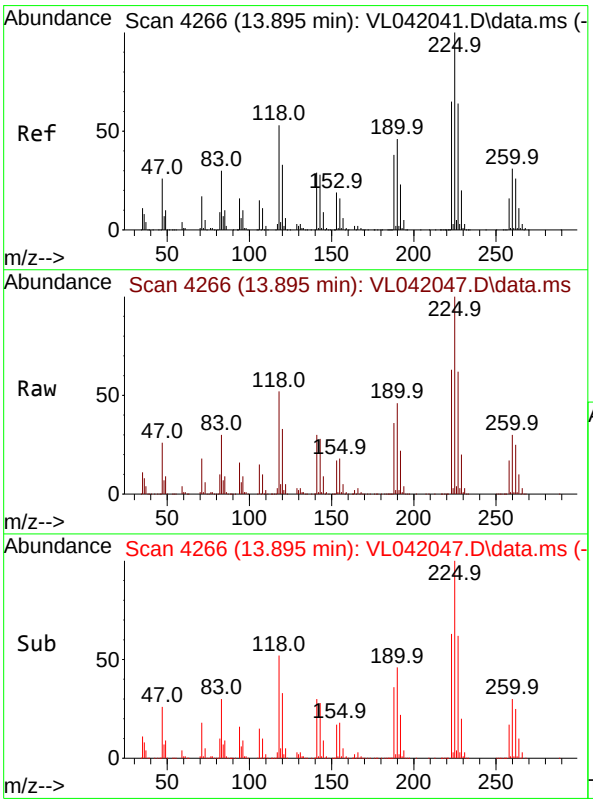
Ion	Ratio	Lower	Upper
146	100		
111	48.1	23.2	69.6
148	64.0	31.4	94.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

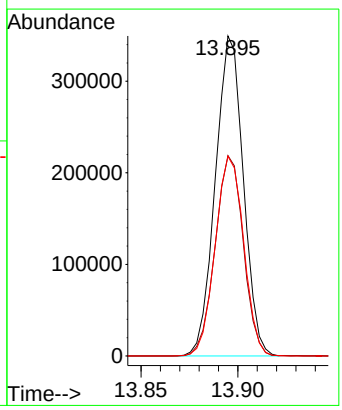
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

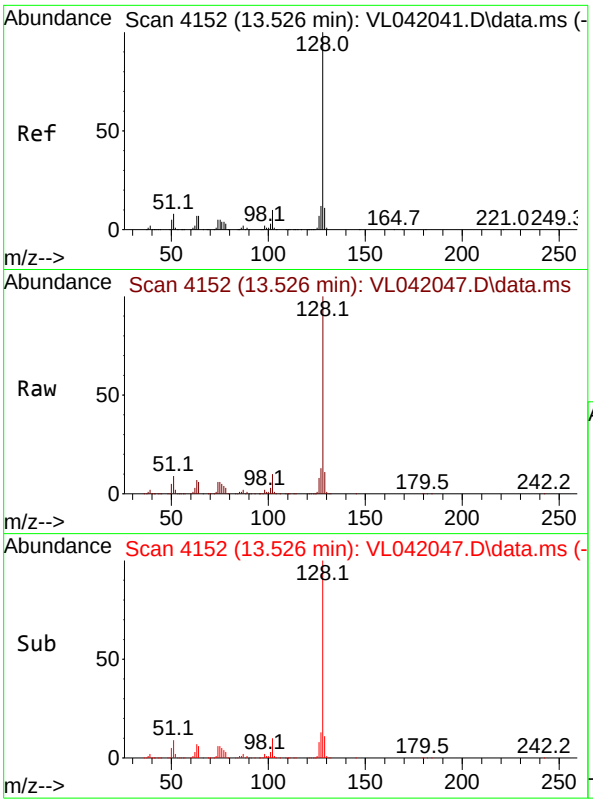


#78
Hexachloro-1,3-Butadiene
Concen: 12.403 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:225 Resp: 351085

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.2
227	63.4	50.8	76.2

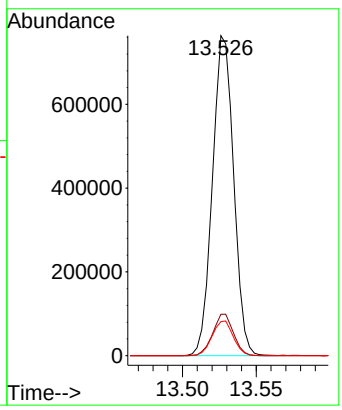




#79
Naphthalene
Concen: 11.696 ppbv
RT: 13.526 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:128 Resp: 76499

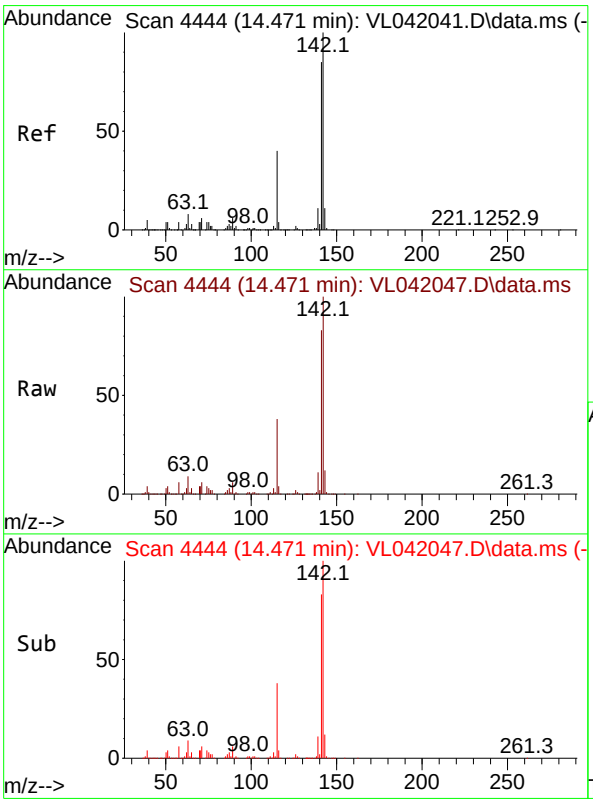
Ion	Ratio	Lower	Upper
128	100		
127	12.9	9.8	14.6
129	10.7	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

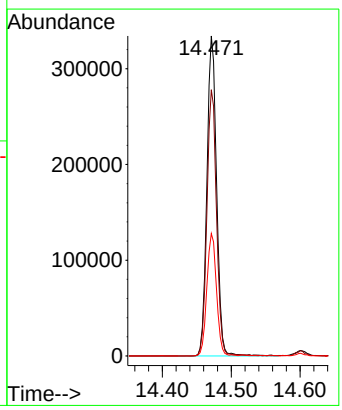
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

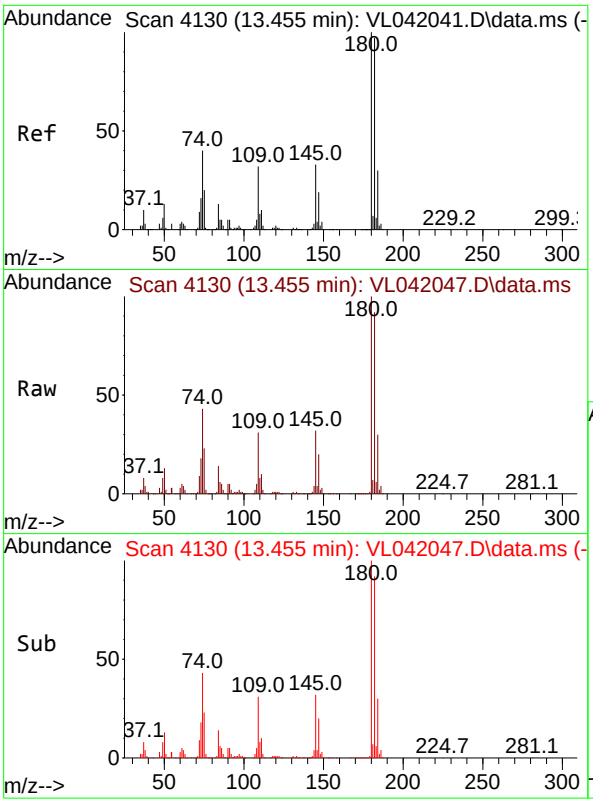


#80
Naphthalene,2-methyl-
Concen: 10.956 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:142 Resp: 324431

Ion	Ratio	Lower	Upper
142	100		
141	82.9	65.8	98.6
115	38.5	29.5	44.3

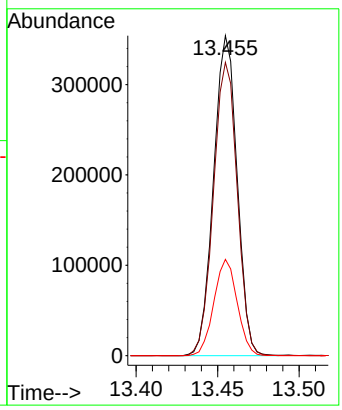




#81
1,2,4-Trichlorobenzene
Concen: 13.351 ppbv
RT: 13.455 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:180 Resp: 35499

Ion	Ratio	Lower	Upper
180	100		
182	92.9	75.1	112.7
184	29.9	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	158881	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	406520	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.904	117	350262	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	274527	10.188	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	158709	9.606	ppbv		99
3) Chlorodifluoromethane	1.479	51	219646	9.512	ppbv		100
4) Chloromethane	1.537	50	54628	8.941	ppbv		100
5) Vinyl Chloride	1.586	62	52672	9.114	ppbv		98
6) Bromomethane	1.673	94	25374	9.221	ppbv		100
7) Chloroethane	1.709	64	22174	9.443	ppbv	#	87
8) Dichlorotetrafluoroethane	1.560	85	127046	9.354	ppbv		100
9) Propene	1.489	41	90844	9.657	ppbv		96
10) Heptane	5.010	43	269133	9.188	ppbv		99
11) Trichlorofluoromethane	1.884	101	156871	9.476	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.149	101	115089	8.715	ppbv		99
13) Ethanol	1.728	45	2630	4.404	ppbv		98
14) Bromoethene	1.790	108	43546	9.338	ppbv		98
15) Acetone	1.842	43	118697	8.460	ppbv		97
16) 1,3-Butadiene	1.615	39	61603	9.434	ppbv		98
17) tert-Butyl alcohol	2.049	59	154116	8.779	ppbv		98
18) 1,1-Dichloroethene	2.042	96	51973	8.711	ppbv		98
19) Isopropyl Alcohol	1.894	45	69546	8.629	ppbv		96
20) Methylene Chloride	2.072	84	42028	7.919	ppbv		96
21) Allyl Chloride	2.104	41	90745	8.951	ppbv		98
22) trans-1,2-Dichloroethene	2.350	96	59140	8.502	ppbv		98
23) Vinyl Acetate	2.476	43	93605	9.488	ppbv	#	98
24) 1,1-Dichloroethane	2.421	63	112869	8.721	ppbv		100
25) Ethyl Acetate	2.852	43	533113	9.492	ppbv		99
26) Hexane	2.839	57	208955	9.203	ppbv		97
27) Carbon Disulfide	2.159	76	138176	8.978	ppbv		97
28) Methyl tert-Butyl Ether	2.453	73	94554	8.365	ppbv		100
29) Chloroform	2.865	83	281191	9.202	ppbv		97
30) Cyclohexane	3.878	84	168830	9.161	ppbv		94
31) cis-1,2-Dichloroethene	2.735	61	199564	9.285	ppbv		99
32) 1,1,1-Trichloroethane	3.386	97	278512	9.396	ppbv		98
34) 2-Butanone	2.570	43	308064	9.727	ppbv		97
35) Carbon Tetrachloride	3.784	117	276599	9.867	ppbv		98
36) Benzene	3.677	78	399804	9.395	ppbv		98
37) 1,2-Dichloroethane	3.233	62	223946	9.491	ppbv		99
38) Trichloroethene	4.573	130	156488	9.005	ppbv		96
39) 1,2-Dichloropropane	4.340	63	152063	9.414	ppbv		97
40) 1,4-Dioxane	4.616	88	65010	8.817	ppbv	#	98
41) Tetrahydrofuran	3.072	42	181453	9.696	ppbv		99
42) Bromodichloromethane	4.512	83	305385	9.606	ppbv		97
43) Methyl Methacrylate	4.910	69	160954	9.685	ppbv		95
44) 2,2,4-Trimethylpentane	4.667	57	712051	9.480	ppbv		99
45) t-1,3-Dichloropropene	6.447	75	159680	9.671	ppbv		90

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.635	75	206836	9.680	ppbv		96
47)	1,1,2-Trichloroethane	6.613	97	148220	9.039	ppbv		95
48)	Dibromochloromethane	7.412	129	241593	9.407	ppbv		100
49)	Bromoform	9.503	173	210370	9.432	ppbv		98
50)	4-Methyl-2-Pentanone	5.790	43	431123	10.526	ppbv		98
51)	2-Hexanone	7.464	43	354515	12.576	ppbv	#	100
52)	Tetrachloroethene	8.247	164	134062	9.202	ppbv		97
53)	Toluene	6.962	91	448495	9.430	ppbv		98
54)	1,2-Dibromoethane	7.677	107	206335	9.307	ppbv		96
56)	1,1,1,2-Tetrachloroethane	8.946	131	182800	9.234	ppbv		99
57)	Chlorobenzene	8.943	112	334696	9.216	ppbv		99
58)	Ethyl Benzene	9.377	91	613622	9.513	ppbv		99
59)	m/p-Xylene	9.571	91	977425m	19.041	ppbv		
60)	o-Xylene	9.985	91	481683	9.334	ppbv		100
61)	Styrene	9.891	104	241617	9.959	ppbv		99
62)	Isopropylbenzene	10.558	105	729350	9.437	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.982	83	312794	9.204	ppbv		99
64)	n-propylbenzene	11.008	120	192704	9.506	ppbv		99
65)	tert-Butylbenzene	11.548	119	632202	8.988	ppbv		100
66)	Benzyl Chloride	11.633	91	52645	9.808	ppbv		98
67)	sec-Butylbenzene	11.785	105	914405	9.090	ppbv		99
69)	p-Isopropyltoluene	11.940	119	753761	9.418	ppbv		100
70)	n-Butylbenzene	12.296	91	781034	9.560	ppbv		99
71)	2-Chlorotoluene	10.917	91	559993	9.399	ppbv		100
72)	4-Ethyltoluene	11.144	105	602156	9.557	ppbv		99
73)	1,3,5-Trimethylbenzene	11.222	105	505451	9.248	ppbv		100
74)	1,2,4-Trimethylbenzene	11.555	105	547176	8.891	ppbv		95
75)	1,3-Dichlorobenzene	11.623	146	324491	9.161	ppbv		98
76)	1,4-Dichlorobenzene	11.688	146	322712	9.176	ppbv		99
77)	1,2-Dichlorobenzene	11.963	146	312159	9.081	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.895	225	228480	8.543	ppbv		99
79)	Naphthalene	13.529	128	513148	12.160	ppbv		98
80)	Naphthalene,2-methyl-	14.474	142	198077	17.152	ppbv		98
81)	1,2,4-Trichlorobenzene	13.455	180	234354	9.965	ppbv		97

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

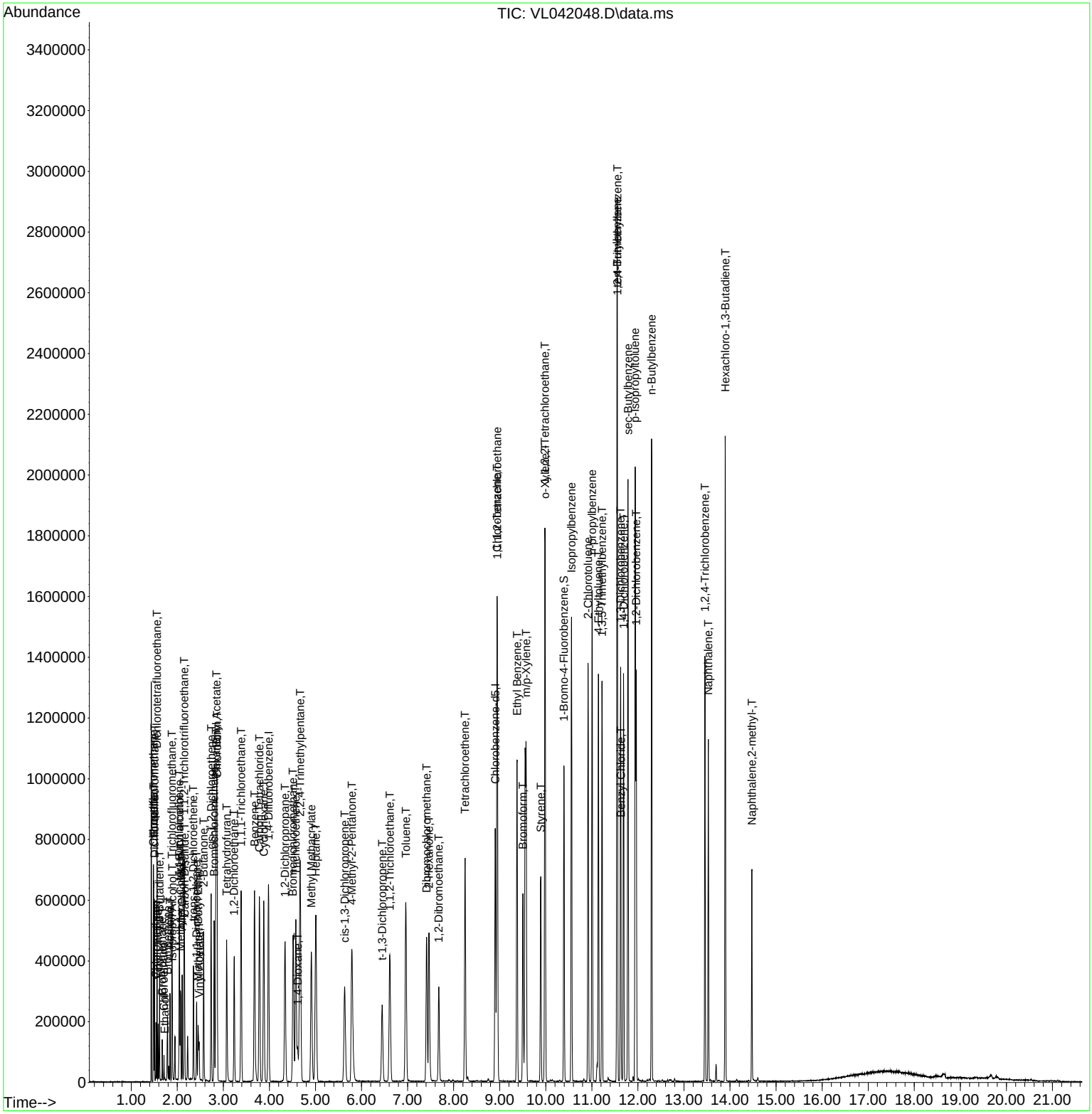
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

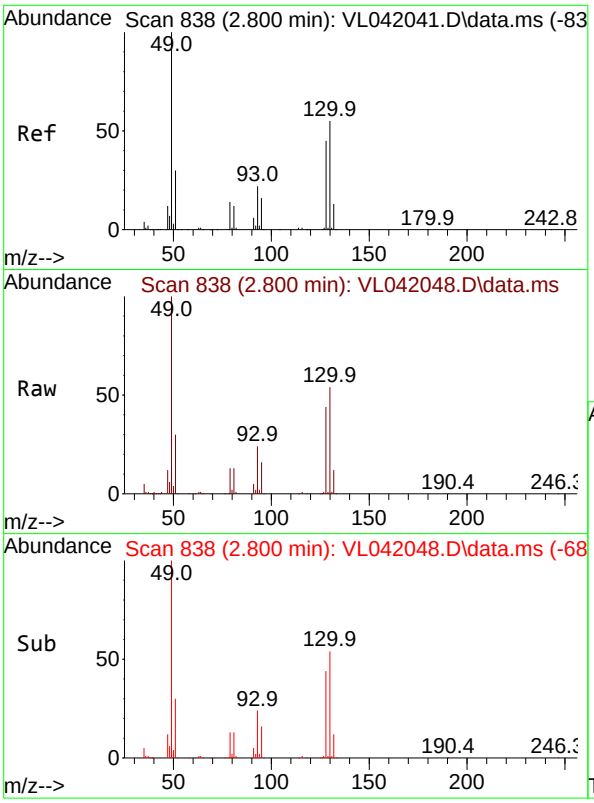
Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

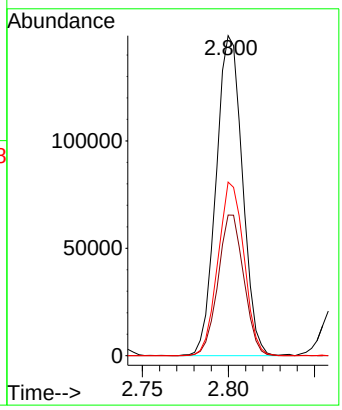




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 49 Resp: 15888

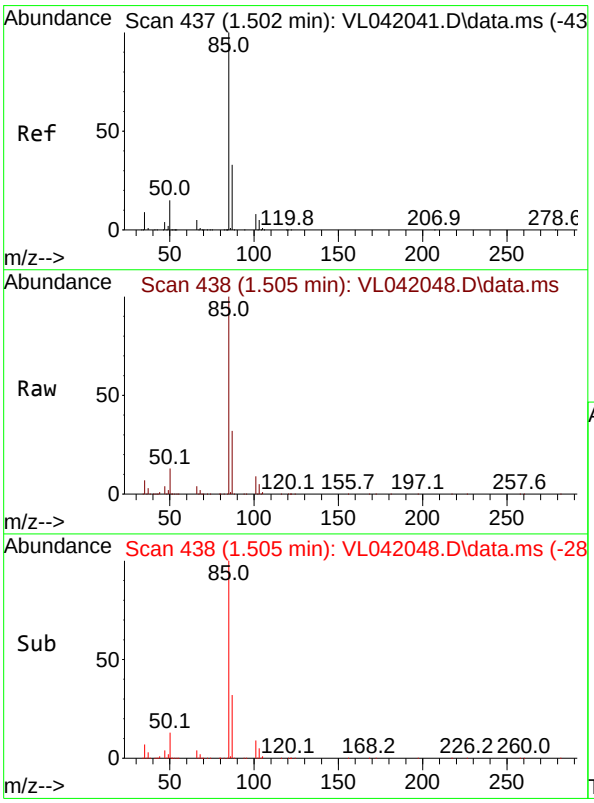
Ion	Ratio	Lower	Upper
49	100		
128	43.0	21.6	64.8
130	53.4	27.8	83.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

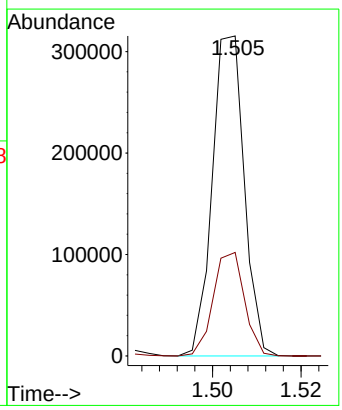
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

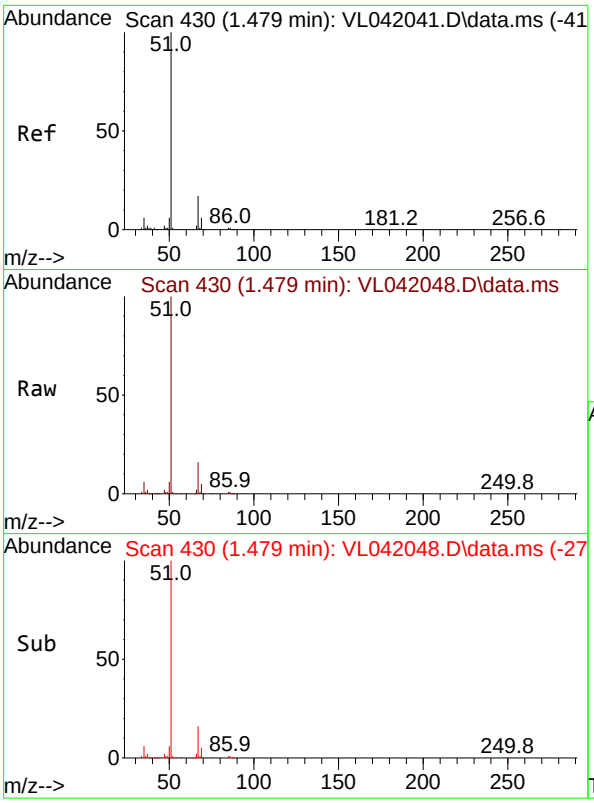


#2
Dichlorodifluoromethane
Concen: 9.606 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 85 Resp: 158709

Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.4	39.6

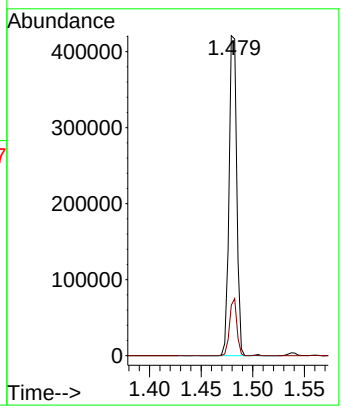




#3
Chlorodifluoromethane
Concen: 9.512 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 51 Resp: 21964

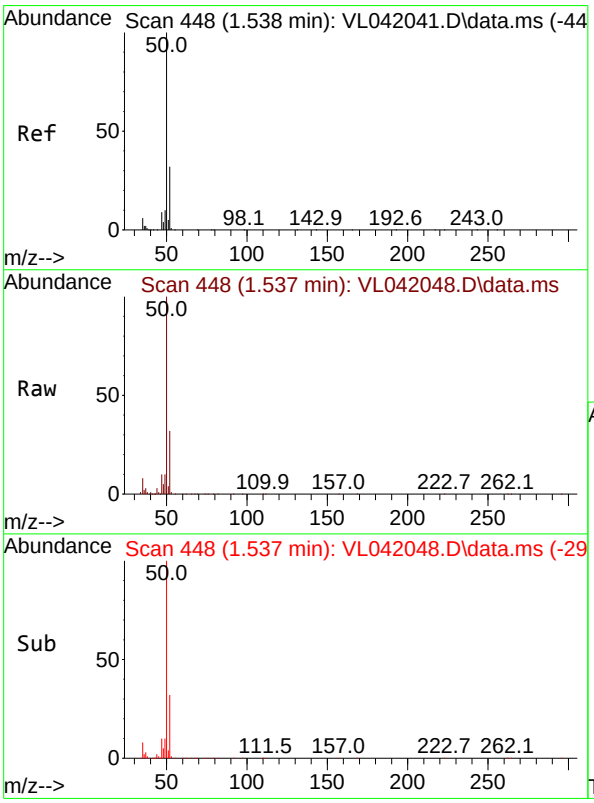
Ion	Ratio	Lower	Upper
51	100		
67	16.9	13.7	20.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

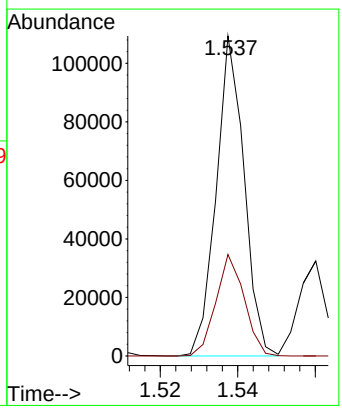
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

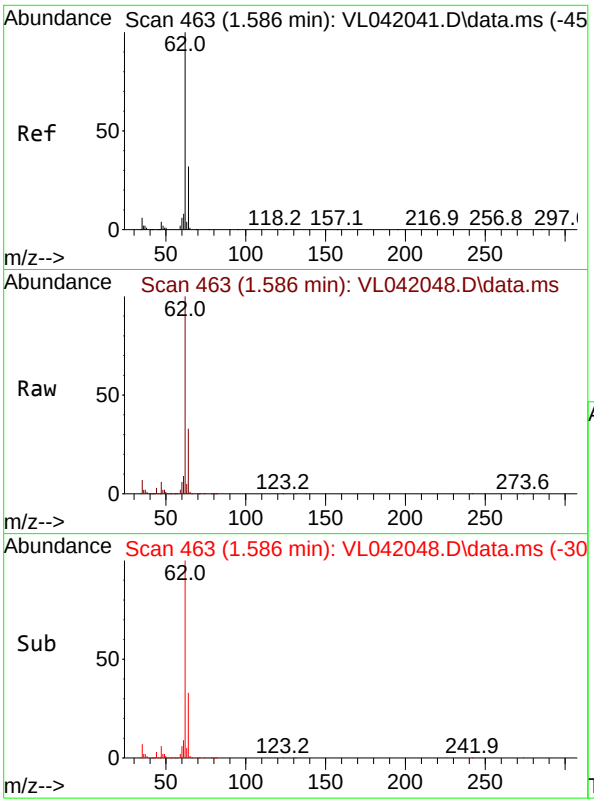


#4
Chloromethane
Concen: 8.941 ppbv
RT: 1.537 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 50 Resp: 54628

Ion	Ratio	Lower	Upper
50	100		
52	31.7	25.4	38.0

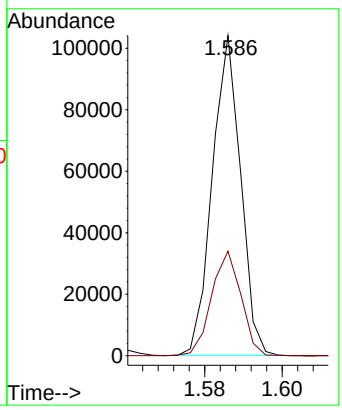




#5
Vinyl Chloride
Concen: 9.114 ppbv
RT: 1.586 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 62 Resp: 5267

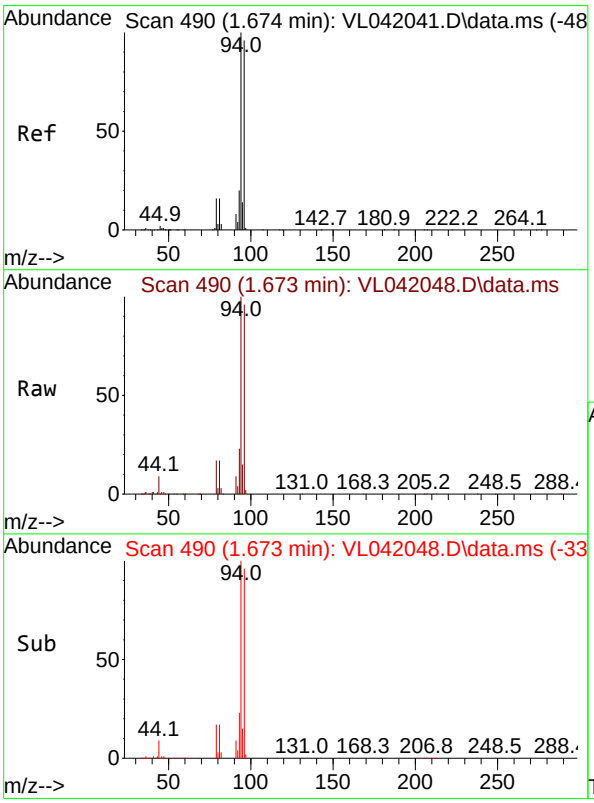
Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.3	37.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

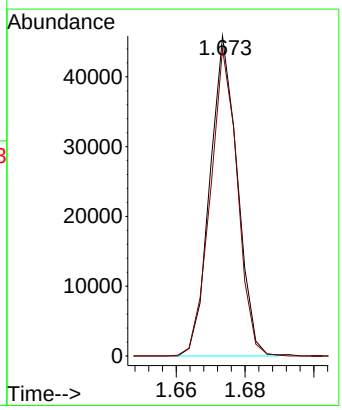
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

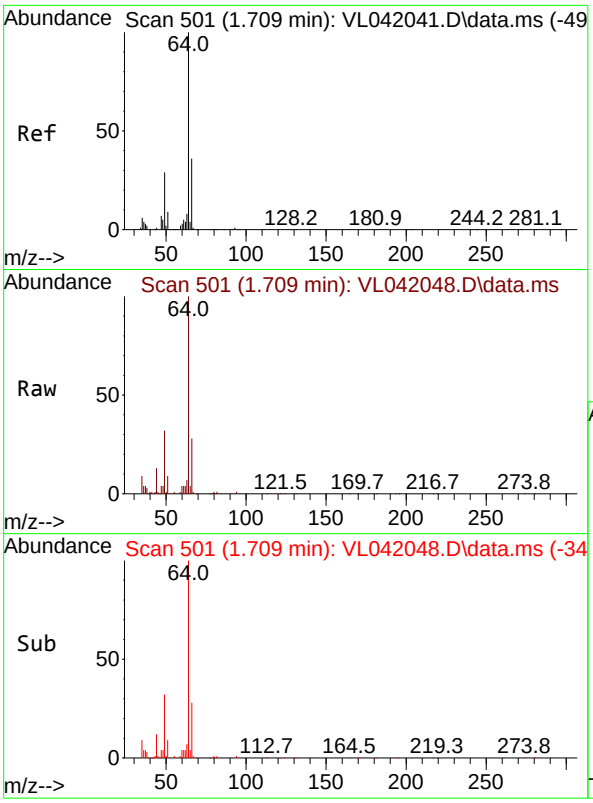


#6
Bromomethane
Concen: 9.221 ppbv
RT: 1.673 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 94 Resp: 25374

Ion	Ratio	Lower	Upper
94	100		
96	96.0	76.5	114.7

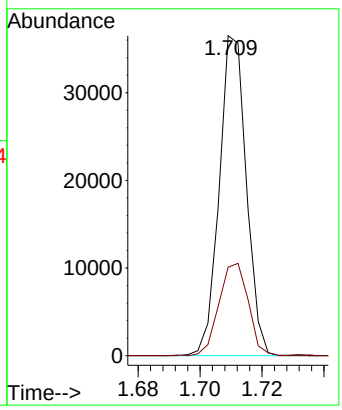




#7
Chloroethane
Concen: 9.443 ppbv
RT: 1.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 64 Resp: 2217

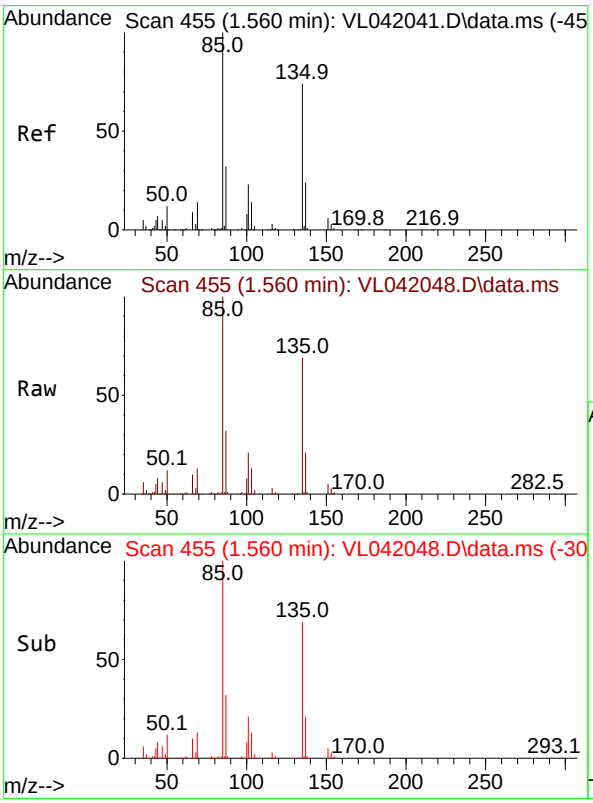
Ion	Ratio	Lower	Upper
64	100		
66	27.6	28.4	42.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

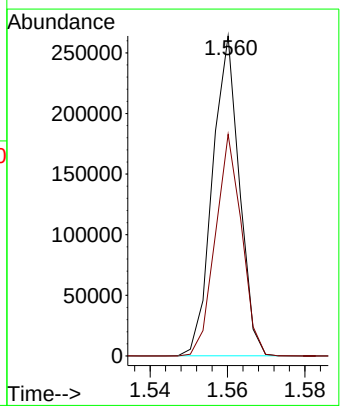
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

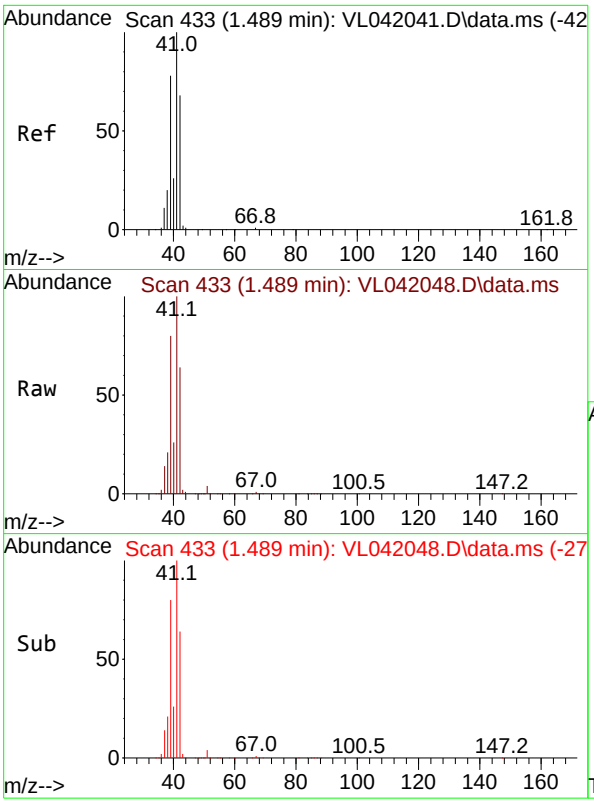


#8
Dichlorotetrafluoroethane
Concen: 9.354 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 85 Resp: 127046

Ion	Ratio	Lower	Upper
85	100		
135	68.0	54.6	81.8

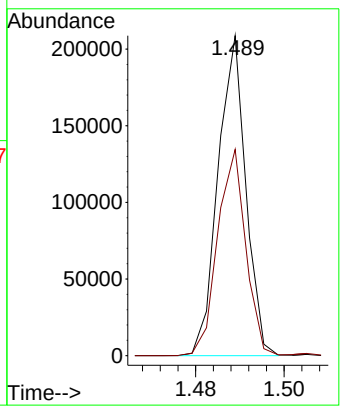




#9
Propene
Concen: 9.657 ppbv
RT: 1.489 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 41 Resp: 9084

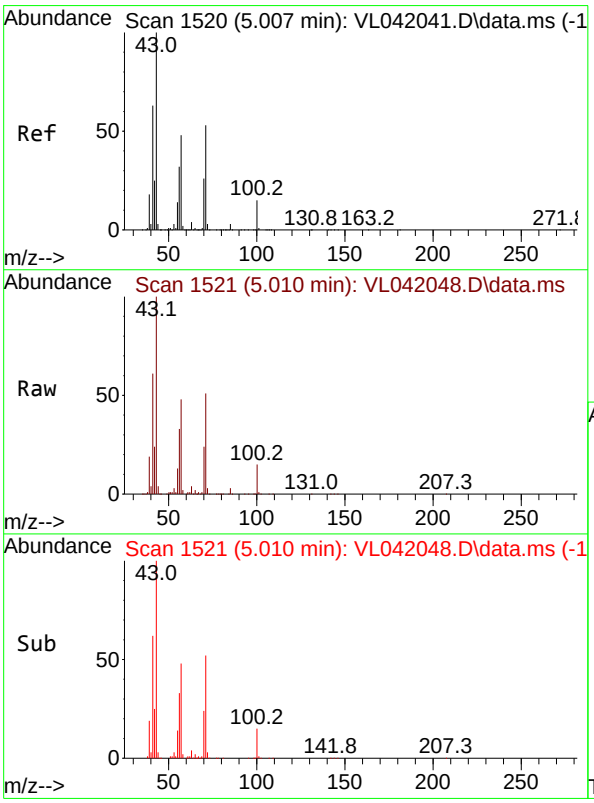
Ion	Ratio	Lower	Upper
41	100		
42	66.2	55.8	83.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

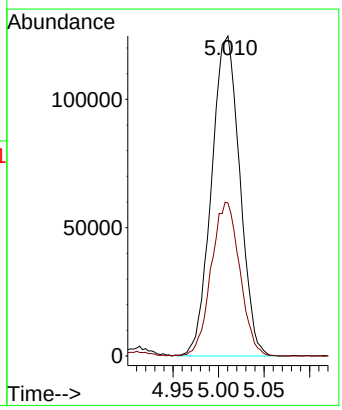
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

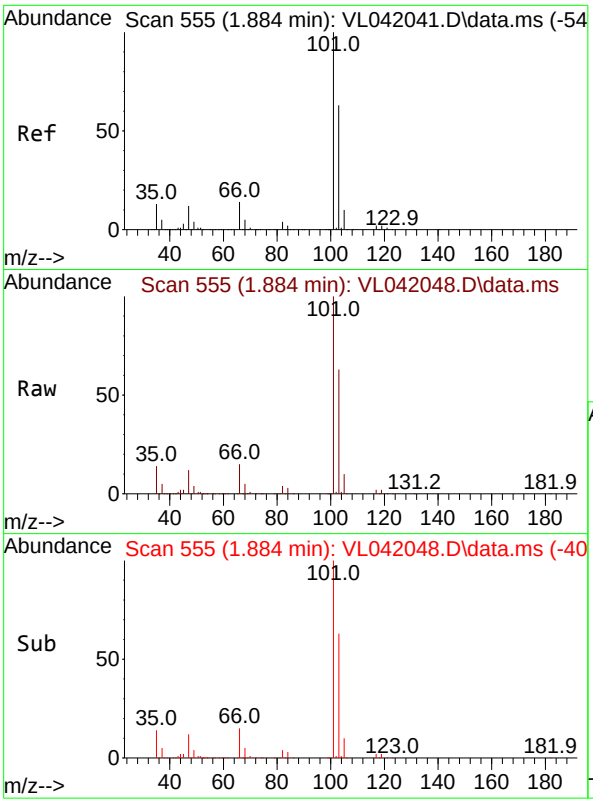


#10
Heptane
Concen: 9.188 ppbv
RT: 5.010 min Scan# 1521
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 43 Resp: 269133

Ion	Ratio	Lower	Upper
43	100		
57	48.6	39.4	59.0

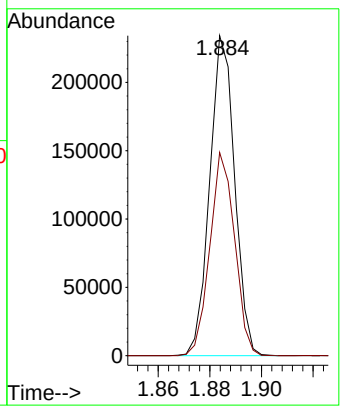




#11
Trichlorofluoromethane
Concen: 9.476 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:101 Resp: 15687

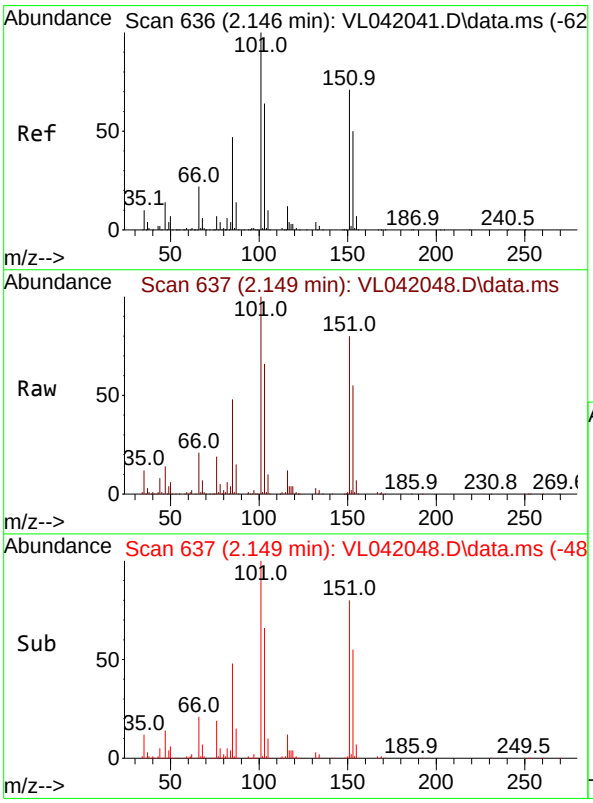
Ion	Ratio	Lower	Upper
101	100		
103	63.5	50.6	75.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

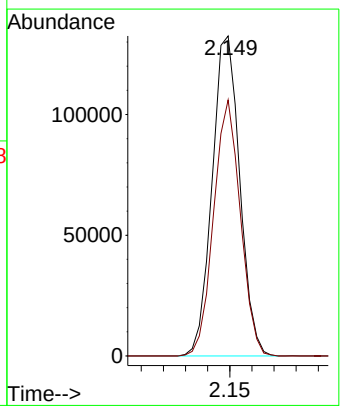
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

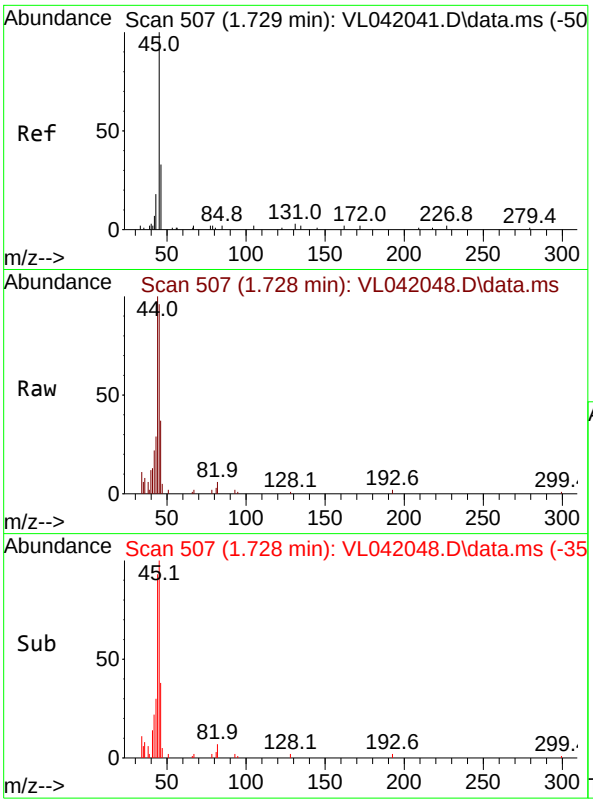


#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.715 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:101 Resp: 115089

Ion	Ratio	Lower	Upper
101	100		
151	77.3	62.6	94.0

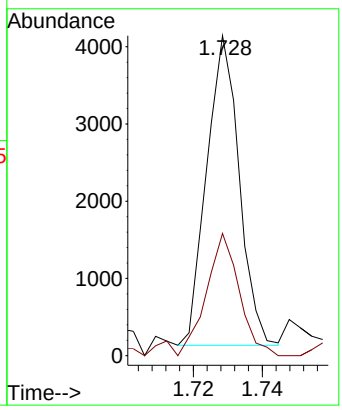




#13
Ethanol
Concen: 4.404 ppbv
RT: 1.728 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 45 Resp: 263(

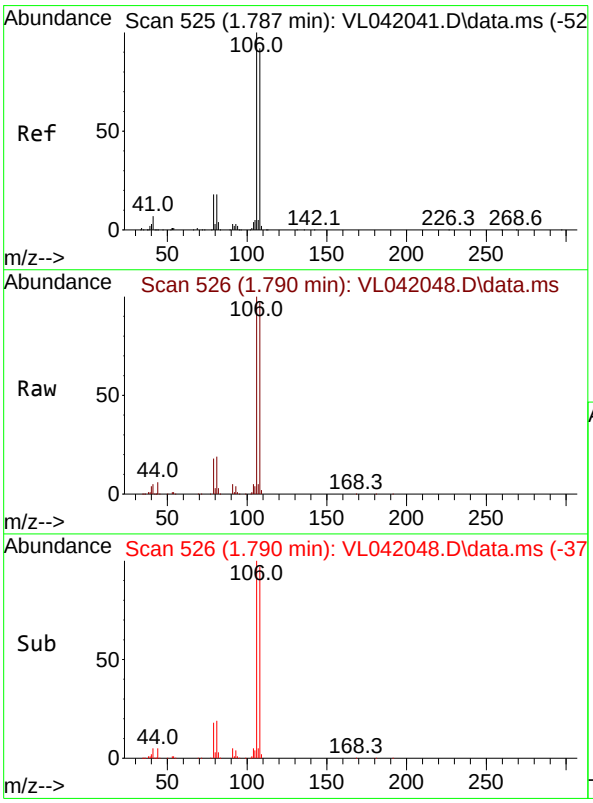
Ion	Ratio	Lower	Upper
45	100		
46	44.0	17.1	68.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

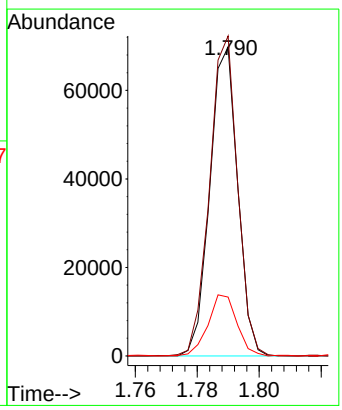
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

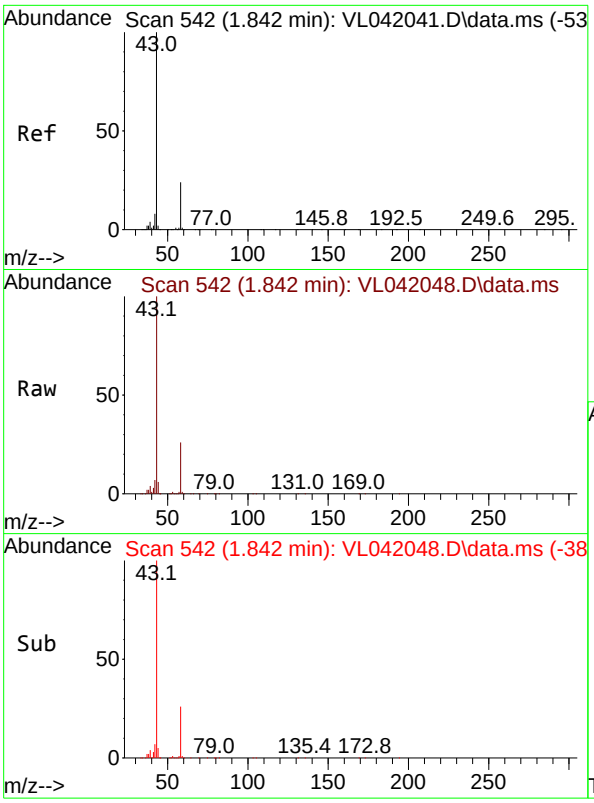


#14
Bromoethene
Concen: 9.338 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:108 Resp: 43546

Ion	Ratio	Lower	Upper
108	100		
106	104.1	85.4	128.0
79	21.0	16.5	24.7

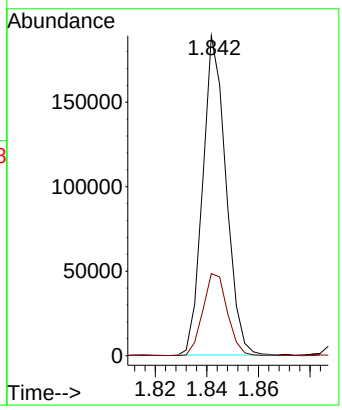




#15
Acetone
Concen: 8.460 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 43 Resp: 11869

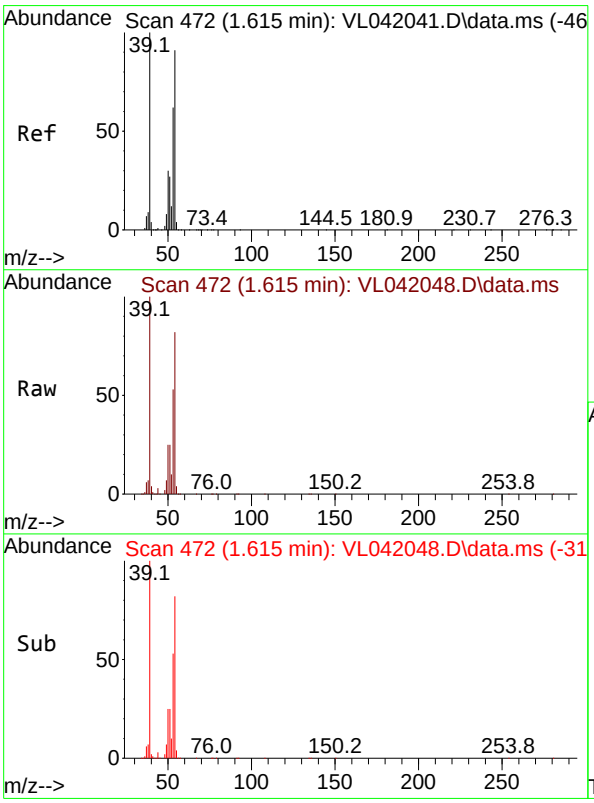
Ion	Ratio	Lower	Upper
43	100		
58	27.3	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

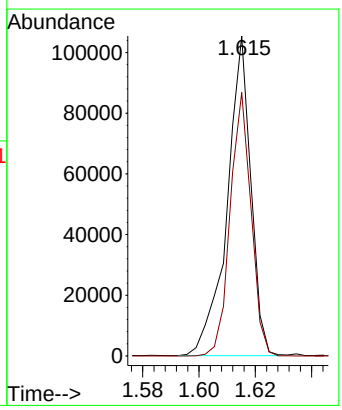
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

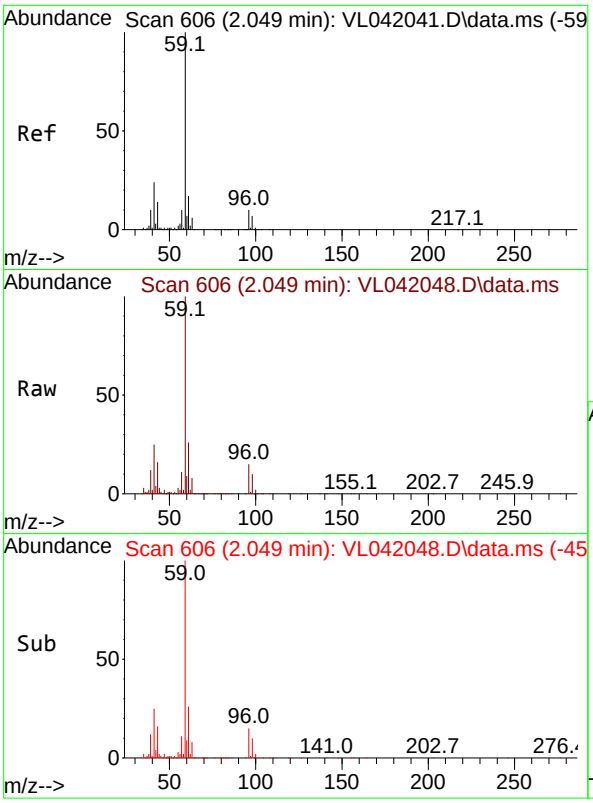


#16
1,3-Butadiene
Concen: 9.434 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 39 Resp: 61603

Ion	Ratio	Lower	Upper
39	100		
54	72.5	59.6	89.4

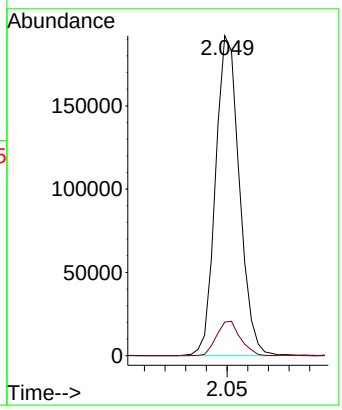




#17
tert-Butyl alcohol
Concen: 8.779 ppbv
RT: 2.049 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 59 Resp: 15411

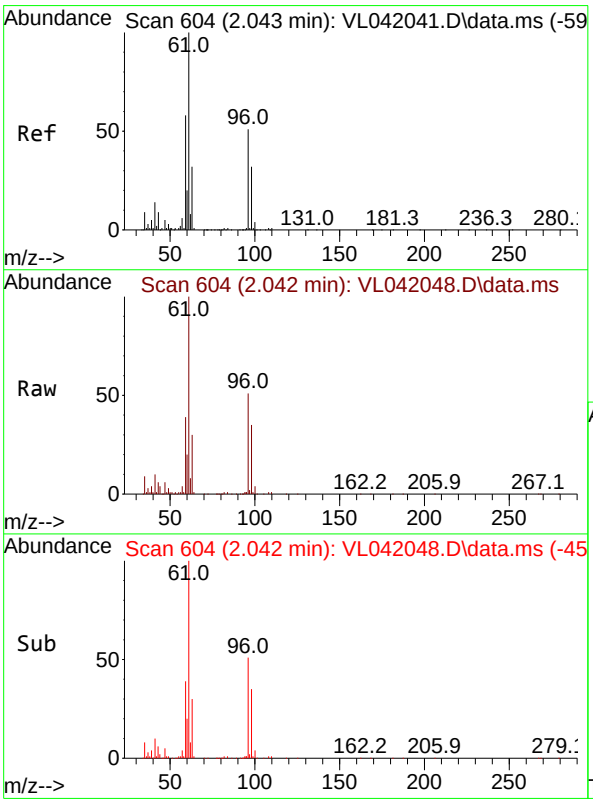
Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

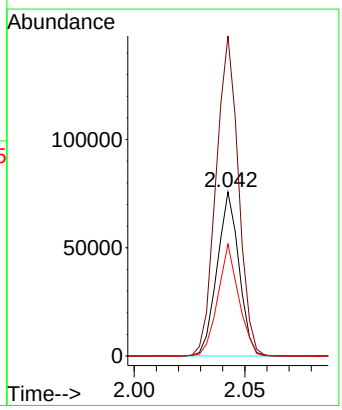
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

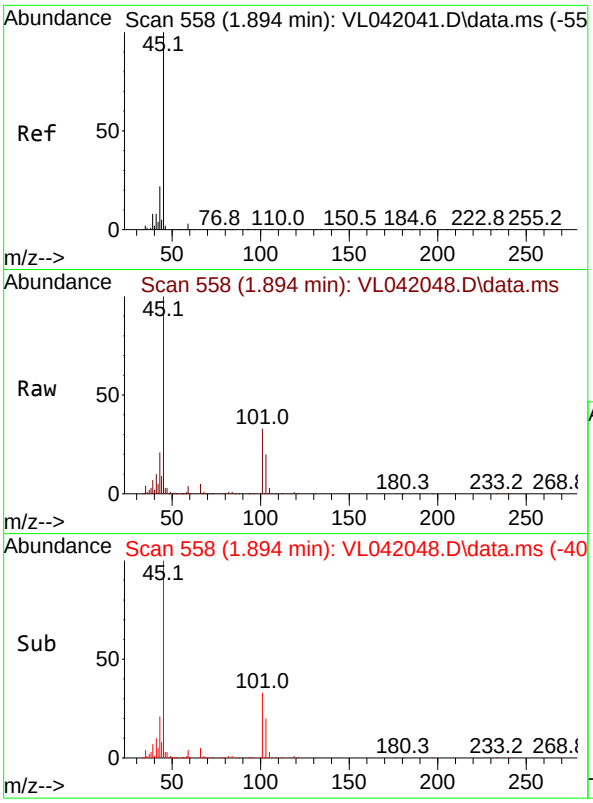


#18
1,1-Dichloroethene
Concen: 8.711 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 96 Resp: 51973

Ion	Ratio	Lower	Upper
96	100		
61	195.1	156.0	234.0
98	68.3	49.4	74.2

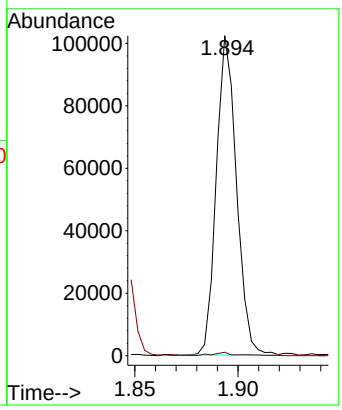




#19
Isopropyl Alcohol
Concen: 8.629 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 45 Resp: 6954

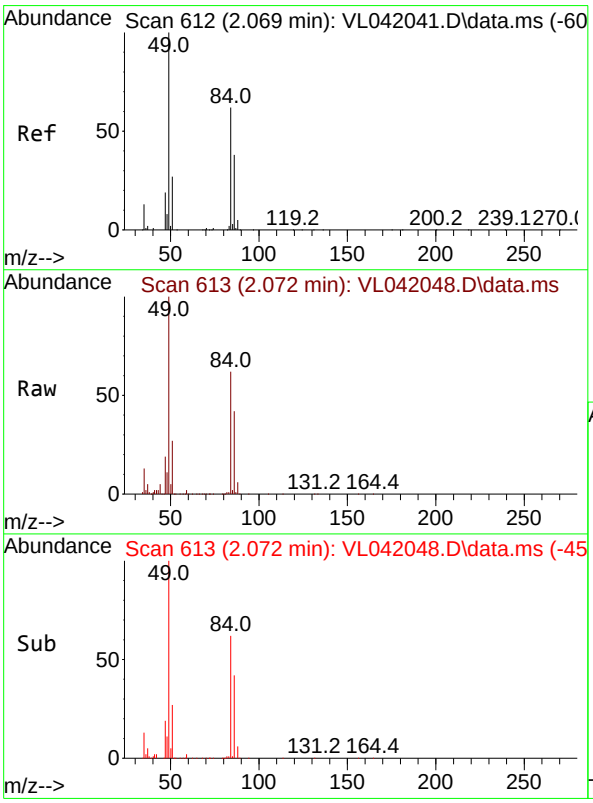
Ion	Ratio	Lower	Upper
45	100		
58	46.7	35.3	52.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

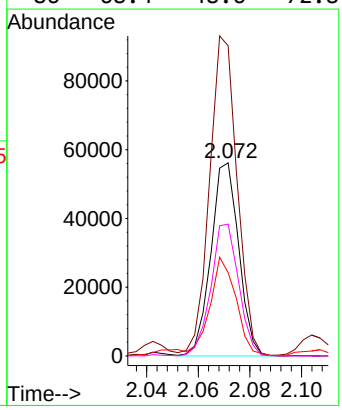
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

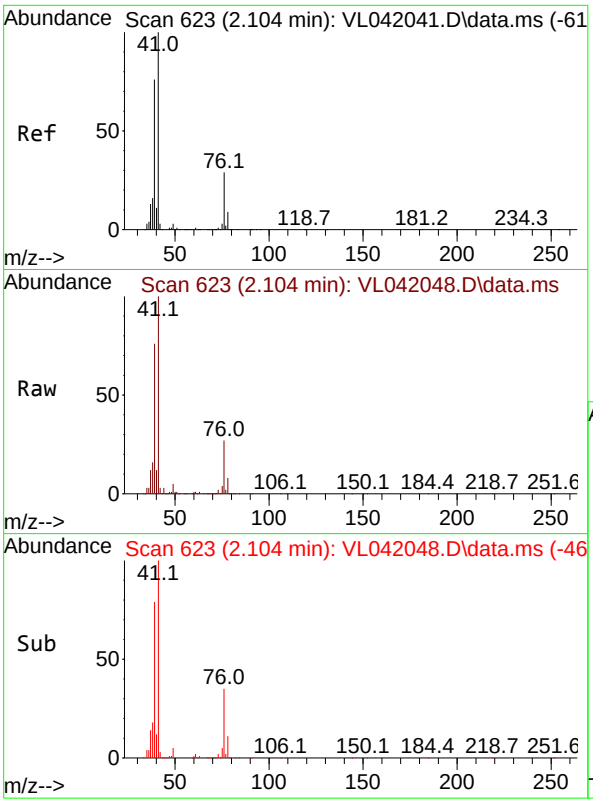


#20
Methylene Chloride
Concen: 7.919 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 84 Resp: 42028

Ion	Ratio	Lower	Upper
84	100		
49	160.5	130.0	195.0
51	43.0	37.4	56.0
86	68.4	48.6	72.8

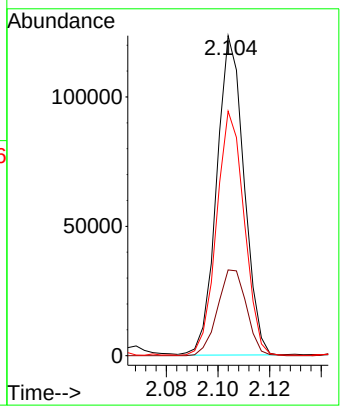




#21
Allyl Chloride
Concen: 8.951 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 41 Resp: 9074

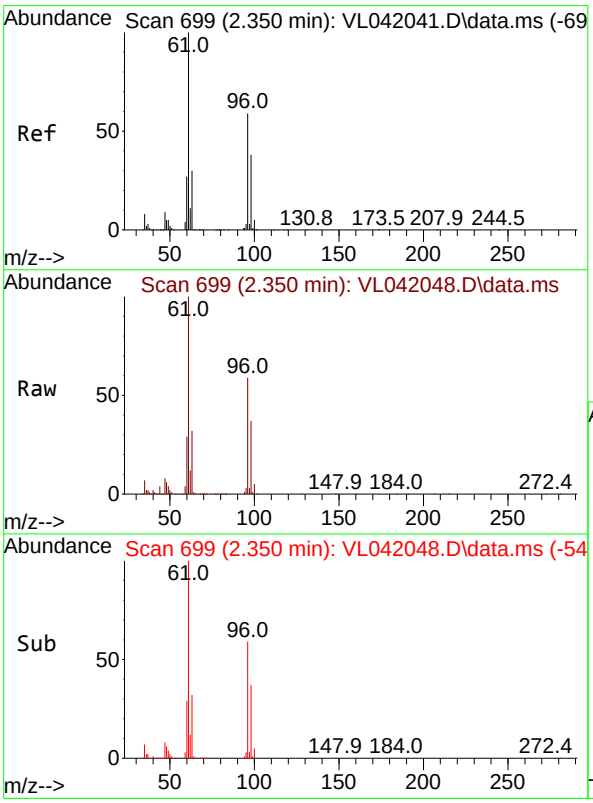
Ion	Ratio	Lower	Upper
41	100		
76	28.5	23.8	35.6
39	77.5	63.8	95.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

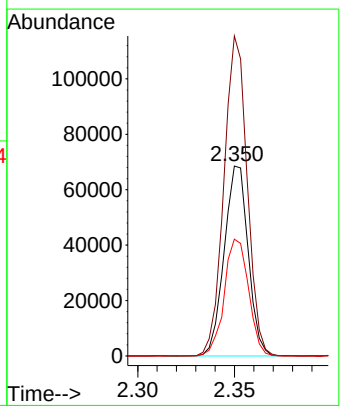
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

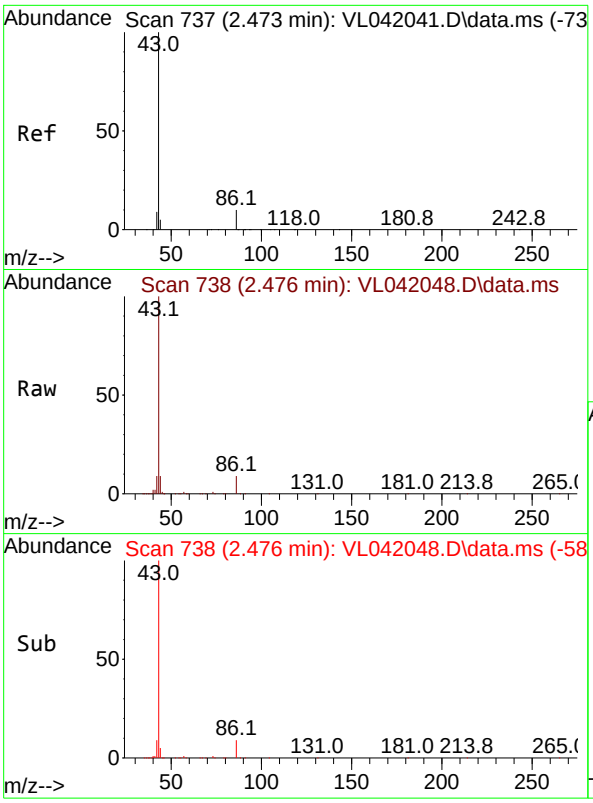


#22
trans-1,2-Dichloroethene
Concen: 8.502 ppbv
RT: 2.350 min Scan# 699
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 96 Resp: 59140

Ion	Ratio	Lower	Upper
96	100		
61	168.4	136.6	205.0
98	61.5	51.8	77.6

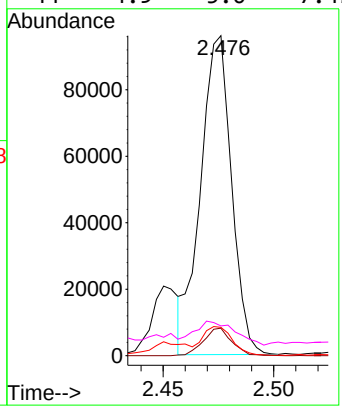




#23
Vinyl Acetate
Concen: 9.488 ppbv
RT: 2.476 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 43 Resp: 9360

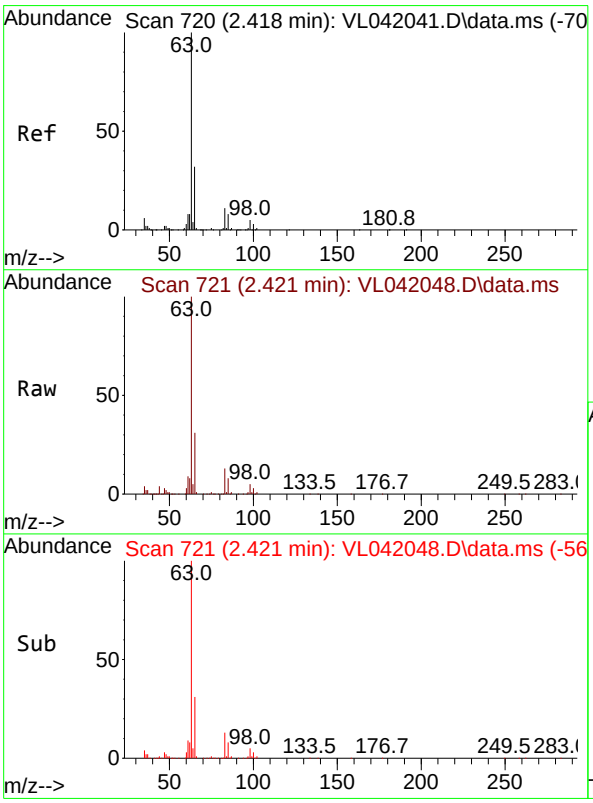
Ion	Ratio	Lower	Upper
43	100		
86	8.6	7.0	10.4
42	8.3	7.6	11.4
44	4.9	5.0	7.4#



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

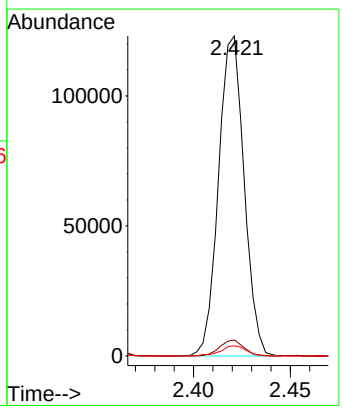
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

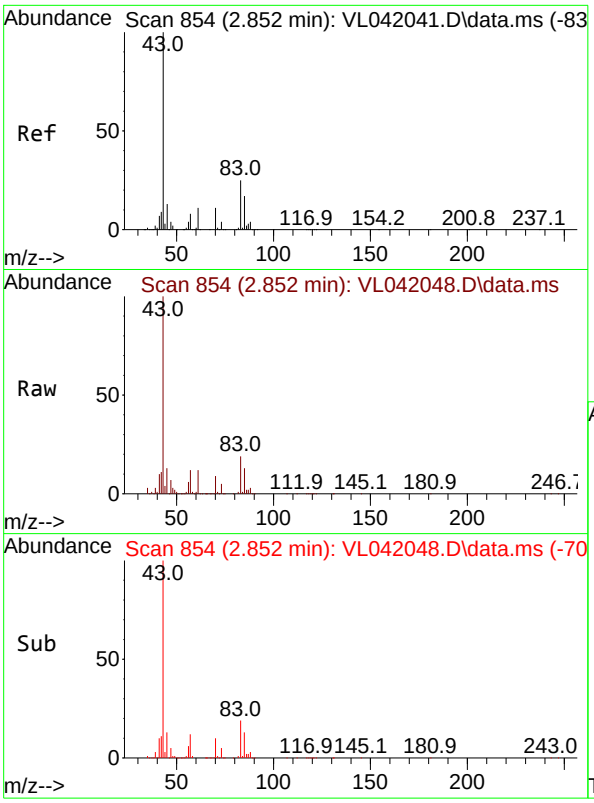


#24
1,1-Dichloroethane
Concen: 8.721 ppbv
RT: 2.421 min Scan# 721
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 63 Resp: 112869

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.4	7.2
100	3.2	1.7	5.0

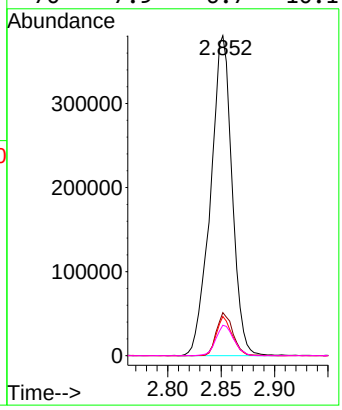




#25
Ethyl Acetate
Concen: 9.492 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 43 Resp: 53311

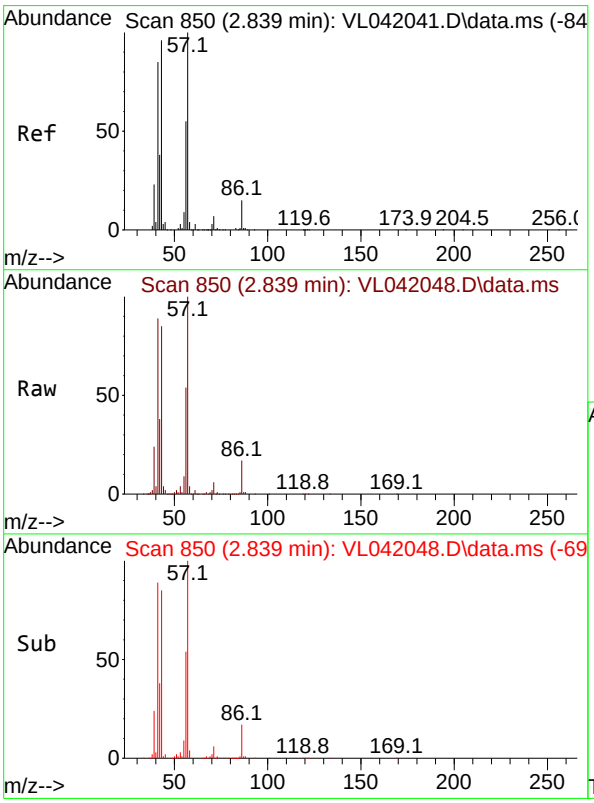
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.1	12.1
61	9.0	7.2	10.8
70	7.9	6.7	10.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

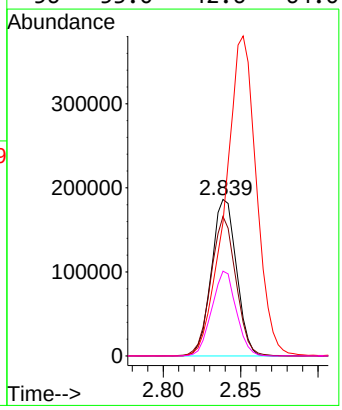
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

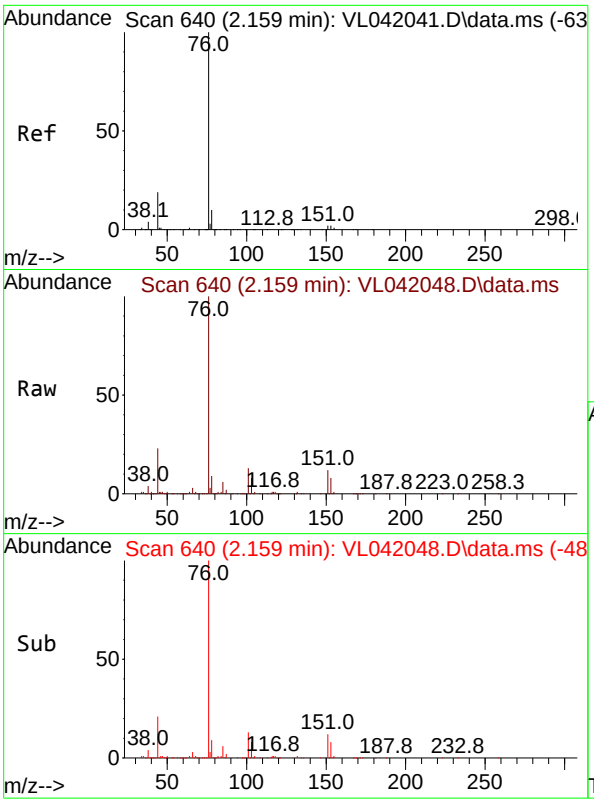


#26
Hexane
Concen: 9.203 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 57 Resp: 208955

Ion	Ratio	Lower	Upper
57	100		
41	89.5	70.6	106.0
43	256.2	199.4	299.0
56	53.0	42.6	64.0

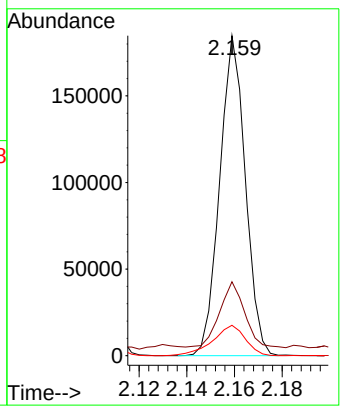




#27
Carbon Disulfide
Concen: 8.978 ppbv
RT: 2.159 min Scan# 64
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 76 Resp: 13817

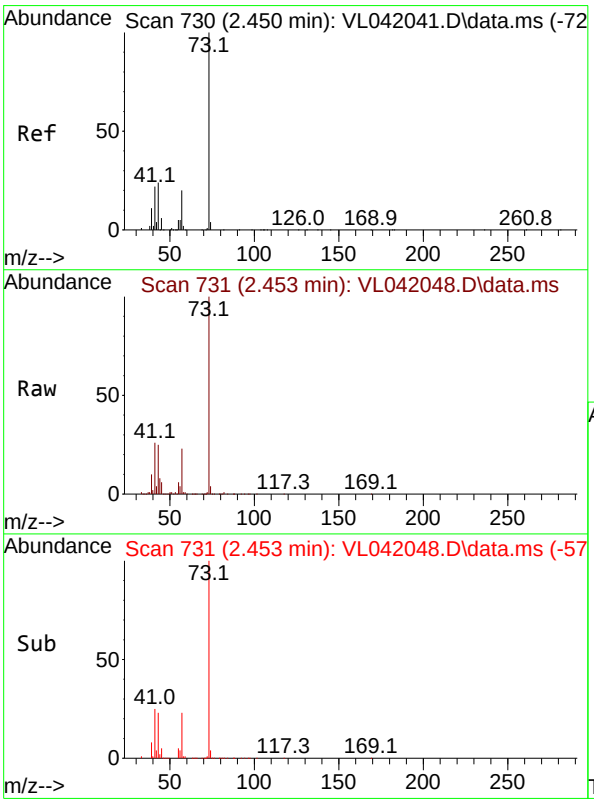
Ion	Ratio	Lower	Upper
76	100		
44	21.9	16.2	24.2
78	12.1	9.4	14.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

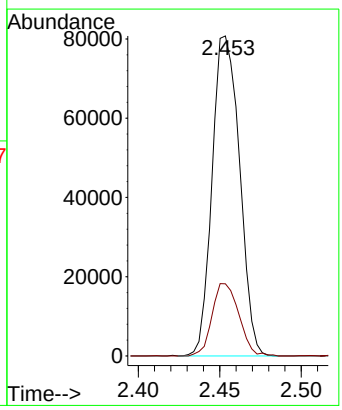
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

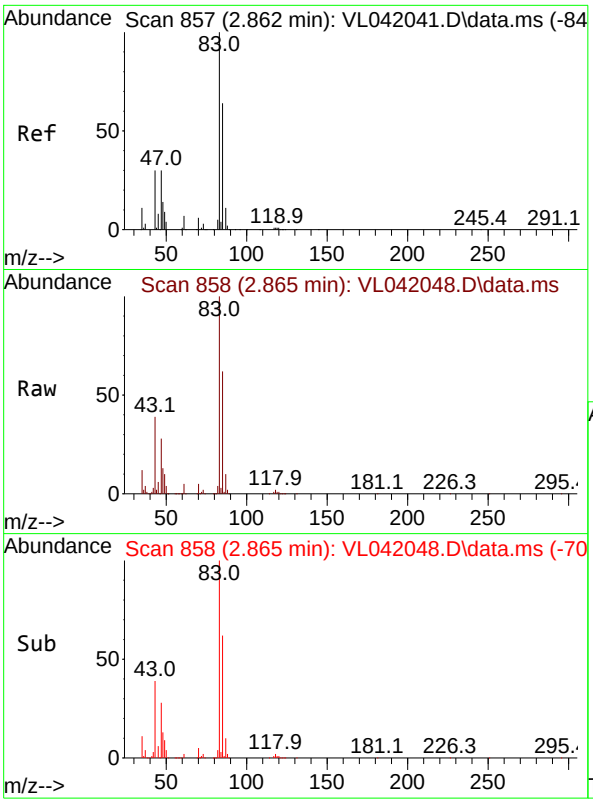


#28
Methyl tert-Butyl Ether
Concen: 8.365 ppbv
RT: 2.453 min Scan# 731
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 73 Resp: 94554

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.7	26.5

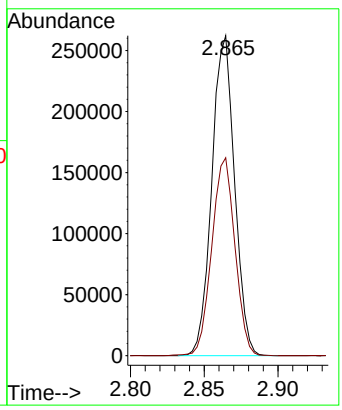




#29
Chloroform
Concen: 9.202 ppbv
RT: 2.865 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 83 Resp: 28119

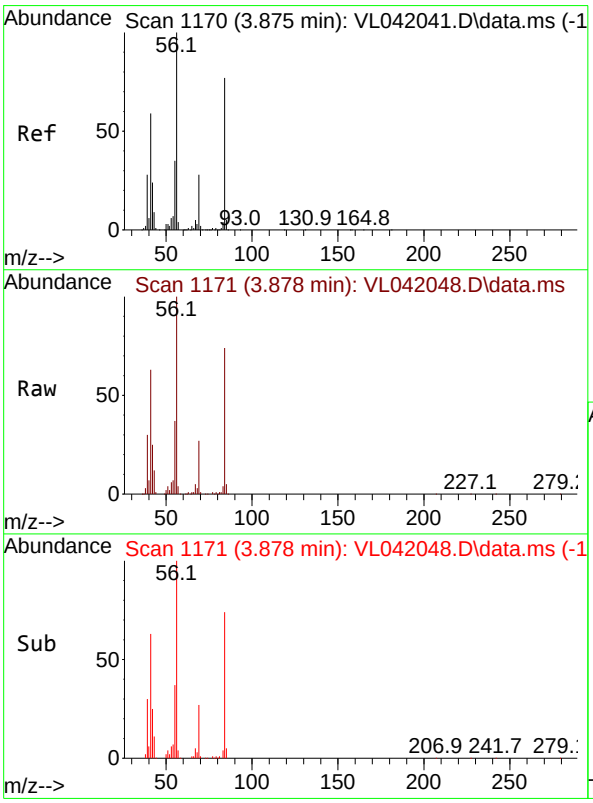
Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.2	76.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

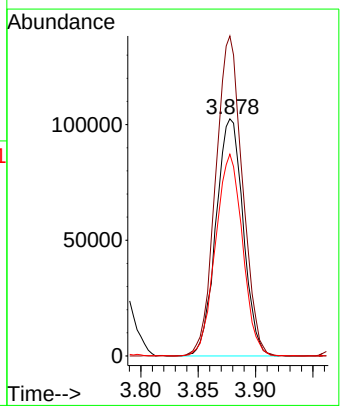
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

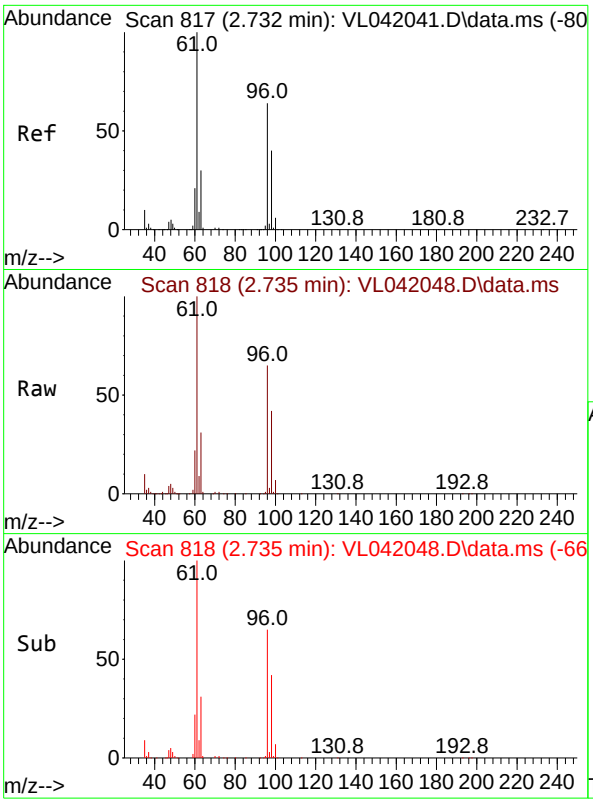


#30
Cyclohexane
Concen: 9.161 ppbv
RT: 3.878 min Scan# 1171
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 84 Resp: 168830

Ion	Ratio	Lower	Upper
84	100		
56	133.0	101.5	152.3
41	84.8	62.6	93.8

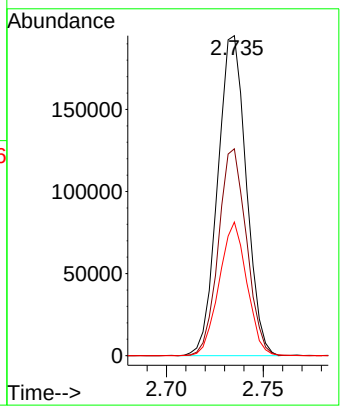




#31
cis-1,2-Dichloroethene
Concen: 9.285 ppbv
RT: 2.735 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 61 Resp: 19956

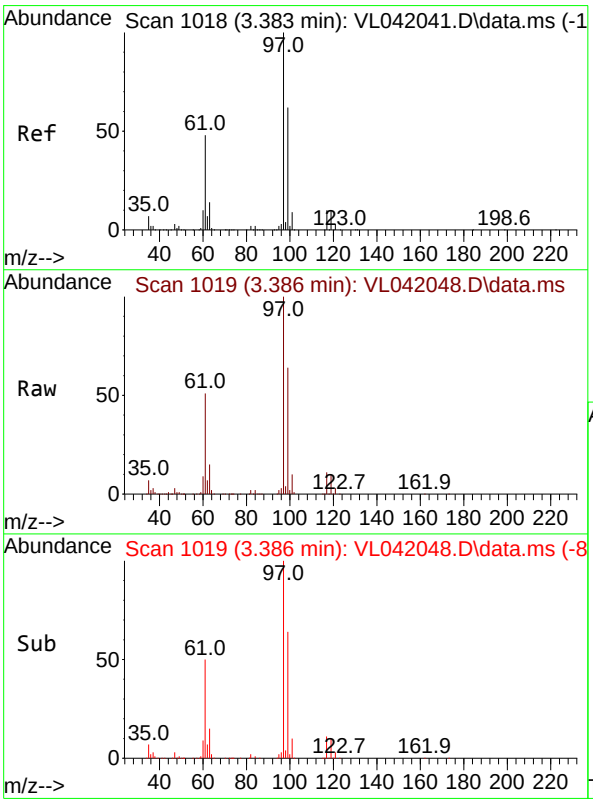
Ion	Ratio	Lower	Upper
61	100		
96	64.7	51.5	77.3
98	41.8	32.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

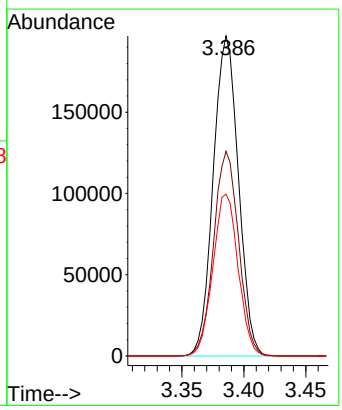
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

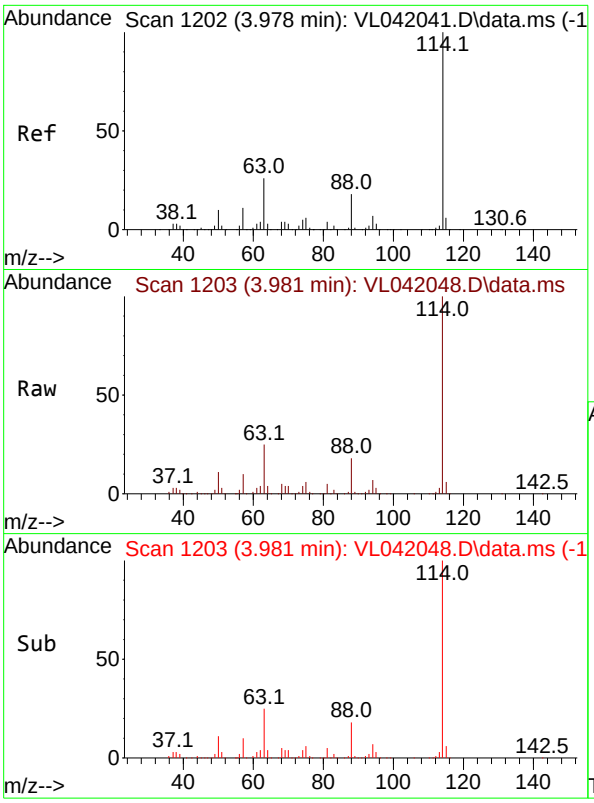


#32
1,1,1-Trichloroethane
Concen: 9.396 ppbv
RT: 3.386 min Scan# 1019
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 97 Resp: 278512

Ion	Ratio	Lower	Upper
97	100		
99	63.6	49.8	74.6
61	50.8	38.9	58.3

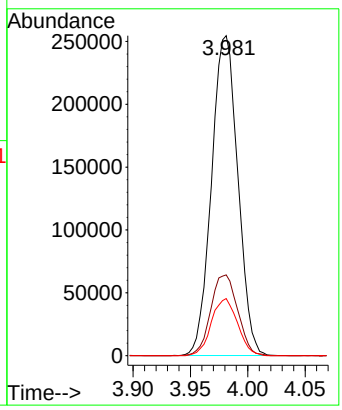




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:114 Resp: 40652

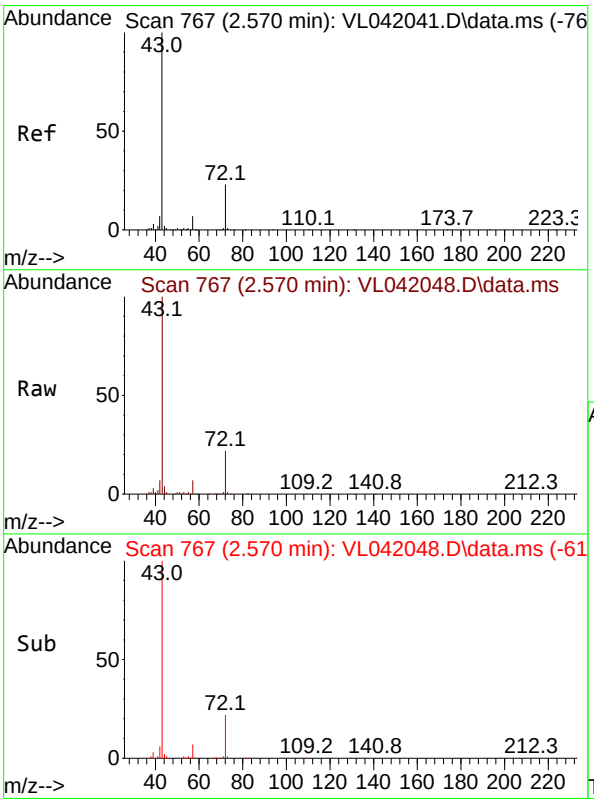
Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.1	30.1
88	17.8	14.3	21.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

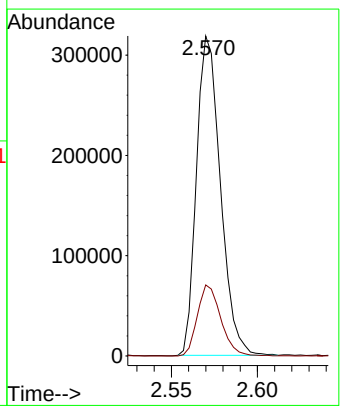
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

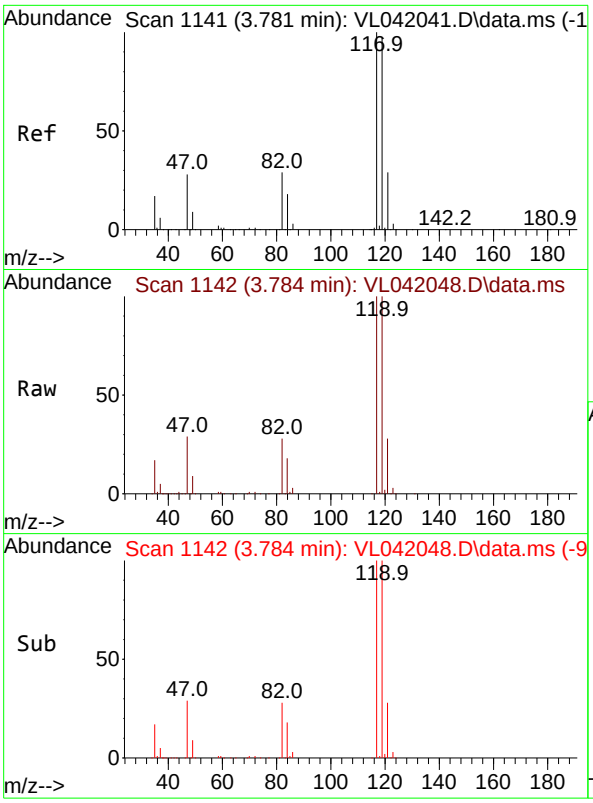


#34
2-Butanone
Concen: 9.727 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 43 Resp: 308064

Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.5	27.7

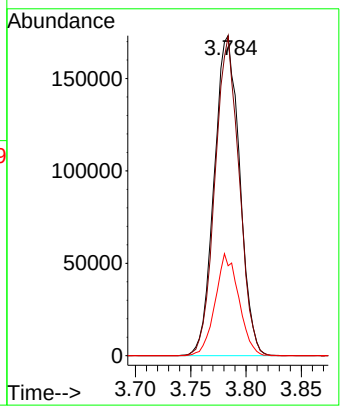




#35
Carbon Tetrachloride
Concen: 9.867 ppbv
RT: 3.784 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:117 Resp: 27659

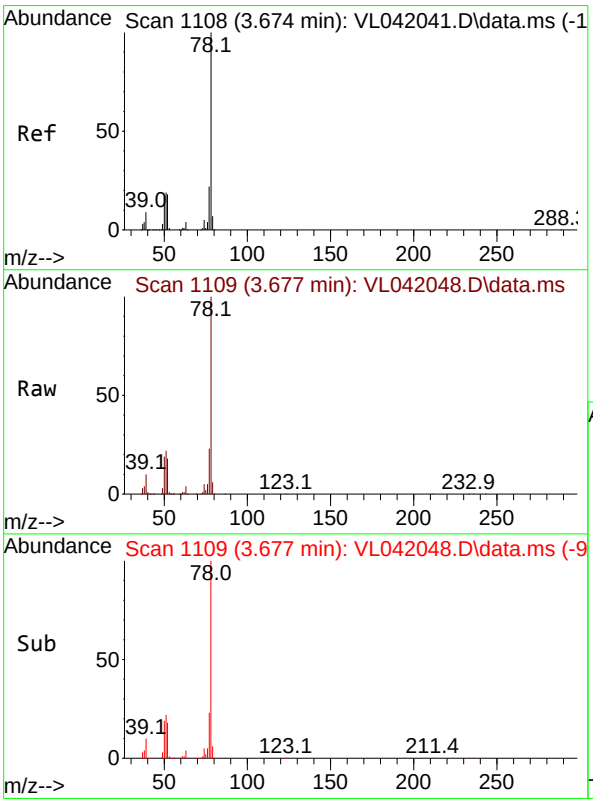
Ion	Ratio	Lower	Upper
117	100		
119	99.7	77.8	116.8
121	28.1	23.4	35.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

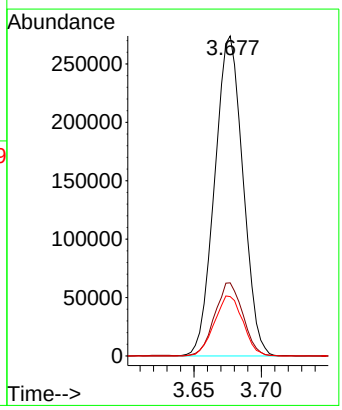
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

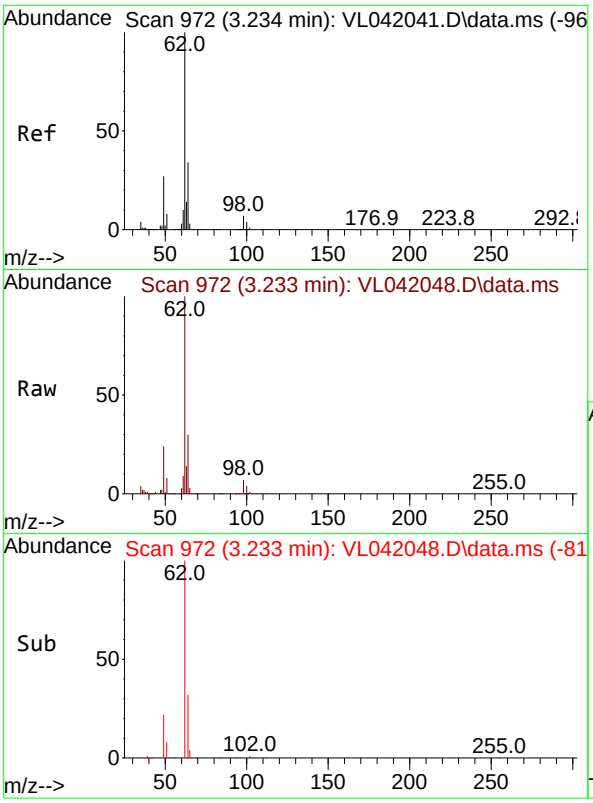


#36
Benzene
Concen: 9.395 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 78 Resp: 399804

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.7	26.5
50	18.6	13.9	20.9

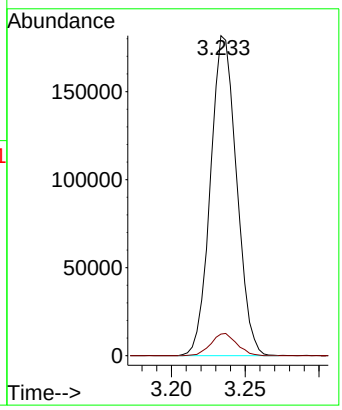




#37
1,2-Dichloroethane
Concen: 9.491 ppbv
RT: 3.233 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 62 Resp: 22394

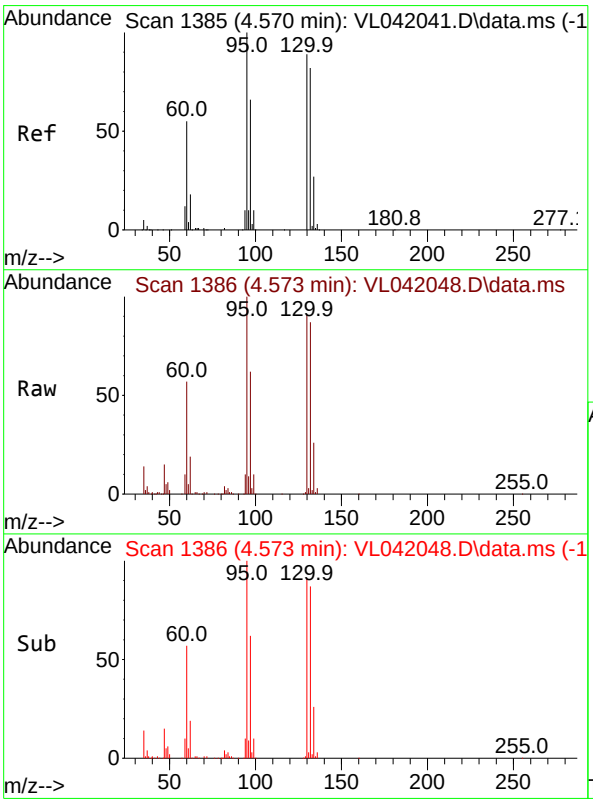
Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

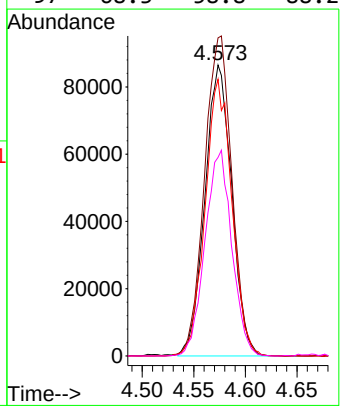
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

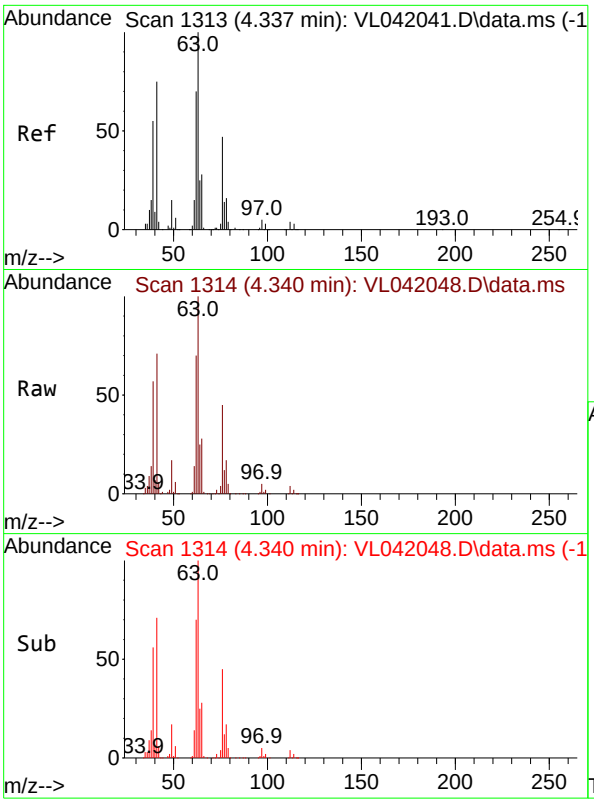


#38
Trichloroethene
Concen: 9.005 ppbv
RT: 4.573 min Scan# 1386
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:130 Resp: 156488

Ion	Ratio	Lower	Upper
130	100		
95	109.3	89.5	134.3
132	95.1	73.8	110.6
97	68.3	58.8	88.2

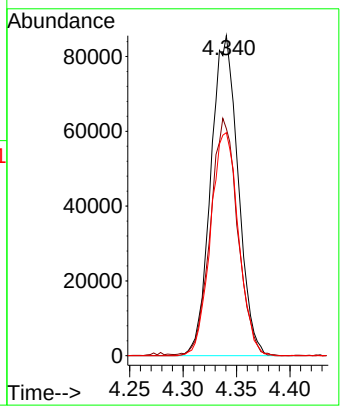




#39
1,2-Dichloropropane
Concen: 9.414 ppbv
RT: 4.340 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 63 Resp: 15206

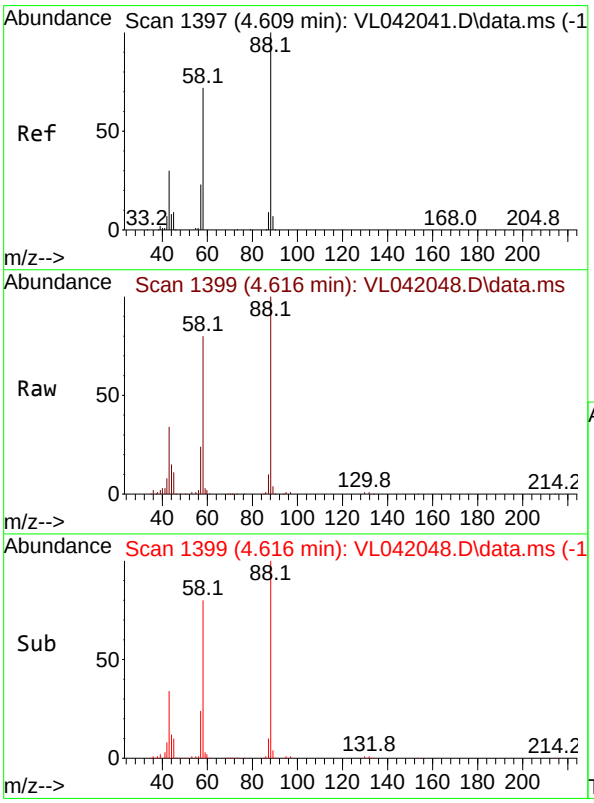
Ion	Ratio	Lower	Upper
63	100		
41	70.8	60.1	90.1
62	69.7	55.8	83.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

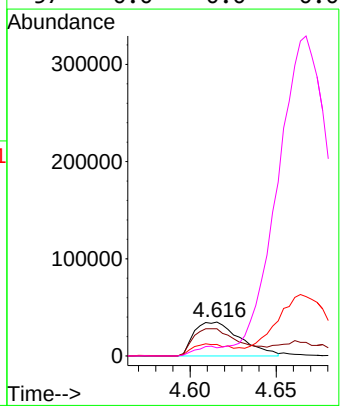
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

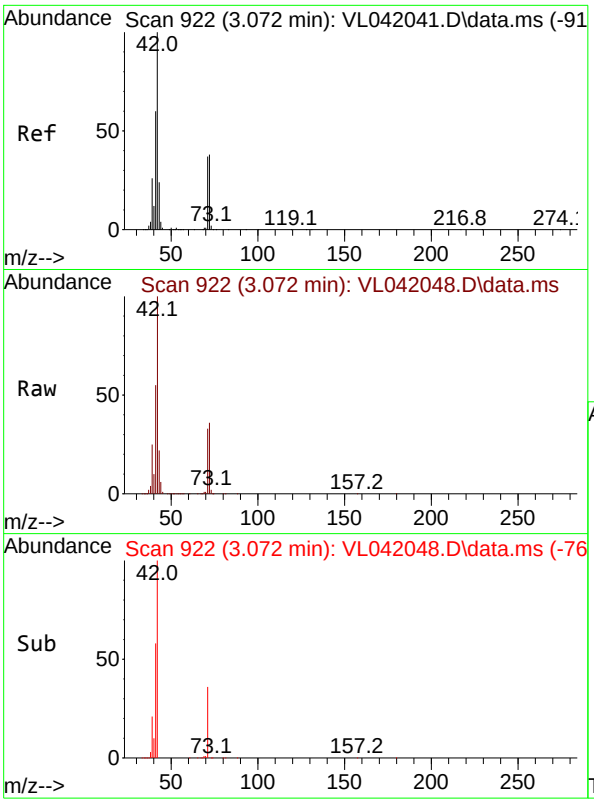


#40
1,4-Dioxane
Concen: 8.817 ppbv
RT: 4.616 min Scan# 1399
Delta R.T. 0.006 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 88 Resp: 65010

Ion	Ratio	Lower	Upper
88	100		
58	76.5	62.6	94.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0

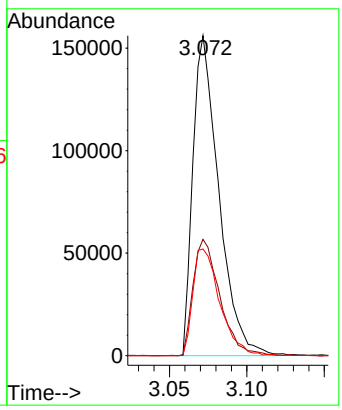




#41
Tetrahydrofuran
Concen: 9.696 ppbv
RT: 3.072 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 42 Resp: 18145

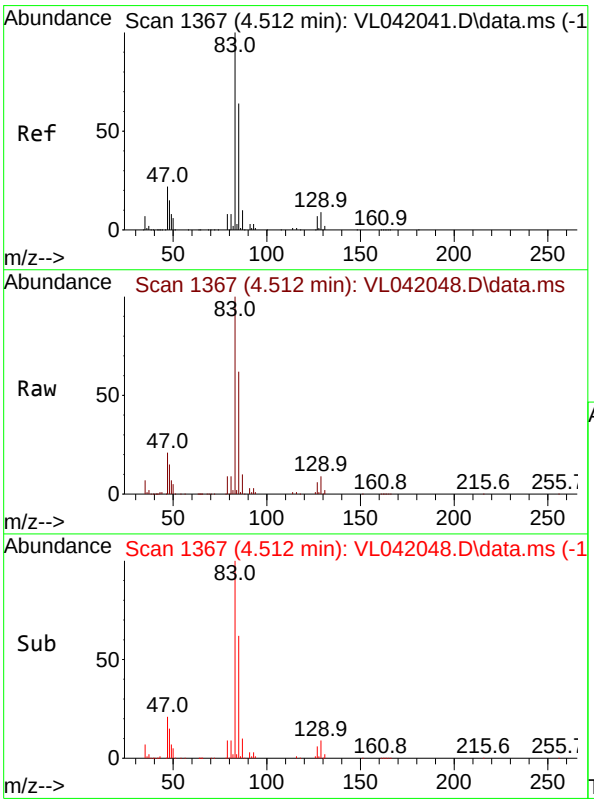
Ion	Ratio	Lower	Upper
42	100		
72	37.6	30.2	45.2
71	34.8	28.2	42.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

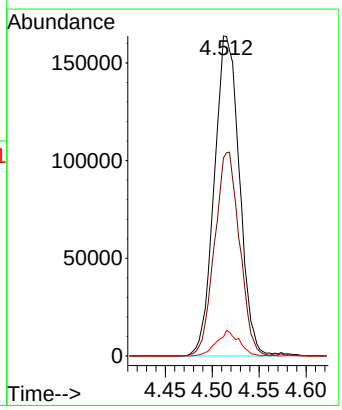
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

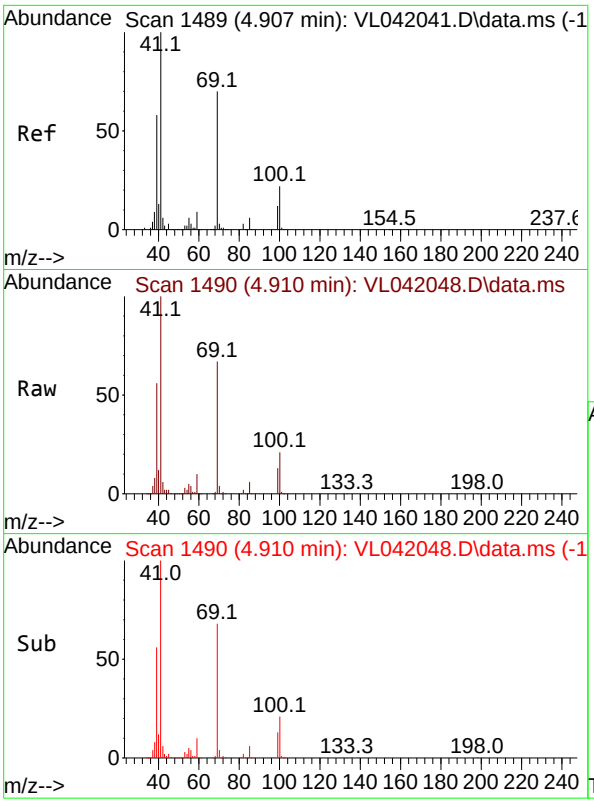


#42
Bromodichloromethane
Concen: 9.606 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 83 Resp: 305385

Ion	Ratio	Lower	Upper
83	100		
85	61.9	51.4	77.2
127	5.9	5.8	8.6

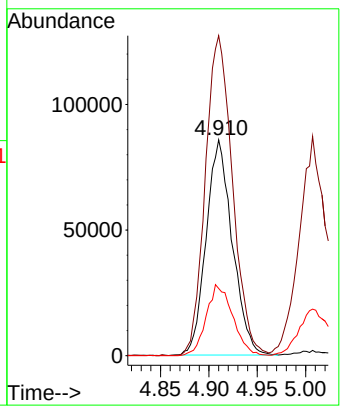




#43
Methyl Methacrylate
Concen: 9.685 ppbv
RT: 4.910 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 69 Resp: 160954

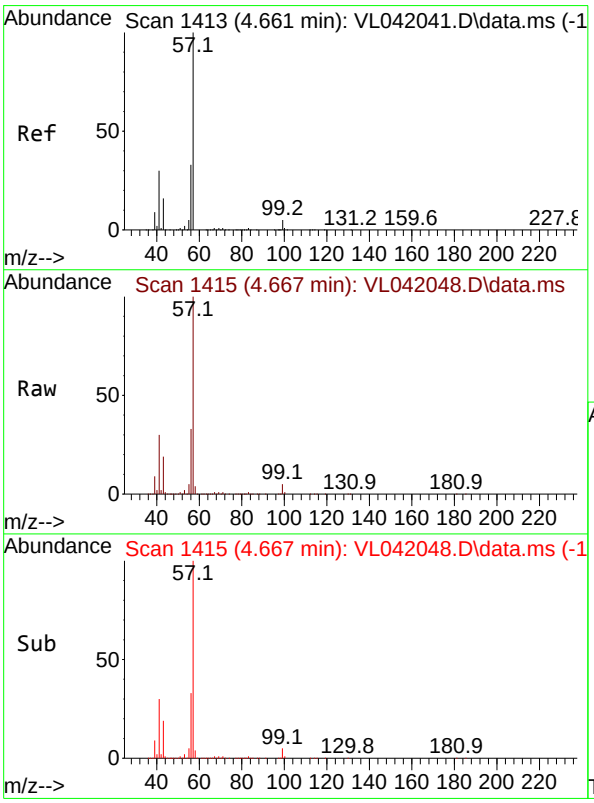
Ion	Ratio	Lower	Upper
69	100		
41	154.7	118.2	177.4
100	33.4	27.0	40.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

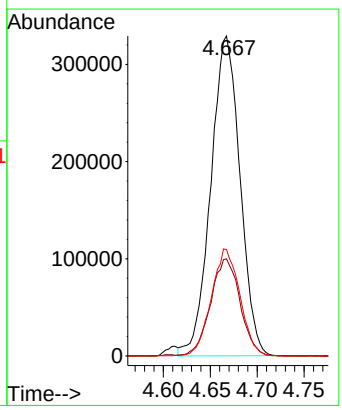
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

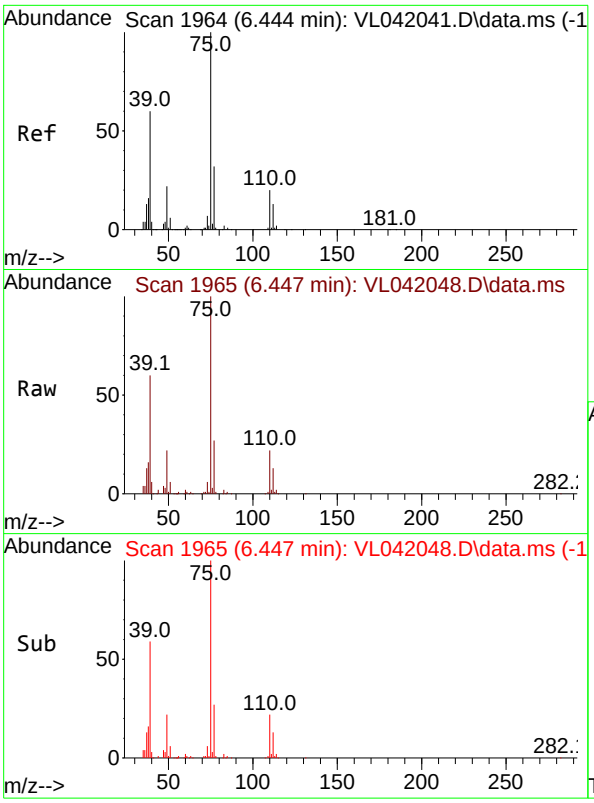


#44
2,2,4-Trimethylpentane
Concen: 9.480 ppbv
RT: 4.667 min Scan# 1415
Delta R.T. 0.006 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 57 Resp: 712051

Ion	Ratio	Lower	Upper
57	100		
41	31.0	24.4	36.6
56	32.7	26.5	39.7

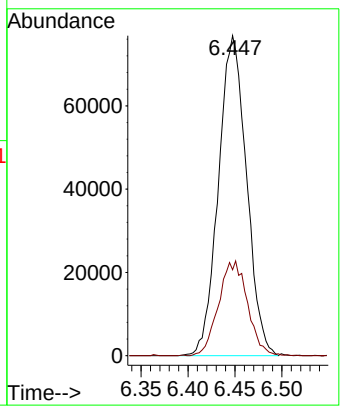




#45
t-1,3-Dichloropropene
Concen: 9.671 ppbv
RT: 6.447 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 75 Resp: 15968

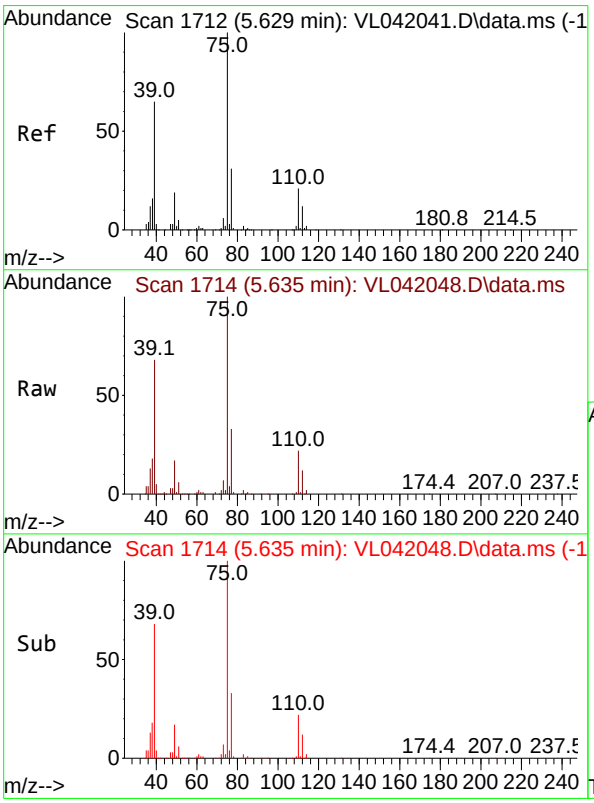
Ion	Ratio	Lower	Upper
75	100		
77	26.8	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

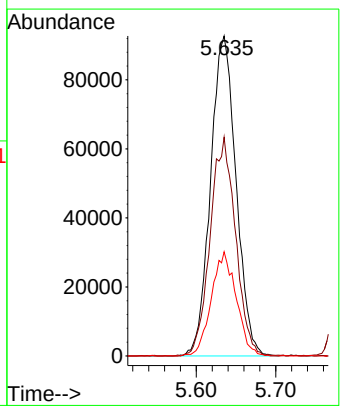
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

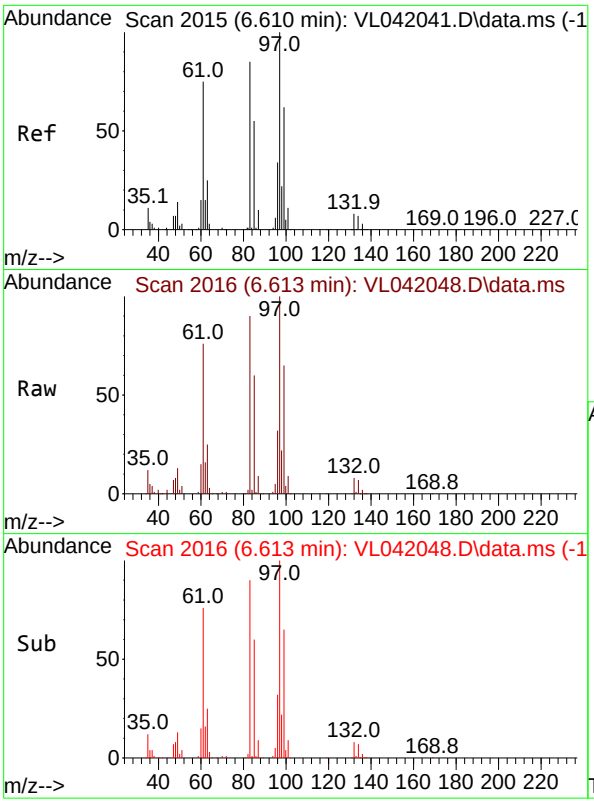


#46
cis-1,3-Dichloropropene
Concen: 9.680 ppbv
RT: 5.635 min Scan# 1714
Delta R.T. 0.006 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 75 Resp: 206836

Ion	Ratio	Lower	Upper
75	100		
39	68.1	51.9	77.9
77	32.6	24.9	37.3

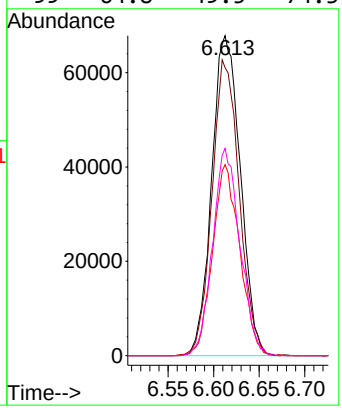




#47
1,1,2-Trichloroethane
Concen: 9.039 ppbv
RT: 6.613 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 97 Resp: 14822

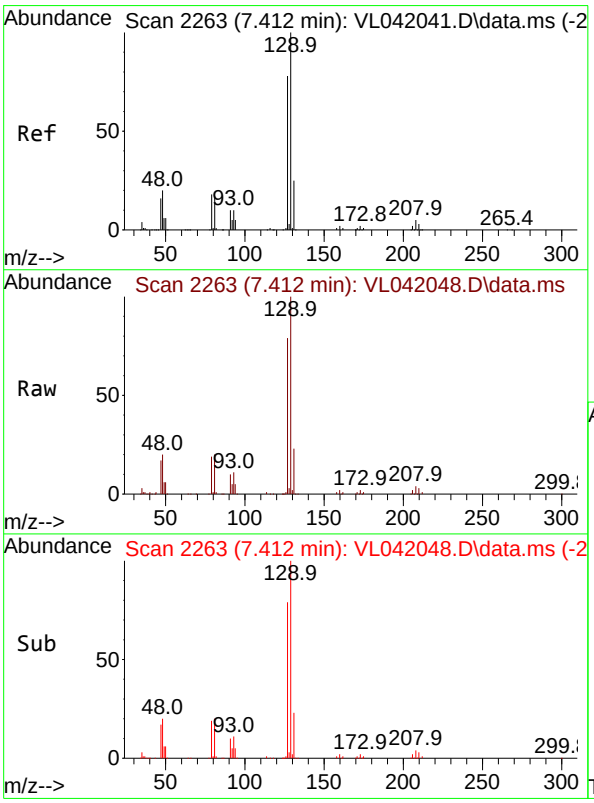
Ion	Ratio	Lower	Upper
97	100		
83	89.8	68.1	102.1
85	59.5	44.0	66.0
99	64.8	49.5	74.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

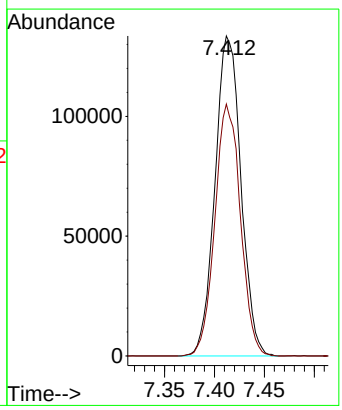
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

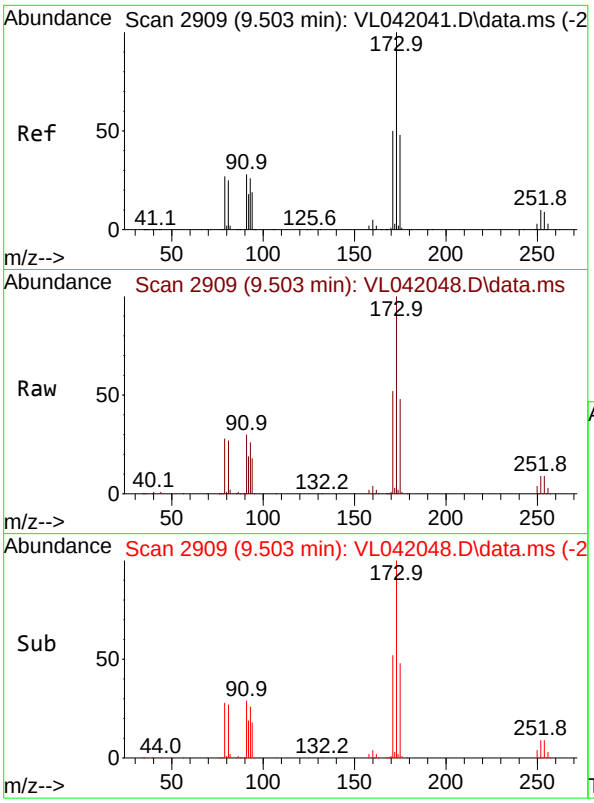


#48
Dibromochloromethane
Concen: 9.407 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:129 Resp: 241593

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.6	115.8

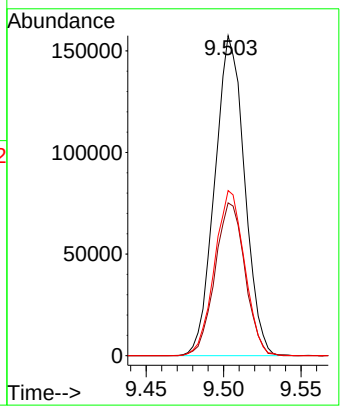




#49
Bromoform
Concen: 9.432 ppbv
RT: 9.503 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:173 Resp: 21037

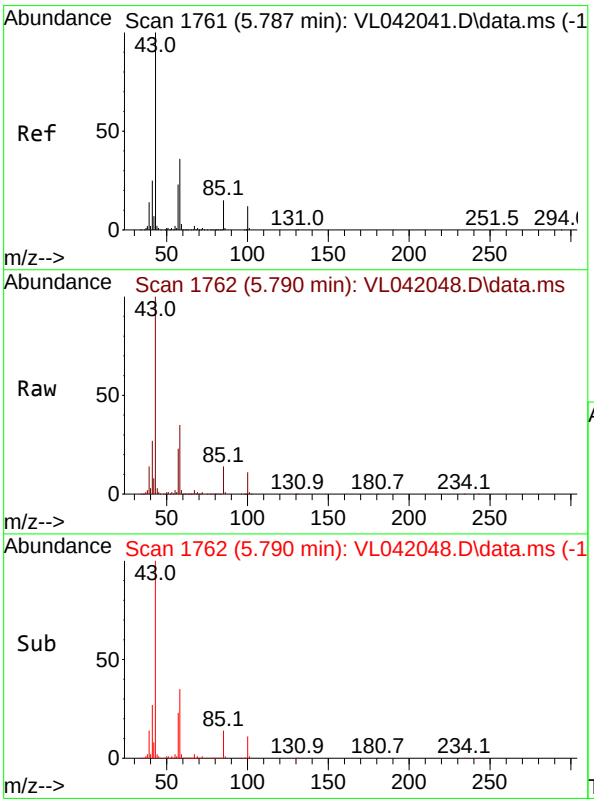
Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.3	57.5
171	52.0	40.2	60.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

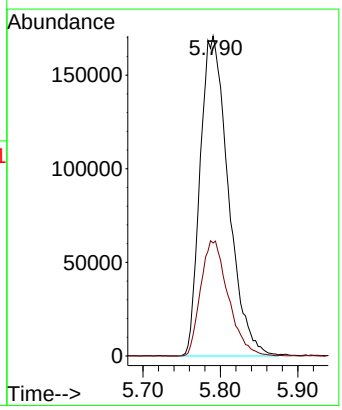
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

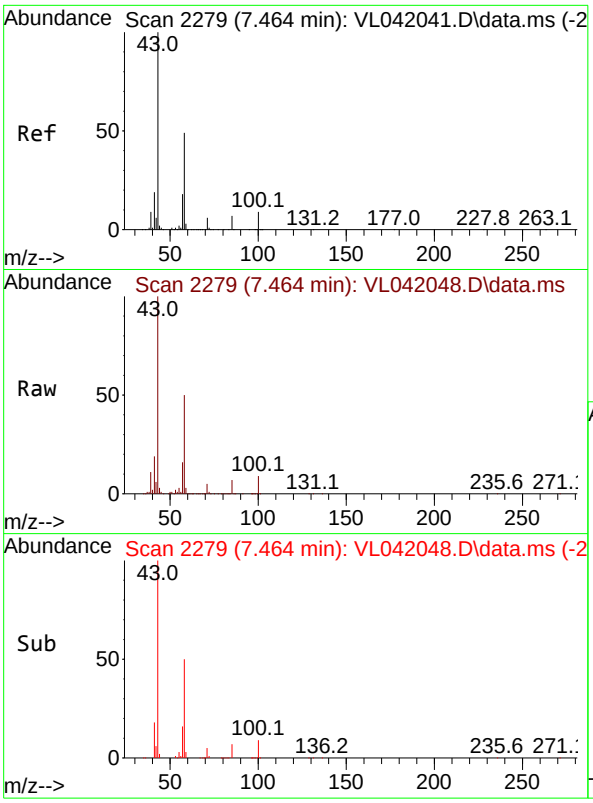


#50
4-Methyl-2-Pentanone
Concen: 10.526 ppbv
RT: 5.790 min Scan# 1762
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 43 Resp: 431123

Ion	Ratio	Lower	Upper
43	100		
58	35.4	29.3	43.9

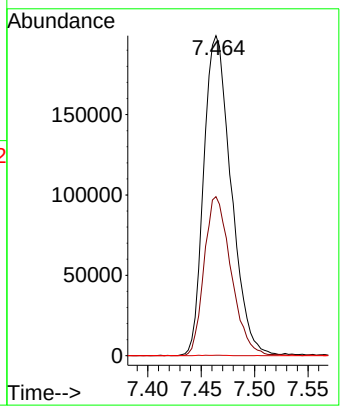




#51
2-Hexanone
Concen: 12.576 ppbv
RT: 7.464 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 43 Resp: 35451

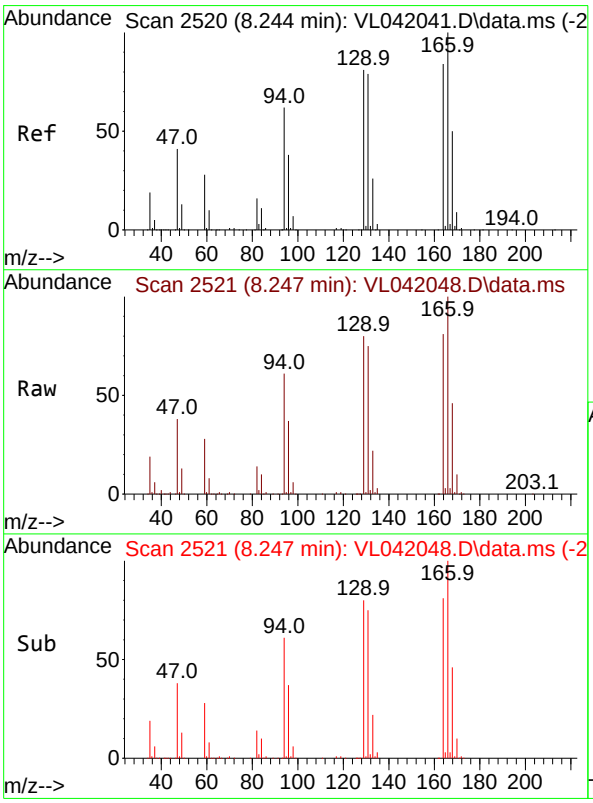
Ion	Ratio	Lower	Upper
43	100		
58	49.1	39.0	58.6
98	0.1	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

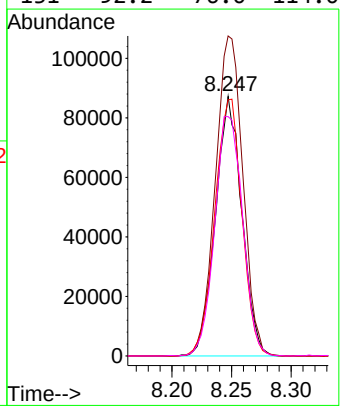
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

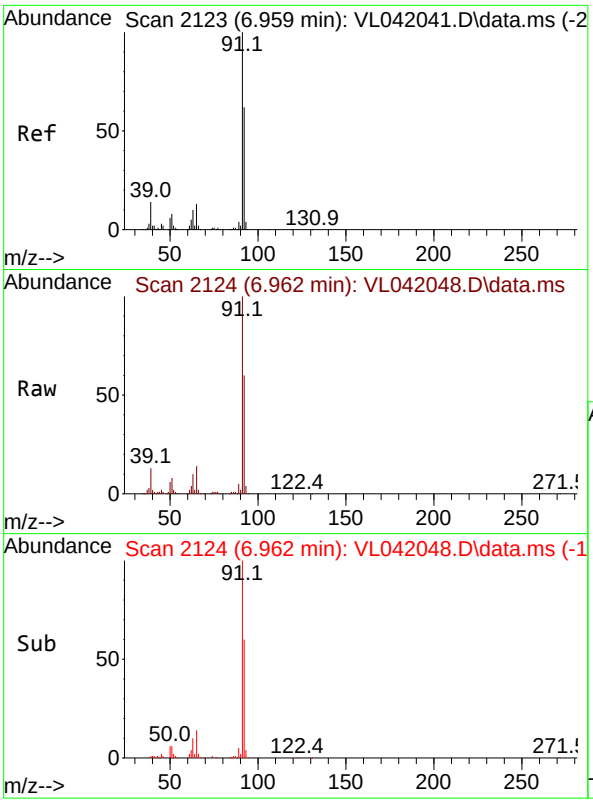


#52
Tetrachloroethene
Concen: 9.202 ppbv
RT: 8.247 min Scan# 2521
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:164 Resp: 134062

Ion	Ratio	Lower	Upper
164	100		
166	123.3	95.7	143.5
129	98.7	77.1	115.7
131	92.2	76.0	114.0

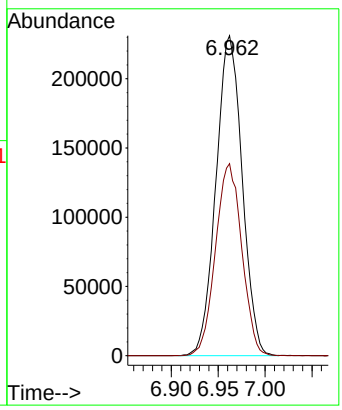




#53
Toluene
Concen: 9.430 ppbv
RT: 6.962 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 44849

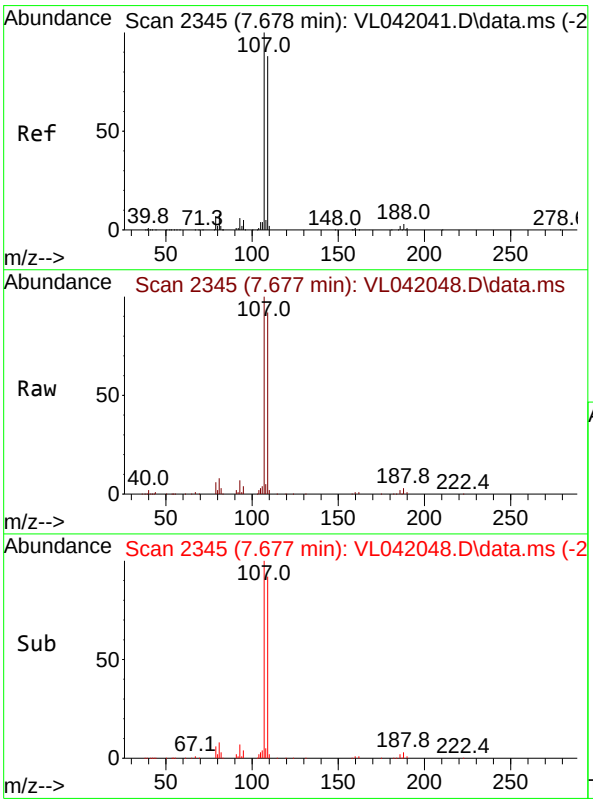
Ion	Ratio	Lower	Upper
91	100		
92	60.1	49.0	73.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

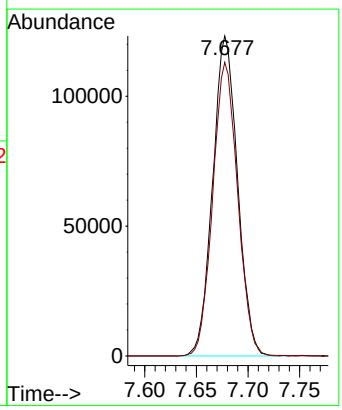
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

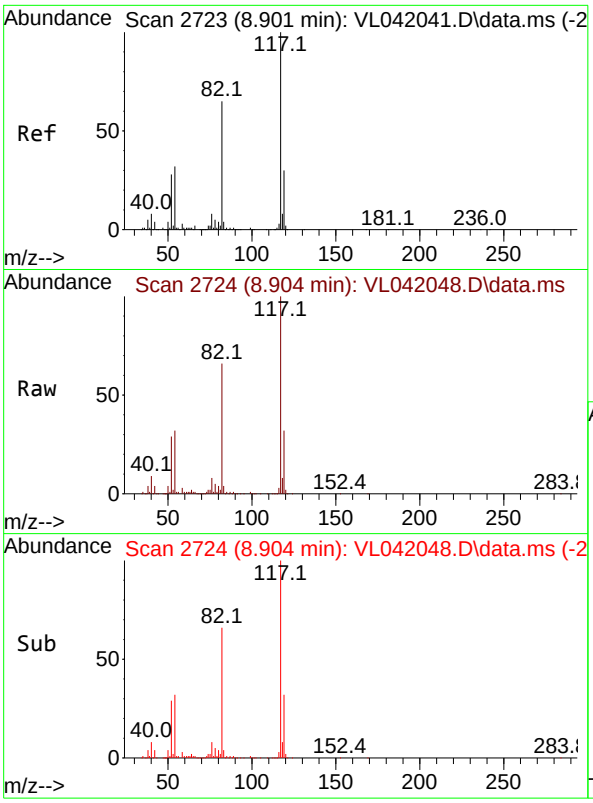


#54
1,2-Dibromoethane
Concen: 9.307 ppbv
RT: 7.677 min Scan# 2345
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:107 Resp: 206335

Ion	Ratio	Lower	Upper
107	100		
109	91.7	70.2	105.4

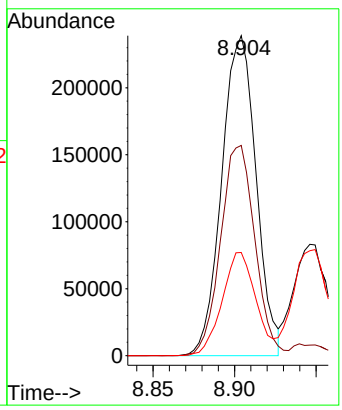




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:117 Resp: 35026

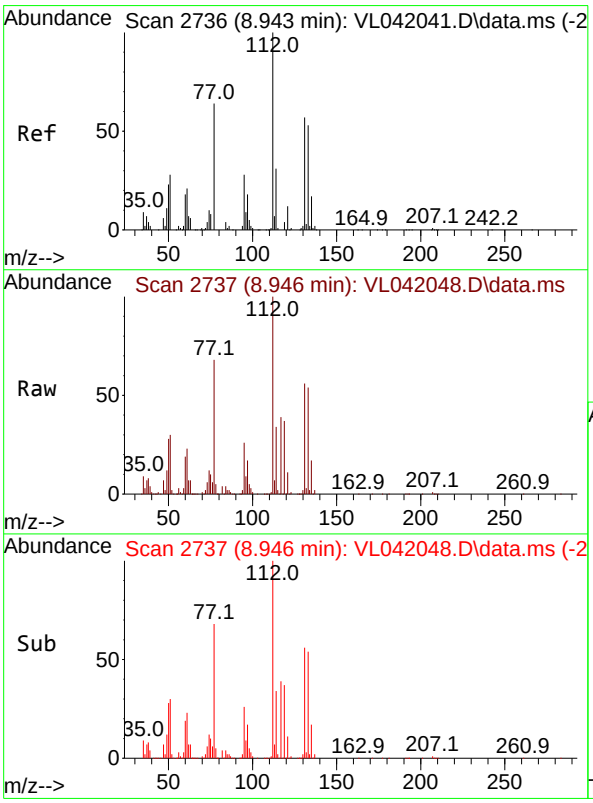
Ion	Ratio	Lower	Upper
117	100		
82	68.9	55.0	82.6
119	31.5	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

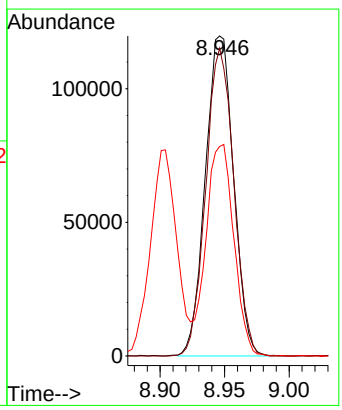
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

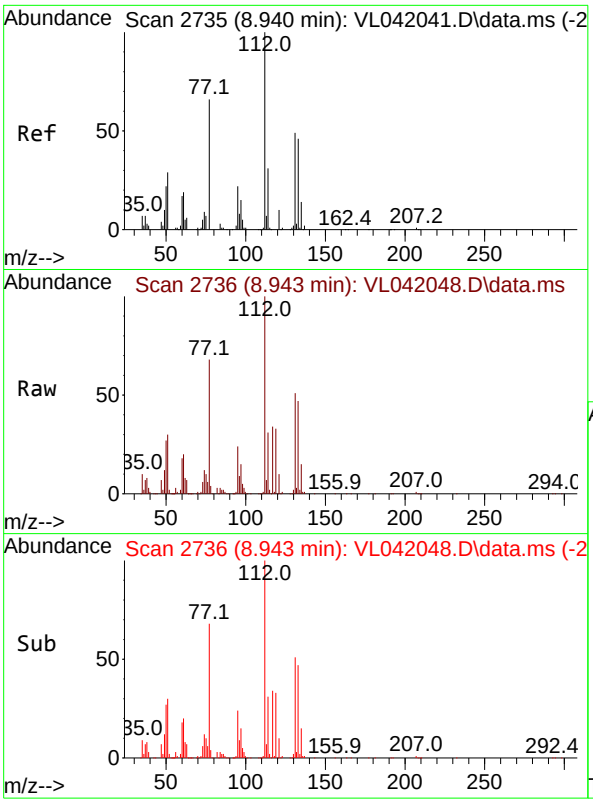


#56
1,1,1,2-Tetrachloroethane
Concen: 9.234 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:131 Resp: 182800

Ion	Ratio	Lower	Upper
131	100		
133	95.0	75.8	113.8
119	66.4	52.1	78.1

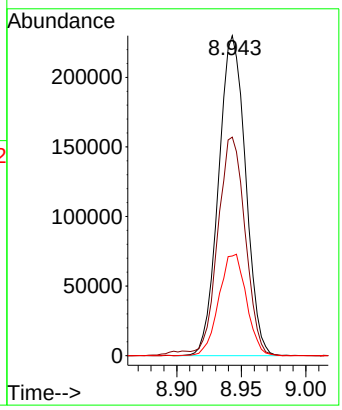




#57
Chlorobenzene
Concen: 9.216 ppbv
RT: 8.943 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:112 Resp: 33469

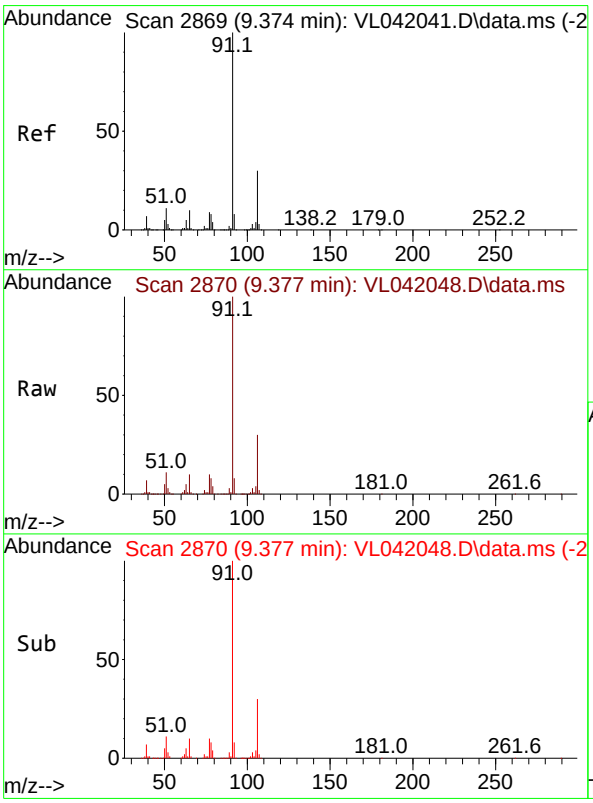
Ion	Ratio	Lower	Upper
112	100		
77	68.0	53.4	80.2
114	31.1	28.3	34.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

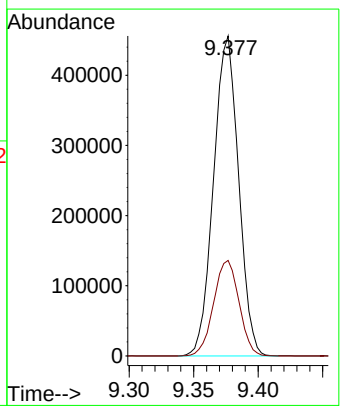
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

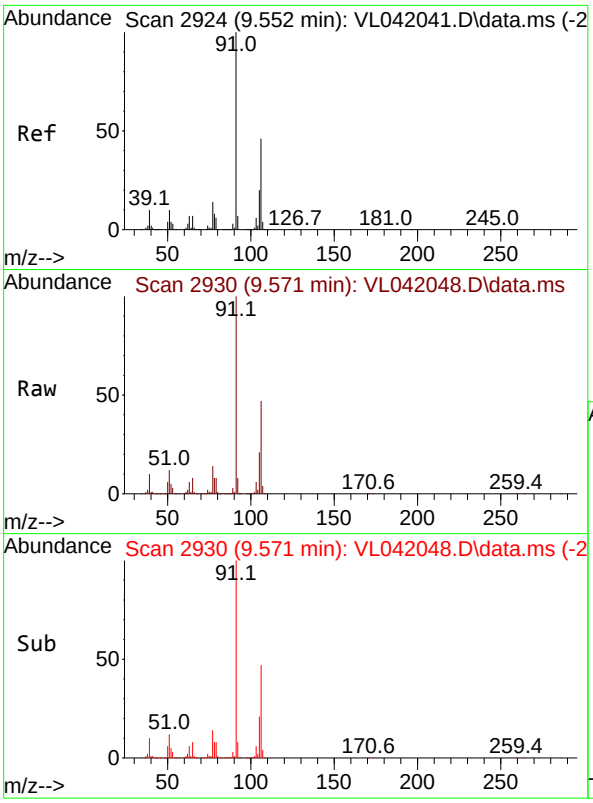


#58
Ethyl Benzene
Concen: 9.513 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 613622

Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.2	36.2

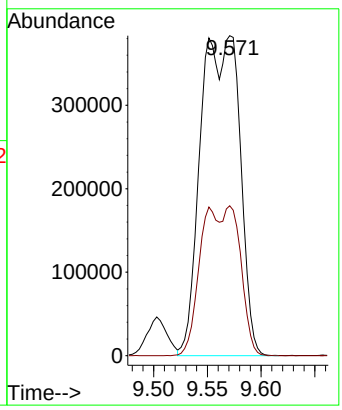




#59
m/p-Xylene
Concen: 19.041 ppbv m
RT: 9.571 min Scan# 2
Delta R.T. 0.019 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 97742

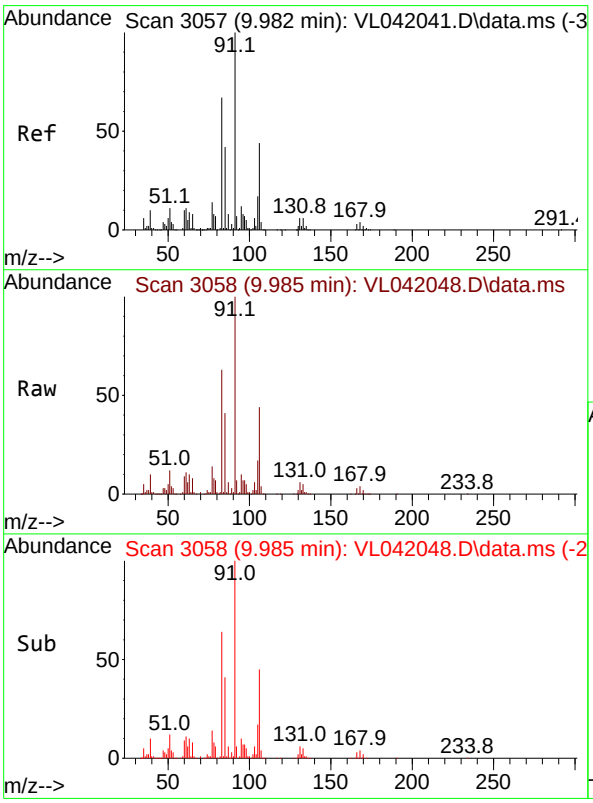
Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

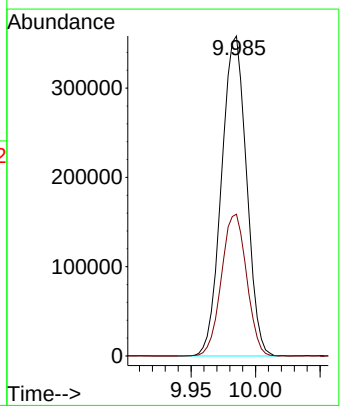
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

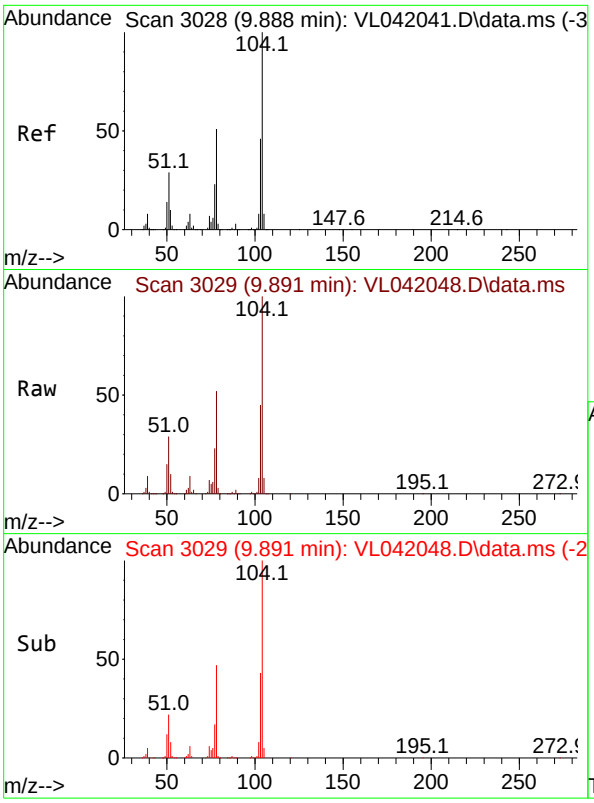


#60
o-Xylene
Concen: 9.334 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 481683

Ion	Ratio	Lower	Upper
91	100		
106	44.7	22.3	66.8

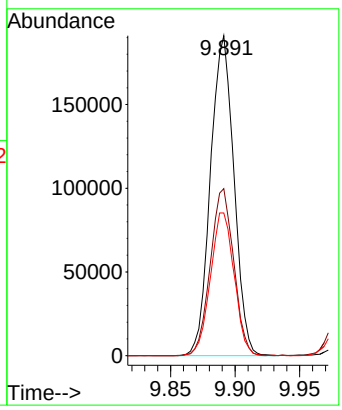




#61
Styrene
Concen: 9.959 ppbv
RT: 9.891 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:104 Resp: 24161

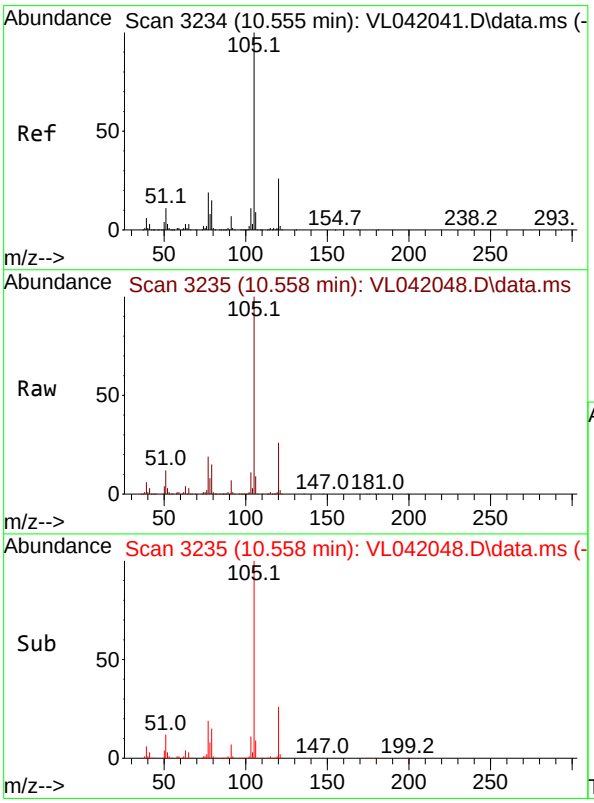
Ion	Ratio	Lower	Upper
104	100		
78	51.9	41.0	61.4
103	45.3	37.0	55.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

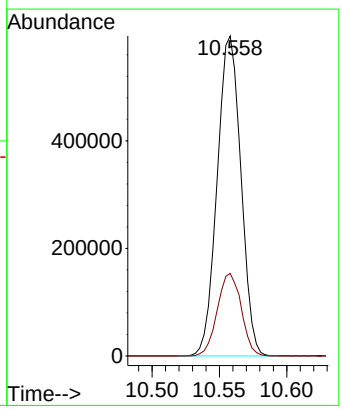
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

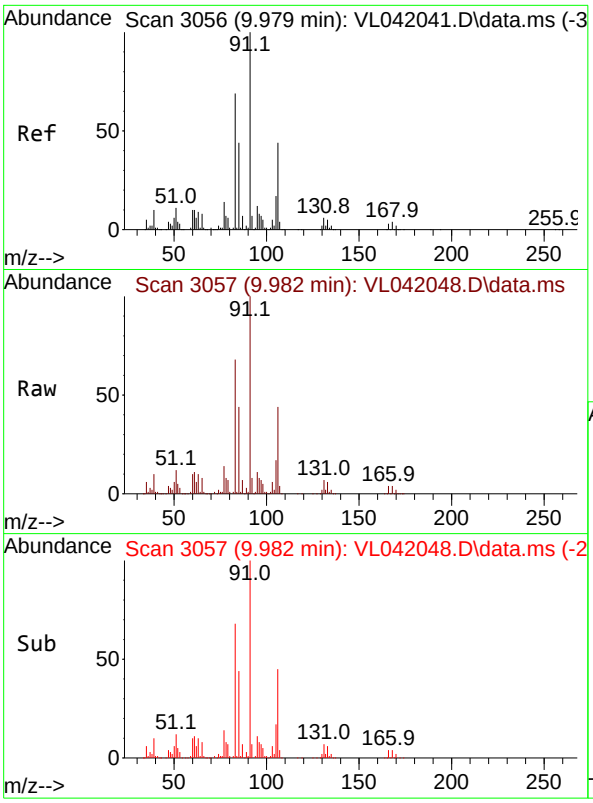


#62
Isopropylbenzene
Concen: 9.437 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:105 Resp: 729350

Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.7	31.1





#63
1,1,2,2-Tetrachloroethane
Concen: 9.204 ppbv
RT: 9.982 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

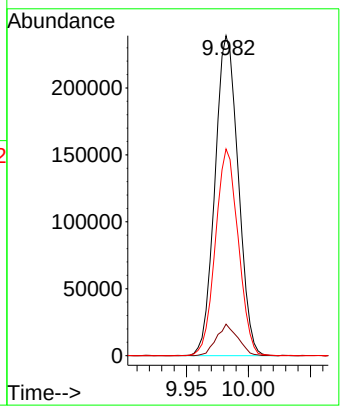
Tgt Ion: 83 Resp: 31279

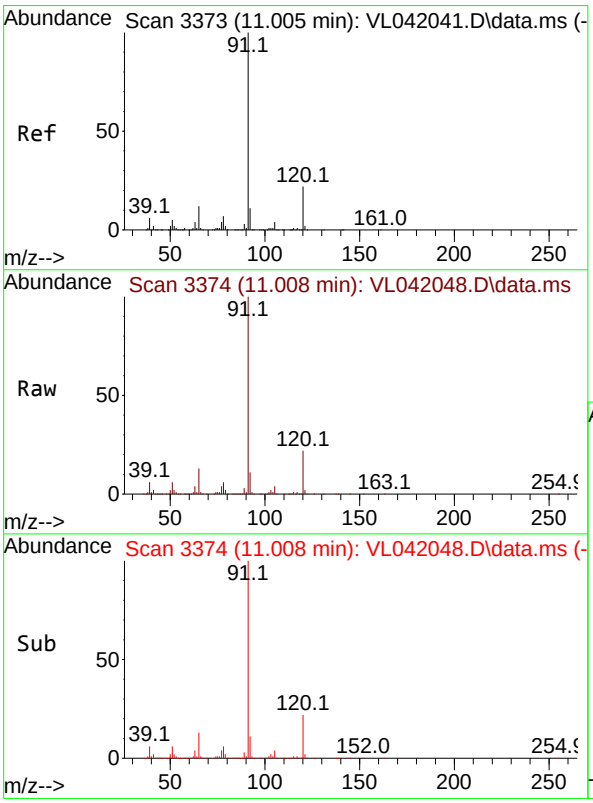
Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.7
85	63.5	32.1	96.3

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

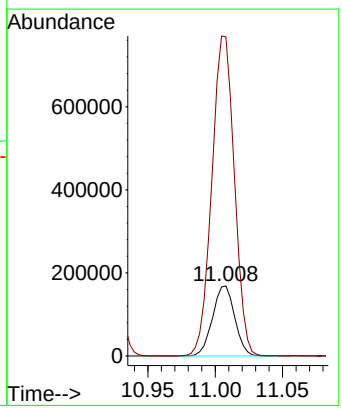


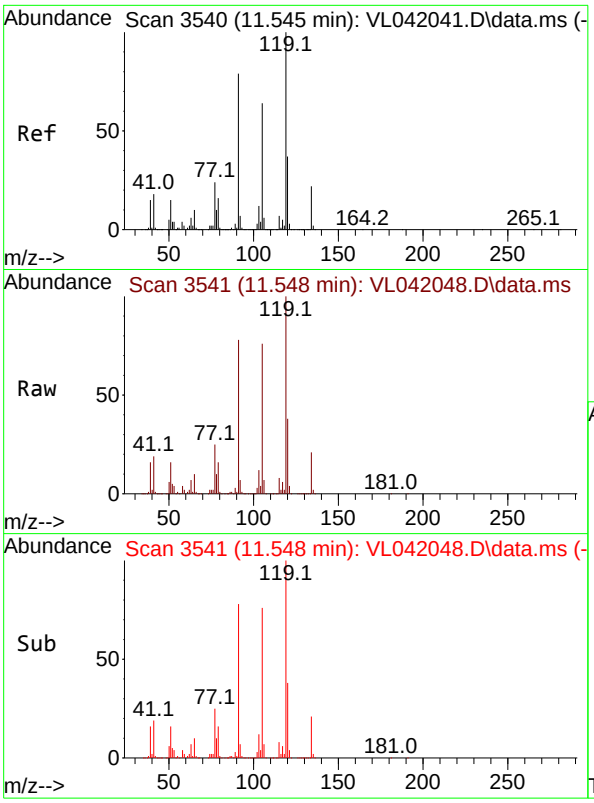


#64
n-propylbenzene
Concen: 9.506 ppbv
RT: 11.008 min Scan# 3374
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:120 Resp: 192704

Ion	Ratio	Lower	Upper
120	100		
91	466.1	370.6	556.0

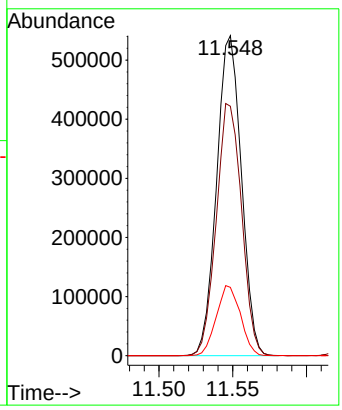




#65
tert-Butylbenzene
Concen: 8.988 ppbv
RT: 11.548 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:119 Resp: 63220

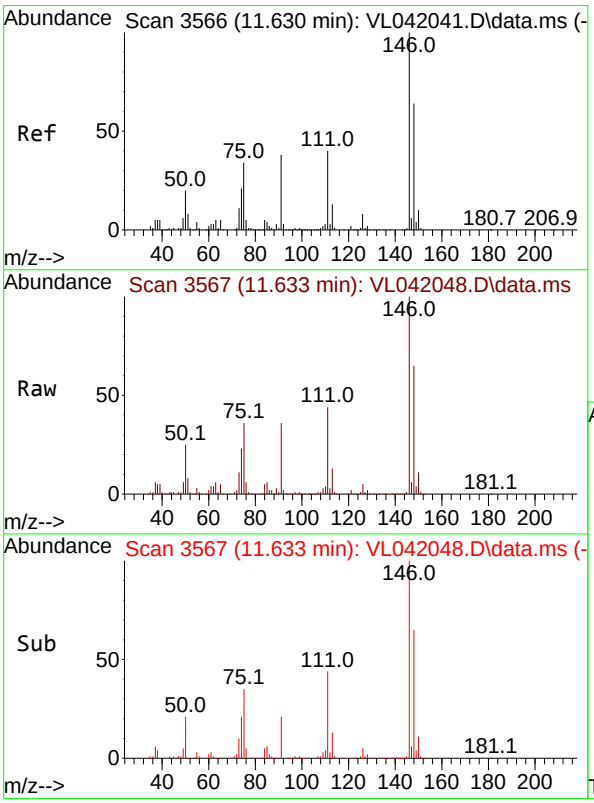
Ion	Ratio	Lower	Upper
119	100		
91	80.5	64.2	96.2
134	21.4	17.4	26.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

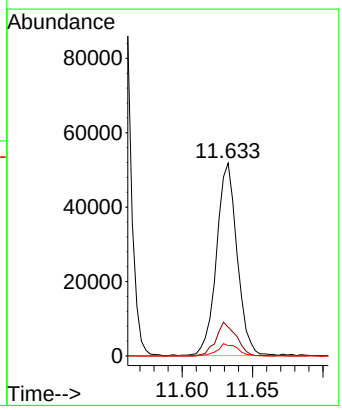
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

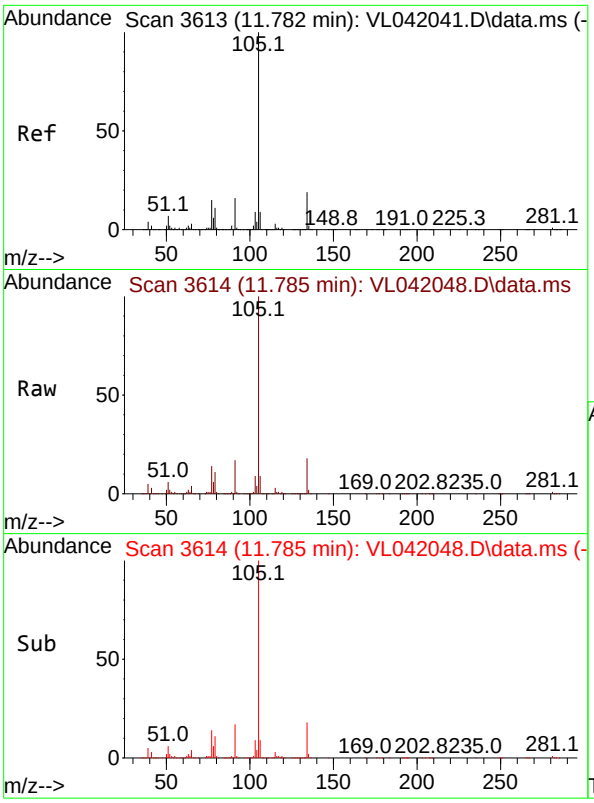


#66
Benzyl Chloride
Concen: 9.808 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 52645

Ion	Ratio	Lower	Upper
91	100		
126	17.4	14.5	21.7
128	6.2	5.4	8.2

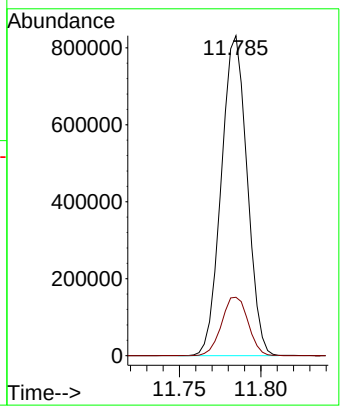




#67
sec-Butylbenzene
Concen: 9.090 ppbv
RT: 11.785 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:105 Resp: 91440

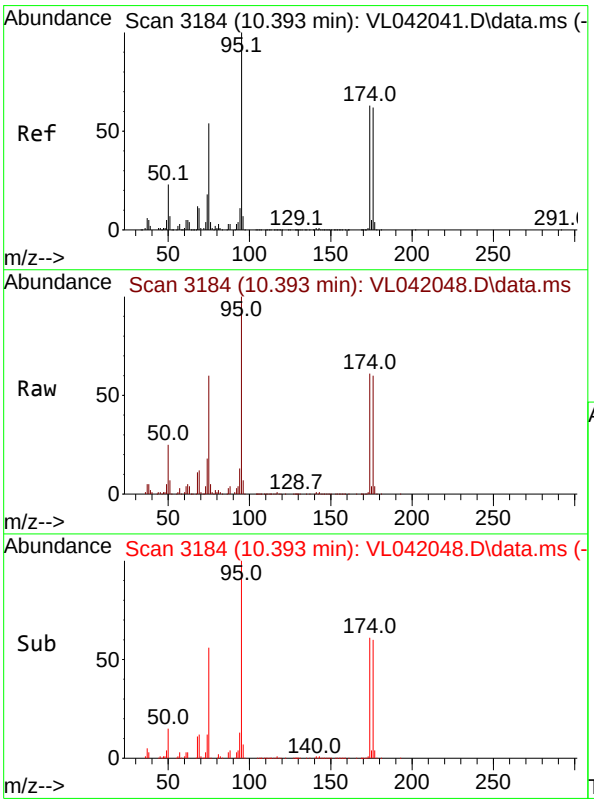
Ion	Ratio	Lower	Upper
105	100		
134	18.9	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

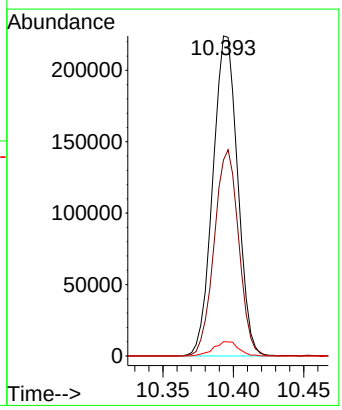
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

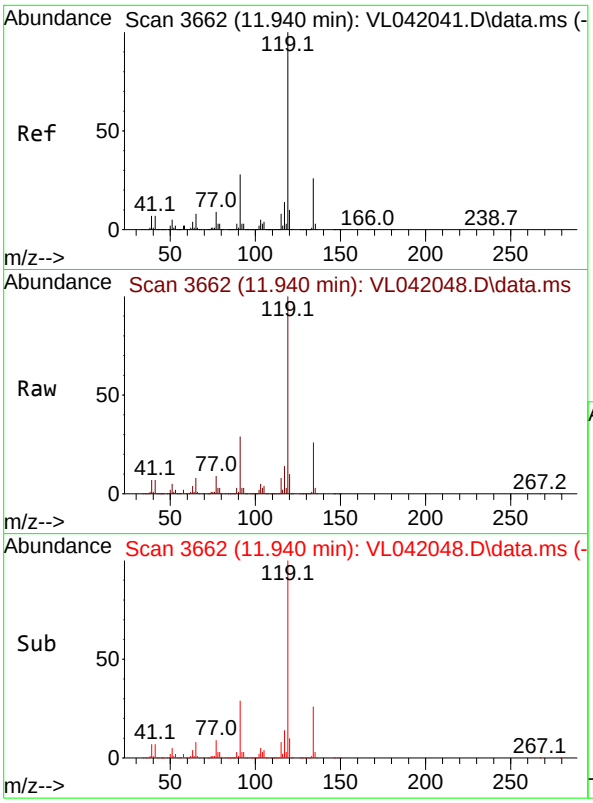


#68
1-Bromo-4-Fluorobenzene
Concen: 10.188 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 95 Resp: 274527

Ion	Ratio	Lower	Upper
95	100		
174	63.6	51.8	77.6
175	4.5	3.9	5.9

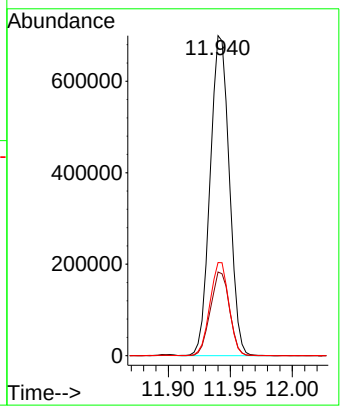




#69
p-Isopropyltoluene
Concen: 9.418 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:119 Resp: 75376

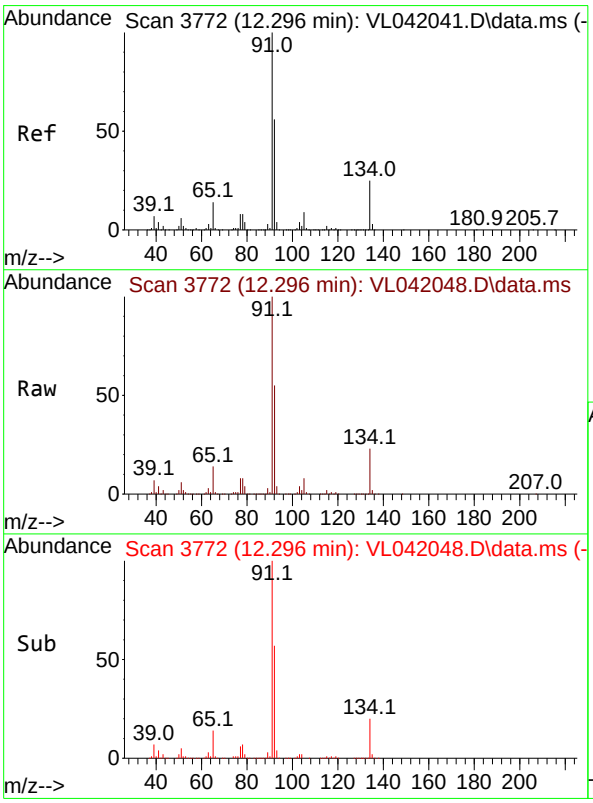
Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.9	31.3
91	28.9	23.1	34.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

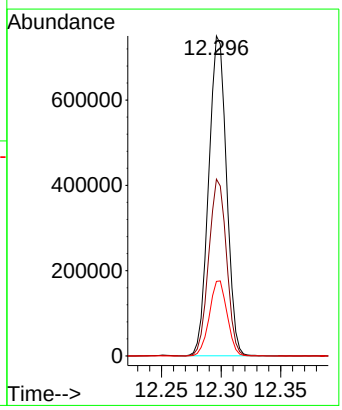
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

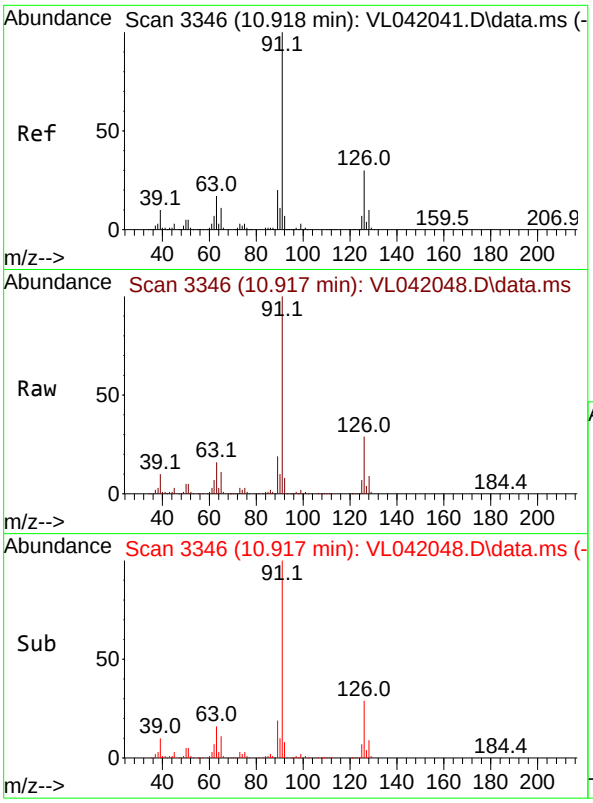


#70
n-Butylbenzene
Concen: 9.560 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 781034

Ion	Ratio	Lower	Upper
91	100		
92	55.4	44.7	67.1
134	23.4	18.9	28.3

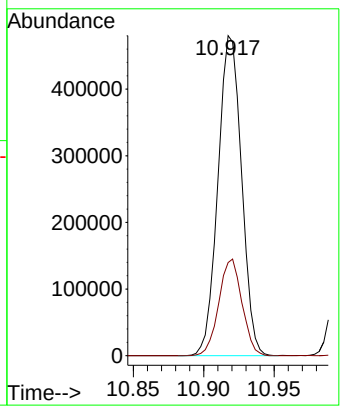




#71
2-Chlorotoluene
Concen: 9.399 ppbv
RT: 10.917 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 55999

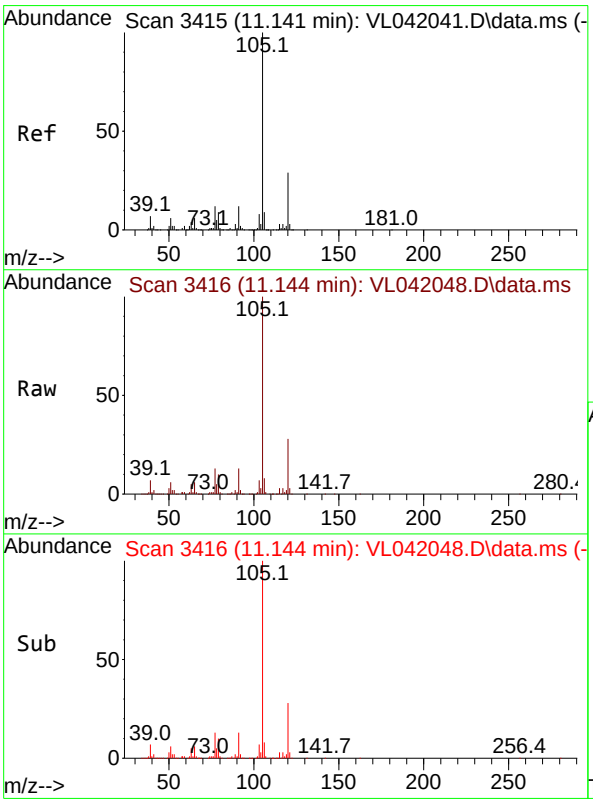
Ion	Ratio	Lower	Upper
91	100		
126	29.6	11.9	47.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

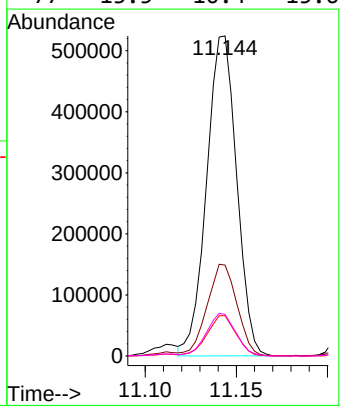
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

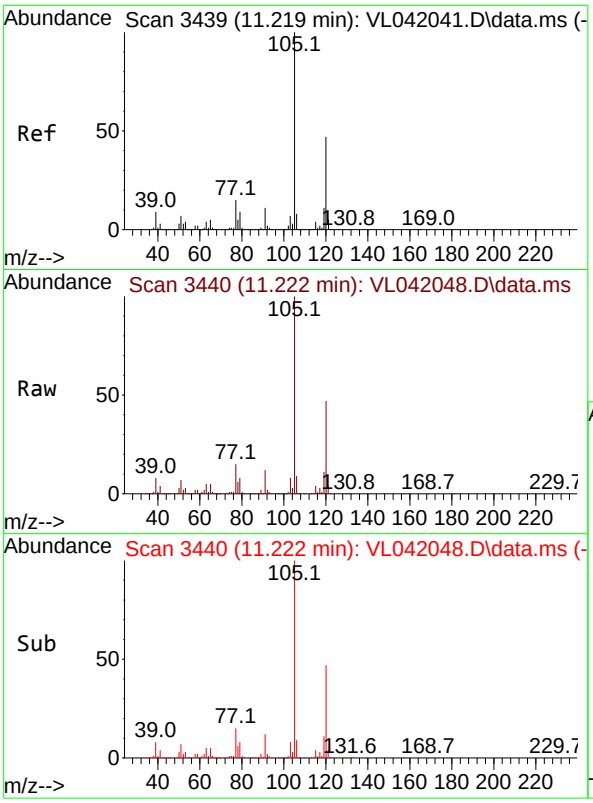


#72
4-Ethyltoluene
Concen: 9.557 ppbv
RT: 11.144 min Scan# 3416
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:105 Resp: 602156

Ion	Ratio	Lower	Upper
105	100		
120	29.5	24.1	36.1
91	12.7	10.2	15.4
77	13.5	10.4	15.6

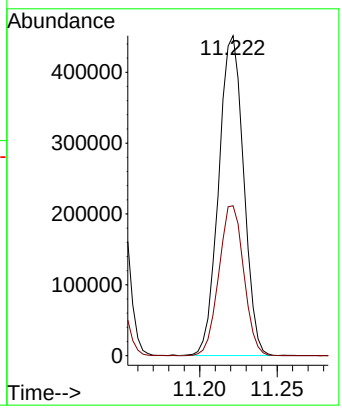




#73
1,3,5-Trimethylbenzene
Concen: 9.248 ppbv
RT: 11.222 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:105 Resp: 50545

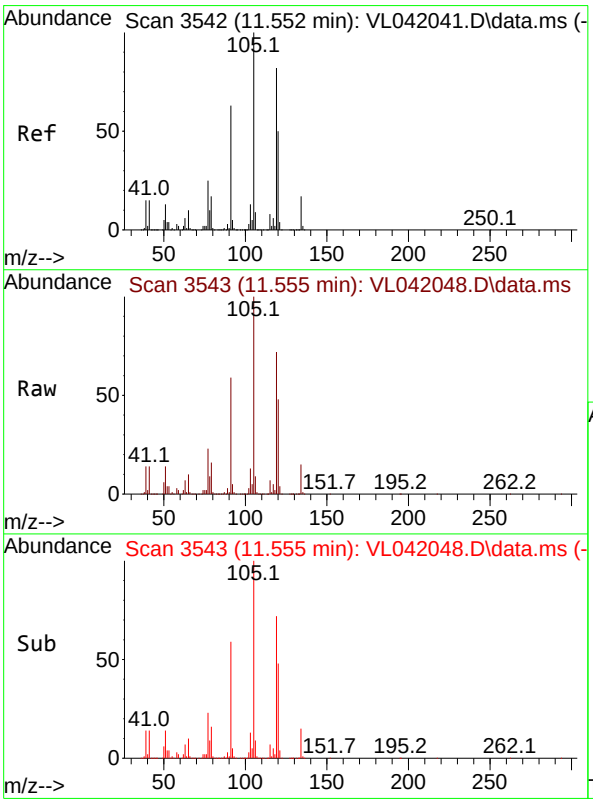
Ion	Ratio	Lower	Upper
105	100		
120	46.9	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

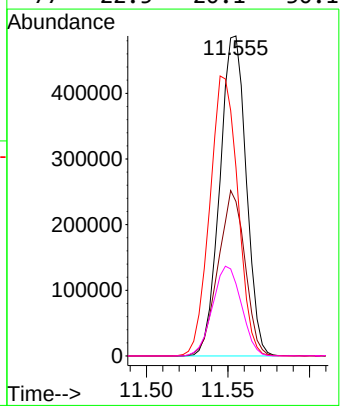
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

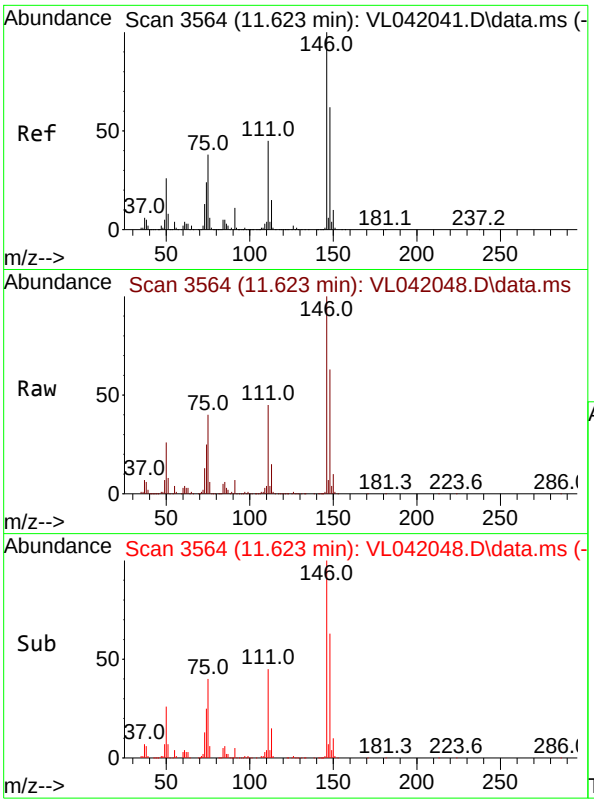


#74
1,2,4-Trimethylbenzene
Concen: 8.891 ppbv
RT: 11.555 min Scan# 3543
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:105 Resp: 547176

Ion	Ratio	Lower	Upper
105	100		
120	48.2	40.2	60.2
91	58.9	51.4	77.2
77	22.5	20.1	30.1

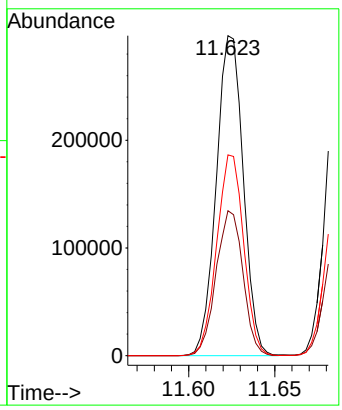




#75
1,3-Dichlorobenzene
Concen: 9.161 ppbv
RT: 11.623 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:146 Resp: 32449

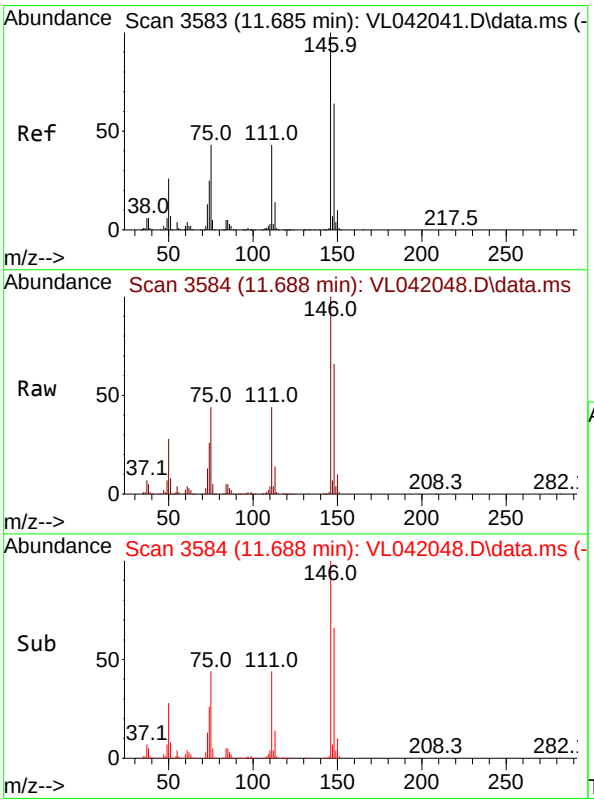
Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.4	67.2
148	62.7	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

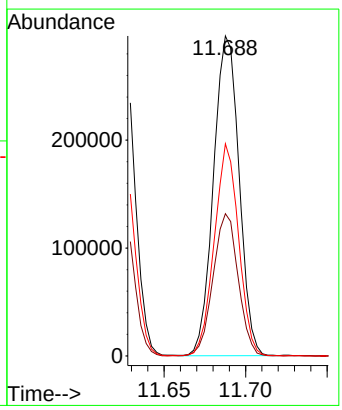
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

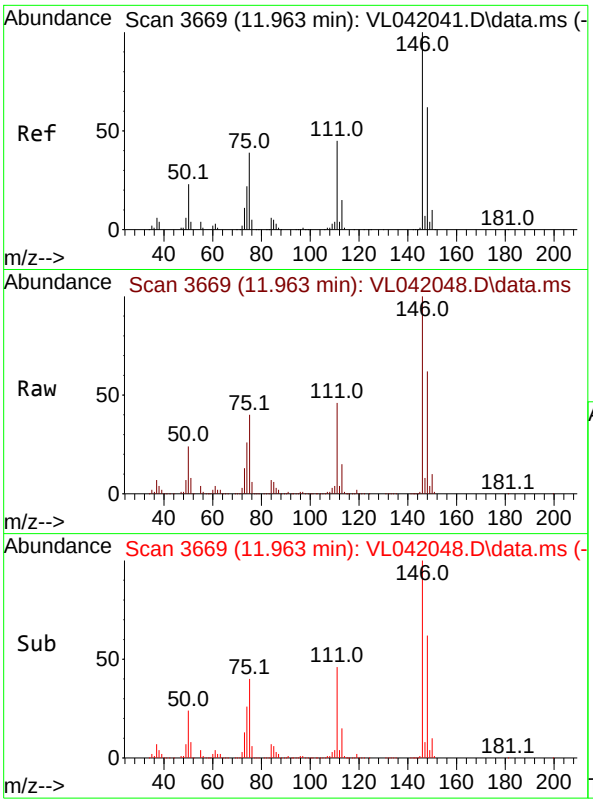


#76
1,4-Dichlorobenzene
Concen: 9.176 ppbv
RT: 11.688 min Scan# 3584
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:146 Resp: 322712

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.5	64.5
148	63.2	31.6	95.0

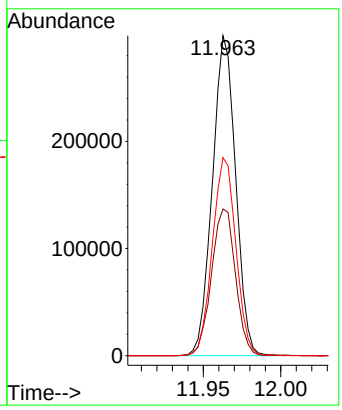




#77
1,2-Dichlorobenzene
Concen: 9.081 ppbv
RT: 11.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:146 Resp: 31215

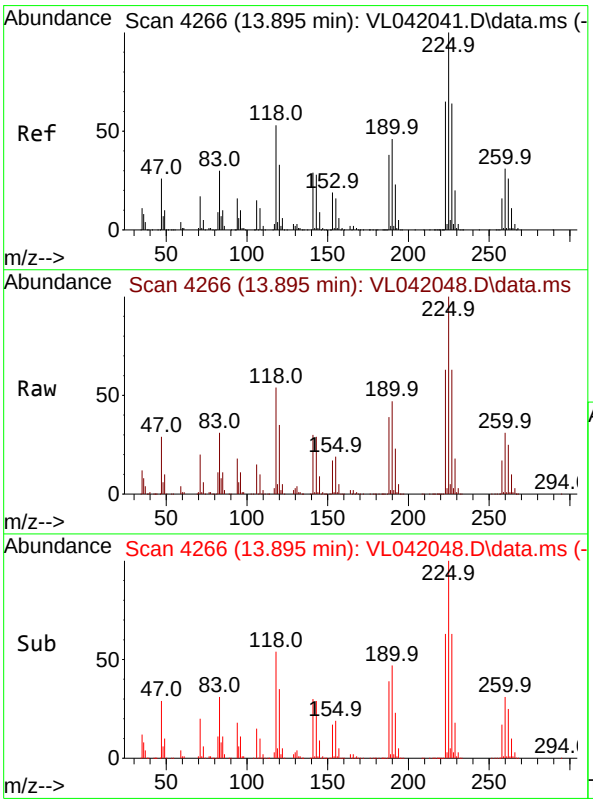
Ion	Ratio	Lower	Upper
146	100		
111	47.4	23.2	69.6
148	62.6	31.4	94.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

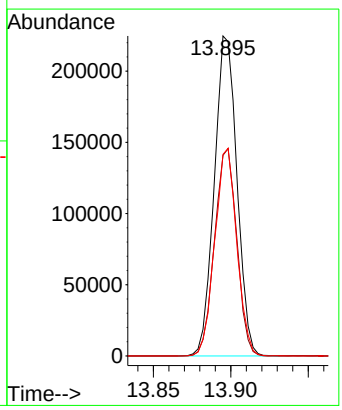
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

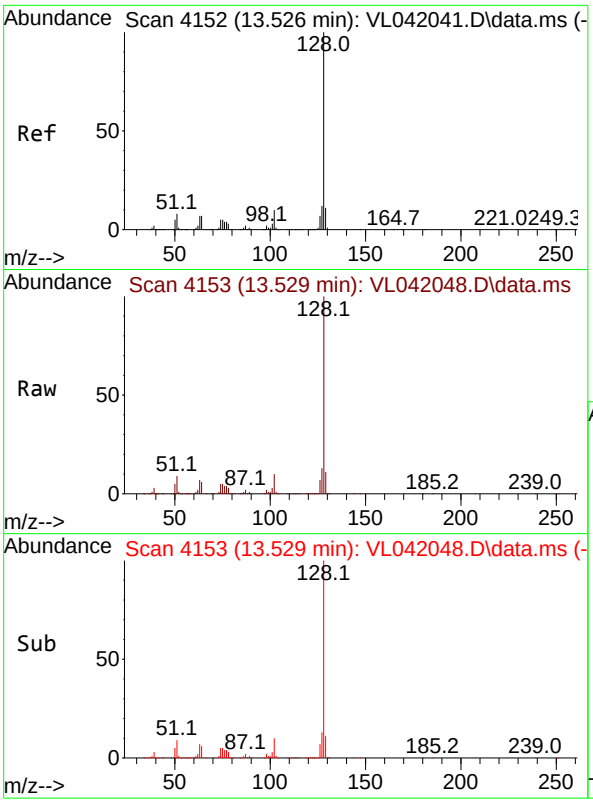


#78
Hexachloro-1,3-Butadiene
Concen: 8.543 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:225 Resp: 228480

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.2	75.2
227	63.1	50.8	76.2

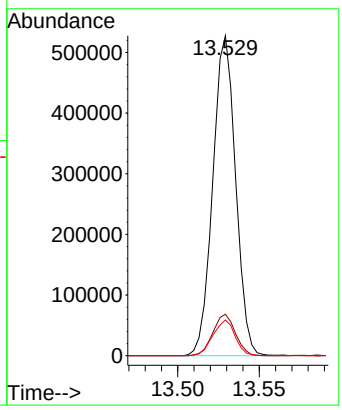




#79
Naphthalene
Concen: 12.160 ppbv
RT: 13.529 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:128 Resp: 51314

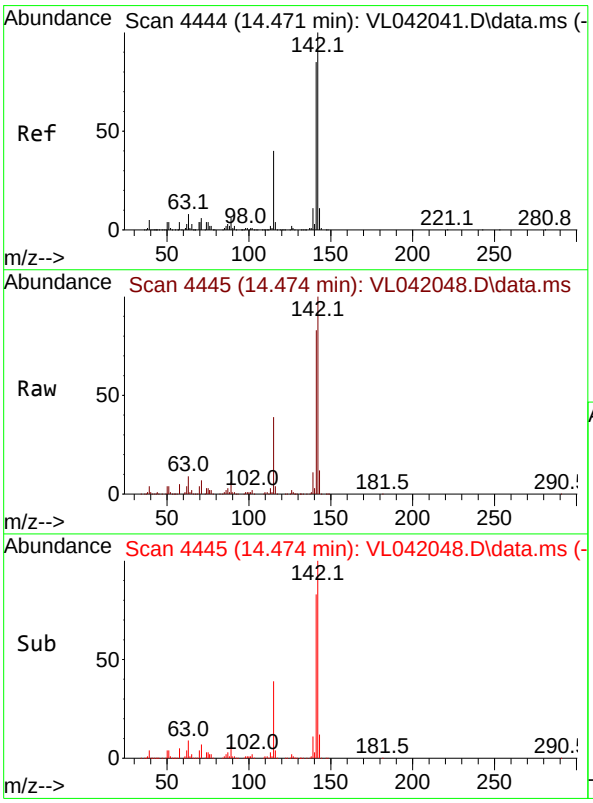
Ion	Ratio	Lower	Upper
128	100		
127	13.0	9.8	14.6
129	11.1	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

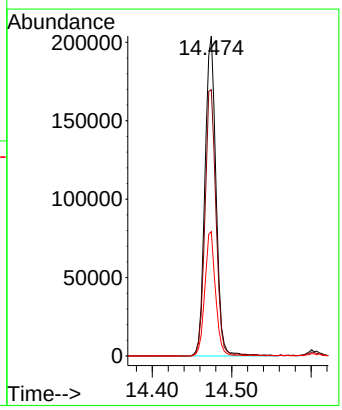
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

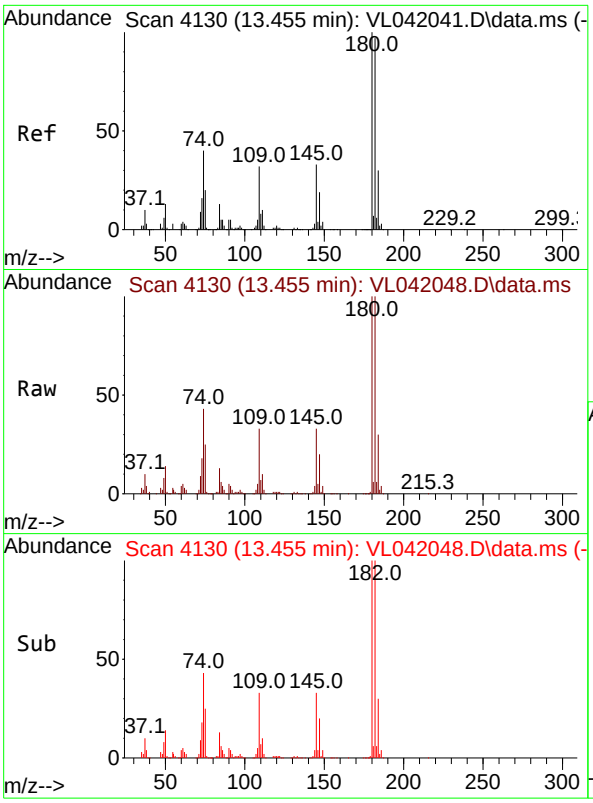


#80
Naphthalene,2-methyl-
Concen: 17.152 ppbv
RT: 14.474 min Scan# 4445
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:142 Resp: 198077

Ion	Ratio	Lower	Upper
142	100		
141	83.6	65.8	98.6
115	38.2	29.5	44.3

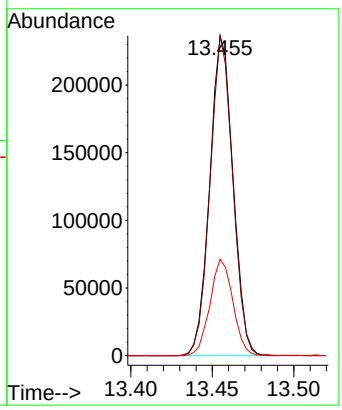




#81
1,2,4-Trichlorobenzene
Concen: 9.965 ppbv
RT: 13.455 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:180 Resp: 23435

Ion	Ratio	Lower	Upper
180	100		
182	97.6	75.1	112.7
184	29.7	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	1.040	0.999	3.9	104	0.00
3		Chlorodifluoromethane	1.453	1.382	4.9	104	0.00
4		Chloromethane	0.385	0.344	10.6	99	0.00
5	T	Vinyl Chloride	0.364	0.332	8.8	97	0.00
6	T	Bromomethane	0.173	0.160	7.5	98	0.00
7		Chloroethane	0.148	0.140	5.4	102	0.00
8	T	Dichlorotetrafluoroethane	0.855	0.800	6.4	101	0.00
9	T	Propene	0.592	0.572	3.4	108	0.00
10	T	Heptane	1.844	1.694	8.1	100	0.00
11	T	Trichlorofluoromethane	1.042	0.987	5.3	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	0.831	0.724	12.9	102	0.00
13		Ethanol	0.038	0.017#	55.3#	83	0.00
14	T	Bromoethene	0.293	0.274	6.5	103	0.00
15	T	Acetone	0.883	0.747	15.4	103	0.00
16	T	1,3-Butadiene	0.411	0.388	5.6	107	0.00
17		tert-Butyl alcohol	1.105	0.970	12.2	101	0.00
18	T	1,1-Dichloroethene	0.376	0.327	13.0	101	0.00
19	T	Isopropyl Alcohol	0.507	0.438	13.6	103	0.00
20	T	Methylene Chloride	0.334	0.265	20.7	100	0.00
21	T	Allyl Chloride	0.638	0.571	10.5	105	0.00
22	T	trans-1,2-Dichloroethene	0.438	0.372	15.1	103	0.00
23	T	Vinyl Acetate	0.621	0.589	5.2	112	0.00
24	T	1,1-Dichloroethane	0.815	0.710	12.9	105	0.00
25	T	Ethyl Acetate	3.535	3.355	5.1	104	0.00
26	T	Hexane	1.429	1.315	8.0	101	0.00
27	T	Carbon Disulfide	0.969	0.870	10.2	100	0.00
28	T	Methyl tert-Butyl Ether	0.711	0.595	16.3	112	0.00
29	T	Chloroform	1.923	1.770	8.0	101	0.00
30	T	Cyclohexane	1.160	1.063	8.4	97	0.00
31	T	cis-1,2-Dichloroethene	1.353	1.256	7.2	100	0.00
32	T	1,1,1-Trichloroethane	1.866	1.753	6.1	98	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
34	T	2-Butanone	0.779	0.758	2.7	105	0.00
35	T	Carbon Tetrachloride	0.690	0.680	1.4	100	0.00
36	T	Benzene	1.047	0.983	6.1	98	0.00
37	T	1,2-Dichloroethane	0.580	0.551	5.0	102	0.00
38	T	Trichloroethene	0.427	0.385	9.8	98	0.00
39	T	1,2-Dichloropropane	0.397	0.374	5.8	101	0.00
40	T	1,4-Dioxane	0.181	0.160	11.6	94	0.00
41	T	Tetrahydrofuran	0.460	0.446	3.0	103	0.00
42	T	Bromodichloromethane	0.782	0.751	4.0	98	0.00
43		Methyl Methacrylate	0.409	0.396	3.2	97	0.00
44	T	2,2,4-Trimethylpentane	1.848	1.752	5.2	101	0.00
45	T	t-1,3-Dichloropropene	0.406	0.393	3.2	96	0.00
46	T	cis-1,3-Dichloropropene	0.526	0.509	3.2	95	0.00
47	T	1,1,2-Trichloroethane	0.403	0.365	9.4	97	0.00
48	T	Dibromochloromethane	0.632	0.594	6.0	96	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.549	0.517	5.8	95	0.00
50	T	4-Methyl-2-Pentanone	1.008	1.061	-5.3	101	0.00
51	T	2-Hexanone	0.693	0.872	-25.8	101	0.00
52	T	Tetrachloroethene	0.358	0.330	7.8	97	0.00
53	T	Toluene	1.170	1.103	5.7	97	0.00
54	T	1,2-Dibromoethane	0.545	0.508	6.8	98	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56		1,1,1,2-Tetrachloroethane	0.565	0.522	7.6	97	0.00
57	T	Chlorobenzene	1.037	0.956	7.8	98	0.00
58	T	Ethyl Benzene	1.842	1.752	4.9	97	0.00
59	T	m/p-Xylene	1.466	1.395	4.8	98	0.02
60	T	o-Xylene	1.473	1.375	6.7	98	0.00
61	T	Styrene	0.693	0.690	0.4	98	0.00
62		Isopropylbenzene	2.207	2.082	5.7	99	0.00
63	T	1,1,2,2-Tetrachloroethane	0.970	0.893	7.9	99	0.00
64		n-propylbenzene	0.579	0.550	5.0	98	0.00
65		tert-Butylbenzene	2.008	1.805	10.1	97	0.00
66	T	Benzyl Chloride	0.153	0.150	2.0	92	0.00
67		sec-Butylbenzene	2.872	2.611	9.1	98	0.00
68	S	1-Bromo-4-Fluorobenzene	0.769	0.784	-2.0	96	0.00
69		p-Isopropyltoluene	2.285	2.152	5.8	100	0.00
70		n-Butylbenzene	2.332	2.230	4.4	101	0.00
71		2-Chlorotoluene	1.701	1.599	6.0	99	0.00
72	T	4-Ethyltoluene	1.799	1.719	4.4	99	0.00
73	T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	98	0.00
74	T	1,2,4-Trimethylbenzene	1.757	1.562	11.1	99	0.00
75	T	1,3-Dichlorobenzene	1.011	0.926	8.4	100	0.00
76	T	1,4-Dichlorobenzene	1.004	0.921	8.3	100	0.00
77	T	1,2-Dichlorobenzene	0.981	0.891	9.2	100	0.00
78	T	Hexachloro-1,3-Butadiene	0.764	0.652	14.7	96	0.00
79	T	Naphthalene	1.205	1.465	-21.6	100	0.00
80	T	Naphthalene,2-methyl-	0.330	0.566	-71.5#	94	0.00
81	T	1,2,4-Trichlorobenzene	0.671	0.669	0.3	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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: ENVI46

Lab Code: CHEM Case No.: Q1532 SAS No.: Q1532 SDG No.: Q1532

Instrument ID: MSVOA_L Calibration Date/Time: 03/10/2025 09:08

Lab File ID: VL042115.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:56 12:07

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.040	1.070		2.88	30
Chloromethane	0.385	0.403		4.68	30
Vinyl Chloride	0.364	0.383		5.22	30
Bromomethane	0.173	0.189		9.25	30
Chloroethane	0.148	0.155		4.73	30
Tetrahydrofuran	0.460	0.409		-11.09	30
Trichlorofluoromethane	1.042	1.130		8.44	30
1,1,2-Trichlorotrifluoroethane	0.831	0.819		-1.44	30
Dichlorotetrafluoroethane	0.855	0.904		5.73	30
tert-Butyl alcohol	1.105	0.968		-12.4	30
Heptane	1.844	1.519		-17.63	30
1,1-Dichloroethene	0.376	0.364		-3.19	30
Acetone	0.883	0.868		-1.7	30
Carbon Disulfide	0.969	0.976		0.72	30
Methyl tert-Butyl Ether	0.711	0.754		6.05	30
Methylene Chloride	0.334	0.333		-0.3	30
trans-1,2-Dichloroethene	0.438	0.436		-0.46	30
1,1-Dichloroethane	0.815	0.843		3.44	30
Cyclohexane	1.160	0.936		-19.31	30
2-Butanone	0.779	0.714		-8.34	30
Carbon Tetrachloride	0.690	0.671		-2.75	30
cis-1,2-Dichloroethene	1.353	1.052		-22.25	30
Chloroform	1.923	1.687		-12.27	30
1,1,1-Trichloroethane	1.866	1.485		-20.42	30
2,2,4-Trimethylpentane	1.848	1.713		-7.3	30
Benzene	1.047	0.951		-9.17	30
1,2-Dichloroethane	0.580	0.503		-13.28	30
Trichloroethene	0.427	0.360		-15.69	30
1,2-Dichloropropane	0.397	0.366		-7.81	30
Bromodichloromethane	0.782	0.718		-8.18	30
4-Methyl-2-Pentanone	1.008	0.978		-2.98	30
Toluene	1.170	0.989		-15.47	30
t-1,3-Dichloropropene	0.406	0.307		-24.38	30
cis-1,3-Dichloropropene	0.526	0.430		-18.25	30
1,1,2-Trichloroethane	0.403	0.369		-8.44	30
Dibromochloromethane	0.632	0.569		-9.97	30
1,2-Dibromoethane	0.545	0.483		-11.38	30
Tetrachloroethene	0.358	0.306		-14.52	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: ENVI46

Lab Code: CHEM Case No.: Q1532 SAS No.: Q1532 SDG No.: Q1532

Instrument ID: MSVOA_L Calibration Date/Time: 03/10/2025 09:08

Lab File ID: VL042115.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:56 12:07

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	1.037	0.962		-7.23	30
Ethyl Benzene	1.842	1.602		-13.03	30
m/p-Xylene	1.466	1.356		-7.5	30
o-Xylene	1.473	1.360		-7.67	30
Styrene	0.693	0.595		-14.14	30
Bromoform	0.549	0.516		-6.01	30
1,1,2,2-Tetrachloroethane	0.970	0.955		-1.55	30
2-Chlorotoluene	1.701	1.503		-11.64	30
1,3,5-Trimethylbenzene	1.560	1.401		-10.19	30
1,2,4-Trimethylbenzene	1.757	1.604		-8.71	30
1,3-Dichlorobenzene	1.011	0.949		-6.13	30
1,4-Dichlorobenzene	1.004	0.938		-6.57	30
1,2-Dichlorobenzene	0.981	0.940		-4.18	30
1,2,4-Trichlorobenzene	0.671	0.625		-6.86	30
Hexachloro-1,3-Butadiene	0.764	0.645		-15.58	30
1,3-Butadiene	0.411	0.422		2.68	30
Naphthalene	1.205	1.371		13.78	30
4-Ethyltoluene	1.799	1.651		-8.23	30
1-Bromo-4-Fluorobenzene	0.769	0.815		5.98	30
Hexane	1.429	1.213		-15.11	30
Allyl Chloride	0.638	0.625		-2.04	30
1,4-Dioxane	181.383	168.887		-6.89	30
Methyl Methacrylate	0.409	0.336		-17.85	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\VL031025\
Data File : VL042115.D
Acq On : 10 Mar 2025 09:08
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:20:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	165085	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	392891	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	342991	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	279482	10.591	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	176674	10.292	ppbv	100
3) Chlorodifluoromethane	1.479	51	214625	8.945	ppbv	100
4) Chloromethane	1.538	50	66603	10.491	ppbv	99
5) Vinyl Chloride	1.586	62	63194	10.524	ppbv	99
6) Bromomethane	1.674	94	31189	10.908	ppbv	95
7) Chloroethane	1.709	64	25650	10.513	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	149265	10.577	ppbv	96
9) Propene	1.489	41	84787	8.674	ppbv	97
10) Heptane	5.004	43	250763	8.240	ppbv	99
11) Trichlorofluoromethane	1.884	101	186477	10.841	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	135213	9.855	ppbv	95
13) Ethanol	1.729	45	4581	7.383	ppbv	100
14) Bromoethene	1.787	108	49525	10.221	ppbv	99
15) Acetone	1.842	43	143215	9.824	ppbv	98
16) 1,3-Butadiene	1.615	39	69593	10.258	ppbv	97
17) tert-Butyl alcohol	2.049	59	159834	8.763	ppbv	99
18) 1,1-Dichloroethene	2.043	96	60058	9.687	ppbv	93
19) Isopropyl Alcohol	1.894	45	80799	9.648	ppbv	95
20) Methylene Chloride	2.068	84	54929	9.961	ppbv	94
21) Allyl Chloride	2.104	41	103183	9.796	ppbv	97
22) trans-1,2-Dichloroethene	2.350	96	72057	9.970	ppbv	93
23) Vinyl Acetate	2.473	43	75424	7.358	ppbv #	97
24) 1,1-Dichloroethane	2.418	63	139243	10.354	ppbv	99
25) Ethyl Acetate	2.848	43	504073	8.638	ppbv	99
26) Hexane	2.839	57	200177	8.485	ppbv	97
27) Carbon Disulfide	2.159	76	161105	10.074	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	124414	10.593	ppbv	96
29) Chloroform	2.861	83	278501	8.771	ppbv	97
30) Cyclohexane	3.874	84	154573	8.072	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	173603	7.774	ppbv	98
32) 1,1,1-Trichloroethane	3.382	97	245078	7.957	ppbv	95
34) 2-Butanone	2.570	43	280396	9.161	ppbv	96
35) Carbon Tetrachloride	3.777	117	263471	9.725	ppbv	96
36) Benzene	3.671	78	373628	9.084	ppbv	99
37) 1,2-Dichloroethane	3.234	62	197592	8.665	ppbv	100
38) Trichloroethene	4.567	130	141399	8.419	ppbv	91
39) 1,2-Dichloropropane	4.331	63	143609	9.199	ppbv	96
40) 1,4-Dioxane	4.609	88	66354	9.311	ppbv #	98
41) Tetrahydrofuran	3.069	42	160836	8.893	ppbv	96
42) Bromodichloromethane	4.509	83	282060	9.180	ppbv	98
43) Methyl Methacrylate	4.907	69	131818	8.207	ppbv	95
44) 2,2,4-Trimethylpentane	4.661	57	672958	9.271	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	120441	7.547	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042115.D
Acq On : 10 Mar 2025 09:08
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:20:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	168796	8.174	ppbv		98
47) 1,1,2-Trichloroethane	6.603	97	144966m	9.147	ppbv		
48) Dibromochloromethane	7.406	129	223556	9.006	ppbv		98
49) Bromoform	9.500	173	202719	9.404	ppbv		98
50) 4-Methyl-2-Pentanone	5.784	43	384115	9.703	ppbv		98
51) 2-Hexanone	7.457	43	305375	11.208	ppbv	#	98
52) Tetrachloroethene	8.244	164	120090	8.529	ppbv		97
53) Toluene	6.959	91	388571	8.453	ppbv		99
54) 1,2-Dibromoethane	7.671	107	189652	8.851	ppbv		94
56) 1,1,1,2-Tetrachloroethane	8.943	131	184992	9.542	ppbv		99
57) Chlorobenzene	8.937	112	330038	9.281	ppbv		99
58) Ethyl Benzene	9.370	91	549396	8.698	ppbv		100
59) m/p-Xylene	9.564	91	930397m	18.509	ppbv		
60) o-Xylene	9.979	91	466520	9.232	ppbv		98
61) Styrene	9.885	104	204092	8.590	ppbv		98
62) Isopropylbenzene	10.552	105	696113	9.198	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.979	83	327603	9.844	ppbv		99
64) n-propylbenzene	11.002	120	187705	9.455	ppbv		99
65) tert-Butylbenzene	11.542	119	627319	9.108	ppbv		99
66) Benzyl Chloride	11.626	91	43097	8.200	ppbv		100
67) sec-Butylbenzene	11.782	105	899556	9.132	ppbv		99
69) p-Isopropyltoluene	11.937	119	744068	9.494	ppbv		99
70) n-Butylbenzene	12.293	91	759905	9.499	ppbv		99
71) 2-Chlorotoluene	10.914	91	515375	8.834	ppbv		99
72) 4-Ethyltoluene	11.137	105	566348	9.179	ppbv		100
73) 1,3,5-Trimethylbenzene	11.218	105	480409	8.976	ppbv		99
74) 1,2,4-Trimethylbenzene	11.549	105	550074	9.127	ppbv		95
75) 1,3-Dichlorobenzene	11.620	146	325514	9.385	ppbv		99
76) 1,4-Dichlorobenzene	11.684	146	321685	9.341	ppbv		100
77) 1,2-Dichlorobenzene	11.960	146	322300	9.575	ppbv		99
78) Hexachloro-1,3-Butadiene	13.895	225	221283	8.449	ppbv		100
79) Naphthalene	13.526	128	470224	11.379	ppbv		99
80) Naphthalene,2-methyl-	14.471	142	147775	13.067	ppbv		99
81) 1,2,4-Trichlorobenzene	13.455	180	214425	9.311	ppbv		99

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

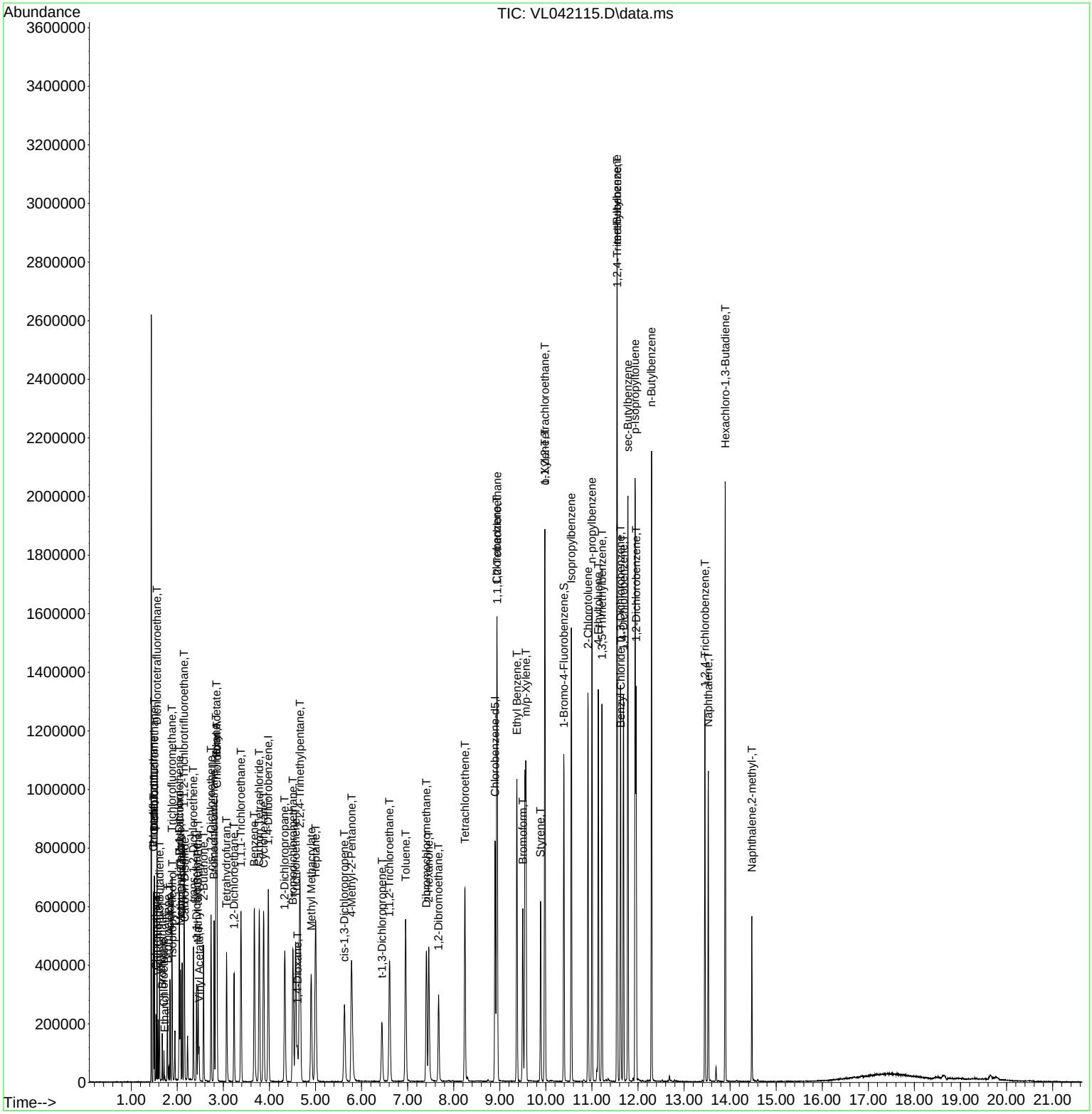
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042115.D
Acq On : 10 Mar 2025 09:08
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

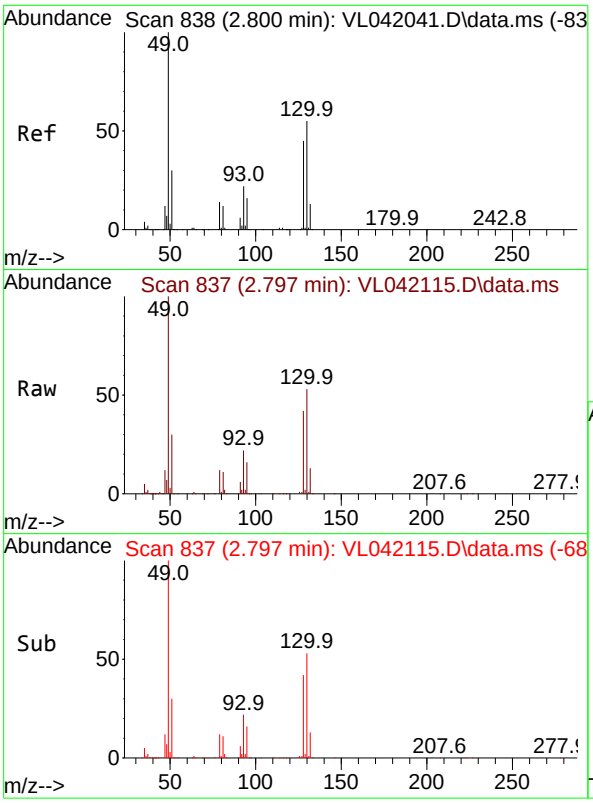
Quant Time: Mar 11 01:20:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

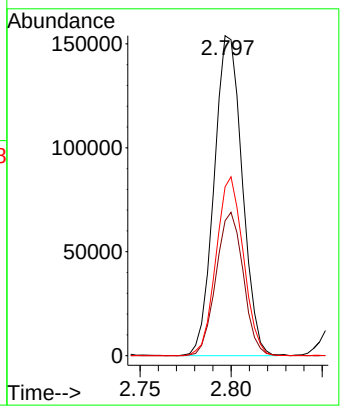
Tgt Ion: 49 Resp: 16508

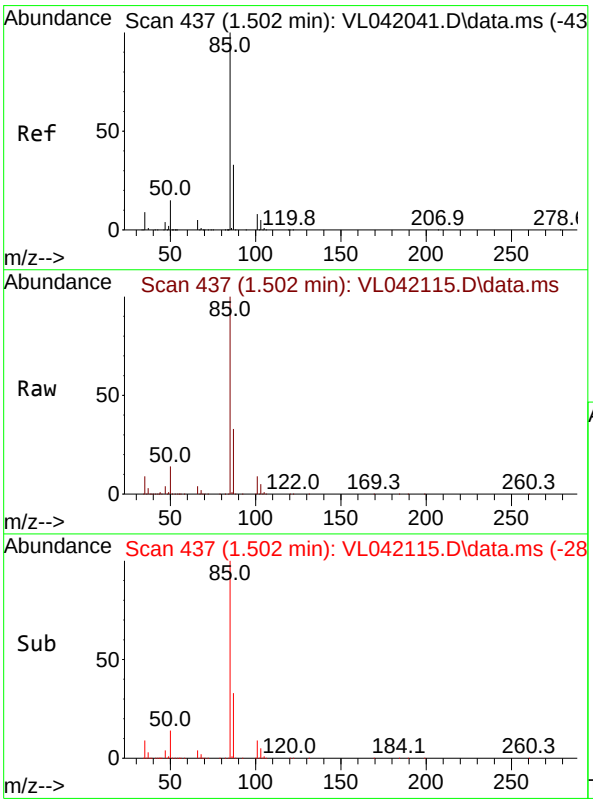
Ion	Ratio	Lower	Upper
49	100		
128	43.4	21.6	64.8
130	54.2	27.8	83.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

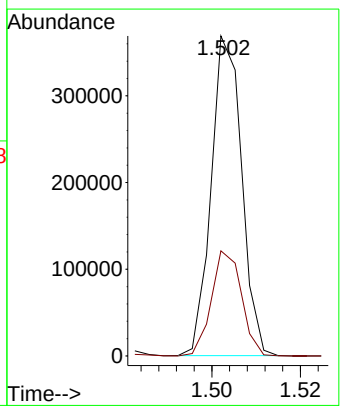


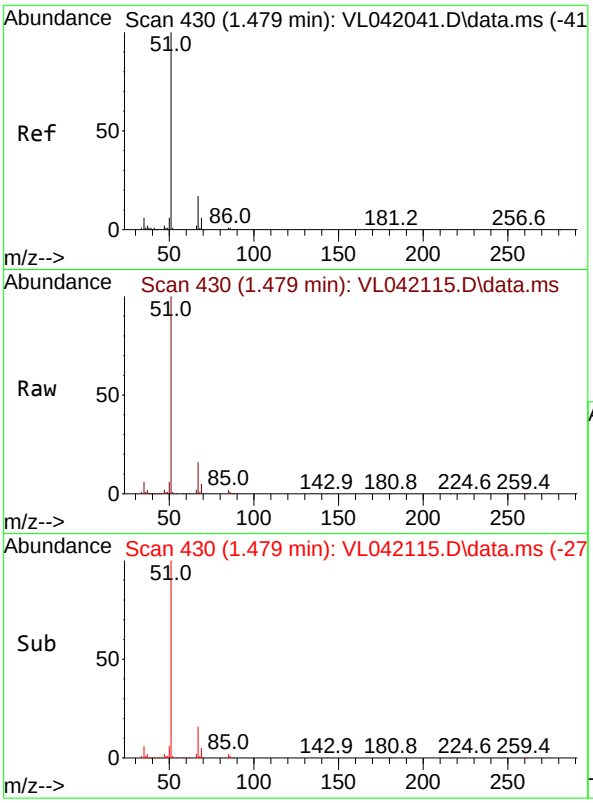


#2
Dichlorodifluoromethane
Concen: 10.292 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 85 Resp: 176674

Ion	Ratio	Lower	Upper
85	100		
87	32.9	26.4	39.6

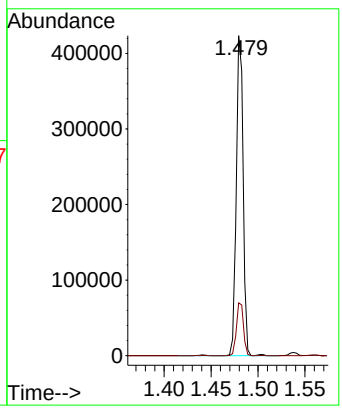




#3
Chlorodifluoromethane
Concen: 8.945 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 51 Resp: 21462

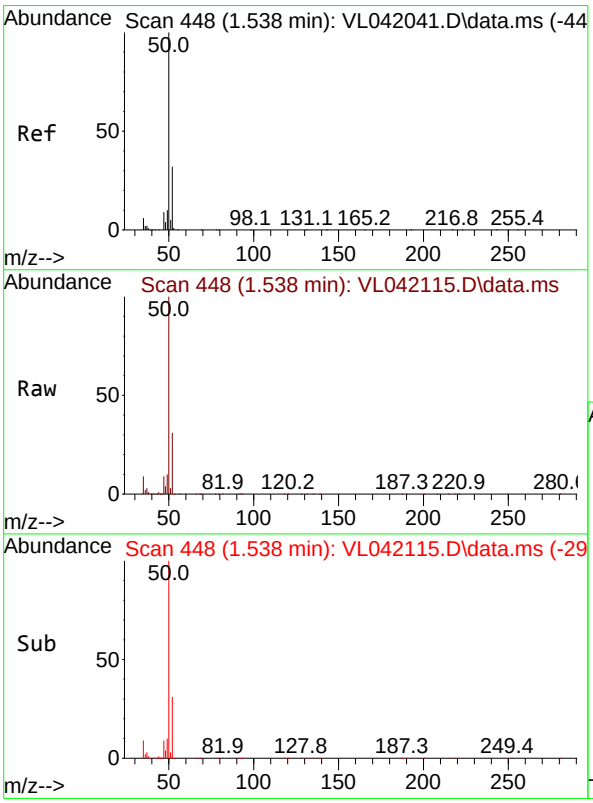
Ion	Ratio	Lower	Upper
51	100		
67	16.9	13.7	20.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

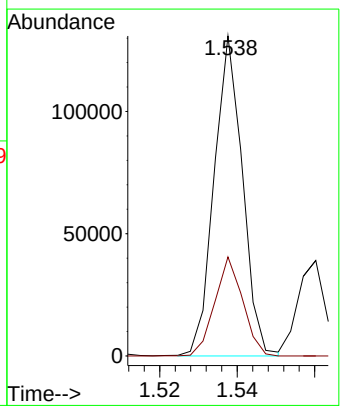
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

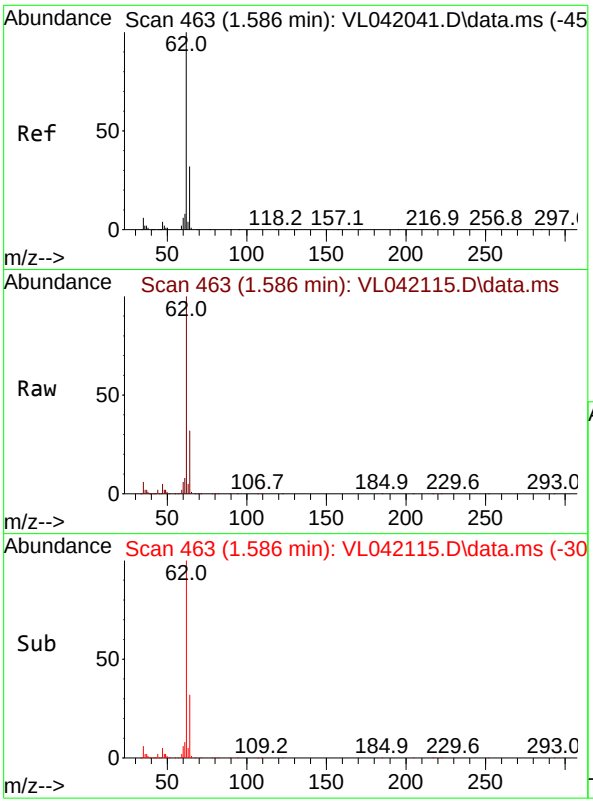


#4
Chloromethane
Concen: 10.491 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 50 Resp: 66603

Ion	Ratio	Lower	Upper
50	100		
52	31.0	25.4	38.0

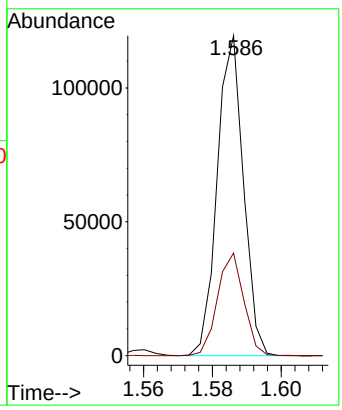




#5
Vinyl Chloride
Concen: 10.524 ppbv
RT: 1.586 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 62 Resp: 6319

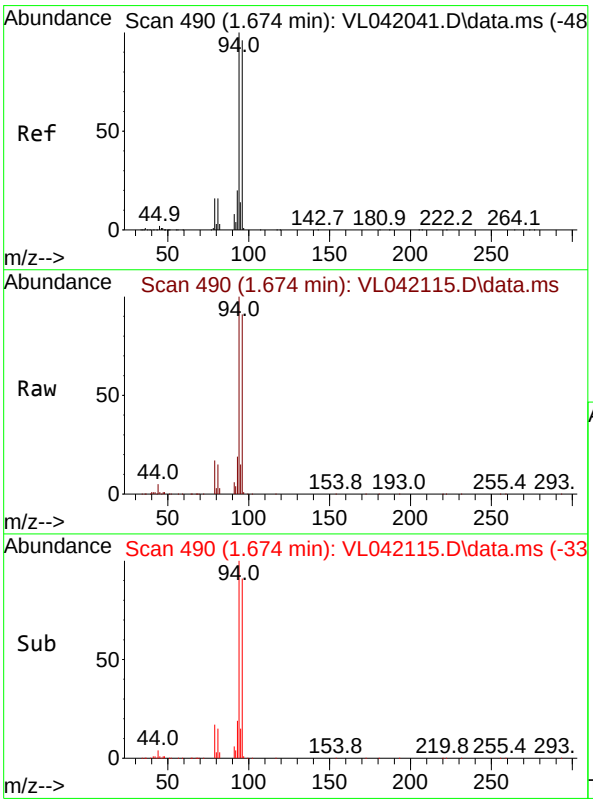
Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.3	37.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

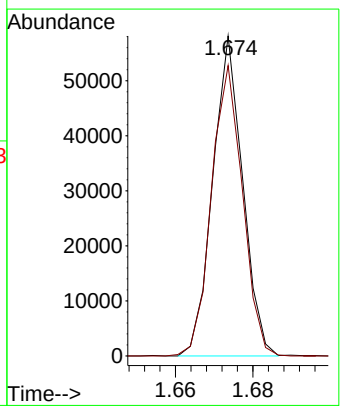
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

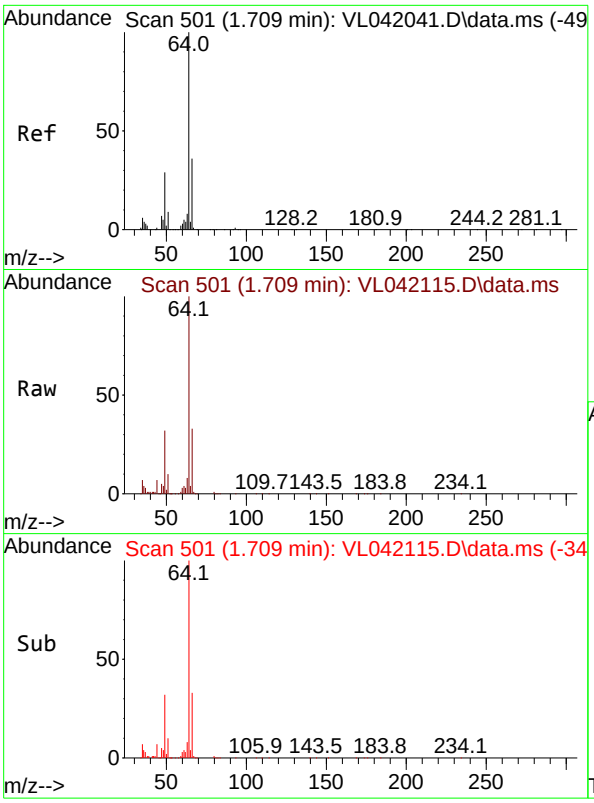


#6
Bromomethane
Concen: 10.908 ppbv
RT: 1.674 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 94 Resp: 31189

Ion	Ratio	Lower	Upper
94	100		
96	90.5	76.5	114.7

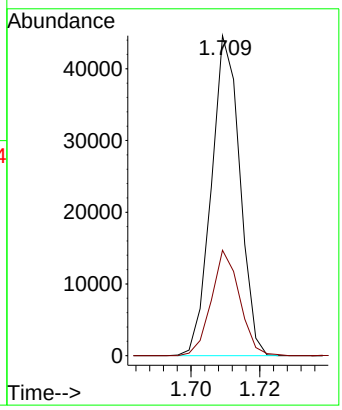




#7
Chloroethane
Concen: 10.513 ppbv
RT: 1.709 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 64 Resp: 2565(

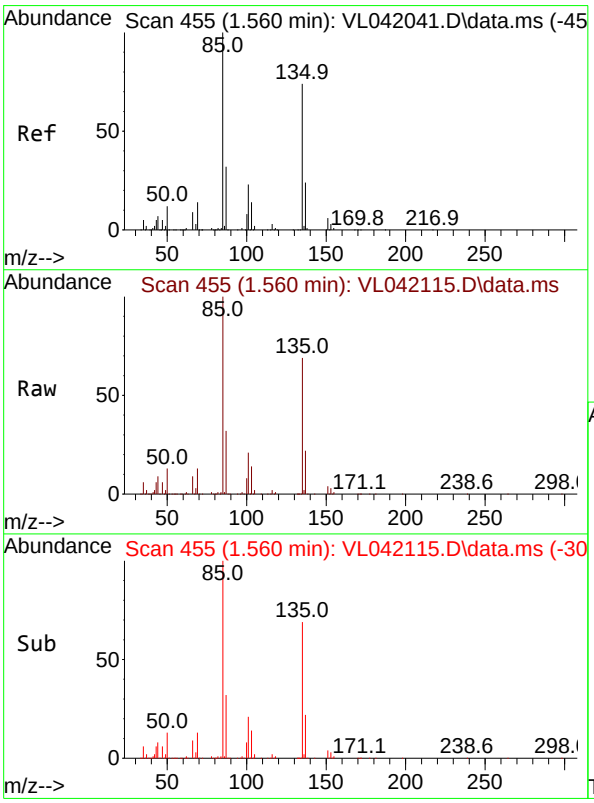
Ion	Ratio	Lower	Upper
64	100		
66	32.9	28.4	42.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

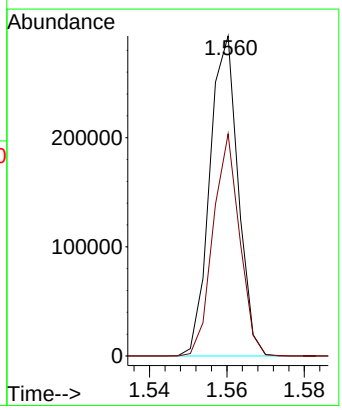
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

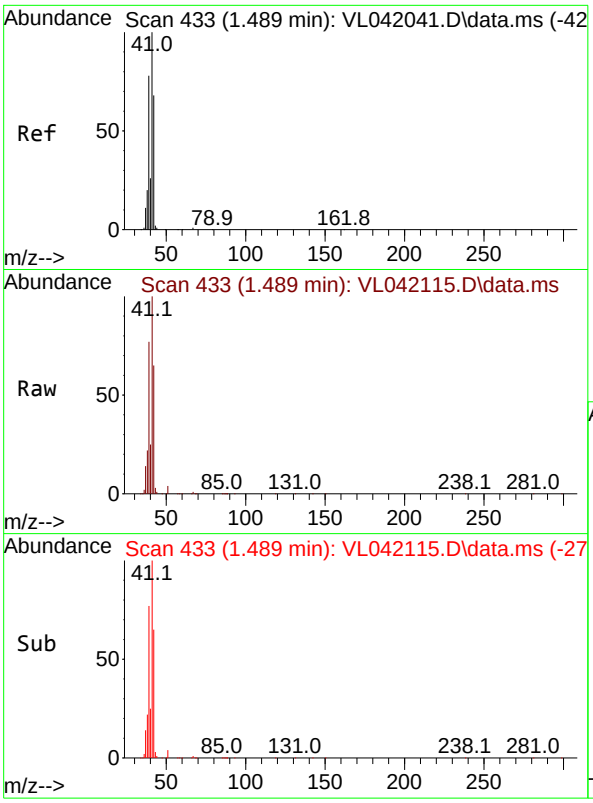


#8
Dichlorotetrafluoroethane
Concen: 10.577 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 85 Resp: 149265

Ion	Ratio	Lower	Upper
85	100		
135	64.9	54.6	81.8

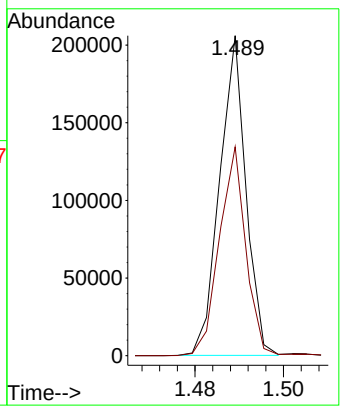




#9
Propene
Concen: 8.674 ppbv
RT: 1.489 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 41 Resp: 8478

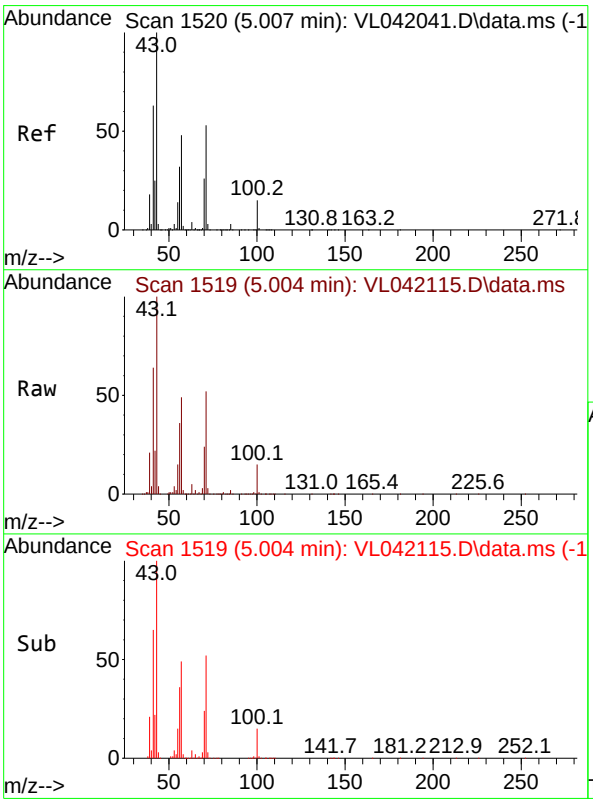
Ion	Ratio	Lower	Upper
41	100		
42	67.0	55.8	83.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

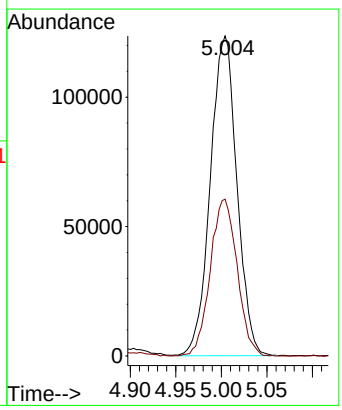
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

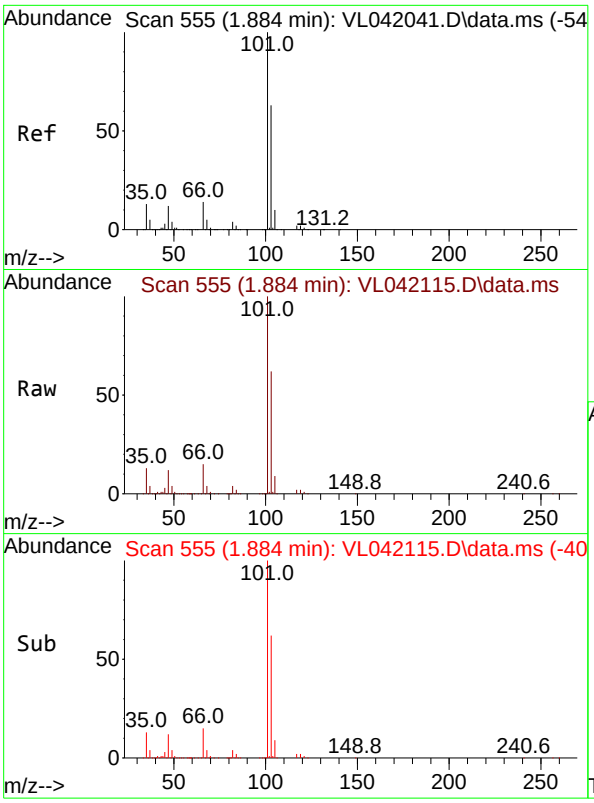


#10
Heptane
Concen: 8.240 ppbv
RT: 5.004 min Scan# 1519
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 43 Resp: 250763

Ion	Ratio	Lower	Upper
43	100		
57	49.6	39.4	59.0





#11
Trichlorofluoromethane
Concen: 10.841 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

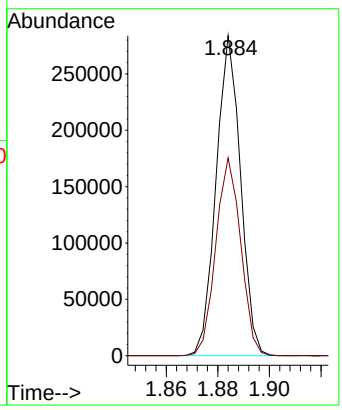
Tgt Ion:101 Resp: 18647

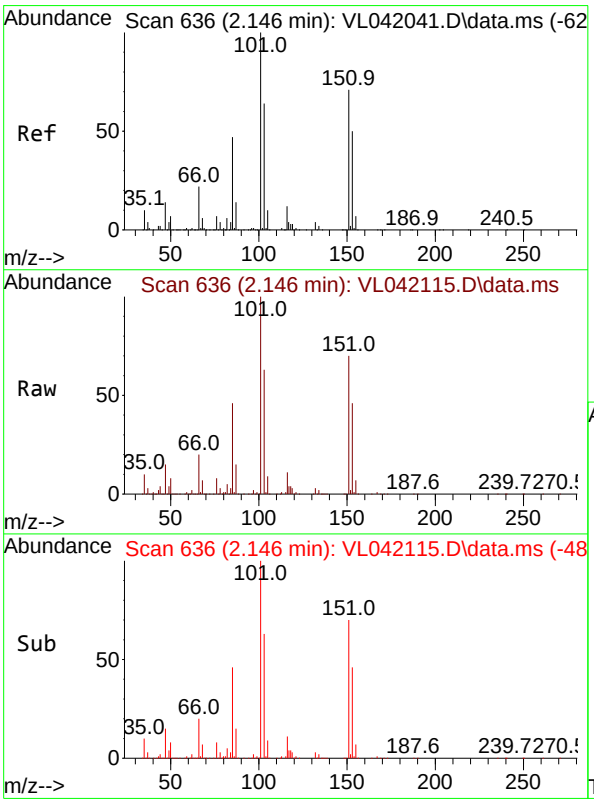
Ion	Ratio	Lower	Upper
101	100		
103	61.8	50.6	75.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

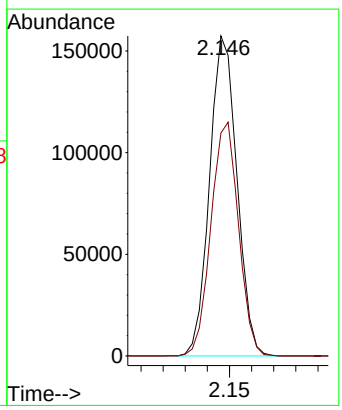


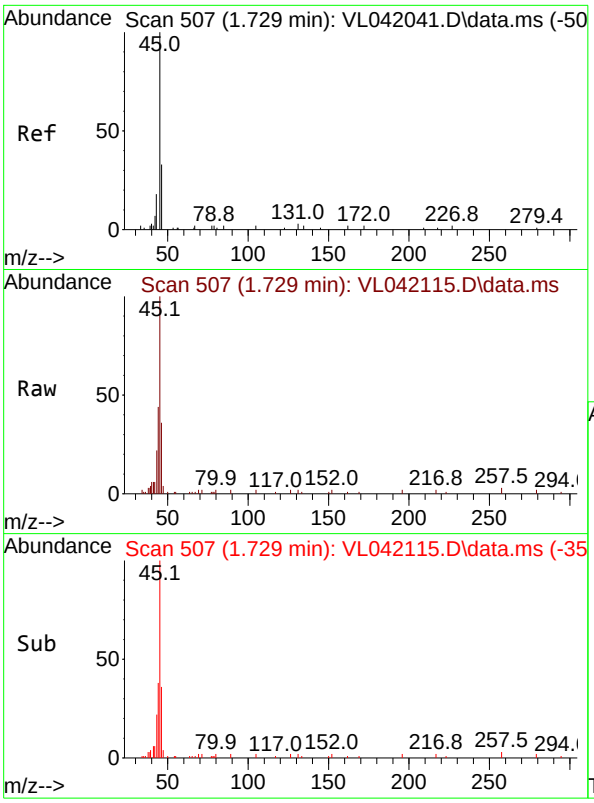


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.855 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:101 Resp: 135213

Ion	Ratio	Lower	Upper
101	100		
151	73.6	62.6	94.0

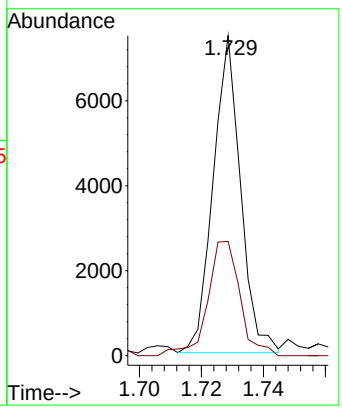




#13
Ethanol
Concen: 7.383 ppbv
RT: 1.729 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 45 Resp: 458

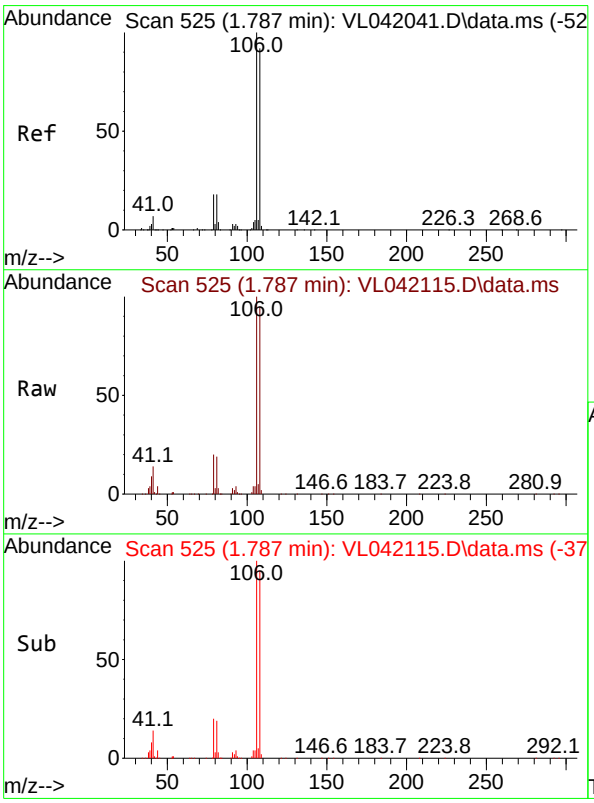
Ion	Ratio	Lower	Upper
45	100		
46	42.4	17.1	68.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

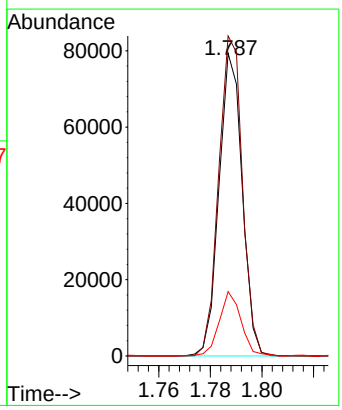
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

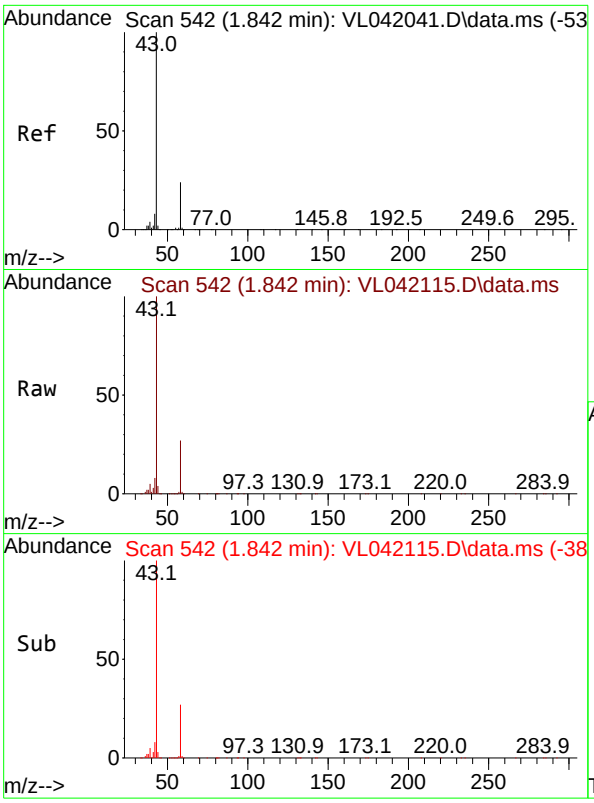


#14
Bromoethene
Concen: 10.221 ppbv
RT: 1.787 min Scan# 525
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:108 Resp: 49525

Ion	Ratio	Lower	Upper
108	100		
106	107.8	85.4	128.0
79	20.3	16.5	24.7

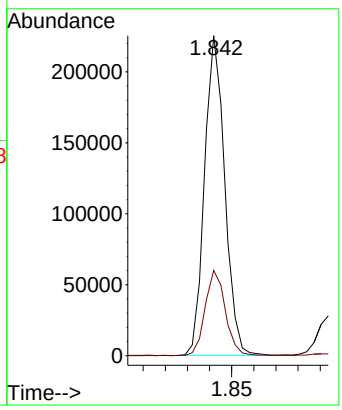




#15
Acetone
Concen: 9.824 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 43 Resp: 14321

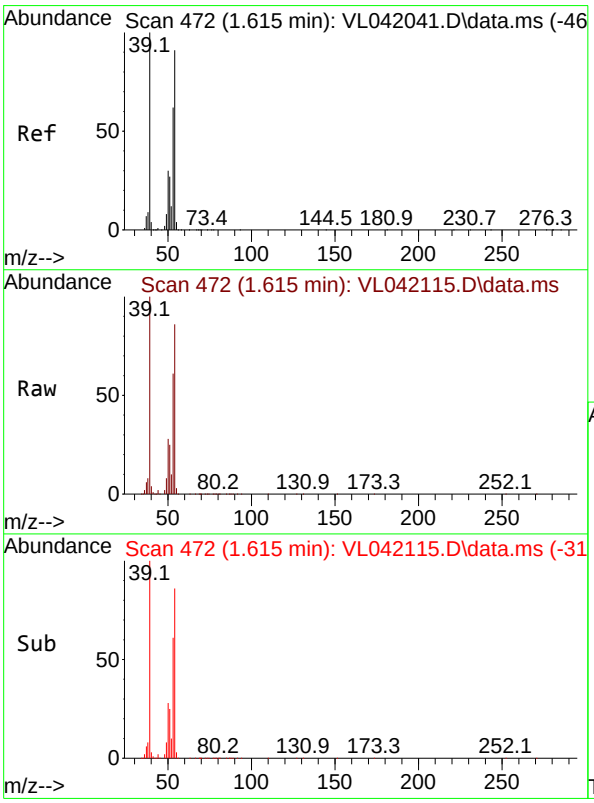
Ion	Ratio	Lower	Upper
43	100		
58	26.8	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

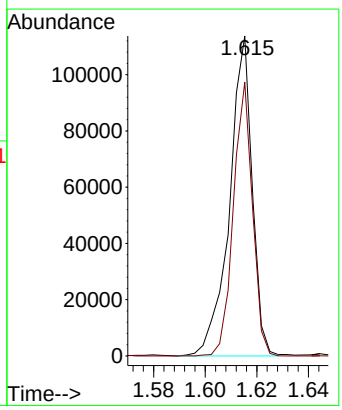
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

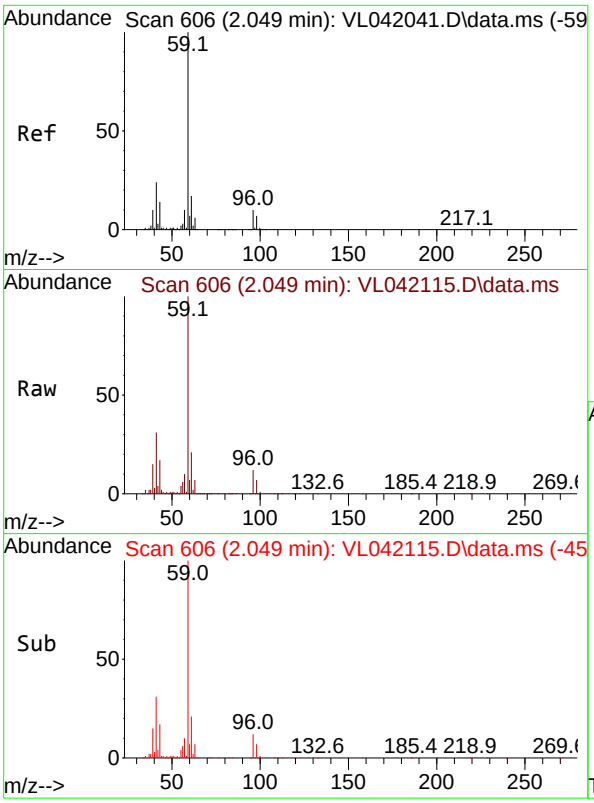


#16
1,3-Butadiene
Concen: 10.258 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 39 Resp: 69593

Ion	Ratio	Lower	Upper
39	100		
54	71.8	59.6	89.4

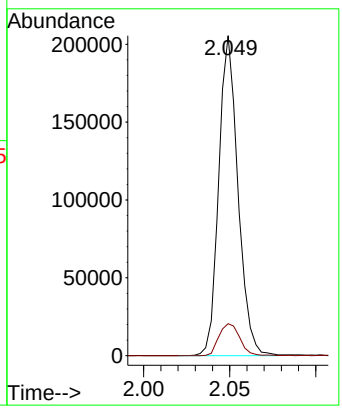




#17
tert-Butyl alcohol
Concen: 8.763 ppbv
RT: 2.049 min Scan# 6(
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 59 Resp: 15983

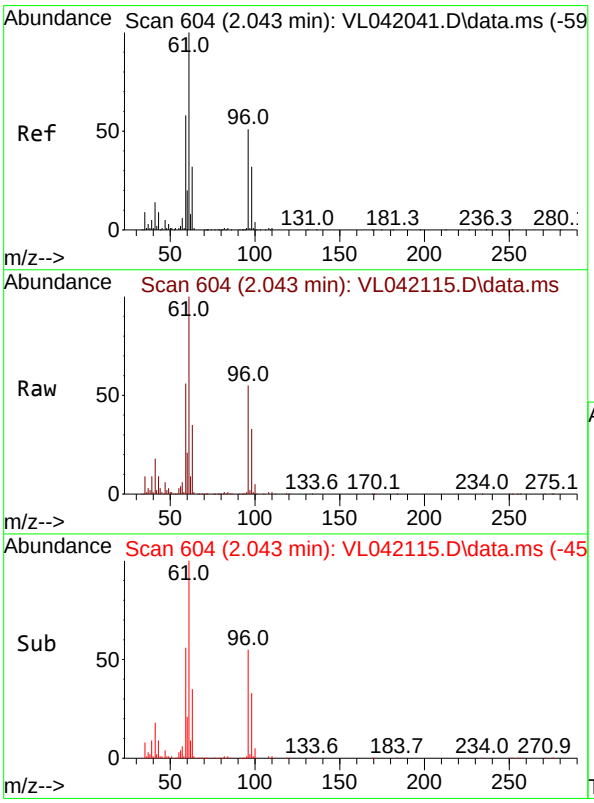
Ion	Ratio	Lower	Upper
59	100		
57	11.1	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

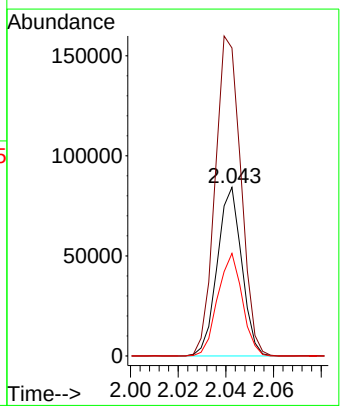
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

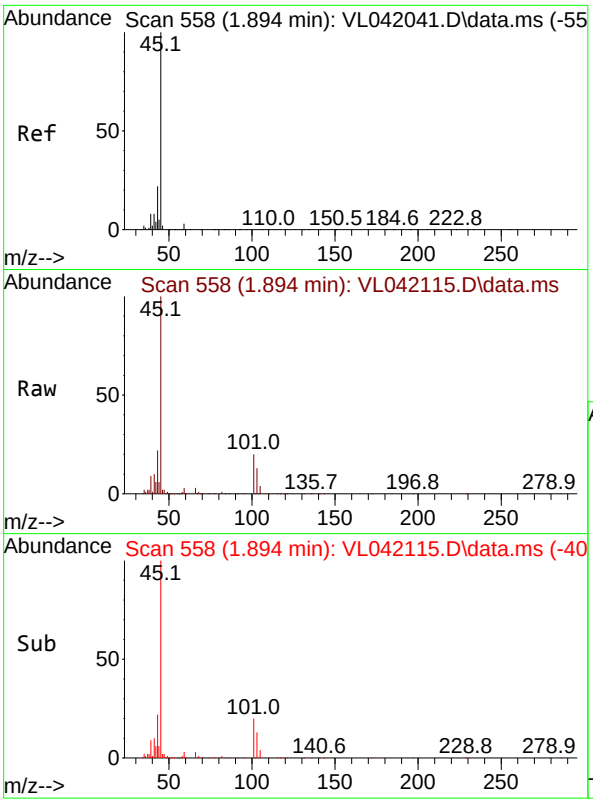


#18
1,1-Dichloroethene
Concen: 9.687 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 96 Resp: 60058

Ion	Ratio	Lower	Upper
96	100		
61	182.6	156.0	234.0
98	60.8	49.4	74.2

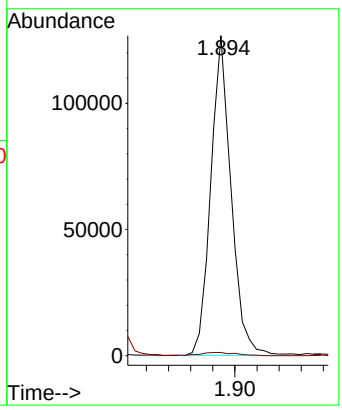




#19
Isopropyl Alcohol
Concen: 9.648 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 45 Resp: 8079

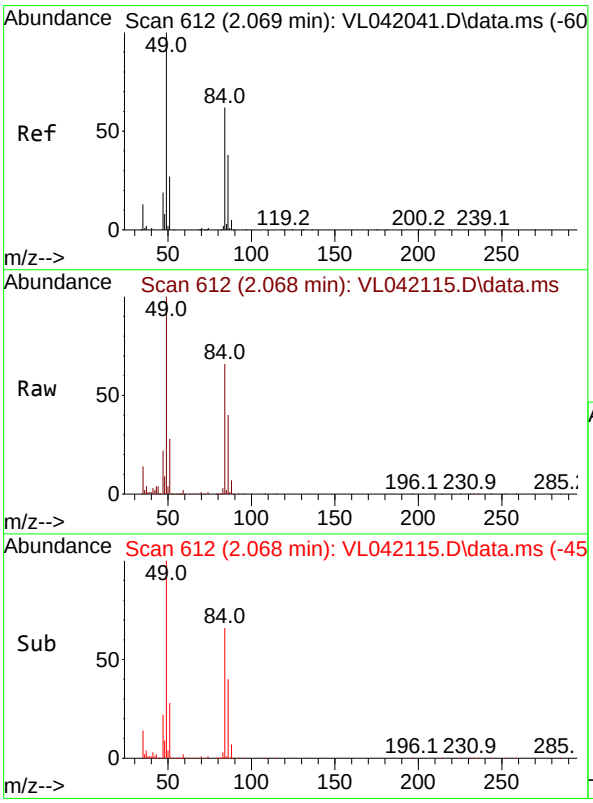
Ion	Ratio	Lower	Upper
45	100		
58	47.5	35.3	52.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

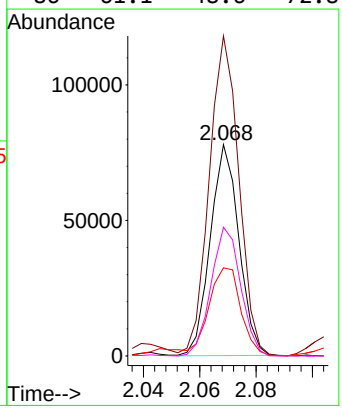
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

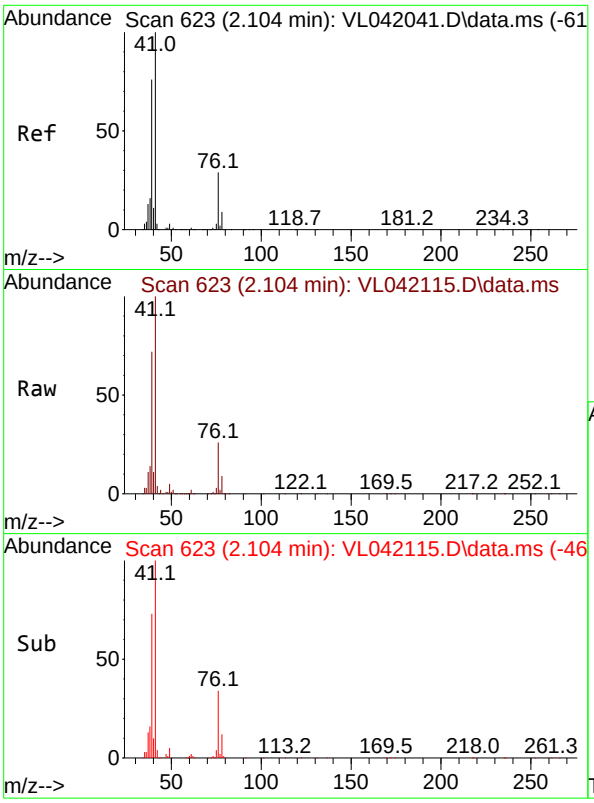


#20
Methylene Chloride
Concen: 9.961 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 84 Resp: 54929

Ion	Ratio	Lower	Upper
84	100		
49	151.6	130.0	195.0
51	41.6	37.4	56.0
86	61.1	48.6	72.8





#21
Allyl Chloride
Concen: 9.796 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

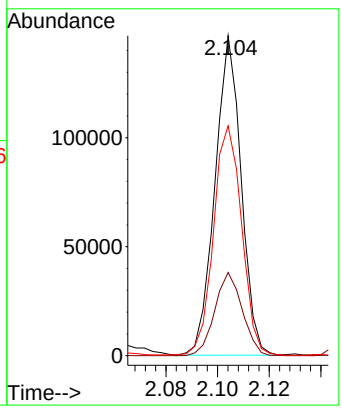
Tgt Ion: 41 Resp: 10318

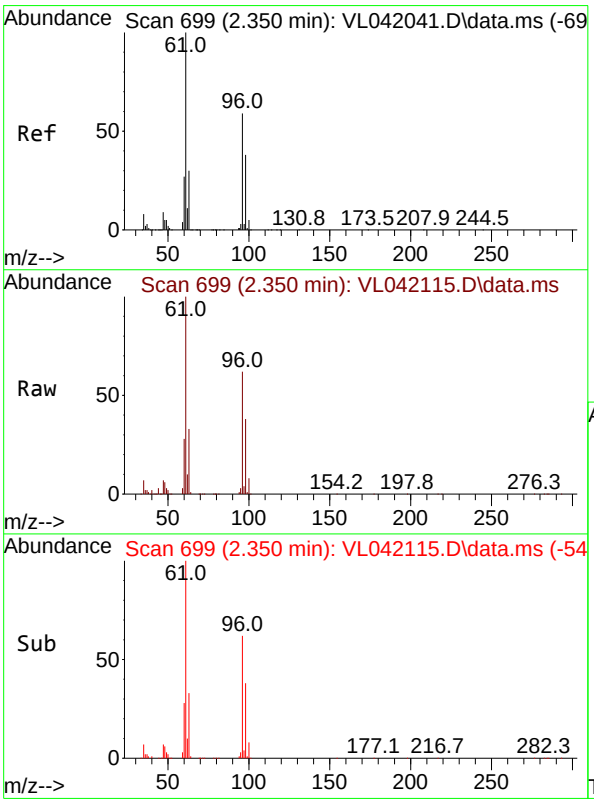
Ion	Ratio	Lower	Upper
41	100		
76	27.3	23.8	35.6
39	77.0	63.8	95.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

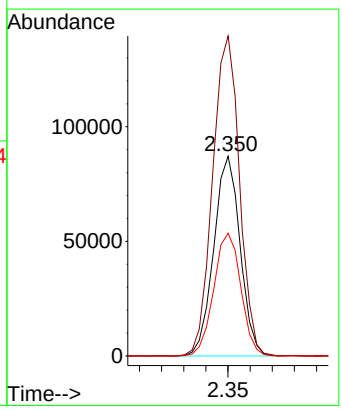


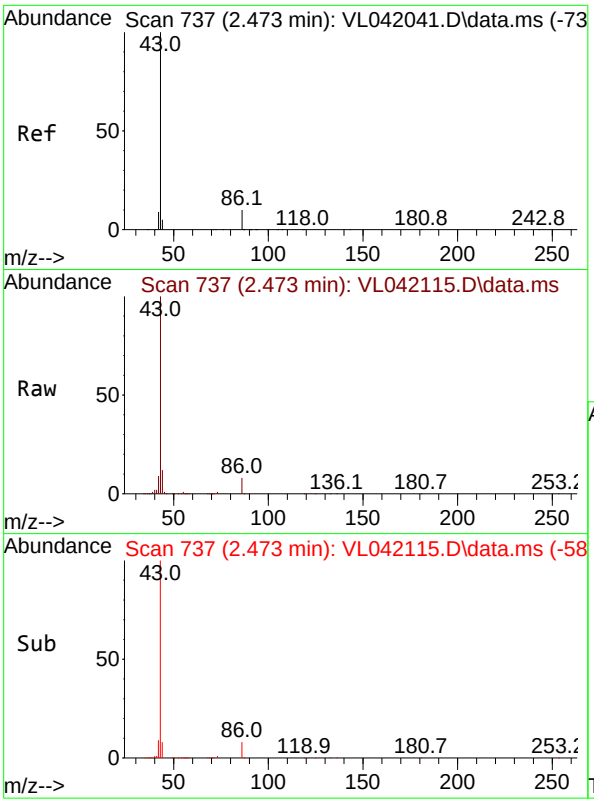


#22
trans-1,2-Dichloroethene
Concen: 9.970 ppbv
RT: 2.350 min Scan# 699
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 96 Resp: 72057

Ion	Ratio	Lower	Upper
96	100		
61	160.3	136.6	205.0
98	61.5	51.8	77.6

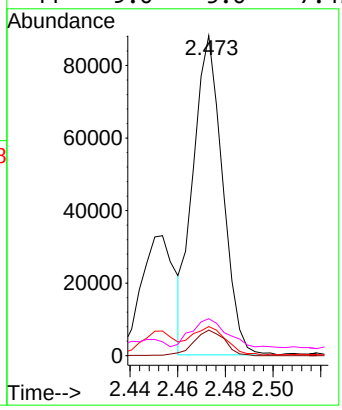




#23
Vinyl Acetate
Concen: 7.358 ppbv
RT: 2.473 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 43 Resp: 7542

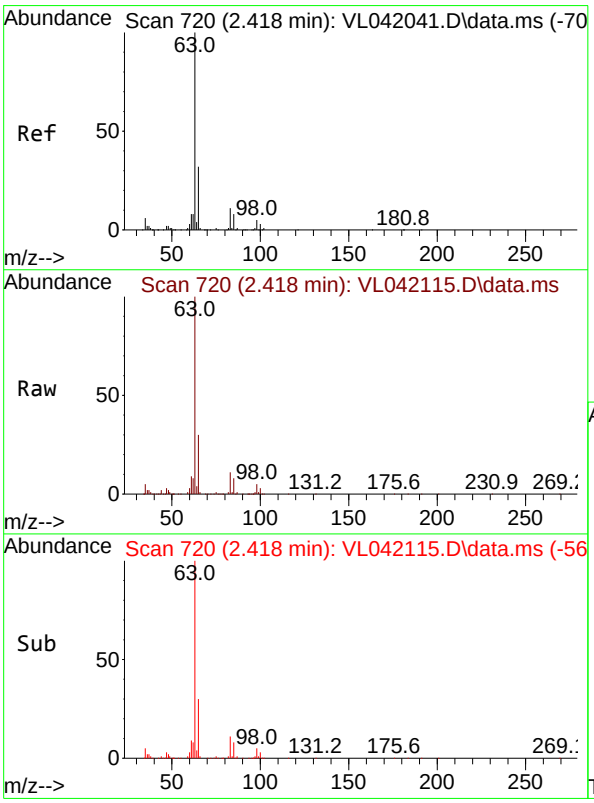
Ion	Ratio	Lower	Upper
43	100		
86	8.0	7.0	10.4
42	8.8	7.6	11.4
44	9.0	5.0	7.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

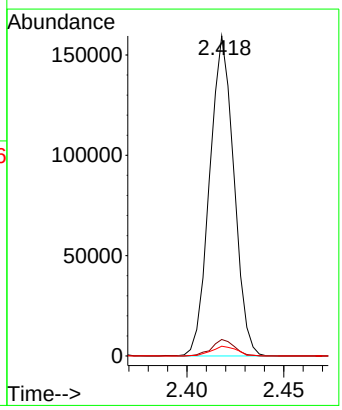
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

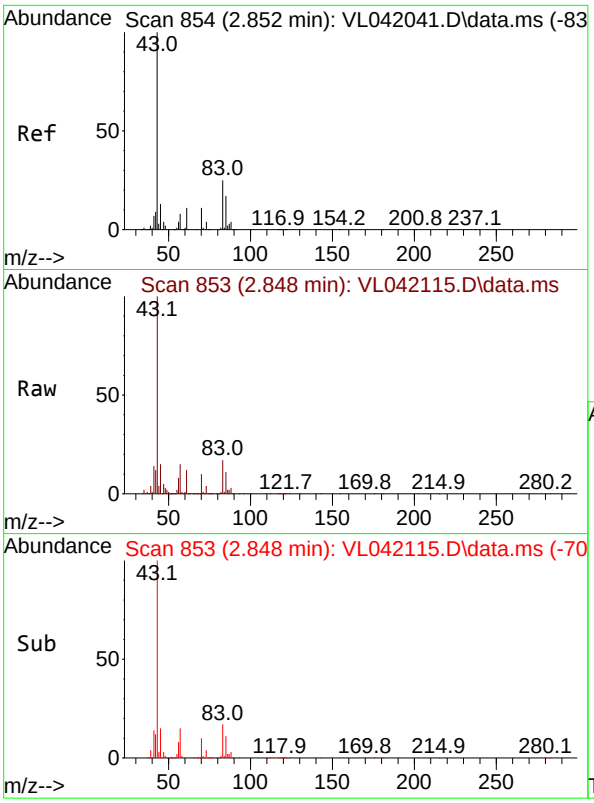


#24
1,1-Dichloroethane
Concen: 10.354 ppbv
RT: 2.418 min Scan# 720
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 63 Resp: 139243

Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.4	7.2
100	3.0	1.7	5.0

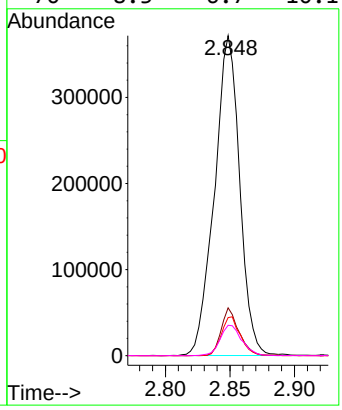




#25
Ethyl Acetate
Concen: 8.638 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 43 Resp: 50407

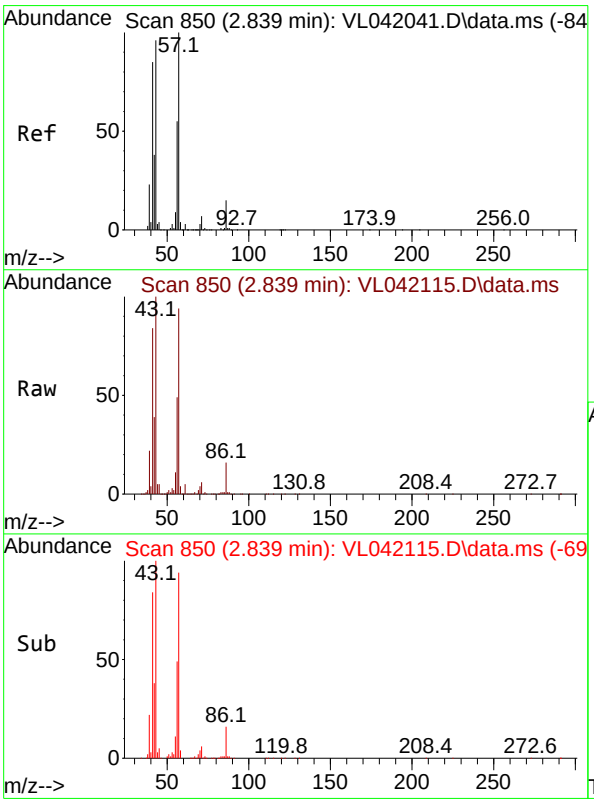
Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.1	12.1
61	9.3	7.2	10.8
70	8.3	6.7	10.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

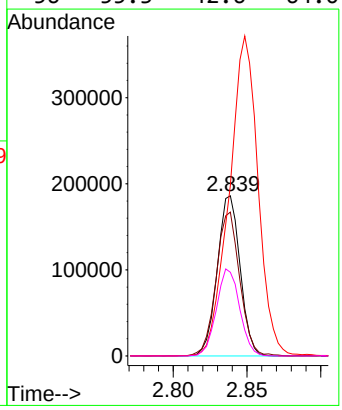
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

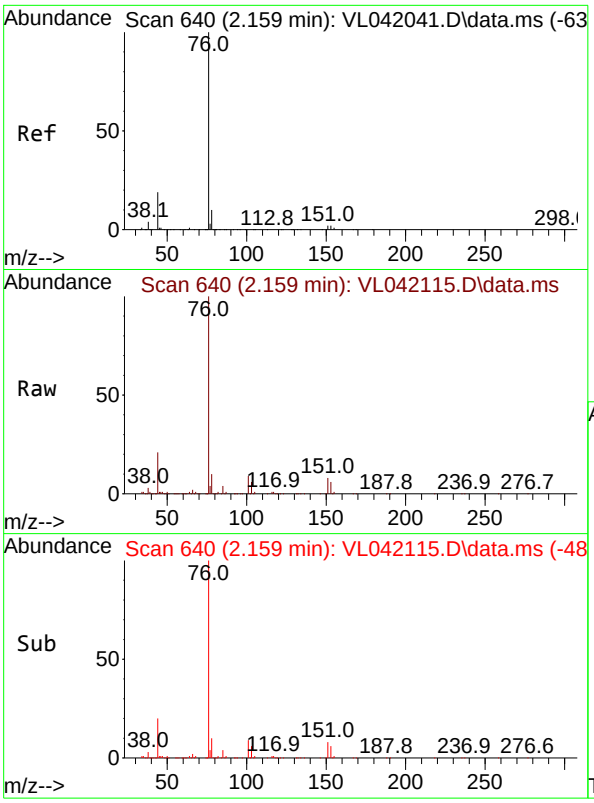


#26
Hexane
Concen: 8.485 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 57 Resp: 200177

Ion	Ratio	Lower	Upper
57	100		
41	93.5	70.6	106.0
43	252.6	199.4	299.0
56	55.3	42.6	64.0





#27
Carbon Disulfide
Concen: 10.074 ppbv
RT: 2.159 min Scan# 64
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

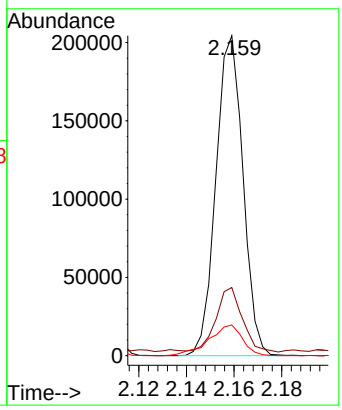
Tgt Ion: 76 Resp: 16110

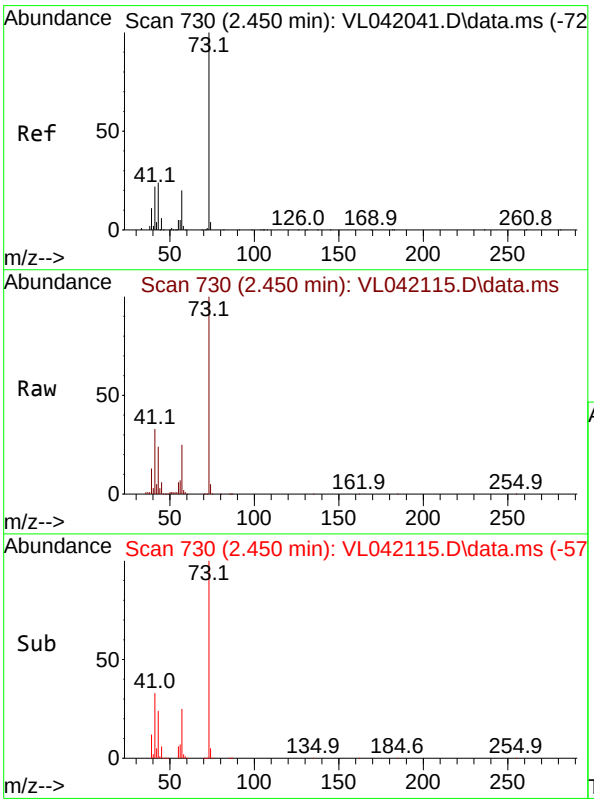
Ion	Ratio	Lower	Upper
76	100		
44	19.9	16.2	24.2
78	11.9	9.4	14.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

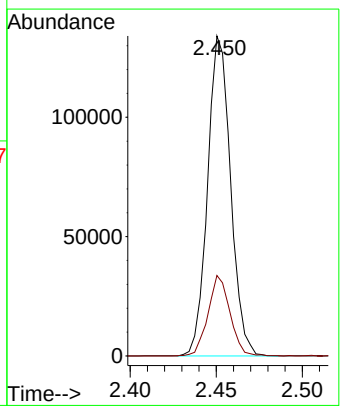


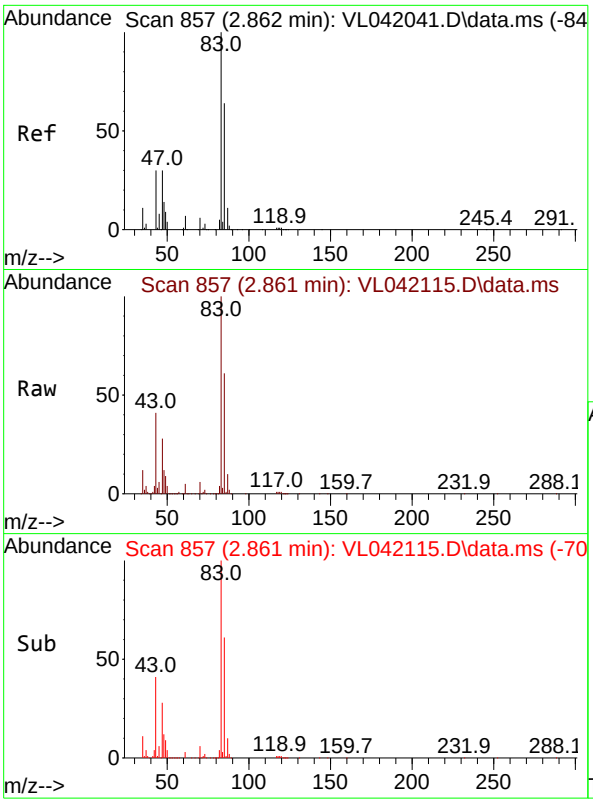


#28
Methyl tert-Butyl Ether
Concen: 10.593 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 73 Resp: 124414

Ion	Ratio	Lower	Upper
73	100		
57	24.2	17.7	26.5

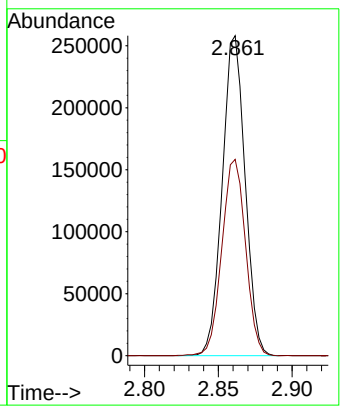




#29
Chloroform
Concen: 8.771 ppbv
RT: 2.861 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 83 Resp: 27850

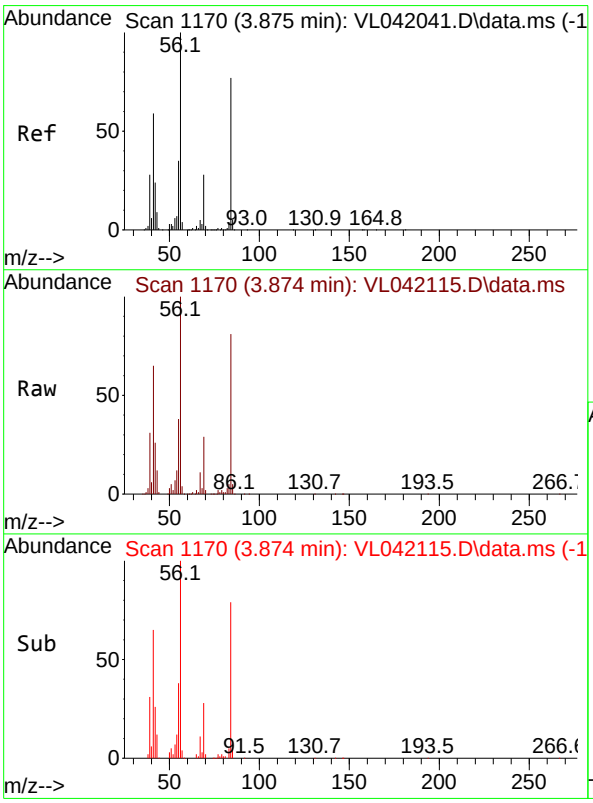
Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.2	76.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

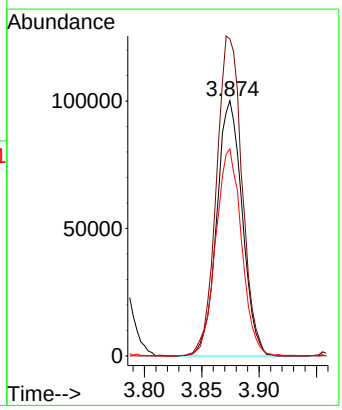
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

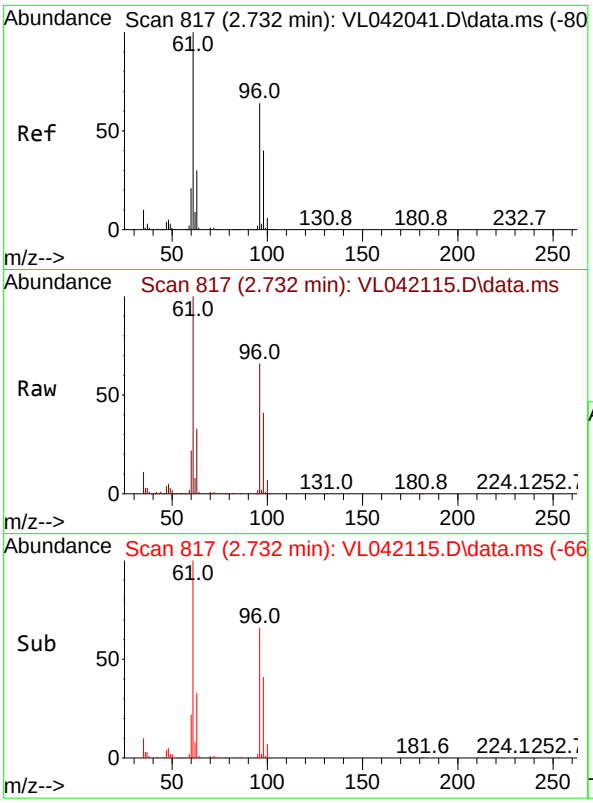


#30
Cyclohexane
Concen: 8.072 ppbv
RT: 3.874 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 84 Resp: 154573

Ion	Ratio	Lower	Upper
84	100		
56	125.8	101.5	152.3
41	82.4	62.6	93.8

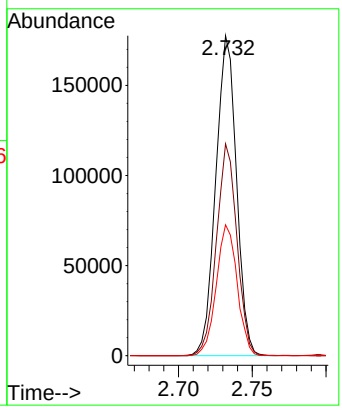




#31
cis-1,2-Dichloroethene
Concen: 7.774 ppbv
RT: 2.732 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 61 Resp: 17360

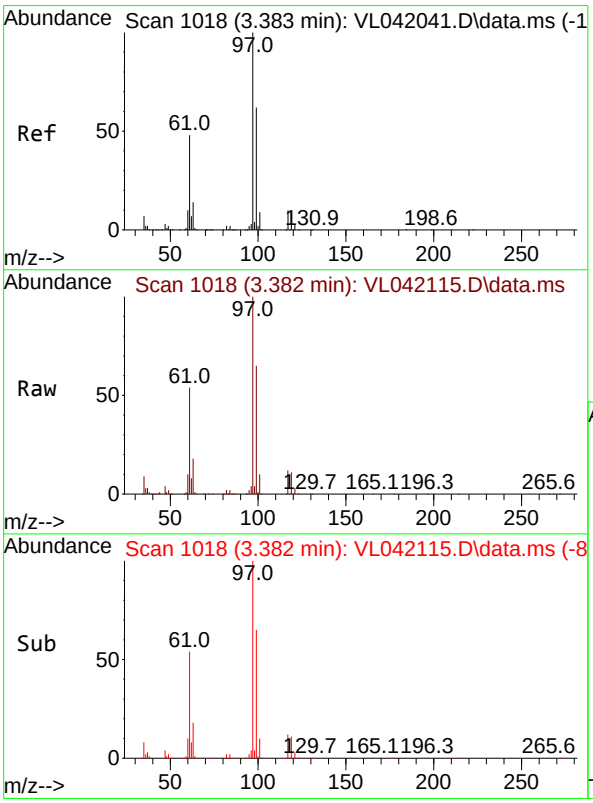
Ion	Ratio	Lower	Upper
61	100		
96	66.2	51.5	77.3
98	40.9	32.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

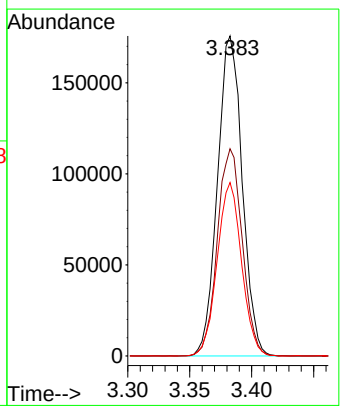
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

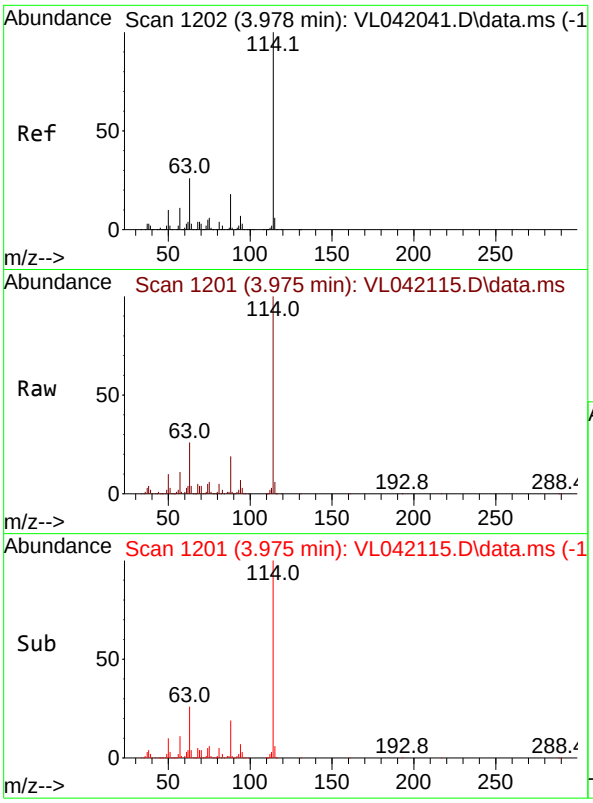


#32
1,1,1-Trichloroethane
Concen: 7.957 ppbv
RT: 3.382 min Scan# 1018
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 97 Resp: 245078

Ion	Ratio	Lower	Upper
97	100		
99	65.1	49.8	74.6
61	53.5	38.9	58.3

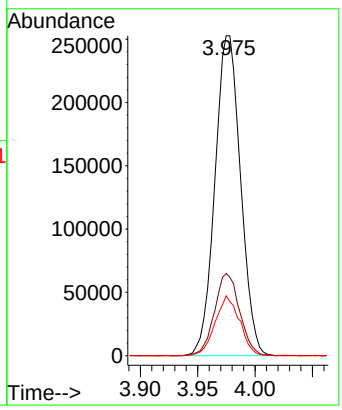




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:114 Resp: 39289

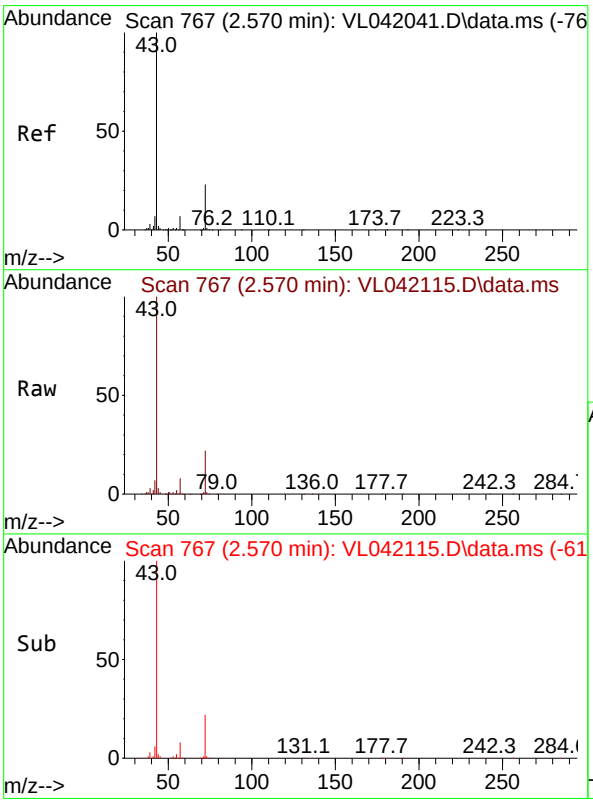
Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.1	30.1
88	17.8	14.3	21.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

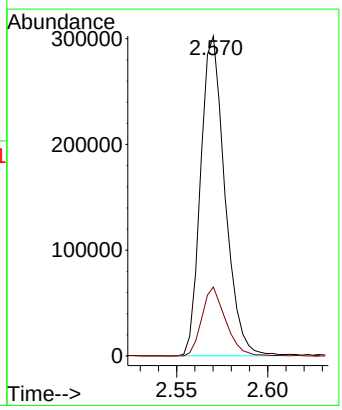
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

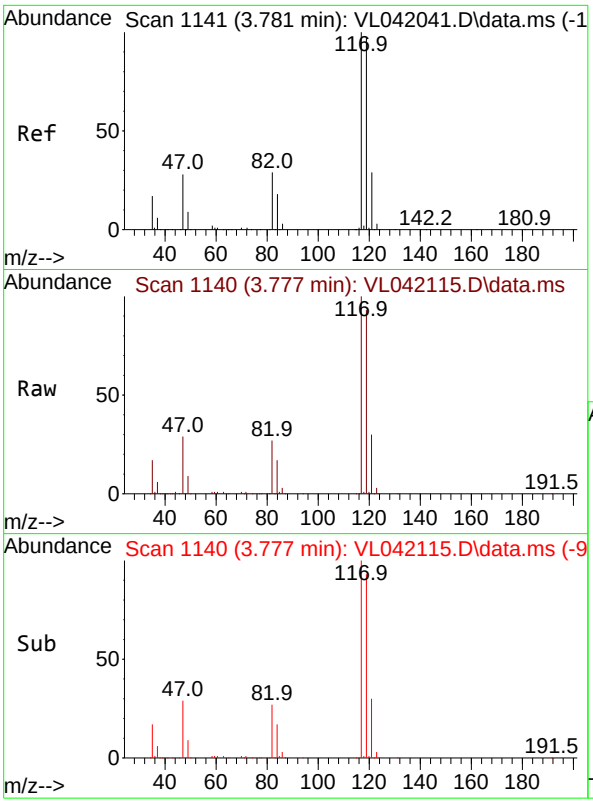


#34
2-Butanone
Concen: 9.161 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 43 Resp: 280396

Ion	Ratio	Lower	Upper
43	100		
72	21.2	18.5	27.7

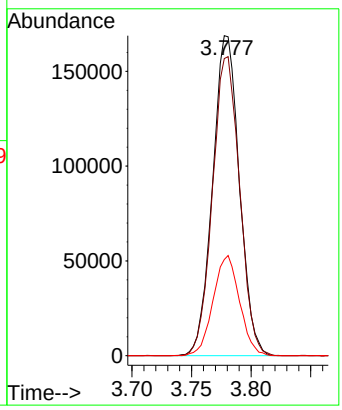




#35
Carbon Tetrachloride
Concen: 9.725 ppbv
RT: 3.777 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:117 Resp: 26347

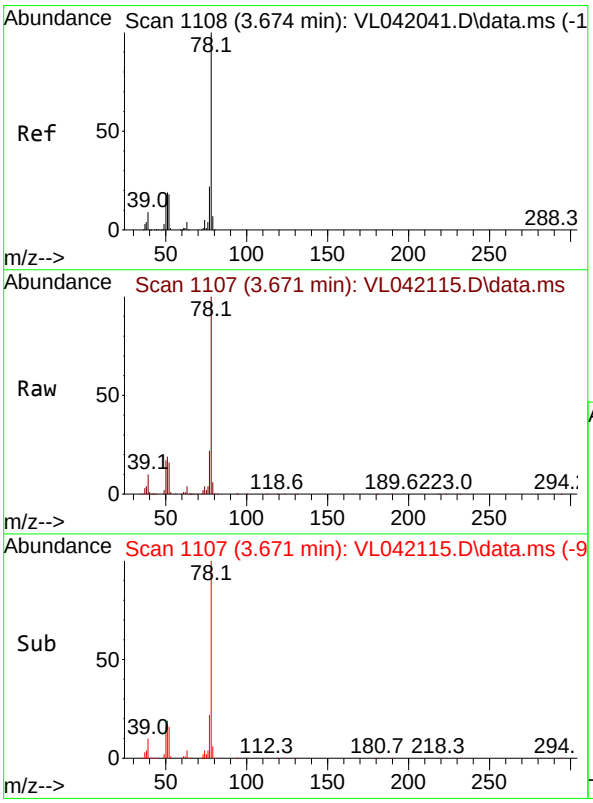
Ion	Ratio	Lower	Upper
117	100		
119	92.8	77.8	116.8
121	30.1	23.4	35.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

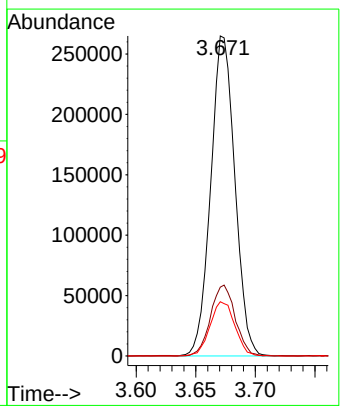
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

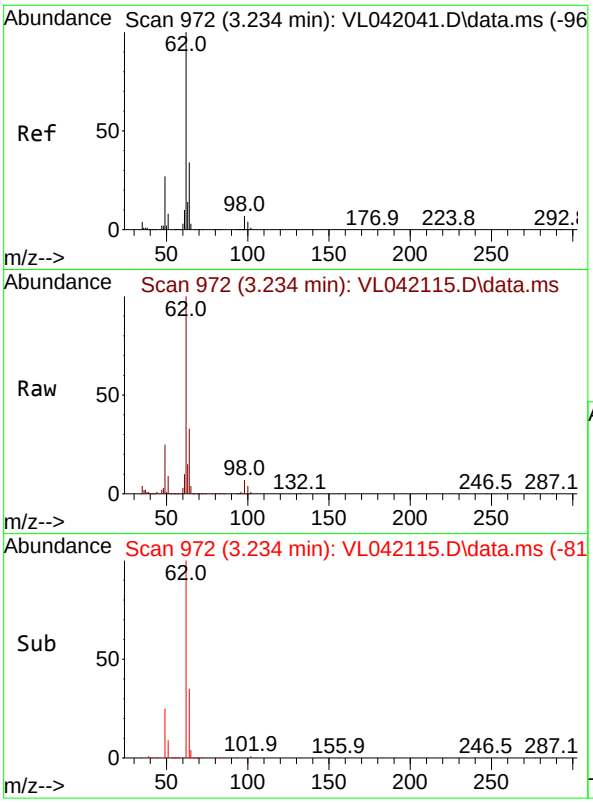


#36
Benzene
Concen: 9.084 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 78 Resp: 373628

Ion	Ratio	Lower	Upper
78	100		
77	21.5	17.7	26.5
50	17.0	13.9	20.9

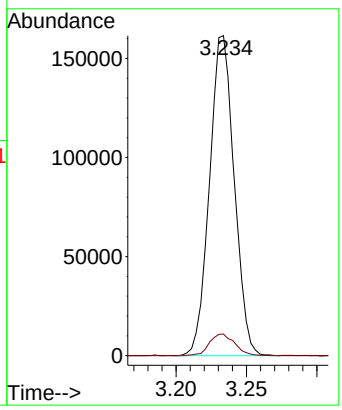




#37
1,2-Dichloroethane
Concen: 8.665 ppbv
RT: 3.234 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 62 Resp: 19759

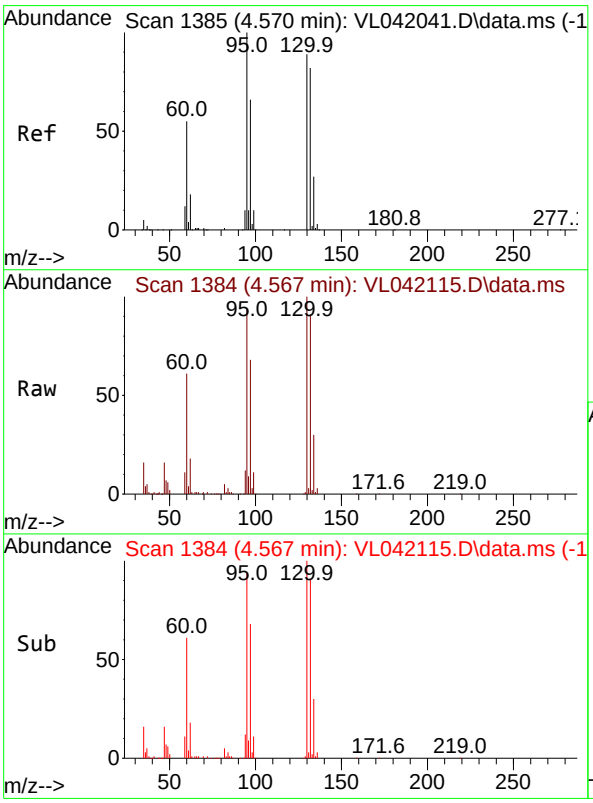
Ion	Ratio	Lower	Upper
62	100		
98	7.0	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

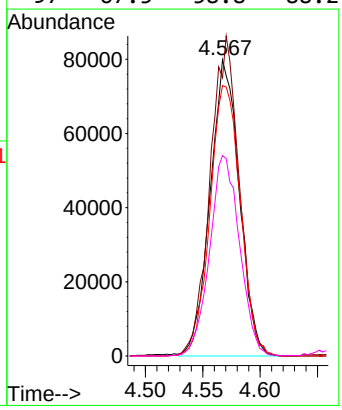
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

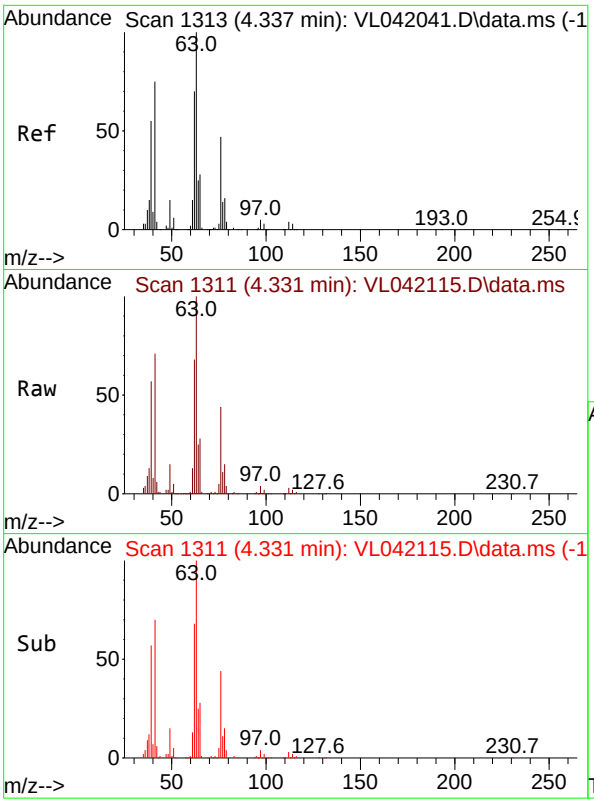


#38
Trichloroethene
Concen: 8.419 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:130 Resp: 141399

Ion	Ratio	Lower	Upper
130	100		
95	93.7	89.5	134.3
132	91.2	73.8	110.6
97	67.5	58.8	88.2

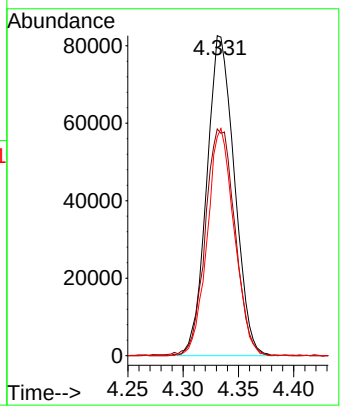




#39
1,2-Dichloropropane
Concen: 9.199 ppbv
RT: 4.331 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 63 Resp: 14360

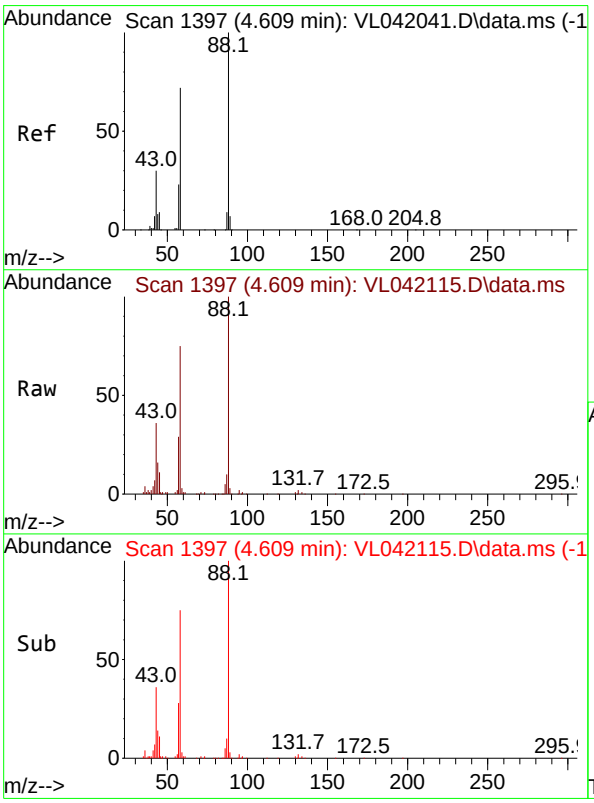
Ion	Ratio	Lower	Upper
63	100		
41	70.7	60.1	90.1
62	68.2	55.8	83.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

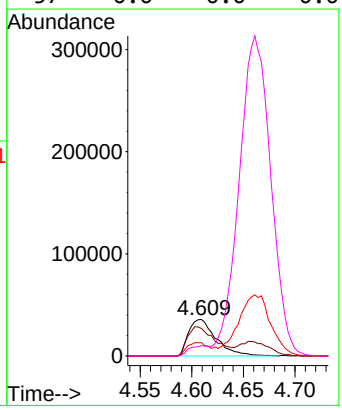
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

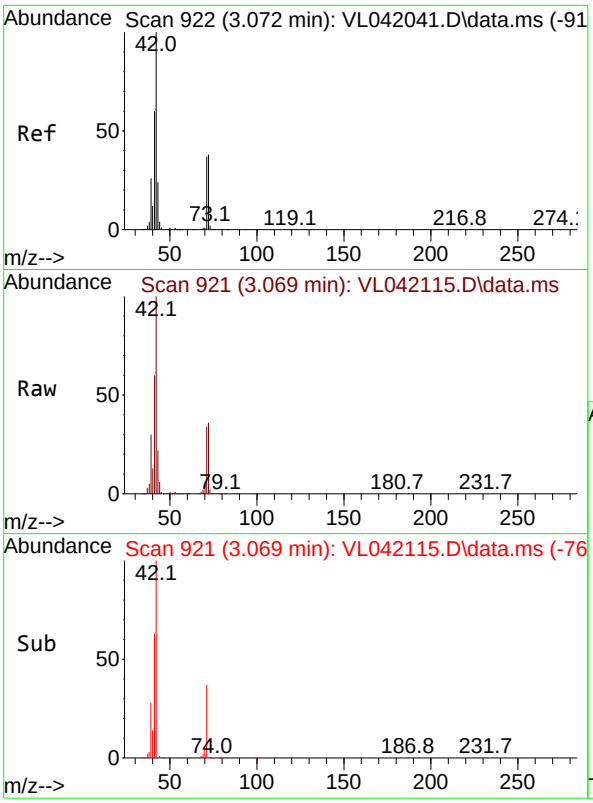


#40
1,4-Dioxane
Concen: 9.311 ppbv
RT: 4.609 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 88 Resp: 66354

Ion	Ratio	Lower	Upper
88	100		
58	80.5	62.6	94.0
43	28.7	0.0	0.0#
57	0.0	0.0	0.0

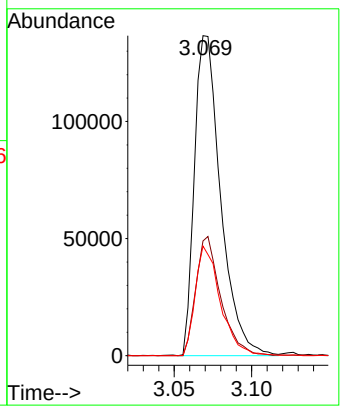




#41
Tetrahydrofuran
Concen: 8.893 ppbv
RT: 3.069 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 42 Resp: 16083

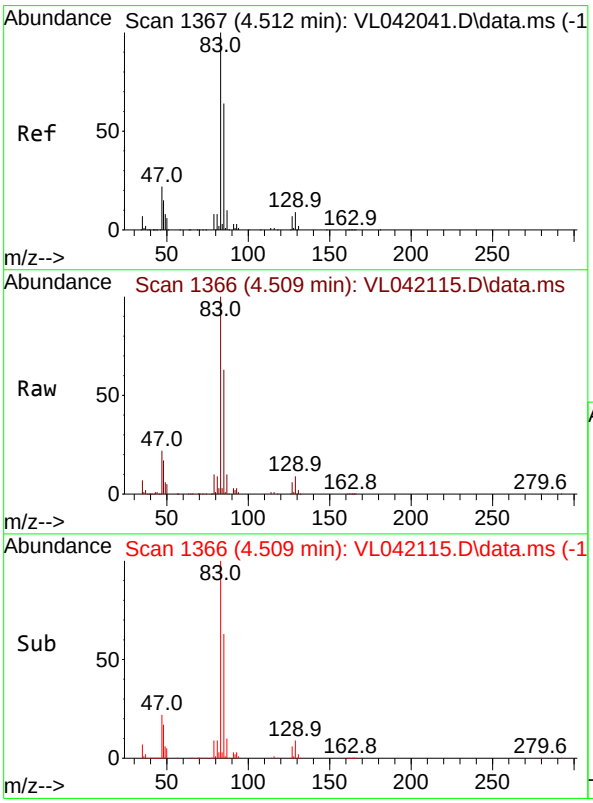
Ion	Ratio	Lower	Upper
42	100		
72	35.5	30.2	45.2
71	33.0	28.2	42.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

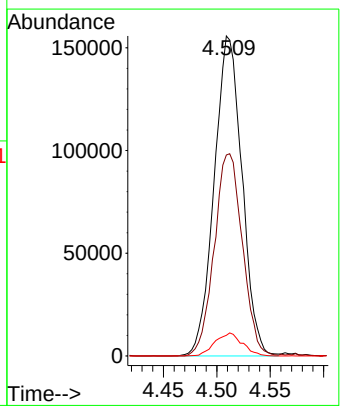
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

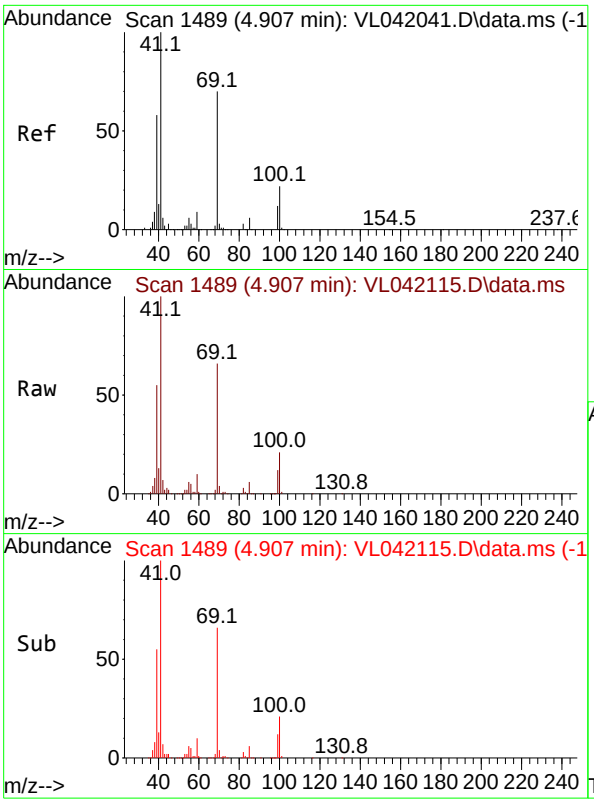


#42
Bromodichloromethane
Concen: 9.180 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 83 Resp: 282060

Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.4	77.2
127	6.5	5.8	8.6

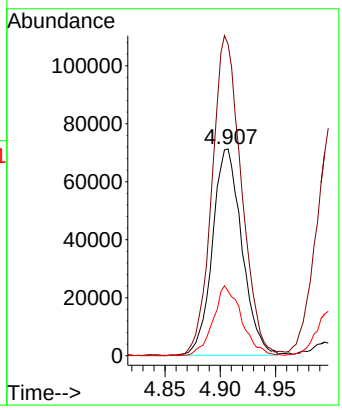




#43
Methyl Methacrylate
Concen: 8.207 ppbv
RT: 4.907 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 69 Resp: 13181

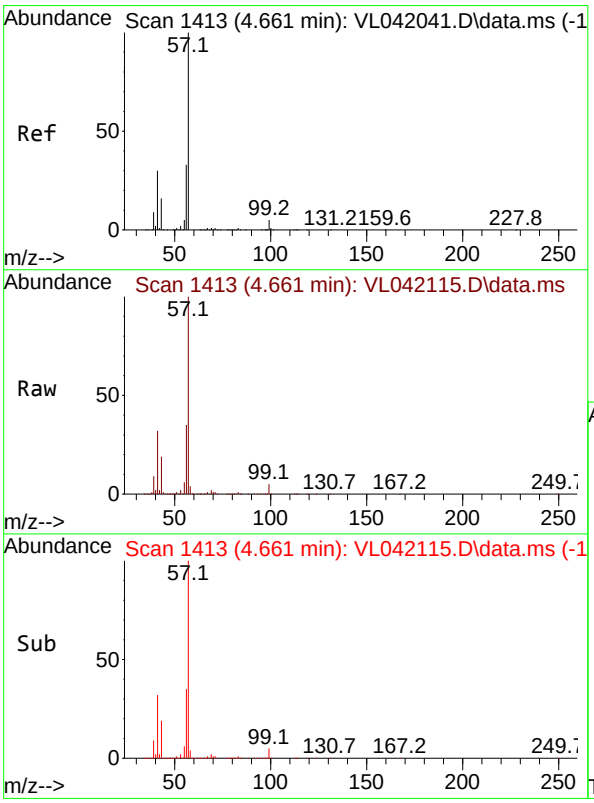
Ion	Ratio	Lower	Upper
69	100		
41	155.0	118.2	177.4
100	32.8	27.0	40.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

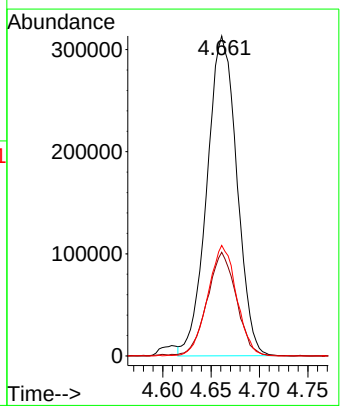
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

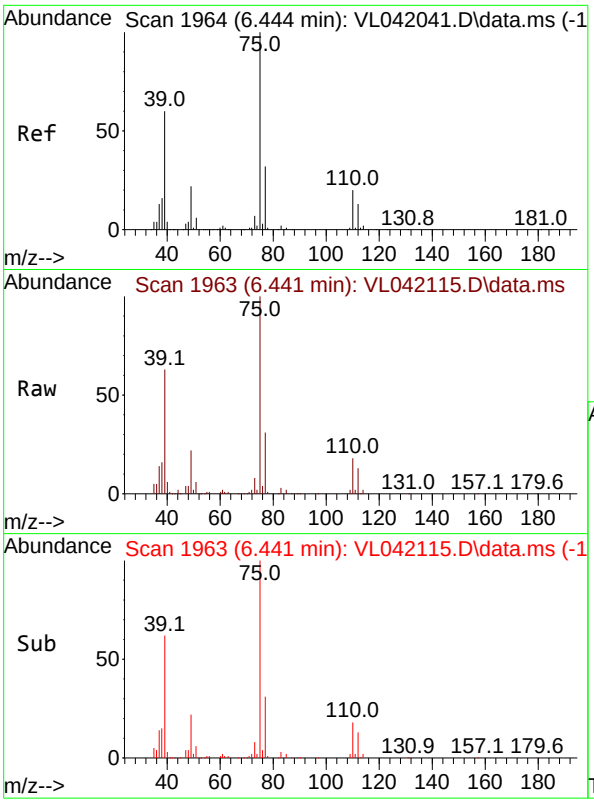


#44
2,2,4-Trimethylpentane
Concen: 9.271 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 57 Resp: 672958

Ion	Ratio	Lower	Upper
57	100		
41	32.1	24.4	36.6
56	33.4	26.5	39.7

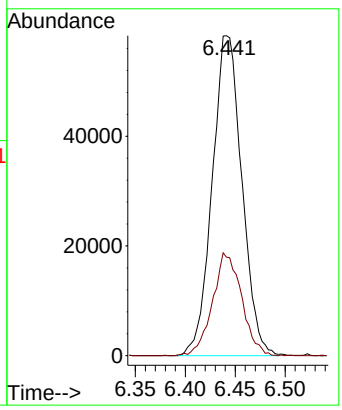




#45
t-1,3-Dichloropropene
Concen: 7.547 ppbv
RT: 6.441 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 75 Resp: 12044

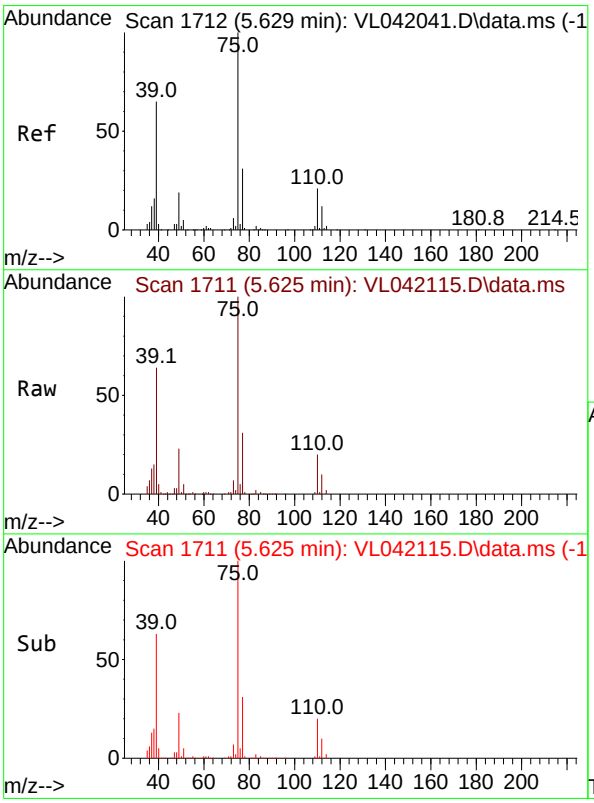
Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

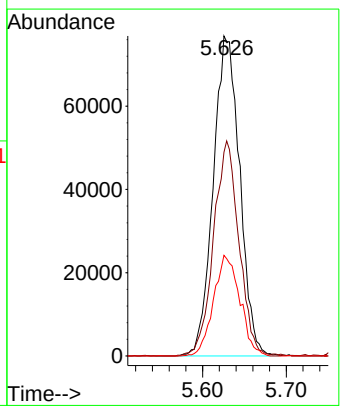
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

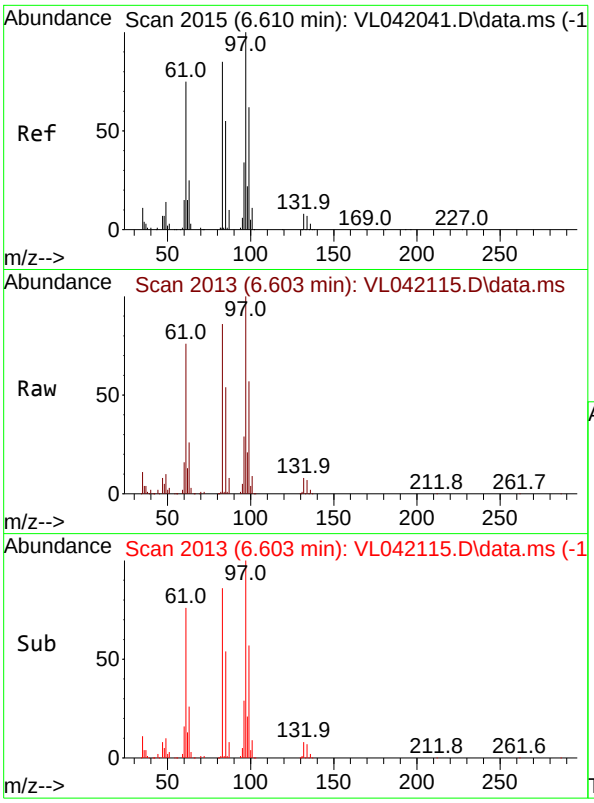


#46
cis-1,3-Dichloropropene
Concen: 8.174 ppbv
RT: 5.625 min Scan# 1711
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 75 Resp: 168796

Ion	Ratio	Lower	Upper
75	100		
39	63.4	51.9	77.9
77	31.4	24.9	37.3

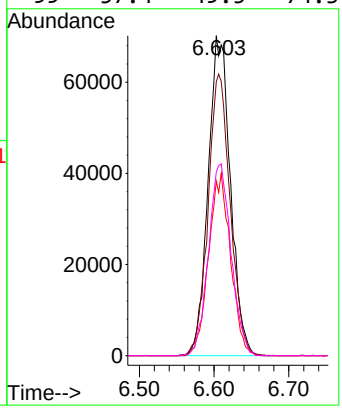




#47
1,1,2-Trichloroethane
Concen: 9.147 ppbv m
RT: 6.603 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 97 Resp: 14496

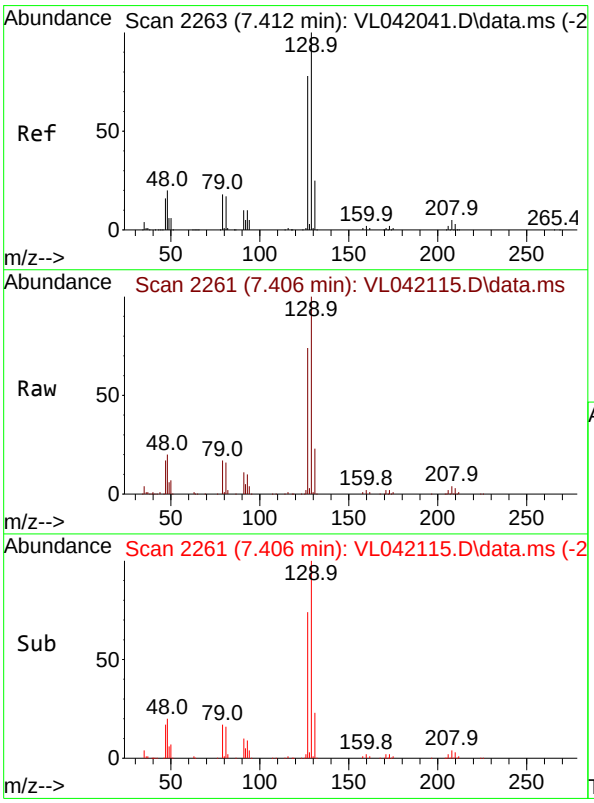
Ion	Ratio	Lower	Upper
97	100		
83	85.6	68.1	102.1
85	54.5	44.0	66.0
99	57.4	49.5	74.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

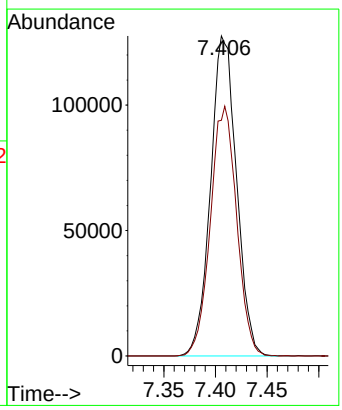
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

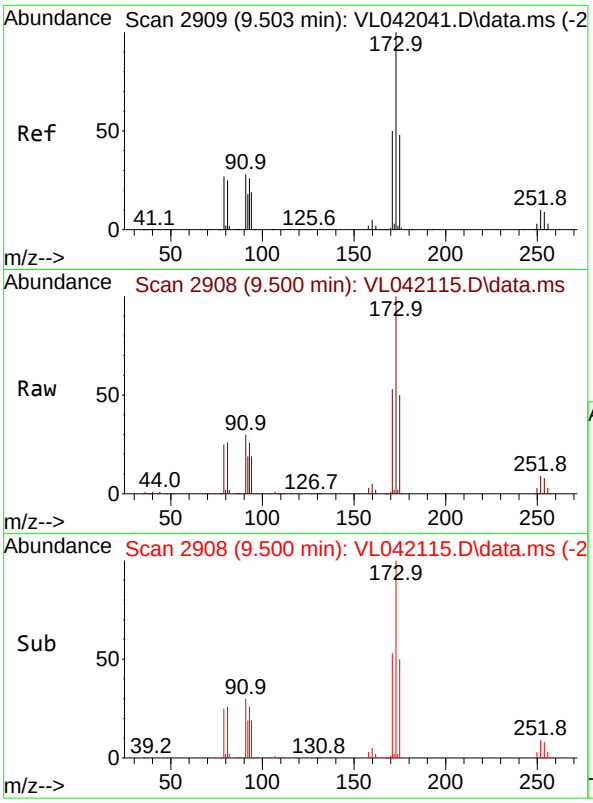


#48
Dibromochloromethane
Concen: 9.006 ppbv
RT: 7.406 min Scan# 2261
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:129 Resp: 223556

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.6	115.8

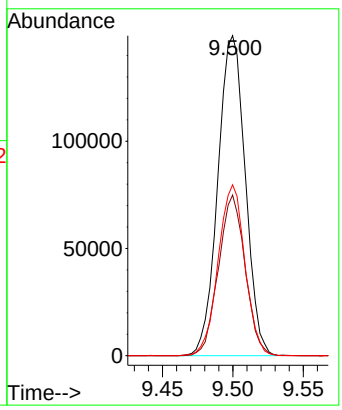




#49
Bromoform
Concen: 9.404 ppbv
RT: 9.500 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:173 Resp: 20271

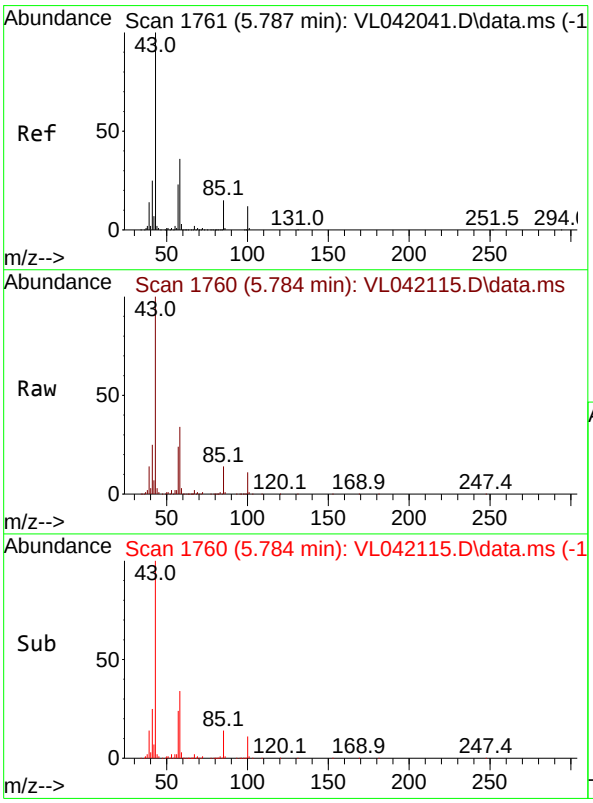
Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.3	57.5
171	52.1	40.2	60.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

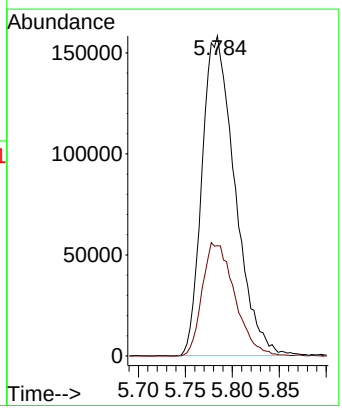
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

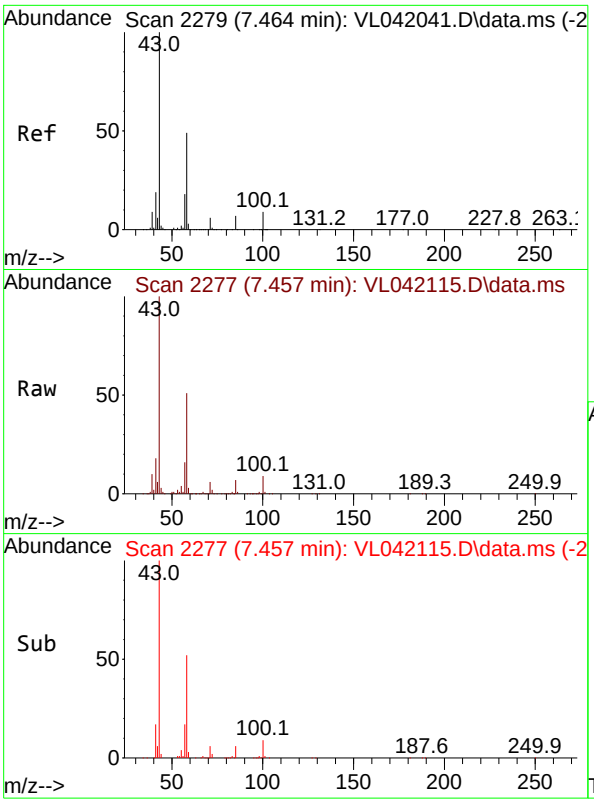


#50
4-Methyl-2-Pentanone
Concen: 9.703 ppbv
RT: 5.784 min Scan# 1760
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 43 Resp: 384115

Ion	Ratio	Lower	Upper
43	100		
58	35.2	29.3	43.9

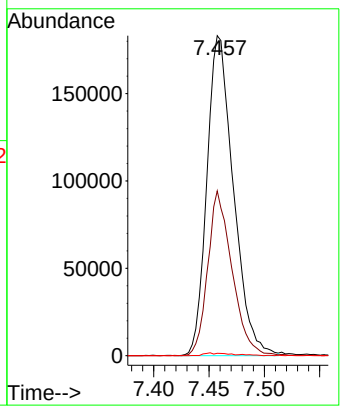




#51
2-Hexanone
Concen: 11.208 ppbv
RT: 7.457 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 43 Resp: 30537

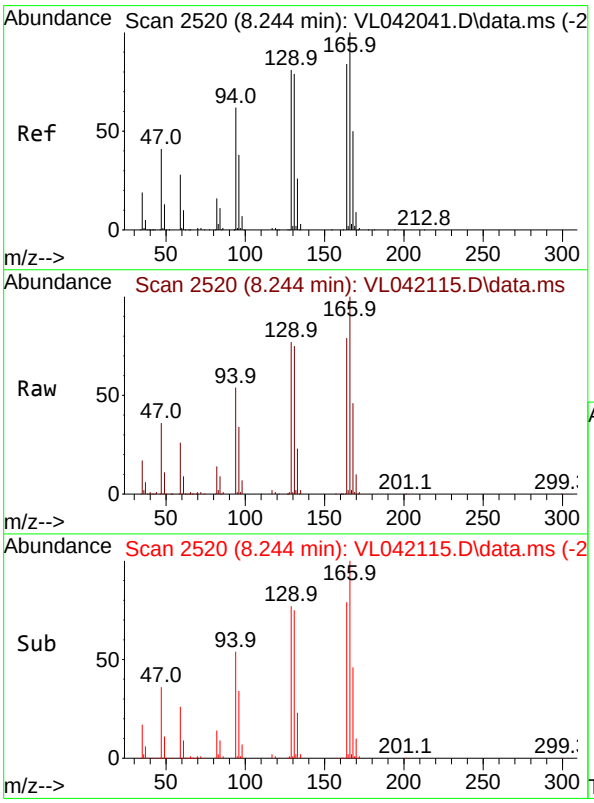
Ion	Ratio	Lower	Upper
43	100		
58	47.2	39.0	58.6
98	1.0	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

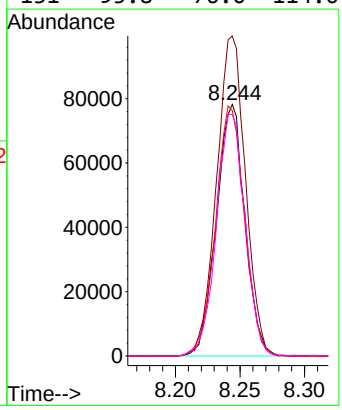
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

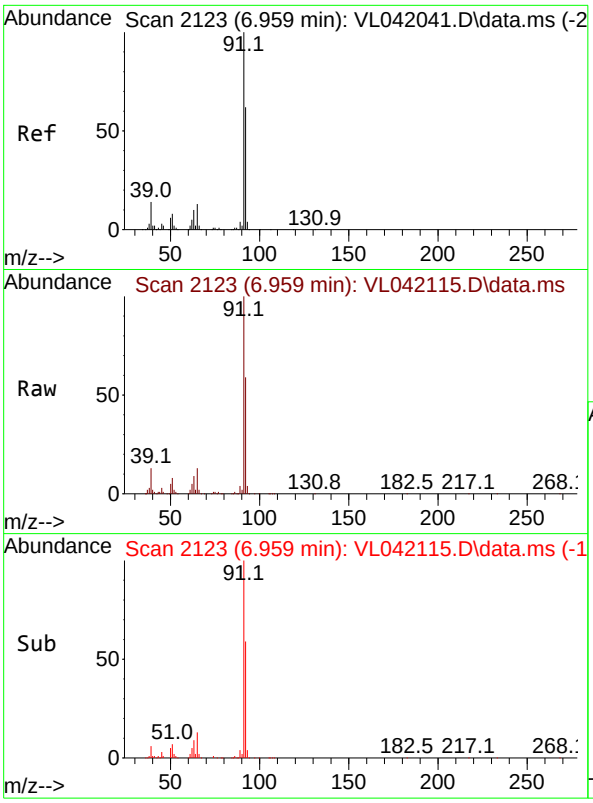


#52
Tetrachloroethene
Concen: 8.529 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:164 Resp: 120090

Ion	Ratio	Lower	Upper
164	100		
166	127.3	95.7	143.5
129	97.6	77.1	115.7
131	95.8	76.0	114.0

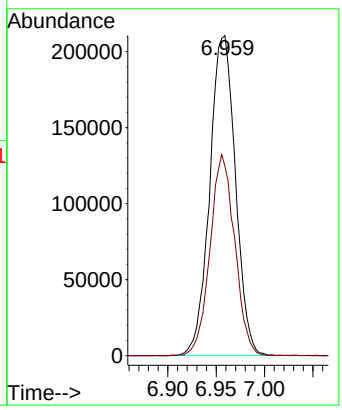




#53
Toluene
Concen: 8.453 ppbv
RT: 6.959 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 38857

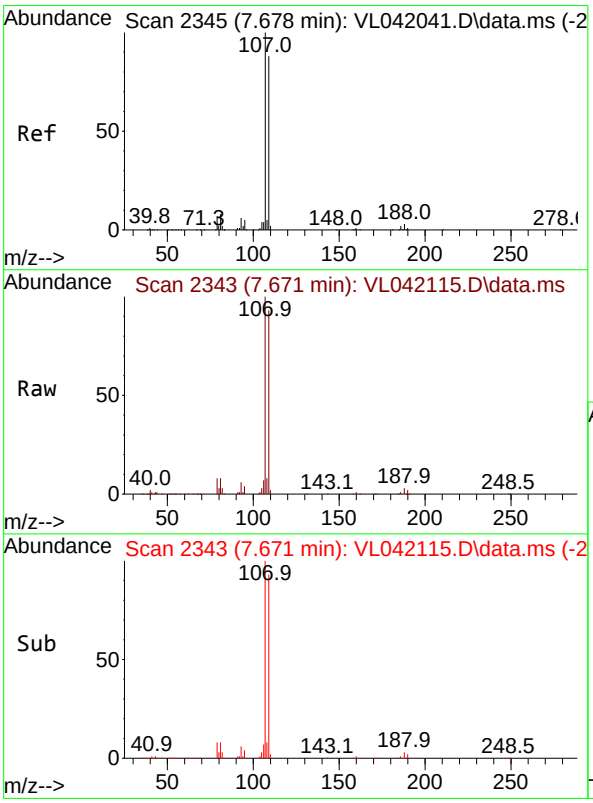
Ion	Ratio	Lower	Upper
91	100		
92	60.5	49.0	73.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

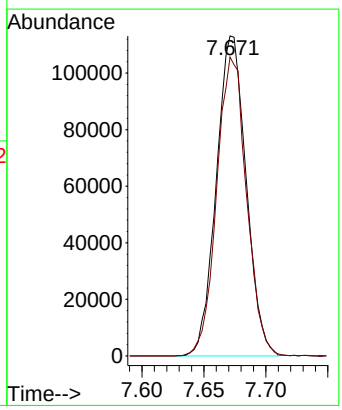
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

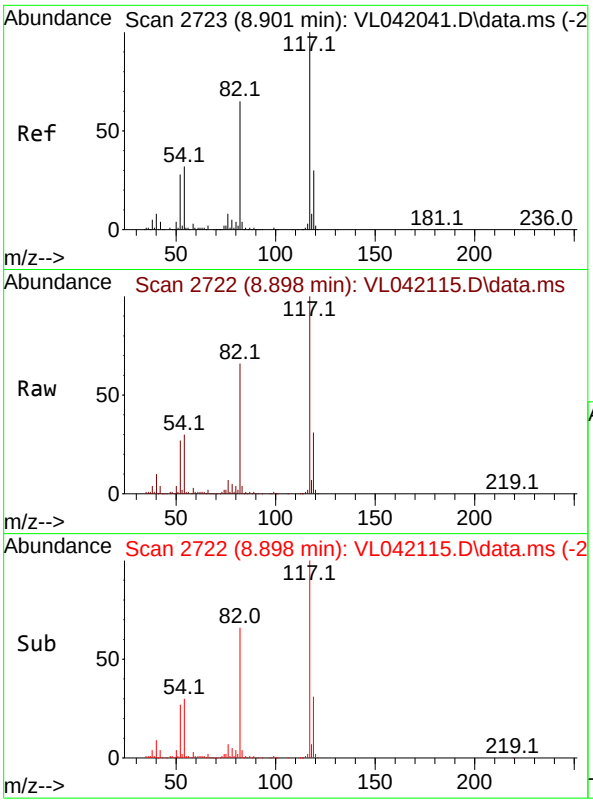


#54
1,2-Dibromoethane
Concen: 8.851 ppbv
RT: 7.671 min Scan# 2343
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:107 Resp: 189652

Ion	Ratio	Lower	Upper
107	100		
109	93.3	70.2	105.4

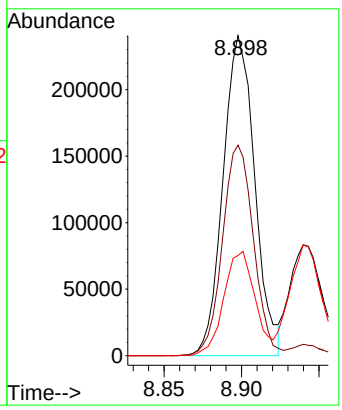




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:117 Resp: 34299

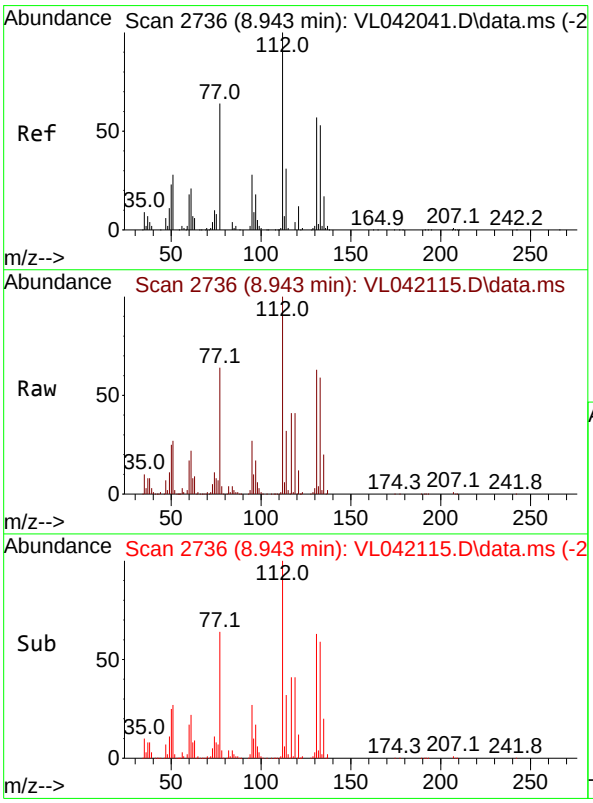
Ion	Ratio	Lower	Upper
117	100		
82	67.6	55.0	82.6
119	31.7	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

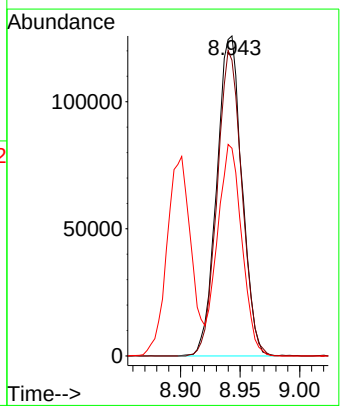
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

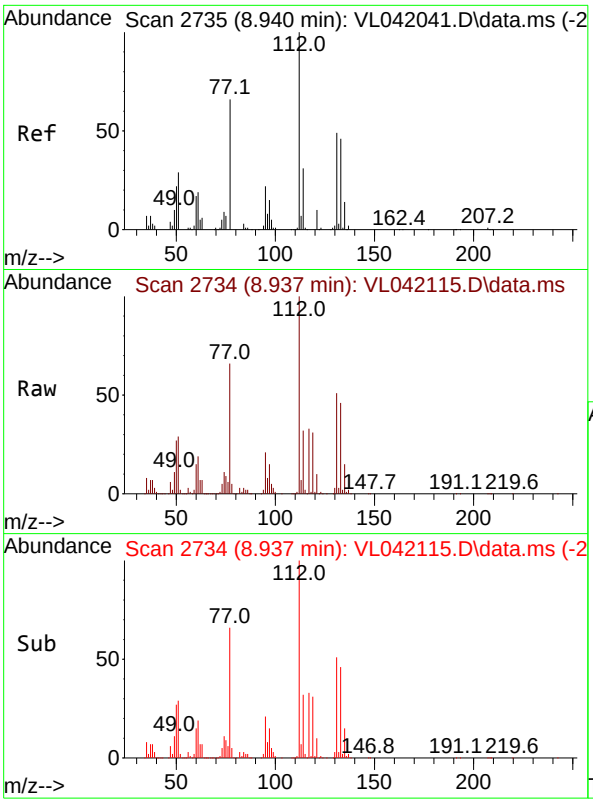


#56
1,1,1,2-Tetrachloroethane
Concen: 9.542 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:131 Resp: 184992

Ion	Ratio	Lower	Upper
131	100		
133	93.8	75.8	113.8
119	65.0	52.1	78.1

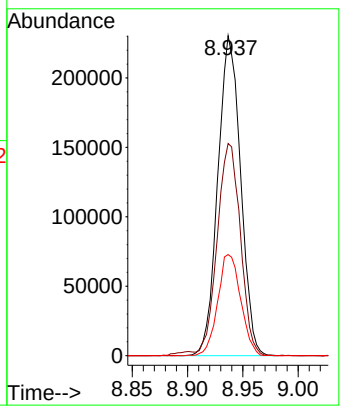




#57
Chlorobenzene
Concen: 9.281 ppbv
RT: 8.937 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:112 Resp: 33003

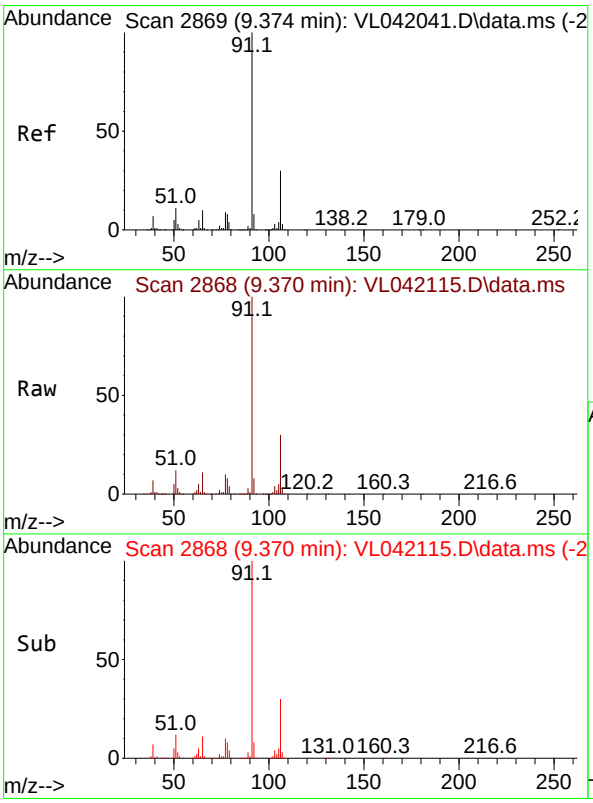
Ion	Ratio	Lower	Upper
112	100		
77	66.3	53.4	80.2
114	31.6	28.3	34.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

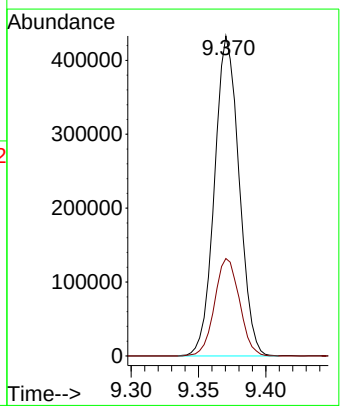
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

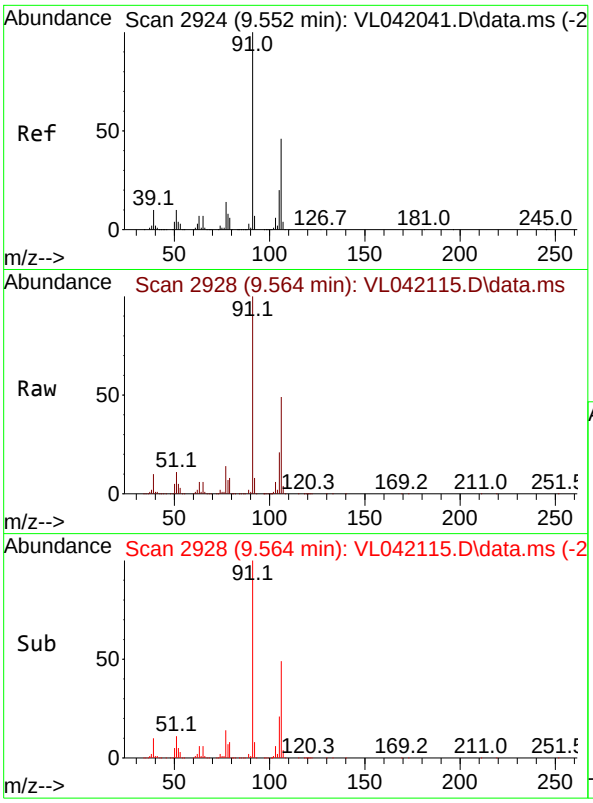


#58
Ethyl Benzene
Concen: 8.698 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 549396

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.2	36.2

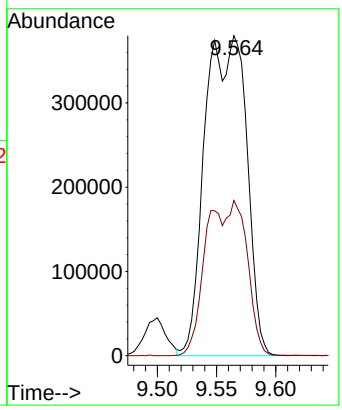




#59
m/p-Xylene
Concen: 18.509 ppbv m
RT: 9.564 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 93039

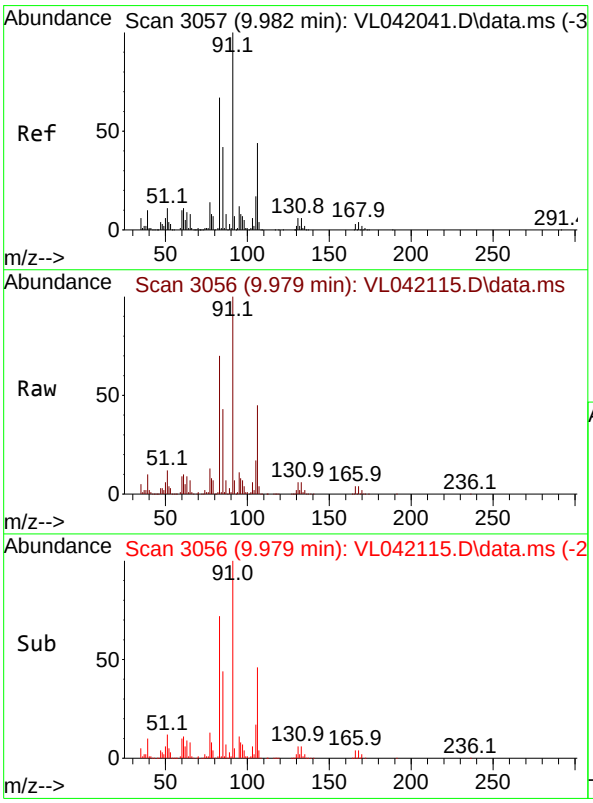
Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

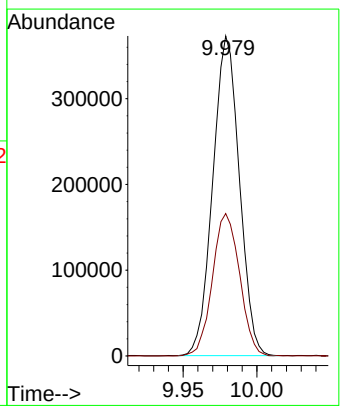
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

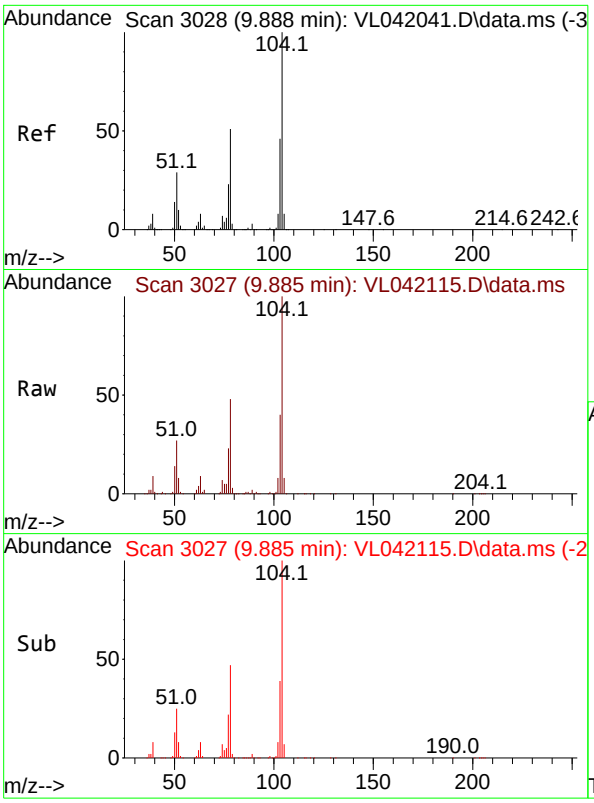


#60
o-Xylene
Concen: 9.232 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 466520

Ion	Ratio	Lower	Upper
91	100		
106	45.7	22.3	66.8

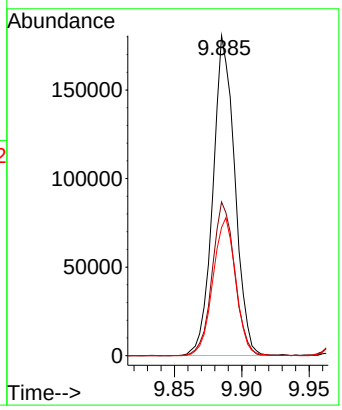




#61
Styrene
Concen: 8.590 ppbv
RT: 9.885 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:104 Resp: 20409

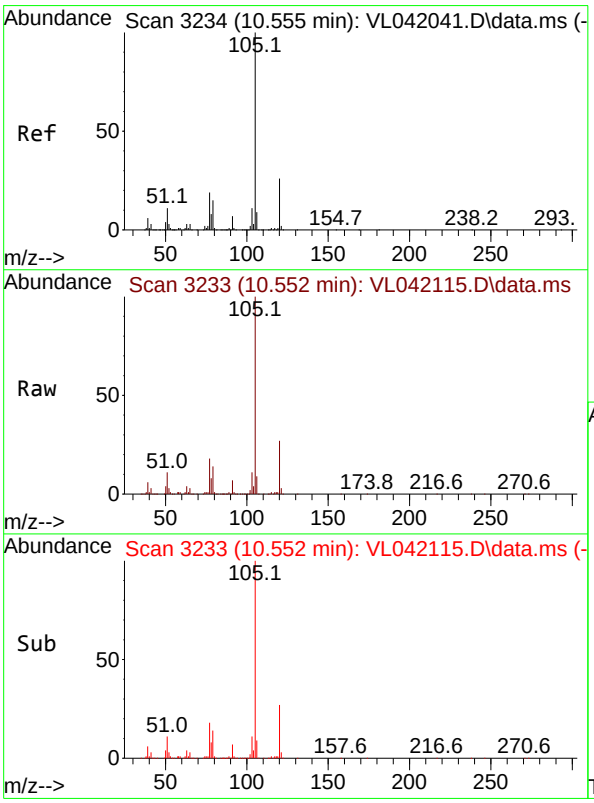
Ion	Ratio	Lower	Upper
104	100		
78	49.3	41.0	61.4
103	45.1	37.0	55.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

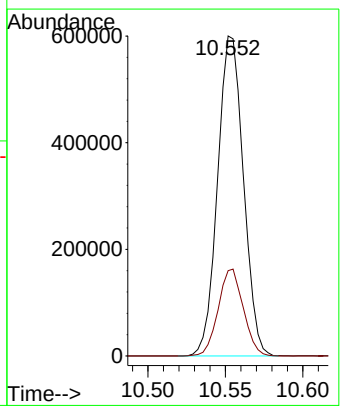
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

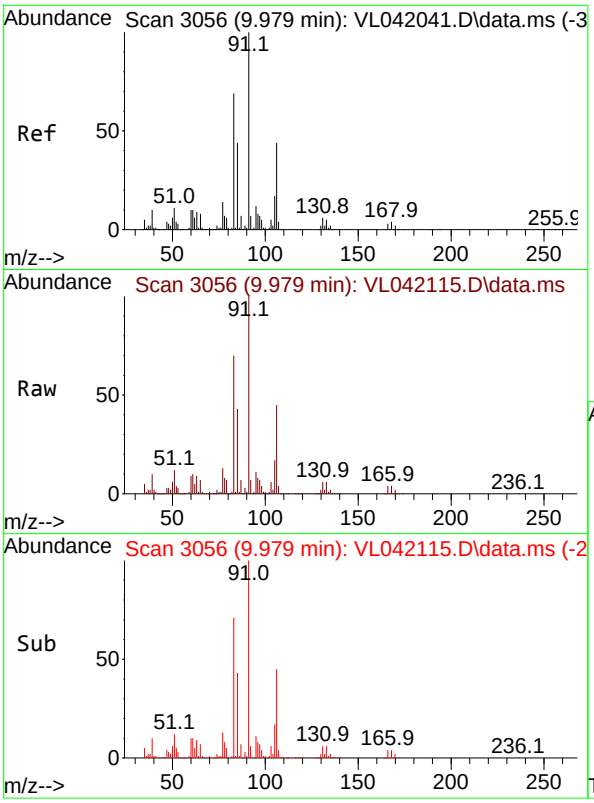


#62
Isopropylbenzene
Concen: 9.198 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:105 Resp: 696113

Ion	Ratio	Lower	Upper
105	100		
120	26.3	20.7	31.1

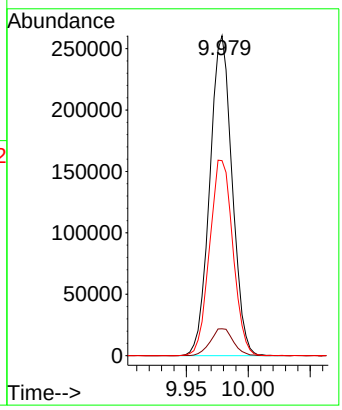




#63
1,1,2,2-Tetrachloroethane
Concen: 9.844 ppbv
RT: 9.979 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 83 Resp: 32760

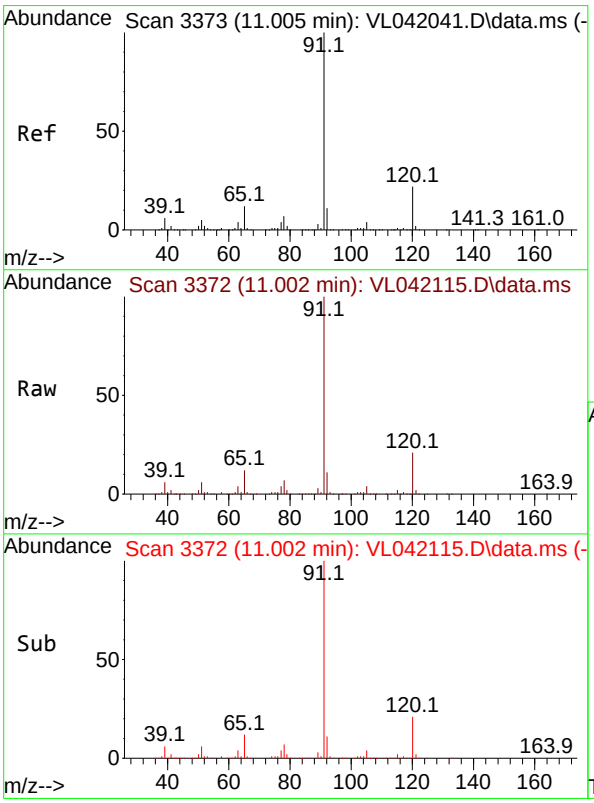
Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.5	13.7
85	63.8	32.1	96.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

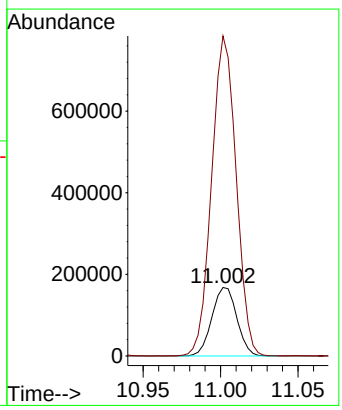
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

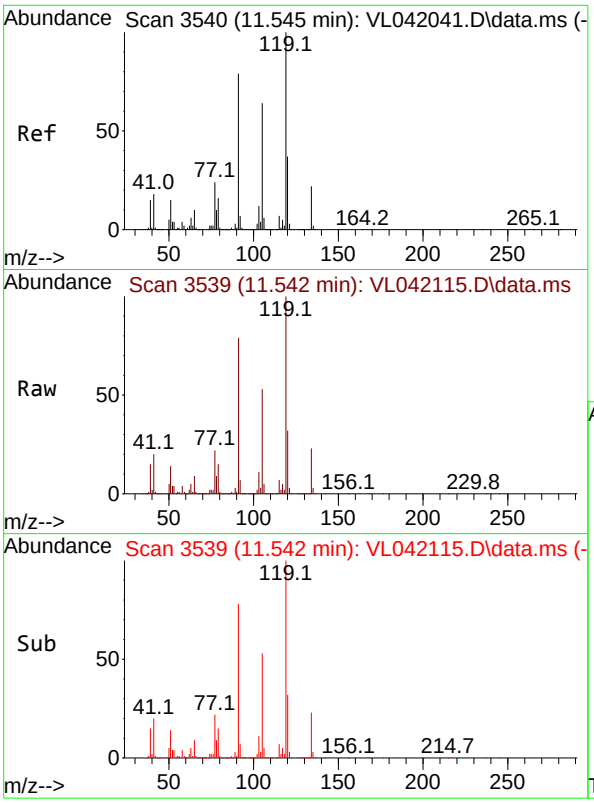


#64
n-propylbenzene
Concen: 9.455 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:120 Resp: 187705

Ion	Ratio	Lower	Upper
120	100		
91	459.8	370.6	556.0

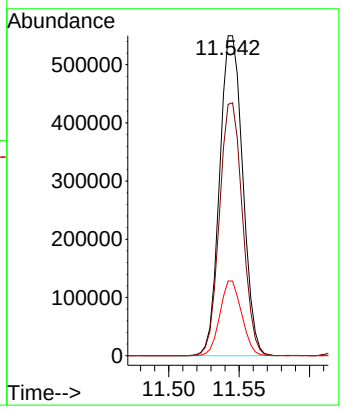




#65
tert-Butylbenzene
Concen: 9.108 ppbv
RT: 11.542 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:119 Resp: 62731

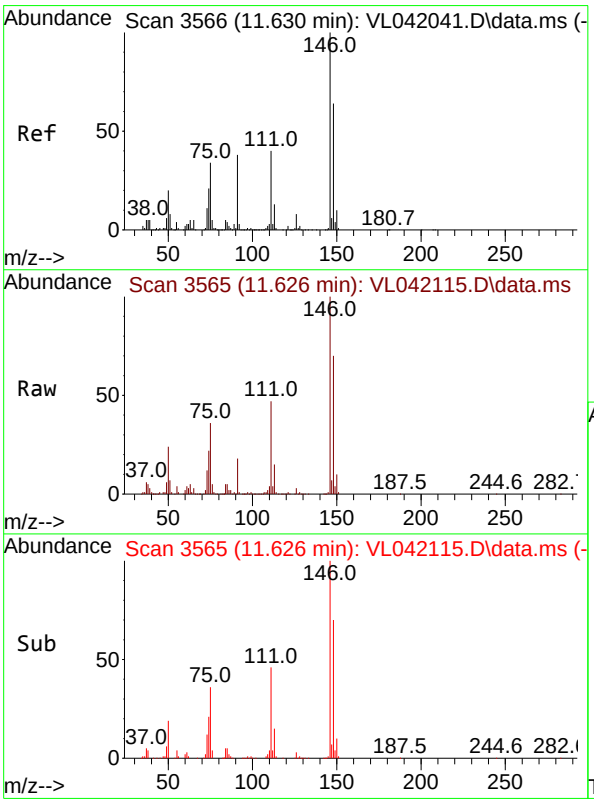
Ion	Ratio	Lower	Upper
119	100		
91	78.7	64.2	96.2
134	22.0	17.4	26.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

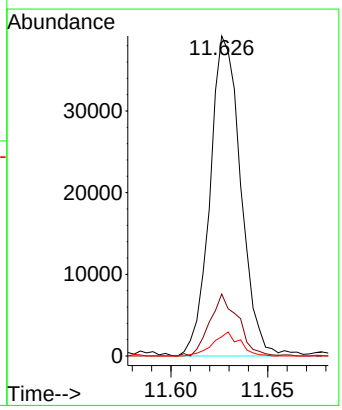
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

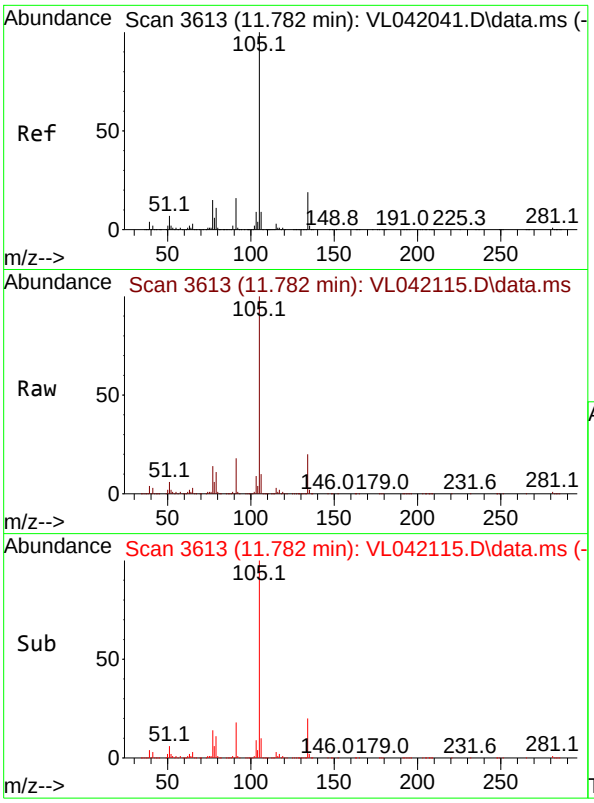


#66
Benzyl Chloride
Concen: 8.200 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 43097

Ion	Ratio	Lower	Upper
91	100		
126	18.1	14.5	21.7
128	6.5	5.4	8.2

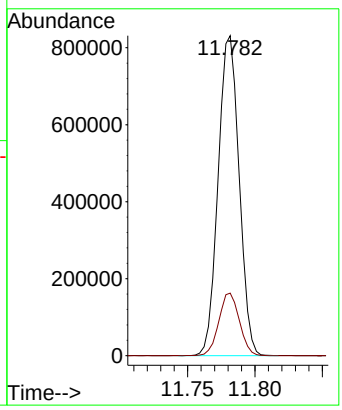




#67
sec-Butylbenzene
Concen: 9.132 ppbv
RT: 11.782 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:105 Resp: 89955

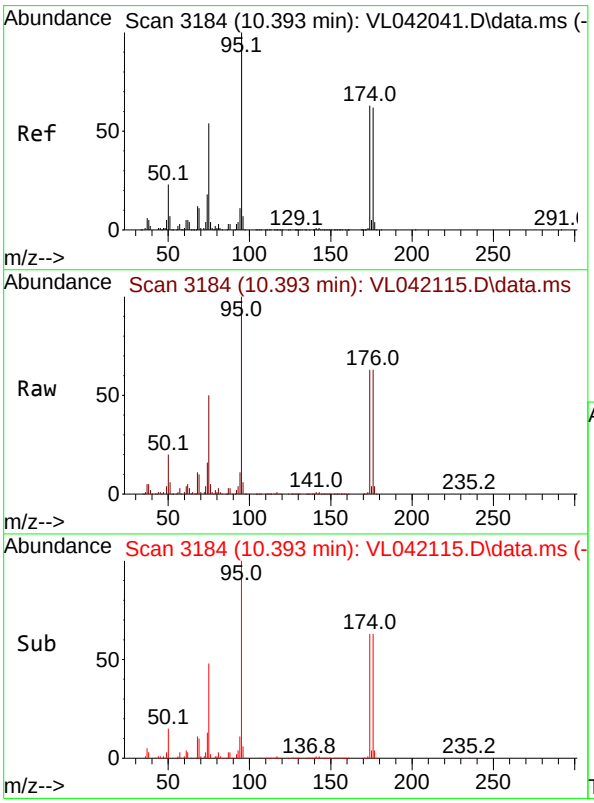
Ion	Ratio	Lower	Upper
105	100		
134	19.2	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

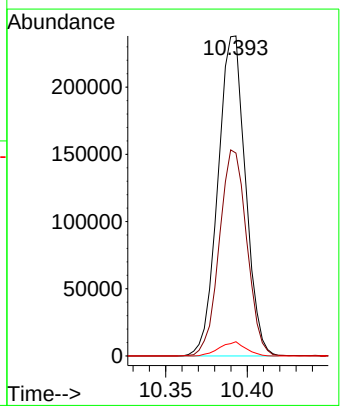
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

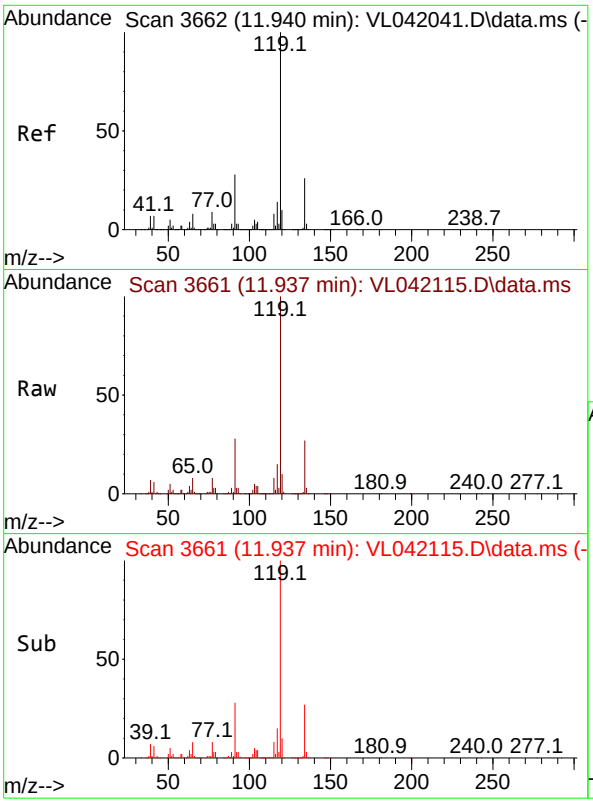


#68
1-Bromo-4-Fluorobenzene
Concen: 10.591 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 95 Resp: 279482

Ion	Ratio	Lower	Upper
95	100		
174	64.2	51.8	77.6
175	4.2	3.9	5.9

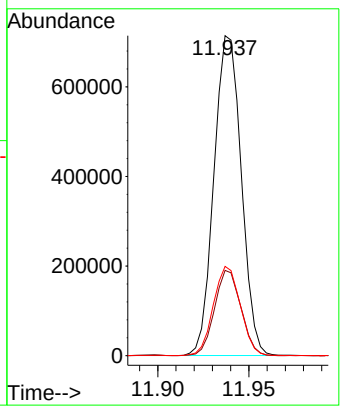




#69
p-Isopropyltoluene
Concen: 9.494 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:119 Resp: 74406

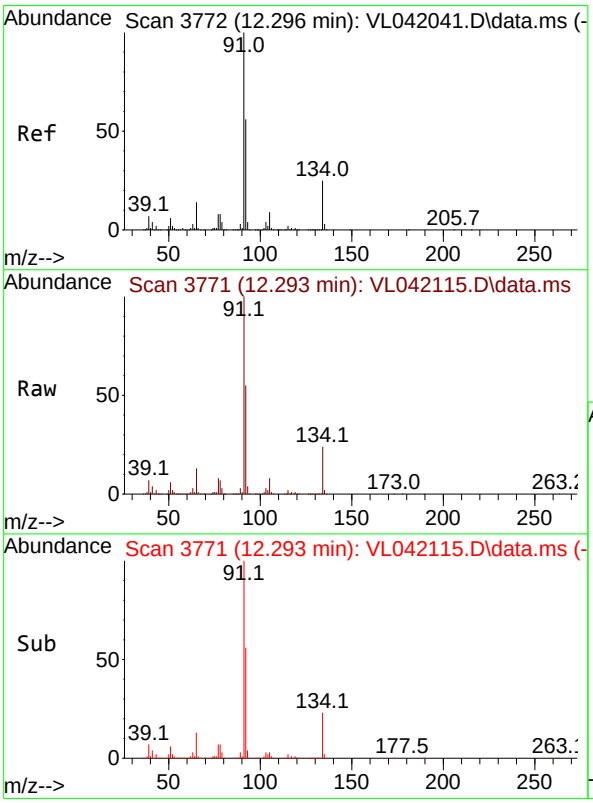
Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.9	31.3
91	27.7	23.1	34.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

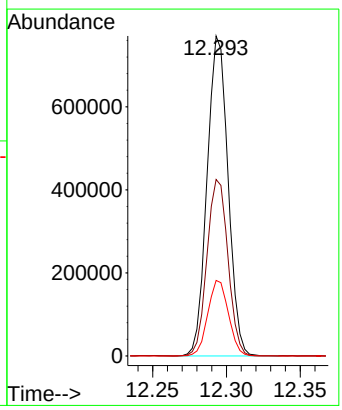
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

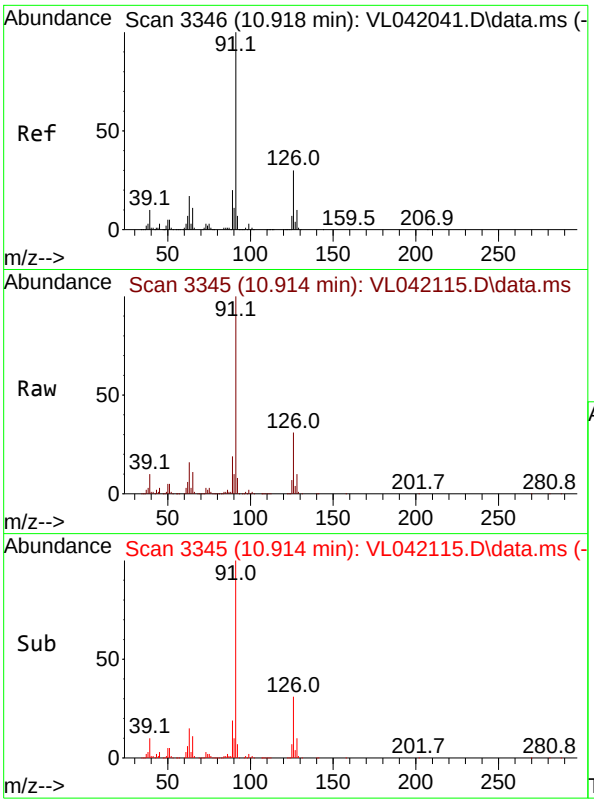


#70
n-Butylbenzene
Concen: 9.499 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 759905

Ion	Ratio	Lower	Upper
91	100		
92	55.4	44.7	67.1
134	23.3	18.9	28.3

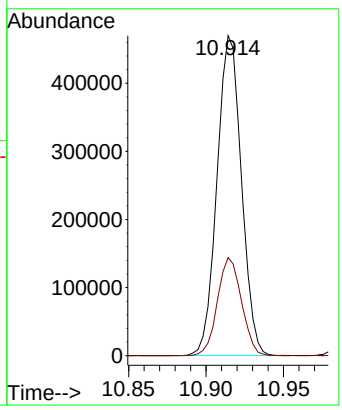




#71
2-Chlorotoluene
Concen: 8.834 ppbv
RT: 10.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 51537

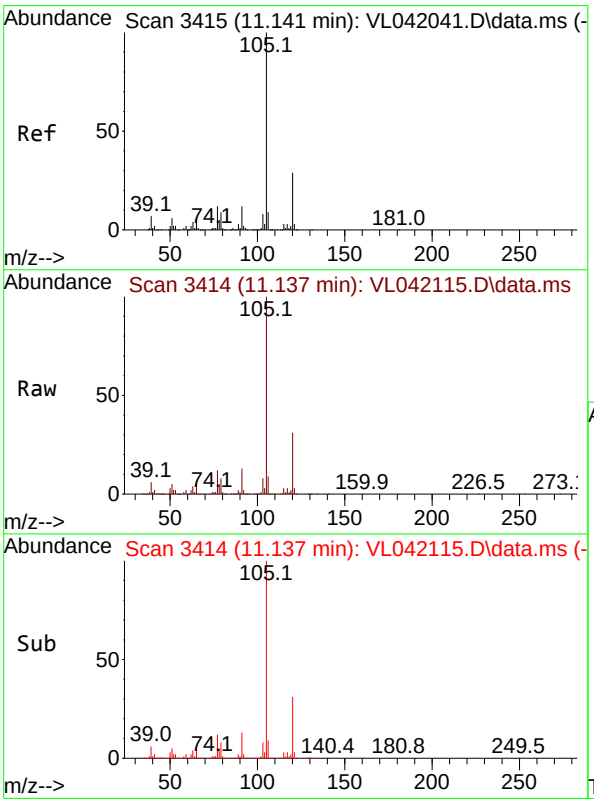
Ion	Ratio	Lower	Upper
91	100		
126	30.2	11.9	47.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

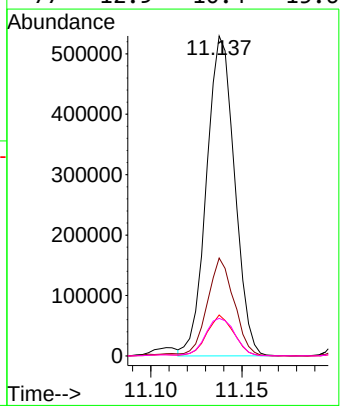
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

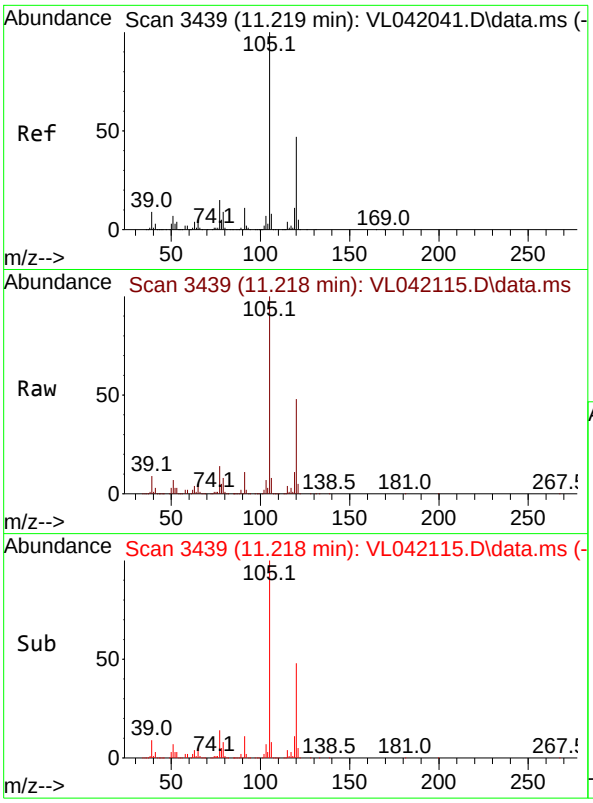


#72
4-Ethyltoluene
Concen: 9.179 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:105 Resp: 566348

Ion	Ratio	Lower	Upper
105	100		
120	29.8	24.1	36.1
91	12.5	10.2	15.4
77	12.9	10.4	15.6

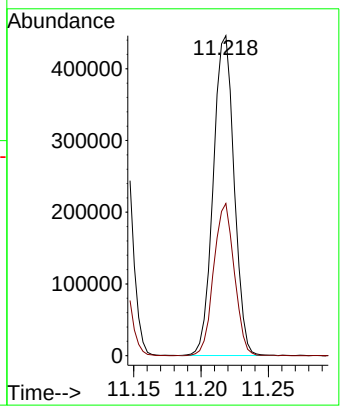




#73
1,3,5-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.218 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:105 Resp: 48040

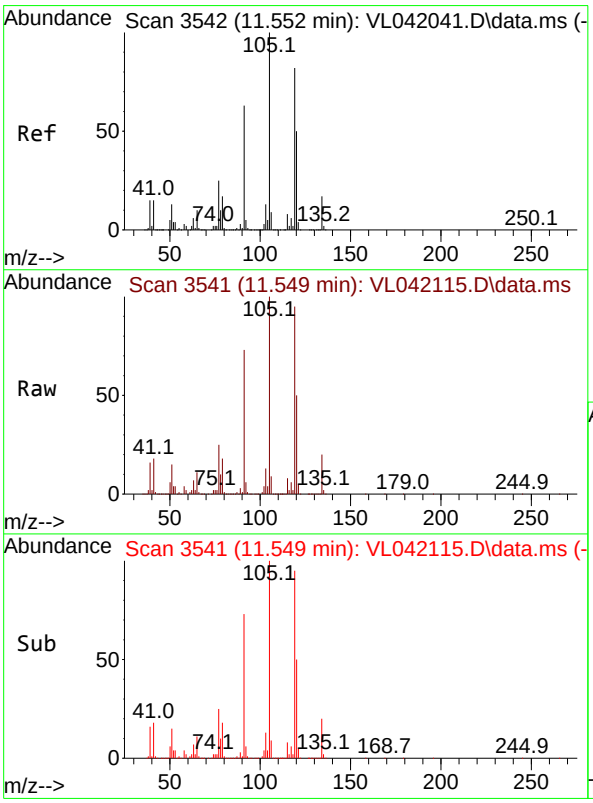
Ion	Ratio	Lower	Upper
105	100		
120	47.5	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

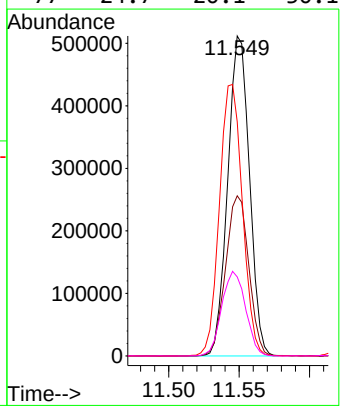
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

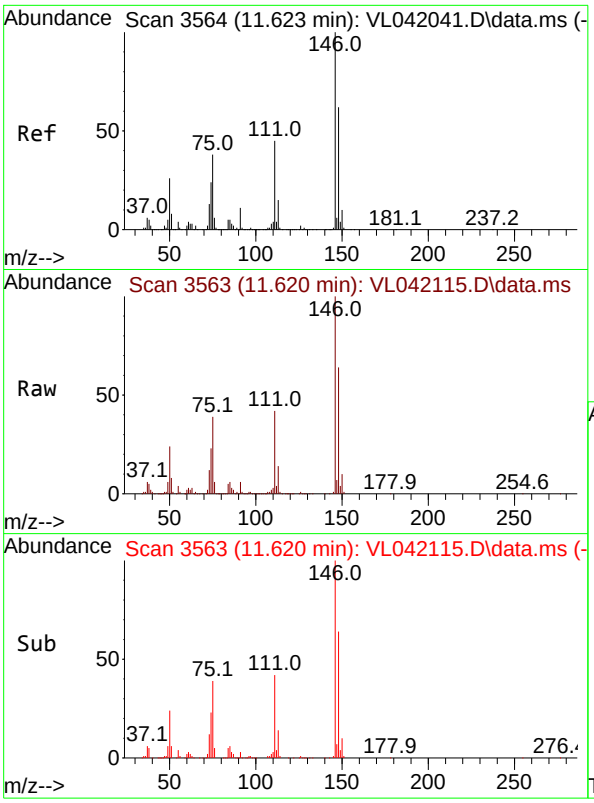


#74
1,2,4-Trimethylbenzene
Concen: 9.127 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:105 Resp: 550074

Ion	Ratio	Lower	Upper
105	100		
120	50.1	40.2	60.2
91	73.1	51.4	77.2
77	24.7	20.1	30.1

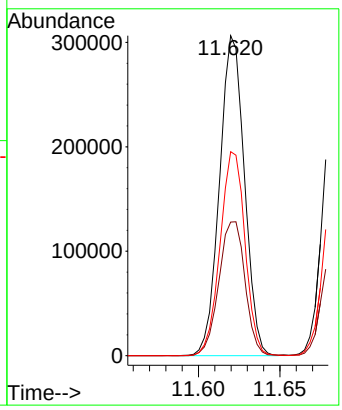




#75
1,3-Dichlorobenzene
Concen: 9.385 ppbv
RT: 11.620 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:146 Resp: 32551

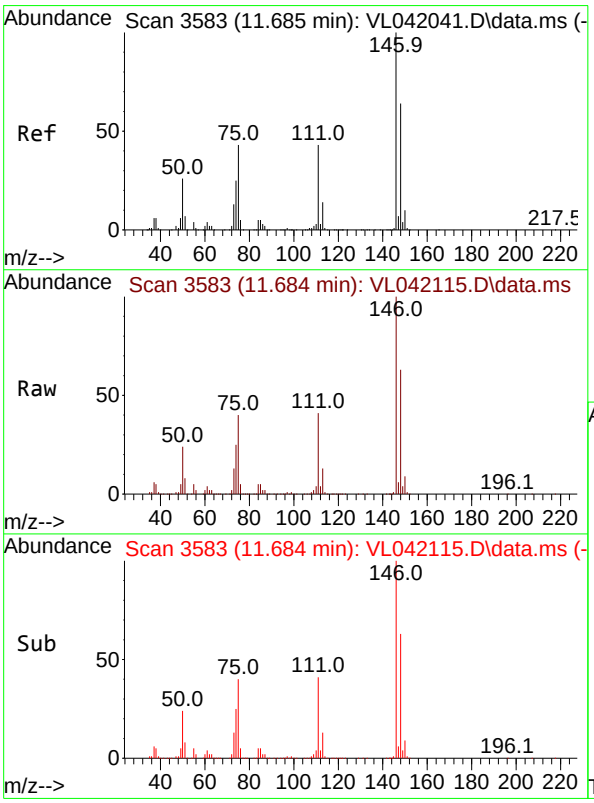
Ion	Ratio	Lower	Upper
146	100		
111	44.0	22.4	67.2
148	63.7	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

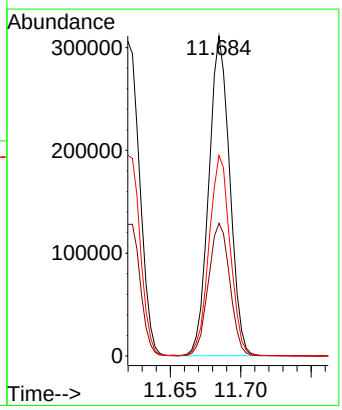
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

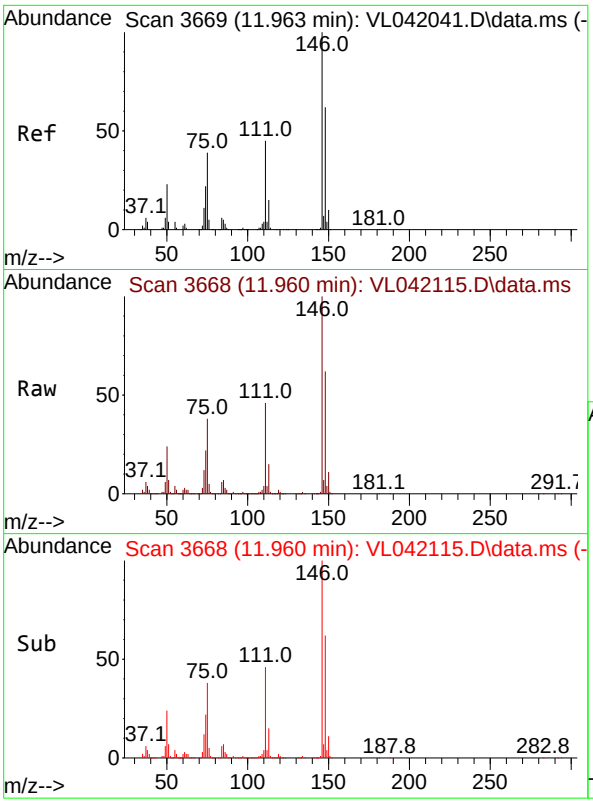


#76
1,4-Dichlorobenzene
Concen: 9.341 ppbv
RT: 11.684 min Scan# 3583
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:146 Resp: 321685

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.5	64.5
148	63.4	31.6	95.0

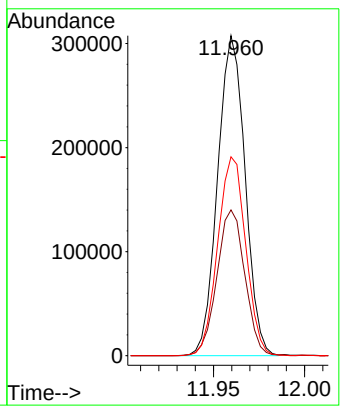




#77
1,2-Dichlorobenzene
Concen: 9.575 ppbv
RT: 11.960 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:146 Resp: 32230

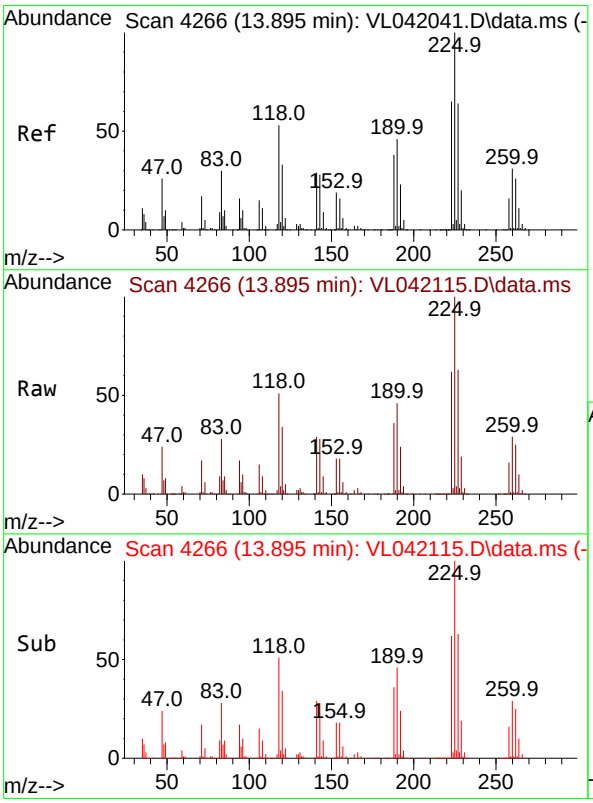
Ion	Ratio	Lower	Upper
146	100		
111	46.4	23.2	69.6
148	63.6	31.4	94.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

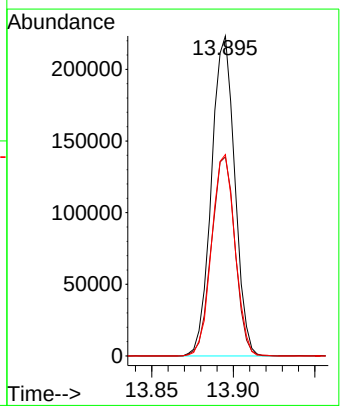
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

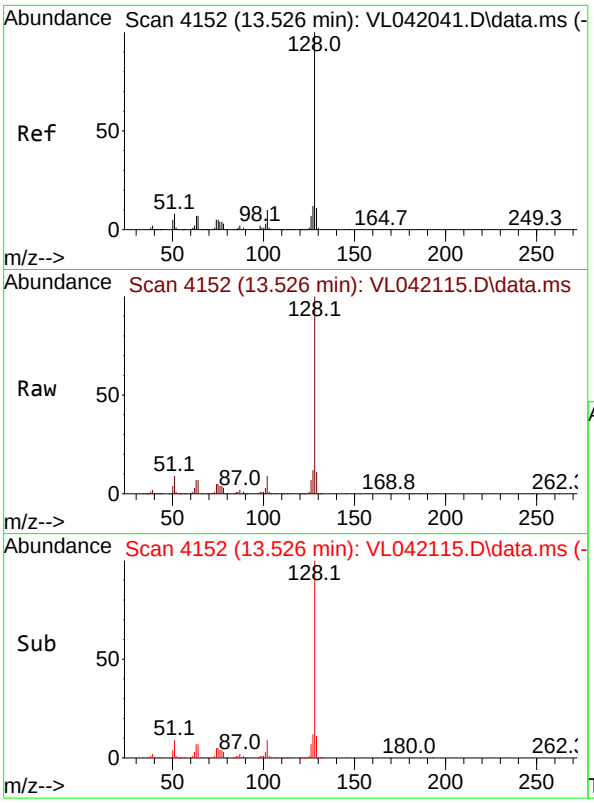


#78
Hexachloro-1,3-Butadiene
Concen: 8.449 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:225 Resp: 221283

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.2
227	63.1	50.8	76.2

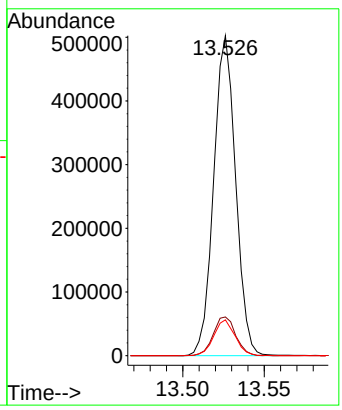




#79
Naphthalene
Concen: 11.379 ppbv
RT: 13.526 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:128 Resp: 47022

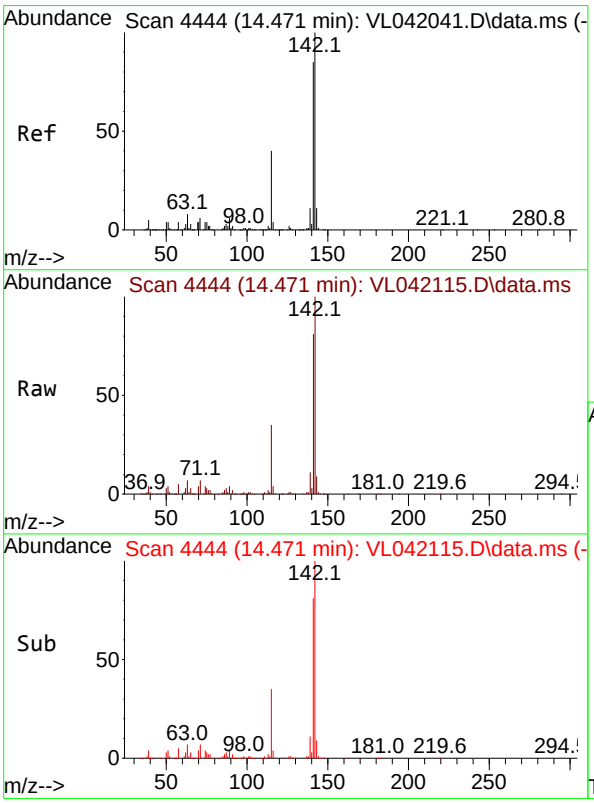
Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.8	14.6
129	11.2	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

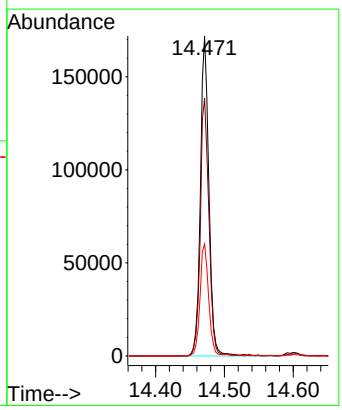
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

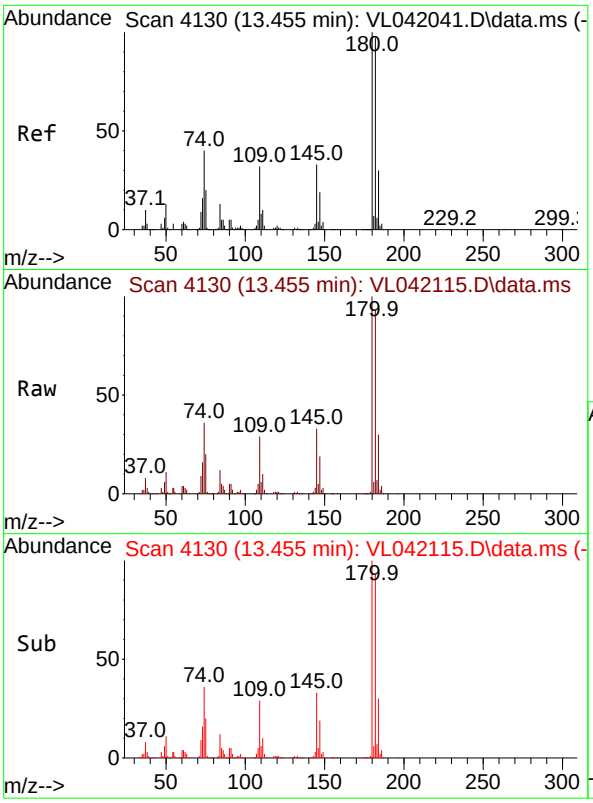


#80
Naphthalene,2-methyl-
Concen: 13.067 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:142 Resp: 147775

Ion	Ratio	Lower	Upper
142	100		
141	81.6	65.8	98.6
115	36.0	29.5	44.3

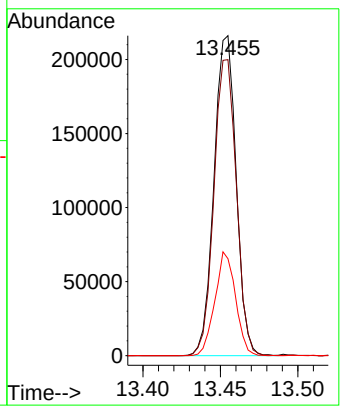




#81
1,2,4-Trichlorobenzene
Concen: 9.311 ppbv
RT: 13.455 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:180 Resp: 21442

Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.1	112.7
184	30.4	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042115.D
Acq On : 10 Mar 2025 09:08
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	1.040	1.070	-2.9	116	0.00
3		Chlorodifluoromethane	1.453	1.300	10.5	102	0.00
4		Chloromethane	0.385	0.403	-4.7	120	0.00
5	T	Vinyl Chloride	0.364	0.383	-5.2	117	0.00
6	T	Bromomethane	0.173	0.189	-9.2	121	0.00
7		Chloroethane	0.148	0.155	-4.7	118	0.00
8	T	Dichlorotetrafluoroethane	0.855	0.904	-5.7	119	0.00
9	T	Propene	0.592	0.514	13.2	101	0.00
10	T	Heptane	1.844	1.519	17.6	94	0.00
11	T	Trichlorofluoromethane	1.042	1.130	-8.4	123	0.00
12	T	1,1,2-Trichlorotrifluoroeth	0.831	0.819	1.4	120	0.00
13		Ethanol	0.038	0.028#	26.3	144	0.00
14	T	Bromoethene	0.293	0.300	-2.4	117	0.00
15	T	Acetone	0.883	0.868	1.7	124	0.00
16	T	1,3-Butadiene	0.411	0.422	-2.7	121	0.00
17		tert-Butyl alcohol	1.105	0.968	12.4	104	0.00
18	T	1,1-Dichloroethene	0.376	0.364	3.2	117	0.00
19	T	Isopropyl Alcohol	0.507	0.489	3.6	120	0.00
20	T	Methylene Chloride	0.334	0.333	0.3	131	0.00
21	T	Allyl Chloride	0.638	0.625	2.0	119	0.00
22	T	trans-1,2-Dichloroethene	0.438	0.436	0.5	125	0.00
23	T	Vinyl Acetate	0.621	0.457	26.4	90	0.00
24	T	1,1-Dichloroethane	0.815	0.843	-3.4	129	0.00
25	T	Ethyl Acetate	3.535	3.053	13.6	99	0.00
26	T	Hexane	1.429	1.213	15.1	97	0.00
27	T	Carbon Disulfide	0.969	0.976	-0.7	117	0.00
28	T	Methyl tert-Butyl Ether	0.711	0.754	-6.0	148	0.00
29	T	Chloroform	1.923	1.687	12.3	100	0.00
30	T	Cyclohexane	1.160	0.936	19.3	89	0.00
31	T	cis-1,2-Dichloroethene	1.353	1.052	22.2	87	0.00
32	T	1,1,1-Trichloroethane	1.866	1.485	20.4	86	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34	T	2-Butanone	0.779	0.714	8.3	96	0.00
35	T	Carbon Tetrachloride	0.690	0.671	2.8	95	0.00
36	T	Benzene	1.047	0.951	9.2	91	0.00
37	T	1,2-Dichloroethane	0.580	0.503	13.3	90	0.00
38	T	Trichloroethene	0.427	0.360	15.7	88	0.00
39	T	1,2-Dichloropropane	0.397	0.366	7.8	95	0.00
40	T	1,4-Dioxane	0.181	0.169	6.6	96	0.00
41	T	Tetrahydrofuran	0.460	0.409	11.1	91	0.00
42	T	Bromodichloromethane	0.782	0.718	8.2	90	0.00
43		Methyl Methacrylate	0.409	0.336	17.8	80	0.00
44	T	2,2,4-Trimethylpentane	1.848	1.713	7.3	95	0.00
45	T	t-1,3-Dichloropropene	0.406	0.307	24.4	72	0.00
46	T	cis-1,3-Dichloropropene	0.526	0.430	18.3	77	0.00
47	T	1,1,2-Trichloroethane	0.403	0.369	8.4	95	0.00
48	T	Dibromochloromethane	0.632	0.569	10.0	89	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042115.D
Acq On : 10 Mar 2025 09:08
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.549	0.516	6.0	91	0.00
50	T	4-Methyl-2-Pentanone	1.008	0.978	3.0	90	0.00
51	T	2-Hexanone	0.693	0.777	-12.1	87	0.00
52	T	Tetrachloroethene	0.358	0.306	14.5	87	0.00
53	T	Toluene	1.170	0.989	15.5	84	0.00
54	T	1,2-Dibromoethane	0.545	0.483	11.4	90	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56		1,1,1,2-Tetrachloroethane	0.565	0.539	4.6	98	0.00
57	T	Chlorobenzene	1.037	0.962	7.2	97	0.00
58	T	Ethyl Benzene	1.842	1.602	13.0	87	0.00
59	T	m/p-Xylene	1.466	1.356	7.5	93	0.01
60	T	o-Xylene	1.473	1.360	7.7	95	0.00
61	T	Styrene	0.693	0.595	14.1	83	0.00
62		Isopropylbenzene	2.207	2.030	8.0	94	0.00
63	T	1,1,2,2-Tetrachloroethane	0.970	0.955	1.5	103	0.00
64		n-propylbenzene	0.579	0.547	5.5	96	0.00
65		tert-Butylbenzene	2.008	1.829	8.9	97	0.00
66	T	Benzyl Chloride	0.153	0.126	17.6	75	0.00
67		sec-Butylbenzene	2.872	2.623	8.7	97	0.00
68	S	1-Bromo-4-Fluorobenzene	0.769	0.815	-6.0	98	0.00
69		p-Isopropyltoluene	2.285	2.169	5.1	98	0.00
70		n-Butylbenzene	2.332	2.216	5.0	98	0.00
71		2-Chlorotoluene	1.701	1.503	11.6	91	0.00
72	T	4-Ethyltoluene	1.799	1.651	8.2	93	0.00
73	T	1,3,5-Trimethylbenzene	1.560	1.401	10.2	93	0.00
74	T	1,2,4-Trimethylbenzene	1.757	1.604	8.7	100	0.00
75	T	1,3-Dichlorobenzene	1.011	0.949	6.1	100	0.00
76	T	1,4-Dichlorobenzene	1.004	0.938	6.6	100	0.00
77	T	1,2-Dichlorobenzene	0.981	0.940	4.2	103	0.00
78	T	Hexachloro-1,3-Butadiene	0.764	0.645	15.6	93	0.00
79	T	Naphthalene	1.205	1.371	-13.8	92	0.00
80	T	Naphthalene,2-methyl-	0.330	0.431	-30.6#	70	0.00
81	T	1,2,4-Trichlorobenzene	0.671	0.625	6.9	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

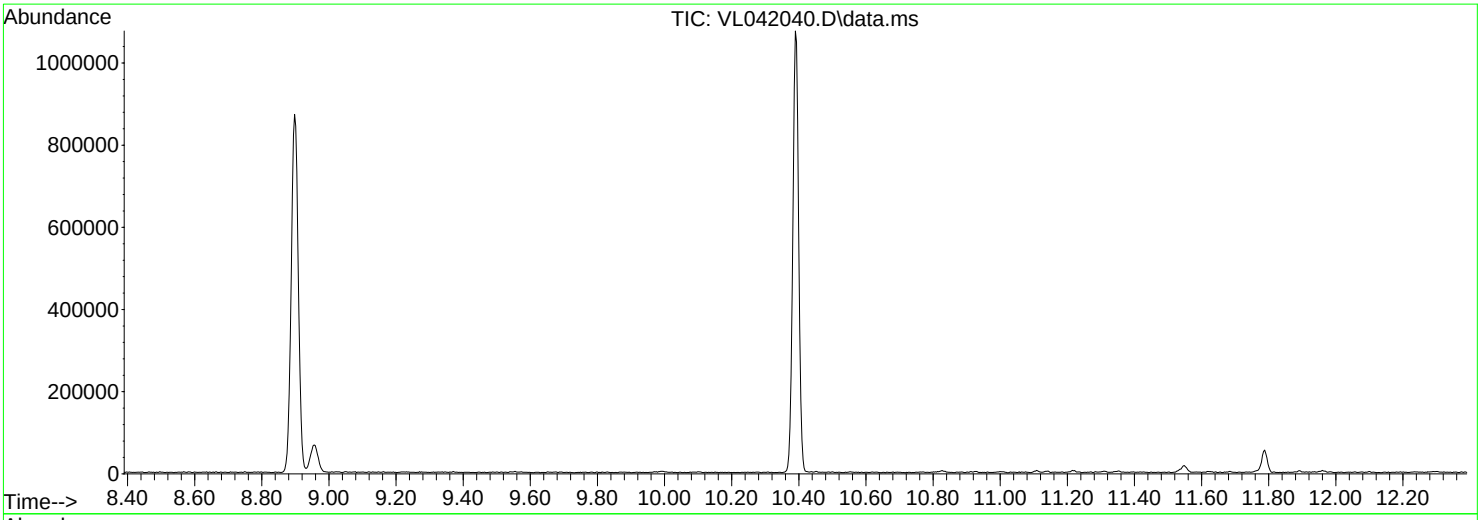
BFB

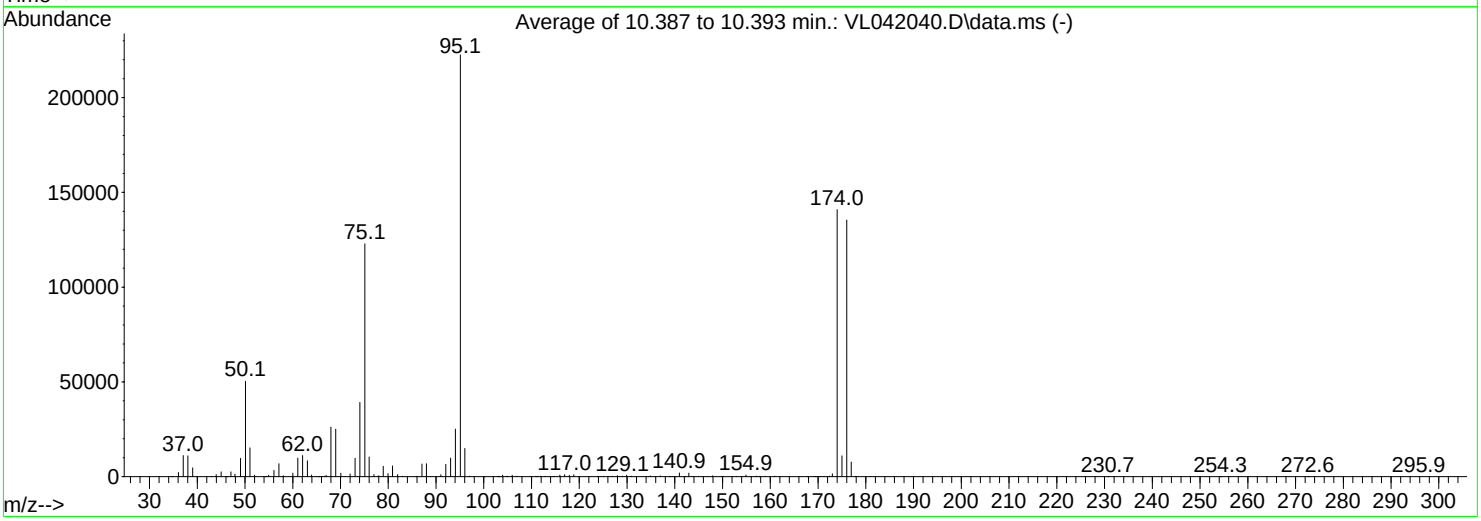
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042040.D
Acq On : 25 Feb 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025





AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	50320	PASS
75	95	30	66	55.2	122859	PASS
95	95	100	100	100.0	222571	PASS
96	95	5	9	6.7	14875	PASS
173	174	0.00	2	1.1	1534	PASS
174	95	50	120	63.3	140957	PASS
175	174	4	9	7.8	11014	PASS
176	174	93	101	96.1	135437	PASS
177	176	5	9	5.7	7676	PASS

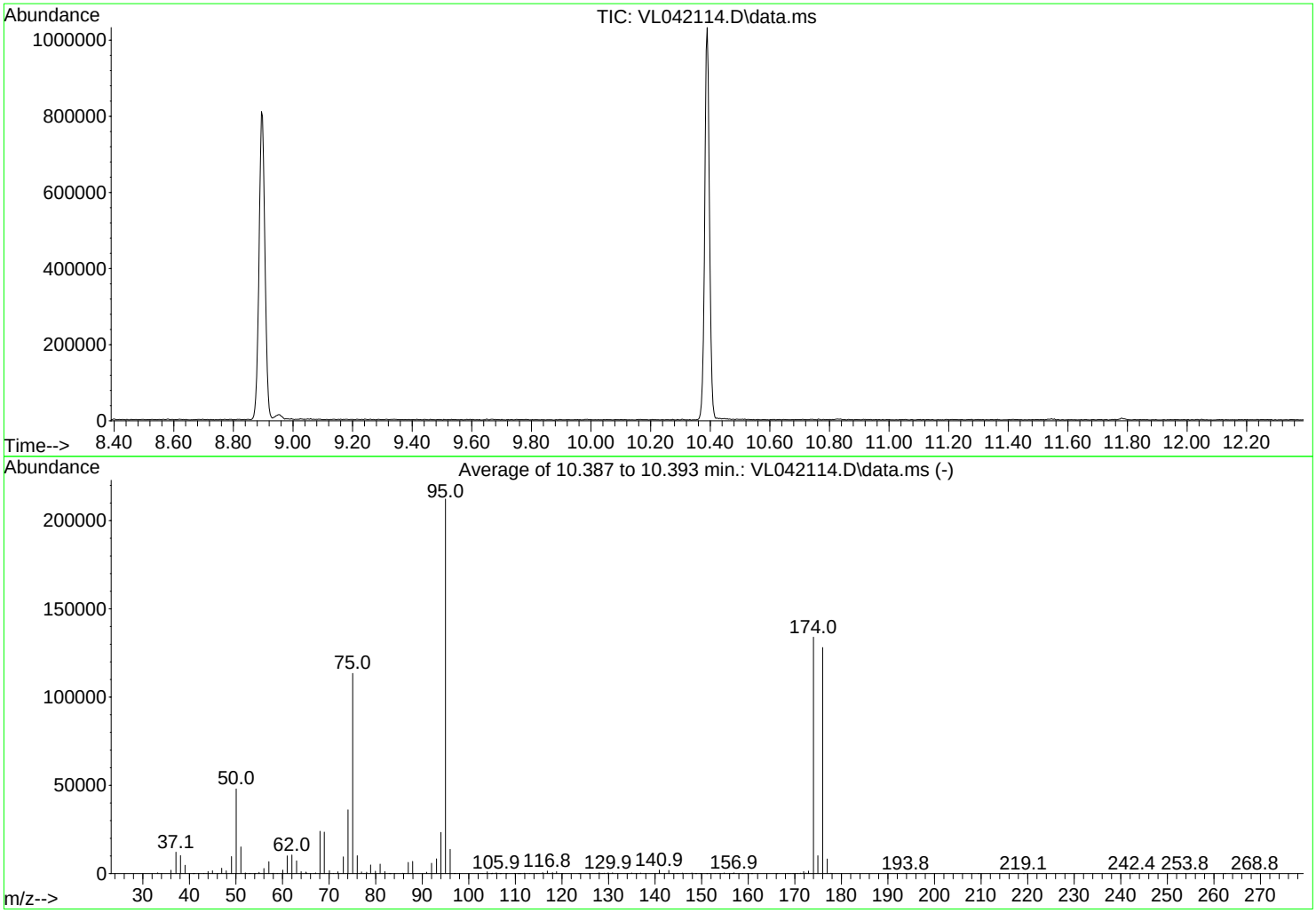
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042114.D
Acq On : 10 Mar 2025 08:22
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	47960	PASS
75	95	30	66	53.4	113432	PASS
95	95	100	100	100.0	212267	PASS
96	95	5	9	6.5	13780	PASS
173	174	0.00	2	1.1	1482	PASS
174	95	50	120	63.1	133968	PASS
175	174	4	9	7.6	10185	PASS
176	174	93	101	95.6	128123	PASS
177	176	5	9	6.5	8273	PASS

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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	
Project:	36-12 37th St. Queens, NY	Date Received:	
Client Sample ID:	VL0310ABL01	SDG No.:	Q1532
Lab Sample ID:	VL0310ABL01	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
VL042116.D	1		03/10/25 09:54	VL031025

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:	Environmental Management Services	Date Collected:	
Project:	36-12 37th St. Queens, NY	Date Received:	
Client Sample ID:	VL0310ABL01	SDG No.:	Q1532
Lab Sample ID:	VL0310ABL01	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
VL042116.D	1		03/10/25 09:54	VL031025

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	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	162000		2.797			
540-36-3	1,4-Difluorobenzene	386000		3.972			
3114-55-4	Chlorobenzene-d5	325000		8.895			

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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	
Project:	36-12 37th St. Queens, NY	Date Received:	
Client Sample ID:	VL0310ABL01	SDG No.:	Q1532
Lab Sample ID:	VL0310ABL01	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
VL042116.D	1		03/10/25 09:54	VL031025

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\VL031025\
Data File : VL042116.D
Acq On : 10 Mar 2025 09:54
Operator : SY/MD
Sample : VL0310ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABL01

Quant Time: Mar 11 01:21:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

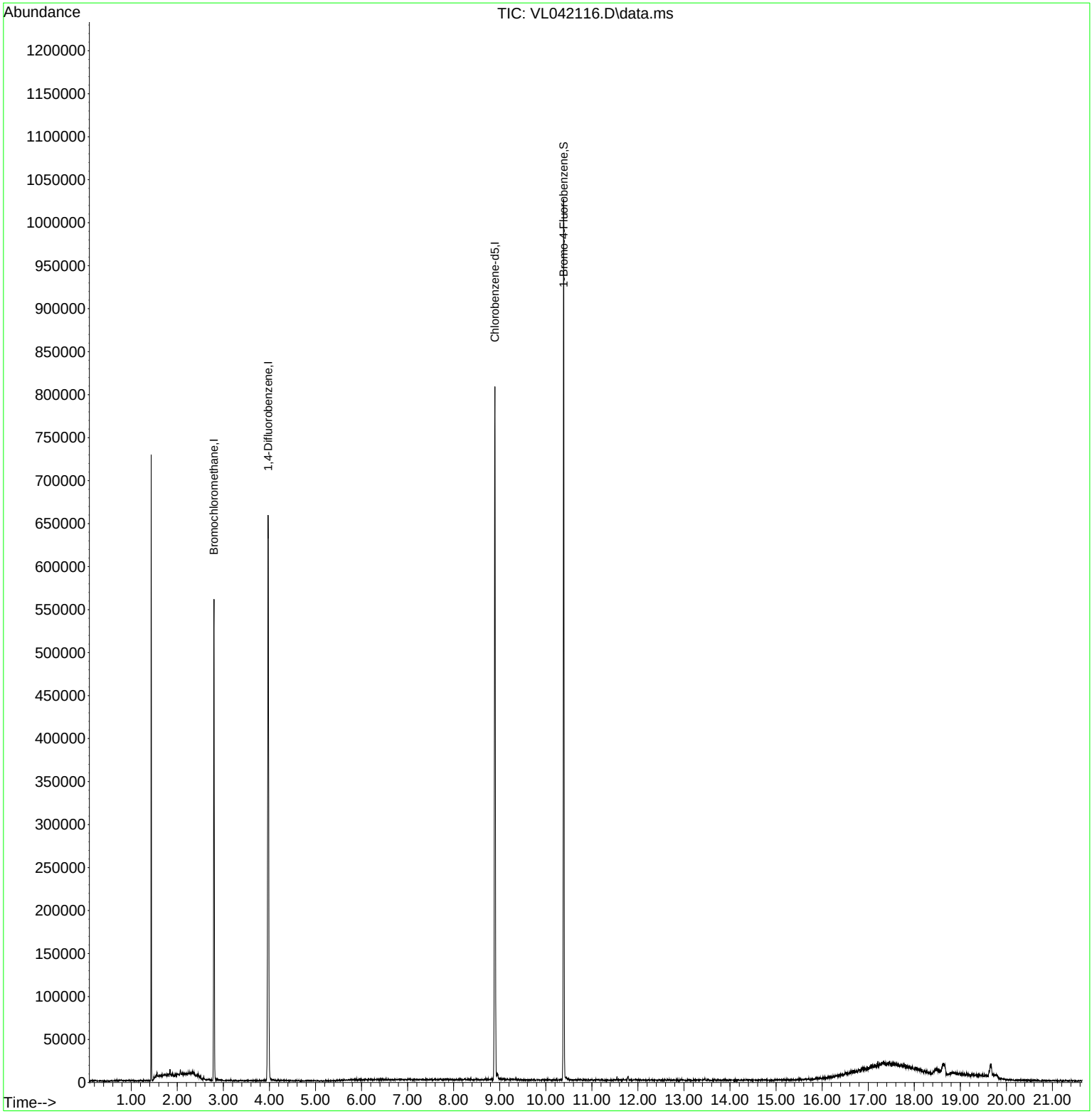
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	162394	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	386417	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	325291	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	247682	9.897	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.000%			
Target Compounds						Qvalue

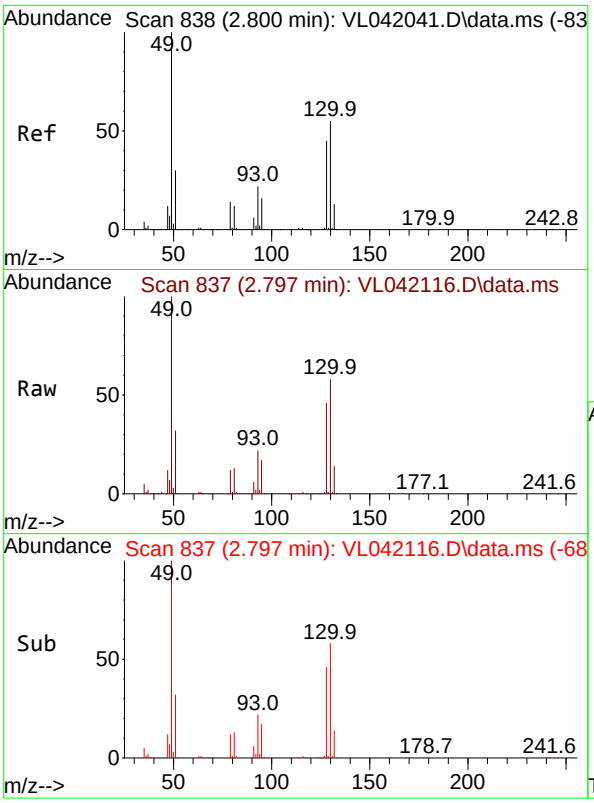
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042116.D
Acq On : 10 Mar 2025 09:54
Operator : SY/MD
Sample : VL0310ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABL01

Quant Time: Mar 11 01:21:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



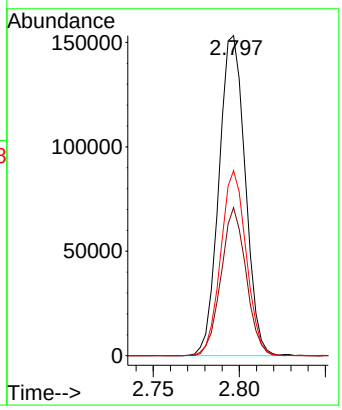


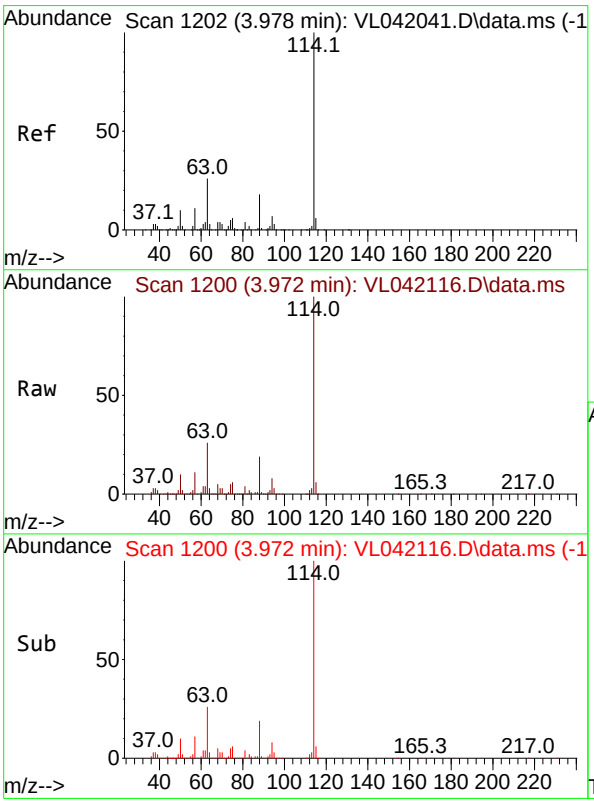
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042116.D
Acq: 10 Mar 2025 09:54

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABL01

Tgt Ion: 49 Resp: 162394

Ion	Ratio	Lower	Upper
49	100		
128	44.2	21.6	64.8
130	56.2	27.8	83.4

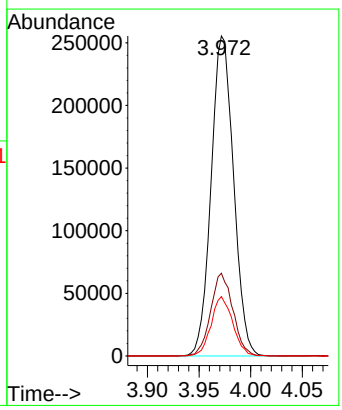


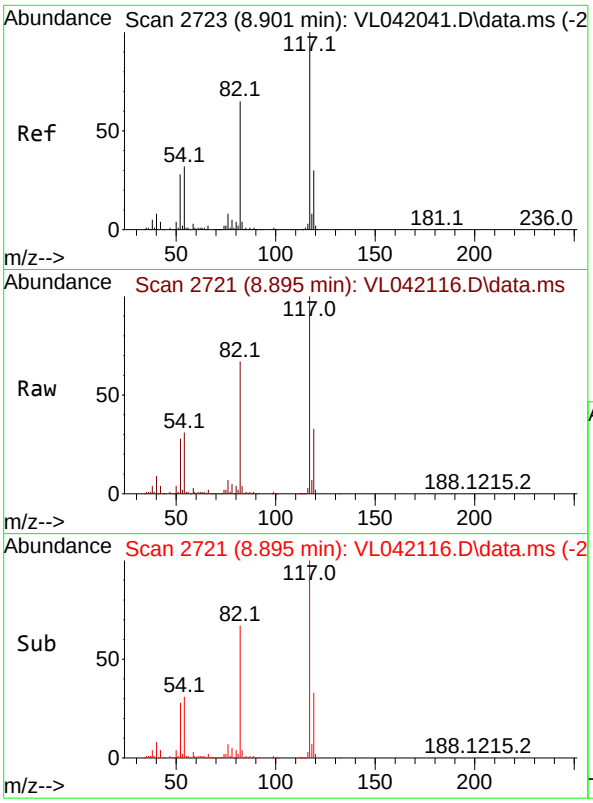


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. -0.007 min
Lab File: VL042116.D
Acq: 10 Mar 2025 09:54

Tgt Ion:114 Resp: 386417

Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.1	30.1
88	17.9	14.3	21.5



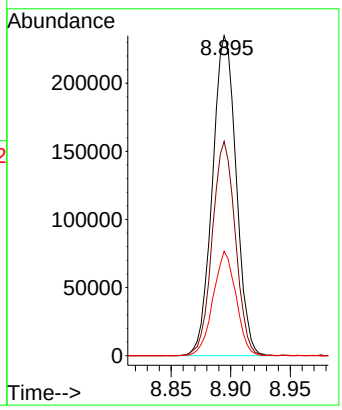


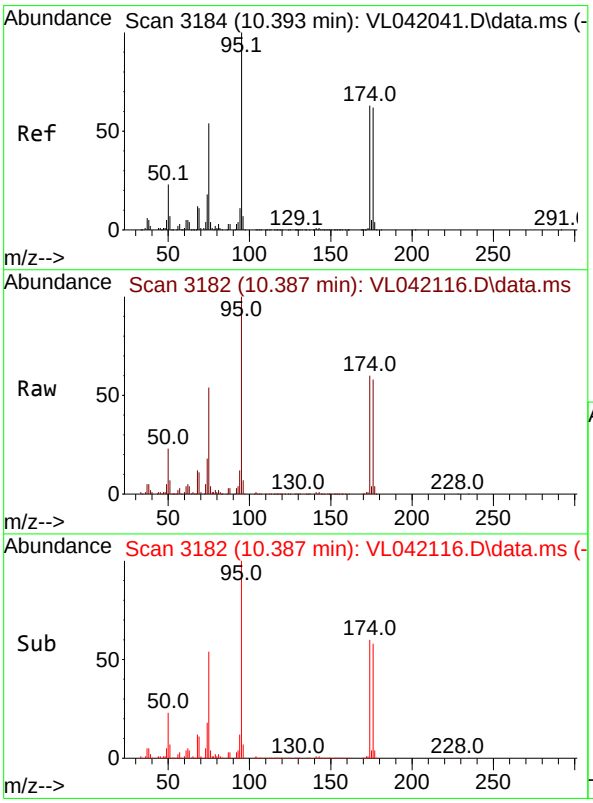
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042116.D
Acq: 10 Mar 2025 09:54

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABL01

Tgt Ion:117 Resp: 325291

Ion	Ratio	Lower	Upper
117	100		
82	65.1	55.0	82.6
119	31.5	25.9	38.9

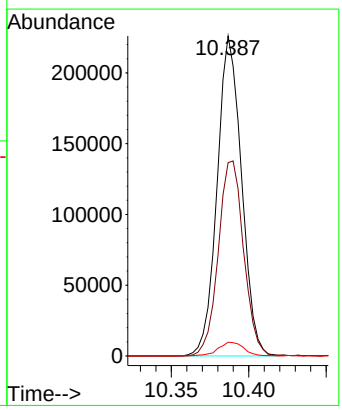




#68
1-Bromo-4-Fluorobenzene
Concen: 9.897 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. -0.007 min
Lab File: VL042116.D
Acq: 10 Mar 2025 09:54

Tgt Ion: 95 Resp: 247682

Ion	Ratio	Lower	Upper
95	100		
174	63.7	51.8	77.6
175	4.6	3.9	5.9



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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	
Project:	36-12 37th St. Queens, NY	Date Received:	
Client Sample ID:	VL0310ABS01	SDG No.:	Q1532
Lab Sample ID:	VL0310ABS01	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
VL042117.D	1		03/10/25 10:52	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.2	50.4		1.04	2.47	ug/m3
74-87-3	Chloromethane	10.1	20.9		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	10.4	26.6		0.030	0.080	ug/m3
74-83-9	Bromomethane	10.4	40.4		0.54	1.94	ug/m3
75-00-3	Chloroethane	10.4	27.4		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	8.70	25.7		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	10.7	60.1		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.60	73.6		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.2	71.3		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	8.50	25.8		0.58	1.52	ug/m3
142-82-5	Heptane	8.10	33.2		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.40	37.3		0.56	1.98	ug/m3
67-64-1	Acetone	9.80	23.3		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	9.70	30.2		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	8.50	30.6		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	9.90	34.4		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.90	39.3		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.1	40.9		0.53	2.02	ug/m3
110-82-7	Cyclohexane	7.80	26.9		0.76	1.72	ug/m3
78-93-3	2-Butanone	9.10	26.8		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.50	59.8		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	7.90	31.3		0.36	1.98	ug/m3
67-66-3	Chloroform	8.50	41.5		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	7.90	43.1		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.10	42.5		0.47	2.34	ug/m3
71-43-2	Benzene	8.90	28.4		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	8.70	35.2		0.36	2.02	ug/m3
79-01-6	Trichloroethene	8.40	45.1		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	8.90	41.1		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	9.10	61.0		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.60	39.3		0.37	2.05	ug/m3
108-88-3	Toluene	8.50	32.0		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	7.60	34.5		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	8.10	36.8		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	8.90	48.6		0.38	2.73	ug/m3

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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	
Project:	36-12 37th St. Queens, NY	Date Received:	
Client Sample ID:	VL0310ABS01	SDG No.:	Q1532
Lab Sample ID:	VL0310ABS01	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
VL042117.D	1		03/10/25 10:52	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	9.00	76.7		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	8.70	66.9		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	8.40	57.0		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	9.30	42.8		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	8.60	37.4		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	18.0	78.2		0.91	4.34	ug/m3
95-47-6	o-Xylene	9.10	39.5		0.52	2.17	ug/m3
100-42-5	Styrene	8.50	36.2		0.47	2.13	ug/m3
75-25-2	Bromoform	9.20	95.1		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	9.50	65.2		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	8.60	44.5		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	8.80	43.3		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	8.70	42.8		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.00	54.1		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.00	54.1		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	9.30	55.9		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.90	66.1		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.20	87.5		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	10.1	22.3		0.29	1.11	ug/m3
91-20-3	Naphthalene	11.2	58.7		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	8.90	43.8		0.59	2.46	ug/m3
110-54-3	Hexane	8.50	30.0		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	9.60	30.1		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	8.30	29.9		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	8.40	34.4		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	169000	2.797				
540-36-3	1,4-Difluorobenzene	400000	3.975				
3114-55-4	Chlorobenzene-d5	350000	8.898				

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

Report of Analysis

Client:	Environmental Management Services	Date Collected:	
Project:	36-12 37th St. Queens, NY	Date Received:	
Client Sample ID:	VL0310ABS01	SDG No.:	Q1532
Lab Sample ID:	VL0310ABS01	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
VL042117.D	1		03/10/25 10:52	VL031025

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\VL031025\
Data File : VL042117.D
Acq On : 10 Mar 2025 10:52
Operator : SY/MD
Sample : VL0310ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:21:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	168824	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	400351	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	350466	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	286905	10.641	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	178551	10.171	ppbv	97
3) Chlorodifluoromethane	1.479	51	214564	8.745	ppbv	98
4) Chloromethane	1.538	50	65373	10.070	ppbv	96
5) Vinyl Chloride	1.583	62	63789	10.387	ppbv	98
6) Bromomethane	1.670	94	30397	10.395	ppbv	97
7) Chloroethane	1.709	64	25907	10.383	ppbv	90
8) Dichlorotetrafluoroethane	1.557	85	147392	10.213	ppbv	99
9) Propene	1.486	41	84908	8.494	ppbv	98
10) Heptane	5.001	43	253371	8.141	ppbv	100
11) Trichlorofluoromethane	1.884	101	188256	10.702	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	134259	9.568	ppbv	95
13) Ethanol	1.729	45	3976	6.266	ppbv	93
14) Bromoethene	1.787	108	50688	10.230	ppbv	100
15) Acetone	1.842	43	145391	9.752	ppbv	99
16) 1,3-Butadiene	1.612	39	70201	10.118	ppbv	98
17) tert-Butyl alcohol	2.046	59	159331	8.542	ppbv	99
18) 1,1-Dichloroethene	2.039	96	59693	9.415	ppbv	100
19) Isopropyl Alcohol	1.890	45	79215	9.250	ppbv	93
20) Methylene Chloride	2.068	84	55851	9.904	ppbv	98
21) Allyl Chloride	2.104	41	103366	9.596	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	73354	9.925	ppbv	95
23) Vinyl Acetate	2.470	43	75186	7.172	ppbv #	97
24) 1,1-Dichloroethane	2.415	63	138556	10.075	ppbv	99
25) Ethyl Acetate	2.845	43	511525	8.572	ppbv	100
26) Hexane	2.836	57	204595	8.480	ppbv	98
27) Carbon Disulfide	2.156	76	158957	9.720	ppbv	98
28) Methyl tert-Butyl Ether	2.450	73	102132	8.503	ppbv	99
29) Chloroform	2.858	83	277421	8.544	ppbv	98
30) Cyclohexane	3.871	84	152583	7.792	ppbv	94
31) cis-1,2-Dichloroethene	2.732	61	179418	7.856	ppbv	98
32) 1,1,1-Trichloroethane	3.379	97	249329	7.916	ppbv	95
34) 2-Butanone	2.567	43	284384	9.118	ppbv	97
35) Carbon Tetrachloride	3.777	117	262027	9.491	ppbv	95
36) Benzene	3.671	78	374551	8.937	ppbv	96
37) 1,2-Dichloroethane	3.230	62	201838	8.686	ppbv	100
38) Trichloroethene	4.564	130	143616	8.392	ppbv	98
39) 1,2-Dichloropropane	4.331	63	141729	8.909	ppbv	99
40) 1,4-Dioxane	4.603	88	60426	8.321	ppbv #	88
41) Tetrahydrofuran	3.069	42	160858	8.728	ppbv	97
42) Bromodichloromethane	4.509	83	283730	9.063	ppbv	95
43) Methyl Methacrylate	4.900	69	137403	8.395	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	675434	9.131	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	123548	7.598	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042117.D
Acq On : 10 Mar 2025 10:52
Operator : SY/MD
Sample : VL0310ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:21:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.622	75	169656	8.063	ppbv		98
47)	1,1,2-Trichloroethane	6.603	97	144144	8.925	ppbv		95
48)	Dibromochloromethane	7.402	129	226388	8.951	ppbv		99
49)	Bromoform	9.496	173	201809	9.188	ppbv		98
50)	4-Methyl-2-Pentanone	5.781	43	387370	9.603	ppbv		97
51)	2-Hexanone	7.454	43	305577	11.007	ppbv	#	97
52)	Tetrachloroethene	8.241	164	120494	8.398	ppbv		92
53)	Toluene	6.952	91	396095	8.456	ppbv		97
54)	1,2-Dibromoethane	7.671	107	190659	8.732	ppbv		92
56)	1,1,1,2-Tetrachloroethane	8.940	131	183026	9.240	ppbv		100
57)	Chlorobenzene	8.937	112	336406	9.258	ppbv		95
58)	Ethyl Benzene	9.370	91	554446	8.590	ppbv		98
59)	m/p-Xylene	9.564	91	925654m	18.022	ppbv		
60)	o-Xylene	9.976	91	467382	9.052	ppbv		98
61)	Styrene	9.885	104	205606	8.469	ppbv		97
62)	Isopropylbenzene	10.552	105	692094	8.950	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.976	83	323193	9.504	ppbv		100
64)	n-propylbenzene	11.002	120	184209	9.081	ppbv		99
65)	tert-Butylbenzene	11.542	119	620355	8.814	ppbv		99
66)	Benzyl Chloride	11.626	91	38948	7.252	ppbv		99
67)	sec-Butylbenzene	11.778	105	900003	8.942	ppbv		99
69)	p-Isopropyltoluene	11.937	119	732332	9.145	ppbv		99
70)	n-Butylbenzene	12.293	91	752707	9.208	ppbv		99
71)	2-Chlorotoluene	10.914	91	514130	8.624	ppbv		99
72)	4-Ethyltoluene	11.137	105	562308	8.919	ppbv		100
73)	1,3,5-Trimethylbenzene	11.215	105	480973	8.795	ppbv		100
74)	1,2,4-Trimethylbenzene	11.549	105	538676	8.747	ppbv		99
75)	1,3-Dichlorobenzene	11.620	146	318968	9.000	ppbv		99
76)	1,4-Dichlorobenzene	11.684	146	315833	8.976	ppbv		99
77)	1,2-Dichlorobenzene	11.960	146	319838	9.299	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.892	225	219090	8.187	ppbv		99
79)	Naphthalene	13.523	128	472554	11.191	ppbv		100
80)	Naphthalene,2-methyl-	14.468	142	153727	13.304	ppbv		97
81)	1,2,4-Trichlorobenzene	13.452	180	210585	8.949	ppbv		99

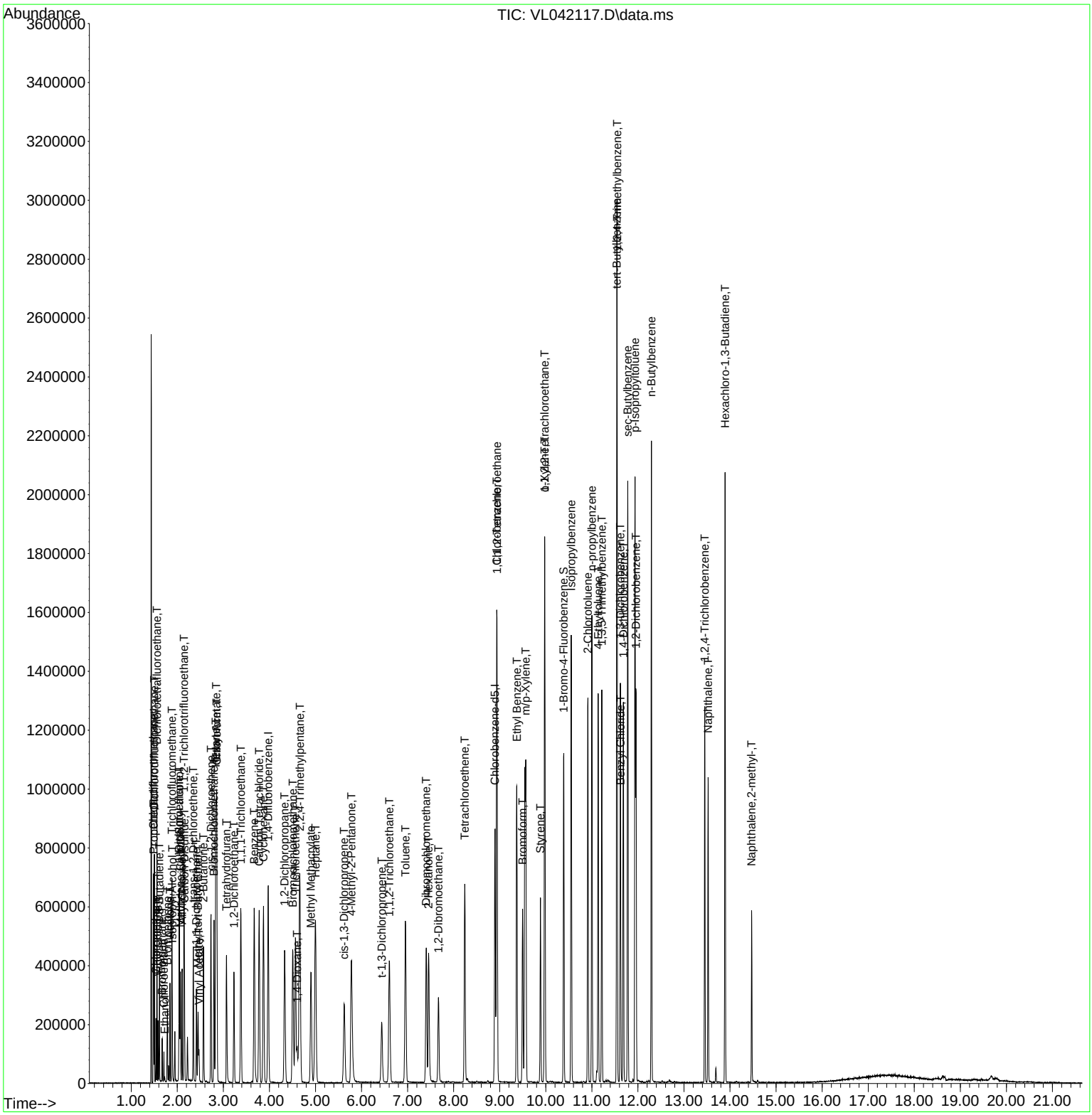
(#) = qualifier out of range (m) = manual integration (+) = signals summed

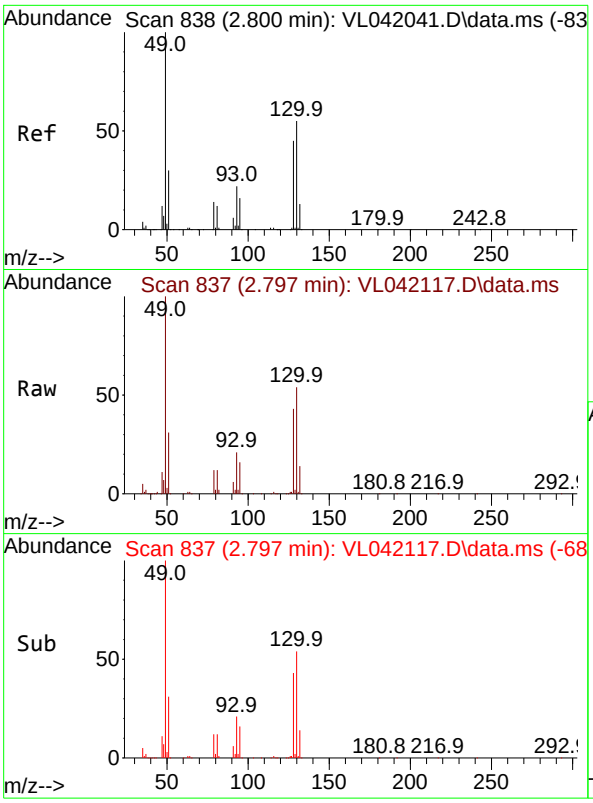
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042117.D
Acq On : 10 Mar 2025 10:52
Operator : SY/MD
Sample : VL0310ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 11 01:21:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

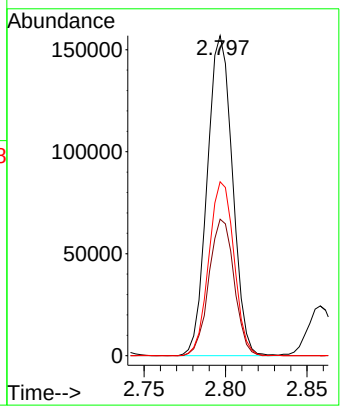
Tgt Ion: 49 Resp: 16882

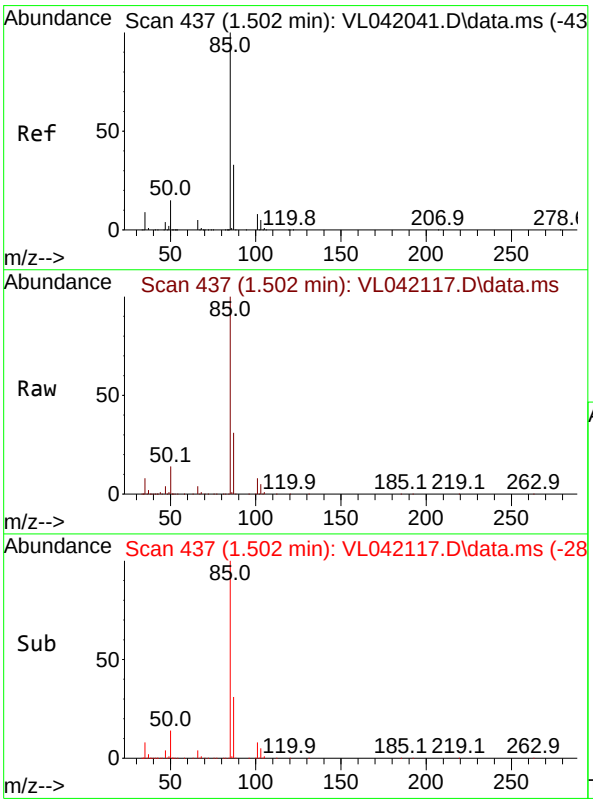
Ion	Ratio	Lower	Upper
49	100		
128	42.6	21.6	64.8
130	54.3	27.8	83.4

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

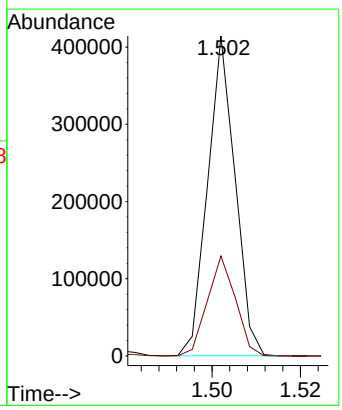


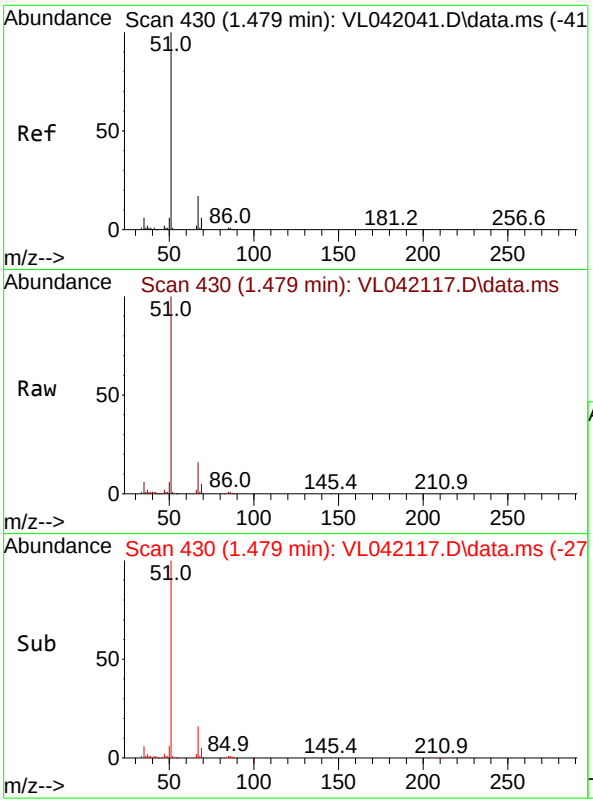


#2
Dichlorodifluoromethane
Concen: 10.171 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 85 Resp: 178551

Ion	Ratio	Lower	Upper
85	100		
87	31.3	26.4	39.6

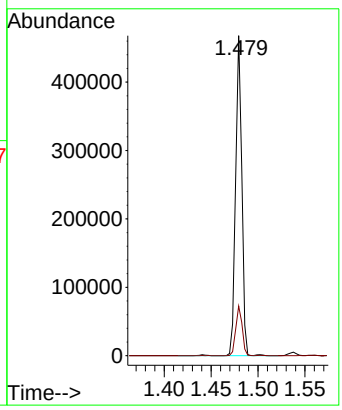




#3
Chlorodifluoromethane
Concen: 8.745 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 51 Resp: 21456

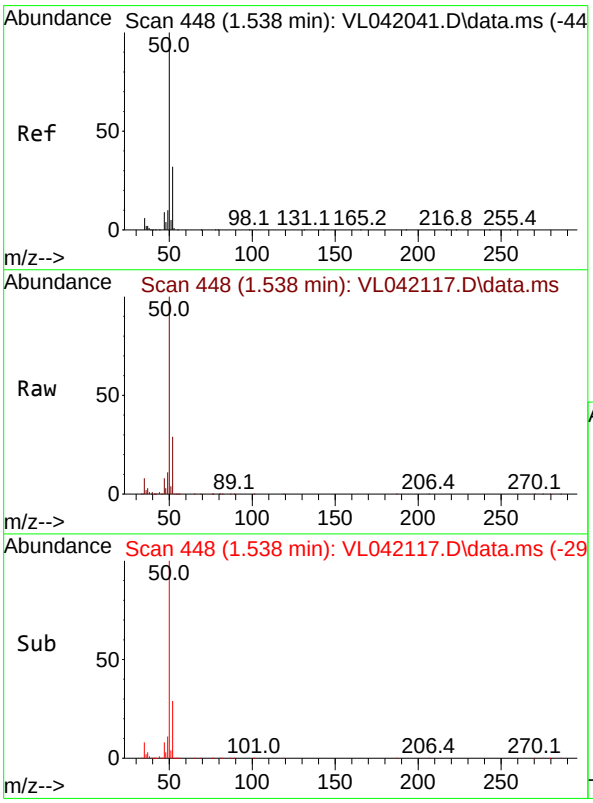
Ion	Ratio	Lower	Upper
51	100		
67	16.2	13.7	20.5



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

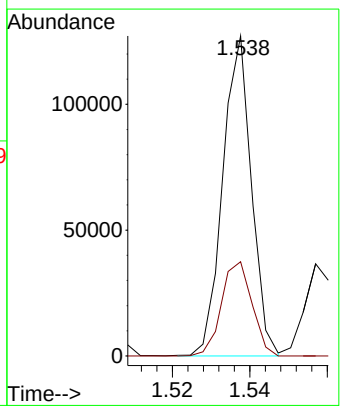
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

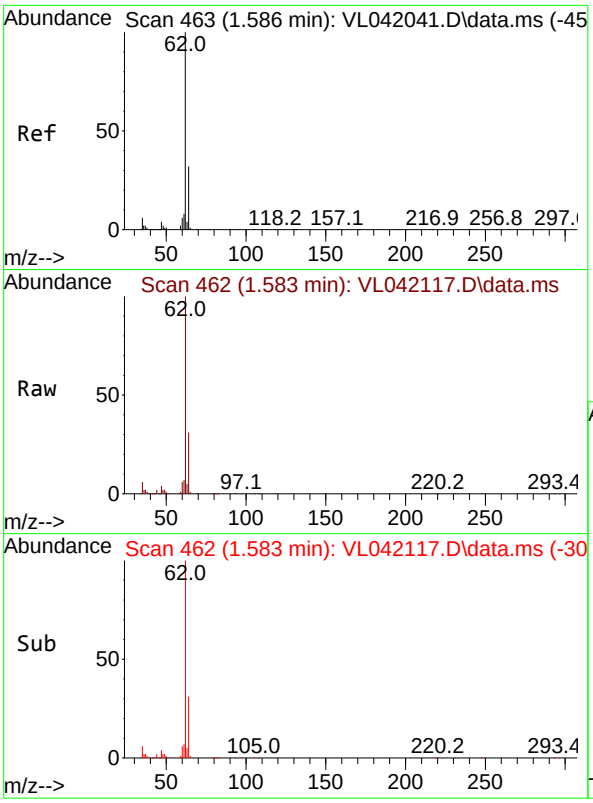


#4
Chloromethane
Concen: 10.070 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 50 Resp: 65373

Ion	Ratio	Lower	Upper
50	100		
52	29.5	25.4	38.0

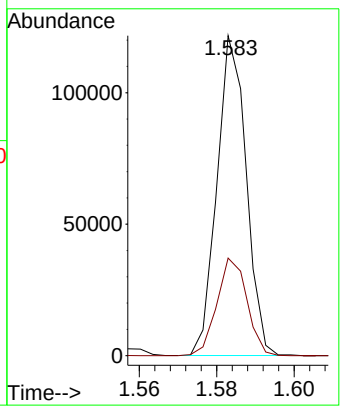




#5
Vinyl Chloride
Concen: 10.387 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 62 Resp: 6378

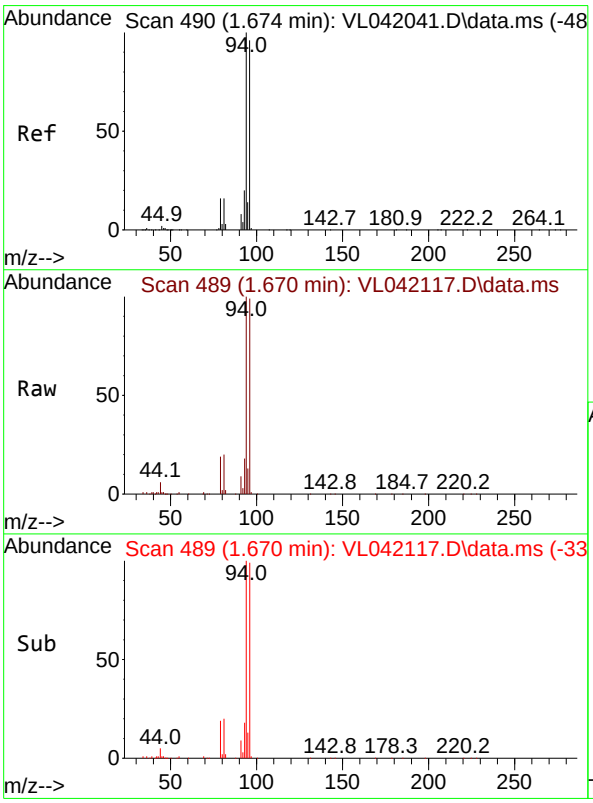
Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.3	37.9



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

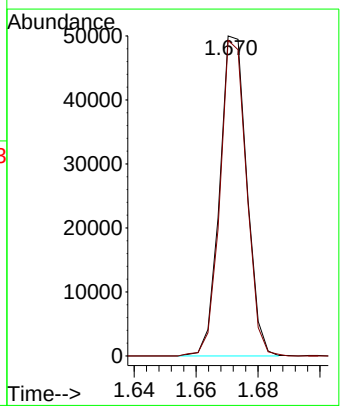
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

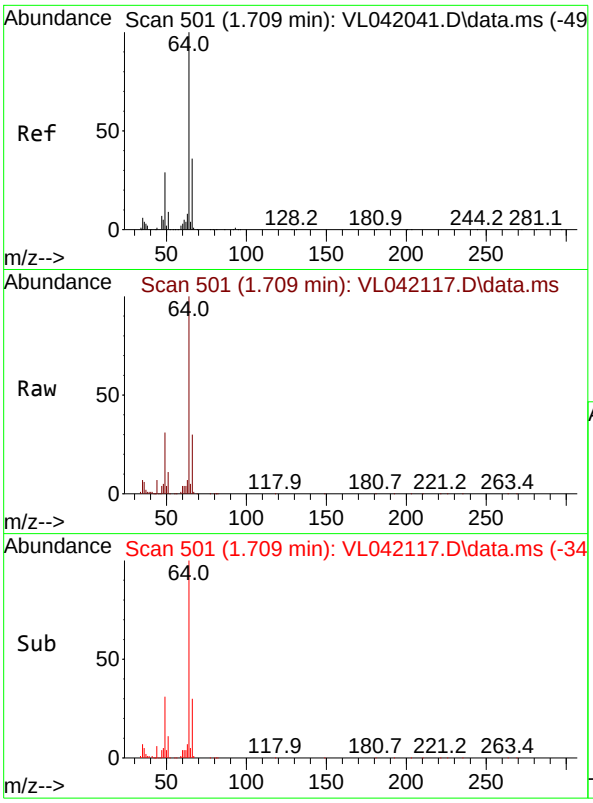


#6
Bromomethane
Concen: 10.395 ppbv
RT: 1.670 min Scan# 489
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 94 Resp: 30397

Ion	Ratio	Lower	Upper
94	100		
96	98.7	76.5	114.7

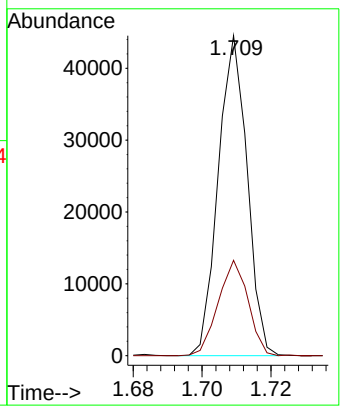




#7
Chloroethane
Concen: 10.383 ppbv
RT: 1.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 64 Resp: 2590

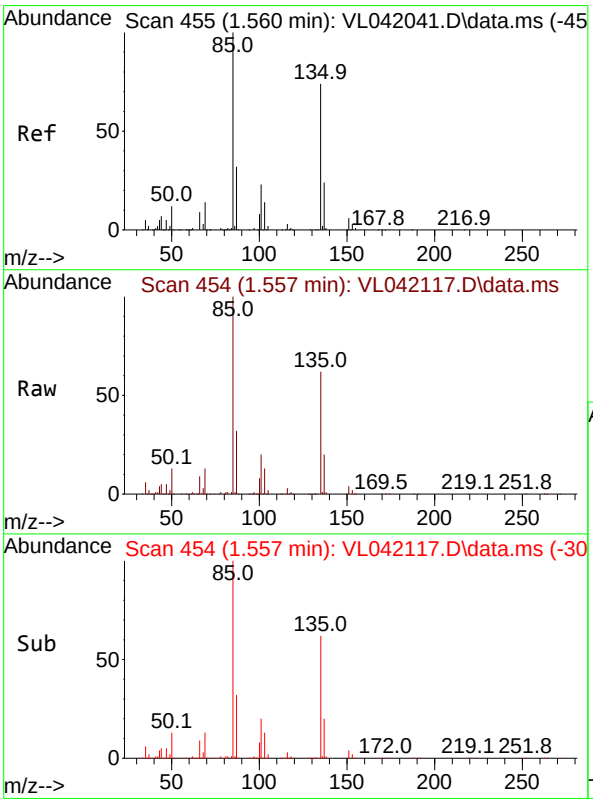
Ion	Ratio	Lower	Upper
64	100		
66	29.8	28.4	42.6



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

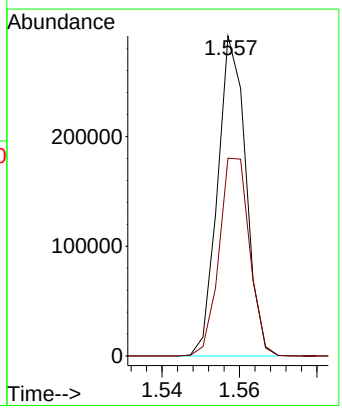
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

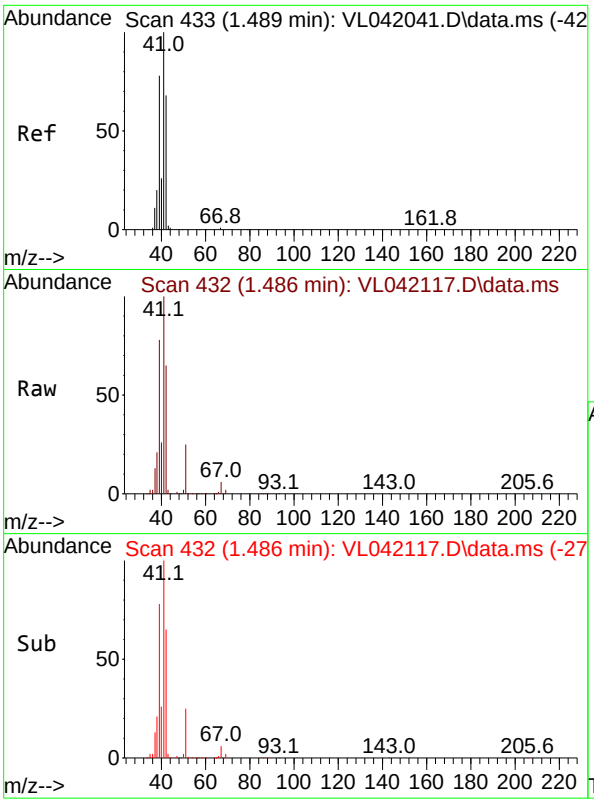


#8
Dichlorotetrafluoroethane
Concen: 10.213 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 85 Resp: 147392

Ion	Ratio	Lower	Upper
85	100		
135	67.0	54.6	81.8

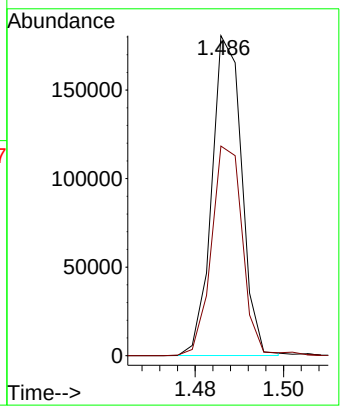




#9
Propene
Concen: 8.494 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 41 Resp: 8490

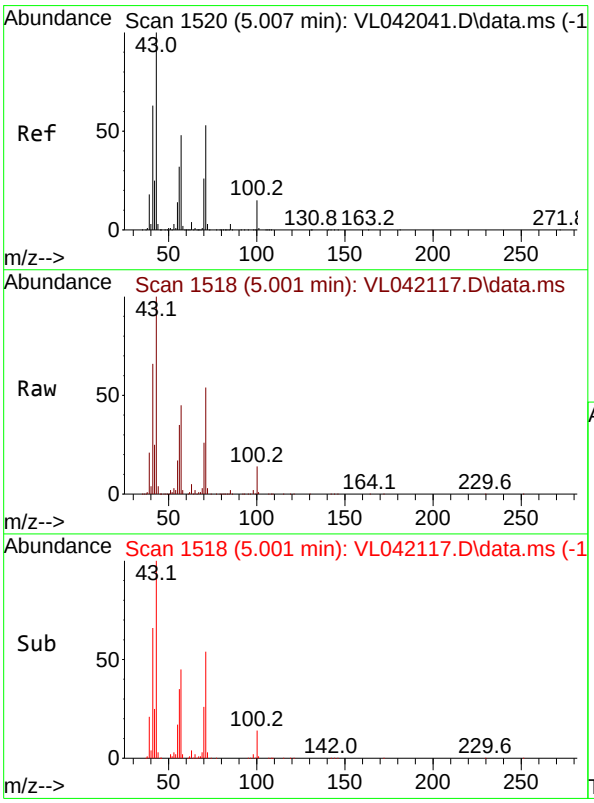
Ion	Ratio	Lower	Upper
41	100		
42	68.5	55.8	83.6



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

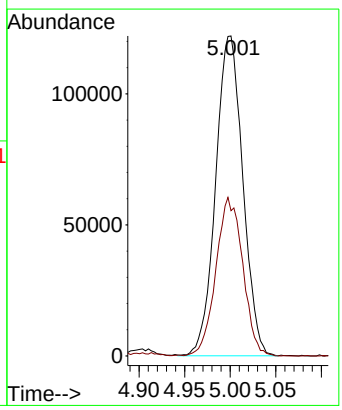
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

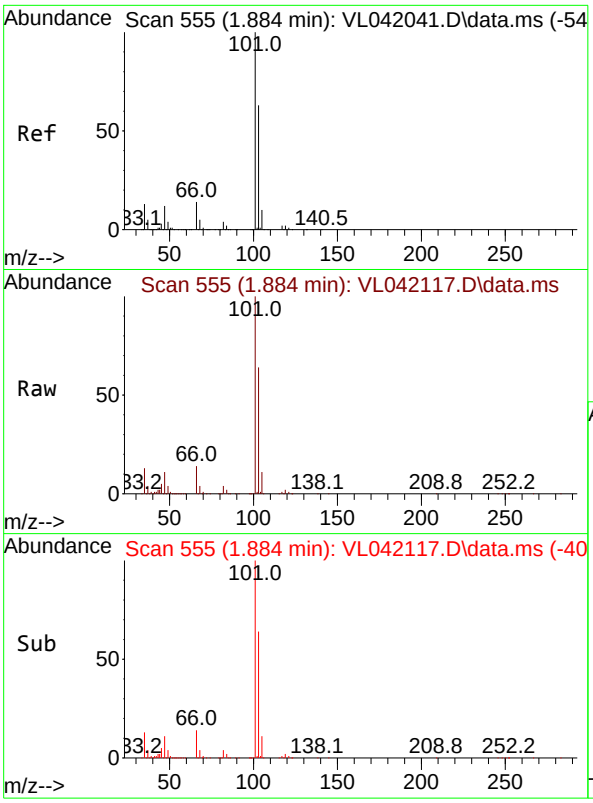


#10
Heptane
Concen: 8.141 ppbv
RT: 5.001 min Scan# 1518
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 43 Resp: 253371

Ion	Ratio	Lower	Upper
43	100		
57	48.9	39.4	59.0

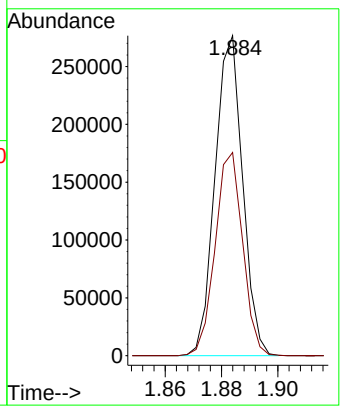




#11
Trichlorofluoromethane
Concen: 10.702 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:101 Resp: 18825

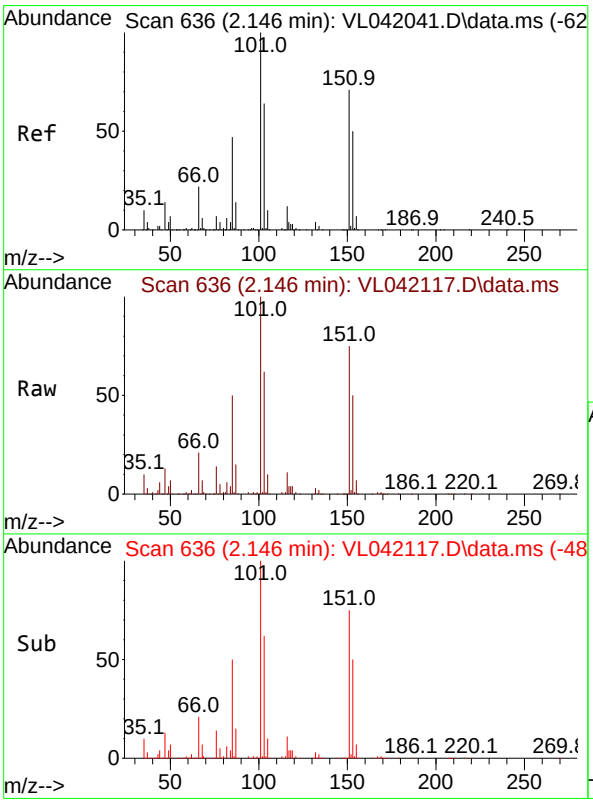
Ion	Ratio	Lower	Upper
101	100		
103	63.5	50.6	75.8



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

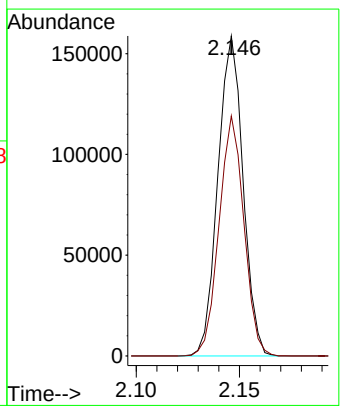
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

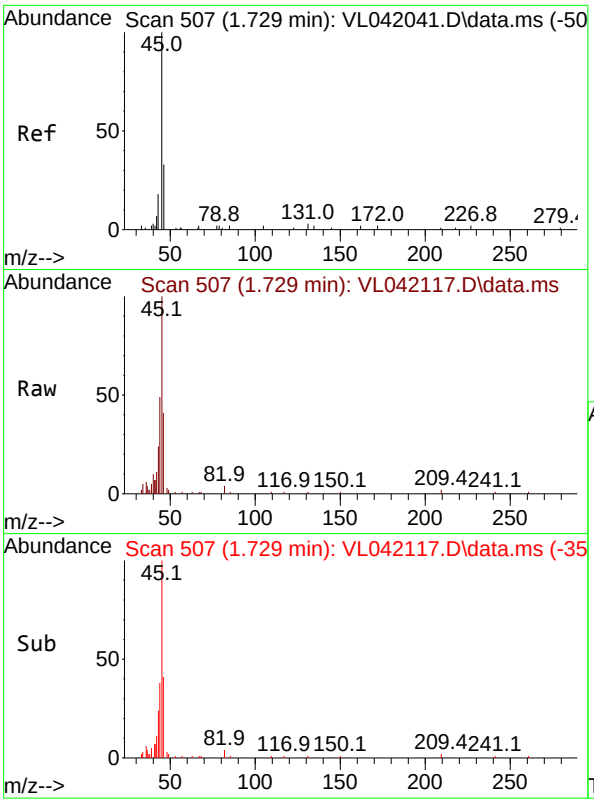


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.568 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:101 Resp: 134259

Ion	Ratio	Lower	Upper
101	100		
151	74.2	62.6	94.0

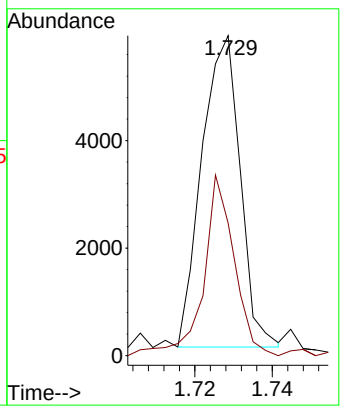




#13
Ethanol
Concen: 6.266 ppbv
RT: 1.729 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 45 Resp: 397(

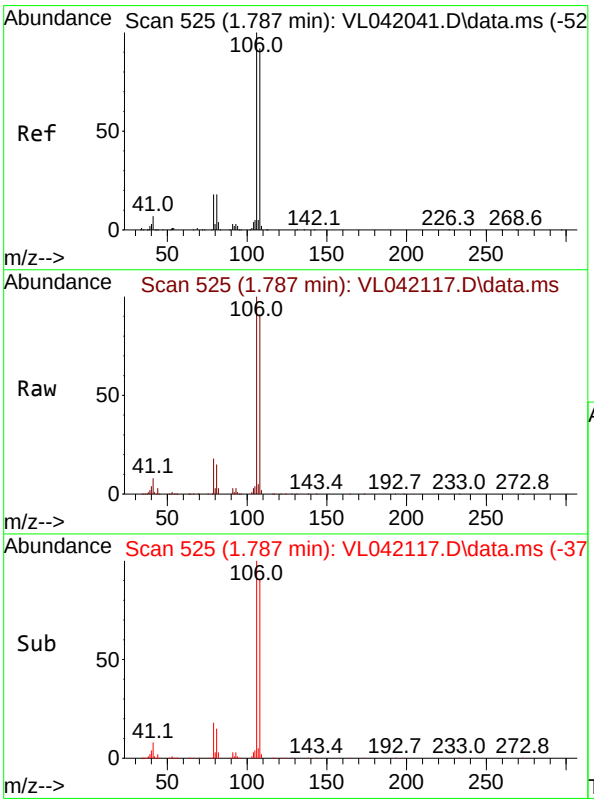
Ion	Ratio	Lower	Upper
45	100		
46	47.4	17.1	68.3



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

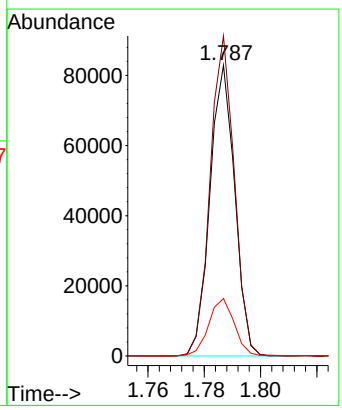
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

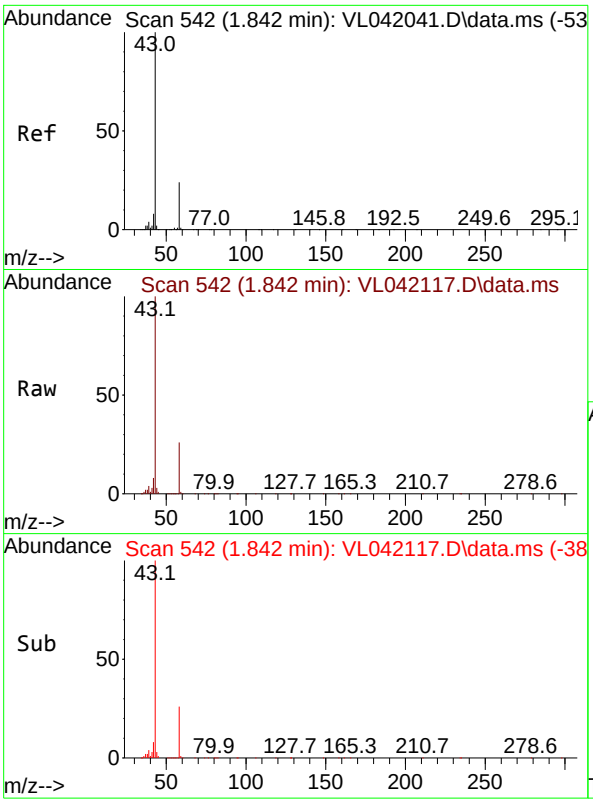


#14
Bromoethene
Concen: 10.230 ppbv
RT: 1.787 min Scan# 525
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:108 Resp: 50688

Ion	Ratio	Lower	Upper
108	100		
106	107.1	85.4	128.0
79	20.9	16.5	24.7

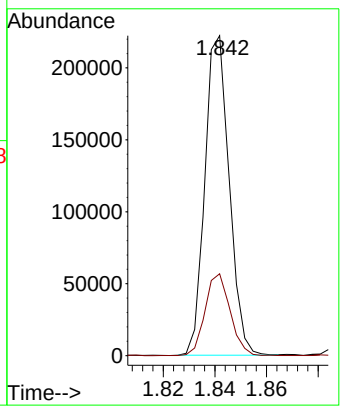




#15
Acetone
Concen: 9.752 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 43 Resp: 14539

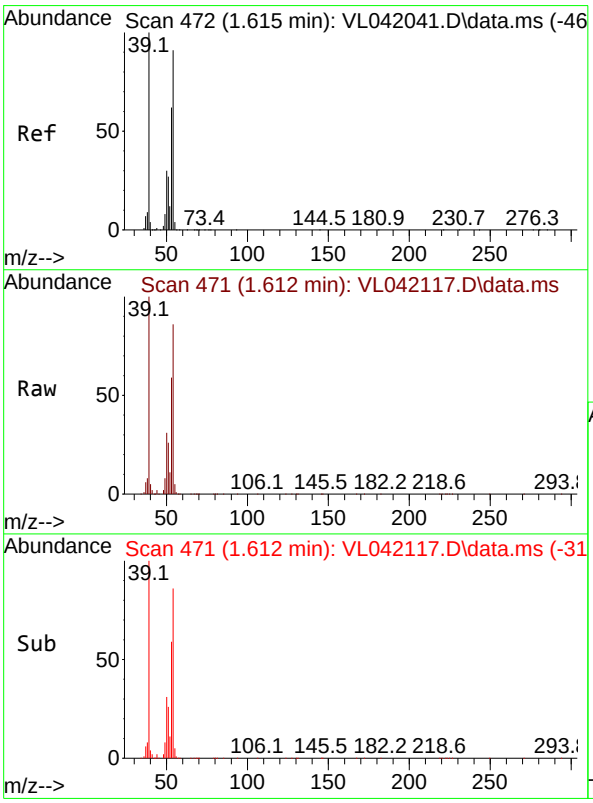
Ion	Ratio	Lower	Upper
43	100		
58	26.6	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

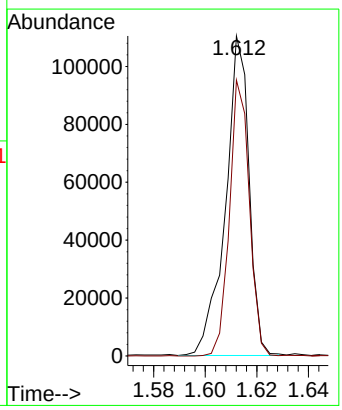
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

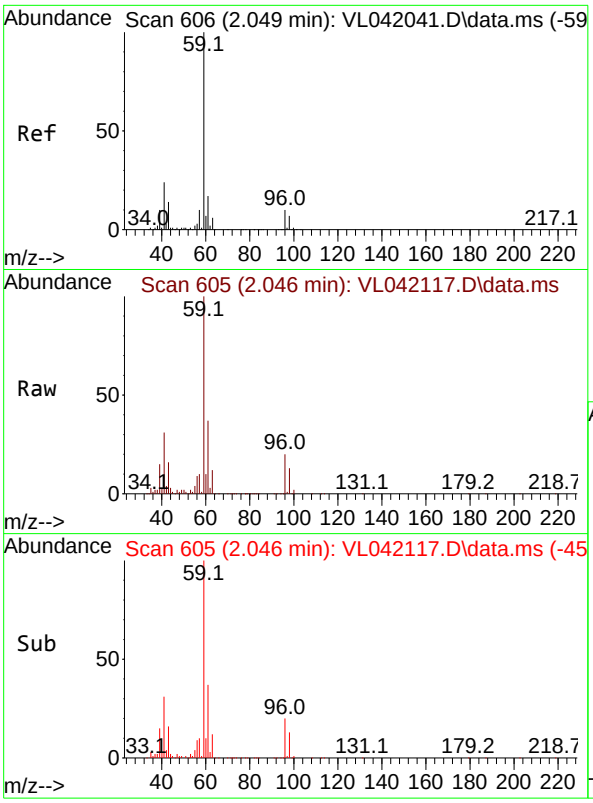


#16
1,3-Butadiene
Concen: 10.118 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 39 Resp: 70201

Ion	Ratio	Lower	Upper
39	100		
54	73.0	59.6	89.4

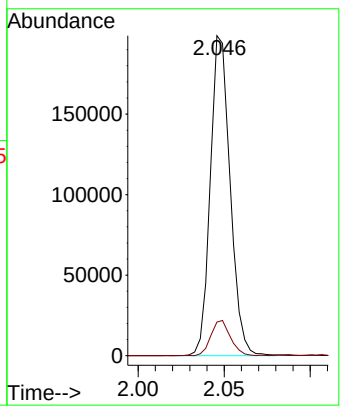




#17
tert-Butyl alcohol
Concen: 8.542 ppbv
RT: 2.046 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 59 Resp: 15933

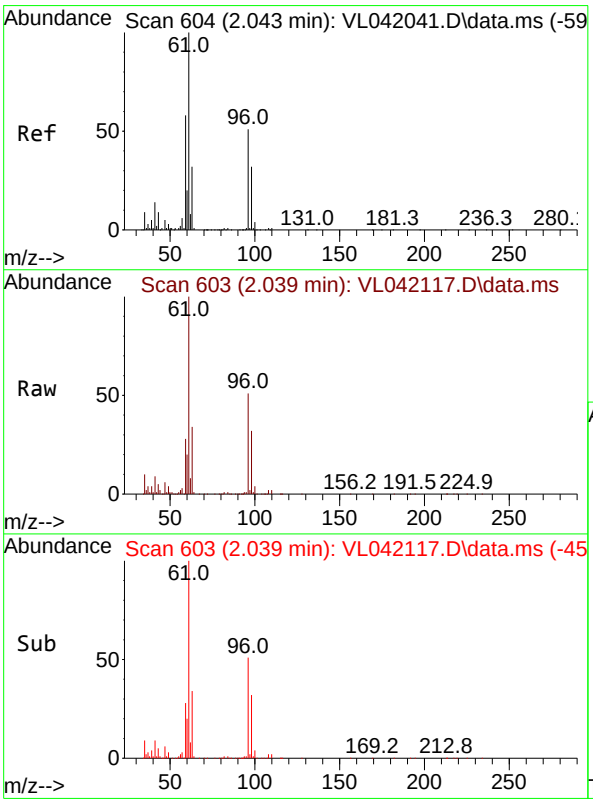
Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

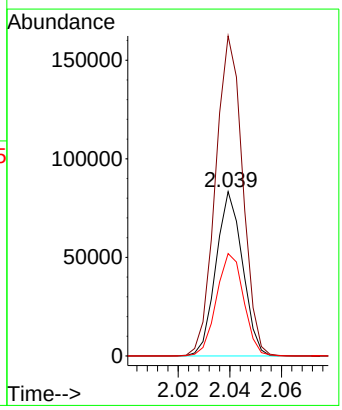
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

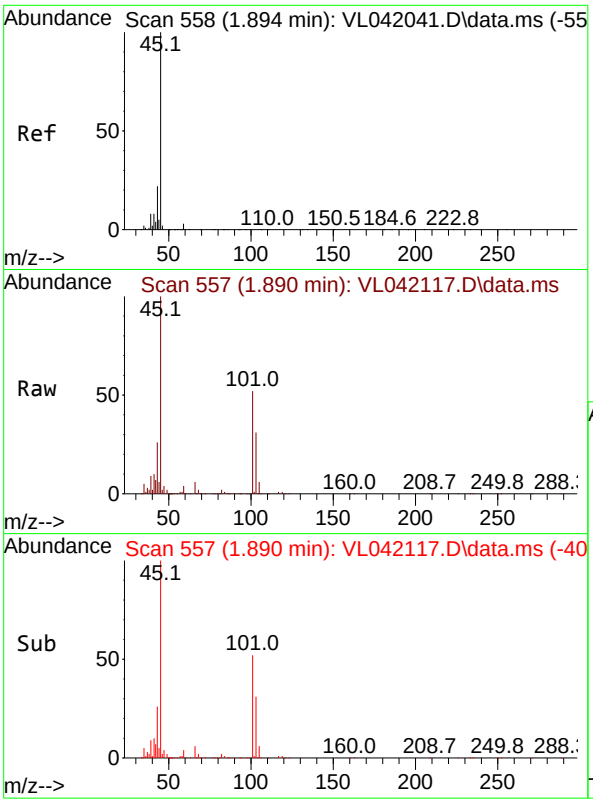


#18
1,1-Dichloroethene
Concen: 9.415 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 96 Resp: 59693

Ion	Ratio	Lower	Upper
96	100		
61	194.5	156.0	234.0
98	62.3	49.4	74.2

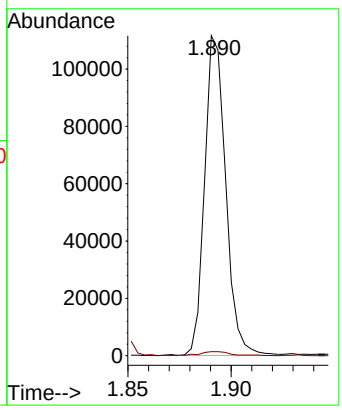




#19
Isopropyl Alcohol
Concen: 9.250 ppbv
RT: 1.890 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 45 Resp: 7921

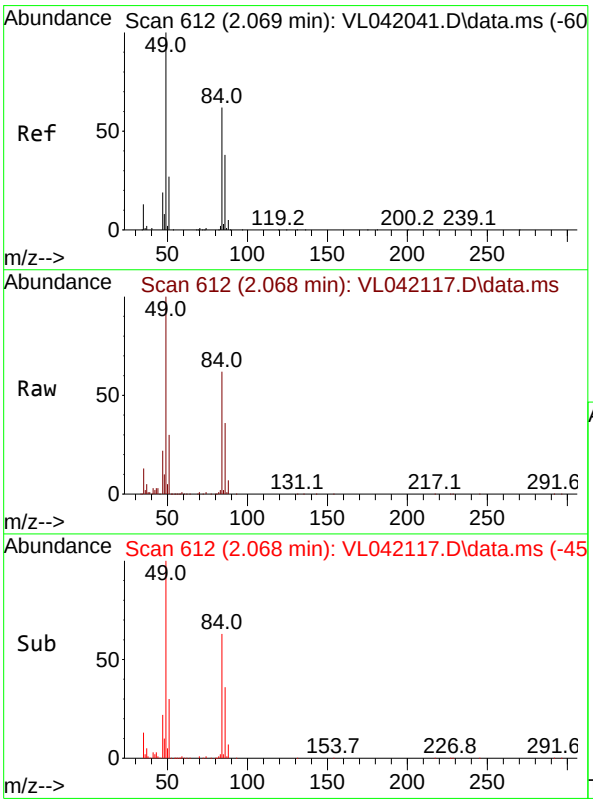
Ion	Ratio	Lower	Upper
45	100		
58	49.0	35.3	52.9



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

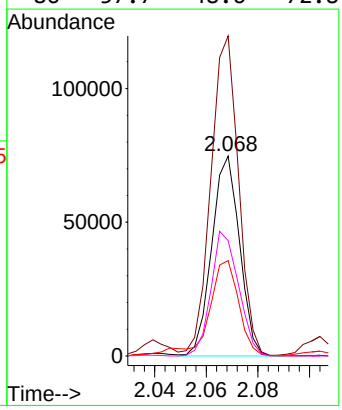
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

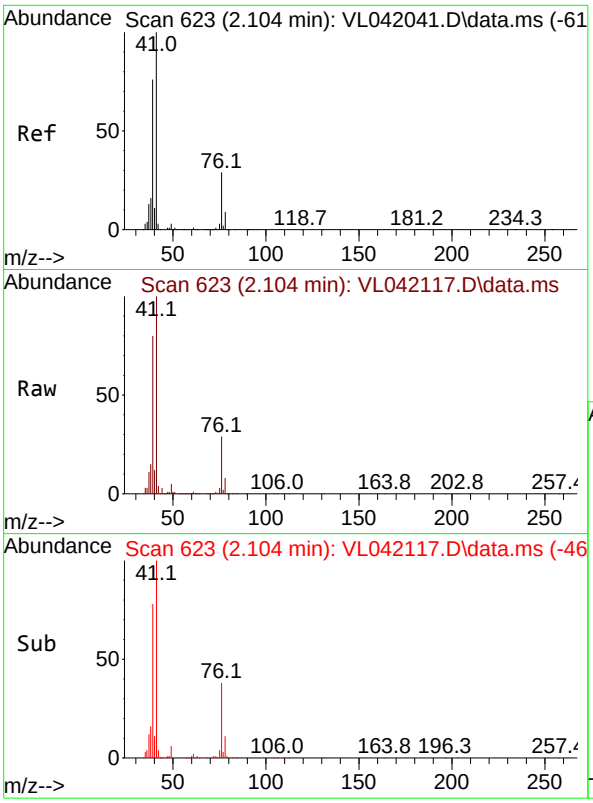


#20
Methylene Chloride
Concen: 9.904 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 84 Resp: 55851

Ion	Ratio	Lower	Upper
84	100		
49	159.7	130.0	195.0
51	47.6	37.4	56.0
86	57.7	48.6	72.8

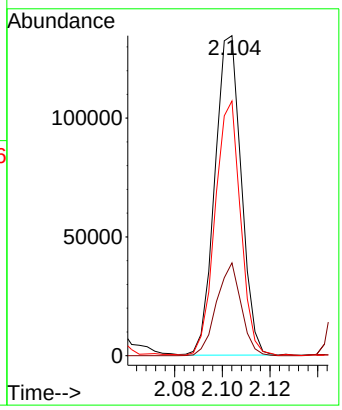




#21
Allyl Chloride
Concen: 9.596 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 41 Resp: 10336

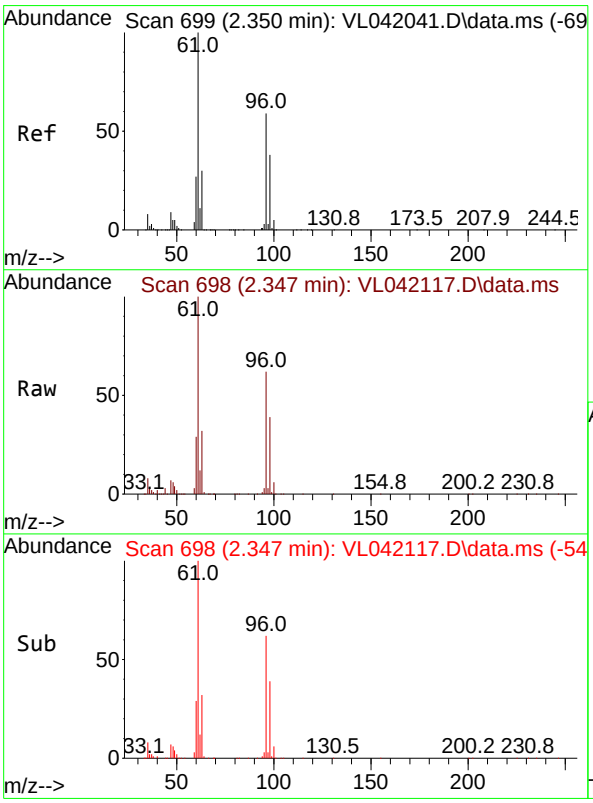
Ion	Ratio	Lower	Upper
41	100		
76	27.2	23.8	35.6
39	76.6	63.8	95.6



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

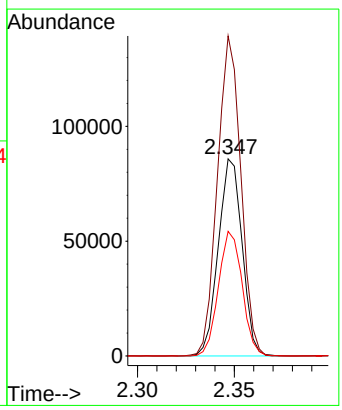
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

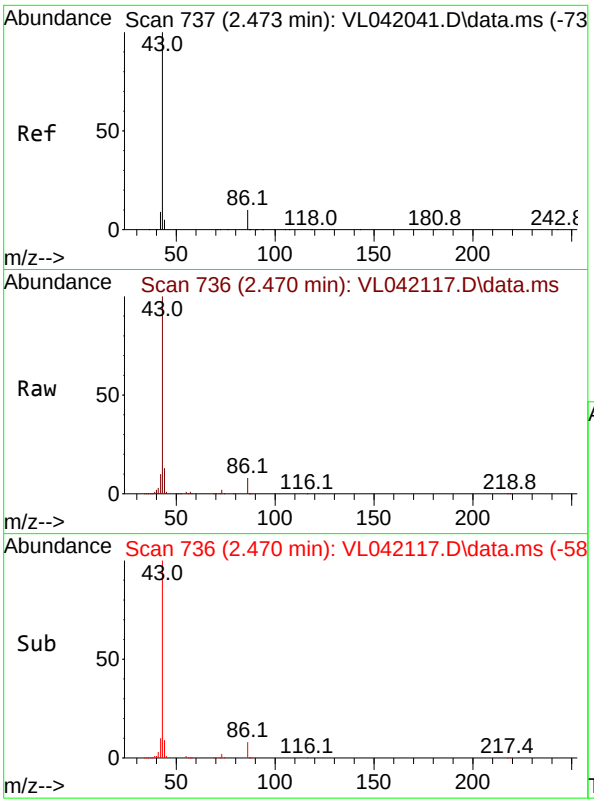


#22
trans-1,2-Dichloroethene
Concen: 9.925 ppbv
RT: 2.347 min Scan# 698
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 96 Resp: 73354

Ion	Ratio	Lower	Upper
96	100		
61	162.4	136.6	205.0
98	63.2	51.8	77.6

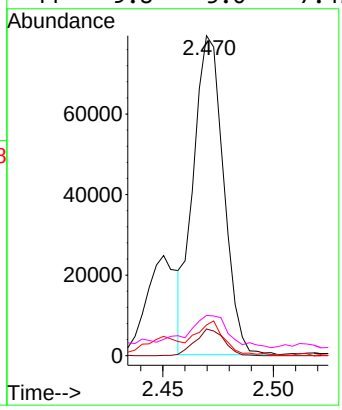




#23
Vinyl Acetate
Concen: 7.172 ppbv
RT: 2.470 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 43 Resp: 7518

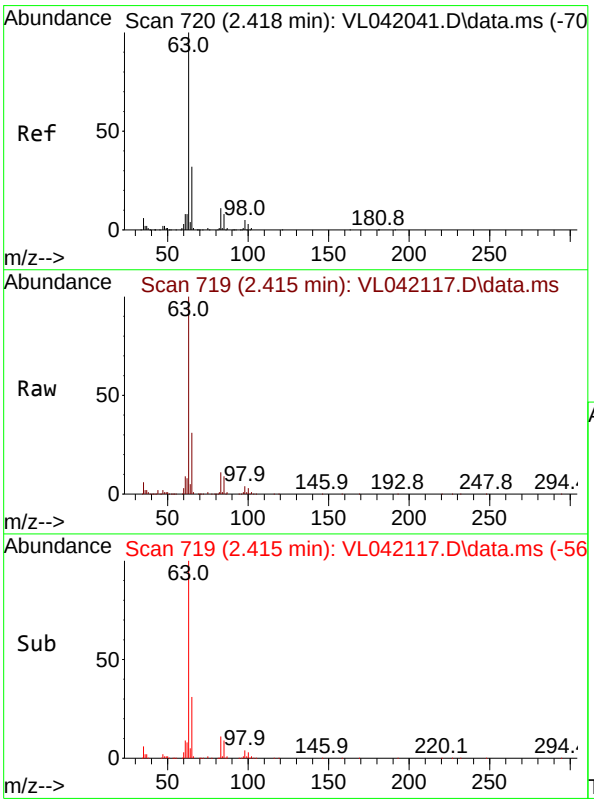
Ion	Ratio	Lower	Upper
43	100		
86	8.5	7.0	10.4
42	9.3	7.6	11.4
44	9.8	5.0	7.4#



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

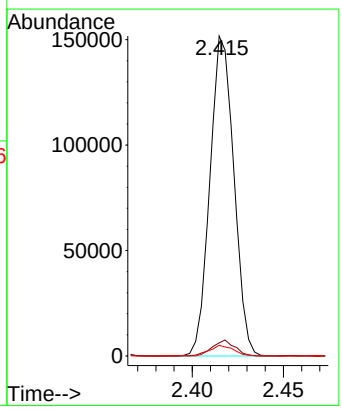
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

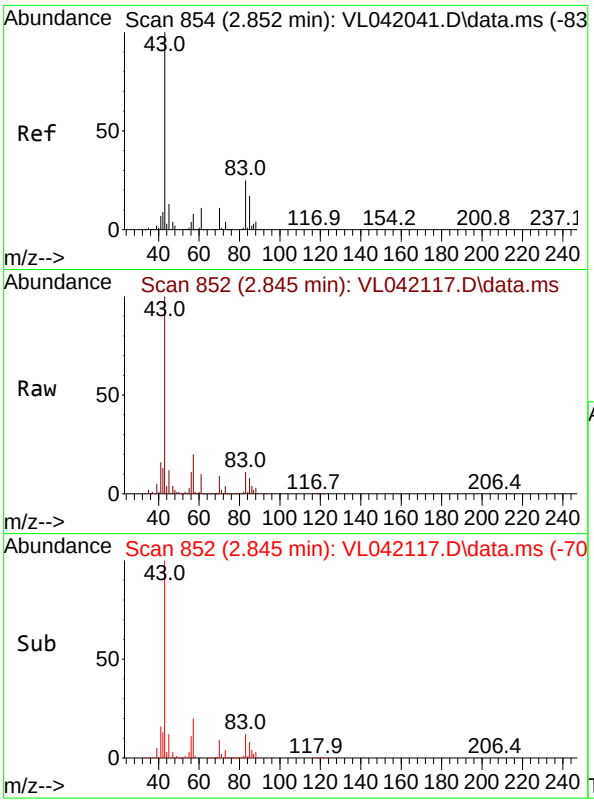


#24
1,1-Dichloroethane
Concen: 10.075 ppbv
RT: 2.415 min Scan# 719
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 63 Resp: 138556

Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.4	7.2
100	3.4	1.7	5.0

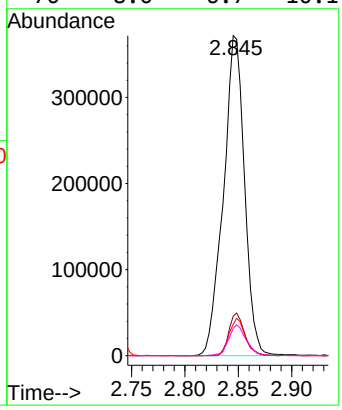




#25
Ethyl Acetate
Concen: 8.572 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 43 Resp: 51152

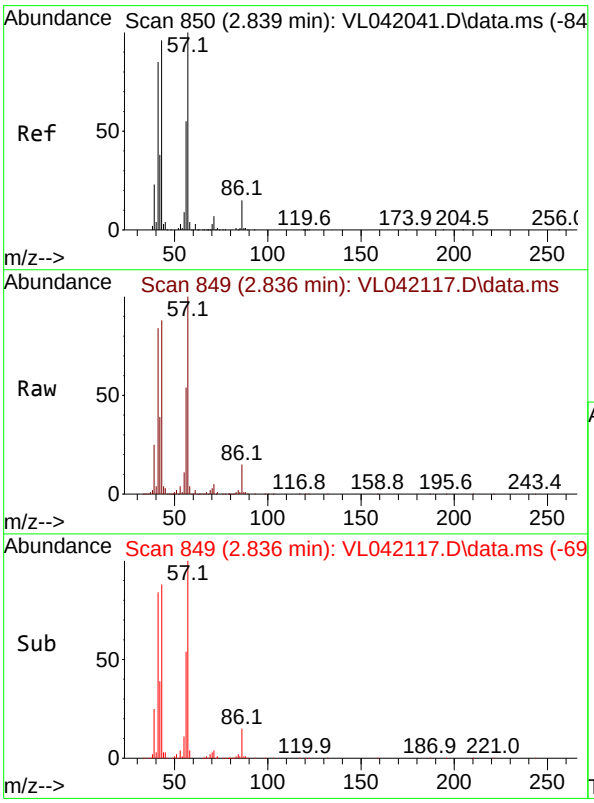
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.0	7.2	10.8
70	8.0	6.7	10.1



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

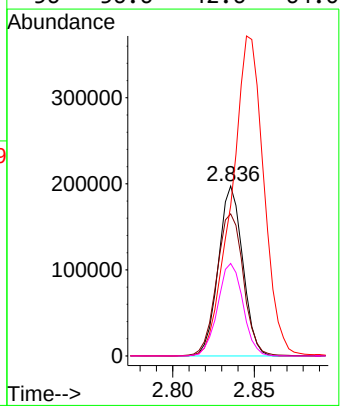
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

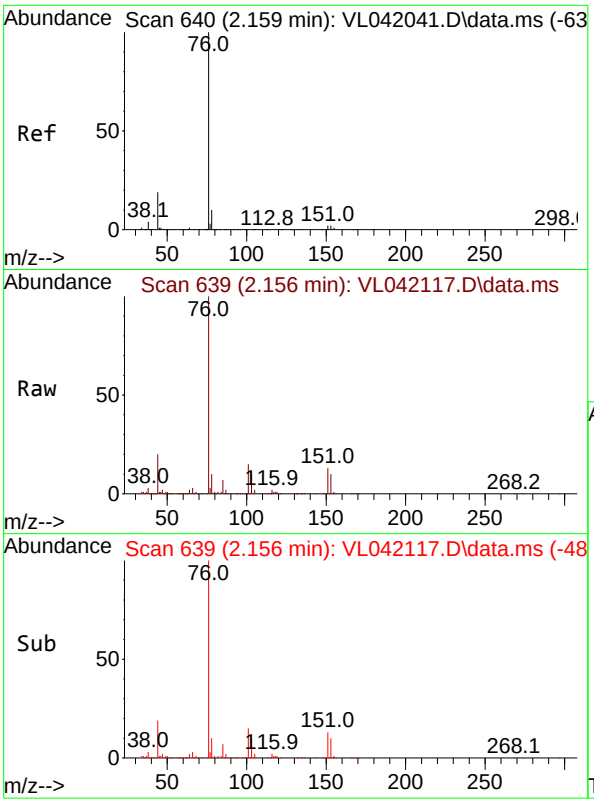


#26
Hexane
Concen: 8.480 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 57 Resp: 204595

Ion	Ratio	Lower	Upper
57	100		
41	92.9	70.6	106.0
43	251.1	199.4	299.0
56	56.6	42.6	64.0

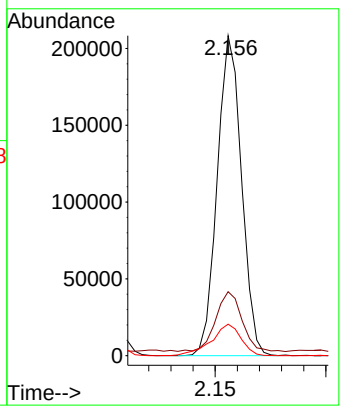




#27
Carbon Disulfide
Concen: 9.720 ppbv
RT: 2.156 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 76 Resp: 15895

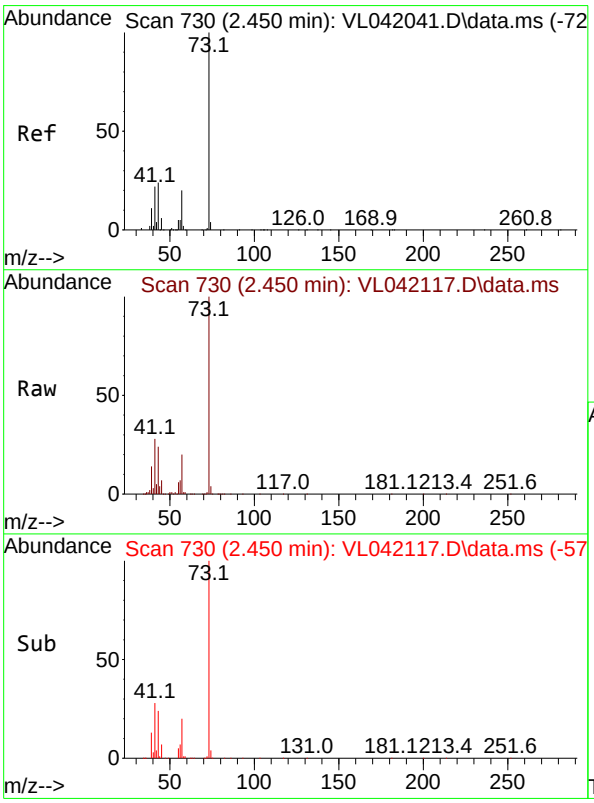
Ion	Ratio	Lower	Upper
76	100		
44	21.4	16.2	24.2
78	12.0	9.4	14.0



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

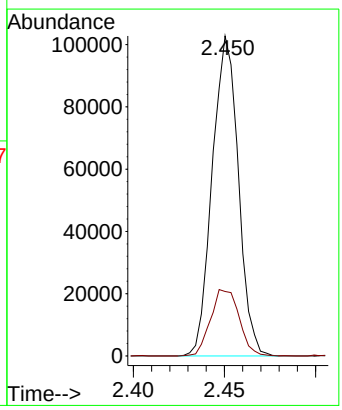
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

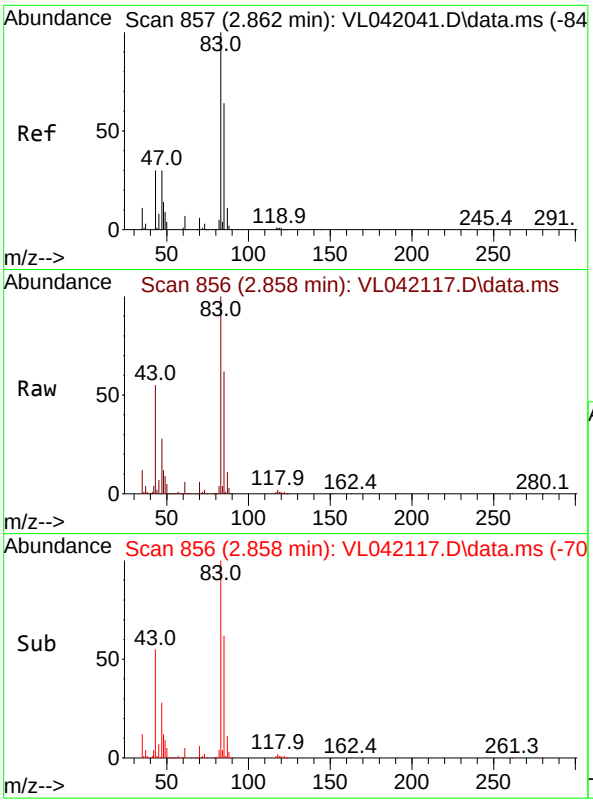


#28
Methyl tert-Butyl Ether
Concen: 8.503 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 73 Resp: 102132

Ion	Ratio	Lower	Upper
73	100		
57	22.8	17.7	26.5

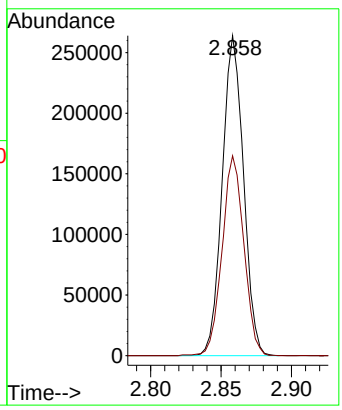




#29
Chloroform
Concen: 8.544 ppbv
RT: 2.858 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 83 Resp: 27742

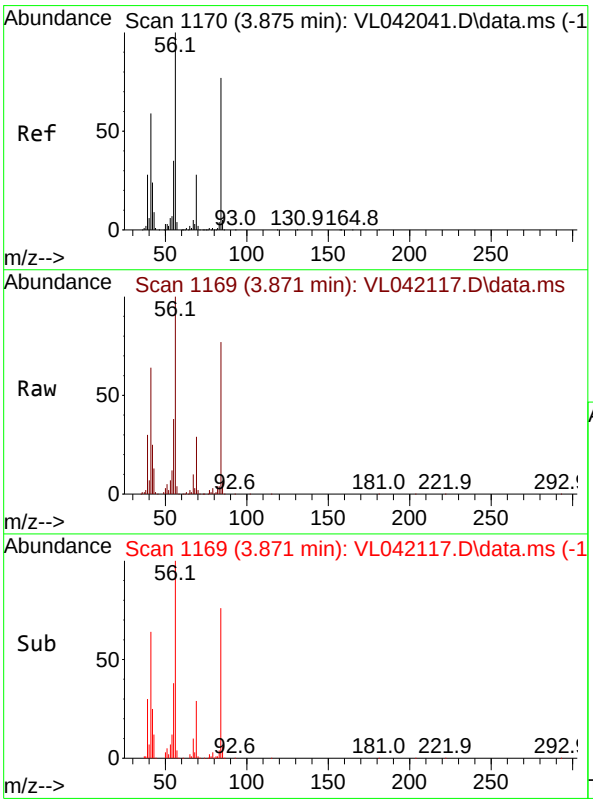
Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.2	76.8



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

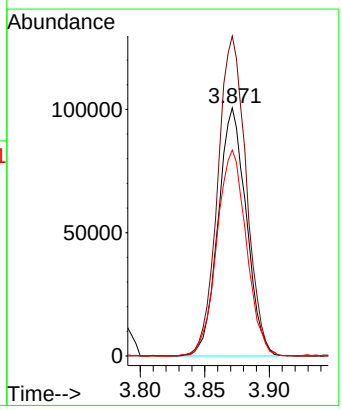
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

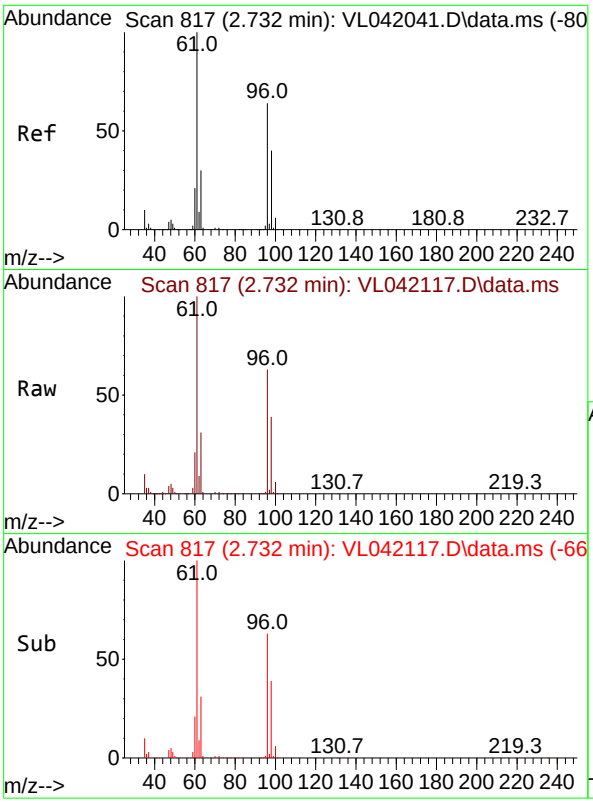


#30
Cyclohexane
Concen: 7.792 ppbv
RT: 3.871 min Scan# 1169
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 84 Resp: 152583

Ion	Ratio	Lower	Upper
84	100		
56	130.3	101.5	152.3
41	87.1	62.6	93.8

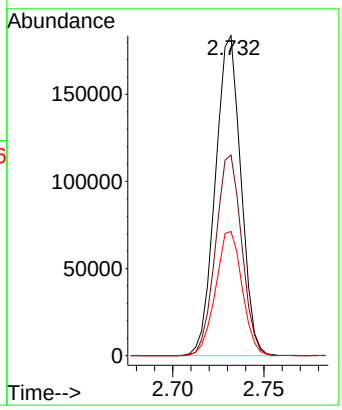




#31
cis-1,2-Dichloroethene
Concen: 7.856 ppbv
RT: 2.732 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 61 Resp: 17941

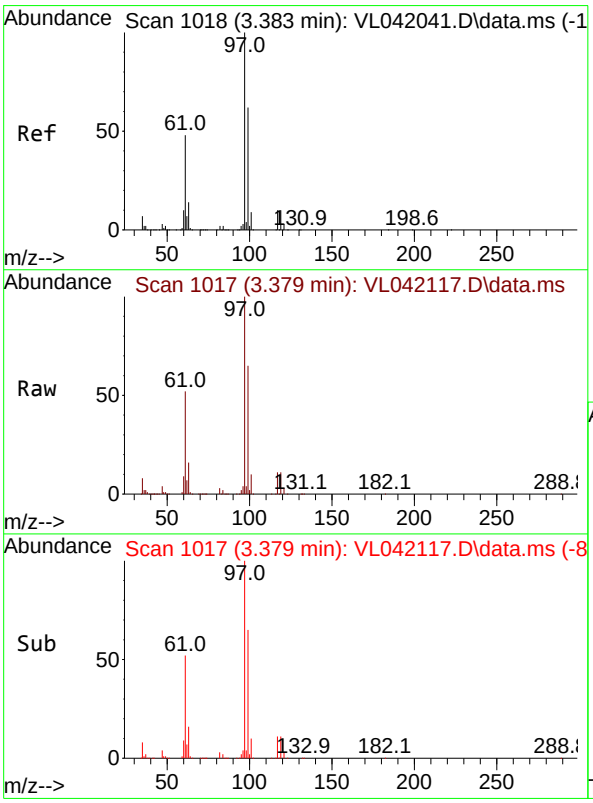
Ion	Ratio	Lower	Upper
61	100		
96	62.7	51.5	77.3
98	38.8	32.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

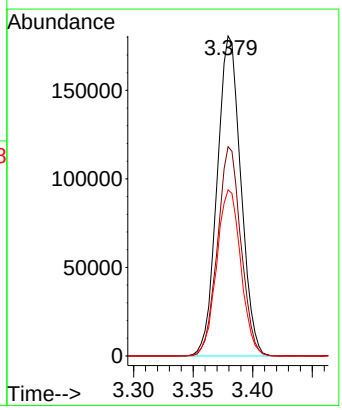
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

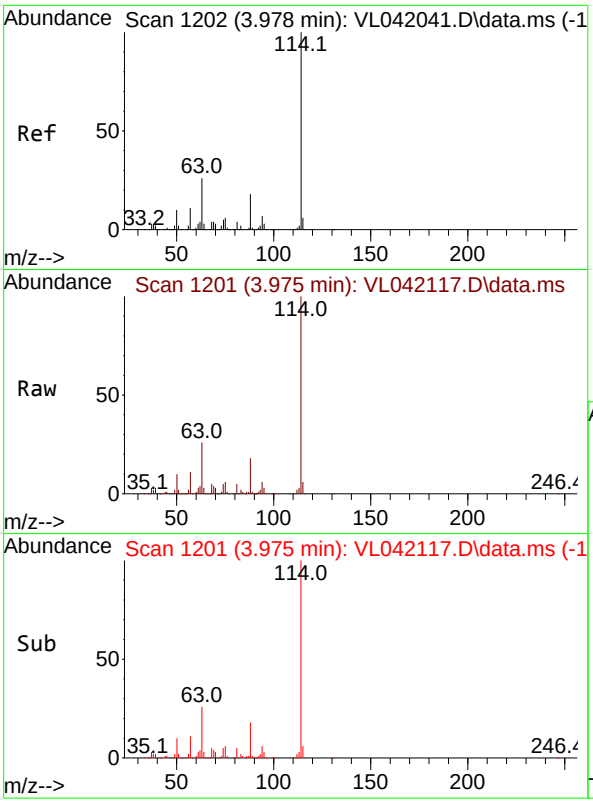


#32
1,1,1-Trichloroethane
Concen: 7.916 ppbv
RT: 3.379 min Scan# 1017
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 97 Resp: 249329

Ion	Ratio	Lower	Upper
97	100		
99	64.5	49.8	74.6
61	53.2	38.9	58.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

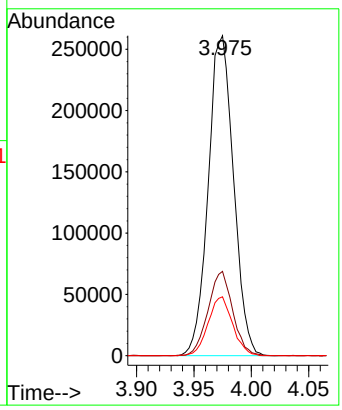
Tgt Ion:114 Resp: 40035

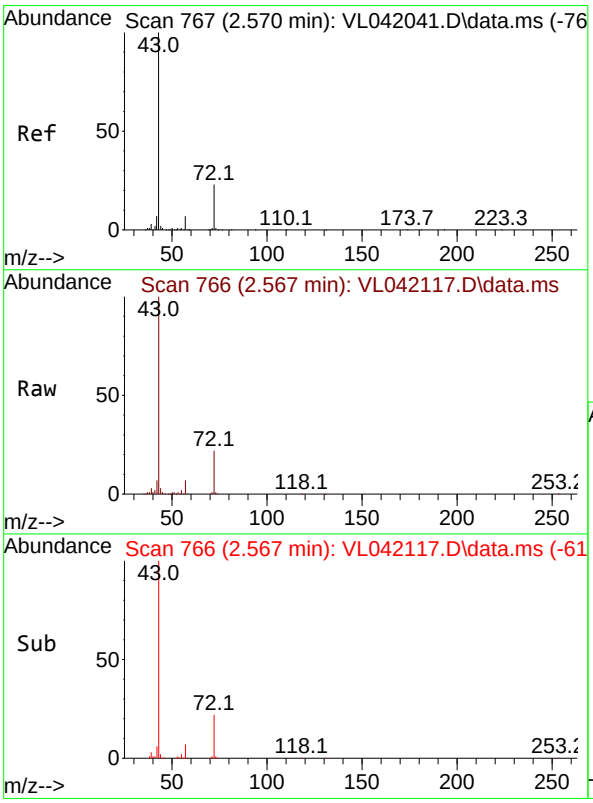
Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.1	30.1
88	17.8	14.3	21.5

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

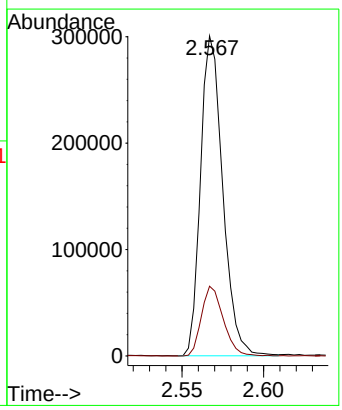


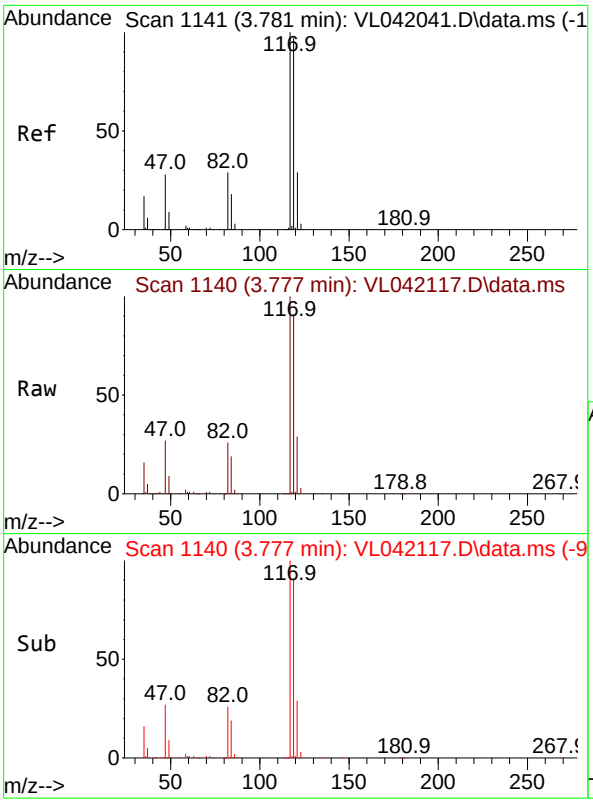


#34
2-Butanone
Concen: 9.118 ppbv
RT: 2.567 min Scan# 766
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 43 Resp: 284384

Ion	Ratio	Lower	Upper
43	100		
72	21.6	18.5	27.7

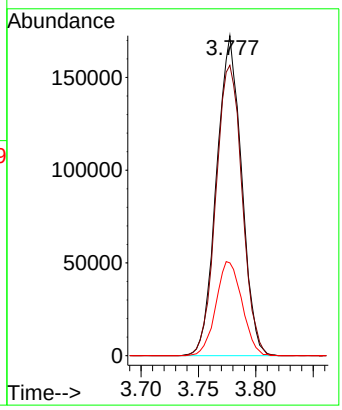




#35
Carbon Tetrachloride
Concen: 9.491 ppbv
RT: 3.777 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:117 Resp: 26202

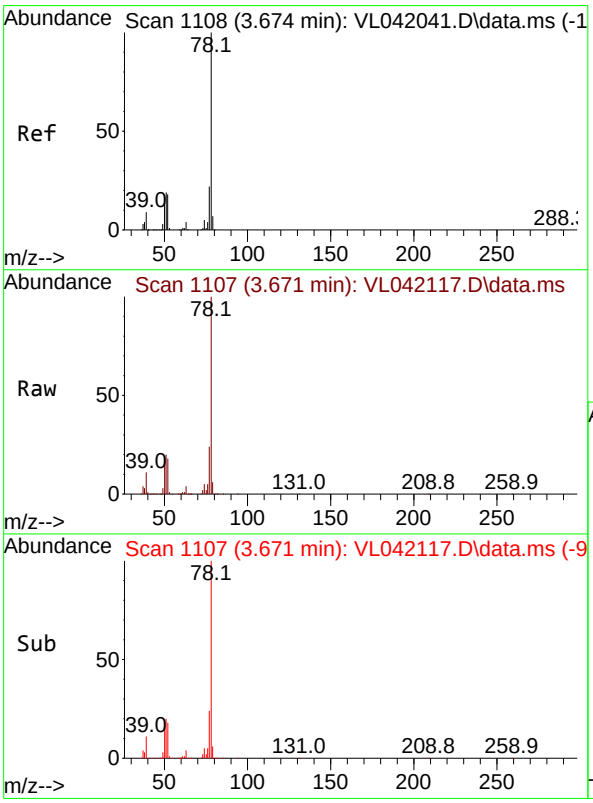
Ion	Ratio	Lower	Upper
117	100		
119	90.7	77.8	116.8
121	29.0	23.4	35.0



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

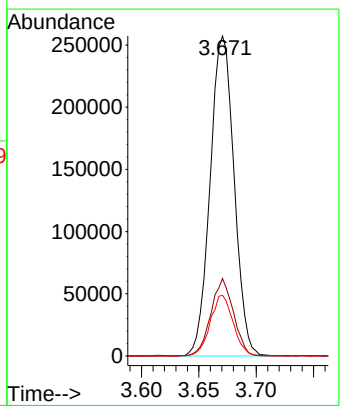
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

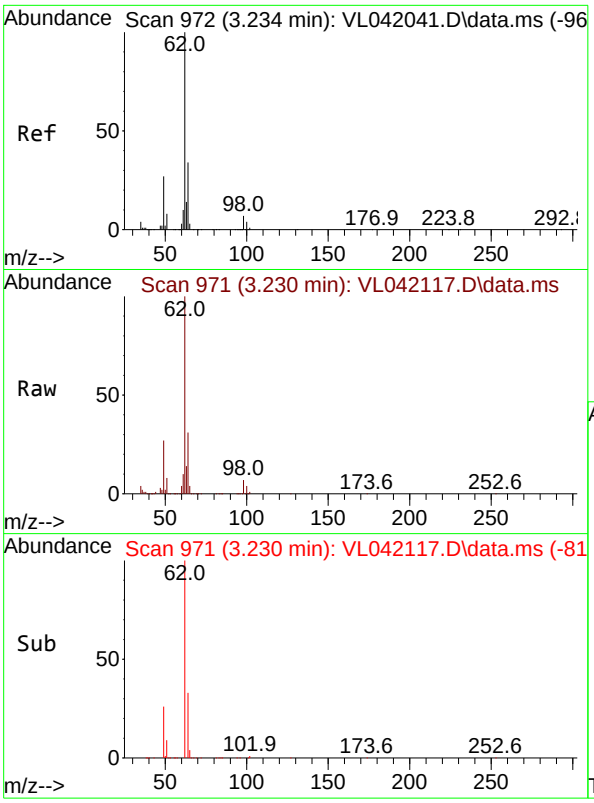


#36
Benzene
Concen: 8.937 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 78 Resp: 374551

Ion	Ratio	Lower	Upper
78	100		
77	24.1	17.7	26.5
50	18.9	13.9	20.9

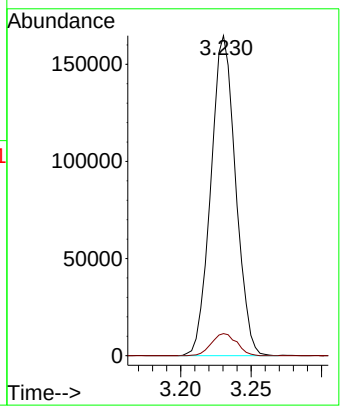




#37
1,2-Dichloroethane
Concen: 8.686 ppbv
RT: 3.230 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 62 Resp: 20183

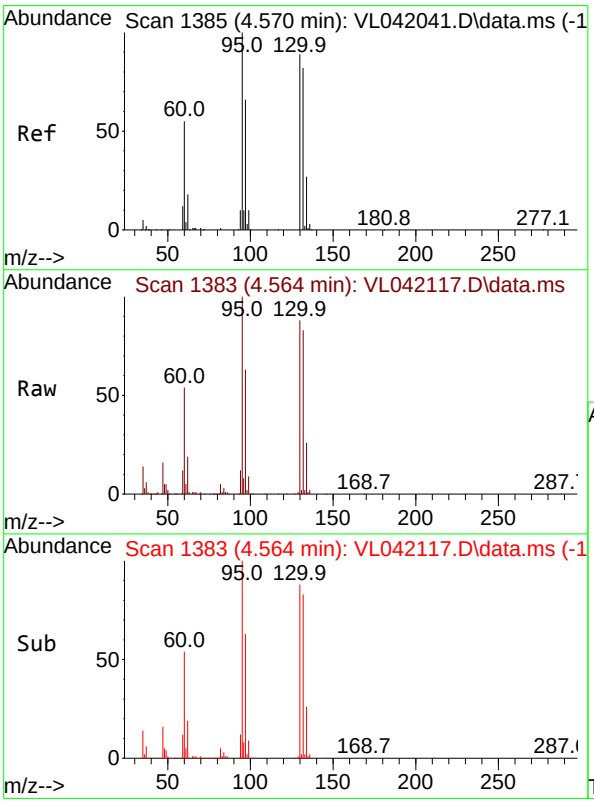
Ion	Ratio	Lower	Upper
62	100		
98	7.0	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

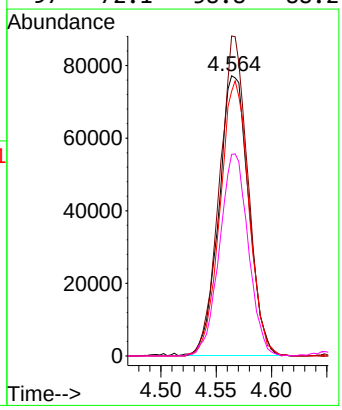
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

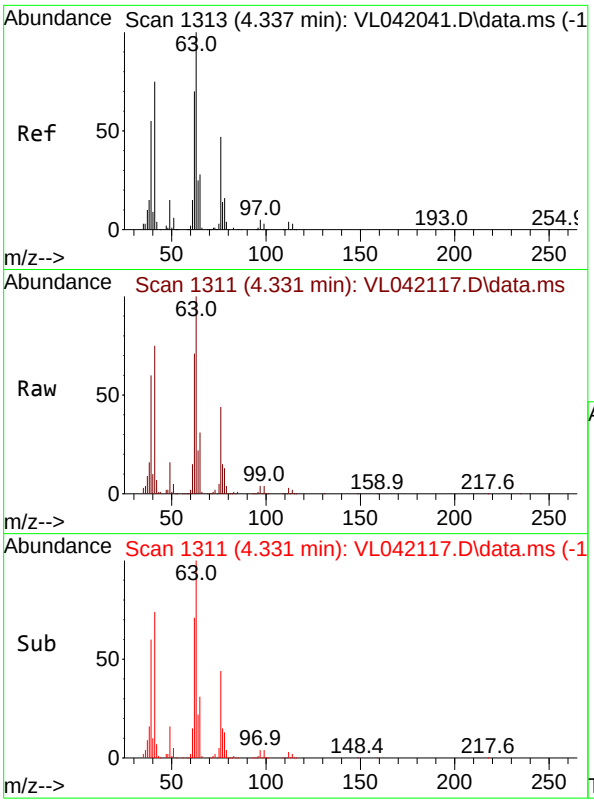


#38
Trichloroethene
Concen: 8.392 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:130 Resp: 143616

Ion	Ratio	Lower	Upper
130	100		
95	114.4	89.5	134.3
132	94.6	73.8	110.6
97	72.1	58.8	88.2

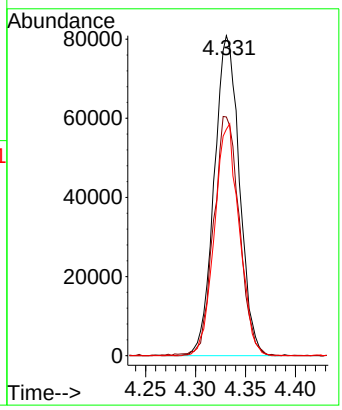




#39
1,2-Dichloropropane
Concen: 8.909 ppbv
RT: 4.331 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 63 Resp: 14172

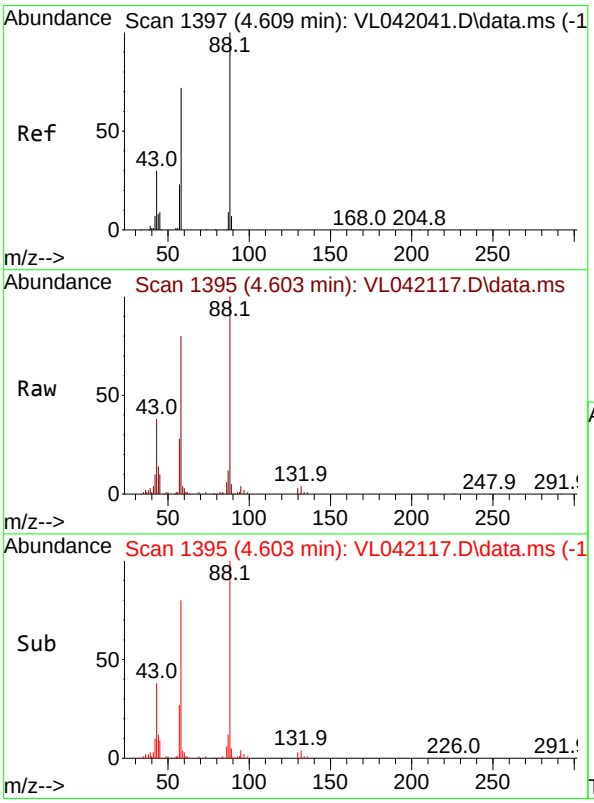
Ion	Ratio	Lower	Upper
63	100		
41	74.5	60.1	90.1
62	70.8	55.8	83.8



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

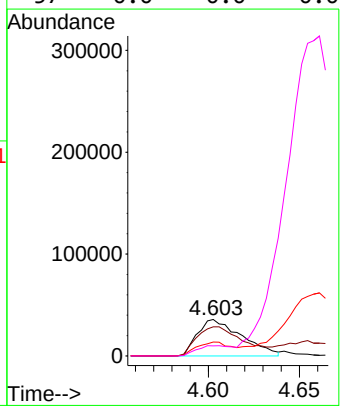
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

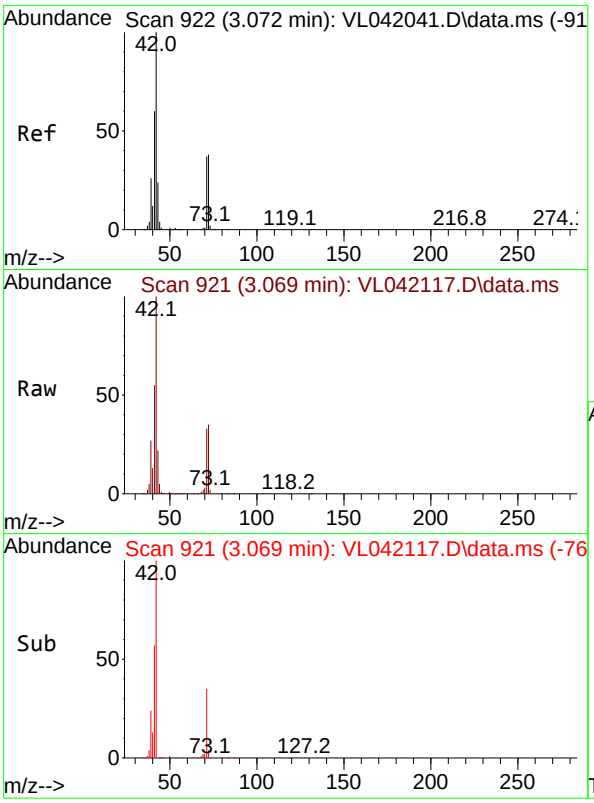


#40
1,4-Dioxane
Concen: 8.321 ppbv
RT: 4.603 min Scan# 1395
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 88 Resp: 60426

Ion	Ratio	Lower	Upper
88	100		
58	89.1	62.6	94.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0

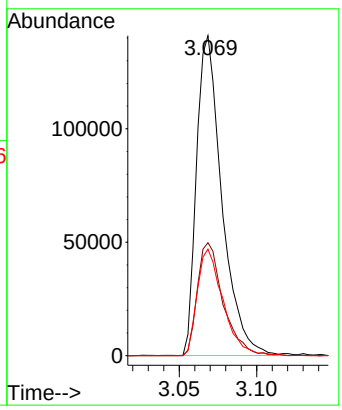




#41
Tetrahydrofuran
Concen: 8.728 ppbv
RT: 3.069 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 42 Resp: 16085

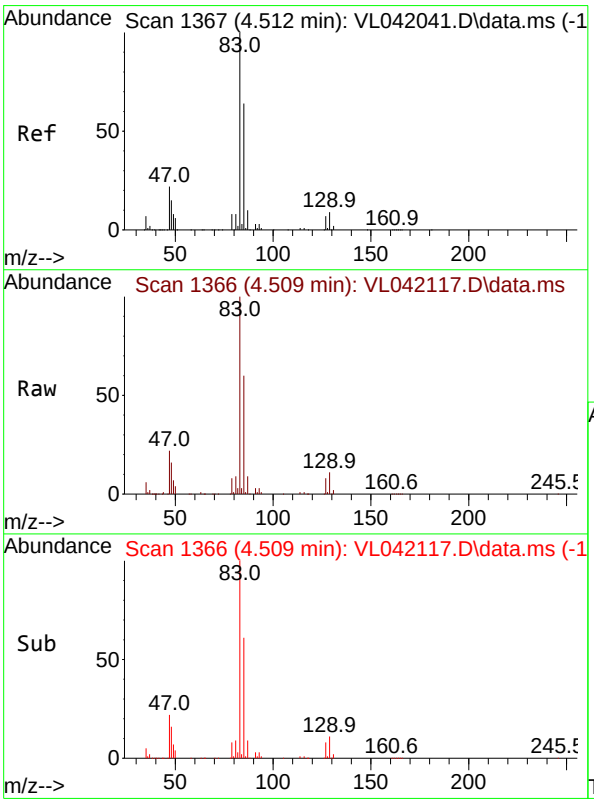
Ion	Ratio	Lower	Upper
42	100		
72	36.0	30.2	45.2
71	34.0	28.2	42.4



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

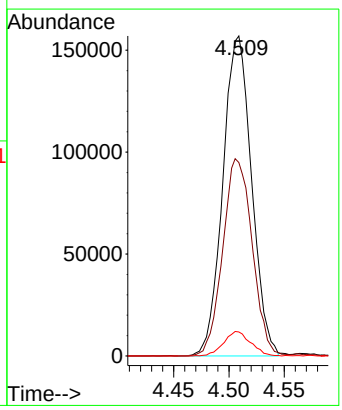
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

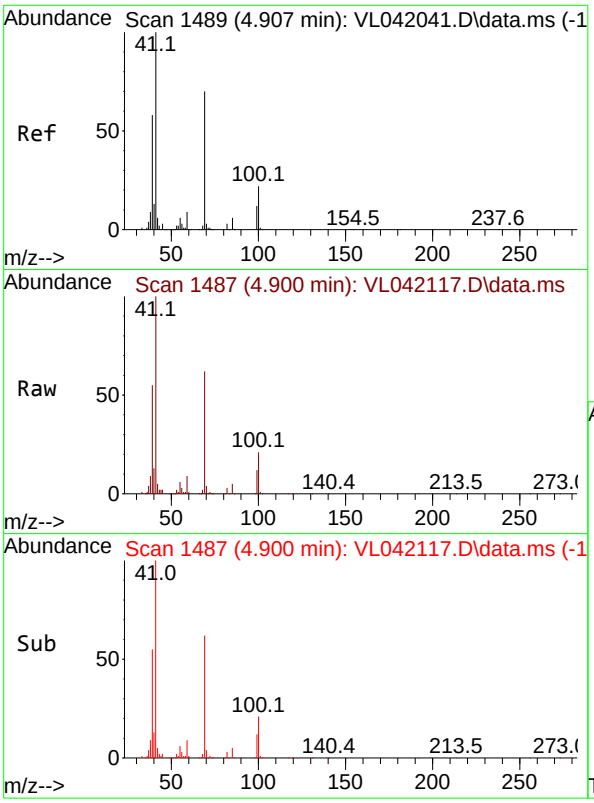


#42
Bromodichloromethane
Concen: 9.063 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 83 Resp: 283730

Ion	Ratio	Lower	Upper
83	100		
85	60.4	51.4	77.2
127	7.5	5.8	8.6

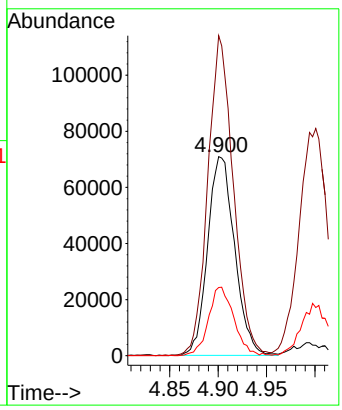




#43
Methyl Methacrylate
Concen: 8.395 ppbv
RT: 4.900 min Scan# 14
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 69 Resp: 13740

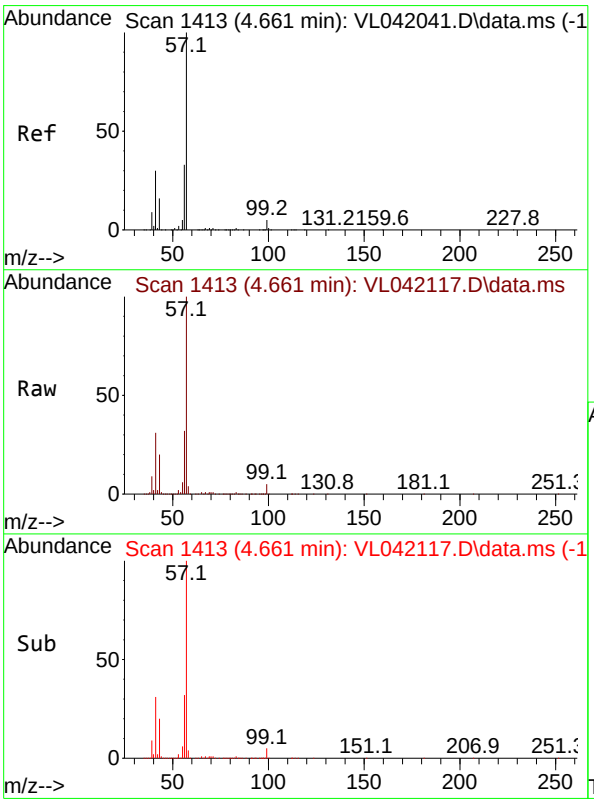
Ion	Ratio	Lower	Upper
69	100		
41	152.0	118.2	177.4
100	32.6	27.0	40.4



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

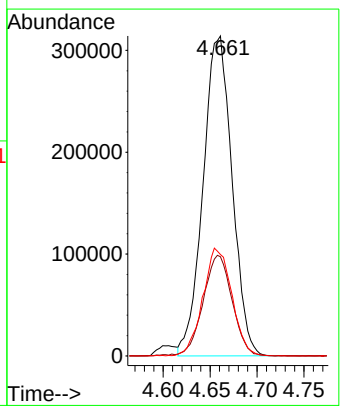
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

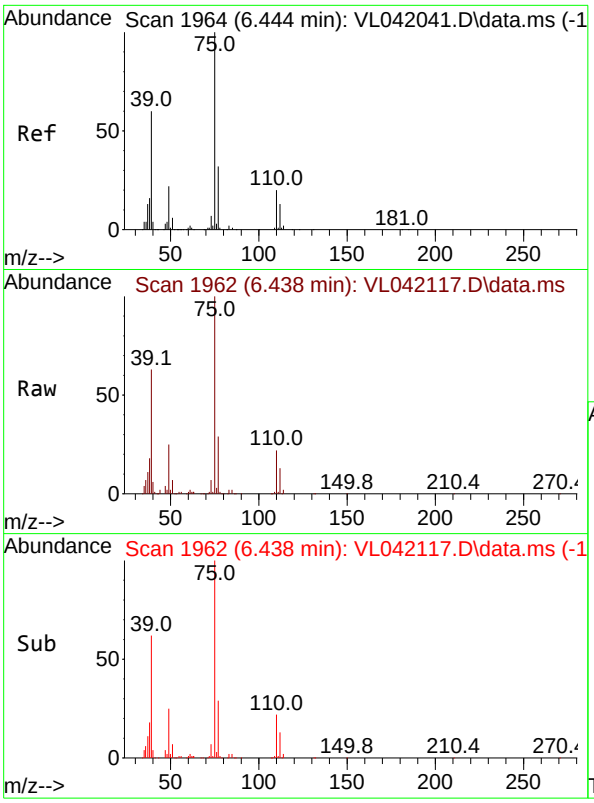


#44
2,2,4-Trimethylpentane
Concen: 9.131 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 57 Resp: 675434

Ion	Ratio	Lower	Upper
57	100		
41	31.6	24.4	36.6
56	33.6	26.5	39.7

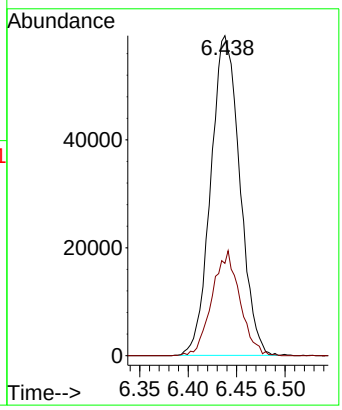




#45
t-1,3-Dichloropropene
Concen: 7.598 ppbv
RT: 6.438 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 75 Resp: 12354

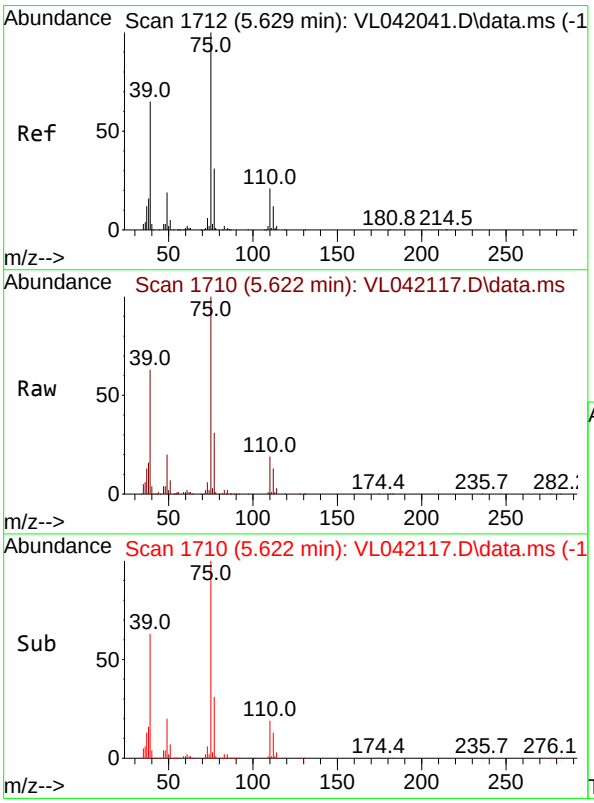
Ion	Ratio	Lower	Upper
75	100		
77	28.8	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

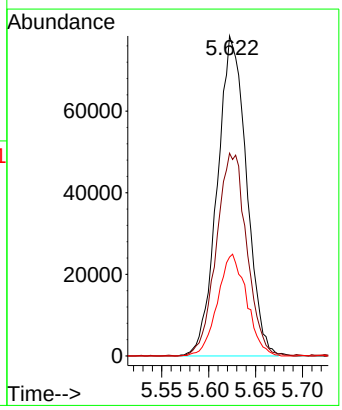
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

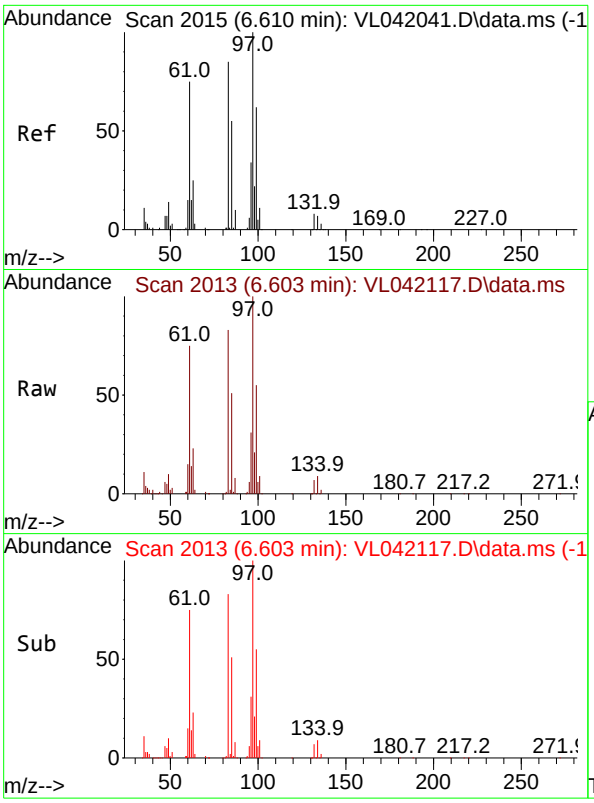


#46
cis-1,3-Dichloropropene
Concen: 8.063 ppbv
RT: 5.622 min Scan# 1710
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 75 Resp: 169656

Ion	Ratio	Lower	Upper
75	100		
39	63.3	51.9	77.9
77	30.9	24.9	37.3

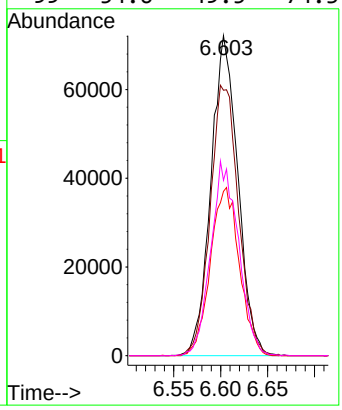




#47
1,1,2-Trichloroethane
Concen: 8.925 ppbv
RT: 6.603 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 97 Resp: 14414

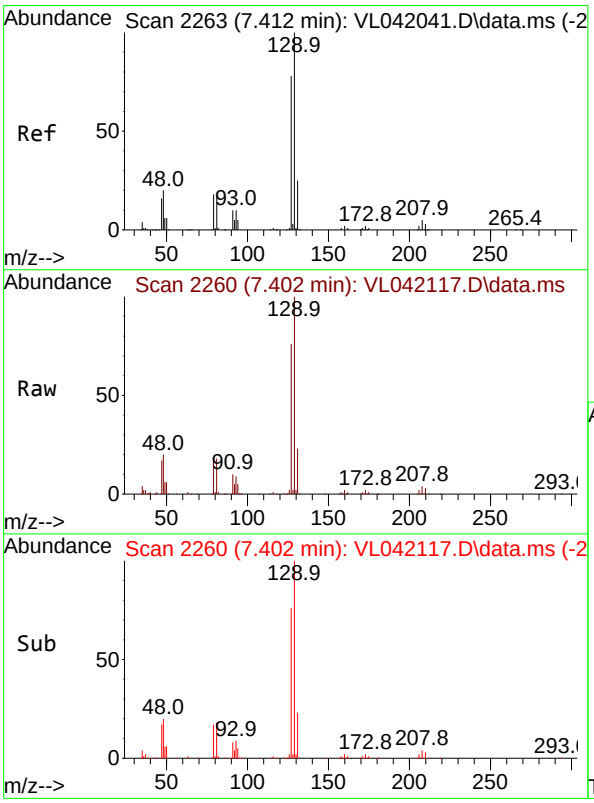
Ion	Ratio	Lower	Upper
97	100		
83	82.9	68.1	102.1
85	51.3	44.0	66.0
99	54.6	49.5	74.3



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

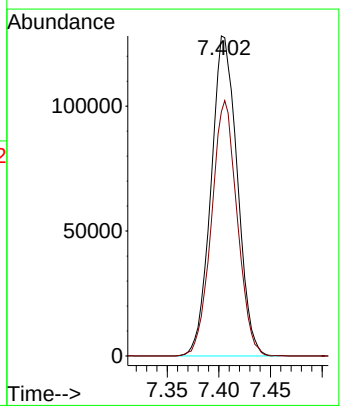
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

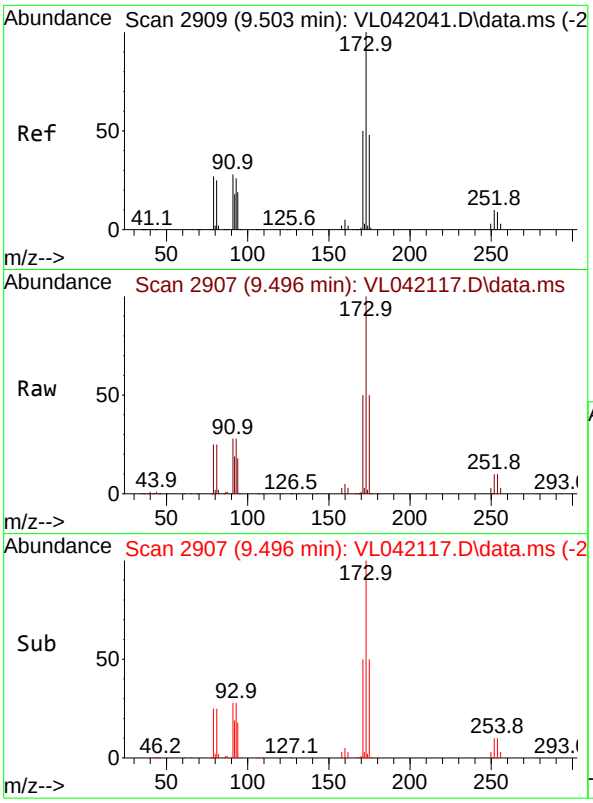


#48
Dibromochloromethane
Concen: 8.951 ppbv
RT: 7.402 min Scan# 2260
Delta R.T. -0.010 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:129 Resp: 226388

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.8

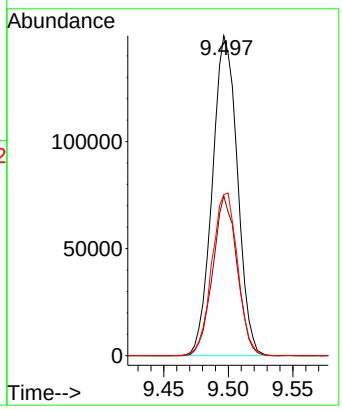




#49
Bromoform
Concen: 9.188 ppbv
RT: 9.496 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:173 Resp: 20180

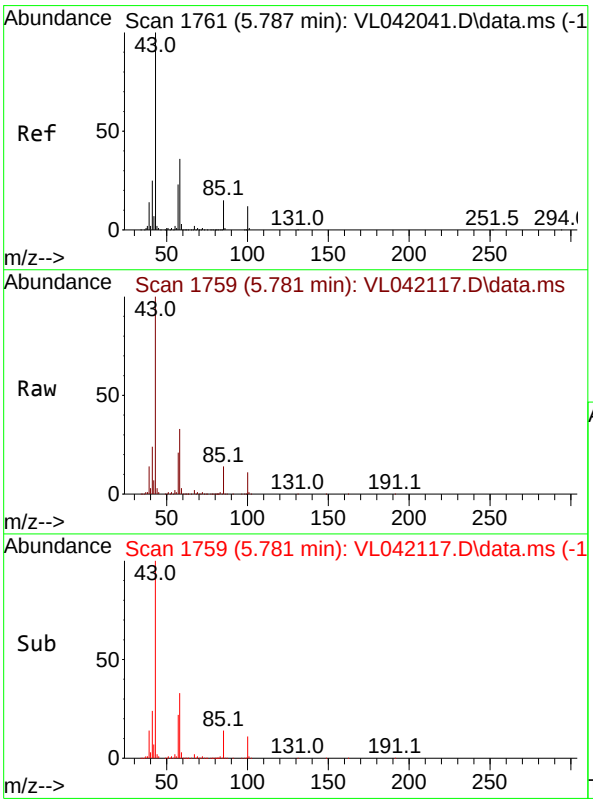
Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.3	57.5
171	52.1	40.2	60.2



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

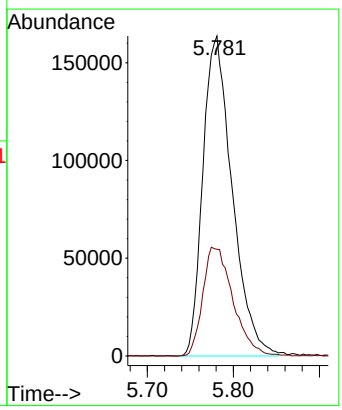
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

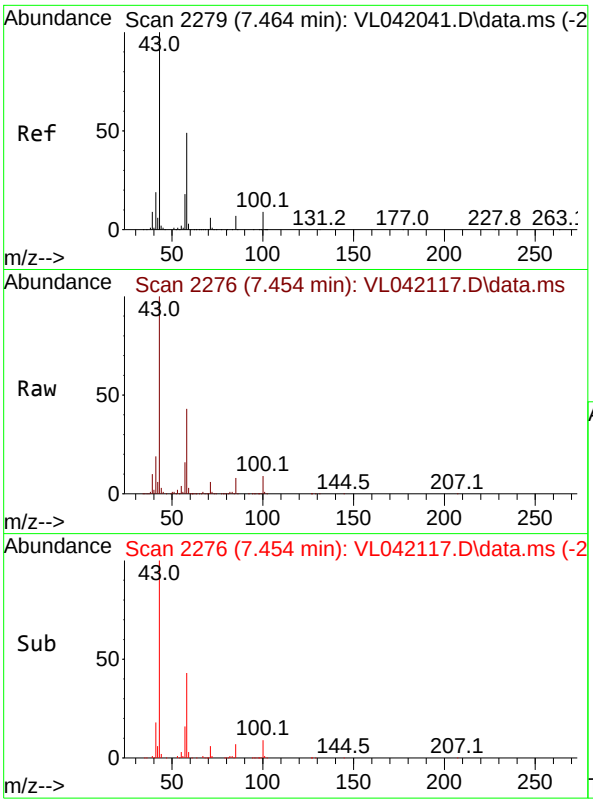


#50
4-Methyl-2-Pentanone
Concen: 9.603 ppbv
RT: 5.781 min Scan# 1759
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 43 Resp: 387370

Ion	Ratio	Lower	Upper
43	100		
58	35.1	29.3	43.9

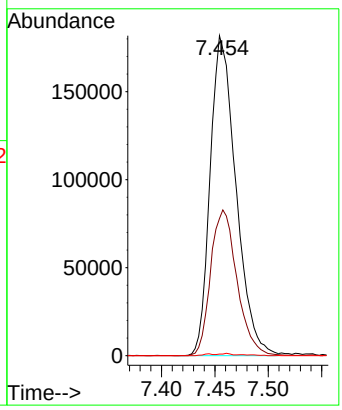




#51
2-Hexanone
Concen: 11.007 ppbv
RT: 7.454 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 43 Resp: 30557

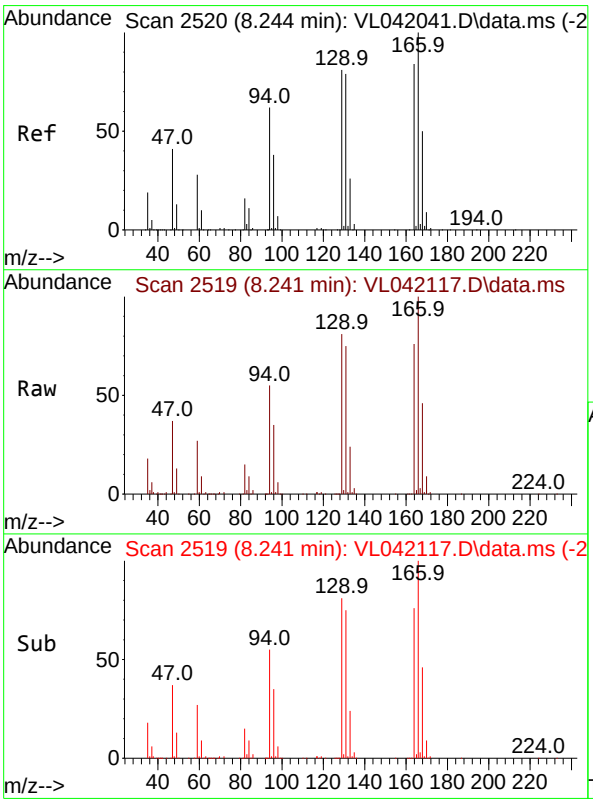
Ion	Ratio	Lower	Upper
43	100		
58	46.7	39.0	58.6
98	0.8	0.1	0.1#



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

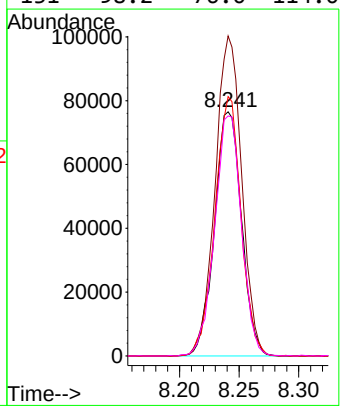
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

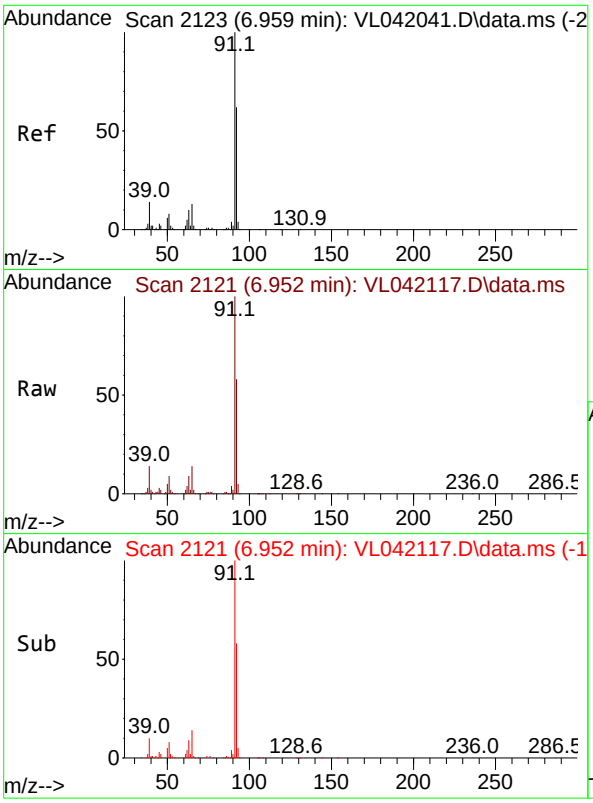


#52
Tetrachloroethene
Concen: 8.398 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:164 Resp: 120494

Ion	Ratio	Lower	Upper
164	100		
166	131.1	95.7	143.5
129	106.2	77.1	115.7
131	98.2	76.0	114.0

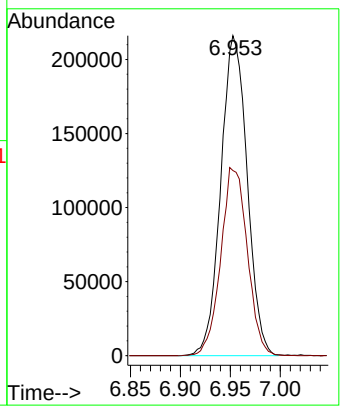




#53
Toluene
Concen: 8.456 ppbv
RT: 6.952 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 39609

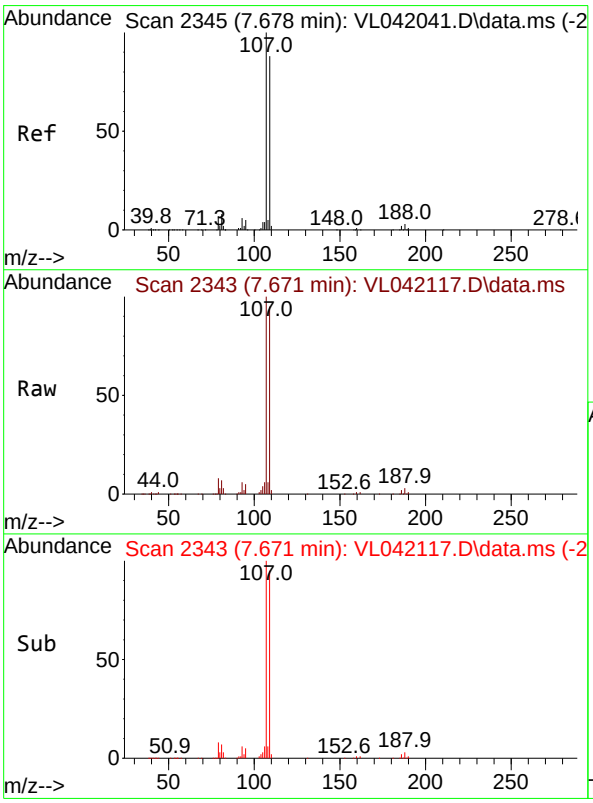
Ion	Ratio	Lower	Upper
91	100		
92	59.3	49.0	73.6



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

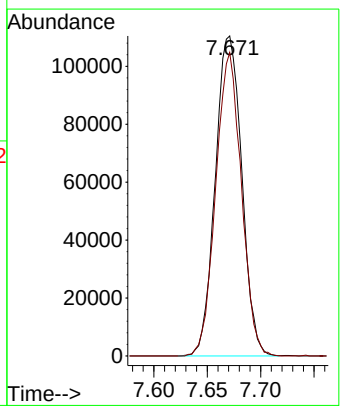
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

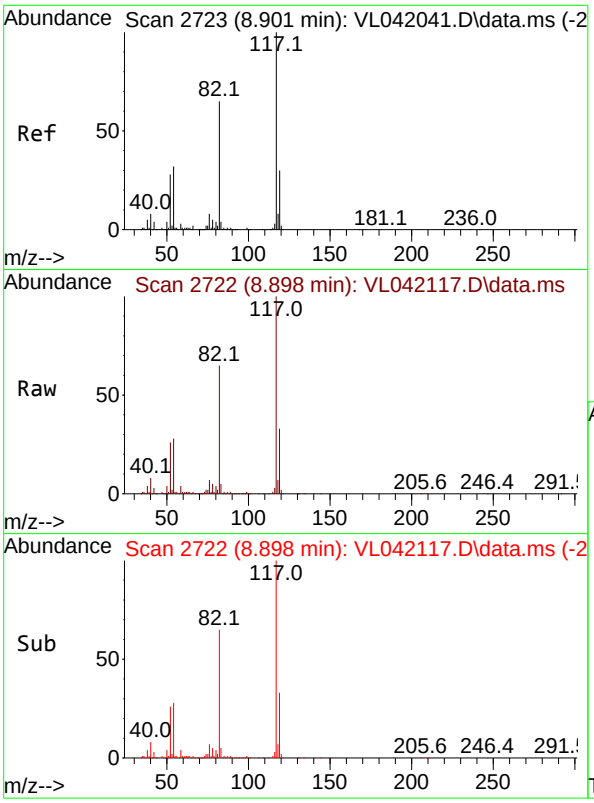


#54
1,2-Dibromoethane
Concen: 8.732 ppbv
RT: 7.671 min Scan# 2343
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:107 Resp: 190659

Ion	Ratio	Lower	Upper
107	100		
109	94.8	70.2	105.4

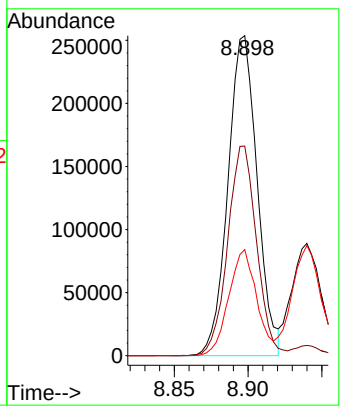




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:117 Resp: 35046

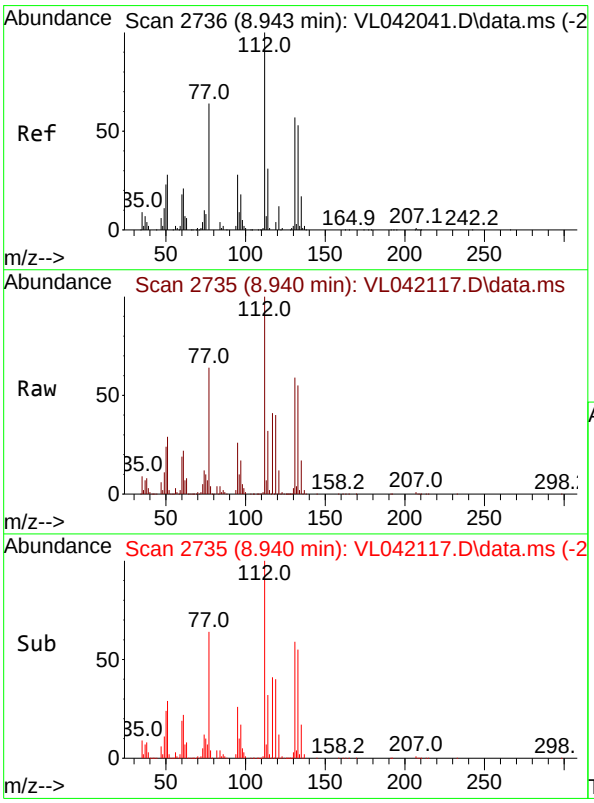
Ion	Ratio	Lower	Upper
117	100		
82	67.6	55.0	82.6
119	31.8	25.9	38.9



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

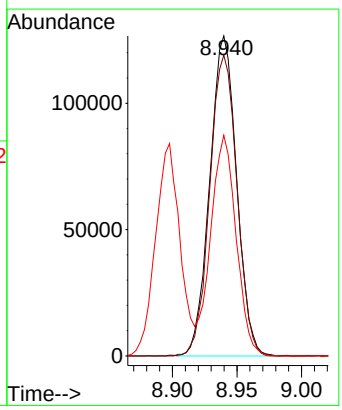
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

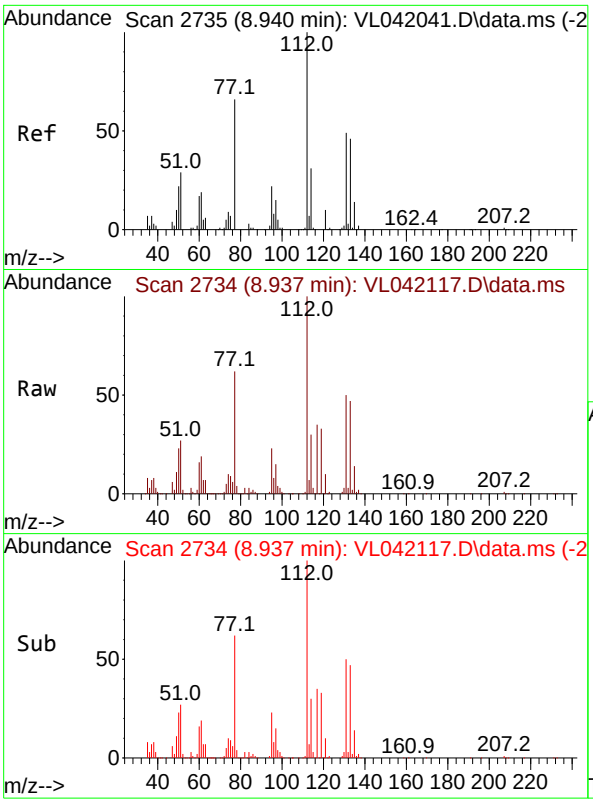


#56
1,1,1,2-Tetrachloroethane
Concen: 9.240 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:131 Resp: 183026

Ion	Ratio	Lower	Upper
131	100		
133	95.3	75.8	113.8
119	65.2	52.1	78.1

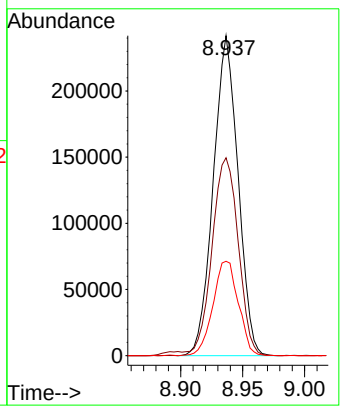




#57
Chlorobenzene
Concen: 9.258 ppbv
RT: 8.937 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:112 Resp: 33640

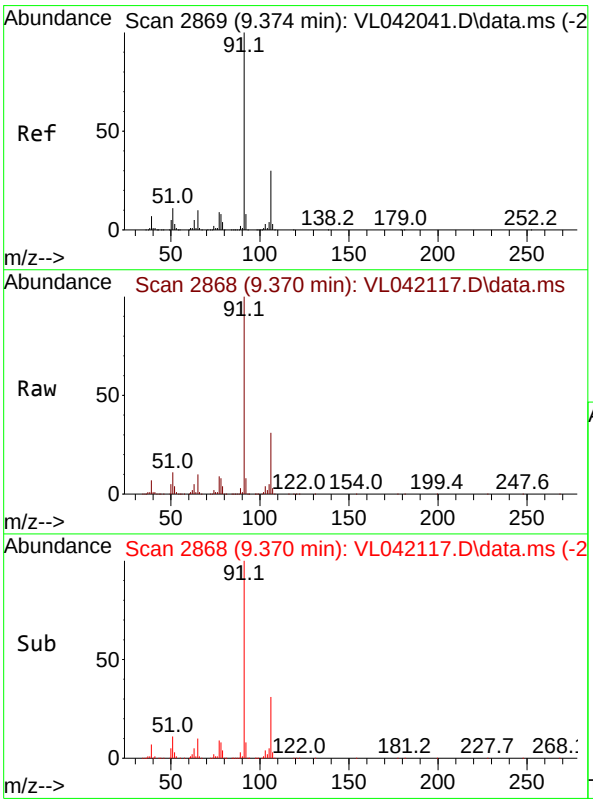
Ion	Ratio	Lower	Upper
112	100		
77	61.8	53.4	80.2
114	29.5	28.3	34.5



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

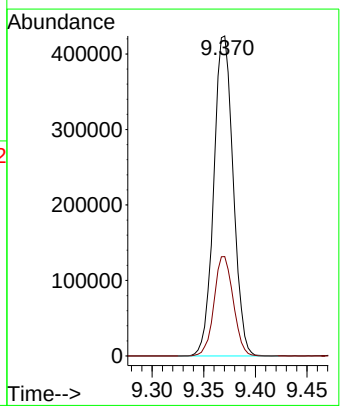
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

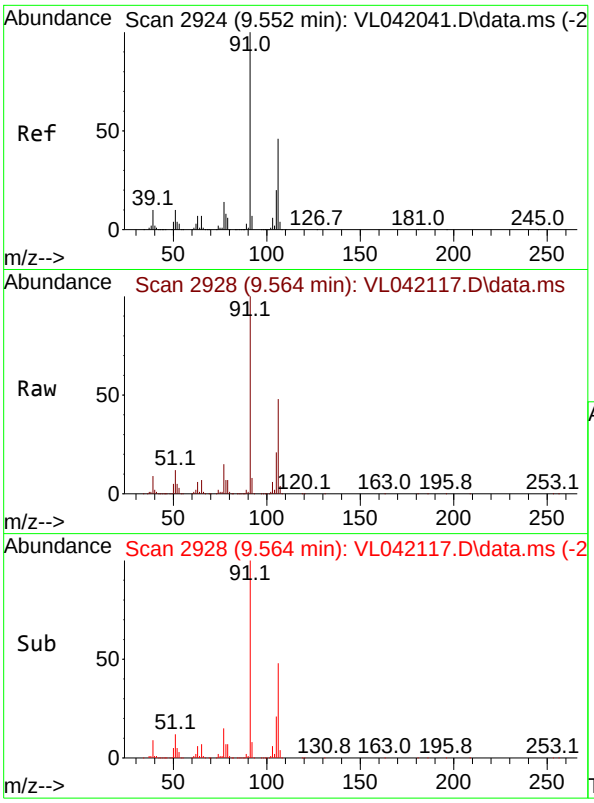


#58
Ethyl Benzene
Concen: 8.590 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 554446

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.2	36.2

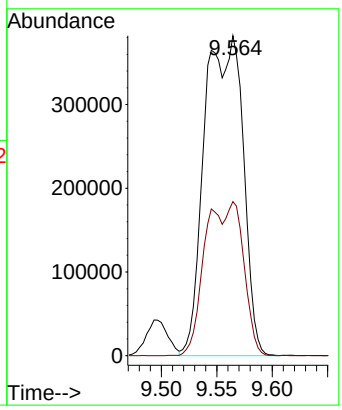




#59
m/p-Xylene
Concen: 18.022 ppbv m
RT: 9.564 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 92565

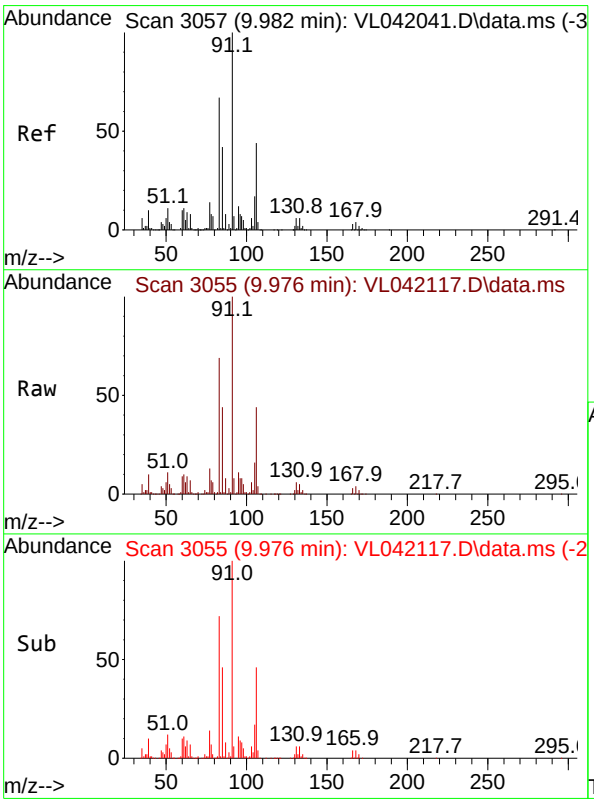
Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

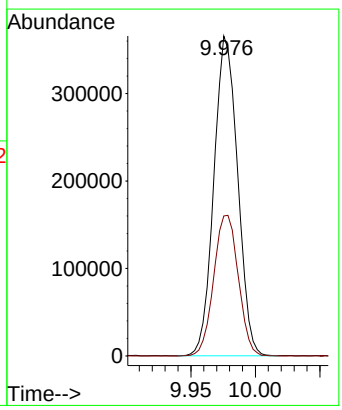
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

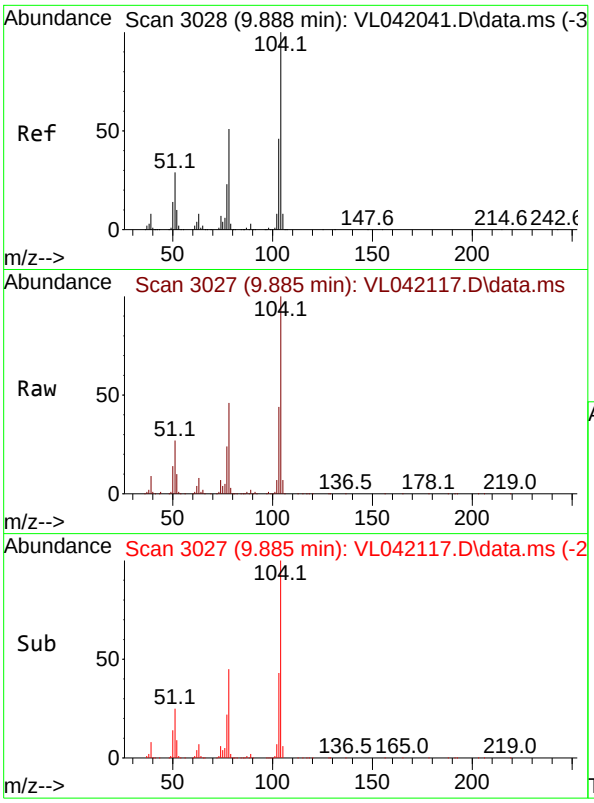


#60
o-Xylene
Concen: 9.052 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 467382

Ion	Ratio	Lower	Upper
91	100		
106	45.6	22.3	66.8

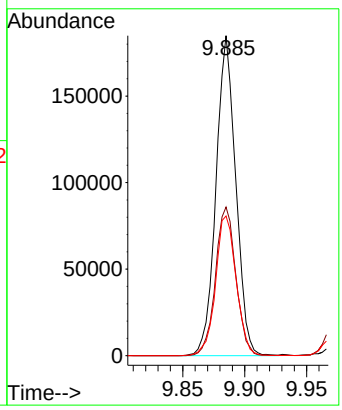




#61
Styrene
Concen: 8.469 ppbv
RT: 9.885 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:104 Resp: 20560

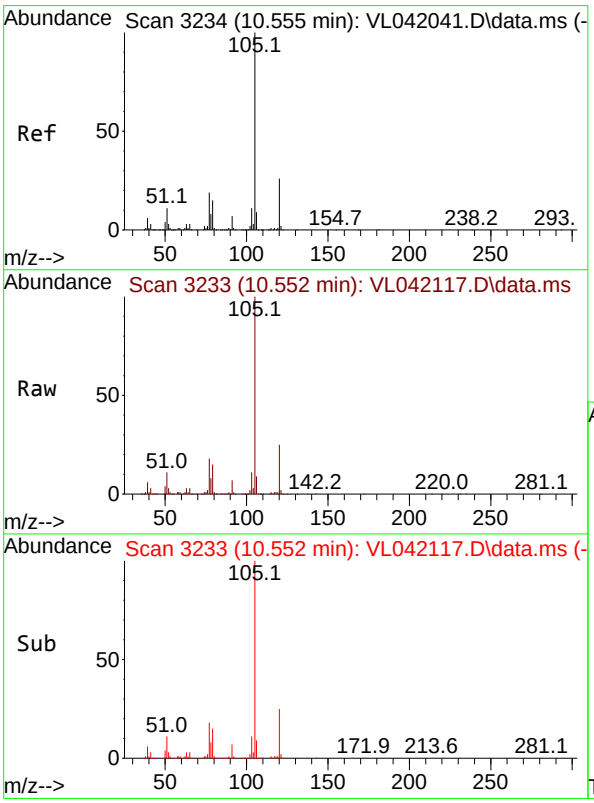
Ion	Ratio	Lower	Upper
104	100		
78	48.1	41.0	61.4
103	45.6	37.0	55.6



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

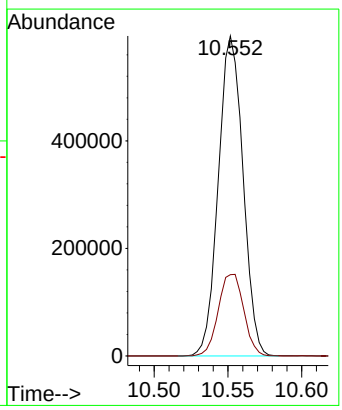
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

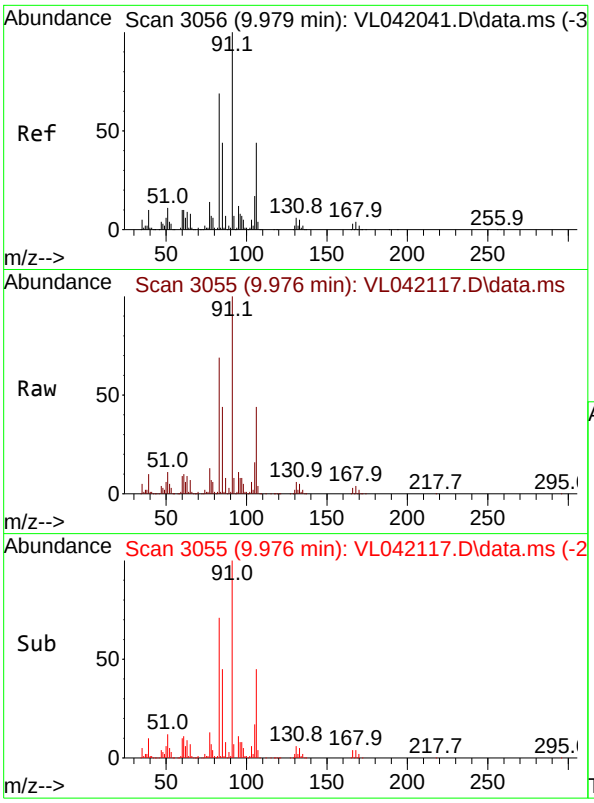


#62
Isopropylbenzene
Concen: 8.950 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:105 Resp: 692094

Ion	Ratio	Lower	Upper
105	100		
120	26.4	20.7	31.1

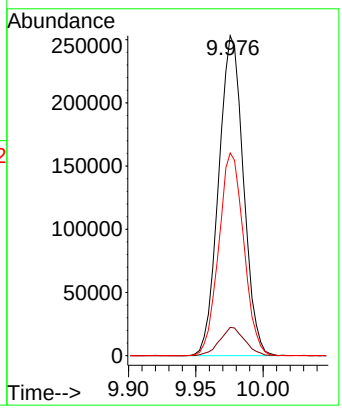




#63
1,1,2,2-Tetrachloroethane
Concen: 9.504 ppbv
RT: 9.976 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 83 Resp: 32319

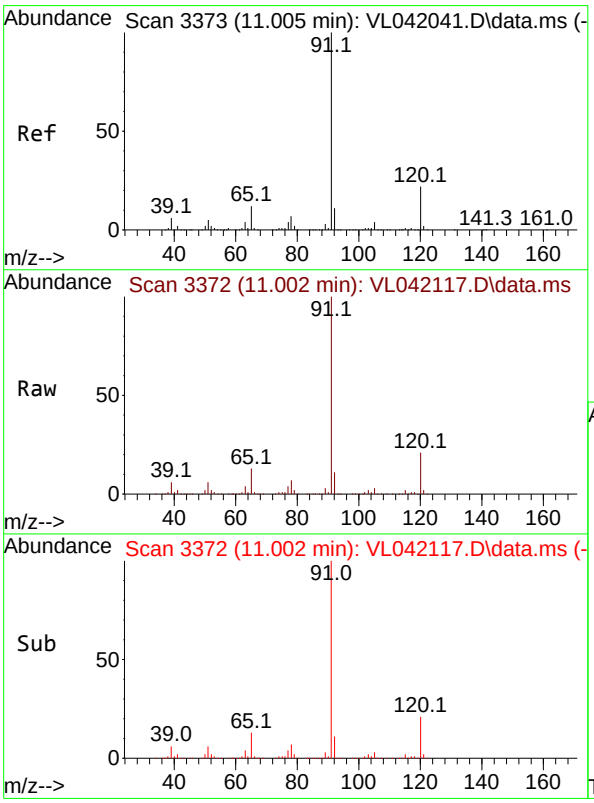
Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.7
85	64.0	32.1	96.3



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

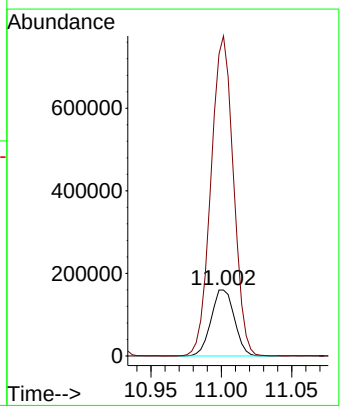
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

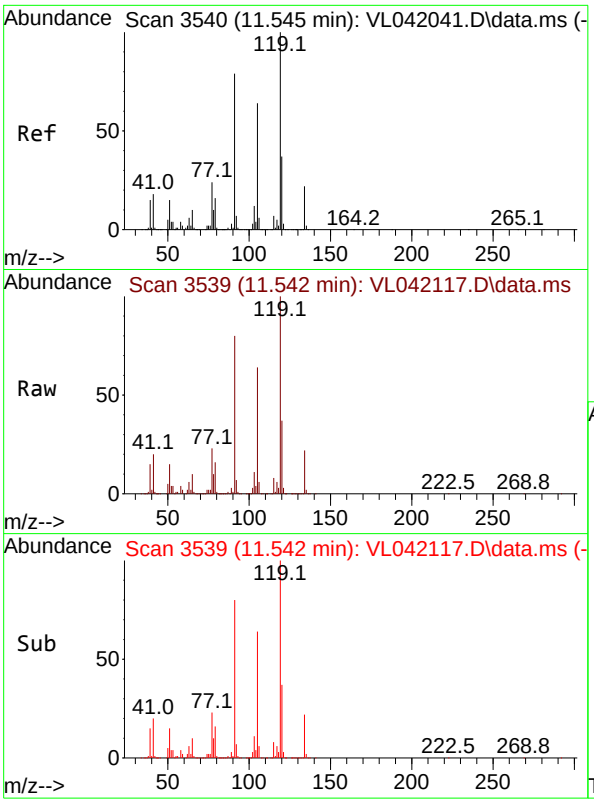


#64
n-propylbenzene
Concen: 9.081 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:120 Resp: 184209

Ion	Ratio	Lower	Upper
120	100		
91	466.7	370.6	556.0

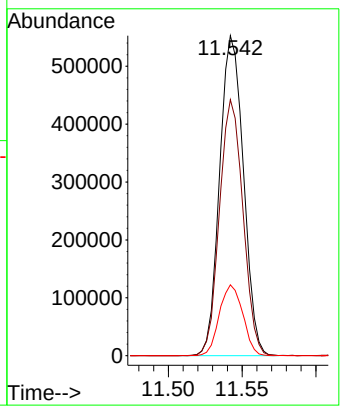




#65
tert-Butylbenzene
Concen: 8.814 ppbv
RT: 11.542 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:119 Resp: 62035

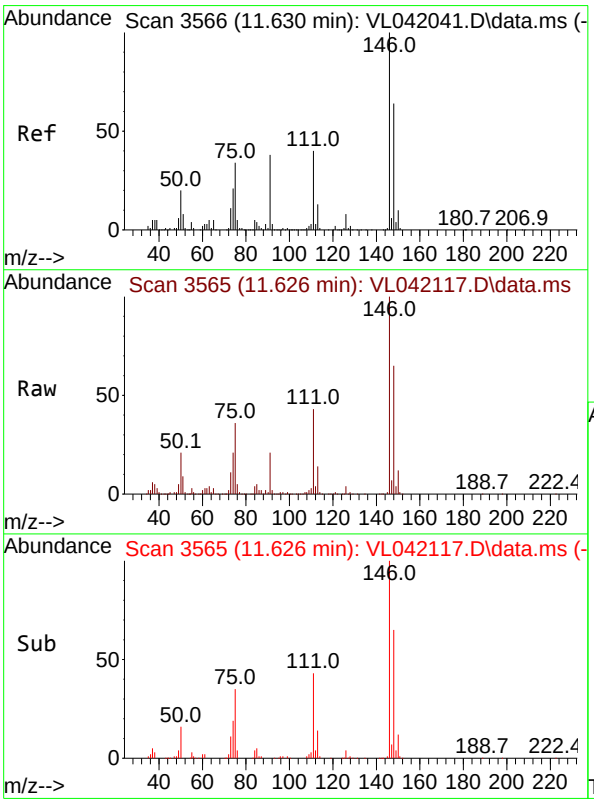
Ion	Ratio	Lower	Upper
119	100		
91	79.1	64.2	96.2
134	21.8	17.4	26.2



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

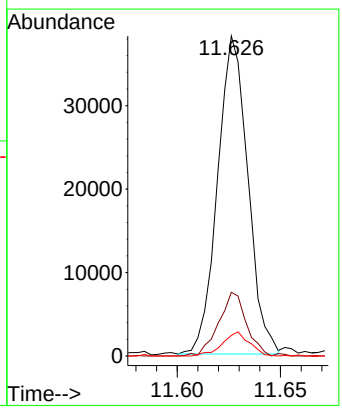
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

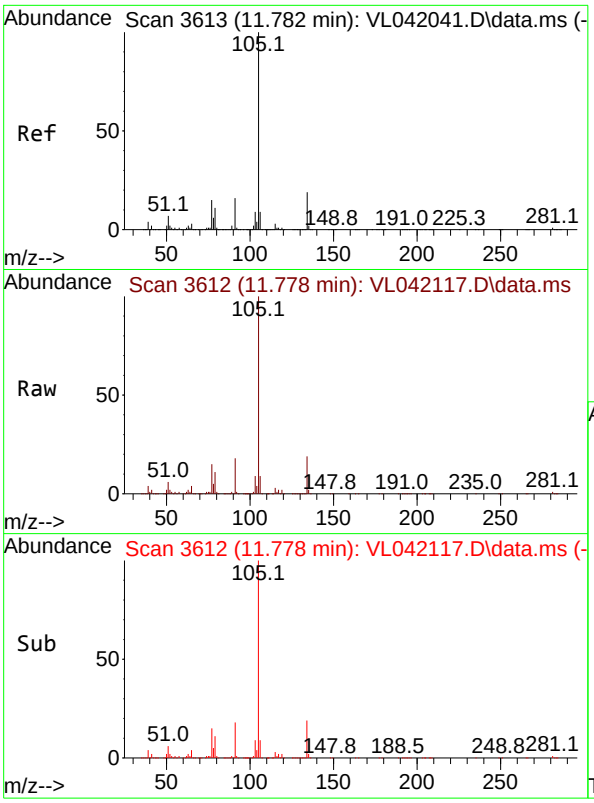


#66
Benzyl Chloride
Concen: 7.252 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 38948

Ion	Ratio	Lower	Upper
91	100		
126	18.4	14.5	21.7
128	6.8	5.4	8.2

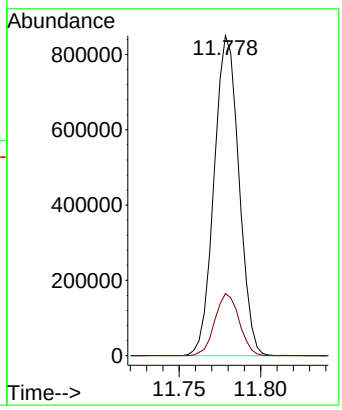




#67
sec-Butylbenzene
Concen: 8.942 ppbv
RT: 11.778 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:105 Resp: 90000

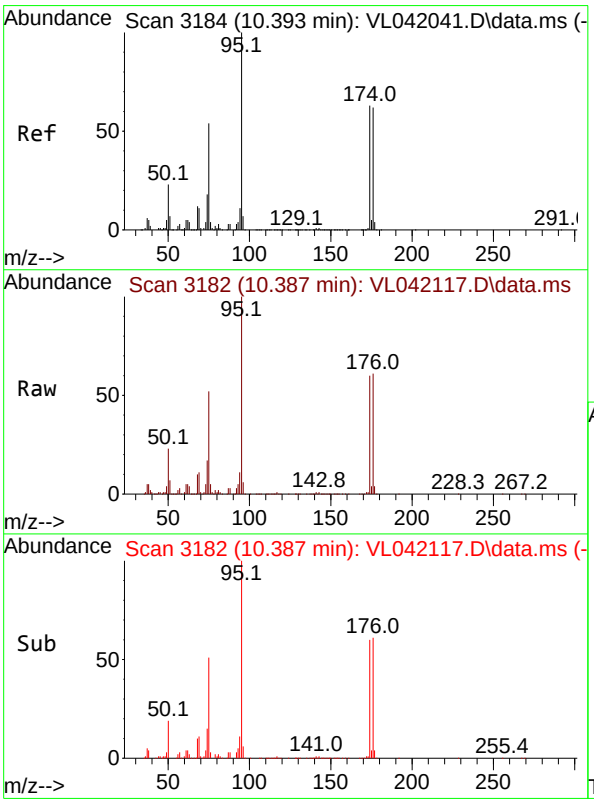
Ion	Ratio	Lower	Upper
105	100		
134	19.1	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

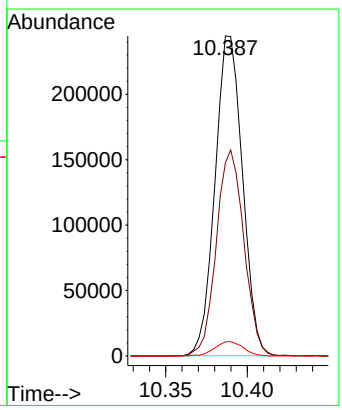
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

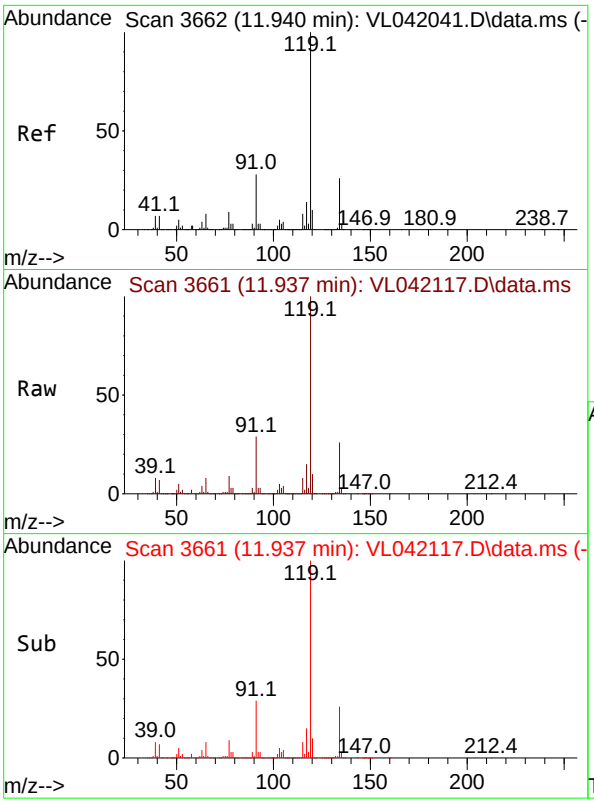


#68
1-Bromo-4-Fluorobenzene
Concen: 10.641 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 95 Resp: 286905

Ion	Ratio	Lower	Upper
95	100		
174	64.6	51.8	77.6
175	4.7	3.9	5.9





#69
p-Isopropyltoluene
Concen: 9.145 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

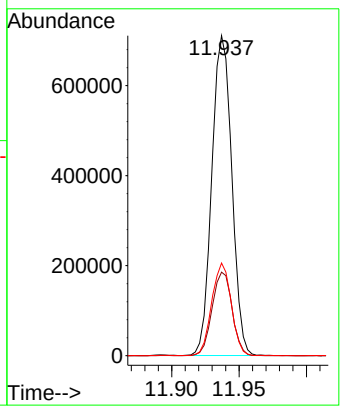
Tgt Ion:119 Resp: 73233

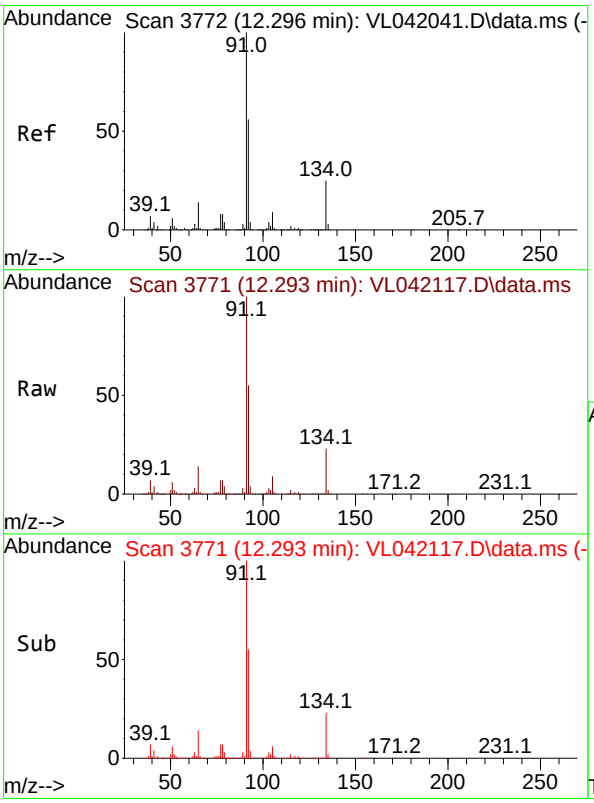
Ion	Ratio	Lower	Upper
119	100		
134	26.3	20.9	31.3
91	28.3	23.1	34.7

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

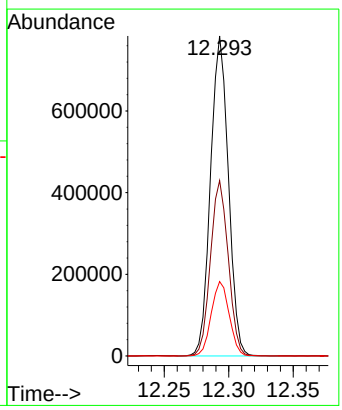


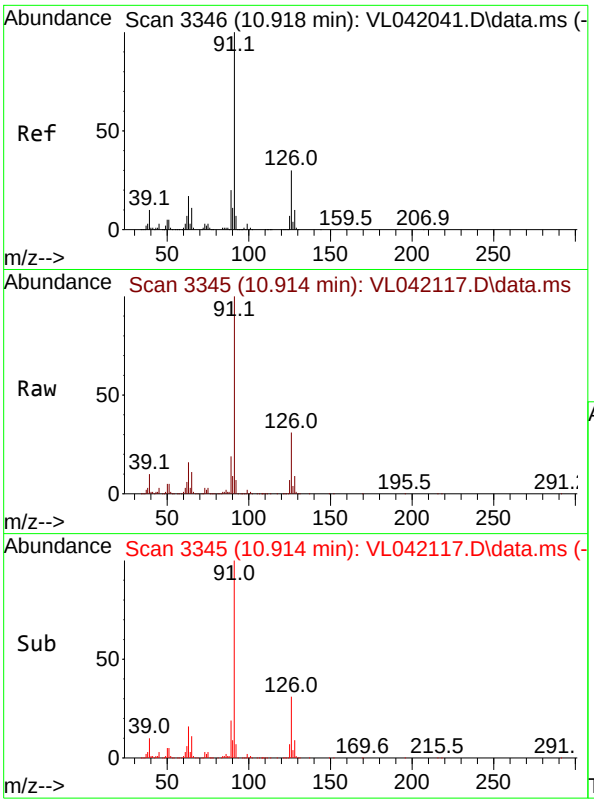


#70
n-Butylbenzene
Concen: 9.208 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 752707

Ion	Ratio	Lower	Upper
91	100		
92	54.6	44.7	67.1
134	23.4	18.9	28.3

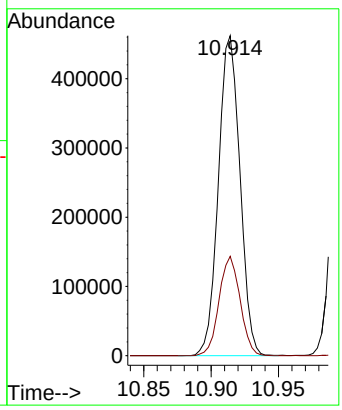




#71
2-Chlorotoluene
Concen: 8.624 ppbv
RT: 10.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 51413

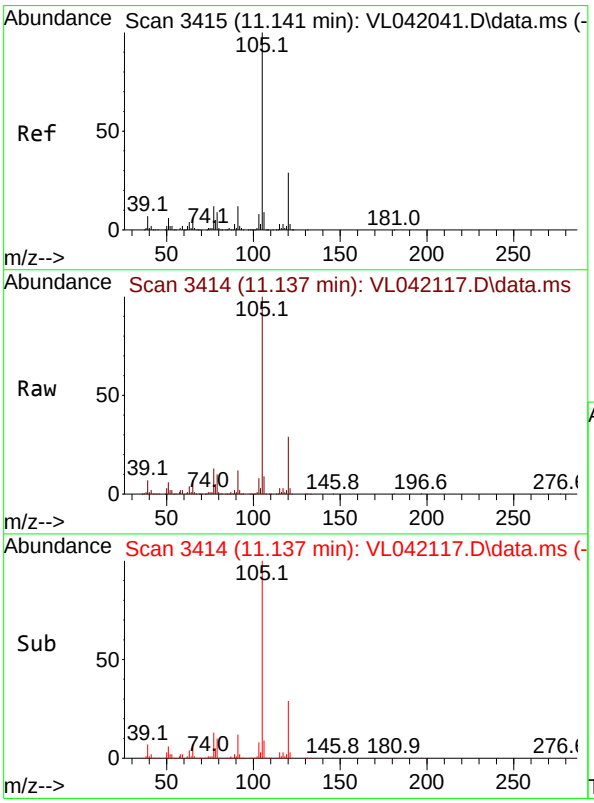
Ion	Ratio	Lower	Upper
91	100		
126	30.3	11.9	47.5



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

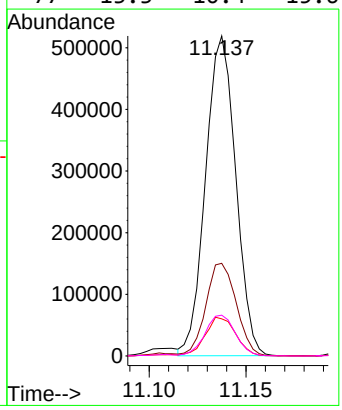
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

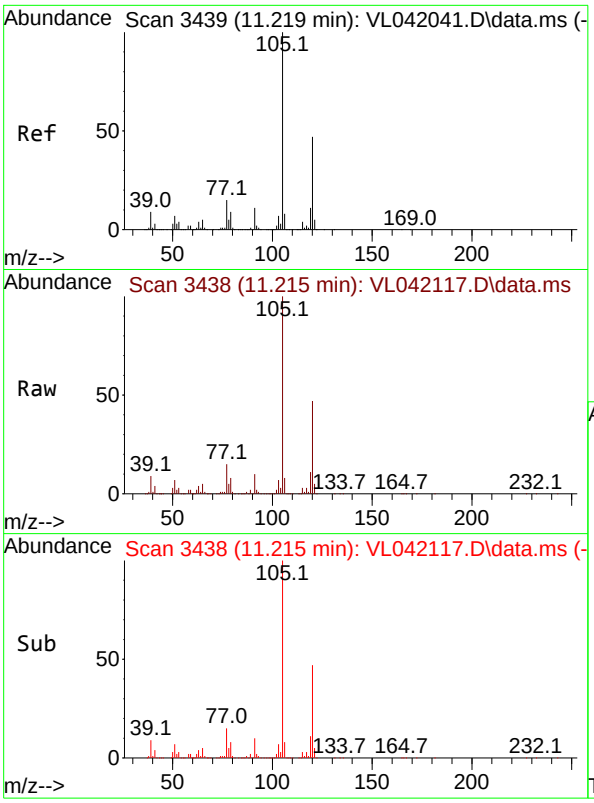


#72
4-Ethyltoluene
Concen: 8.919 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:105 Resp: 562308

Ion	Ratio	Lower	Upper
105	100		
120	30.0	24.1	36.1
91	12.7	10.2	15.4
77	13.3	10.4	15.6





#73
1,3,5-Trimethylbenzene
Concen: 8.795 ppbv
RT: 11.215 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

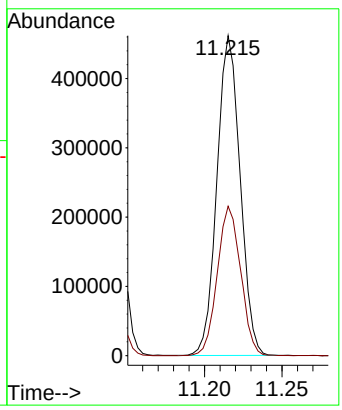
Tgt Ion:105 Resp: 48097

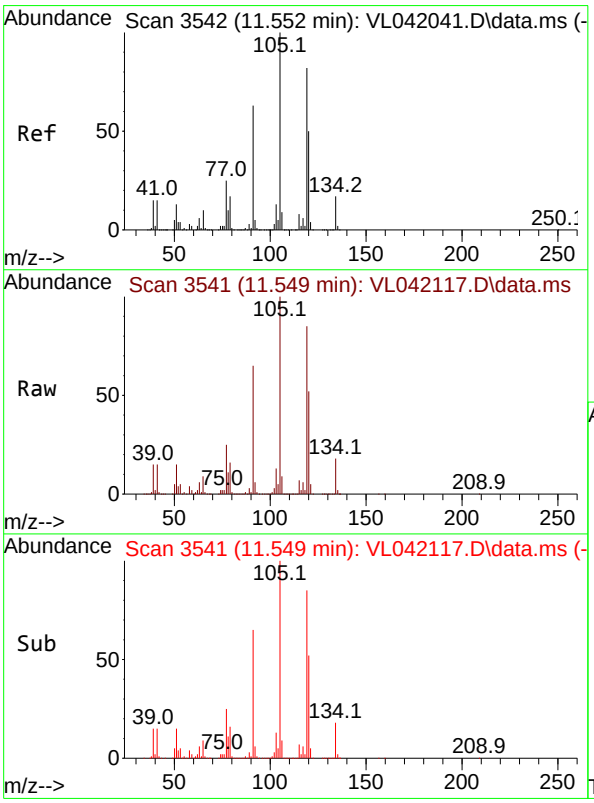
Ion	Ratio	Lower	Upper
105	100		
120	46.7	37.4	56.0

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

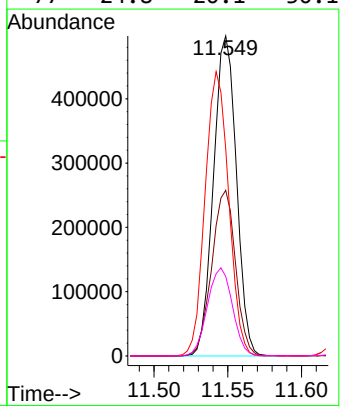


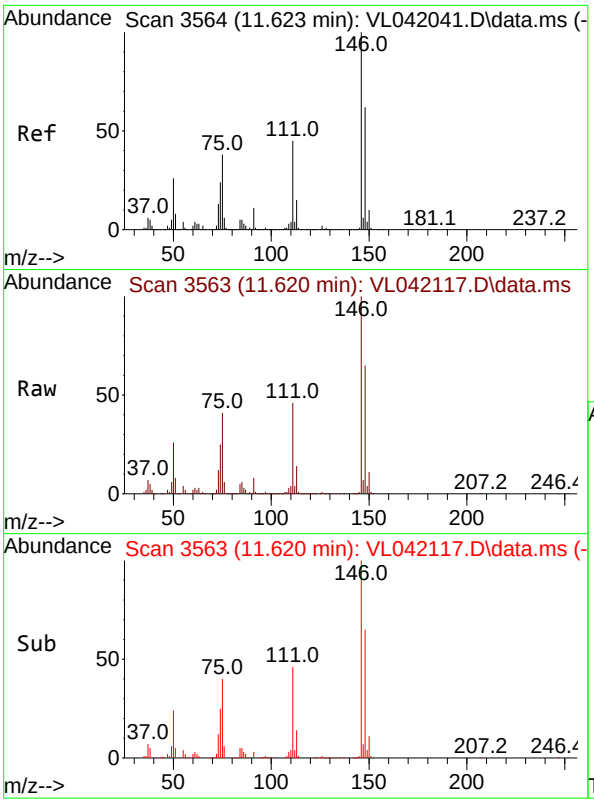


#74
1,2,4-Trimethylbenzene
Concen: 8.747 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:105 Resp: 538676

Ion	Ratio	Lower	Upper
105	100		
120	51.7	40.2	60.2
91	64.7	51.4	77.2
77	24.8	20.1	30.1

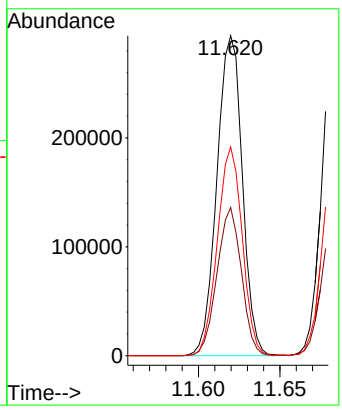




#75
1,3-Dichlorobenzene
Concen: 9.000 ppbv
RT: 11.620 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:146 Resp: 31896

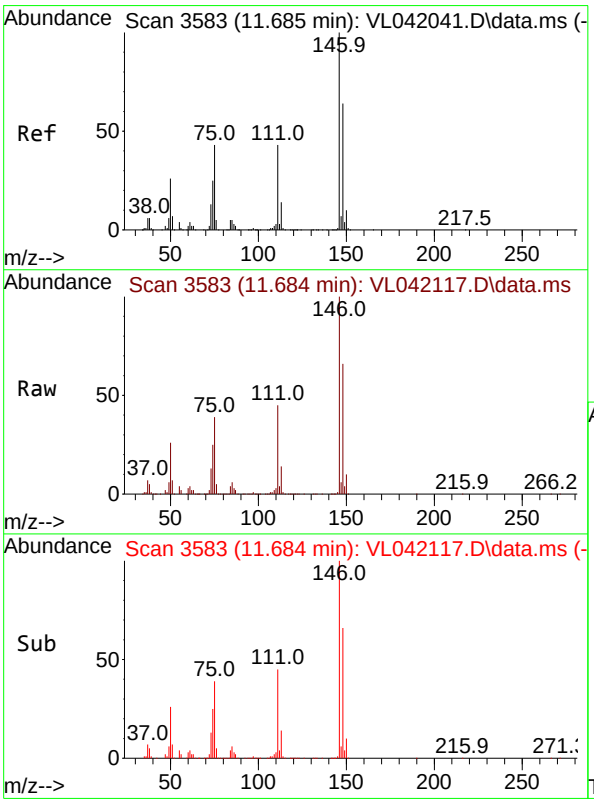
Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.4	67.2
148	63.8	32.3	96.8



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

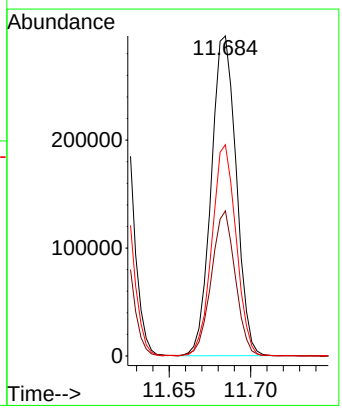
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

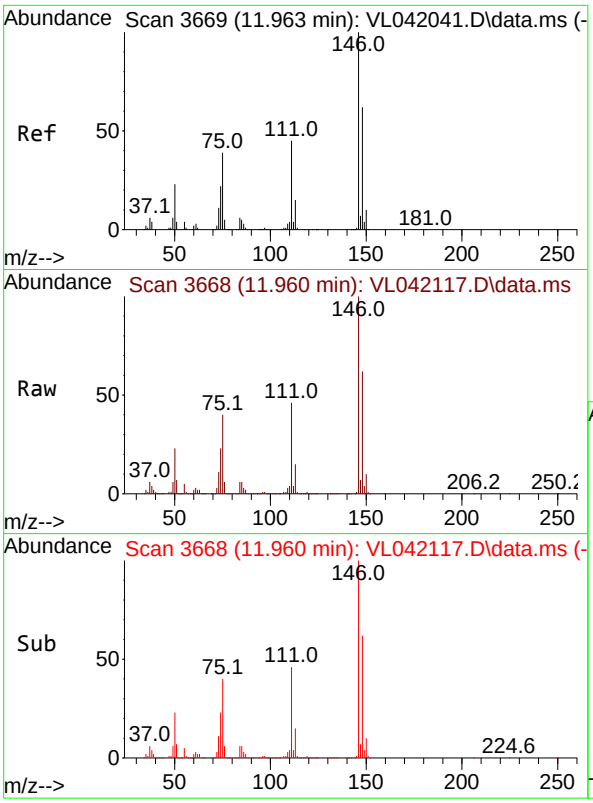


#76
1,4-Dichlorobenzene
Concen: 8.976 ppbv
RT: 11.684 min Scan# 3583
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:146 Resp: 315833

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.5	64.5
148	64.2	31.6	95.0

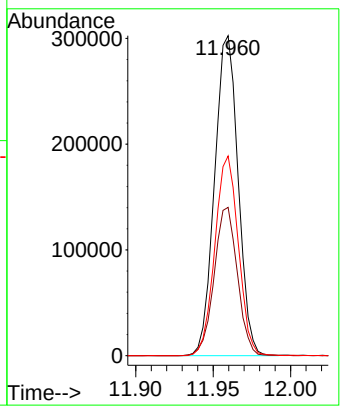




#77
1,2-Dichlorobenzene
Concen: 9.299 ppbv
RT: 11.960 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:146 Resp: 31983

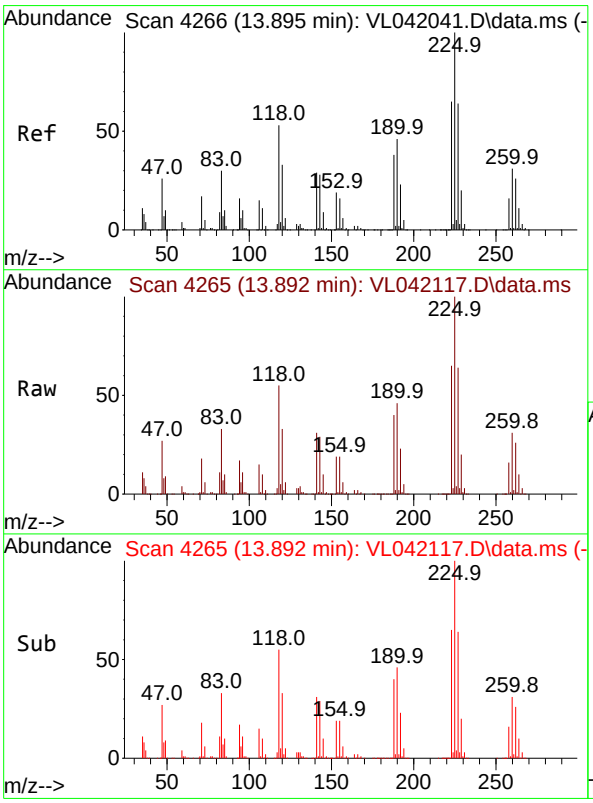
Ion	Ratio	Lower	Upper
146	100		
111	45.9	23.2	69.6
148	62.3	31.4	94.2



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

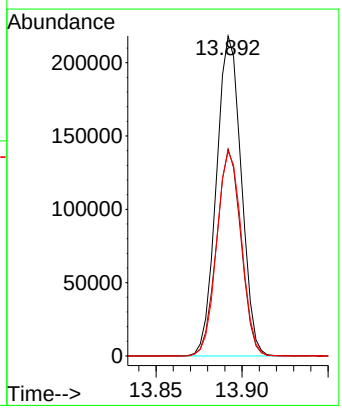
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

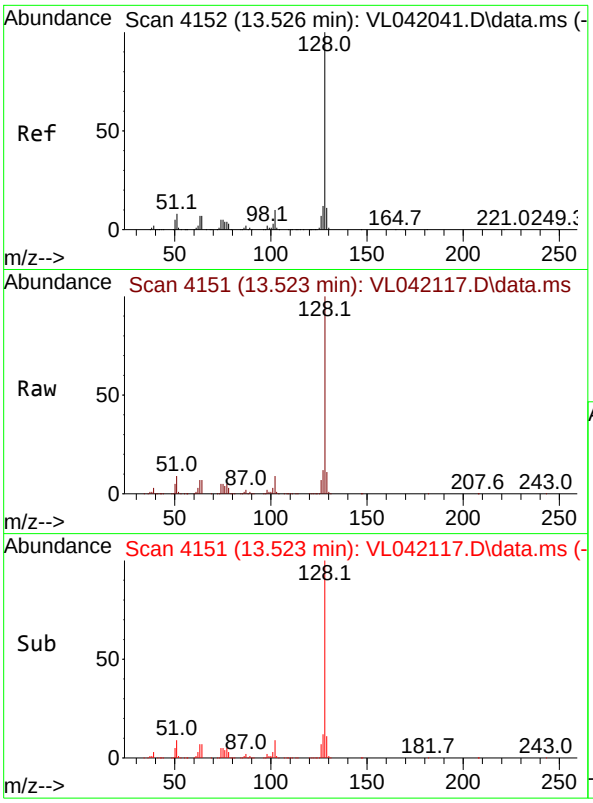


#78
Hexachloro-1,3-Butadiene
Concen: 8.187 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:225 Resp: 219090

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.2	75.2
227	63.8	50.8	76.2

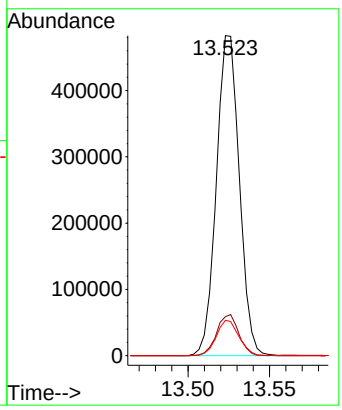




#79
Naphthalene
Concen: 11.191 ppbv
RT: 13.523 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:128 Resp: 47255

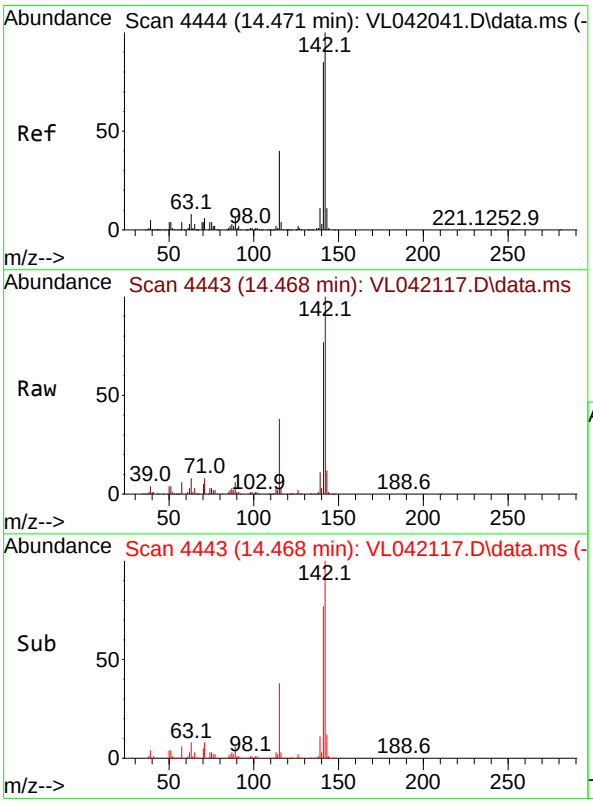
Ion	Ratio	Lower	Upper
128	100		
127	12.2	9.8	14.6
129	11.0	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

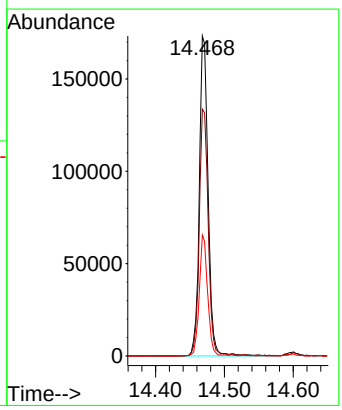
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

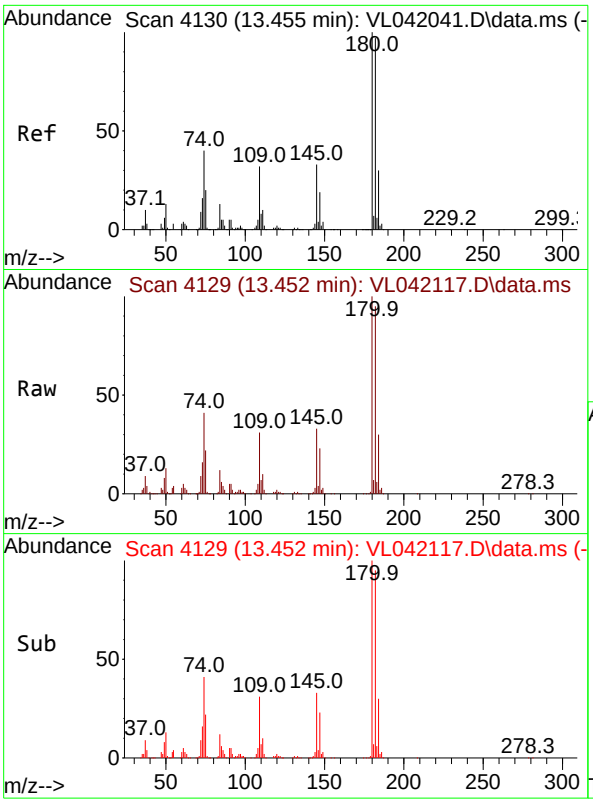


#80
Naphthalene,2-methyl-
Concen: 13.304 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:142 Resp: 153727

Ion	Ratio	Lower	Upper
142	100		
141	79.2	65.8	98.6
115	36.3	29.5	44.3

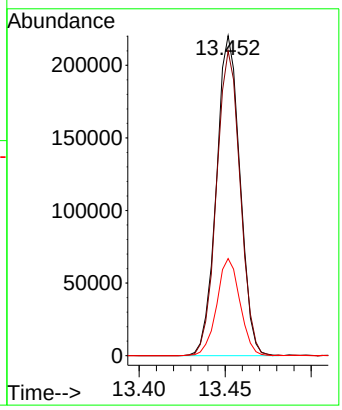




#81
1,2,4-Trichlorobenzene
Concen: 8.949 ppbv
RT: 13.452 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:180 Resp: 21058

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.1	112.7
184	29.9	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

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

Manual Integration Report

Sequence:	vl022525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042041.D	m/p-Xylene	MMDadoda	3/6/2025 1:12:13 AM	SAM	3/6/2025 1:24:10 AM	Peak Integrated by Software
VSTDICC002	VL042042.D	m/p-Xylene	SAM	2/26/2025 7:41:55 AM	MMDadoda	2/26/2025 1:45:07 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	1,4-Dioxane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	Benzyl Chloride	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	Ethanol	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	Heptane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	m/p-Xylene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl022525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042044.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,2-Dichloropropane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,4-Dioxane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	2-Hexanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	Dibromochloromethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	m/p-Xylene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Carbon Tetrachloride	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl022525	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042045.D	Tetrachloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Trichloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,1-Trichloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Carbon Tetrachloride	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Tetrachloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Trichloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC015	VL042047.D	m/p-Xylene	SAM	2/26/2025 7:42:16 AM	MMDadoda	2/26/2025 1:45:16 PM	Peak Integrated by Software
VSTDICV010	VL042048.D	m/p-Xylene	SAM	2/26/2025 7:42:09 AM	MMDadoda	2/26/2025 1:45:17 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl031025	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042115.D	1,1,2-Trichloroethane	SAM	3/11/2025 9:46:49 AM	MMDadoda	3/11/2025 5:06:19 PM	Peak Integrated by Software
VSTDCCC010	VL042115.D	m/p-Xylene	SAM	3/11/2025 9:46:49 AM	MMDadoda	3/11/2025 5:06:19 PM	Peak Integrated by Software
VL0310ABS01	VL042117.D	m/p-Xylene	SAM	3/11/2025 9:46:58 AM	MMDadoda	3/11/2025 5:06:24 PM	Peak Integrated by Software
Q1532-01	VL042121.D	Benzene	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software
Q1532-01	VL042121.D	Carbon Tetrachloride	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software
Q1532-01	VL042121.D	Chlorodifluoromethane	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software
Q1532-01	VL042121.D	m/p-Xylene	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software
Q1532-01	VL042121.D	Propene	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software
Q1532-01	VL042121.D	Tetrachloroethene	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software
Q1532-01	VL042121.D	Toluene	SAM	3/11/2025 9:47:04 AM	MMDadoda	3/11/2025 5:06:26 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Carbon Tetrachloride	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Chlorodifluoromethane	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	m/p-Xylene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl031025	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1532-01DUP	VL042122.D	Propene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Tetrachloroethene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Toluene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-02	VL042123.D	Carbon Tetrachloride	SAM	3/11/2025 9:50:52 AM	MMDadoda	3/11/2025 5:06:28 PM	Peak Integrated by Software
Q1532-02	VL042123.D	Chlorodifluoromethane	SAM	3/11/2025 9:50:52 AM	MMDadoda	3/11/2025 5:06:28 PM	Peak Integrated by Software
Q1532-02	VL042123.D	tert-Butyl alcohol	SAM	3/11/2025 9:50:52 AM	MMDadoda	3/11/2025 5:06:28 PM	Peak Integrated by Software
Q1532-02	VL042123.D	Tetrachloroethene	SAM	3/11/2025 9:50:52 AM	MMDadoda	3/11/2025 5:06:28 PM	Peak Integrated by Software
Q1532-02	VL042123.D	Toluene	SAM	3/11/2025 9:50:52 AM	MMDadoda	3/11/2025 5:06:28 PM	Peak Integrated by Software
Q1532-03	VL042125.D	Carbon Tetrachloride	SAM	3/11/2025 9:47:10 AM	MMDadoda	3/11/2025 5:06:33 PM	Peak Integrated by Software
Q1532-03	VL042125.D	Chlorodifluoromethane	SAM	3/11/2025 9:47:10 AM	MMDadoda	3/11/2025 5:06:33 PM	Peak Integrated by Software
Q1532-03	VL042125.D	Propene	SAM	3/11/2025 9:47:10 AM	MMDadoda	3/11/2025 5:06:33 PM	Peak Integrated by Software
Q1532-03	VL042125.D	tert-Butyl alcohol	SAM	3/11/2025 9:47:10 AM	MMDadoda	3/11/2025 5:06:33 PM	Peak Integrated by Software
Q1532-03	VL042125.D	Tetrachloroethene	SAM	3/11/2025 9:47:10 AM	MMDadoda	3/11/2025 5:06:33 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vl031025	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1532-04	VL042127.D	Carbon Tetrachloride	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 PM	Peak Integrated by Software
Q1532-04	VL042127.D	Chlorodifluoromethane	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 PM	Peak Integrated by Software
Q1532-04	VL042127.D	Hexane	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 PM	Peak Integrated by Software
Q1532-04	VL042127.D	m/p-Xylene	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 PM	Peak Integrated by Software
Q1532-04	VL042127.D	Propene	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 PM	Peak Integrated by Software
Q1532-04	VL042127.D	Tetrachloroethene	SAM	3/11/2025 9:51:05 AM	MMDadoda	3/11/2025 5:06:35 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 # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM				
Supervise By	Mahesh Dadoda	Supervise On	2/26/2025 1:45:21 PM				
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2576
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2576
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042040.D	25 Feb 2025 07:56	SY/MD	Ok
2	VSTDICCC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDICC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDICC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDICC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDICC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDICC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDICC015	VL042047.D	25 Feb 2025 12:07	SY/MD	Ok,M
9	VSTDICV010	VL042048.D	25 Feb 2025 13:15	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM				
Supervise By	Mahesh Dadoda	Supervise On	3/11/2025 5:07:27 PM				
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M		HP Processing Method	VL022525AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2588
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2588
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042114.D	10 Mar 2025 08:22	SY/MD	Ok
2	VSTDCCC010	VL042115.D	10 Mar 2025 09:08	SY/MD	Ok,M
3	VL0310ABL01	VL042116.D	10 Mar 2025 09:54	SY/MD	Ok
4	VL0310ABS01	VL042117.D	10 Mar 2025 10:52	SY/MD	Ok,M
5	QC030525 CAN 10742	VL042118.D	10 Mar 2025 11:23	SY/MD	Ok
6	QC030625 CAN 10418	VL042119.D	10 Mar 2025 11:54	SY/MD	Ok
7	QC030625 CAN 10676	VL042120.D	10 Mar 2025 12:25	SY/MD	Ok
8	Q1532-01	VL042121.D	10 Mar 2025 12:59	SY/MD	Ok,M
9	Q1532-01DUP	VL042122.D	10 Mar 2025 13:32	SY/MD	Ok,M
10	Q1532-02	VL042123.D	10 Mar 2025 14:06	SY/MD	Ok,M
11	Q1532-02DL	VL042124.D	10 Mar 2025 14:37	SY/MD	Not Ok
12	Q1532-03	VL042125.D	10 Mar 2025 15:10	SY/MD	Ok,M
13	Q1532-03DL	VL042126.D	10 Mar 2025 15:42	SY/MD	Not Ok
14	Q1532-04	VL042127.D	10 Mar 2025 16:15	SY/MD	Ok,M
15	Q1532-04DL	VL042128.D	10 Mar 2025 16:47	SY/MD	Not Ok
16	Q1506-02	VL042129.D	10 Mar 2025 17:20	SY/MD	Ok,M
17	Q1506-01	VL042130.D	10 Mar 2025 17:52	SY/MD	Ok,M
18	Q1506-01DL	VL042131.D	10 Mar 2025 18:23	SY/MD	Not Ok
19	Q1533-02	VL042132.D	10 Mar 2025 18:57	SY/MD	Ok,M
20	Q1533-04	VL042133.D	10 Mar 2025 19:30	SY/MD	Ok,M
21	Q1533-05	VL042134.D	10 Mar 2025 20:03	SY/MD	Ok,M

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM				
Supervise By	Mahesh Dadoda	Supervise On	3/11/2025 5:07:27 PM				
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2588
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2588
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1533-01	VL042135.D	10 Mar 2025 20:35	SY/MD	Ok,M
23	Q1533-01DL	VL042136.D	10 Mar 2025 21:07	SY/MD	Not Ok
24	Q1533-03	VL042137.D	10 Mar 2025 21:38	SY/MD	Ok,M
25	Q1533-03DL	VL042138.D	10 Mar 2025 22:10	SY/MD	Not Ok
26	VIBLK	VL042139.D	10 Mar 2025 22:42	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 # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/26/2025 1:45:21 PM		
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2576
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2576
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042040.D	25 Feb 2025 07:56		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042041.D	25 Feb 2025 08:56		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042042.D	25 Feb 2025 09:29		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042043.D	25 Feb 2025 10:00		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042044.D	25 Feb 2025 10:31		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042045.D	25 Feb 2025 11:03		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042046.D	25 Feb 2025 11:34		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042047.D	25 Feb 2025 12:07		SY/MD	Ok,M
9	VSTDICV010	ICVVL022525	VL042048.D	25 Feb 2025 13:15		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM		
Supervise By	Mahesh Dadoda	Supervise On	3/11/2025 5:07:27 PM		
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2588
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2588
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042114.D	10 Mar 2025 08:22		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042115.D	10 Mar 2025 09:08		SY/MD	Ok,M
3	VL0310ABL01	VL0310ABL01	VL042116.D	10 Mar 2025 09:54		SY/MD	Ok
4	VL0310ABS01	VL0310ABS01	VL042117.D	10 Mar 2025 10:52		SY/MD	Ok,M
5	QC030525 CAN 10742	QC030525 CAN 10742	VL042118.D	10 Mar 2025 11:23		SY/MD	Ok
6	QC030625 CAN 10418	QC030625 CAN 10418	VL042119.D	10 Mar 2025 11:54		SY/MD	Ok
7	QC030625 CAN 10676	QC030625 CAN 10676	VL042120.D	10 Mar 2025 12:25		SY/MD	Ok
8	Q1532-01	1	VL042121.D	10 Mar 2025 12:59		SY/MD	Ok,M
9	Q1532-01DUP	1DUP	VL042122.D	10 Mar 2025 13:32		SY/MD	Ok,M
10	Q1532-02	2	VL042123.D	10 Mar 2025 14:06		SY/MD	Ok,M
11	Q1532-02DL	2DL	VL042124.D	10 Mar 2025 14:37	Not Required	SY/MD	Not Ok
12	Q1532-03	3	VL042125.D	10 Mar 2025 15:10		SY/MD	Ok,M
13	Q1532-03DL	3DL	VL042126.D	10 Mar 2025 15:42	Not Required	SY/MD	Not Ok
14	Q1532-04	4	VL042127.D	10 Mar 2025 16:15		SY/MD	Ok,M
15	Q1532-04DL	4DL	VL042128.D	10 Mar 2025 16:47	Not Required	SY/MD	Not Ok
16	Q1506-02	IA1	VL042129.D	10 Mar 2025 17:20		SY/MD	Ok,M
17	Q1506-01	SV1	VL042130.D	10 Mar 2025 17:52		SY/MD	Ok,M
18	Q1506-01DL	SV1DL	VL042131.D	10 Mar 2025 18:23	Not Required	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 # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM		
Supervise By	Mahesh Dadoda	Supervise On	3/11/2025 5:07:27 PM		
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2588
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2588
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1533-02	IA1	VL042132.D	10 Mar 2025 18:57		SY/MD	Ok,M
20	Q1533-04	IA2	VL042133.D	10 Mar 2025 19:30		SY/MD	Ok,M
21	Q1533-05	OA1	VL042134.D	10 Mar 2025 20:03		SY/MD	Ok,M
22	Q1533-01	SV1	VL042135.D	10 Mar 2025 20:35		SY/MD	Ok,M
23	Q1533-01DL	SV1DL	VL042136.D	10 Mar 2025 21:07	Not Required	SY/MD	Not Ok
24	Q1533-03	SV2	VL042137.D	10 Mar 2025 21:38		SY/MD	Ok,M
25	Q1533-03DL	SV2DL	VL042138.D	10 Mar 2025 22:10	Not Required	SY/MD	Not Ok
26	VIBLK	VIBLK	VL042139.D	10 Mar 2025 22:42		SY/MD	Ok

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 : Q1532

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: vl031025,

Standard ID :
AP2582,AP2584,AP2585,AP2586,AP2588,

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
2396	TO-15 15 PPBV CAL MIX	AP2582	02/24/2025	03/31/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/15/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1136 = Final Quantity: 30.000 psi

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2397	TO-15 -2 PPBV CAL.MIX	AP2584	02/24/2025	03/31/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/15/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2582 = 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
2668	0.5 PPBV CAL.MIX	AP2585	02/24/2025	03/31/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/15/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2582 = 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	AP2586	02/24/2025	03/31/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/15/2025

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

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	AP2588	02/24/2025	03/31/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/15/2025

FROM 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC275465	07/16/2025	07/22/2024 / SAM	07/22/2024 / SAM	A1135

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003A	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1136

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003B	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1137

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorbenzene	1 ppm	0.979 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES:

Blend Tolerance: +/- 10 %

Analytical Tolerance: +/- 5 %

Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis

Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.

Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

Signature:

QA Signature:

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: BC917782
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003A

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	517 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	534 ppb +/- 50 ppb	
Acrolein	500 ppb	545 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	539 ppb +/- 50 ppb	
Allyl chloride	500 ppb	509 ppb +/- 50 ppb	
Benzene	500 ppb	483 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	489 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	509 ppb +/- 50 ppb	
Bromoform	500 ppb	495 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	504 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	532 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	485 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	506 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	491 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	488 ppb +/- 50 ppb	
Chloroform	500 ppb	492 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	532 ppb +/- 50 ppb	
Cyclohexane	500 ppb	482 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	491 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	510 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	489 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	490 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	508 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	492 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	497 ppb +/- 50 ppb	
1,1-Dichlororethylene	500 ppb	493 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	490 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	516 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	505 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	484 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	486 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	555 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	497 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	506 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	485 ppb +/- 50 ppb	
n-Heptane	500 ppb	487 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	489 ppb +/- 50 ppb	
2-Hexanone	500 ppb	490 ppb +/- 50 ppb	
n-Hexane	500 ppb	485 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	511 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	527 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	534 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	505 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	509 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	496 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	493 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	532 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	483 ppb +/- 50 ppb	
Methylene chloride	500 ppb	498 ppb +/- 50 ppb	
Naphthalene	500 ppb	542 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	529 ppb +/- 50 ppb	
Propylene	500 ppb	508 ppb +/- 50 ppb	
Styrene	500 ppb	485 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	534 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	487 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	535 ppb +/- 50 ppb	
Toluene	500 ppb	491 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	494 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	488 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	508 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	495 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	494 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	498 ppb +/- 50 ppb	
2,2,4- Trimethylpentane	500 ppb	489 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	499 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	505 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	507 ppb +/- 50 ppb	
m-Xylene	500 ppb	492 ppb +/- 50 ppb	
o-Xylene	500 ppb	480 ppb +/- 50 ppb	
p-Xylene	500 ppb	486 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

NOTES:	**Blend Tolerance:**	+/- 20 %
	Analytical Tolerance:	+/- 10 %
	Traceability:	NIST by weight set. NIST Traceability No MT001810. Internal Standards by analysis
	Reactive Mixtures:	Analyzed twice with required agreement between analyses of 2%. Required wait time between analyses of >7 days.
	Caution:	Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: BC169552
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	502 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	530 ppb +/- 50 ppb	
Acrolein	500 ppb	540 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	535 ppb +/- 50 ppb	
Allyl chloride	500 ppb	494 ppb +/- 50 ppb	
Benzene	500 ppb	470 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	476 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	495 ppb +/- 50 ppb	
Bromoform	500 ppb	481 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	490 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	527 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	471 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	492 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	478 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	474 ppb +/- 50 ppb	
Chloroform	500 ppb	478 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	527 ppb +/- 50 ppb	
Cyclohexane	500 ppb	469 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	477 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	495 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	475 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	476 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	494 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	478 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1-Dichlororethylene	500 ppb	479 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	476 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	501 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	491 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	470 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	472 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	550 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	483 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	492 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	472 ppb +/- 50 ppb	
n-Heptane	500 ppb	473 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	475 ppb +/- 50 ppb	
2-Hexanone	500 ppb	477 ppb +/- 50 ppb	
n-Hexane	500 ppb	471 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	497 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	522 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	530 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	491 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	494 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	482 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	479 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	527 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	470 ppb +/- 50 ppb	
Methylene chloride	500 ppb	484 ppb +/- 50 ppb	
Naphthalene	500 ppb	537 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	525 ppb +/- 50 ppb	
Propylene	500 ppb	494 ppb +/- 50 ppb	
Styrene	500 ppb	472 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	530 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	470 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	473 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	520 ppb +/- 50 ppb	
Toluene	500 ppb	477 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	480 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	480 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	481 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	474 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	481 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	480 ppb +/- 50 ppb	
1.3,5-Trimethylbenzene	500 ppb	484 ppb +/- 50 ppb	
2,2,4- Trimethylpentane	500 ppb	475 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	485 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	491 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	493 ppb +/- 50 ppb	
m-Xylene	500 ppb	479 ppb +/- 50 ppb	
o-Xylene	500 ppb	466 ppb +/- 50 ppb	
p-Xylene	500 ppb	473 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	497 ppb +/- 50 ppb	
R-22	500 ppb	589 ppb +/- 50 ppb	
Nitrogen	balance	balance	

NOTES:	**Blend Tolerance:**	+/- 20 %
	Analytical Tolerance:	+/- 10 %
	Traceability:	NIST by weight set. NIST Traceability No MT001810. Internal Standards by analysis
	Reactive Mixtures:	Analyzed twice with required agreement between analyses of 2%. Required wait time between analyses of >7 days.
	Caution:	Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

Signature:

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

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

Process Report

Order ID : Q1532

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/10/2025	B2502012	Q1532-02	-2.7	10590	6 L	10784		C2412002	**VL041796.D** Seq :vl121824 TUNE : VL041787.D ICAL : VL041757.D CCAL : VL041788.D MB : VL041790.D
03/10/2025	B2502012	Q1532-04	-4.7	10295	6 L	10714		C2412001	**VL041782.D** Seq :vl121724 TUNE : VL041770.D ICAL : VL041757.D CCAL : VL041771.D MB : VL041774.D
03/10/2025	B2502012	Q1532-03	-4.3	10279	6 L	10704		C2412001	**VL041782.D** Seq :vl121724 TUNE : VL041770.D ICAL : VL041757.D CCAL : VL041771.D MB : VL041774.D
03/10/2025	B2503003	Q1532-01	-4.7	10303	6 L	10517		C2501003	**VL041954.D** Seq :VL012725 TUNE : VL041943.D ICAL : VL041894.D CCAL : VL041944.D MB : VL041946.D

Canister Cleaning

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

Canister Batch : C2501003

Type of Canister : 6 L

Cleaning Date : 01/21/2025

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
10410	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1533-03	10268	VL041954.D
10303	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1532-01	10268	VL041954.D
10266	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1533-04	10268	VL041954.D
10268	-30	01/22/2025	01/27/2025	-30	01/23/2025		10268	VL041954.D
10197	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1483-06	10268	VL041954.D
10258	-30	01/22/2025	01/27/2025	-30	01/23/2025		10268	VL041954.D
10024	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1483-05	10268	VL041954.D
10153	-30	01/22/2025	01/27/2025	-30	01/23/2025	Q1533-05	10268	VL041954.D

Canister Cleaning

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

Canister Batch : C2412002

Type of Canister : 6 L

Cleaning Date : 12/17/2024

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
10267	-30	12/18/2024	12/18/2024	-30	12/19/2024	Q1419-01	10158	VL041796.D
10158	-30	12/18/2024	12/18/2024	-30	12/19/2024	Q1430-01	10158	VL041796.D
10334	-30	12/18/2024	12/18/2024	-30	12/19/2024	Q1430-02	10158	VL041796.D
10294	-30	12/18/2024	12/18/2024	-30	12/19/2024	Q1386-01	10158	VL041796.D
10280	-30	12/18/2024	12/18/2024	-30	12/19/2024	Q1430-06	10158	VL041796.D
10492	-30	12/18/2024	12/18/2024	-30	12/19/2024	Q1419-02	10158	VL041796.D
10590	-30	12/18/2024	12/18/2024	-30	12/19/2024	Q1532-02	10158	VL041796.D

Canister Cleaning

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

Canister Batch : C2412001

Type of Canister : 6 L

Cleaning Date : 12/03/2024

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
10279	-30	12/04/2024	12/17/2024	-30	12/05/2024	Q1532-03	10279	VL041782.D
10283	-30	12/04/2024	12/17/2024	-30	12/05/2024	Q1302-02	10279	VL041782.D
10295	-30	12/04/2024	12/17/2024	-30	12/05/2024	Q1532-04	10279	VL041782.D
10315	-30	12/04/2024	12/17/2024	-30	12/05/2024	Q1342-01	10279	VL041782.D

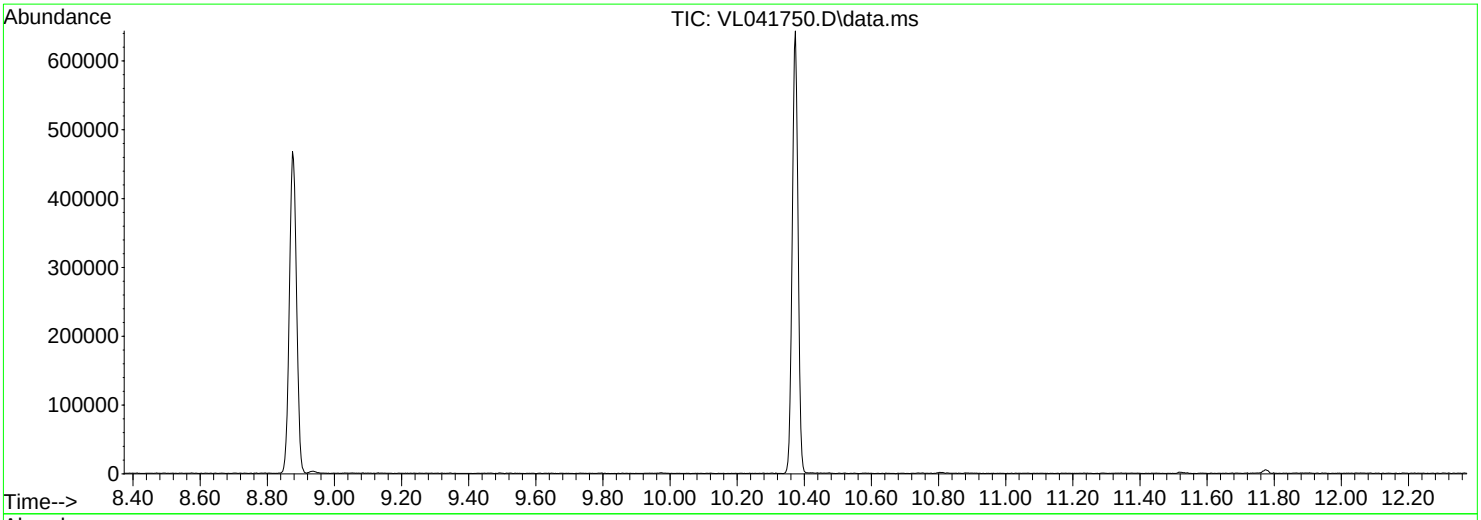
BFB

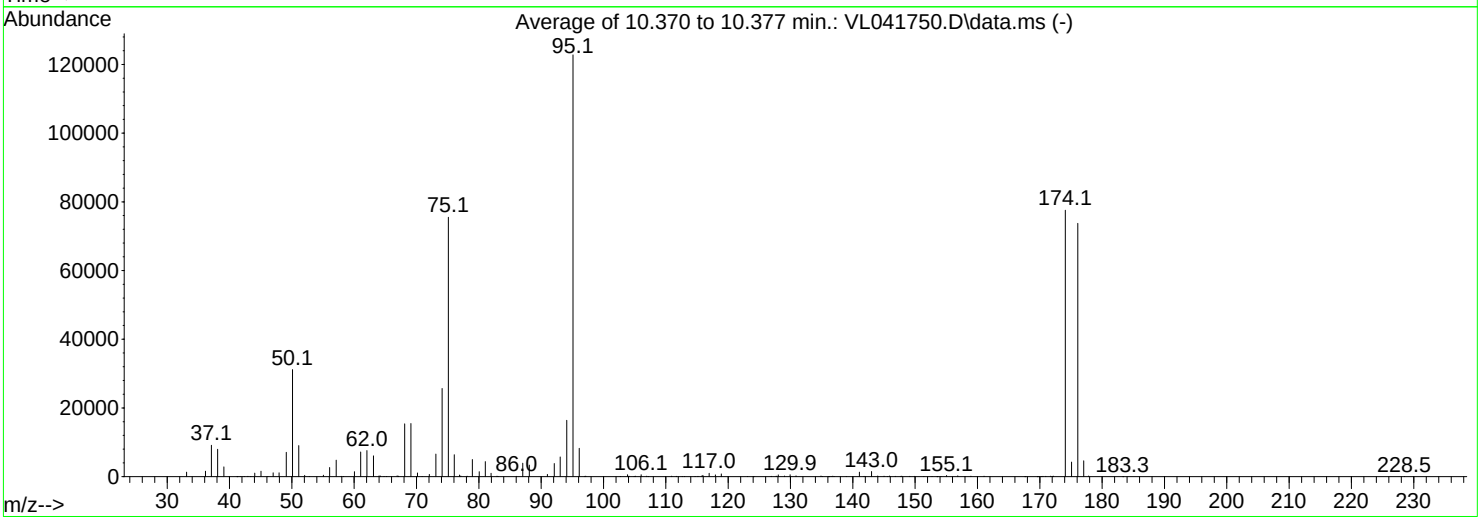
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041750.D
Acq On : 16 Dec 2024 12:02
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Thu Dec 19 07:32:09 2024





AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.4	31157	PASS
75	95	30	66	61.5	75504	PASS
95	95	100	100	100.0	122797	PASS
96	95	5	9	6.7	8239	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.2	77565	PASS
175	174	4	9	5.5	4234	PASS
176	174	93	101	95.0	73717	PASS
177	176	5	9	6.3	4630	PASS

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL121624AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Thu Dec 19 07:32:09 2024
Response Via : Initial Calibration

Calibration Files
0.03=VL041757.D 0.1 =VL041756.D 0.5 =VL041755.D 1 =VL041754.D 2 =VL041753.D 10 =VL041752.D 15 =VL041758.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.886	1.927	1.840	1.682	1.562	1.779	8.61
3)		Chlorodifluoro...			1.679	1.697	1.653	1.566	1.559	1.631	3.94
4)		Chloromethane			0.737	0.729	0.736	0.630	0.650	0.696	7.48
5)	T	Vinyl Chloride	0.909	0.673	0.682	0.695	0.689	0.625	0.637	0.701	13.60
6)	T	Bromomethane			0.343	0.363	0.343	0.295	0.310	0.331	8.32
7)		Chloroethane			0.282	0.267	0.297	0.254	0.262	0.272	6.26
8)	T	Dichlorotetraf...			1.712	1.659	1.616	1.461	1.516	1.593	6.49
9)	T	Propene			0.788	0.734	0.750	0.633	0.629	0.707	10.16
10)	T	Heptane			1.950	1.821	1.875	1.705	1.726	1.816	5.64
11)	T	Trichlorofluor...			1.981	1.915	1.943	1.791	1.820	1.890	4.31
12)	T	1,1,2-Trichlor...			1.491	1.504	1.466	1.341	1.386	1.437	4.92
13)		Ethanol			0.081	0.080	0.059	0.036	0.037	0.059	37.17
14)	T	Bromoethene			0.509	0.477	0.484	0.474	0.482	0.485	2.84
15)	T	Acetone			2.474	2.284	2.047	1.461	1.462	1.946	24.00
16)	T	1,3-Butadiene			0.891	0.779	0.777	0.685	0.699	0.766	10.74
17)		tert-Butyl alc...			1.999	2.024	1.975	1.833	1.819	1.930	5.00
18)	T	1,1-Dichloroet...			0.608	0.628	0.622	0.565	0.591	0.603	4.20
19)	T	Isopropyl Alcohol			1.709	1.320	1.107	0.860	0.841	1.167	30.91
20)	T	Methylene Chlo...			0.653	0.587	0.562	0.477	0.495	0.555	12.88
21)	T	Allyl Chloride			1.008	1.126	1.092	1.012	1.038	1.055	4.93
22)	T	trans-1,2-Dich...			0.749	0.698	0.697	0.640	0.665	0.690	5.96
23)	T	Vinyl Acetate			0.781	0.811	1.309	0.790	0.826	0.903	25.15
24)	T	1,1-Dichloroet...			1.458	1.459	1.414	1.311	1.340	1.396	4.89
25)	T	Ethyl Acetate			3.618	3.813	3.745	3.430	3.492	3.620	4.48
26)	T	Hexane			1.423	1.403	1.423	1.303	1.316	1.374	4.32
27)	T	Carbon Disulfide			1.024	1.237	1.202	1.346	1.380	1.238	11.34
28)	T	Methyl tert-Bu...			1.033	1.295	1.115	1.098	1.030	1.114	9.69
29)	T	Chloroform			2.155	2.182	2.138	1.969	2.022	2.093	4.41
30)	T	Cyclohexane			1.217	1.187	1.215	1.096	1.130	1.169	4.62
31)	T	cis-1,2-Dichlo...			1.430	1.519	1.460	1.331	1.358	1.419	5.37
32)	T	1,1,1-Trichlor...	2.218	2.113	2.158	2.186	2.101	2.028	2.091	2.128	3.03
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.869	0.820	0.860	0.736	0.737	0.805	8.05
35)	T	Carbon Tetrach...	0.671	0.657	0.634	0.716	0.758	0.756	0.777	0.710	7.94
36)	T	Benzene			1.079	1.080	1.059	0.975	0.979	1.034	5.16
37)	T	1,2-Dichloroet...			0.690	0.642	0.650	0.608	0.628	0.644	4.71
38)	T	Trichloroethene	0.551	0.469	0.408	0.437	0.428	0.388	0.393	0.439	12.92
39)	T	1,2-Dichloropr...			0.382	0.395	0.388	0.353	0.353	0.374	5.36

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL121624AIR.M

40)	T	1,4-Dioxane			0.212	0.181	0.187	0.167	0.167	0.183	10.12
41)	T	Tetrahydrofuran			0.455	0.488	0.455	0.427	0.428	0.451	5.52
42)	T	Bromodichlorom...			0.664	0.735	0.730	0.777	0.796	0.740	6.88
43)		Methyl Methacr...			0.372	0.394	0.406	0.395	0.404	0.394	3.38
44)	T	2,2,4-Trimethy...			1.826	1.809	1.842	1.674	1.681	1.767	4.64
45)	T	t-1,3-Dichloro...			0.382	0.393	0.407	0.423	0.434	0.408	5.25
46)	T	cis-1,3-Dichlo...			0.500	0.493	0.522	0.533	0.540	0.518	3.96
47)	T	1,1,2-Trichlor...			0.408	0.402	0.406	0.368	0.371	0.391	5.06
48)	T	Dibromochlorom...			0.433	0.493	0.540	0.593	0.609	0.534	13.58
49)	T	Bromoform			0.328	0.395	0.443	0.498	0.519	0.437	17.80
50)	T	4-Methyl-2-Pen...			1.062	1.130	1.149	1.060	1.076	1.095	3.75
51)	T	2-Hexanone			0.831	0.923	0.953	0.857	0.876	0.888	5.59
52)	T	Tetrachloroethene	0.555	0.333	0.346	0.395	0.372	0.343	0.351	0.385	20.18
53)	T	Toluene			1.183	1.207	1.215	1.123	1.136	1.173	3.54
54)	T	1,2-Dibromoethane		0.565	0.540	0.545	0.542	0.512	0.527	0.538	3.32
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.487	0.533	0.568	0.532	0.532	0.530	5.43
57)	T	Chlorobenzene			1.053	1.078	1.088	0.951	0.946	1.023	6.78
58)	T	Ethyl Benzene			1.694	1.834	1.931	1.774	1.769	1.800	4.90
59)	T	m/p-Xylene			1.423	1.467	1.522	1.417	1.410	1.448	3.26
60)	T	o-Xylene			1.382	1.492	1.560	1.421	1.404	1.452	5.04
61)	T	Styrene			0.544	0.598	0.636	0.674	0.687	0.628	9.27
62)		Isopropylbenzene			2.138	2.234	2.293	2.135	2.105	2.181	3.64
63)	T	1,1,2,2-Tetrac...	0.979	0.936	0.953	0.909	0.907	0.841	0.835	0.909	5.96
64)		n-propylbenzene			0.520	0.581	0.584	0.535	0.537	0.551	5.28
65)		tert-Butylbenzene			1.964	2.027	2.100	1.892	1.856	1.968	5.04
66)	T	Benzyl Chloride			0.169	0.155	0.165	0.190	0.188	0.173	8.70
67)		sec-Butylbenzene			2.682	2.774	2.926	2.638	2.595	2.723	4.84
68)	S	1-Bromo-4-Fluo...	0.827	0.829	0.834	0.819	0.844	0.848	0.833	0.833	1.18
69)		p-Isopropyltol...			2.149	2.237	2.416	2.223	2.195	2.244	4.54
70)		n-Butylbenzene			1.977	2.184	2.300	2.198	2.183	2.168	5.43
71)		2-Chlorotoluene			1.640	1.698	1.760	1.616	1.609	1.665	3.84
72)	T	4-Ethyltoluene			1.681	1.659	1.794	1.731	1.703	1.713	3.06
73)	T	1,3,5-Trimethy...			1.324	1.378	1.483	1.465	1.458	1.422	4.78
74)	T	1,2,4-Trimethy...			1.396	1.519	1.619	1.566	1.543	1.529	5.41
75)	T	1,3-Dichlorobe...			1.023	1.015	0.994	0.929	0.912	0.975	5.22
76)	T	1,4-Dichlorobe...			0.996	0.972	0.992	0.931	0.924	0.963	3.50
77)	T	1,2-Dichlorobe...			1.009	0.978	0.983	0.865	0.855	0.938	7.68
78)	T	Hexachloro-1,3...			0.786	0.756	0.773	0.586	0.575	0.695	15.13
79)	T	Naphthalene		0.754	0.928	1.046	1.154	1.258	1.251	1.065	18.57
80)	T	Naphthalene,2-...			0.094	0.093	0.137	0.651	0.673	0.329	92.27
81)	T	1,2,4-Trichlor...			0.536	0.553	0.592	0.621	0.608	0.582	6.25

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041752.D
Acq On : 16 Dec 2024 13:30
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:11:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	68599	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	183786	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	163333	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	138451	10.172	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	115385	9.453	ppbv	100
3) Chlorodifluoromethane	1.473	51	107429	9.603	ppbv	100
4) Chloromethane	1.531	50	43215	9.049	ppbv	100
5) Vinyl Chloride	1.580	62	42849	8.905	ppbv	100
6) Bromomethane	1.667	94	20252	8.919	ppbv	100
7) Chloroethane	1.703	64	17403	9.311	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	100191	9.171	ppbv	100
9) Propene	1.483	41	43440	8.959	ppbv	100
10) Heptane	4.979	43	116969	9.391	ppbv	100
11) Trichlorofluoromethane	1.875	101	122831	9.474	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	91977	9.327	ppbv	100
13) Ethanol	1.719	45	2484	6.161	ppbv	100
14) Bromoethene	1.781	108	32528	9.770	ppbv	100
15) Acetone	1.832	43	100229	7.509	ppbv	100
16) 1,3-Butadiene	1.606	39	46989	8.940	ppbv	100
17) tert-Butyl alcohol	2.036	59	125757	9.497	ppbv	100
18) 1,1-Dichloroethene	2.033	96	38775	9.379	ppbv	100
19) Isopropyl Alcohol	1.884	45	59026	7.370	ppbv	100
20) Methylene Chloride	2.059	84	32734	8.601	ppbv	100
21) Allyl Chloride	2.095	41	69406	9.588	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	43898	9.276	ppbv	100
23) Vinyl Acetate	2.457	43	54227	9.350	ppbv	100
24) 1,1-Dichloroethane	2.405	63	89912	9.386	ppbv	100
25) Ethyl Acetate	2.833	43	235305	9.432	ppbv	100
26) Hexane	2.823	57	89385	9.486	ppbv	100
27) Carbon Disulfide	2.150	76	92329	10.873	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	75330	9.854	ppbv	100
29) Chloroform	2.846	83	135099	9.408	ppbv	100
30) Cyclohexane	3.855	84	75156	9.374	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	91276	9.374	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	139102	9.733	ppbv	100
34) 2-Butanone	2.554	43	135331	9.153	ppbv	100
35) Carbon Tetrachloride	3.758	117	138952	10.650	ppbv	100
36) Benzene	3.655	78	179134	9.423	ppbv	100
37) 1,2-Dichloroethane	3.215	62	111770	9.449	ppbv	100
38) Trichloroethene	4.545	130	71297	8.907	ppbv	100
39) 1,2-Dichloropropane	4.309	63	64789	9.423	ppbv	100
40) 1,4-Dioxane	4.580	88	30658	9.128	ppbv #	100
41) Tetrahydrofuran	3.049	42	78480	9.474	ppbv	100
42) Bromodichloromethane	4.483	83	142819	10.494	ppbv	100
43) Methyl Methacrylate	4.878	69	72578	10.020	ppbv	100
44) 2,2,4-Trimethylpentane	4.639	57	307748	9.479	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	77752	10.378	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041752.D
Acq On : 16 Dec 2024 13:30
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:11:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	97992	10.303	ppbv	100
47) 1,1,2-Trichloroethane	6.577	97	67550	9.406	ppbv	100
48) Dibromochloromethane	7.383	129	108899	11.105	ppbv	100
49) Bromoform	9.481	173	91587	11.410	ppbv	100
50) 4-Methyl-2-Pentanone	5.749	43	194838	9.678	ppbv	100
51) 2-Hexanone	7.432	43	157473	9.650	ppbv	100
52) Tetrachloroethene	8.222	164	62989	8.901	ppbv	100
53) Toluene	6.930	91	206354	9.574	ppbv	100
54) 1,2-Dibromoethane	7.649	107	94016	9.501	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	86831	10.027	ppbv	100
57) Chlorobenzene	8.921	112	155349	9.295	ppbv	100
58) Ethyl Benzene	9.354	91	289734	9.853	ppbv	100
59) m/p-Xylene	9.549	91	462802m	19.568	ppbv	
60) o-Xylene	9.963	91	232101	9.789	ppbv	100
61) Styrene	9.869	104	110041	10.733	ppbv	100
62) Isopropylbenzene	10.539	105	348684	9.788	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	137363	9.255	ppbv	100
64) n-propylbenzene	10.989	120	87360	9.700	ppbv	100
65) tert-Butylbenzene	11.529	119	309036	9.615	ppbv	100
66) Benzyl Chloride	11.614	91	31039	10.954	ppbv	100
67) sec-Butylbenzene	11.769	105	430810	9.687	ppbv	100
69) p-Isopropyltoluene	11.924	119	363072	9.906	ppbv	100
70) n-Butylbenzene	12.280	91	358993	10.137	ppbv	100
71) 2-Chlorotoluene	10.902	91	264002	9.708	ppbv	100
72) 4-Ethyltoluene	11.125	105	282698	10.120	ppbv	100
73) 1,3,5-Trimethylbenzene	11.203	105	239261	10.304	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	255780	10.244	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	151752	9.532	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	152099	9.671	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	141338	9.227	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	95751	8.431	ppbv	100
79) Naphthalene	13.514	128	205511	11.812	ppbv	100
80) Naphthalene,2-methyl-	14.459	142	106311	19.755	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	101461	10.672	ppbv	100

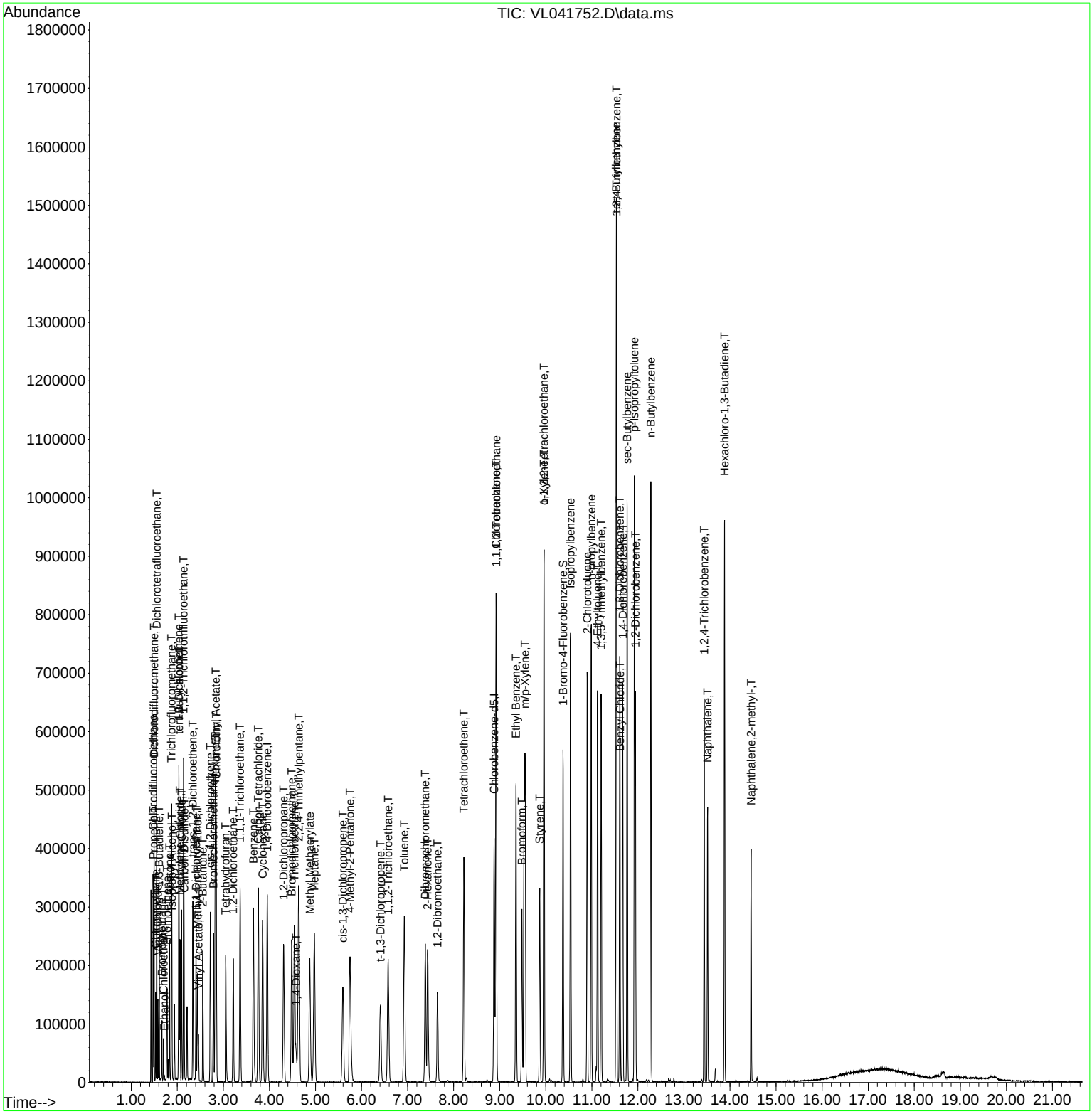
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041752.D
Acq On : 16 Dec 2024 13:30
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:11:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041753.D
Acq On : 16 Dec 2024 14:03
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:12:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	67443	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	182992	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	163971	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	138312	10.122	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	24819	2.068	ppbv		98
3) Chlorodifluoromethane	1.476	51	22299	2.027	ppbv		96
4) Chloromethane	1.531	50	9926	2.114	ppbv		99
5) Vinyl Chloride	1.580	62	9300	1.966	ppbv		99
6) Bromomethane	1.667	94	4625	2.072	ppbv		99
7) Chloroethane	1.706	64	4003	2.178	ppbv	#	85
8) Dichlorotetrafluoroethane	1.554	85	21791	2.029	ppbv		100
9) Propene	1.483	41	10115	2.122	ppbv		97
10) Heptane	4.978	43	25297	2.066	ppbv		100
11) Trichlorofluoromethane	1.878	101	26208	2.056	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.140	101	19770	2.039	ppbv		99
13) Ethanol	1.722	45	792	1.998	ppbv	#	49
14) Bromoethene	1.784	108	6527	1.994	ppbv	#	90
15) Acetone	1.835	43	27613	2.104	ppbv		99
16) 1,3-Butadiene	1.609	39	10478	2.028	ppbv		96
17) tert-Butyl alcohol	2.043	59	26646	2.047	ppbv		99
18) 1,1-Dichloroethene	2.033	96	8389	2.064	ppbv		92
19) Isopropyl Alcohol	1.887	45	14937	1.897	ppbv		93
20) Methylene Chloride	2.062	84	7586	2.027	ppbv		94
21) Allyl Chloride	2.094	41	14731	2.070	ppbv		99
22) trans-1,2-Dichloroethene	2.340	96	9407	2.022	ppbv		94
23) Vinyl Acetate	2.463	43	17652	3.096	ppbv	#	95
24) 1,1-Dichloroethane	2.408	63	19070	2.025	ppbv		99
25) Ethyl Acetate	2.836	43	50510	2.059	ppbv		99
26) Hexane	2.826	57	19200	2.073	ppbv		98
27) Carbon Disulfide	2.153	76	16214	1.942	ppbv	#	34
28) Methyl tert-Butyl Ether	2.441	73	15039	2.001	ppbv		98
29) Chloroform	2.849	83	28843	2.043	ppbv		98
30) Cyclohexane	3.858	84	16384	2.079	ppbv		99
31) cis-1,2-Dichloroethene	2.719	61	19688	2.057	ppbv		96
32) 1,1,1-Trichloroethane	3.370	97	28341	2.017	ppbv		98
34) 2-Butanone	2.557	43	31483	2.138	ppbv		99
35) Carbon Tetrachloride	3.765	117	27727	2.134	ppbv		98
36) Benzene	3.658	78	38759	2.048	ppbv		94
37) 1,2-Dichloroethane	3.221	62	23800	2.021	ppbv		98
38) Trichloroethene	4.548	130	15660	1.965	ppbv		94
39) 1,2-Dichloropropane	4.315	63	14197	2.074	ppbv		94
40) 1,4-Dioxane	4.603	88	6826m	2.041	ppbv		
41) Tetrahydrofuran	3.059	42	16665	2.021	ppbv		96
42) Bromodichloromethane	4.489	83	26716	1.972	ppbv		98
43) Methyl Methacrylate	4.884	69	14849	2.059	ppbv		100
44) 2,2,4-Trimethylpentane	4.642	57	67432	2.086	ppbv		100
45) t-1,3-Dichloropropene	6.415	75	14885	1.995	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041753.D
Acq On : 16 Dec 2024 14:03
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:12:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	19105m	2.017	ppbv		
47) 1,1,2-Trichloroethane	6.584	97	14858	2.078	ppbv		89
48) Dibromochloromethane	7.390	129	19764	2.024	ppbv		98
49) Bromoform	9.484	173	16200	2.027	ppbv		98
50) 4-Methyl-2-Pentanone	5.758	43	42045	2.098	ppbv		97
51) 2-Hexanone	7.441	43	34878	2.147	ppbv	#	98
52) Tetrachloroethene	8.225	164	13612	1.932	ppbv		93
53) Toluene	6.933	91	44470	2.072	ppbv		99
54) 1,2-Dibromoethane	7.655	107	19820	2.012	ppbv		91
56) 1,1,1,2-Tetrachloroethane	8.924	131	18613	2.141	ppbv		98
57) Chlorobenzene	8.920	112	35685	2.127	ppbv		99
58) Ethyl Benzene	9.354	91	63316	2.145	ppbv		97
59) m/p-Xylene	9.535	91	99821m	4.204	ppbv		
60) o-Xylene	9.966	91	51152	2.149	ppbv		99
61) Styrene	9.872	104	20842	2.025	ppbv		96
62) Isopropylbenzene	10.539	105	75206	2.103	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.966	83	29751	1.997	ppbv		100
64) n-propylbenzene	10.992	120	19146	2.117	ppbv		99
65) tert-Butylbenzene	11.532	119	68879	2.135	ppbv		98
66) Benzyl Chloride	11.617	91	5400	1.898	ppbv		99
67) sec-Butylbenzene	11.769	105	95968	2.149	ppbv		100
69) p-Isopropyltoluene	11.927	119	79236	2.153	ppbv		100
70) n-Butylbenzene	12.283	91	75430	2.122	ppbv		99
71) 2-Chlorotoluene	10.901	91	57724	2.114	ppbv		99
72) 4-Ethyltoluene	11.125	105	58841	2.098	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	48645	2.087	ppbv		97
74) 1,2,4-Trimethylbenzene	11.539	105	53084	2.118	ppbv		96
75) 1,3-Dichlorobenzene	11.610	146	32609	2.040	ppbv		98
76) 1,4-Dichlorobenzene	11.675	146	32527	2.060	ppbv		98
77) 1,2-Dichlorobenzene	11.950	146	32223	2.095	ppbv		100
78) Hexachloro-1,3-Butadiene	13.882	225	25358	2.224	ppbv		98
79) Naphthalene	13.513	128	37855	2.167	ppbv		100
80) Naphthalene,2-methyl-	14.462	142	4482	0.830	ppbv		94
81) 1,2,4-Trichlorobenzene	13.442	180	19425	2.035	ppbv		99

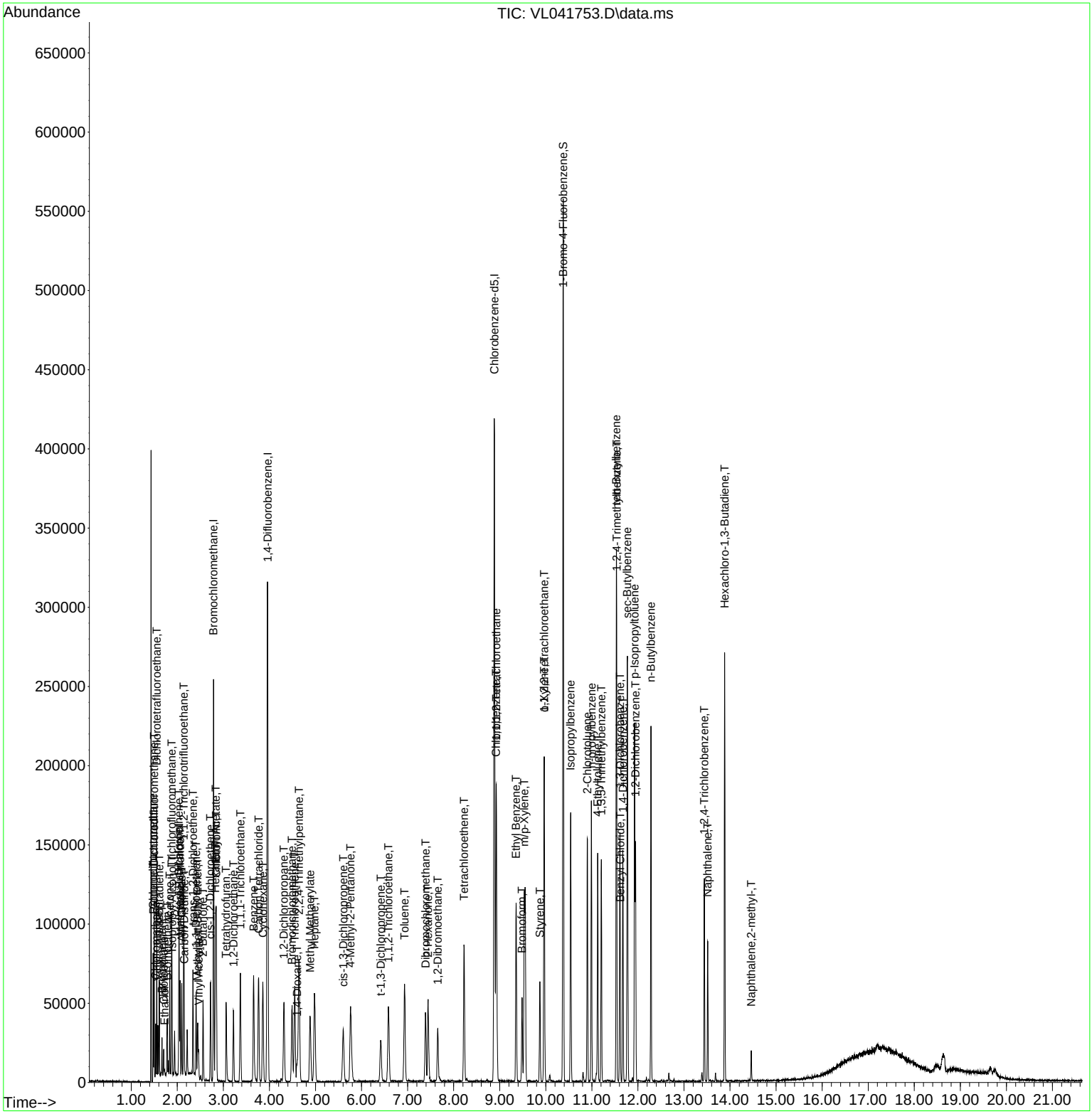
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041753.D
Acq On : 16 Dec 2024 14:03
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:12:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041754.D
Acq On : 16 Dec 2024 14:34
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:13:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	65928	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	178926	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	162267	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	132857	9.825	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	12706	1.083	ppbv	98
3) Chlorodifluoromethane	1.473	51	11187	1.041	ppbv	98
4) Chloromethane	1.531	50	4805	1.047	ppbv	99
5) Vinyl Chloride	1.580	62	4580	0.990	ppbv	98
6) Bromomethane	1.667	94	2394	1.097	ppbv	99
7) Chloroethane	1.703	64	1763	0.981	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	10938	1.042	ppbv	99
9) Propene	1.483	41	4840	1.039	ppbv	94
10) Heptane	4.972	43	12004	1.003	ppbv	93
11) Trichlorofluoromethane	1.874	101	12625	1.013	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	9915	1.046	ppbv	98
13) Ethanol	1.719	45	525m	1.355	ppbv	
14) Bromoethene	1.780	108	3148	0.984	ppbv #	86
15) Acetone	1.832	43	15060	1.174	ppbv	99
16) 1,3-Butadiene	1.609	39	5137	1.017	ppbv	95
17) tert-Butyl alcohol	2.039	59	13341	1.048	ppbv	96
18) 1,1-Dichloroethene	2.033	96	4139	1.042	ppbv	96
19) Isopropyl Alcohol	1.884	45	8703	1.131	ppbv	100
20) Methylene Chloride	2.059	84	3868	1.057	ppbv	92
21) Allyl Chloride	2.094	41	7425	1.067	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	4599	1.011	ppbv	96
23) Vinyl Acetate	2.460	43	5345	0.959	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	9621	1.045	ppbv	98
25) Ethyl Acetate	2.836	43	25141	1.049	ppbv	99
26) Hexane	2.826	57	9250	1.021	ppbv	93
27) Carbon Disulfide	2.149	76	8152	0.999	ppbv #	19
28) Methyl tert-Butyl Ether	2.441	73	8539	1.162	ppbv	94
29) Chloroform	2.845	83	14384	1.042	ppbv	96
30) Cyclohexane	3.852	84	7824	1.015	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	10013	1.070	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	14415	1.049	ppbv	98
34) 2-Butanone	2.557	43	14673	1.019	ppbv	99
35) Carbon Tetrachloride	3.761	117	12808m	1.008	ppbv	
36) Benzene	3.651	78	19331	1.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	11490	0.998	ppbv #	94
38) Trichloroethene	4.551	130	7824m	1.004	ppbv	
39) 1,2-Dichloropropane	4.311	63	7068	1.056	ppbv	86
40) 1,4-Dioxane	4.596	88	3241	0.991	ppbv #	40
41) Tetrahydrofuran	3.062	42	8727	1.082	ppbv	97
42) Bromodichloromethane	4.489	83	13154	0.993	ppbv	100
43) Methyl Methacrylate	4.875	69	7044m	0.999	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	32361	1.024	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	7027	0.963	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041754.D
Acq On : 16 Dec 2024 14:34
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:13:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	8815m	0.952	ppbv		
47) 1,1,2-Trichloroethane	6.587	97	7189m	1.028	ppbv		
48) Dibromochloromethane	7.383	129	8817	0.924	ppbv		97
49) Bromoform	9.480	173	7073	0.905	ppbv		96
50) 4-Methyl-2-Pentanone	5.761	43	20212	1.031	ppbv		100
51) 2-Hexanone	7.441	43	16514	1.040	ppbv	#	99
52) Tetrachloroethene	8.225	164	7067m	1.026	ppbv		
53) Toluene	6.930	91	21594	1.029	ppbv		100
54) 1,2-Dibromoethane	7.648	107	9758	1.013	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.924	131	8643	1.005	ppbv		93
57) Chlorobenzene	8.920	112	17500	1.054	ppbv		97
58) Ethyl Benzene	9.351	91	29762	1.019	ppbv		98
59) m/p-Xylene	9.529	91	47599m	2.026	ppbv		
60) o-Xylene	9.963	91	24210	1.028	ppbv		98
61) Styrene	9.869	104	9707	0.953	ppbv		100
62) Isopropylbenzene	10.539	105	36251	1.024	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.963	83	14752	1.001	ppbv		98
64) n-propylbenzene	10.985	120	9432	1.054	ppbv		91
65) tert-Butylbenzene	11.529	119	32887	1.030	ppbv		100
66) Benzyl Chloride	11.610	91	2518	0.894	ppbv		97
67) sec-Butylbenzene	11.765	105	45015	1.019	ppbv		98
69) p-Isopropyltoluene	11.924	119	36298	0.997	ppbv		98
70) n-Butylbenzene	12.280	91	35432	1.007	ppbv		98
71) 2-Chlorotoluene	10.901	91	27561	1.020	ppbv		97
72) 4-Ethyltoluene	11.125	105	26921	0.970	ppbv		98
73) 1,3,5-Trimethylbenzene	11.202	105	22360	0.969	ppbv		95
74) 1,2,4-Trimethylbenzene	11.536	105	24654	0.994	ppbv		98
75) 1,3-Dichlorobenzene	11.604	146	16476	1.042	ppbv		100
76) 1,4-Dichlorobenzene	11.668	146	15774	1.010	ppbv		98
77) 1,2-Dichlorobenzene	11.947	146	15866	1.043	ppbv		97
78) Hexachloro-1,3-Butadiene	13.882	225	12266	1.087	ppbv		97
79) Naphthalene	13.513	128	16971	0.982	ppbv		96
80) Naphthalene,2-methyl-	14.458	142	1504	0.281	ppbv	#	90
81) 1,2,4-Trichlorobenzene	13.439	180	8973	0.950	ppbv		96

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

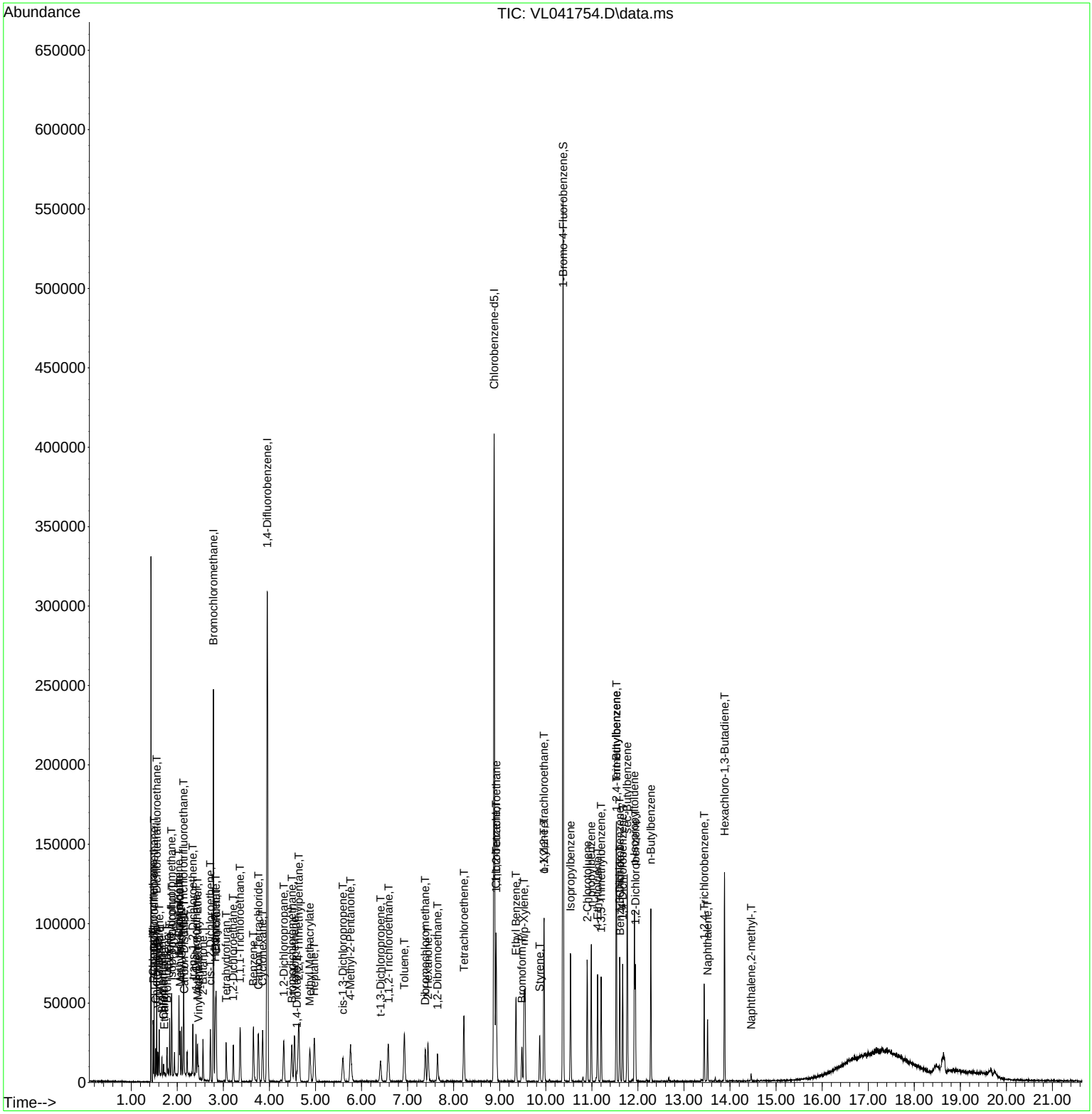
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041754.D
Acq On : 16 Dec 2024 14:34
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:13:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041755.D
Acq On : 16 Dec 2024 15:05
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:14:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	66562	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	178453	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	158571	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	132273	10.010	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	6277	0.530	ppbv		94
3) Chlorodifluoromethane	1.476	51	5587	0.515	ppbv		95
4) Chloromethane	1.531	50	2452	0.529	ppbv		90
5) Vinyl Chloride	1.580	62	2269	0.486	ppbv		97
6) Bromomethane	1.667	94	1143	0.519	ppbv	#	78
7) Chloroethane	1.703	64	939	0.518	ppbv		88
8) Dichlorotetrafluoroethane	1.554	85	5699	0.538	ppbv		97
9) Propene	1.483	41	2622	0.557	ppbv	#	82
10) Heptane	4.978	43	6491m	0.537	ppbv		
11) Trichlorofluoromethane	1.878	101	6594	0.524	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.140	101	4962	0.519	ppbv		96
13) Ethanol	1.719	45	269m	0.688	ppbv		
14) Bromoethene	1.781	108	1694	0.524	ppbv	#	93
15) Acetone	1.836	43	8233	0.636	ppbv		97
16) 1,3-Butadiene	1.609	39	2966	0.582	ppbv		88
17) tert-Butyl alcohol	2.043	59	6654	0.518	ppbv	#	91
18) 1,1-Dichloroethene	2.033	96	2022	0.504	ppbv		96
19) Isopropyl Alcohol	1.884	45	5687	0.732	ppbv	#	39
20) Methylene Chloride	2.062	84	2174	0.589	ppbv	#	91
21) Allyl Chloride	2.098	41	3354	0.478	ppbv		86
22) trans-1,2-Dichloroethene	2.341	96	2494	0.543	ppbv		83
23) Vinyl Acetate	2.464	43	2599	0.462	ppbv	#	98
24) 1,1-Dichloroethane	2.409	63	4854	0.522	ppbv	#	97
25) Ethyl Acetate	2.839	43	12040	0.497	ppbv	#	97
26) Hexane	2.829	57	4735	0.518	ppbv		96
27) Carbon Disulfide	2.153	76	3409	0.414	ppbv	#	37
28) Methyl tert-Butyl Ether	2.441	73	3438	0.464	ppbv		99
29) Chloroform	2.849	83	7172	0.515	ppbv		98
30) Cyclohexane	3.859	84	4051	0.521	ppbv		96
31) cis-1,2-Dichloroethene	2.723	61	4758	0.504	ppbv		91
32) 1,1,1-Trichloroethane	3.367	97	7182	0.518	ppbv		99
34) 2-Butanone	2.557	43	7756	0.540	ppbv		94
35) Carbon Tetrachloride	3.765	117	5655	0.446	ppbv		90
36) Benzene	3.658	78	9629	0.522	ppbv		97
37) 1,2-Dichloroethane	3.218	62	6154	0.536	ppbv		99
38) Trichloroethene	4.551	130	3637m	0.468	ppbv		
39) 1,2-Dichloropropane	4.318	63	3410m	0.511	ppbv		
40) 1,4-Dioxane	4.606	88	1892m	0.580	ppbv		
41) Tetrahydrofuran	3.066	42	4061	0.505	ppbv		99
42) Bromodichloromethane	4.490	83	5926m	0.448	ppbv		
43) Methyl Methacrylate	4.881	69	3322	0.472	ppbv		99
44) 2,2,4-Trimethylpentane	4.645	57	16294m	0.517	ppbv		
45) t-1,3-Dichloropropene	6.422	75	3406m	0.468	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041755.D
Acq On : 16 Dec 2024 15:05
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:14:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.597	75	4462m	0.483	ppbv		
47)	1,1,2-Trichloroethane	6.587	97	3636m	0.521	ppbv		
48)	Dibromochloromethane	7.387	129	3865	0.406	ppbv		99
49)	Bromoform	9.484	173	2928m	0.376	ppbv		
50)	4-Methyl-2-Pentanone	5.765	43	9479m	0.485	ppbv		
51)	2-Hexanone	7.451	43	7412	0.468	ppbv	#	99
52)	Tetrachloroethene	8.225	164	3091	0.450	ppbv	#	78
53)	Toluene	6.933	91	10554	0.504	ppbv		99
54)	1,2-Dibromoethane	7.658	107	4819m	0.502	ppbv		
56)	1,1,1,2-Tetrachloroethane	8.930	131	3858m	0.459	ppbv		
57)	Chlorobenzene	8.927	112	8346m	0.514	ppbv		
58)	Ethyl Benzene	9.358	91	13428	0.470	ppbv		97
59)	m/p-Xylene	9.552	91	22560m	0.983	ppbv		
60)	o-Xylene	9.963	91	10954	0.476	ppbv		98
61)	Styrene	9.869	104	4314	0.433	ppbv		94
62)	Isopropylbenzene	10.542	105	16953	0.490	ppbv		95
63)	1,1,2,2-Tetrachloroethane	9.966	83	7559	0.525	ppbv		98
64)	n-propylbenzene	10.989	120	4126	0.472	ppbv		92
65)	tert-Butylbenzene	11.529	119	15569	0.499	ppbv		99
66)	Benzyl Chloride	11.620	91	1340m	0.487	ppbv		
67)	sec-Butylbenzene	11.769	105	21263	0.492	ppbv		96
69)	p-Isopropyltoluene	11.928	119	17041	0.479	ppbv		99
70)	n-Butylbenzene	12.284	91	15671	0.456	ppbv		99
71)	2-Chlorotoluene	10.902	91	13000	0.492	ppbv		97
72)	4-Ethyltoluene	11.128	105	13324	0.491	ppbv		98
73)	1,3,5-Trimethylbenzene	11.206	105	10497	0.466	ppbv		91
74)	1,2,4-Trimethylbenzene	11.536	105	11070	0.457	ppbv	#	76
75)	1,3-Dichlorobenzene	11.604	146	8107	0.525	ppbv		99
76)	1,4-Dichlorobenzene	11.672	146	7893	0.517	ppbv		97
77)	1,2-Dichlorobenzene	11.950	146	7997	0.538	ppbv		96
78)	Hexachloro-1,3-Butadiene	13.882	225	6232	0.565	ppbv		98
79)	Naphthalene	13.517	128	7360	0.436	ppbv		99
80)	Naphthalene,2-methyl-	14.462	142	748	0.143	ppbv		94
81)	1,2,4-Trichlorobenzene	13.442	180	4248	0.460	ppbv		93

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

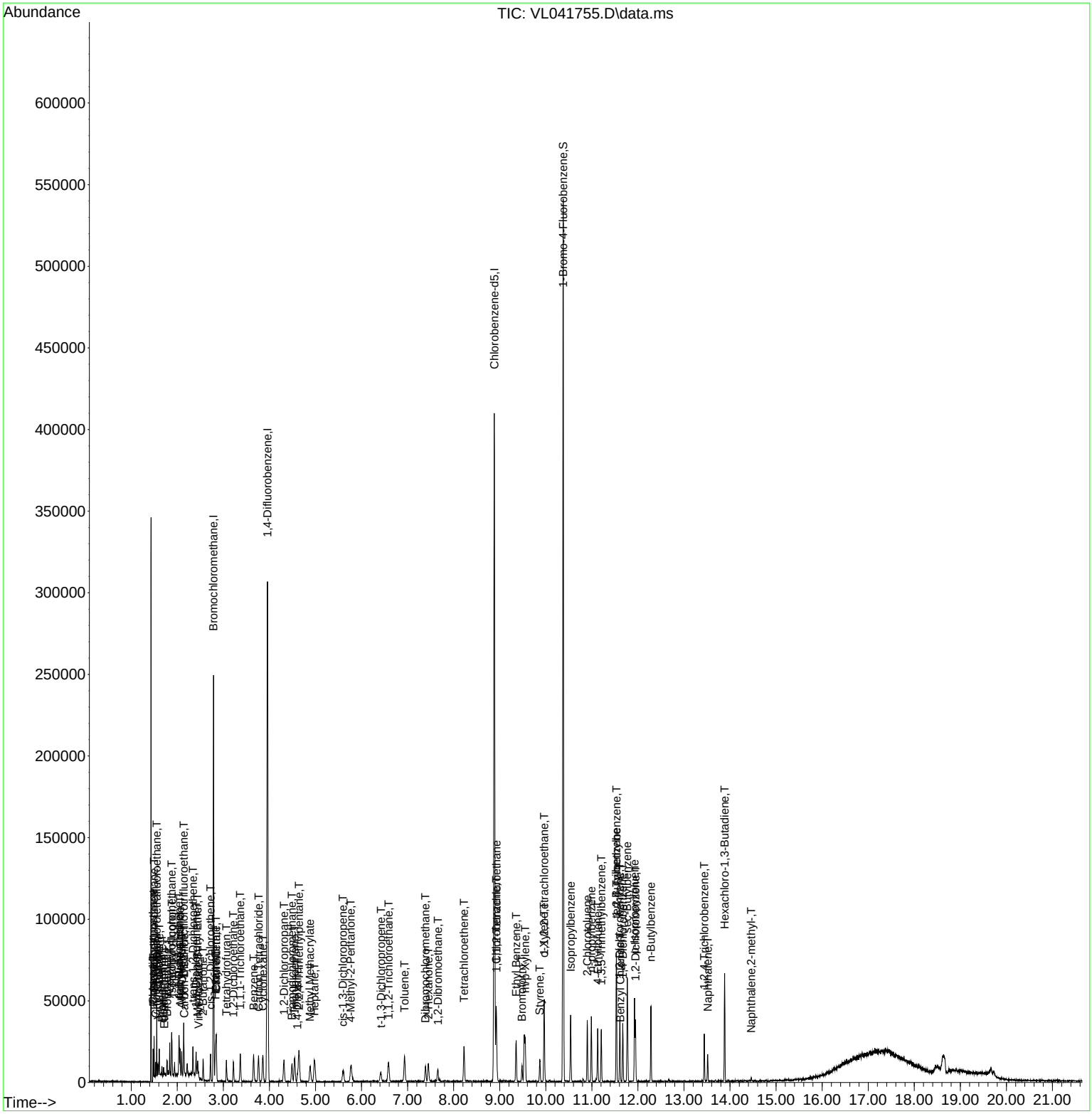
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041755.D
Acq On : 16 Dec 2024 15:05
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:14:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041756.D
Acq On : 16 Dec 2024 15:37
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:15:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	65926	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	177964	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	158649	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	131540	9.950	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.500%				
Target Compounds							Qvalue
5) Vinyl Chloride	1.580	62	444	0.096	ppbv	#	78
32) 1,1,1-Trichloroethane	3.370	97	1393	0.101	ppbv		97
35) Carbon Tetrachloride	3.771	117	1170	0.093	ppbv	#	84
38) Trichloroethene	4.548	130	835m	0.108	ppbv		
52) Tetrachloroethene	8.228	164	593m	0.087	ppbv		
54) 1,2-Dibromoethane	7.658	107	1005m	0.105	ppbv		
63) 1,1,2,2-Tetrachloroethane	9.966	83	1485m	0.103	ppbv		
79) Naphthalene	13.523	128	1196	0.071	ppbv	#	90

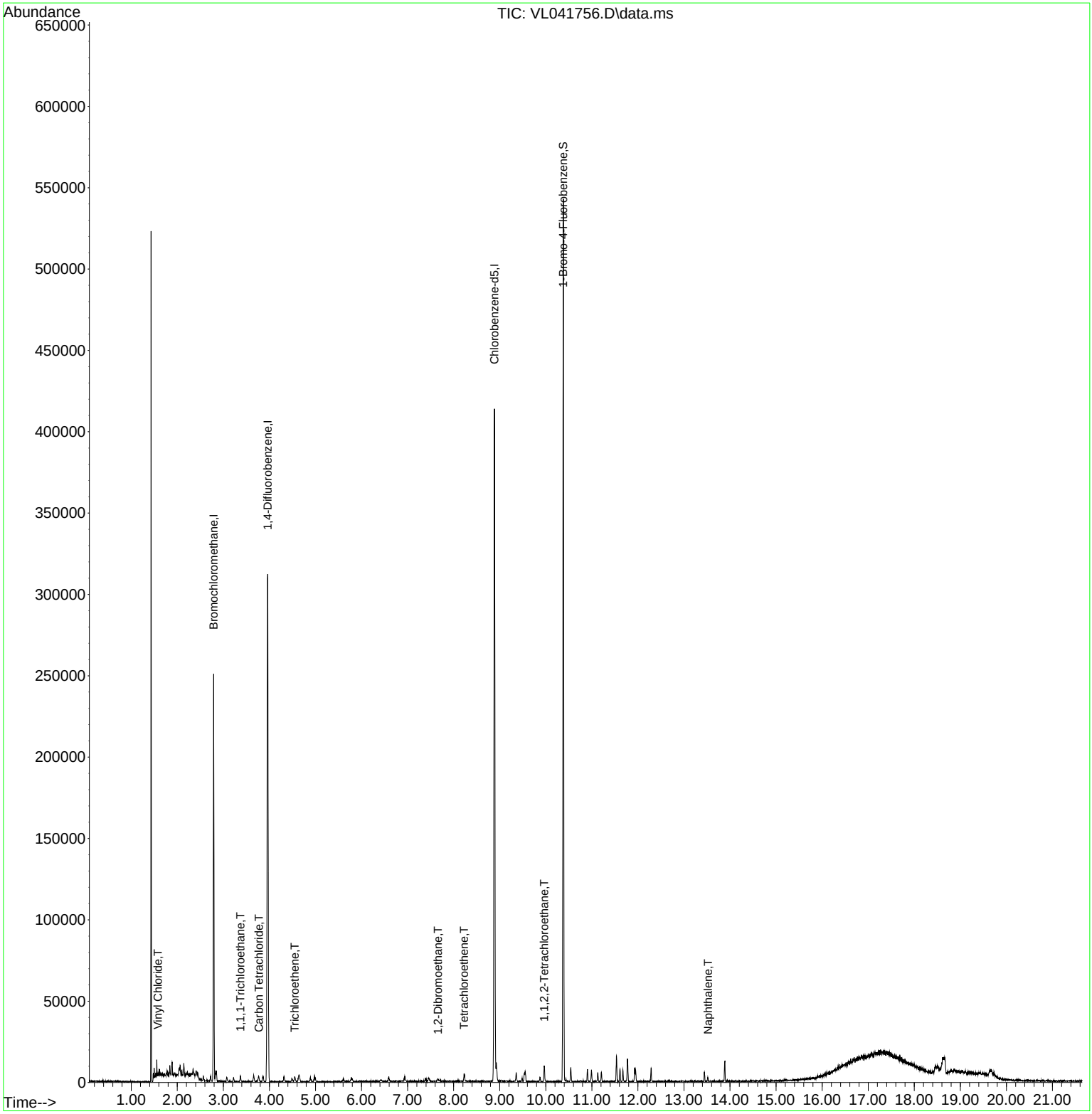
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041756.D
Acq On : 16 Dec 2024 15:37
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:15:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041757.D
Acq On : 16 Dec 2024 16:08
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:15:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	64158	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	174825	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	154998	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	128167	9.923	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	175	0.039	ppbv	# 84
32) 1,1,1-Trichloroethane	3.369	97	427m	0.032	ppbv	
35) Carbon Tetrachloride	3.768	117	352m	0.028	ppbv	
38) Trichloroethene	4.551	130	289m	0.038	ppbv	
52) Tetrachloroethene	8.234	164	291m	0.043	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	455	0.032	ppbv	# 96

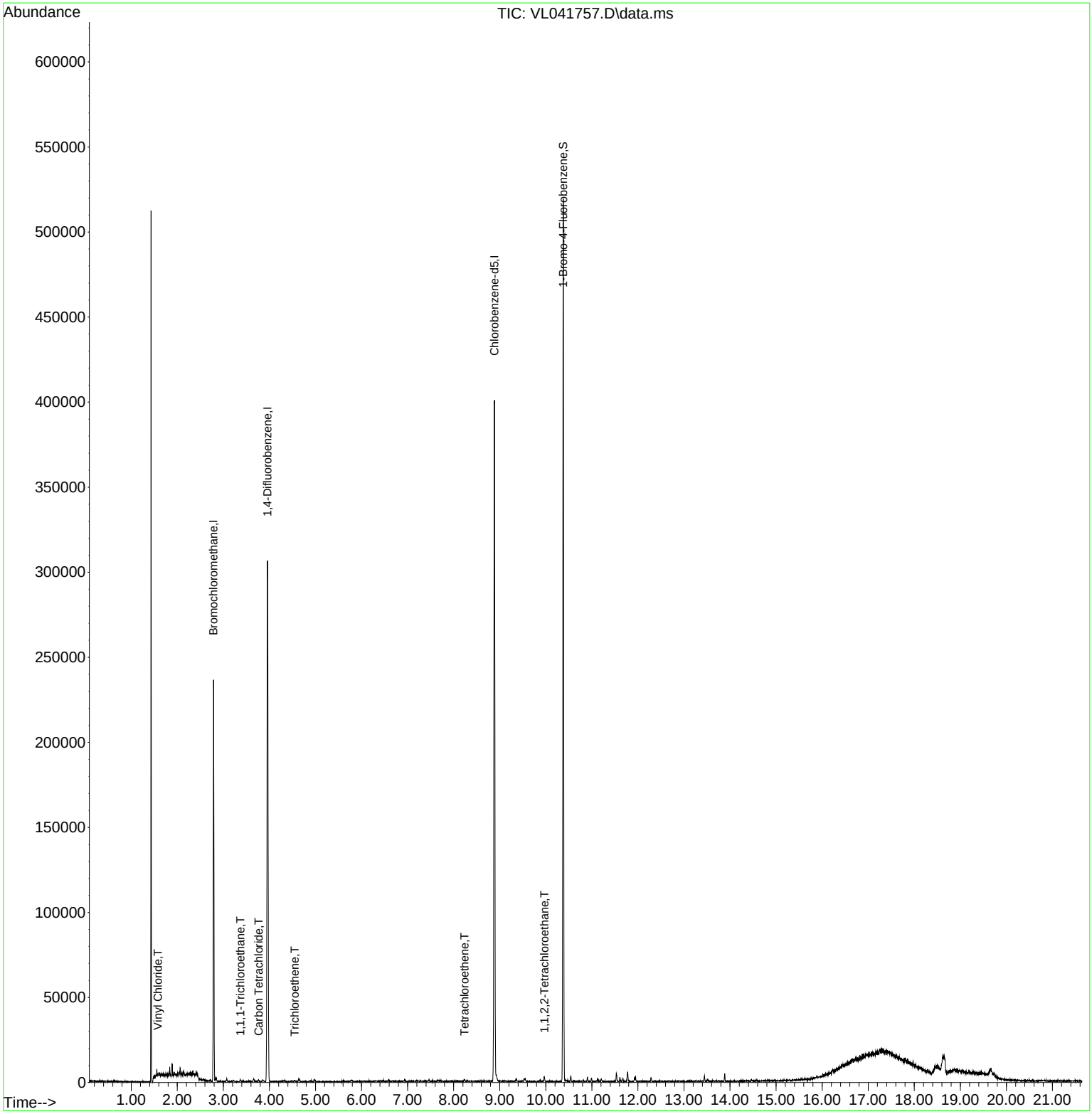
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041757.D
Acq On : 16 Dec 2024 16:08
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:15:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041758.D
Acq On : 16 Dec 2024 16:41
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	65186	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	176856	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	160457	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	133687	9.998	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	152683	13.163	ppbv		95
3) Chlorodifluoromethane	1.473	51	152455	14.341	ppbv		98
4) Chloromethane	1.531	50	63517	13.996	ppbv		98
5) Vinyl Chloride	1.577	62	62250	13.615	ppbv		99
6) Bromomethane	1.667	94	30345	14.064	ppbv		96
7) Chloroethane	1.703	64	25650	14.442	ppbv		95
8) Dichlorotetrafluoroethane	1.554	85	148190	14.274	ppbv		99
9) Propene	1.483	41	61515	13.351	ppbv		99
10) Heptane	4.978	43	168804	14.263	ppbv		100
11) Trichlorofluoromethane	1.874	101	177984	14.446	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.136	101	135538	14.464	ppbv		98
13) Ethanol	1.719	45	3643	9.509	ppbv		100
14) Bromoethene	1.780	108	47132	14.898	ppbv		99
15) Acetone	1.832	43	142980	11.273	ppbv		100
16) 1,3-Butadiene	1.606	39	68311	13.678	ppbv		98
17) tert-Butyl alcohol	2.036	59	177908	14.140	ppbv		99
18) 1,1-Dichloroethene	2.033	96	57770	14.705	ppbv		99
19) Isopropyl Alcohol	1.884	45	82211	10.802	ppbv		99
20) Methylene Chloride	2.059	84	48356	13.371	ppbv		99
21) Allyl Chloride	2.094	41	101528	14.760	ppbv		99
22) trans-1,2-Dichloroethene	2.337	96	65029	14.461	ppbv		97
23) Vinyl Acetate	2.460	43	80795	14.661	ppbv		98
24) 1,1-Dichloroethane	2.405	63	131030	14.394	ppbv		100
25) Ethyl Acetate	2.832	43	341429	14.402	ppbv		100
26) Hexane	2.823	57	128657	14.369	ppbv		99
27) Carbon Disulfide	2.149	76	134963	16.726	ppbv		99
28) Methyl tert-Butyl Ether	2.438	73	100758	13.871	ppbv		100
29) Chloroform	2.845	83	197713	14.489	ppbv		99
30) Cyclohexane	3.855	84	110448	14.497	ppbv		99
31) cis-1,2-Dichloroethene	2.719	61	132821	14.355	ppbv		99
32) 1,1,1-Trichloroethane	3.366	97	204468	15.055	ppbv		100
34) 2-Butanone	2.554	43	195439	13.736	ppbv		99
35) Carbon Tetrachloride	3.761	117	206252	16.428	ppbv		94
36) Benzene	3.654	78	259630	14.192	ppbv		99
37) 1,2-Dichloroethane	3.214	62	166576	14.633	ppbv		100
38) Trichloroethene	4.548	130	104184	13.525	ppbv		95
39) 1,2-Dichloropropane	4.312	63	93624	14.150	ppbv		97
40) 1,4-Dioxane	4.577	88	44377	13.730	ppbv	#	96
41) Tetrahydrofuran	3.052	42	113618	14.254	ppbv		100
42) Bromodichloromethane	4.486	83	211145	16.123	ppbv		96
43) Methyl Methacrylate	4.878	69	107165	15.374	ppbv		100
44) 2,2,4-Trimethylpentane	4.638	57	445947	14.274	ppbv		99
45) t-1,3-Dichloropropene	6.409	75	115159	15.973	ppbv		97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041758.D
Acq On : 16 Dec 2024 16:41
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.600	75	143172	15.643	ppbv		95
47)	1,1,2-Trichloroethane	6.580	97	98426	14.242	ppbv		94
48)	Dibromochloromethane	7.386	129	161661	17.131	ppbv		100
49)	Bromoform	9.484	173	137786	17.838	ppbv		99
50)	4-Methyl-2-Pentanone	5.749	43	285467	14.735	ppbv		99
51)	2-Hexanone	7.435	43	232363	14.798	ppbv	#	100
52)	Tetrachloroethene	8.225	164	93120	13.675	ppbv		98
53)	Toluene	6.930	91	301428	14.533	ppbv		100
54)	1,2-Dibromoethane	7.652	107	139889	14.690	ppbv		100
56)	1,1,1,2-Tetrachloroethane	8.924	131	128108	15.059	ppbv		99
57)	Chlorobenzene	8.924	112	227716	13.869	ppbv		100
58)	Ethyl Benzene	9.354	91	425852	14.742	ppbv		99
59)	m/p-Xylene	9.552	91	678656m	29.209	ppbv		
60)	o-Xylene	9.963	91	337891	14.506	ppbv		100
61)	Styrene	9.869	104	165328	16.415	ppbv		100
62)	Isopropylbenzene	10.539	105	506570	14.475	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.963	83	201057	13.790	ppbv		100
64)	n-propylbenzene	10.989	120	129200	14.602	ppbv		97
65)	tert-Butylbenzene	11.532	119	446690	14.148	ppbv		98
66)	Benzyl Chloride	11.617	91	45189	16.234	ppbv		99
67)	sec-Butylbenzene	11.769	105	624565	14.295	ppbv		99
69)	p-Isopropyltoluene	11.927	119	528265	14.671	ppbv		99
70)	n-Butylbenzene	12.283	91	525377	15.101	ppbv		100
71)	2-Chlorotoluene	10.901	91	387300	14.498	ppbv		100
72)	4-Ethyltoluene	11.125	105	409822	14.934	ppbv		100
73)	1,3,5-Trimethylbenzene	11.202	105	350895	15.383	ppbv		97
74)	1,2,4-Trimethylbenzene	11.539	105	371476	15.144	ppbv		96
75)	1,3-Dichlorobenzene	11.610	146	219506	14.036	ppbv		99
76)	1,4-Dichlorobenzene	11.672	146	222290	14.388	ppbv		99
77)	1,2-Dichlorobenzene	11.947	146	205737	13.672	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.882	225	138481	12.412	ppbv		100
79)	Naphthalene	13.513	128	301006	17.611	ppbv		99
80)	Naphthalene,2-methyl-	14.458	142	161927	30.630	ppbv		98
81)	1,2,4-Trichlorobenzene	13.442	180	146340	15.669	ppbv		99

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

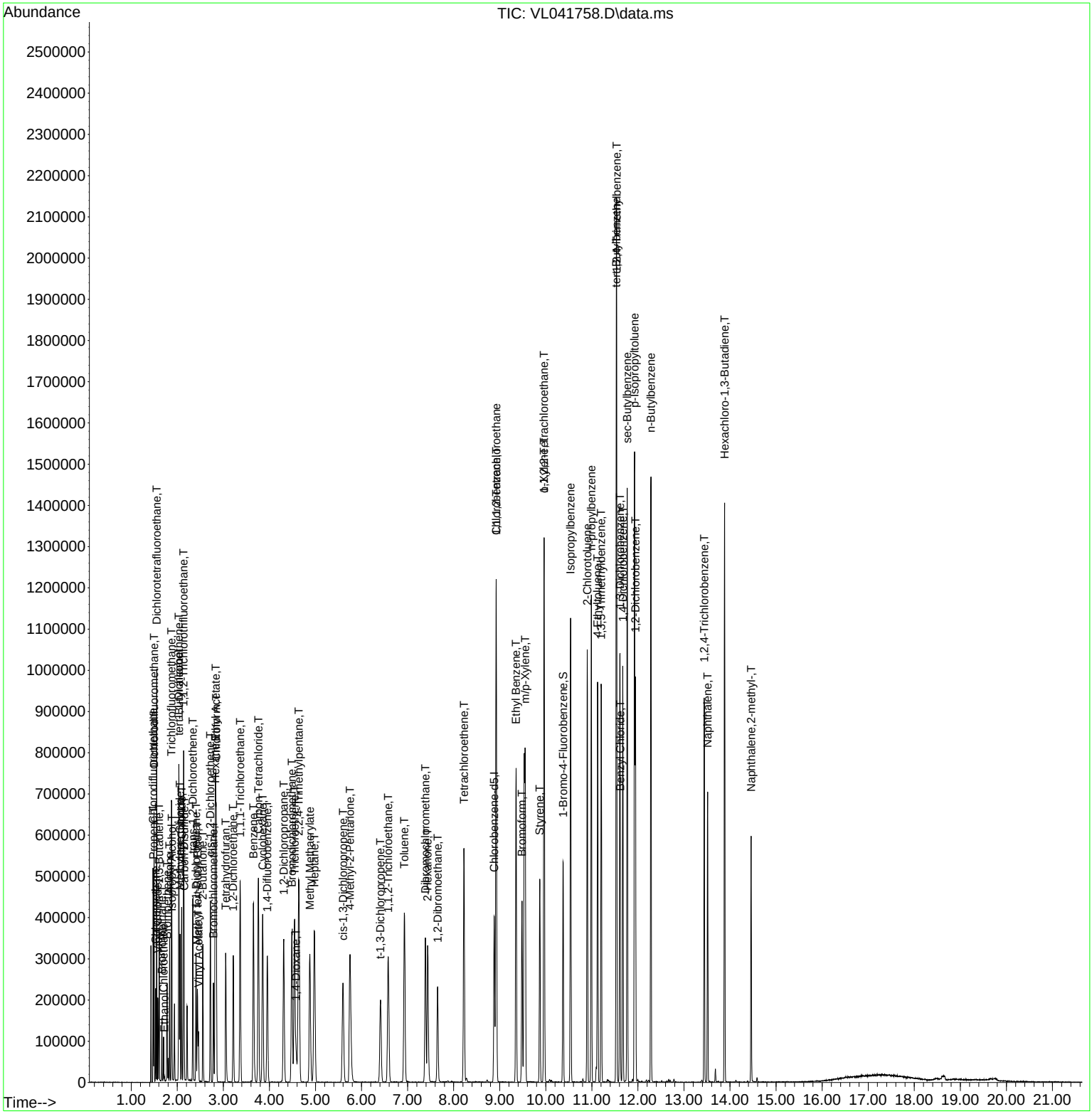
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041758.D
Acq On : 16 Dec 2024 16:41
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 06:16:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041759.D
Acq On : 16 Dec 2024 18:59
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 07:36:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	64976	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	174378	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	153443	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	129985	10.166	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	106780	9.236	ppbv	95
3) Chlorodifluoromethane	1.476	51	105141	9.922	ppbv	99
4) Chloromethane	1.531	50	43409	9.596	ppbv	96
5) Vinyl Chloride	1.580	62	40956	8.986	ppbv	97
6) Bromomethane	1.667	94	19590	9.109	ppbv	94
7) Chloroethane	1.703	64	17356	9.803	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	99858	9.650	ppbv	98
9) Propene	1.483	41	41721	9.084	ppbv	98
10) Heptane	4.981	43	115804	9.816	ppbv	99
11) Trichlorofluoromethane	1.877	101	115785	9.428	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	88265	9.450	ppbv	100
13) Ethanol	1.722	45	2749m	7.229	ppbv	
14) Bromoethene	1.780	108	31492	9.987	ppbv	98
15) Acetone	1.835	43	94879	7.505	ppbv	99
16) 1,3-Butadiene	1.609	39	45119	9.063	ppbv	98
17) tert-Butyl alcohol	2.039	59	122035	9.730	ppbv	100
18) 1,1-Dichloroethene	2.033	96	37466	9.568	ppbv	98
19) Isopropyl Alcohol	1.884	45	57577	7.590	ppbv	98
20) Methylene Chloride	2.062	84	32325	8.967	ppbv	96
21) Allyl Chloride	2.094	41	67596	9.859	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	42651	9.515	ppbv	97
23) Vinyl Acetate	2.463	43	51812	8.826	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	87006	9.589	ppbv	100
25) Ethyl Acetate	2.835	43	234370	9.965	ppbv	100
26) Hexane	2.826	57	87034	9.752	ppbv	97
27) Carbon Disulfide	2.149	76	85650	10.649	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	62189	8.589	ppbv	99
29) Chloroform	2.848	83	134541	9.892	ppbv	98
30) Cyclohexane	3.858	84	75274	9.912	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	91628	9.935	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	137978	9.979	ppbv	99
34) 2-Butanone	2.557	43	133939	9.547	ppbv	99
35) Carbon Tetrachloride	3.764	117	138537	11.191	ppbv	97
36) Benzene	3.658	78	176537	9.787	ppbv	99
37) 1,2-Dichloroethane	3.221	62	112037	9.982	ppbv	99
38) Trichloroethene	4.551	130	70108	9.156	ppbv	96
39) 1,2-Dichloropropane	4.318	63	63675	9.761	ppbv	95
40) 1,4-Dioxane	4.583	88	30891	9.693	ppbv #	98
41) Tetrahydrofuran	3.056	42	77472	9.857	ppbv	99
42) Bromodichloromethane	4.493	83	139717	10.821	ppbv	95
43) Methyl Methacrylate	4.881	69	70299	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.641	57	301772	9.796	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	77534	10.907	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041759.D
Acq On : 16 Dec 2024 18:59
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 07:36:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	95812	10.617	ppbv		97
47) 1,1,2-Trichloroethane	6.587	97	66169m	9.711	ppbv		
48) Dibromochloromethane	7.389	129	105378	11.326	ppbv		100
49) Bromoform	9.487	173	88971	11.682	ppbv		100
50) 4-Methyl-2-Pentanone	5.758	43	190637	9.980	ppbv		99
51) 2-Hexanone	7.441	43	155646	10.053	ppbv	#	100
52) Tetrachloroethene	8.228	164	62782	9.351	ppbv		96
53) Toluene	6.933	91	199754	9.768	ppbv		99
54) 1,2-Dibromoethane	7.655	107	93439	9.952	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.927	131	85883	10.558	ppbv		99
57) Chlorobenzene	8.924	112	155257	9.888	ppbv		98
58) Ethyl Benzene	9.357	91	284770	10.308	ppbv		98
59) m/p-Xylene	9.555	91	459102m	20.669	ppbv		
60) o-Xylene	9.966	91	229517	10.304	ppbv		98
61) Styrene	9.875	104	106841	11.093	ppbv		99
62) Isopropylbenzene	10.542	105	348887	10.425	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.966	83	137547	9.865	ppbv		99
64) n-propylbenzene	10.992	120	87865	10.384	ppbv		98
65) tert-Butylbenzene	11.536	119	307790	10.194	ppbv		100
66) Benzyl Chloride	11.620	91	29398	11.054	ppbv		99
67) sec-Butylbenzene	11.772	105	430521	10.304	ppbv		99
69) p-Isopropyltoluene	11.927	119	365667	10.620	ppbv		100
70) n-Butylbenzene	12.283	91	356880	10.727	ppbv		99
71) 2-Chlorotoluene	10.904	91	264123	10.340	ppbv		99
72) 4-Ethyltoluene	11.128	105	280580	10.672	ppbv		99
73) 1,3,5-Trimethylbenzene	11.205	105	237804	10.902	ppbv		95
74) 1,2,4-Trimethylbenzene	11.542	105	256141	10.919	ppbv	#	88
75) 1,3-Dichlorobenzene	11.610	146	149927	10.025	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	152212	10.302	ppbv		99
77) 1,2-Dichlorobenzene	11.950	146	142734	9.919	ppbv		100
78) Hexachloro-1,3-Butadiene	13.885	225	94671	8.873	ppbv		99
79) Naphthalene	13.516	128	202413	12.384	ppbv		100
80) Naphthalene,2-methyl-	14.461	142	102431	20.261	ppbv		98
81) 1,2,4-Trichlorobenzene	13.442	180	98468	11.025	ppbv		99

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

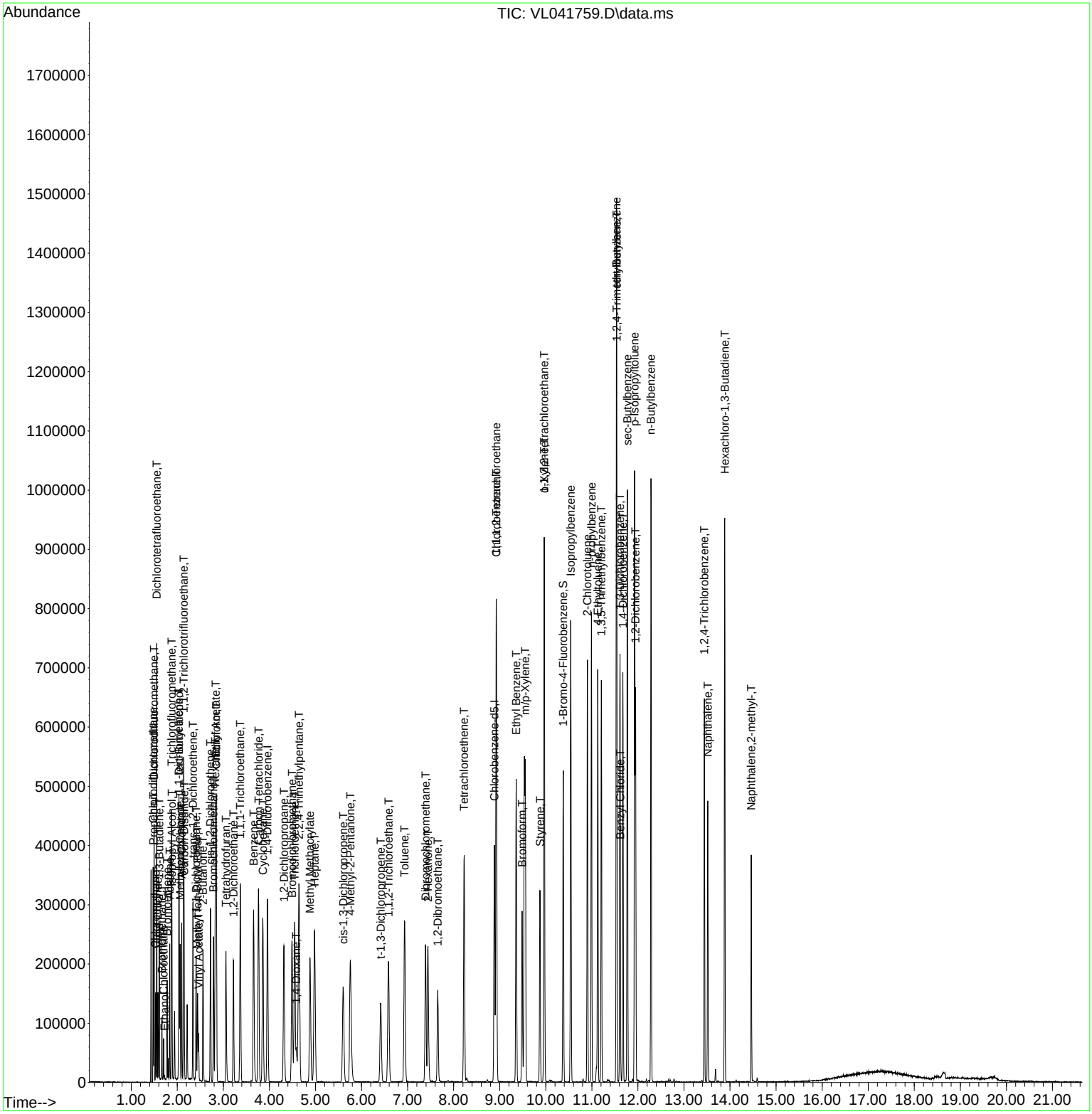
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041759.D
Acq On : 16 Dec 2024 18:59
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 07:36:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041759.D
Acq On : 16 Dec 2024 18:59
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Quant Time: Dec 19 07:36:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
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	1.779	1.643	7.6	93	0.00
3		Chlorodifluoromethane	1.631	1.618	0.8	98	0.00
4		Chloromethane	0.696	0.668	4.0	100	0.00
5	T	Vinyl Chloride	0.701	0.630	10.1	96	0.00
6	T	Bromomethane	0.331	0.301	9.1	97	0.00
7		Chloroethane	0.272	0.267	1.8	100	0.00
8	T	Dichlorotetrafluoroethane	1.593	1.537	3.5	100	0.00
9	T	Propene	0.707	0.642	9.2	96	0.00
10	T	Heptane	1.816	1.782	1.9	99	0.00
11	T	Trichlorofluoromethane	1.890	1.782	5.7	94	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.437	1.358	5.5	96	0.00
13		Ethanol	0.059	0.042#	28.8	111	0.00
14	T	Bromoethene	0.485	0.485	0.0	97	0.00
15	T	Acetone	1.946	1.460	25.0	95	0.00
16	T	1,3-Butadiene	0.766	0.694	9.4	96	0.00
17		tert-Butyl alcohol	1.930	1.878	2.7	97	0.00
18	T	1,1-Dichloroethene	0.603	0.577	4.3	97	0.00
19	T	Isopropyl Alcohol	1.167	0.886	24.1	98	0.00
20	T	Methylene Chloride	0.555	0.497	10.5	99	0.00
21	T	Allyl Chloride	1.055	1.040	1.4	97	0.00
22	T	trans-1,2-Dichloroethene	0.690	0.656	4.9	97	0.00
23	T	Vinyl Acetate	0.903	0.797	11.7	96	0.00
24	T	1,1-Dichloroethane	1.396	1.339	4.1	97	0.00
25	T	Ethyl Acetate	3.620	3.607	0.4	100	0.00
26	T	Hexane	1.374	1.339	2.5	97	0.00
27	T	Carbon Disulfide	1.238	1.318	-6.5	93	0.00
28	T	Methyl tert-Butyl Ether	1.114	0.957	14.1	83	0.00
29	T	Chloroform	2.093	2.071	1.1	100	0.00
30	T	Cyclohexane	1.169	1.158	0.9	100	0.00
31	T	cis-1,2-Dichloroethene	1.419	1.410	0.6	100	0.00
32	T	1,1,1-Trichloroethane	2.128	2.124	0.2	99	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
34	T	2-Butanone	0.805	0.768	4.6	99	0.00
35	T	Carbon Tetrachloride	0.710	0.794	-11.8	100	0.00
36	T	Benzene	1.034	1.012	2.1	99	0.00
37	T	1,2-Dichloroethane	0.644	0.642	0.3	100	0.00
38	T	Trichloroethene	0.439	0.402	8.4	98	0.00
39	T	1,2-Dichloropropane	0.374	0.365	2.4	98	0.00
40	T	1,4-Dioxane	0.183	0.177	3.3	101	0.00
41	T	Tetrahydrofuran	0.451	0.444	1.6	99	0.00
42	T	Bromodichloromethane	0.740	0.801	-8.2	98	0.00
43		Methyl Methacrylate	0.394	0.403	-2.3	97	0.00
44	T	2,2,4-Trimethylpentane	1.767	1.731	2.0	98	0.00
45	T	t-1,3-Dichloropropene	0.408	0.445	-9.1	100	0.00
46	T	cis-1,3-Dichloropropene	0.518	0.549	-6.0	98	0.00
47	T	1,1,2-Trichloroethane	0.391	0.379	3.1	98	0.00
48	T	Dibromochloromethane	0.534	0.604	-13.1	97	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041759.D
Acq On : 16 Dec 2024 18:59
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL121624

Quant Time: Dec 19 07:36:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
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	0.437	0.510	-16.7	97	0.00
50	T	4-Methyl-2-Pentanone	1.095	1.093	0.2	98	0.00
51	T	2-Hexanone	0.888	0.893	-0.6	99	0.00
52	T	Tetrachloroethene	0.385	0.360	6.5	100	0.00
53	T	Toluene	1.173	1.146	2.3	97	0.00
54	T	1,2-Dibromoethane	0.538	0.536	0.4	99	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56		1,1,1,2-Tetrachloroethane	0.530	0.560	-5.7	99	0.00
57	T	Chlorobenzene	1.023	1.012	1.1	100	0.00
58	T	Ethyl Benzene	1.800	1.856	-3.1	98	0.00
59	T	m/p-Xylene	1.448	1.496	-3.3	99	0.00
60	T	o-Xylene	1.452	1.496	-3.0	99	0.00
61	T	Styrene	0.628	0.696	-10.8	97	0.00
62		Isopropylbenzene	2.181	2.274	-4.3	100	0.00
63	T	1,1,2,2-Tetrachloroethane	0.909	0.896	1.4	100	0.00
64		n-propylbenzene	0.551	0.573	-4.0	101	0.00
65		tert-Butylbenzene	1.968	2.006	-1.9	100	0.00
66	T	Benzyl Chloride	0.173	0.192	-11.0	95	0.00
67		sec-Butylbenzene	2.723	2.806	-3.0	100	0.00
68	S	1-Bromo-4-Fluorobenzene	0.833	0.847	-1.7	94	0.00
69		p-Isopropyltoluene	2.244	2.383	-6.2	101	0.00
70		n-Butylbenzene	2.168	2.326	-7.3	99	0.00
71		2-Chlorotoluene	1.665	1.721	-3.4	100	0.00
72	T	4-Ethyltoluene	1.713	1.829	-6.8	99	0.00
73	T	1,3,5-Trimethylbenzene	1.422	1.550	-9.0	99	0.00
74	T	1,2,4-Trimethylbenzene	1.529	1.669	-9.2	100	0.00
75	T	1,3-Dichlorobenzene	0.975	0.977	-0.2	99	0.00
76	T	1,4-Dichlorobenzene	0.963	0.992	-3.0	100	0.00
77	T	1,2-Dichlorobenzene	0.938	0.930	0.9	101	0.00
78	T	Hexachloro-1,3-Butadiene	0.695	0.617	11.2	99	0.00
79	T	Naphthalene	1.065	1.319	-23.8	98	0.00
80	T	Naphthalene,2-methyl-	0.329	0.668	-103.0#	96	0.00
81	T	1,2,4-Trichlorobenzene	0.582	0.642	-10.3	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

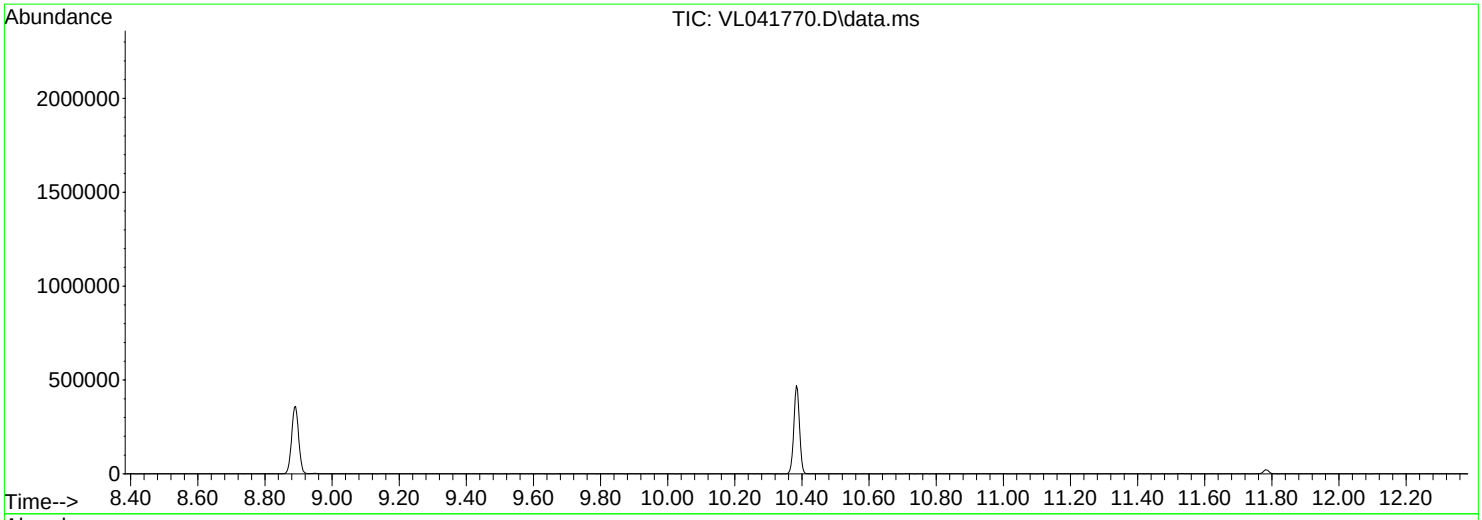
BFB

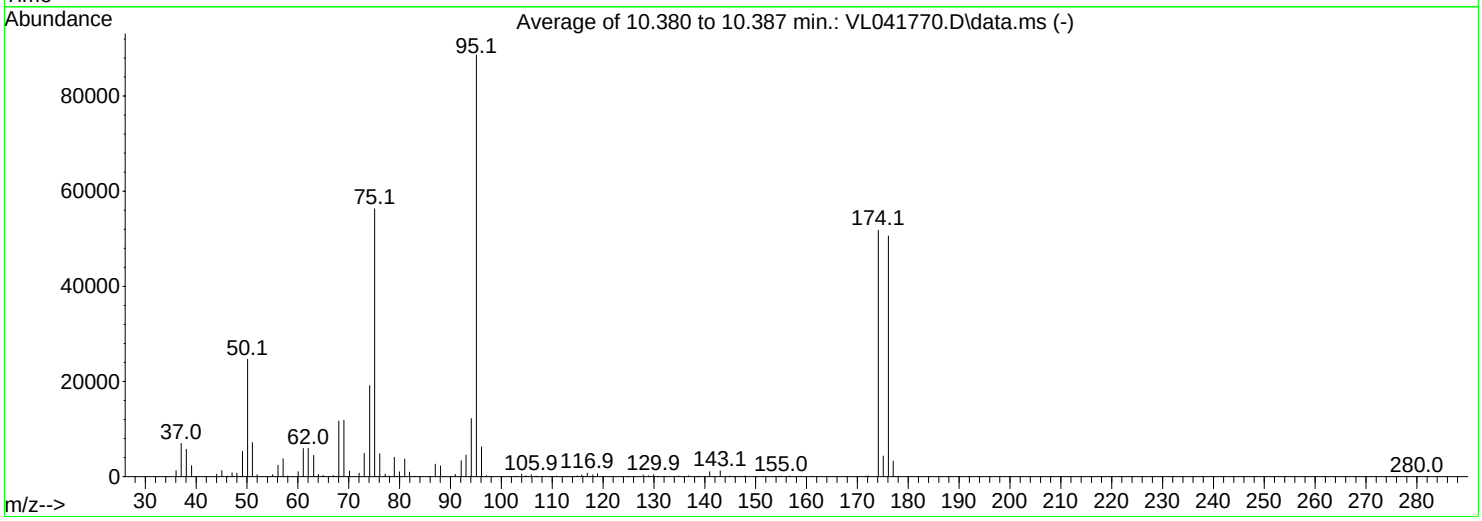
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041770.D
Acq On : 17 Dec 2024 08:44
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Thu Dec 19 07:32:09 2024





AutoFind: Scans 3180, 3181, 3182; 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	27.8	24648	PASS
75	95	30	66	63.5	56309	PASS
95	95	100	100	100.0	88664	PASS
96	95	5	9	7.1	6255	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	58.4	51792	PASS
175	174	4	9	8.4	4336	PASS
176	174	93	101	97.7	50603	PASS
177	176	5	9	6.5	3270	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041771.D
Acq On : 17 Dec 2024 09:49
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 01:02:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	63883	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	170187	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	148019	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	126112	10.224	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	114858	10.104	ppbv	98
3) Chlorodifluoromethane	1.476	51	106911	10.262	ppbv	98
4) Chloromethane	1.534	50	46946	10.555	ppbv	99
5) Vinyl Chloride	1.583	62	44602	9.954	ppbv	98
6) Bromomethane	1.670	94	20846	9.858	ppbv	95
7) Chloroethane	1.706	64	18045	10.367	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	106150	10.433	ppbv	97
9) Propene	1.486	41	38601	8.548	ppbv	94
10) Heptane	4.991	43	112356	9.687	ppbv	99
11) Trichlorofluoromethane	1.881	101	124685	10.327	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	94656	10.308	ppbv	99
13) Ethanol	1.722	45	2836m	7.585	ppbv	
14) Bromoethene	1.784	108	32828	10.588	ppbv	97
15) Acetone	1.839	43	102064	8.211	ppbv	98
16) 1,3-Butadiene	1.612	39	48987	10.009	ppbv	98
17) tert-Butyl alcohol	2.043	59	124445	10.092	ppbv	99
18) 1,1-Dichloroethene	2.036	96	40376	10.487	ppbv	95
19) Isopropyl Alcohol	1.887	45	58910	7.899	ppbv	96
20) Methylene Chloride	2.065	84	34491	9.731	ppbv	97
21) Allyl Chloride	2.098	41	68576	10.173	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	44672	10.136	ppbv	99
23) Vinyl Acetate	2.467	43	50341	8.723	ppbv	98
24) 1,1-Dichloroethane	2.412	63	93890	10.525	ppbv	98
25) Ethyl Acetate	2.842	43	235645	10.191	ppbv	100
26) Hexane	2.829	57	87940	10.022	ppbv	97
27) Carbon Disulfide	2.153	76	81899	10.357	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	68145	9.573	ppbv	96
29) Chloroform	2.855	83	140153	10.481	ppbv	98
30) Cyclohexane	3.865	84	73570	9.854	ppbv	99
31) cis-1,2-Dichloroethene	2.726	61	91424	10.083	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	144527	10.632	ppbv	98
34) 2-Butanone	2.560	43	134057	9.791	ppbv	99
35) Carbon Tetrachloride	3.771	117	144928	11.996	ppbv	96
36) Benzene	3.664	78	176315	10.016	ppbv	99
37) 1,2-Dichloroethane	3.224	62	117688	10.744	ppbv	100
38) Trichloroethene	4.557	130	71903	9.622	ppbv	98
39) 1,2-Dichloropropane	4.324	63	63050	9.903	ppbv	99
40) 1,4-Dioxane	4.593	88	30339	9.754	ppbv #	95
41) Tetrahydrofuran	3.059	42	72983	9.515	ppbv	97
42) Bromodichloromethane	4.499	83	141557	11.233	ppbv	96
43) Methyl Methacrylate	4.891	69	70021	10.439	ppbv	97
44) 2,2,4-Trimethylpentane	4.651	57	299816	9.972	ppbv	98
45) t-1,3-Dichloropropene	6.425	75	72674	10.475	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041771.D
Acq On : 17 Dec 2024 09:49
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 01:02:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.613	75	89477	10.159	ppbv		98
47)	1,1,2-Trichloroethane	6.593	97	67399	10.135	ppbv		96
48)	Dibromochloromethane	7.399	129	105580	11.627	ppbv		99
49)	Bromoform	9.493	173	84969	11.431	ppbv		99
50)	4-Methyl-2-Pentanone	5.768	43	187697	10.068	ppbv		99
51)	2-Hexanone	7.448	43	149660	9.904	ppbv	#	100
52)	Tetrachloroethene	8.234	164	62093	9.476	ppbv		95
53)	Toluene	6.946	91	198382	9.940	ppbv		100
54)	1,2-Dibromoethane	7.665	107	96206	10.499	ppbv		99
56)	1,1,1,2-Tetrachloroethane	8.933	131	89730	11.435	ppbv		98
57)	Chlorobenzene	8.930	112	156382	10.324	ppbv		100
58)	Ethyl Benzene	9.364	91	284336	10.670	ppbv		96
59)	m/p-Xylene	9.561	91	467116m	21.800	ppbv		
60)	o-Xylene	9.972	91	232011	10.798	ppbv		100
61)	Styrene	9.879	104	106367	11.448	ppbv		99
62)	Isopropylbenzene	10.549	105	351803	10.897	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.972	83	141837	10.546	ppbv		99
64)	n-propylbenzene	10.998	120	90334	11.067	ppbv		98
65)	tert-Butylbenzene	11.539	119	313159	10.752	ppbv		97
66)	Benzyl Chloride	11.623	91	24817	9.673	ppbv		99
67)	sec-Butylbenzene	11.775	105	444694	11.033	ppbv		100
69)	p-Isopropyltoluene	11.934	119	369199	11.115	ppbv		100
70)	n-Butylbenzene	12.290	91	367292	11.444	ppbv		99
71)	2-Chlorotoluene	10.908	91	267997	10.876	ppbv		100
72)	4-Ethyltoluene	11.134	105	285054	11.239	ppbv		99
73)	1,3,5-Trimethylbenzene	11.212	105	243649	11.579	ppbv		98
74)	1,2,4-Trimethylbenzene	11.545	105	260072	11.493	ppbv		98
75)	1,3-Dichlorobenzene	11.617	146	152917	10.599	ppbv		98
76)	1,4-Dichlorobenzene	11.678	146	155829	10.934	ppbv		99
77)	1,2-Dichlorobenzene	11.953	146	144600	10.417	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.889	225	94068	9.139	ppbv		99
79)	Naphthalene	13.520	128	203690	12.919	ppbv		98
80)	Naphthalene,2-methyl-	14.465	142	99597	20.423	ppbv		99
81)	1,2,4-Trichlorobenzene	13.449	180	97162	11.277	ppbv		98

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

Quantitation Report (QT Reviewed)

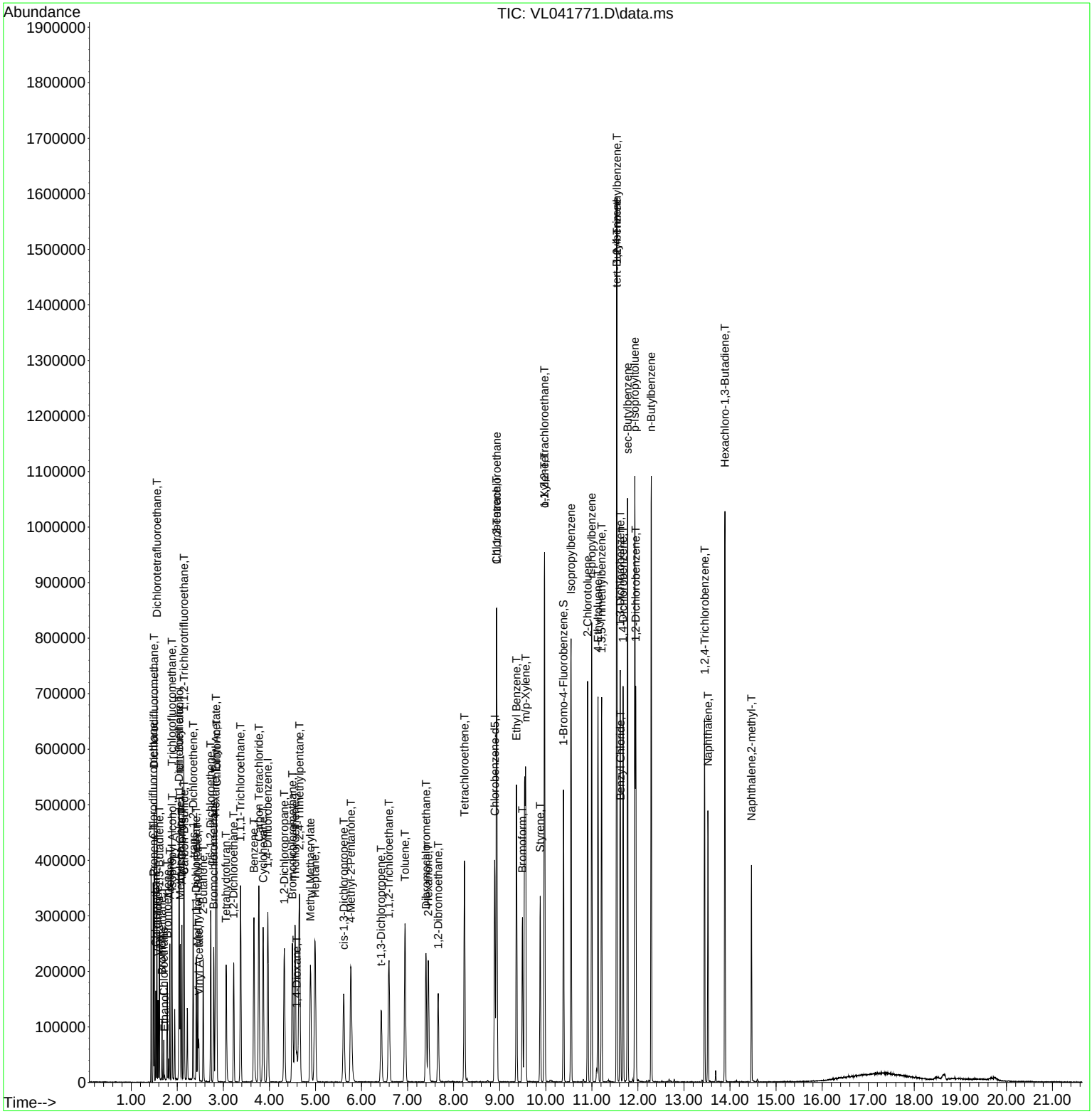
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041771.D
Acq On : 17 Dec 2024 09:49
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 01:02:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041771.D
Acq On : 17 Dec 2024 09:49
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Dec 21 01:02:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
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	1.779	1.798	-1.1	100	0.00
3		Chlorodifluoromethane	1.631	1.674	-2.6	100	0.00
4		Chloromethane	0.696	0.735	-5.6	109	0.00
5	T	Vinyl Chloride	0.701	0.698	0.4	104	0.00
6	T	Bromomethane	0.331	0.326	1.5	103	0.00
7		Chloroethane	0.272	0.282	-3.7	104	0.00
8	T	Dichlorotetrafluoroethane	1.593	1.662	-4.3	106	0.00
9	T	Propene	0.707	0.604	14.6	89	0.00
10	T	Heptane	1.816	1.759	3.1	96	0.01
11	T	Trichlorofluoromethane	1.890	1.952	-3.3	102	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.437	1.482	-3.1	103	0.00
13		Ethanol	0.059	0.044#	25.4	114	0.00
14	T	Bromoethene	0.485	0.514	-6.0	101	0.00
15	T	Acetone	1.946	1.598	17.9	102	0.00
16	T	1,3-Butadiene	0.766	0.767	-0.1	104	0.00
17		tert-Butyl alcohol	1.930	1.948	-0.9	99	0.00
18	T	1,1-Dichloroethene	0.603	0.632	-4.8	104	0.00
19	T	Isopropyl Alcohol	1.167	0.922	21.0	100	0.00
20	T	Methylene Chloride	0.555	0.540	2.7	105	0.00
21	T	Allyl Chloride	1.055	1.073	-1.7	99	0.00
22	T	trans-1,2-Dichloroethene	0.690	0.699	-1.3	102	0.00
23	T	Vinyl Acetate	0.903	0.788	12.7	93	0.00
24	T	1,1-Dichloroethane	1.396	1.470	-5.3	104	0.00
25	T	Ethyl Acetate	3.620	3.689	-1.9	100	0.00
26	T	Hexane	1.374	1.377	-0.2	98	0.00
27	T	Carbon Disulfide	1.238	1.282	-3.6	89	0.00
28	T	Methyl tert-Butyl Ether	1.114	1.067	4.2	90	0.00
29	T	Chloroform	2.093	2.194	-4.8	104	0.00
30	T	Cyclohexane	1.169	1.152	1.5	98	0.00
31	T	cis-1,2-Dichloroethene	1.419	1.431	-0.8	100	0.00
32	T	1,1,1-Trichloroethane	2.128	2.262	-6.3	104	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34	T	2-Butanone	0.805	0.788	2.1	99	0.00
35	T	Carbon Tetrachloride	0.710	0.852	-20.0	104	0.01
36	T	Benzene	1.034	1.036	-0.2	98	0.00
37	T	1,2-Dichloroethane	0.644	0.692	-7.5	105	0.00
38	T	Trichloroethene	0.439	0.422	3.9	101	0.01
39	T	1,2-Dichloropropane	0.374	0.370	1.1	97	0.02
40	T	1,4-Dioxane	0.183	0.178	2.7	99	0.01
41	T	Tetrahydrofuran	0.451	0.429	4.9	93	0.00
42	T	Bromodichloromethane	0.740	0.832	-12.4	99	0.02
43		Methyl Methacrylate	0.394	0.411	-4.3	96	0.01
44	T	2,2,4-Trimethylpentane	1.767	1.762	0.3	97	0.01
45	T	t-1,3-Dichloropropene	0.408	0.427	-4.7	93	0.01
46	T	cis-1,3-Dichloropropene	0.518	0.526	-1.5	91	0.02
47	T	1,1,2-Trichloroethane	0.391	0.396	-1.3	100	0.02
48	T	Dibromochloromethane	0.534	0.620	-16.1	97	0.02

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041771.D
Acq On : 17 Dec 2024 09:49
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Dec 21 01:02:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
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	0.437	0.499	-14.2	93	0.01
50	T	4-Methyl-2-Pentanone	1.095	1.103	-0.7	96	0.02
51	T	2-Hexanone	0.888	0.879	1.0	95	0.02
52	T	Tetrachloroethene	0.385	0.365	5.2	99	0.01
53	T	Toluene	1.173	1.166	0.6	96	0.02
54	T	1,2-Dibromoethane	0.538	0.565	-5.0	102	0.02
55	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.01
56		1,1,1,2-Tetrachloroethane	0.530	0.606	-14.3	103	0.00
57	T	Chlorobenzene	1.023	1.056	-3.2	101	0.00
58	T	Ethyl Benzene	1.800	1.921	-6.7	98	0.00
59	T	m/p-Xylene	1.448	1.578	-9.0	101	0.01
60	T	o-Xylene	1.452	1.567	-7.9	100	0.00
61	T	Styrene	0.628	0.719	-14.5	97	0.00
62		Isopropylbenzene	2.181	2.377	-9.0	101	0.00
63	T	1,1,2,2-Tetrachloroethane	0.909	0.958	-5.4	103	0.00
64		n-propylbenzene	0.551	0.610	-10.7	103	0.00
65		tert-Butylbenzene	1.968	2.116	-7.5	101	0.00
66	T	Benzyl Chloride	0.173	0.168	2.9	80	0.00
67		sec-Butylbenzene	2.723	3.004	-10.3	103	0.00
68	S	1-Bromo-4-Fluorobenzene	0.833	0.852	-2.3	91	0.00
69		p-Isopropyltoluene	2.244	2.494	-11.1	102	0.00
70		n-Butylbenzene	2.168	2.481	-14.4	102	0.00
71		2-Chlorotoluene	1.665	1.811	-8.8	102	0.00
72	T	4-Ethyltoluene	1.713	1.926	-12.4	101	0.00
73	T	1,3,5-Trimethylbenzene	1.422	1.646	-15.8	102	0.00
74	T	1,2,4-Trimethylbenzene	1.529	1.757	-14.9	102	0.00
75	T	1,3-Dichlorobenzene	0.975	1.033	-5.9	101	0.00
76	T	1,4-Dichlorobenzene	0.963	1.053	-9.3	102	0.00
77	T	1,2-Dichlorobenzene	0.938	0.977	-4.2	102	0.00
78	T	Hexachloro-1,3-Butadiene	0.695	0.636	8.5	98	0.00
79	T	Naphthalene	1.065	1.376	-29.2	99	0.00
80	T	Naphthalene,2-methyl-	0.329	0.673	-104.6#	94	0.00
81	T	1,2,4-Trichlorobenzene	0.582	0.656	-12.7	96	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\VL121724\
Data File : VL041774.D
Acq On : 17 Dec 2024 11:38
Operator : SY/MD
Sample : VL1217ABL03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1217ABL03

Quant Time: Dec 21 01:23:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

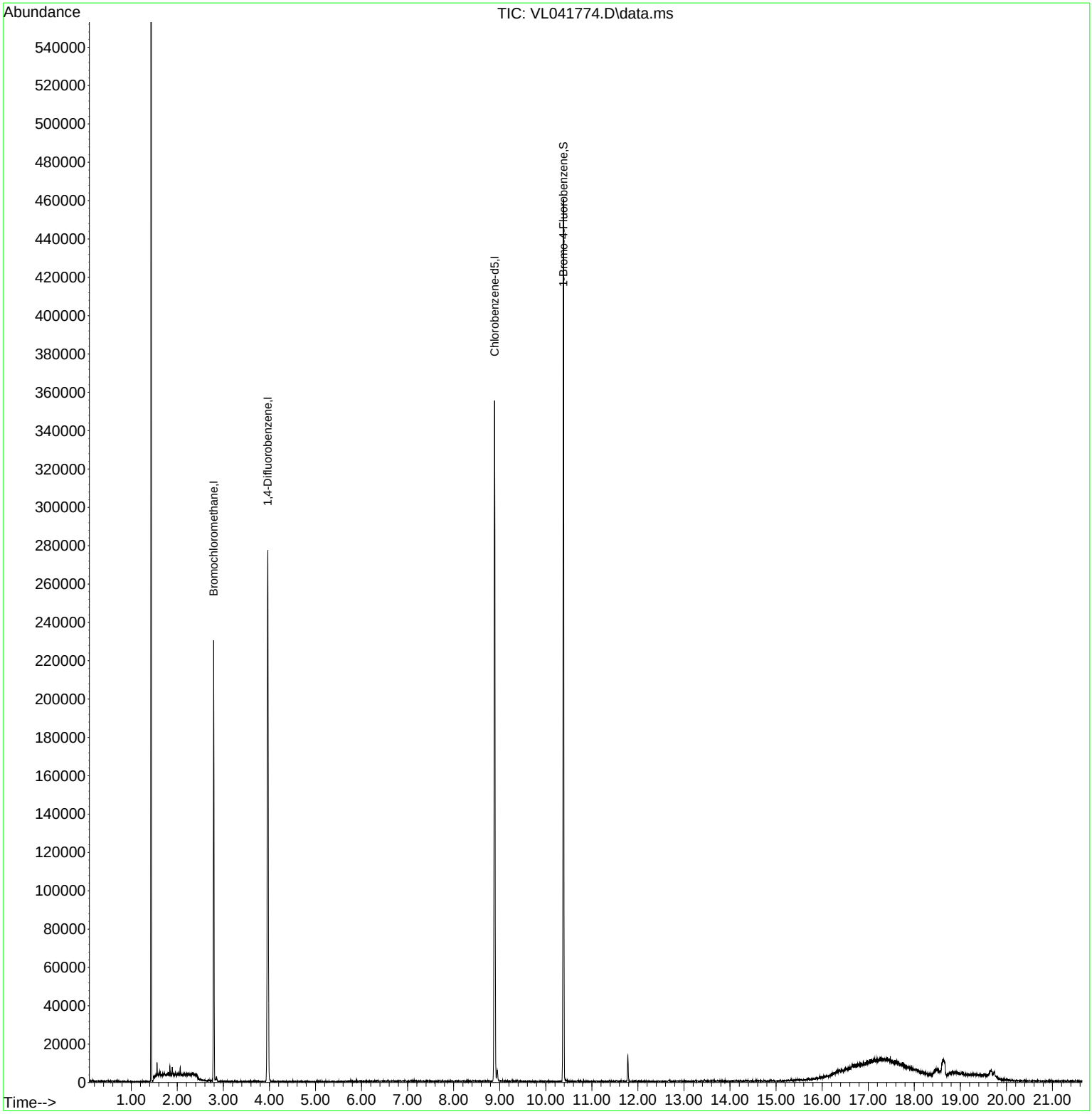
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	58655	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	151953	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	129932	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	107886	9.964	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041774.D
Acq On : 17 Dec 2024 11:38
Operator : SY/MD
Sample : VL1217ABL03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1217ABL03

Quant Time: Dec 21 01:23:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041782.D
Acq On : 17 Dec 2024 16:48
Operator : SY/MD
Sample : QC120324 CAN 10279
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC120324 CAN 10279

Quant Time: Dec 21 01:23:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

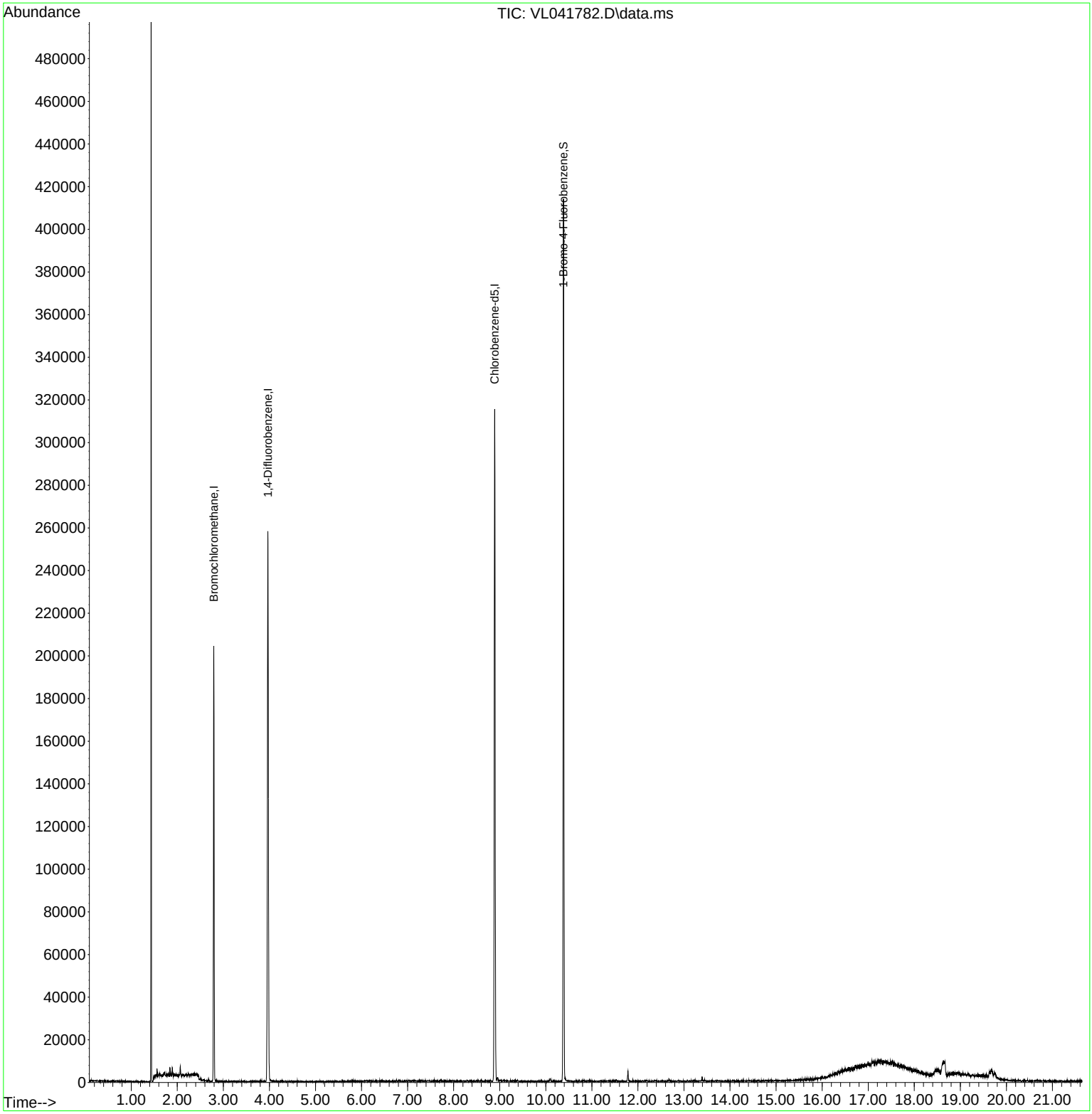
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	52249	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	133574	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	111625	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	92764	9.972	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.700%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041782.D
Acq On : 17 Dec 2024 16:48
Operator : SY/MD
Sample : QC120324 CAN 10279
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC120324 CAN 10279

Quant Time: Dec 21 01:23:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041785.D
Acq On : 17 Dec 2024 18:21
Operator : SY/MD
Sample : VL1217ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 01:24:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1217ABS01

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	54213	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	140075	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	121094	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	105471	10.452	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	122071	12.654	ppbv	96
3) Chlorodifluoromethane	1.476	51	97620	11.042	ppbv	97
4) Chloromethane	1.535	50	45514	12.059	ppbv	100
5) Vinyl Chloride	1.580	62	41769	10.984	ppbv	99
6) Bromomethane	1.667	94	20050	11.173	ppbv	97
7) Chloroethane	1.706	64	17448	11.812	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	103546	11.993	ppbv	98
9) Propene	1.483	41	33269	8.682	ppbv	100
10) Heptane	4.988	43	97758	9.932	ppbv	98
11) Trichlorofluoromethane	1.878	101	126103	12.307	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	91035	11.681	ppbv	97
13) Ethanol	1.722	45	2169	6.836	ppbv	99
14) Bromoethene	1.784	108	30006	11.405	ppbv	98
15) Acetone	1.836	43	102941	9.759	ppbv	98
16) 1,3-Butadiene	1.609	39	50702	12.207	ppbv	92
17) tert-Butyl alcohol	2.039	59	118264	11.302	ppbv	100
18) 1,1-Dichloroethene	2.036	96	37940	11.612	ppbv	94
19) Isopropyl Alcohol	1.887	45	50959	8.051	ppbv #	37
20) Methylene Chloride	2.062	84	32617	10.844	ppbv	97
21) Allyl Chloride	2.098	41	65202	11.397	ppbv	96
22) trans-1,2-Dichloroethene	2.340	96	41460	11.086	ppbv	97
23) Vinyl Acetate	2.463	43	38650	7.891	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	89281	11.793	ppbv	99
25) Ethyl Acetate	2.836	43	202270	10.308	ppbv	99
26) Hexane	2.829	57	75521	10.142	ppbv	95
27) Carbon Disulfide	2.153	76	70287	10.474	ppbv	94
28) Methyl tert-Butyl Ether	2.441	73	60841	10.071	ppbv	99
29) Chloroform	2.852	83	131902	11.623	ppbv	98
30) Cyclohexane	3.858	84	63139	9.965	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	77368	10.054	ppbv	98
32) 1,1,1-Trichloroethane	3.370	97	127851	11.082	ppbv	98
34) 2-Butanone	2.557	43	117732	10.447	ppbv	99
35) Carbon Tetrachloride	3.765	117	132599	13.335	ppbv	100
36) Benzene	3.661	78	152574	10.530	ppbv	97
37) 1,2-Dichloroethane	3.221	62	109290	12.122	ppbv	98
38) Trichloroethene	4.554	130	60544	9.844	ppbv	94
39) 1,2-Dichloropropane	4.318	63	54900	10.476	ppbv	94
40) 1,4-Dioxane	4.590	88	23530	9.192	ppbv #	94
41) Tetrahydrofuran	3.059	42	60687	9.613	ppbv	99
42) Bromodichloromethane	4.496	83	125015	12.053	ppbv	99
43) Methyl Methacrylate	4.884	69	56790	10.287	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	265340	10.723	ppbv	96
45) t-1,3-Dichloropropene	6.422	75	53137	9.305	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041785.D
Acq On : 17 Dec 2024 18:21
Operator : SY/MD
Sample : VL1217ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 01:24:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1217ABS01

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.609	75	68915	9.506	ppbv	#	95
47)	1,1,2-Trichloroethane	6.587	97	60020	10.965	ppbv		94
48)	Dibromochloromethane	7.396	129	87978	11.771	ppbv		99
49)	Bromoform	9.487	173	69543	11.367	ppbv		99
50)	4-Methyl-2-Pentanone	5.762	43	161524	10.527	ppbv		98
51)	2-Hexanone	7.445	43	124882	10.041	ppbv	#	98
52)	Tetrachloroethene	8.231	164	50417	9.348	ppbv		92
53)	Toluene	6.940	91	164444	10.010	ppbv		100
54)	1,2-Dibromoethane	7.655	107	81185	10.764	ppbv		96
56)	1,1,1,2-Tetrachloroethane	8.930	131	77953	12.143	ppbv		99
57)	Chlorobenzene	8.927	112	133682	10.788	ppbv		99
58)	Ethyl Benzene	9.361	91	238227	10.927	ppbv		98
59)	m/p-Xylene	9.555	91	403788m	23.035	ppbv		
60)	o-Xylene	9.969	91	203719	11.589	ppbv		100
61)	Styrene	9.875	104	81621	10.738	ppbv		99
62)	Isopropylbenzene	10.545	105	301277	11.407	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.969	83	120585	10.959	ppbv		98
64)	n-propylbenzene	10.995	120	75657	11.330	ppbv		100
65)	tert-Butylbenzene	11.536	119	265393	11.138	ppbv		97
66)	Benzyl Chloride	11.620	91	15405	7.340	ppbv		98
67)	sec-Butylbenzene	11.772	105	369494	11.206	ppbv		100
69)	p-Isopropyltoluene	11.931	119	293875	10.815	ppbv		98
70)	n-Butylbenzene	12.287	91	286572	10.915	ppbv		98
71)	2-Chlorotoluene	10.905	91	217719	10.800	ppbv		97
72)	4-Ethyltoluene	11.128	105	233768	11.266	ppbv		99
73)	1,3,5-Trimethylbenzene	11.209	105	199390	11.582	ppbv		99
74)	1,2,4-Trimethylbenzene	11.542	105	216724	11.707	ppbv		97
75)	1,3-Dichlorobenzene	11.610	146	119553	10.129	ppbv		99
76)	1,4-Dichlorobenzene	11.675	146	117225	10.054	ppbv		99
77)	1,2-Dichlorobenzene	11.950	146	114949	10.122	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.886	225	72933	8.662	ppbv		98
79)	Naphthalene	13.517	128	150651	11.679	ppbv		99
80)	Naphthalene,2-methyl-	14.462	142	51565	12.925	ppbv		96
81)	1,2,4-Trichlorobenzene	13.445	180	71526	10.148	ppbv		97

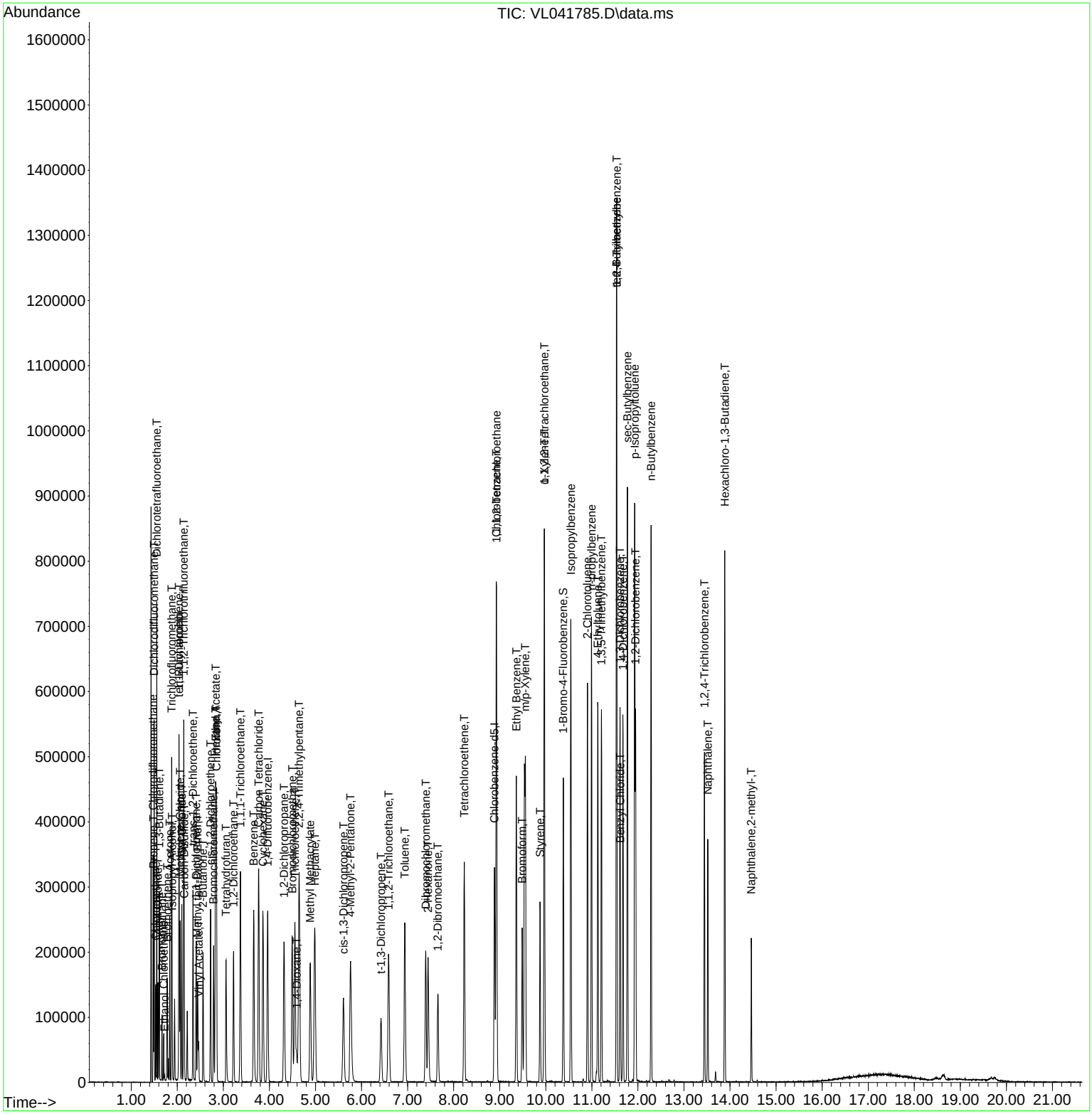
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
Data File : VL041785.D
Acq On : 17 Dec 2024 18:21
Operator : SY/MD
Sample : VL1217ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 01:24:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1217ABS01

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



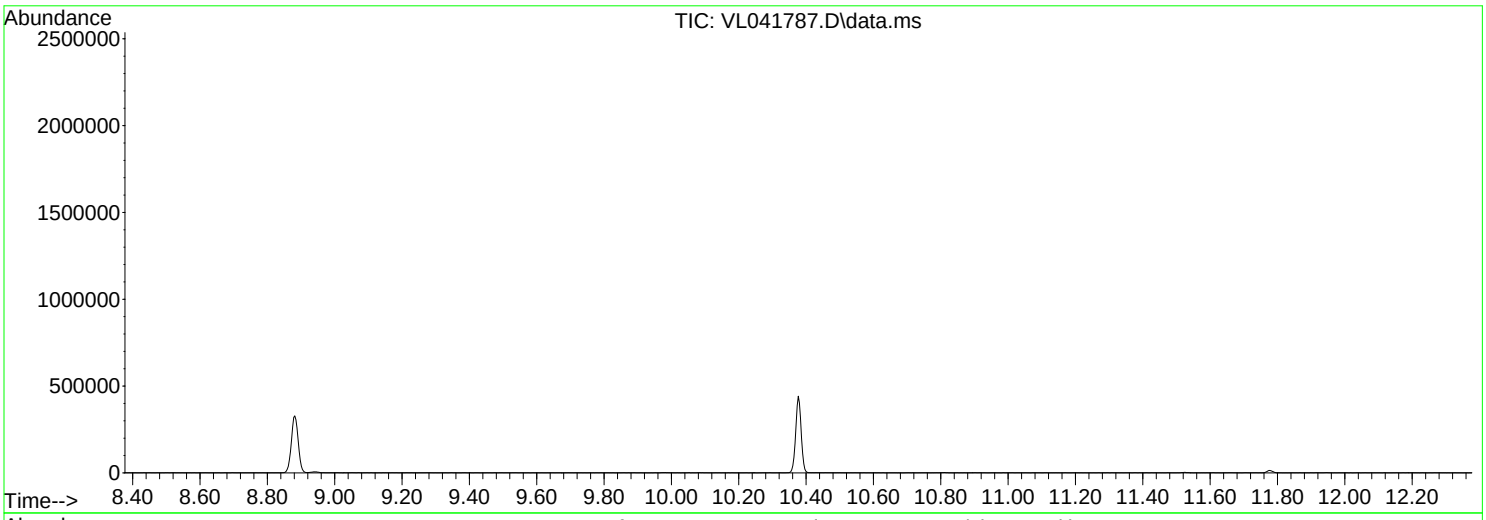
BFB

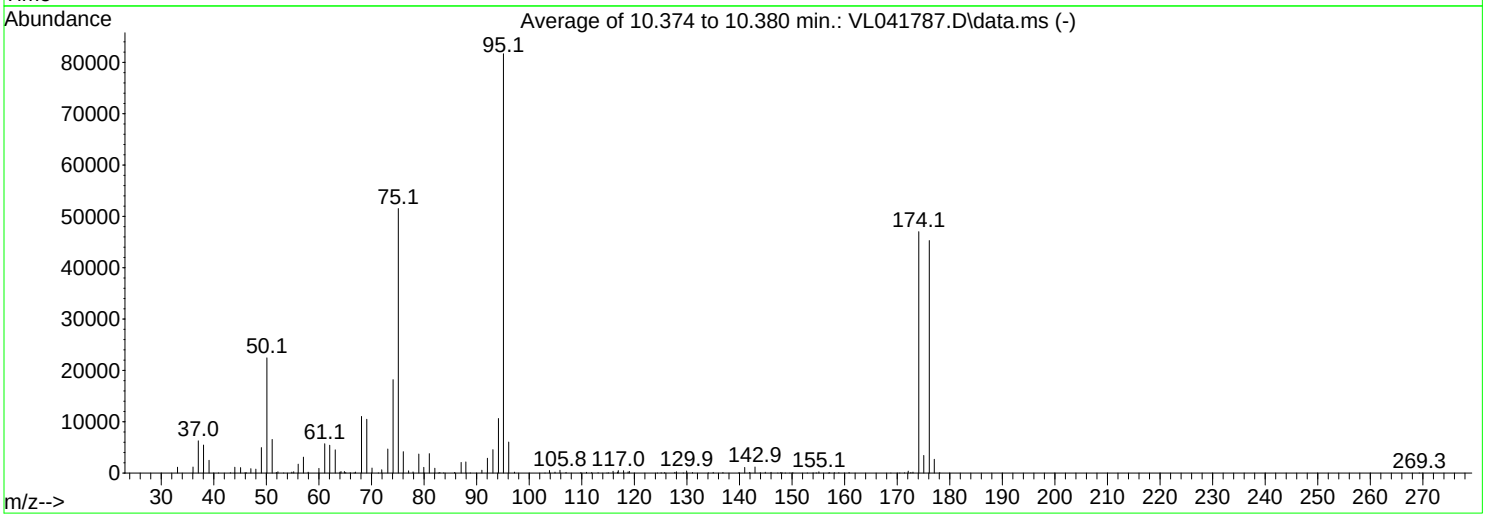
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041787.D
Acq On : 18 Dec 2024 08:06
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Thu Dec 19 07:32:09 2024





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	27.5	22445	PASS
75	95	30	66	63.1	51533	PASS
95	95	100	100	100.0	81685	PASS
96	95	5	9	7.4	6040	PASS
173	174	0.00	2	0.4	189	PASS
174	95	50	120	57.6	47024	PASS
175	174	4	9	7.3	3435	PASS
176	174	93	101	96.3	45299	PASS
177	176	5	9	5.9	2683	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041788.D
Acq On : 18 Dec 2024 10:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 07:49:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	76040	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	198370	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	172190	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	150705	10.503	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	112841	8.340	ppbv	96
3) Chlorodifluoromethane	1.473	51	112096	9.040	ppbv	98
4) Chloromethane	1.531	50	48418	9.146	ppbv	99
5) Vinyl Chloride	1.580	62	46631	8.743	ppbv	99
6) Bromomethane	1.667	94	22202	8.821	ppbv	98
7) Chloroethane	1.703	64	19203	9.269	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	111653	9.220	ppbv	96
9) Propene	1.483	41	41427	7.708	ppbv	96
10) Heptane	4.975	43	111650	8.087	ppbv	96
11) Trichlorofluoromethane	1.874	101	134331	9.347	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	96469	8.825	ppbv	98
13) Ethanol	1.719	45	3276m	7.361	ppbv	
14) Bromoethene	1.780	108	33118	8.974	ppbv	97
15) Acetone	1.832	43	111294	7.522	ppbv	99
16) 1,3-Butadiene	1.606	39	53299	9.149	ppbv	97
17) tert-Butyl alcohol	2.036	59	135516	9.233	ppbv	100
18) 1,1-Dichloroethene	2.033	96	41224	8.996	ppbv	93
19) Isopropyl Alcohol	1.884	45	64831	7.303	ppbv	99
20) Methylene Chloride	2.059	84	35699	8.462	ppbv	96
21) Allyl Chloride	2.094	41	74468	9.281	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	45331	8.641	ppbv	94
23) Vinyl Acetate	2.460	43	52709	7.673	ppbv #	95
24) 1,1-Dichloroethane	2.405	63	95779	9.020	ppbv	99
25) Ethyl Acetate	2.832	43	238771	8.675	ppbv	100
26) Hexane	2.822	57	87593	8.386	ppbv	95
27) Carbon Disulfide	2.149	76	85318	9.064	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	67965	8.021	ppbv	97
29) Chloroform	2.845	83	145536	9.143	ppbv	97
30) Cyclohexane	3.855	84	74346	8.366	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	92460	8.567	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	144038	8.902	ppbv	99
34) 2-Butanone	2.554	43	139509	8.742	ppbv	99
35) Carbon Tetrachloride	3.761	117	147726	10.490	ppbv	99
36) Benzene	3.654	78	178114	8.680	ppbv	98
37) 1,2-Dichloroethane	3.214	62	121412	9.509	ppbv	100
38) Trichloroethene	4.548	130	70175	8.057	ppbv	98
39) 1,2-Dichloropropane	4.308	63	64154	8.645	ppbv	97
40) 1,4-Dioxane	4.583	88	30262	8.347	ppbv #	96
41) Tetrahydrofuran	3.052	42	74734	8.359	ppbv	98
42) Bromodichloromethane	4.486	83	140832	9.588	ppbv	95
43) Methyl Methacrylate	4.878	69	69545	8.895	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	302332	8.627	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	69601	8.607	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041788.D
Acq On : 18 Dec 2024 10:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 07:49:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	89328m	8.701	ppbv		
47) 1,1,2-Trichloroethane	6.580	97	67717	8.736	ppbv		93
48) Dibromochloromethane	7.386	129	101875	9.625	ppbv		97
49) Bromoform	9.483	173	83649	9.655	ppbv		99
50) 4-Methyl-2-Pentanone	5.752	43	186865	8.600	ppbv		99
51) 2-Hexanone	7.438	43	149217	8.472	ppbv	#	98
52) Tetrachloroethene	8.224	164	59756	7.824	ppbv		93
53) Toluene	6.930	91	195158	8.389	ppbv		99
54) 1,2-Dibromoethane	7.648	107	94138	8.814	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.924	131	87869	9.626	ppbv		99
57) Chlorobenzene	8.920	112	157039	8.912	ppbv		97
58) Ethyl Benzene	9.354	91	281290	9.074	ppbv		97
59) m/p-Xylene	9.548	91	466737m	18.725	ppbv		
60) o-Xylene	9.963	91	232028	9.283	ppbv		100
61) Styrene	9.869	104	103216	9.550	ppbv		99
62) Isopropylbenzene	10.539	105	352903	9.397	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.963	83	144197	9.216	ppbv		99
64) n-propylbenzene	10.989	120	90043	9.483	ppbv		99
65) tert-Butylbenzene	11.532	119	314940	9.295	ppbv		98
66) Benzyl Chloride	11.616	91	22164	7.426	ppbv		100
67) sec-Butylbenzene	11.769	105	442201	9.431	ppbv		100
69) p-Isopropyltoluene	11.927	119	369746	9.569	ppbv		99
70) n-Butylbenzene	12.283	91	373294	9.999	ppbv		99
71) 2-Chlorotoluene	10.901	91	264866	9.240	ppbv		100
72) 4-Ethyltoluene	11.124	105	285469	9.676	ppbv		99
73) 1,3,5-Trimethylbenzene	11.202	105	242783	9.918	ppbv		97
74) 1,2,4-Trimethylbenzene	11.536	105	263301	10.003	ppbv		90
75) 1,3-Dichlorobenzene	11.607	146	154857	9.227	ppbv		99
76) 1,4-Dichlorobenzene	11.671	146	154115	9.296	ppbv		99
77) 1,2-Dichlorobenzene	11.947	146	145375	9.002	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	93437	7.804	ppbv		100
79) Naphthalene	13.513	128	200311	10.921	ppbv		98
80) Naphthalene,2-methyl-	14.458	142	94903	16.728	ppbv		97
81) 1,2,4-Trichlorobenzene	13.442	180	93675	9.346	ppbv		99

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

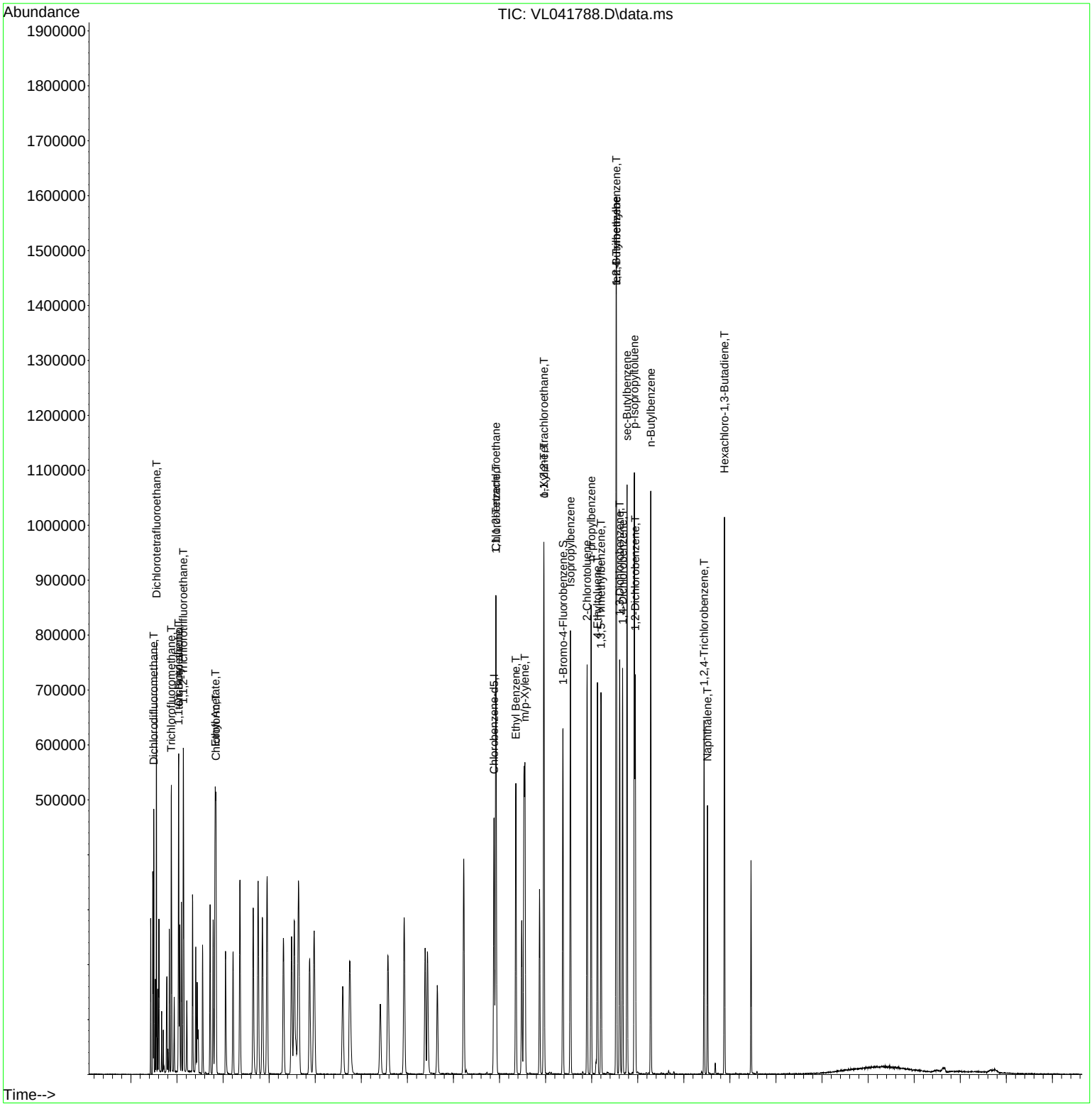
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041788.D
Acq On : 18 Dec 2024 10:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 07:49:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041788.D
Acq On : 18 Dec 2024 10:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Dec 19 07:49:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
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	111	0.00
2	T	Dichlorodifluoromethane	1.779	1.484	16.6	98	0.00
3		Chlorodifluoromethane	1.631	1.474	9.6	104	0.00
4		Chloromethane	0.696	0.637	8.5	112	0.00
5	T	Vinyl Chloride	0.701	0.613	12.6	109	0.00
6	T	Bromomethane	0.331	0.292	11.8	110	0.00
7		Chloroethane	0.272	0.253	7.0	110	0.00
8	T	Dichlorotetrafluoroethane	1.593	1.468	7.8	111	0.00
9	T	Propene	0.707	0.545	22.9	95	0.00
10	T	Heptane	1.816	1.468	19.2	95	0.00
11	T	Trichlorofluoromethane	1.890	1.767	6.5	109	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.437	1.269	11.7	105	0.00
13		Ethanol	0.059	0.043#	27.1	132	0.00
14	T	Bromoethene	0.485	0.436	10.1	102	0.00
15	T	Acetone	1.946	1.464	24.8	111	0.00
16	T	1,3-Butadiene	0.766	0.701	8.5	113	0.00
17		tert-Butyl alcohol	1.930	1.782	7.7	108	0.00
18	T	1,1-Dichloroethene	0.603	0.542	10.1	106	0.00
19	T	Isopropyl Alcohol	1.167	0.853	26.9	110	0.00
20	T	Methylene Chloride	0.555	0.469	15.5	109	0.00
21	T	Allyl Chloride	1.055	0.979	7.2	107	0.00
22	T	trans-1,2-Dichloroethene	0.690	0.596	13.6	103	0.00
23	T	Vinyl Acetate	0.903	0.693	23.3	97	0.00
24	T	1,1-Dichloroethane	1.396	1.260	9.7	107	0.00
25	T	Ethyl Acetate	3.620	3.140	13.3	101	0.00
26	T	Hexane	1.374	1.152	16.2	98	0.00
27	T	Carbon Disulfide	1.238	1.122	9.4	92	0.00
28	T	Methyl tert-Butyl Ether	1.114	0.894	19.7	90	0.00
29	T	Chloroform	2.093	1.914	8.6	108	0.00
30	T	Cyclohexane	1.169	0.978	16.3	99	0.00
31	T	cis-1,2-Dichloroethene	1.419	1.216	14.3	101	0.00
32	T	1,1,1-Trichloroethane	2.128	1.894	11.0	104	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
34	T	2-Butanone	0.805	0.703	12.7	103	0.00
35	T	Carbon Tetrachloride	0.710	0.745	-4.9	106	0.00
36	T	Benzene	1.034	0.898	13.2	99	0.00
37	T	1,2-Dichloroethane	0.644	0.612	5.0	109	0.00
38	T	Trichloroethene	0.439	0.354	19.4	98	0.00
39	T	1,2-Dichloropropane	0.374	0.323	13.6	99	0.00
40	T	1,4-Dioxane	0.183	0.153	16.4	99	0.00
41	T	Tetrahydrofuran	0.451	0.377	16.4	95	0.00
42	T	Bromodichloromethane	0.740	0.710	4.1	99	0.00
43		Methyl Methacrylate	0.394	0.351	10.9	96	0.00
44	T	2,2,4-Trimethylpentane	1.767	1.524	13.8	98	0.00
45	T	t-1,3-Dichloropropene	0.408	0.351	14.0	90	0.00
46	T	cis-1,3-Dichloropropene	0.518	0.450	13.1	91	0.00
47	T	1,1,2-Trichloroethane	0.391	0.341	12.8	100	0.00
48	T	Dibromochloromethane	0.534	0.514	3.7	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041788.D
Acq On : 18 Dec 2024 10:29
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Dec 19 07:49:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
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	0.437	0.422	3.4	91	0.00
50	T	4-Methyl-2-Pentanone	1.095	0.942	14.0	96	0.00
51	T	2-Hexanone	0.888	0.752	15.3	95	0.00
52	T	Tetrachloroethene	0.385	0.301	21.8	95	0.00
53	T	Toluene	1.173	0.984	16.1	95	0.00
54	T	1,2-Dibromoethane	0.538	0.475	11.7	100	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
56		1,1,1,2-Tetrachloroethane	0.530	0.510	3.8	101	0.00
57	T	Chlorobenzene	1.023	0.912	10.9	101	0.00
58	T	Ethyl Benzene	1.800	1.634	9.2	97	0.00
59	T	m/p-Xylene	1.448	1.355	6.4	101	0.00
60	T	o-Xylene	1.452	1.348	7.2	100	0.00
61	T	Styrene	0.628	0.599	4.6	94	0.00
62		Isopropylbenzene	2.181	2.049	6.1	101	0.00
63	T	1,1,2,2-Tetrachloroethane	0.909	0.837	7.9	105	0.00
64		n-propylbenzene	0.551	0.523	5.1	103	0.00
65		tert-Butylbenzene	1.968	1.829	7.1	102	0.00
66	T	Benzyl Chloride	0.173	0.129	25.4	71	0.00
67		sec-Butylbenzene	2.723	2.568	5.7	103	0.00
68	S	1-Bromo-4-Fluorobenzene	0.833	0.875	-5.0	109	0.00
69		p-Isopropyltoluene	2.244	2.147	4.3	102	0.00
70		n-Butylbenzene	2.168	2.168	0.0	104	0.00
71		2-Chlorotoluene	1.665	1.538	7.6	100	0.00
72	T	4-Ethyltoluene	1.713	1.658	3.2	101	0.00
73	T	1,3,5-Trimethylbenzene	1.422	1.410	0.8	101	0.00
74	T	1,2,4-Trimethylbenzene	1.529	1.529	0.0	103	0.00
75	T	1,3-Dichlorobenzene	0.975	0.899	7.8	102	0.00
76	T	1,4-Dichlorobenzene	0.963	0.895	7.1	101	0.00
77	T	1,2-Dichlorobenzene	0.938	0.844	10.0	103	0.00
78	T	Hexachloro-1,3-Butadiene	0.695	0.543	21.9	98	0.00
79	T	Naphthalene	1.065	1.163	-9.2	97	0.00
80	T	Naphthalene,2-methyl-	0.329	0.551	-67.5#	89	0.00
81	T	1,2,4-Trichlorobenzene	0.582	0.544	6.5	92	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\VL121824\
Data File : VL041790.D
Acq On : 18 Dec 2024 12:28
Operator : SY/MD
Sample : VL1218ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABL02

Quant Time: Dec 19 07:52:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

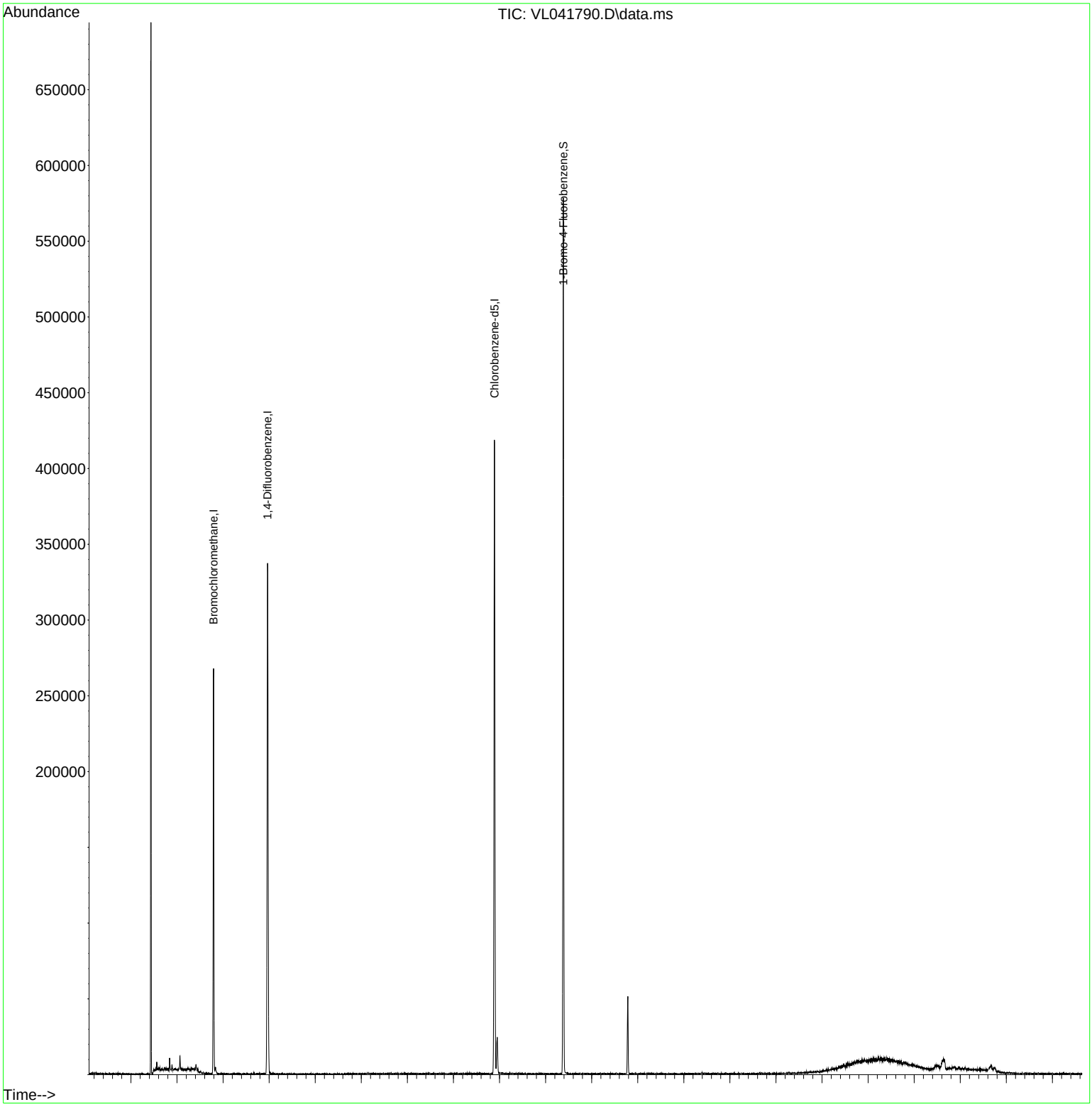
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	70249	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	175356	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	151060	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	127683	10.143	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.400%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041790.D
Acq On : 18 Dec 2024 12:28
Operator : SY/MD
Sample : VL1218ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABL02

Quant Time: Dec 19 07:52:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041795.D
Acq On : 18 Dec 2024 16:06
Operator : SY/MD
Sample : VL1218ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 07:55:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	72600	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.972	114	183255	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	159496	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	143879	10.825	ppbv	0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 108.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	112657	8.721	ppbv	99
3) Chlorodifluoromethane	1.479	51	102210	8.633	ppbv	97
4) Chloromethane	1.538	50	46901	9.279	ppbv	100
5) Vinyl Chloride	1.583	62	44104	8.661	ppbv	98
6) Bromomethane	1.674	94	21119	8.788	ppbv	99
7) Chloroethane	1.709	64	18047	9.123	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	110410	9.549	ppbv	93
9) Propene	1.486	41	35133	6.846	ppbv	98
10) Heptane	5.001	43	106572	8.085	ppbv	100
11) Trichlorofluoromethane	1.884	101	132171	9.632	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	96243	9.222	ppbv	95
13) Ethanol	1.725	45	2865	6.742	ppbv	98
14) Bromoethene	1.787	108	30065	8.533	ppbv	96
15) Acetone	1.842	43	110277	7.807	ppbv	97
16) 1,3-Butadiene	1.612	39	52562	9.450	ppbv	92
17) tert-Butyl alcohol	2.046	59	122872	8.768	ppbv	100
18) 1,1-Dichloroethene	2.039	96	38415	8.780	ppbv	80
19) Isopropyl Alcohol	1.890	45	59665	7.039	ppbv #	37
20) Methylene Chloride	2.068	84	35310	8.766	ppbv	94
21) Allyl Chloride	2.104	41	68525	8.945	ppbv	95
22) trans-1,2-Dichloroethene	2.350	96	42821	8.550	ppbv	98
23) Vinyl Acetate	2.470	43	43463	6.627	ppbv	97
24) 1,1-Dichloroethane	2.418	63	92680	9.142	ppbv	99
25) Ethyl Acetate	2.845	43	223419	8.502	ppbv	99
26) Hexane	2.835	57	81413	8.164	ppbv	93
27) Carbon Disulfide	2.159	76	76433	8.505	ppbv	94
28) Methyl tert-Butyl Ether	2.447	73	64037	7.915	ppbv	99
29) Chloroform	2.858	83	139818	9.200	ppbv	99
30) Cyclohexane	3.871	84	66237	7.806	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	82779	8.033	ppbv	99
32) 1,1,1-Trichloroethane	3.379	97	136055	8.807	ppbv	98
34) 2-Butanone	2.564	43	125687	8.525	ppbv	100
35) Carbon Tetrachloride	3.777	117	141202	10.854	ppbv	97
36) Benzene	3.667	78	164423	8.674	ppbv	98
37) 1,2-Dichloroethane	3.230	62	113600	9.631	ppbv	99
38) Trichloroethene	4.564	130	63280	7.864	ppbv	93
39) 1,2-Dichloropropane	4.331	63	58553	8.541	ppbv	92
40) 1,4-Dioxane	4.599	88	28884	8.624	ppbv #	92
41) Tetrahydrofuran	3.065	42	67017	8.114	ppbv	99
42) Bromodichloromethane	4.509	83	133513	9.839	ppbv	95
43) Methyl Methacrylate	4.897	69	61014	8.448	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	284140	8.777	ppbv	96
45) t-1,3-Dichloropropene	6.438	75	58865	7.879	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041795.D
Acq On : 18 Dec 2024 16:06
Operator : SY/MD
Sample : VL1218ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 07:55:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	74198	7.824	ppbv		89
47) 1,1,2-Trichloroethane	6.603	97	64954	9.071	ppbv		93
48) Dibromochloromethane	7.406	129	96996	9.920	ppbv		99
49) Bromoform	9.500	173	80840	10.100	ppbv		99
50) 4-Methyl-2-Pentanone	5.774	43	175817	8.759	ppbv		99
51) 2-Hexanone	7.457	43	142403	8.752	ppbv	#	96
52) Tetrachloroethene	8.244	164	54531	7.729	ppbv		93
53) Toluene	6.952	91	177625	8.265	ppbv		99
54) 1,2-Dibromoethane	7.671	107	90389	9.161	ppbv		92
56) 1,1,1,2-Tetrachloroethane	8.943	131	86262	10.202	ppbv		100
57) Chlorobenzene	8.937	112	153659	9.415	ppbv		99
58) Ethyl Benzene	9.370	91	267795	9.326	ppbv		98
59) m/p-Xylene	9.564	91	455916m	19.747	ppbv		
60) o-Xylene	9.975	91	229919	9.930	ppbv		100
61) Styrene	9.885	104	95536	9.543	ppbv		100
62) Isopropylbenzene	10.552	105	339599	9.762	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.975	83	142272	9.817	ppbv		100
64) n-propylbenzene	11.002	120	86896	9.880	ppbv		97
65) tert-Butylbenzene	11.542	119	307835	9.808	ppbv		97
66) Benzyl Chloride	11.626	91	21939	7.936	ppbv		97
67) sec-Butylbenzene	11.778	105	441578	10.167	ppbv		99
69) p-Isopropyltoluene	11.937	119	366111	10.229	ppbv		99
70) n-Butylbenzene	12.293	91	366451	10.597	ppbv		98
71) 2-Chlorotoluene	10.914	91	255490	9.622	ppbv		99
72) 4-Ethyltoluene	11.137	105	277025	10.137	ppbv		99
73) 1,3,5-Trimethylbenzene	11.215	105	240648	10.613	ppbv		100
74) 1,2,4-Trimethylbenzene	11.548	105	260378	10.679	ppbv		96
75) 1,3-Dichlorobenzene	11.620	146	152493	9.809	ppbv		98
76) 1,4-Dichlorobenzene	11.684	146	152432	9.926	ppbv		97
77) 1,2-Dichlorobenzene	11.960	146	148412	9.922	ppbv		99
78) Hexachloro-1,3-Butadiene	13.892	225	88582	7.987	ppbv		100
79) Naphthalene	13.523	128	189506	11.154	ppbv		99
80) Naphthalene,2-methyl-	14.468	142	82155	15.634	ppbv		96
81) 1,2,4-Trichlorobenzene	13.452	180	89052	9.592	ppbv		99

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

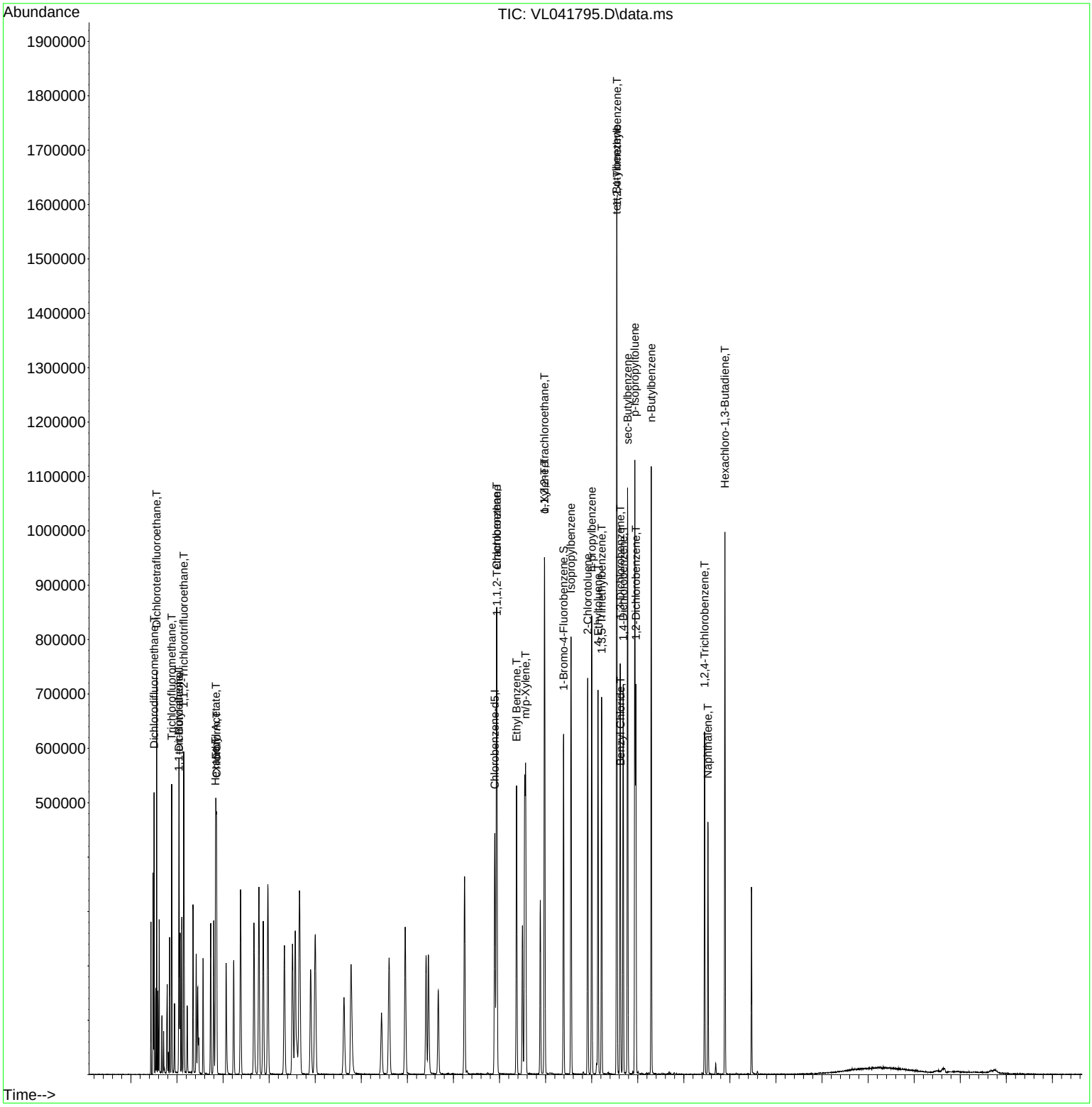
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041795.D
Acq On : 18 Dec 2024 16:06
Operator : SY/MD
Sample : VL1218ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 07:55:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1218ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/19/2024
Supervised By :Mahesh Dadoda 12/19/2024



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041796.D
Acq On : 18 Dec 2024 16:37
Operator : SY/MD
Sample : QC121724 CAN 10158
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC121724 CAN 10158

Quant Time: Dec 19 07:56:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

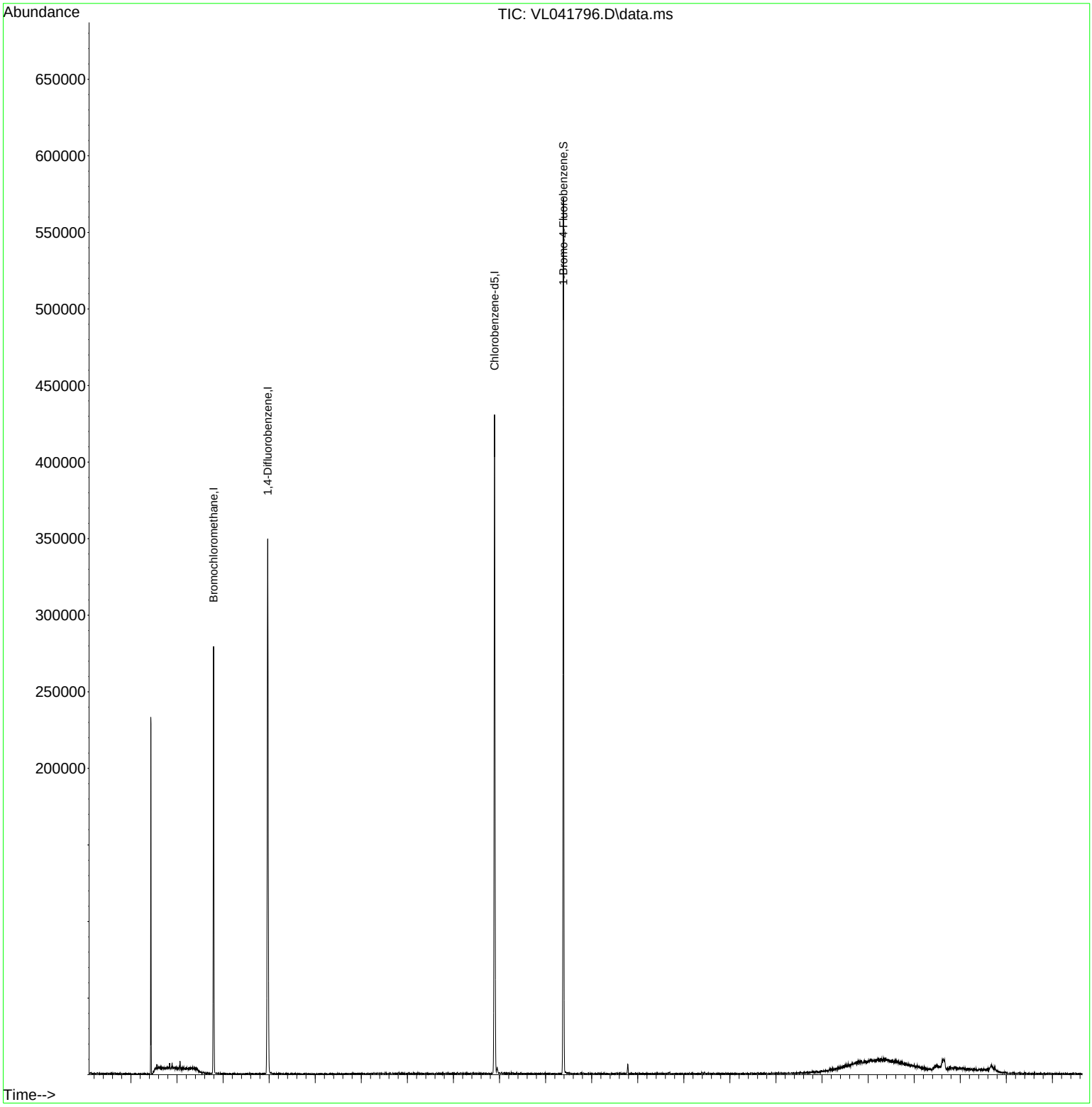
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	73011	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	179409	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	152308	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	125911	9.920	ppbv	0.01
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041796.D
Acq On : 18 Dec 2024 16:37
Operator : SY/MD
Sample : QC121724 CAN 10158
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC121724 CAN 10158

Quant Time: Dec 19 07:56:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration



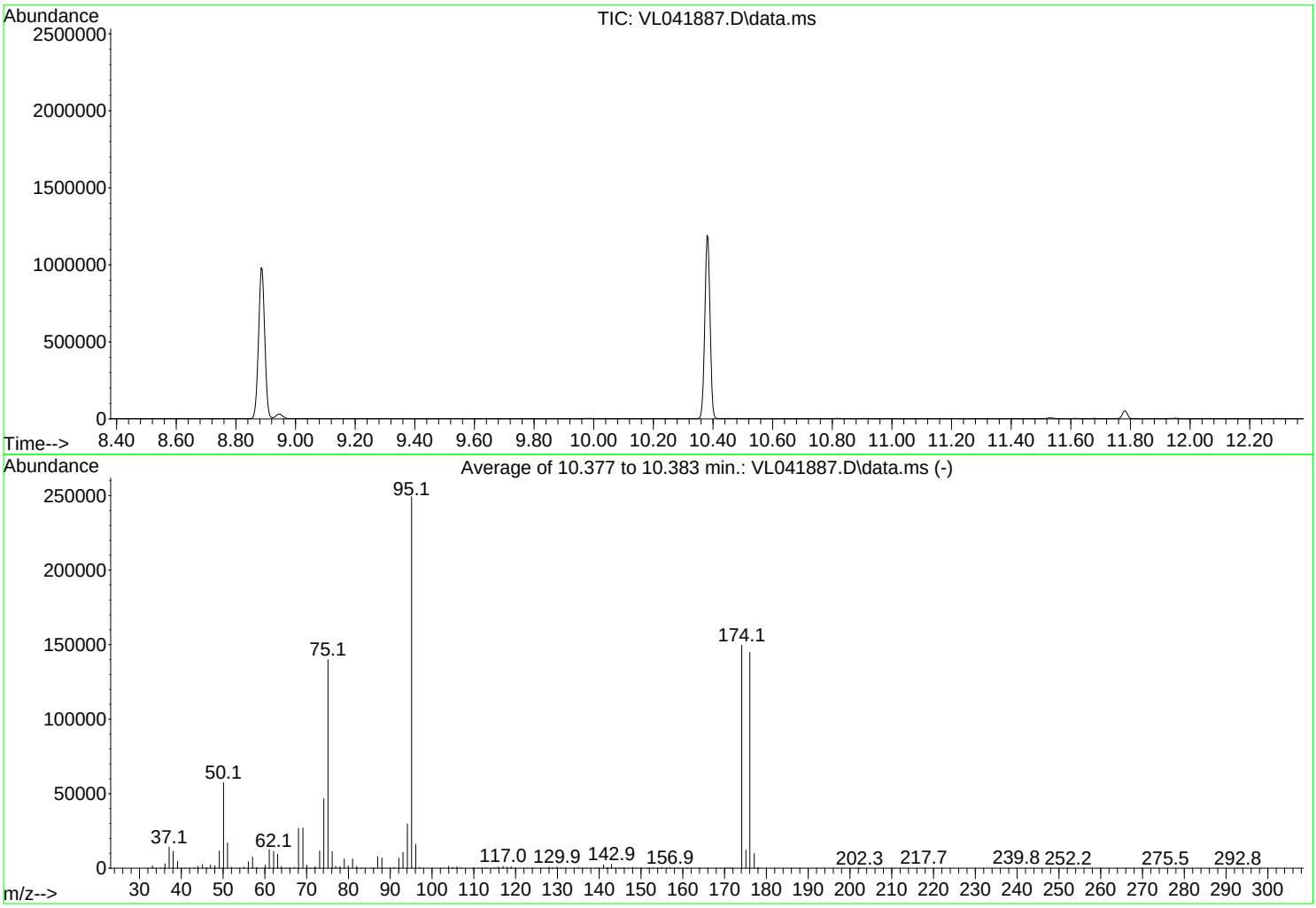
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041887.D
Acq On : 14 Jan 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	57448	PASS
75	95	30	66	56.1	139893	PASS
95	95	100	100	100.0	249280	PASS
96	95	5	9	6.5	16102	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	60.0	149632	PASS
175	174	4	9	8.2	12223	PASS
176	174	93	101	96.8	144917	PASS
177	176	5	9	6.8	9838	PASS

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL041894.D 0.1 =VL041893.D 0.5 =VL041892.D 1 =VL041891.D 2 =VL041890.D 10 =VL041889.D 15 =VL041895.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.450	1.406	1.359	1.300	1.295	1.362	4.93
3)		Chlorodifluoro...			1.448	1.547	1.466	1.330	1.343	1.427	6.34
4)		Chloromethane			0.546	0.499	0.525	0.492	0.499	0.512	4.41
5)	T	Vinyl Chloride	0.504	0.578	0.561	0.531	0.502	0.466	0.491	0.519	7.62
6)	T	Bromomethane			0.253	0.274	0.248	0.229	0.233	0.247	7.30
7)		Chloroethane			0.210	0.205	0.209	0.193	0.194	0.202	4.08
8)	T	Dichlorotetraf...			1.282	1.198	1.225	1.095	1.151	1.190	5.99
9)	T	Propene			0.642	0.577	0.605	0.568	0.548	0.588	6.21
10)	T	Heptane			1.536	1.616	1.635	1.530	1.538	1.571	3.19
11)	T	Trichlorofluor...			1.488	1.417	1.435	1.335	1.410	1.417	3.87
12)	T	1,1,2-Trichlor...			1.098	1.137	1.166	1.057	1.095	1.110	3.78
13)		Ethanol			0.065	0.043	0.051	0.027	0.029	0.043#	36.98
14)	T	Bromoethene			0.420	0.445	0.403	0.371	0.393	0.407	6.93
15)	T	Acetone			1.405	1.301	1.256	0.991	1.051	1.201	14.50
16)	T	1,3-Butadiene			0.552	0.589	0.545	0.494	0.515	0.539	6.74
17)		tert-Butyl alc...			1.527	1.559	1.503	1.399	1.404	1.478	4.91
18)	T	1,1-Dichloroet...			0.520	0.517	0.514	0.458	0.492	0.501	5.18
19)	T	Isopropyl Alcohol			0.864	0.731	0.714	0.621	0.631	0.712	13.77
20)	T	Methylene Chlo...			0.586	0.503	0.478	0.390	0.416	0.475	16.27
21)	T	Allyl Chloride			0.897	0.823	0.847	0.792	0.799	0.832	5.06
22)	T	trans-1,2-Dich...			0.549	0.583	0.595	0.540	0.556	0.565	4.13
23)	T	Vinyl Acetate			0.873	0.475	0.543	0.538	0.549	0.595	26.54
24)	T	1,1-Dichloroet...			1.165	1.099	1.100	1.016	1.083	1.093	4.84
25)	T	Ethyl Acetate			3.219	3.352	3.399	3.094	3.131	3.239	4.13
26)	T	Hexane			1.265	1.249	1.388	1.261	1.242	1.281	4.71
27)	T	Carbon Disulfide			1.210	1.256	1.304	1.258	1.311	1.268	3.22
28)	T	Methyl tert-Bu...			1.043	1.187	1.007	0.774	0.885	0.979	16.08
29)	T	Chloroform			2.101	2.060	2.105	1.911	1.947	2.025	4.45
30)	T	Cyclohexane			1.037	1.193	1.145	1.082	1.098	1.111	5.41
31)	T	cis-1,2-Dichlo...			1.406	1.397	1.390	1.272	1.279	1.349	4.98
32)	T	1,1,1-Trichlor...	1.937	1.841	1.942	2.010	1.956	1.905	1.973	1.938	2.76
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.649	0.646	0.679	0.602	0.605	0.636	5.13
35)	T	Carbon Tetrach...	0.605	0.608	0.584	0.616	0.657	0.649	0.677	0.628	5.32
36)	T	Benzene			0.926	0.949	0.949	0.882	0.879	0.917	3.78
37)	T	1,2-Dichloroet...			0.539	0.516	0.517	0.493	0.510	0.515	3.23
38)	T	Trichloroethene	0.286	0.427	0.381	0.374	0.373	0.354	0.353	0.364	11.62
39)	T	1,2-Dichloropr...			0.349	0.321	0.329	0.305	0.304	0.322	5.81

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL011425AIR.M

40)	T	1,4-Dioxane			0.187	0.162	0.161	0.147	0.155	0.162	9.21
41)	T	Tetrahydrofuran			0.333	0.344	0.358	0.348	0.346	0.346	2.53
42)	T	Bromodichlorom...			0.700	0.659	0.703	0.684	0.707	0.691	2.84
43)		Methyl Methacr...			0.340	0.336	0.349	0.338	0.341	0.341	1.41
44)	T	2,2,4-Trimethy...			1.450	1.501	1.566	1.457	1.444	1.484	3.45
45)	T	t-1,3-Dichloro...			0.300	0.292	0.319	0.338	0.346	0.319	7.38
46)	T	cis-1,3-Dichlo...			0.371	0.391	0.439	0.446	0.447	0.419	8.43
47)	T	1,1,2-Trichlor...			0.340	0.345	0.350	0.333	0.336	0.341	2.06
48)	T	Dibromochlorom...			0.490	0.489	0.541	0.545	0.566	0.526	6.64
49)	T	Bromoform			0.379	0.394	0.439	0.460	0.488	0.432	10.53
50)	T	4-Methyl-2-Pen...			0.892	0.870	0.899	0.833	0.846	0.868	3.29
51)	T	2-Hexanone			0.622	0.640	0.739	0.652	0.683	0.667	6.91
52)	T	Tetrachloroethene	0.320	0.348	0.317	0.329	0.330	0.292	0.291	0.318	6.46
53)	T	Toluene			0.934	0.996	1.048	1.011	1.008	0.999	4.14
54)	T	1,2-Dibromoethane		0.440	0.488	0.468	0.494	0.454	0.470	0.469	4.32
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.502	0.514	0.510	0.481	0.488	0.499	2.86
57)	T	Chlorobenzene			0.986	0.968	0.977	0.848	0.832	0.922	8.18
58)	T	Ethyl Benzene			1.507	1.563	1.653	1.551	1.541	1.563	3.49
59)	T	m/p-Xylene			1.186	1.265	1.355	1.223	1.234	1.253	5.10
60)	T	o-Xylene			1.179	1.241	1.348	1.224	1.224	1.243	5.06
61)	T	Styrene			0.516	0.515	0.576	0.587	0.595	0.558	7.02
62)		Isopropylbenzene			1.927	1.925	2.066	1.854	1.848	1.924	4.56
63)	T	1,1,2,2-Tetrac...		0.756	0.816	0.845	0.858	0.751	0.741	0.795	6.52
64)		n-propylbenzene			0.481	0.495	0.521	0.469	0.464	0.486	4.78
65)		tert-Butylbenzene			1.746	1.782	1.919	1.675	1.645	1.753	6.12
66)	T	Benzyl Chloride			0.102	0.093	0.113	0.115	0.119	0.109	9.71
67)		sec-Butylbenzene			2.389	2.457	2.681	2.299	2.246	2.414	7.04
68)	S	1-Bromo-4-Fluo...	0.783	0.785	0.784	0.792	0.795	0.782	0.792	0.788	0.65
69)		p-Isopropyltol...			1.852	2.013	2.256	1.927	1.892	1.988	8.11
70)		n-Butylbenzene			1.867	2.048	2.206	1.898	1.840	1.972	7.80
71)		2-Chlorotoluene			1.394	1.410	1.537	1.389	1.385	1.423	4.54
72)	T	4-Ethyltoluene			1.442	1.447	1.610	1.466	1.472	1.487	4.67
73)	T	1,3,5-Trimethy...			1.222	1.360	1.448	1.263	1.275	1.313	6.88
74)	T	1,2,4-Trimethy...			1.359	1.456	1.607	1.346	1.344	1.422	7.97
75)	T	1,3-Dichlorobe...			0.881	0.884	0.903	0.776	0.771	0.843	7.61
76)	T	1,4-Dichlorobe...			0.830	0.859	0.889	0.769	0.777	0.825	6.29
77)	T	1,2-Dichlorobe...			0.863	0.902	0.909	0.757	0.745	0.835	9.43
78)	T	Hexachloro-1,3...			0.747	0.742	0.772	0.586	0.582	0.686	13.66
79)	T	Naphthalene		0.978	1.479	1.682	1.941	1.255	1.259	1.432	24.01
80)	T	Naphthalene,2-...			0.572	0.724	1.151	0.463	0.485	0.679	41.70
81)	T	1,2,4-Trichlor...			0.745	0.738	0.819	0.598	0.596	0.699	14.10

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	152325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	449256	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	400269	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	313194	9.934	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	197959	9.541	ppbv	100
3) Chlorodifluoromethane	1.479	51	202651	9.323	ppbv	100
4) Chloromethane	1.538	50	74977	9.608	ppbv	100
5) Vinyl Chloride	1.583	62	71006	8.984	ppbv	100
6) Bromomethane	1.674	94	34817	9.243	ppbv	100
7) Chloroethane	1.709	64	29349	9.544	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	166754	9.196	ppbv	100
9) Propene	1.486	41	86544	9.665	ppbv	100
10) Heptane	5.001	43	233062	9.738	ppbv	100
11) Trichlorofluoromethane	1.884	101	203374	9.423	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	160993	9.517	ppbv	100
13) Ethanol	1.725	45	4155	6.335	ppbv	98
14) Bromoethene	1.787	108	56447	9.114	ppbv	100
15) Acetone	1.842	43	151022	8.255	ppbv	100
16) 1,3-Butadiene	1.612	39	75244	9.163	ppbv	100
17) tert-Butyl alcohol	2.046	59	213109	9.464	ppbv	100
18) 1,1-Dichloroethene	2.039	96	69825	9.158	ppbv	100
19) Isopropyl Alcohol	1.890	45	94532	8.714	ppbv	100
20) Methylene Chloride	2.068	84	59427	8.219	ppbv	100
21) Allyl Chloride	2.101	41	120681	9.526	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	82326	9.568	ppbv	100
23) Vinyl Acetate	2.470	43	81885	10.281	ppbv	100
24) 1,1-Dichloroethane	2.418	63	154838	9.303	ppbv	100
25) Ethyl Acetate	2.845	43	471257	9.552	ppbv	100
26) Hexane	2.835	57	192009	9.841	ppbv	100
27) Carbon Disulfide	2.156	76	191567	9.921	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	117898	7.905	ppbv	100
29) Chloroform	2.858	83	291118	9.438	ppbv	100
30) Cyclohexane	3.868	84	164788	9.737	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	193774	9.432	ppbv	100
32) 1,1,1-Trichloroethane	3.379	97	290126	9.830	ppbv	100
34) 2-Butanone	2.567	43	270263	9.459	ppbv	100
35) Carbon Tetrachloride	3.777	117	291448	10.309	ppbv	100
36) Benzene	3.671	78	396344	9.619	ppbv	100
37) 1,2-Dichloroethane	3.230	62	221352	9.565	ppbv	100
38) Trichloroethene	4.564	130	159253	9.736	ppbv	100
39) 1,2-Dichloropropane	4.331	63	137090	9.484	ppbv	100
40) 1,4-Dioxane	4.606	88	66200	9.075	ppbv #	94
41) Tetrahydrofuran	3.065	42	156141	10.023	ppbv	100
42) Bromodichloromethane	4.509	83	307176	9.900	ppbv	100
43) Methyl Methacrylate	4.897	69	152001	9.930	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	654395	9.819	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	151920	10.603	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.622	75	200330	10.649	ppbv		100
47)	1,1,2-Trichloroethane	6.600	97	149634	9.766	ppbv		100
48)	Dibromochloromethane	7.402	129	245066	10.368	ppbv		100
49)	Bromoform	9.496	173	206751	10.649	ppbv		100
50)	4-Methyl-2-Pentanone	5.778	43	374267	9.615	ppbv		100
51)	2-Hexanone	7.454	43	292941	9.775	ppbv	#	100
52)	Tetrachloroethene	8.241	164	131334	9.193	ppbv		100
53)	Toluene	6.952	91	454085	10.116	ppbv		100
54)	1,2-Dibromoethane	7.668	107	203859	9.679	ppbv		100
56)	1,1,1,2-Tetrachloroethane	8.940	131	192449	9.637	ppbv		99
57)	Chlorobenzene	8.937	112	339570	9.197	ppbv		100
58)	Ethyl Benzene	9.367	91	620719	9.923	ppbv		100
59)	m/p-Xylene	9.564	91	979297m	19.504	ppbv		
60)	o-Xylene	9.979	91	490108	9.848	ppbv		100
61)	Styrene	9.885	104	234901	10.522	ppbv		100
62)	Isopropylbenzene	10.552	105	742261	9.638	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.976	83	300600	9.596	ppbv		100
64)	n-propylbenzene	11.002	120	187706	9.646	ppbv		99
65)	tert-Butylbenzene	11.542	119	670259	9.550	ppbv		100
66)	Benzyl Chloride	11.626	91	46008	10.591	ppbv		100
67)	sec-Butylbenzene	11.778	105	920046	9.521	ppbv		100
69)	p-Isopropyltoluene	11.937	119	771465	9.694	ppbv		100
70)	n-Butylbenzene	12.293	91	759785	9.627	ppbv		100
71)	2-Chlorotoluene	10.914	91	556170	9.763	ppbv		100
72)	4-Ethyltoluene	11.137	105	586667	9.855	ppbv		100
73)	1,3,5-Trimethylbenzene	11.215	105	505443	9.614	ppbv		100
74)	1,2,4-Trimethylbenzene	11.549	105	538665	9.461	ppbv		100
75)	1,3-Dichlorobenzene	11.620	146	310421	9.201	ppbv		100
76)	1,4-Dichlorobenzene	11.684	146	307758	9.324	ppbv		100
77)	1,2-Dichlorobenzene	11.960	146	303196	9.068	ppbv		100
78)	Hexachloro-1,3-Butadiene	13.895	225	234457	8.543	ppbv		100
79)	Naphthalene	13.526	128	502354	8.764	ppbv		100
80)	Naphthalene,2-methyl-	14.471	142	185336	6.819	ppbv		100
81)	1,2,4-Trichlorobenzene	13.452	180	239317	8.553	ppbv		100

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

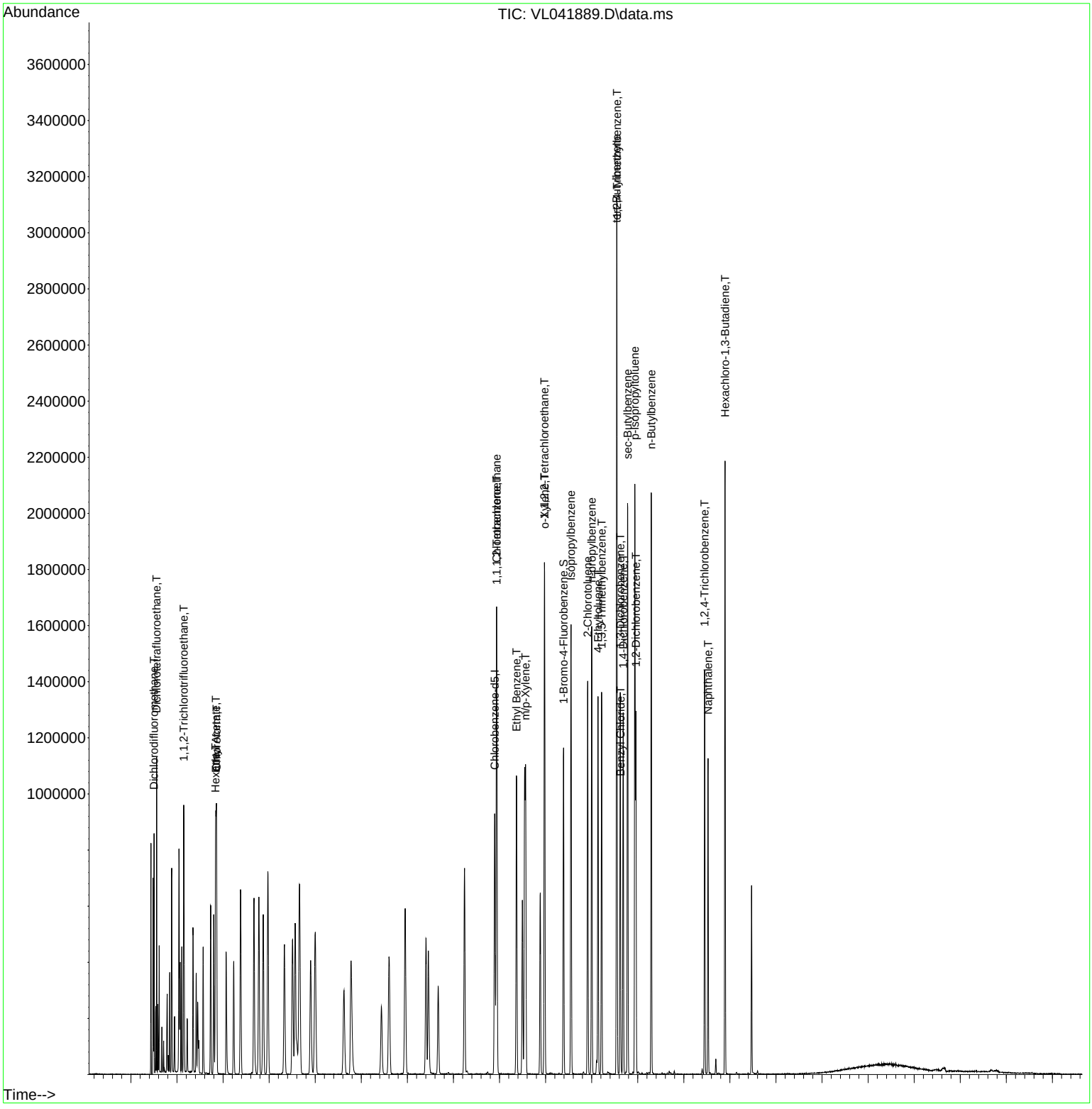
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	150761	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.971	114	452131	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.894	117	394865	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	313784	10.089	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	40991	1.996	ppbv		98
3) Chlorodifluoromethane	1.479	51	44207	2.055	ppbv		99
4) Chloromethane	1.538	50	15833	2.050	ppbv		93
5) Vinyl Chloride	1.583	62	15137	1.935	ppbv		99
6) Bromomethane	1.673	94	7486	2.008	ppbv		91
7) Chloroethane	1.709	64	6303	2.071	ppbv	#	84
8) Dichlorotetrafluoroethane	1.557	85	36941	2.058	ppbv		99
9) Propene	1.486	41	18248	2.059	ppbv		95
10) Heptane	5.001	43	49302	2.081	ppbv		97
11) Trichlorofluoromethane	1.884	101	43266	2.025	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.146	101	35162	2.100	ppbv		97
13) Ethanol	1.725	45	1534	2.363	ppbv		84
14) Bromoethene	1.787	108	12163	1.984	ppbv	#	95
15) Acetone	1.842	43	37867	2.091	ppbv		99
16) 1,3-Butadiene	1.612	39	16446	2.024	ppbv		100
17) tert-Butyl alcohol	2.049	59	45305	2.033	ppbv		99
18) 1,1-Dichloroethene	2.039	96	15508	2.055	ppbv		97
19) Isopropyl Alcohol	1.894	45	21530	2.005	ppbv		94
20) Methylene Chloride	2.068	84	14399	2.012	ppbv		95
21) Allyl Chloride	2.104	41	25533	2.036	ppbv		97
22) trans-1,2-Dichloroethene	2.350	96	17951	2.108	ppbv		83
23) Vinyl Acetate	2.470	43	16358	2.075	ppbv		99
24) 1,1-Dichloroethane	2.418	63	33175	2.014	ppbv		99
25) Ethyl Acetate	2.848	43	102475	2.099	ppbv		99
26) Hexane	2.835	57	41844	2.167	ppbv		99
27) Carbon Disulfide	2.156	76	39306	2.057	ppbv	#	70
28) Methyl tert-Butyl Ether	2.454	73	30355	2.056	ppbv		96
29) Chloroform	2.858	83	63457	2.079	ppbv		94
30) Cyclohexane	3.874	84	34518	2.061	ppbv		97
31) cis-1,2-Dichloroethene	2.729	61	41921	2.062	ppbv		89
32) 1,1,1-Trichloroethane	3.382	97	58965	2.019	ppbv		98
34) 2-Butanone	2.570	43	61381	2.135	ppbv		99
35) Carbon Tetrachloride	3.777	117	59430	2.089	ppbv		95
36) Benzene	3.670	78	85859	2.070	ppbv		96
37) 1,2-Dichloroethane	3.230	62	46786	2.009	ppbv		100
38) Trichloroethene	4.564	130	33773	2.052	ppbv		98
39) 1,2-Dichloropropane	4.334	63	29723	2.043	ppbv		96
40) 1,4-Dioxane	4.619	88	14566m	1.984	ppbv		
41) Tetrahydrofuran	3.072	42	32358	2.064	ppbv		96
42) Bromodichloromethane	4.509	83	63611	2.037	ppbv		99
43) Methyl Methacrylate	4.900	69	31519	2.046	ppbv		99
44) 2,2,4-Trimethylpentane	4.658	57	141602	2.111	ppbv		100
45) t-1,3-Dichloropropene	6.435	75	28818	1.999	ppbv		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	39668	2.095	ppbv		94
47) 1,1,2-Trichloroethane	6.600	97	31694m	2.055	ppbv		
48) Dibromochloromethane	7.406	129	48894	2.055	ppbv		99
49) Bromoform	9.496	173	39710	2.032	ppbv		99
50) 4-Methyl-2-Pentanone	5.784	43	81330	2.076	ppbv		98
51) 2-Hexanone	7.457	43	66831	2.216	ppbv	#	98
52) Tetrachloroethene	8.241	164	29814	2.074	ppbv		94
53) Toluene	6.952	91	94741	2.097	ppbv		98
54) 1,2-Dibromoethane	7.671	107	44636	2.106	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.940	131	40249	2.043	ppbv		93
57) Chlorobenzene	8.933	112	77180	2.119	ppbv		94
58) Ethyl Benzene	9.367	91	130554	2.116	ppbv		98
59) m/p-Xylene	9.561	91	214076m	4.322	ppbv		
60) o-Xylene	9.975	91	106458	2.168	ppbv		99
61) Styrene	9.885	104	45490	2.065	ppbv		99
62) Isopropylbenzene	10.552	105	163135	2.147	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.975	83	67775	2.193	ppbv		99
64) n-propylbenzene	11.001	120	41184	2.145	ppbv		99
65) tert-Butylbenzene	11.542	119	151534	2.189	ppbv		97
66) Benzyl Chloride	11.626	91	8925	2.083	ppbv		97
67) sec-Butylbenzene	11.778	105	211759	2.221	ppbv		99
69) p-Isopropyltoluene	11.937	119	178172	2.270	ppbv		100
70) n-Butylbenzene	12.293	91	174217	2.238	ppbv		99
71) 2-Chlorotoluene	10.914	91	121418	2.161	ppbv		100
72) 4-Ethyltoluene	11.137	105	127115	2.164	ppbv		100
73) 1,3,5-Trimethylbenzene	11.215	105	114342	2.205	ppbv		99
74) 1,2,4-Trimethylbenzene	11.548	105	126939	2.260	ppbv	#	89
75) 1,3-Dichlorobenzene	11.616	146	71332	2.143	ppbv		98
76) 1,4-Dichlorobenzene	11.684	146	70219	2.156	ppbv		99
77) 1,2-Dichlorobenzene	11.960	146	71818	2.177	ppbv		100
78) Hexachloro-1,3-Butadiene	13.892	225	60984	2.253	ppbv		99
79) Naphthalene	13.526	128	153268	2.710	ppbv		98
80) Naphthalene,2-methyl-	14.471	142	90910	3.391	ppbv		99
81) 1,2,4-Trichlorobenzene	13.452	180	64653	2.342	ppbv		98

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

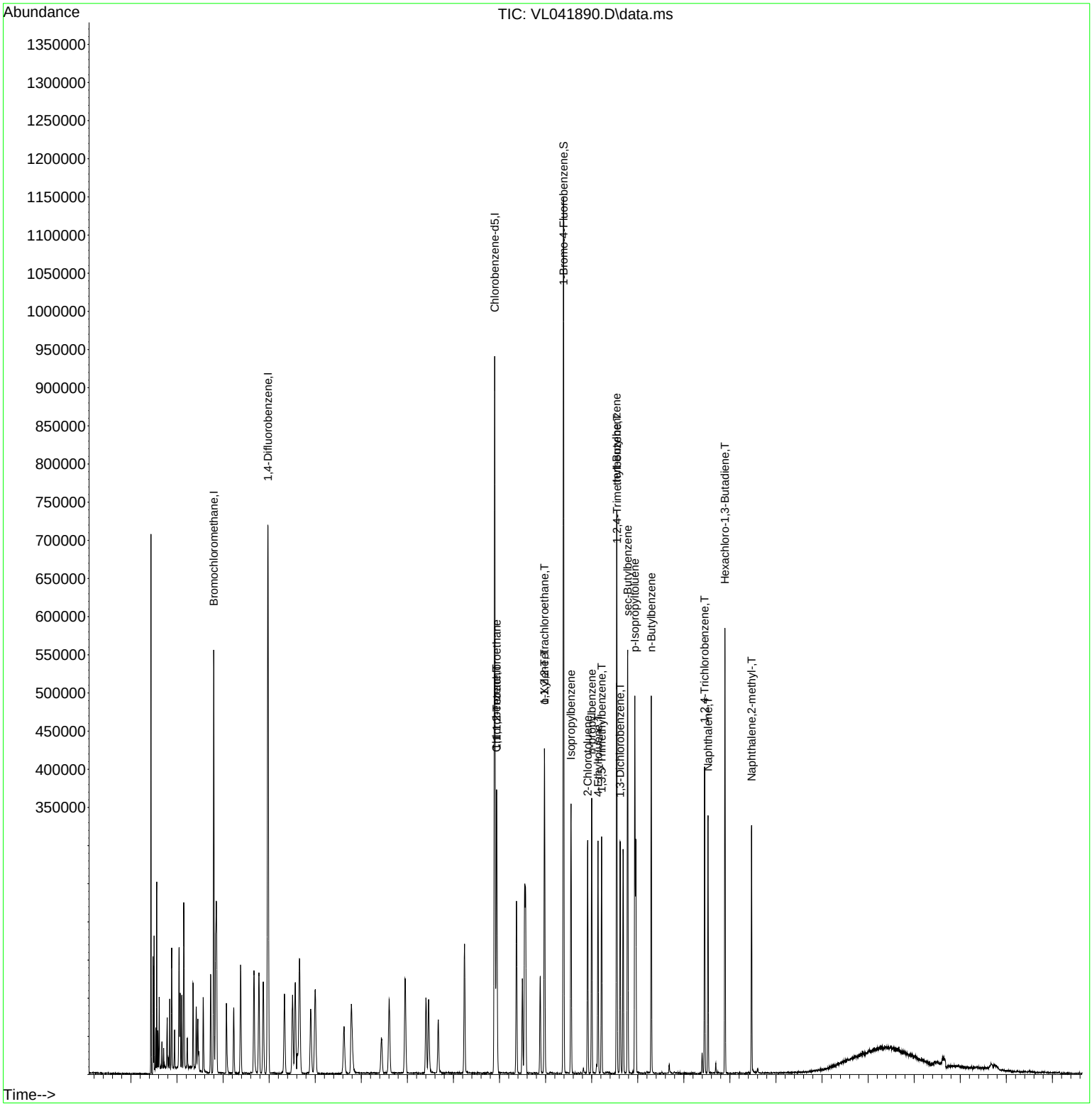
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	151226	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.972	114	453418	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.895	117	393836	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.387	95	312013	10.058	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	21262	1.032	ppbv		95
3) Chlorodifluoromethane	1.479	51	23396	1.084	ppbv		100
4) Chloromethane	1.534	50	7546	0.974	ppbv		94
5) Vinyl Chloride	1.583	62	8031	1.023	ppbv		97
6) Bromomethane	1.674	94	4139	1.107	ppbv	#	81
7) Chloroethane	1.709	64	3093	1.013	ppbv		92
8) Dichlorotetrafluoroethane	1.557	85	18122	1.007	ppbv		100
9) Propene	1.486	41	8719	0.981	ppbv		93
10) Heptane	5.001	43	24438	1.029	ppbv		96
11) Trichlorofluoromethane	1.884	101	21425	1.000	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.143	101	17187	1.023	ppbv		95
13) Ethanol	1.725	45	650	0.998	ppbv	#	29
14) Bromoethene	1.787	108	6736	1.096	ppbv	#	88
15) Acetone	1.842	43	19681	1.084	ppbv		95
16) 1,3-Butadiene	1.612	39	8901	1.092	ppbv		98
17) tert-Butyl alcohol	2.049	59	23571	1.054	ppbv		95
18) 1,1-Dichloroethene	2.039	96	7819m	1.033	ppbv		
19) Isopropyl Alcohol	1.894	45	11054	1.026	ppbv	#	32
20) Methylene Chloride	2.065	84	7608	1.060	ppbv	#	89
21) Allyl Chloride	2.101	41	12451	0.990	ppbv		98
22) trans-1,2-Dichloroethene	2.347	96	8819	1.032	ppbv		96
23) Vinyl Acetate	2.470	43	7181	0.908	ppbv	#	93
24) 1,1-Dichloroethane	2.415	63	16623	1.006	ppbv		97
25) Ethyl Acetate	2.845	43	50690	1.035	ppbv		98
26) Hexane	2.836	57	18893	0.975	ppbv		86
27) Carbon Disulfide	2.156	76	18993	0.991	ppbv	#	23
28) Methyl tert-Butyl Ether	2.450	73	17955	1.213	ppbv		98
29) Chloroform	2.858	83	31155	1.017	ppbv		97
30) Cyclohexane	3.871	84	18048	1.074	ppbv		96
31) cis-1,2-Dichloroethene	2.729	61	21124	1.036	ppbv		99
32) 1,1,1-Trichloroethane	3.383	97	30396	1.037	ppbv		98
34) 2-Butanone	2.570	43	29280	1.015	ppbv		99
35) Carbon Tetrachloride	3.774	117	27946	0.979	ppbv		96
36) Benzene	3.671	78	43023	1.035	ppbv		93
37) 1,2-Dichloroethane	3.230	62	23402	1.002	ppbv		98
38) Trichloroethene	4.564	130	16954m	1.027	ppbv		
39) 1,2-Dichloropropane	4.331	63	14570	0.999	ppbv		98
40) 1,4-Dioxane	4.613	88	7345m	0.998	ppbv		
41) Tetrahydrofuran	3.075	42	15580m	0.991	ppbv		
42) Bromodichloromethane	4.509	83	29893m	0.955	ppbv		
43) Methyl Methacrylate	4.901	69	15222	0.985	ppbv		95
44) 2,2,4-Trimethylpentane	4.661	57	68050	1.012	ppbv		98
45) t-1,3-Dichloropropene	6.438	75	13220	0.914	ppbv		92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	17749	0.935	ppbv		97
47) 1,1,2-Trichloroethane	6.603	97	15658m	1.013	ppbv		
48) Dibromochloromethane	7.402	129	22169	0.929	ppbv		100
49) Bromoform	9.497	173	17876	0.912	ppbv		100
50) 4-Methyl-2-Pentanone	5.787	43	39436m	1.004	ppbv		
51) 2-Hexanone	7.464	43	28999	0.959	ppbv	#	95
52) Tetrachloroethene	8.244	164	14903	1.034	ppbv	#	80
53) Toluene	6.956	91	45140m	0.996	ppbv		
54) 1,2-Dibromoethane	7.668	107	21202	0.997	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.937	131	20255	1.031	ppbv		94
57) Chlorobenzene	8.933	112	38141	1.050	ppbv		98
58) Ethyl Benzene	9.367	91	61537	1.000	ppbv		99
59) m/p-Xylene	9.561	91	99618m	2.016	ppbv		
60) o-Xylene	9.972	91	48888	0.998	ppbv		98
61) Styrene	9.882	104	20285	0.923	ppbv		99
62) Isopropylbenzene	10.549	105	75801	1.000	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.972	83	33289	1.080	ppbv		97
64) n-propylbenzene	11.002	120	19511	1.019	ppbv		99
65) tert-Butylbenzene	11.539	119	70183	1.016	ppbv		98
66) Benzyl Chloride	11.626	91	3681m	0.861	ppbv		
67) sec-Butylbenzene	11.778	105	96749	1.018	ppbv		97
69) p-Isopropyltoluene	11.937	119	79283	1.013	ppbv		98
70) n-Butylbenzene	12.290	91	80664	1.039	ppbv		99
71) 2-Chlorotoluene	10.911	91	55540	0.991	ppbv		99
72) 4-Ethyltoluene	11.134	105	56973	0.973	ppbv		97
73) 1,3,5-Trimethylbenzene	11.215	105	53550	1.035	ppbv		97
74) 1,2,4-Trimethylbenzene	11.545	105	57352	1.024	ppbv		96
75) 1,3-Dichlorobenzene	11.617	146	34810	1.049	ppbv		99
76) 1,4-Dichlorobenzene	11.681	146	33822	1.041	ppbv		97
77) 1,2-Dichlorobenzene	11.960	146	35516	1.080	ppbv		98
78) Hexachloro-1,3-Butadiene	13.892	225	29210	1.082	ppbv		99
79) Naphthalene	13.523	128	66232	1.174	ppbv		98
80) Naphthalene,2-methyl-	14.468	142	28506	1.066	ppbv		98
81) 1,2,4-Trichlorobenzene	13.452	180	29053	1.055	ppbv		99

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

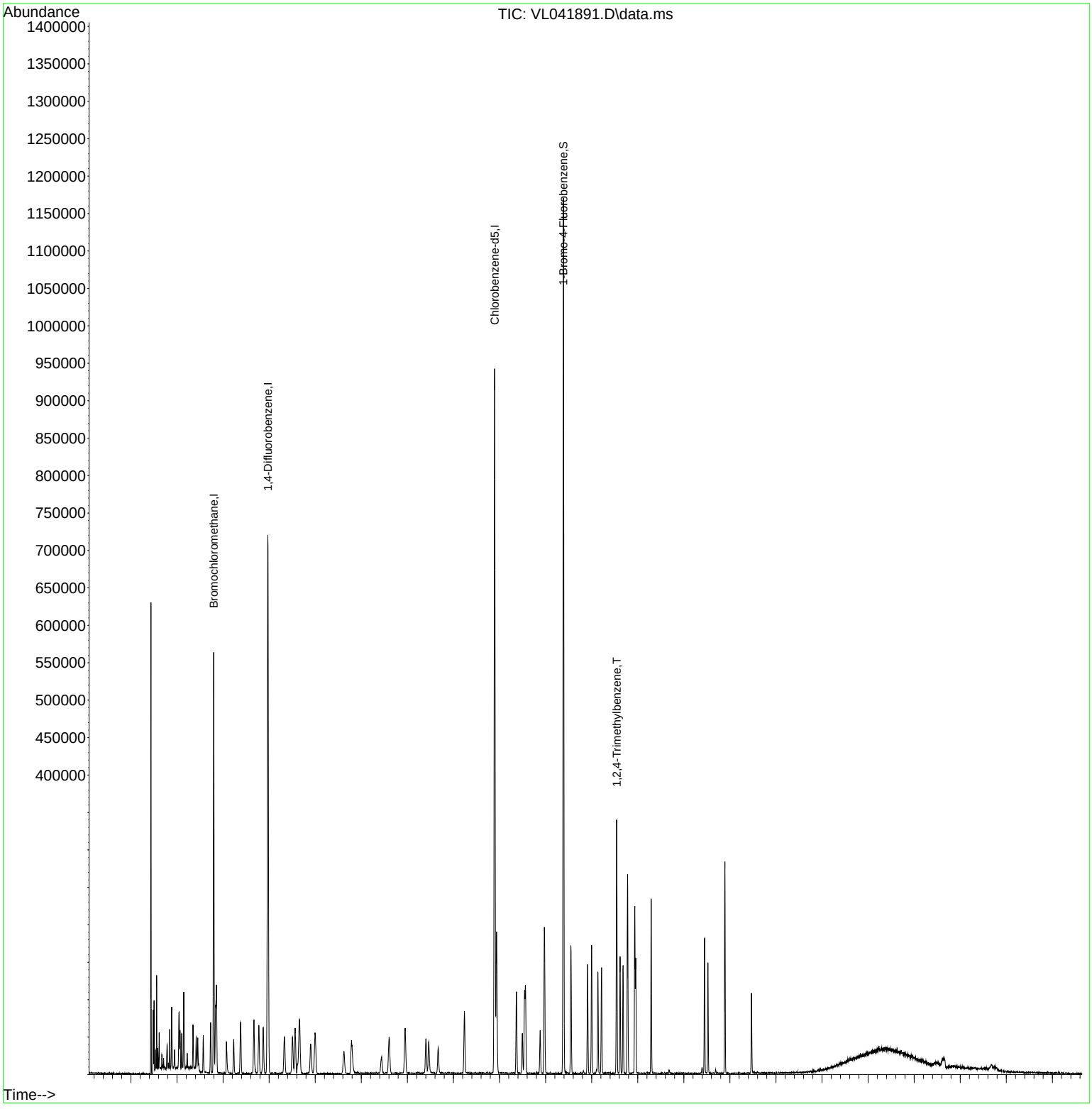
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	146186	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	430874	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.891	117	379402	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	297462	9.954	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10599	0.532	ppbv		99
3) Chlorodifluoromethane	1.476	51	10582	0.507	ppbv		98
4) Chloromethane	1.534	50	3990	0.533	ppbv		98
5) Vinyl Chloride	1.580	62	4097	0.540	ppbv		94
6) Bromomethane	1.670	94	1852	0.512	ppbv	#	78
7) Chloroethane	1.706	64	1532	0.519	ppbv	#	77
8) Dichlorotetrafluoroethane	1.557	85	9372	0.539	ppbv		95
9) Propene	1.486	41	4690	0.546	ppbv		85
10) Heptane	4.988	43	11230	0.489	ppbv		95
11) Trichlorofluoromethane	1.881	101	10873	0.525	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.143	101	8027	0.494	ppbv		90
13) Ethanol	1.725	45	478m	0.759	ppbv		
14) Bromoethene	1.784	108	3071	0.517	ppbv	#	94
15) Acetone	1.839	43	10273	0.585	ppbv		99
16) 1,3-Butadiene	1.612	39	4038	0.512	ppbv		99
17) tert-Butyl alcohol	2.046	59	11158	0.516	ppbv	#	94
18) 1,1-Dichloroethene	2.036	96	3803	0.520	ppbv		95
19) Isopropyl Alcohol	1.891	45	6317	0.607	ppbv	#	32
20) Methylene Chloride	2.065	84	4286	0.618	ppbv		93
21) Allyl Chloride	2.101	41	6553	0.539	ppbv		96
22) trans-1,2-Dichloroethene	2.347	96	4015	0.486	ppbv		89
23) Vinyl Acetate	2.467	43	6381m	0.835	ppbv		
24) 1,1-Dichloroethane	2.415	63	8512	0.533	ppbv		97
25) Ethyl Acetate	2.845	43	23529	0.497	ppbv		97
26) Hexane	2.829	57	9246m	0.494	ppbv		
27) Carbon Disulfide	2.153	76	8847	0.477	ppbv	#	1
28) Methyl tert-Butyl Ether	2.447	73	7621	0.532	ppbv		97
29) Chloroform	2.855	83	15360	0.519	ppbv		92
30) Cyclohexane	3.871	84	7579	0.467	ppbv		92
31) cis-1,2-Dichloroethene	2.726	61	10275	0.521	ppbv	#	89
32) 1,1,1-Trichloroethane	3.379	97	14198	0.501	ppbv		98
34) 2-Butanone	2.567	43	13981	0.510	ppbv		94
35) Carbon Tetrachloride	3.774	117	12590	0.464	ppbv		89
36) Benzene	3.667	78	19954	0.505	ppbv		95
37) 1,2-Dichloroethane	3.227	62	11613	0.523	ppbv		97
38) Trichloroethene	4.561	130	8199	0.523	ppbv	#	89
39) 1,2-Dichloropropane	4.324	63	7526m	0.543	ppbv		
40) 1,4-Dioxane	4.616	88	4031m	0.576	ppbv		
41) Tetrahydrofuran	3.072	42	7183	0.481	ppbv		94
42) Bromodichloromethane	4.499	83	15081m	0.507	ppbv		
43) Methyl Methacrylate	4.891	69	7332m	0.499	ppbv		
44) 2,2,4-Trimethylpentane	4.645	57	31243	0.489	ppbv		95
45) t-1,3-Dichloropropene	6.428	75	6465m	0.470	ppbv		

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	7986m	0.443	ppbv		
47) 1,1,2-Trichloroethane	6.597	97	7324	0.498	ppbv	#	84
48) Dibromochloromethane	7.393	129	10548m	0.465	ppbv		
49) Bromoform	9.493	173	8162	0.438	ppbv		97
50) 4-Methyl-2-Pentanone	5.794	43	19221m	0.515	ppbv		
51) 2-Hexanone	7.454	43	13390	0.466	ppbv	#	97
52) Tetrachloroethene	8.238	164	6821m	0.498	ppbv		
53) Toluene	6.946	91	20118	0.467	ppbv		96
54) 1,2-Dibromoethane	7.665	107	10511	0.520	ppbv		89
56) 1,1,1,2-Tetrachloroethane	8.930	131	9524	0.503	ppbv	#	1
57) Chlorobenzene	8.930	112	18701	0.534	ppbv	#	90
58) Ethyl Benzene	9.364	91	28584	0.482	ppbv	#	88
59) m/p-Xylene	9.558	91	45003m	0.946	ppbv		
60) o-Xylene	9.972	91	22370	0.474	ppbv		97
61) Styrene	9.879	104	9788	0.463	ppbv		99
62) Isopropylbenzene	10.545	105	36561	0.501	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.969	83	15485	0.521	ppbv		98
64) n-propylbenzene	10.995	120	9128	0.495	ppbv		93
65) tert-Butylbenzene	11.536	119	33122	0.498	ppbv		98
66) Benzyl Chloride	11.620	91	1935	0.470	ppbv		99
67) sec-Butylbenzene	11.775	105	45326	0.495	ppbv		98
69) p-Isopropyltoluene	11.931	119	35136	0.466	ppbv		98
70) n-Butylbenzene	12.287	91	35409	0.473	ppbv		96
71) 2-Chlorotoluene	10.908	91	26436	0.490	ppbv		99
72) 4-Ethyltoluene	11.131	105	27363	0.485	ppbv		97
73) 1,3,5-Trimethylbenzene	11.209	105	23183	0.465	ppbv		93
74) 1,2,4-Trimethylbenzene	11.545	105	25777	0.478	ppbv		89
75) 1,3-Dichlorobenzene	11.610	146	16708	0.522	ppbv		100
76) 1,4-Dichlorobenzene	11.678	146	15738	0.503	ppbv		96
77) 1,2-Dichlorobenzene	11.953	146	16364	0.516	ppbv		93
78) Hexachloro-1,3-Butadiene	13.892	225	14162	0.544	ppbv		96
79) Naphthalene	13.520	128	28052	0.516	ppbv		98
80) Naphthalene,2-methyl-	14.468	142	10859	0.422	ppbv		97
81) 1,2,4-Trichlorobenzene	13.445	180	14136	0.533	ppbv		95

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

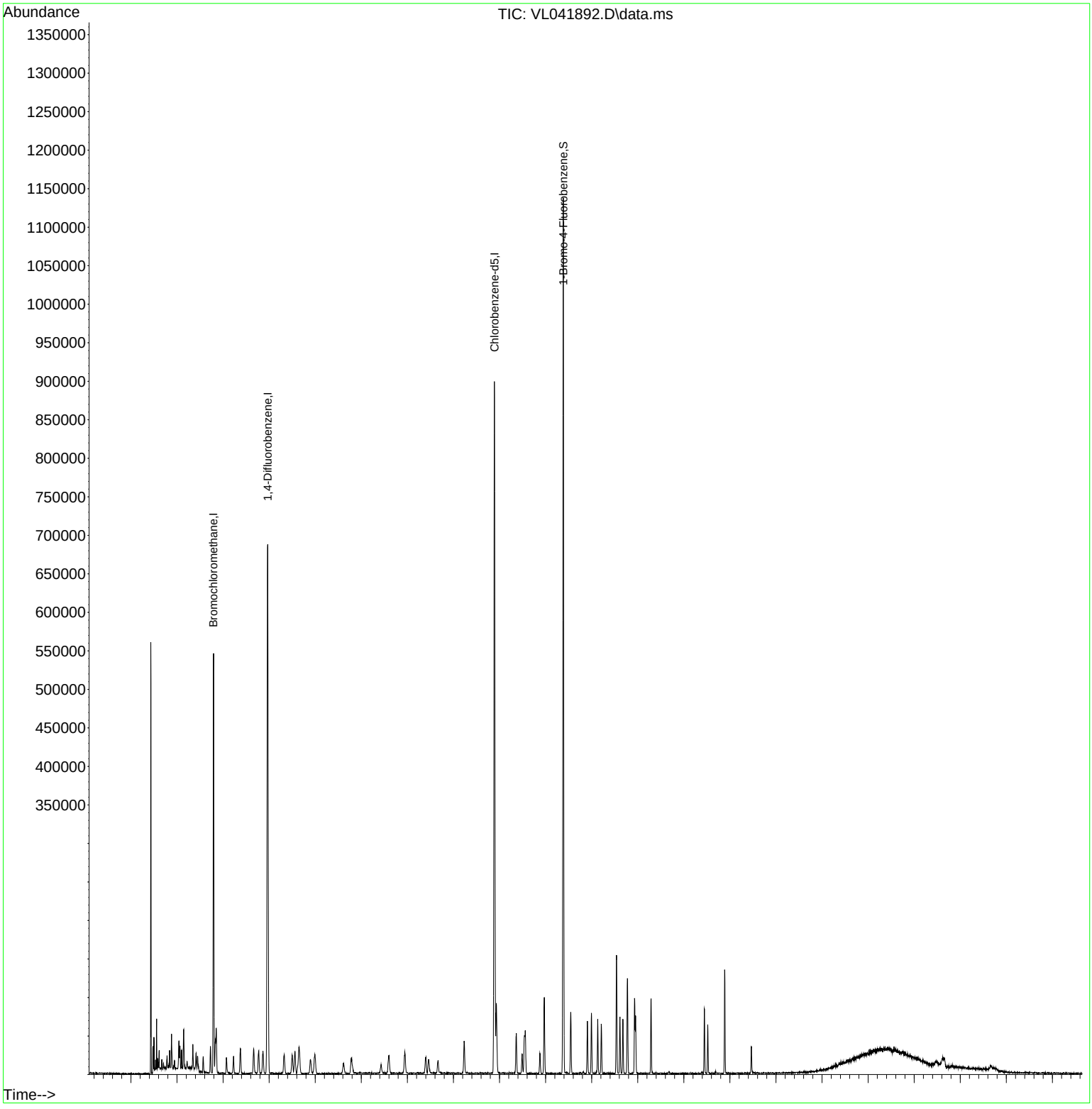
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	143362	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	425675	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.891	117	372545	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.387	95	292283	9.961	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%				
Target Compounds							Qvalue
5) Vinyl Chloride	1.583	62	828	0.111	ppbv		96
32) 1,1,1-Trichloroethane	3.383	97	2640m	0.095	ppbv		
35) Carbon Tetrachloride	3.768	117	2587m	0.097	ppbv		
38) Trichloroethene	4.557	130	1816m	0.117	ppbv		
52) Tetrachloroethene	8.234	164	1480m	0.109	ppbv		
54) 1,2-Dibromoethane	7.668	107	1872m	0.094	ppbv		
63) 1,1,2,2-Tetrachloroethane	9.976	83	2816	0.097	ppbv		95
79) Naphthalene	13.520	128	3643	0.068	ppbv	#	96

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

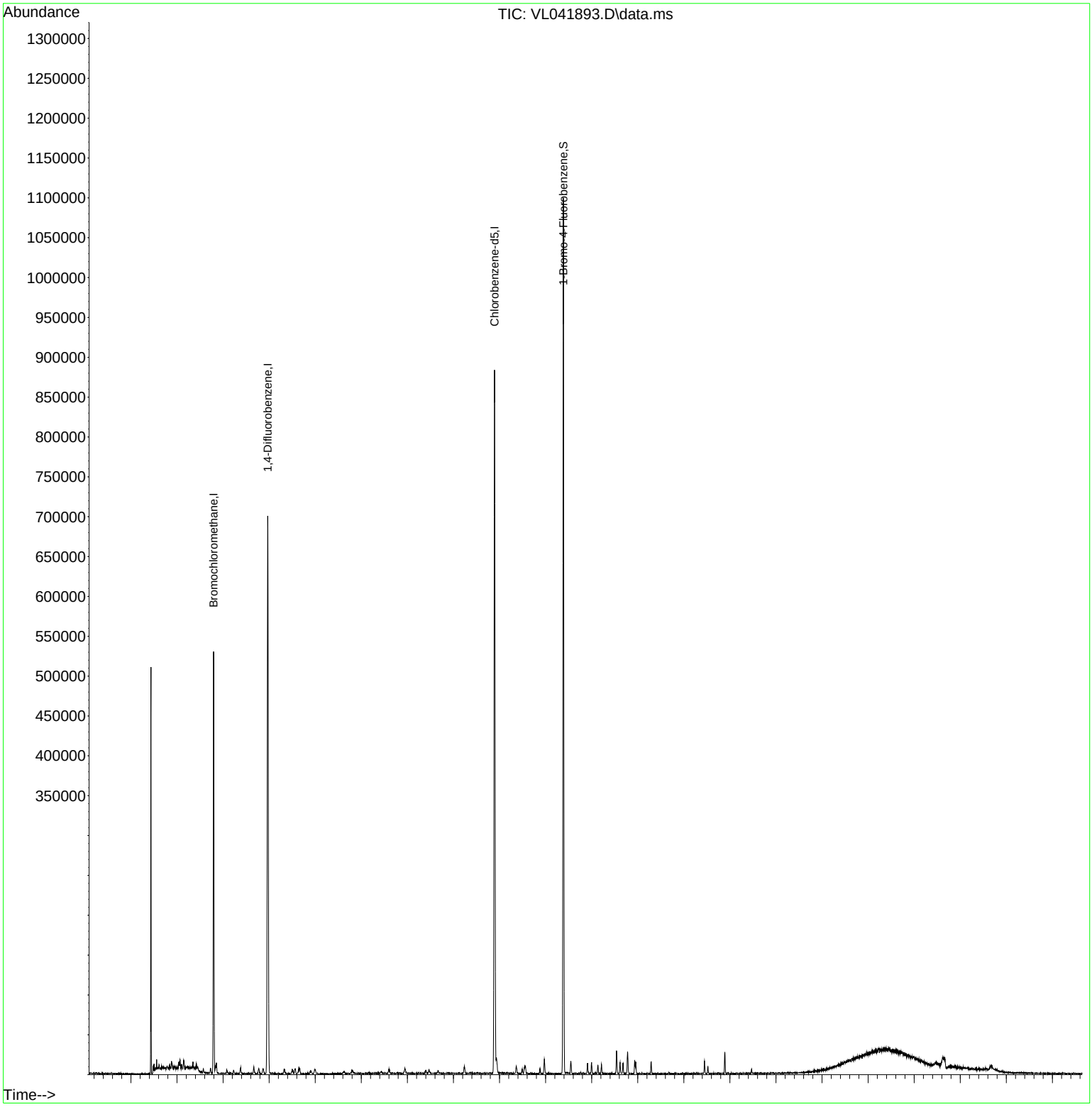
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	141659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	424686	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	367402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	287792	9.945	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.500%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.586	62	214m	0.029	ppbv	
32) 1,1,1-Trichloroethane	3.379	97	823	0.030	ppbv	85
35) Carbon Tetrachloride	3.774	117	771	0.029	ppbv #	56
38) Trichloroethene	4.557	130	364m	0.024	ppbv	
52) Tetrachloroethene	8.250	164	408m	0.030	ppbv	

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

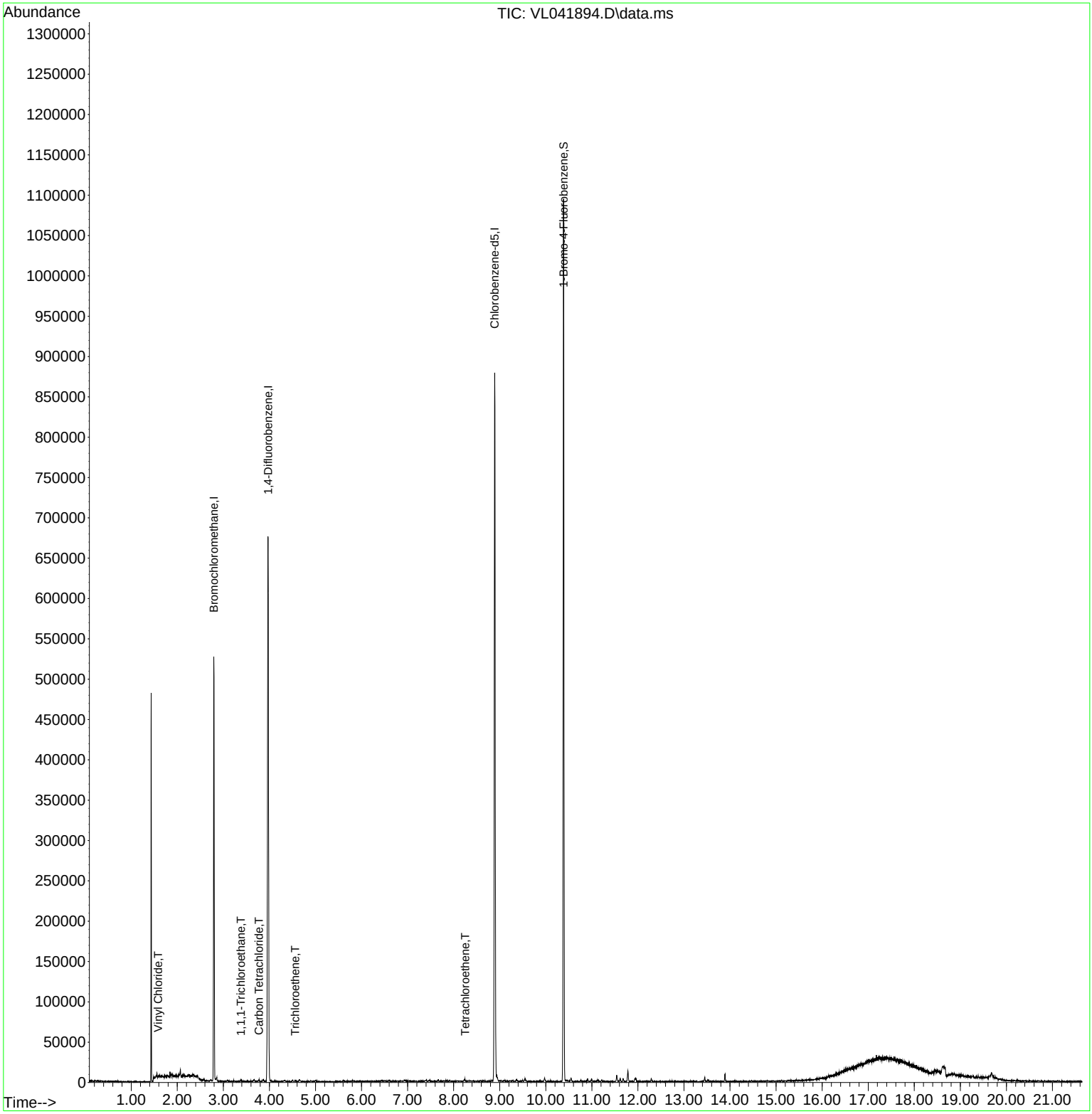
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	141652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	419859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	383799	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	304042	10.058	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	275248	14.266	ppbv	100
3) Chlorodifluoromethane	1.479	51	285437	14.121	ppbv	98
4) Chloromethane	1.534	50	106071	14.617	ppbv	98
5) Vinyl Chloride	1.583	62	104404	14.204	ppbv	98
6) Bromomethane	1.670	94	49415	14.106	ppbv	91
7) Chloroethane	1.709	64	41130	14.383	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	244666	14.510	ppbv	100
9) Propene	1.486	41	116343	13.972	ppbv	99
10) Heptane	4.998	43	326897	14.688	ppbv	98
11) Trichlorofluoromethane	1.881	101	299656	14.930	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	232607	14.787	ppbv	100
13) Ethanol	1.725	45	6109	10.016	ppbv	83
14) Bromoethene	1.784	108	83586	14.513	ppbv	98
15) Acetone	1.839	43	223353	13.128	ppbv	99
16) 1,3-Butadiene	1.612	39	109420	14.329	ppbv	99
17) tert-Butyl alcohol	2.046	59	298424	14.252	ppbv	99
18) 1,1-Dichloroethene	2.039	96	104645	14.759	ppbv	92
19) Isopropyl Alcohol	1.890	45	134050	13.288	ppbv	98
20) Methylene Chloride	2.065	84	88425	13.151	ppbv	98
21) Allyl Chloride	2.101	41	169875	14.419	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	118169	14.768	ppbv	97
23) Vinyl Acetate	2.470	43	116632	15.747	ppbv	98
24) 1,1-Dichloroethane	2.415	63	230015	14.862	ppbv	99
25) Ethyl Acetate	2.842	43	665170	14.499	ppbv	100
26) Hexane	2.836	57	263948	14.547	ppbv	97
27) Carbon Disulfide	2.156	76	278476	15.509	ppbv	99
28) Methyl tert-Butyl Ether	2.447	73	187986	13.555	ppbv	98
29) Chloroform	2.858	83	413733	14.424	ppbv	98
30) Cyclohexane	3.868	84	233398	14.830	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	271739	14.223	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	419117	15.271	ppbv	99
34) 2-Butanone	2.564	43	380813	14.262	ppbv	99
35) Carbon Tetrachloride	3.774	117	426619	16.146	ppbv	97
36) Benzene	3.667	78	553665	14.378	ppbv	100
37) 1,2-Dichloroethane	3.227	62	321362	14.859	ppbv	99
38) Trichloroethene	4.564	130	222328	14.543	ppbv	98
39) 1,2-Dichloropropane	4.328	63	191532	14.179	ppbv	98
40) 1,4-Dioxane	4.596	88	97521	14.305	ppbv #	93
41) Tetrahydrofuran	3.062	42	217707	14.953	ppbv	99
42) Bromodichloromethane	4.502	83	445130	15.351	ppbv	95
43) Methyl Methacrylate	4.894	69	214564	14.999	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	909437	14.601	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	218001	16.281	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	281492	16.011	ppbv		98
47) 1,1,2-Trichloroethane	6.597	97	211658	14.782	ppbv		95
48) Dibromochloromethane	7.402	129	356392	16.134	ppbv		100
49) Bromoform	9.493	173	307617	16.953	ppbv		99
50) 4-Methyl-2-Pentanone	5.774	43	533053	14.653	ppbv		99
51) 2-Hexanone	7.451	43	430297	15.363	ppbv	#	97
52) Tetrachloroethene	8.237	164	183208	13.721	ppbv		96
53) Toluene	6.949	91	634515	15.126	ppbv		99
54) 1,2-Dibromoethane	7.665	107	295967	15.036	ppbv		93
56) 1,1,1,2-Tetrachloroethane	8.937	131	280809	14.665	ppbv		98
57) Chlorobenzene	8.933	112	479092	13.533	ppbv		99
58) Ethyl Benzene	9.367	91	887072	14.789	ppbv		100
59) m/p-Xylene	9.565	91	1420585m	29.506	ppbv		
60) o-Xylene	9.976	91	704577	14.765	ppbv		100
61) Styrene	9.882	104	342490	15.999	ppbv		99
62) Isopropylbenzene	10.548	105	1063809	14.406	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.976	83	426347	14.194	ppbv		100
64) n-propylbenzene	10.998	120	266972	14.308	ppbv		100
65) tert-Butylbenzene	11.542	119	947297	14.077	ppbv		98
66) Benzyl Chloride	11.626	91	68623	16.475	ppbv		98
67) sec-Butylbenzene	11.778	105	1292858	13.952	ppbv		100
69) p-Isopropyltoluene	11.937	119	1089109	14.273	ppbv		99
70) n-Butylbenzene	12.290	91	1059002	13.994	ppbv		99
71) 2-Chlorotoluene	10.911	91	797555	14.601	ppbv		100
72) 4-Ethyltoluene	11.134	105	847451	14.846	ppbv		99
73) 1,3,5-Trimethylbenzene	11.215	105	733759	14.556	ppbv		96
74) 1,2,4-Trimethylbenzene	11.549	105	773569	14.170	ppbv		92
75) 1,3-Dichlorobenzene	11.620	146	443828	13.720	ppbv		99
76) 1,4-Dichlorobenzene	11.681	146	447164	14.129	ppbv		99
77) 1,2-Dichlorobenzene	11.956	146	429118	13.385	ppbv		99
78) Hexachloro-1,3-Butadiene	13.892	225	335016	12.731	ppbv		100
79) Naphthalene	13.523	128	724573	13.183	ppbv		99
80) Naphthalene,2-methyl-	14.468	142	278955	10.704	ppbv		99
81) 1,2,4-Trichlorobenzene	13.452	180	342977	12.784	ppbv		98

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

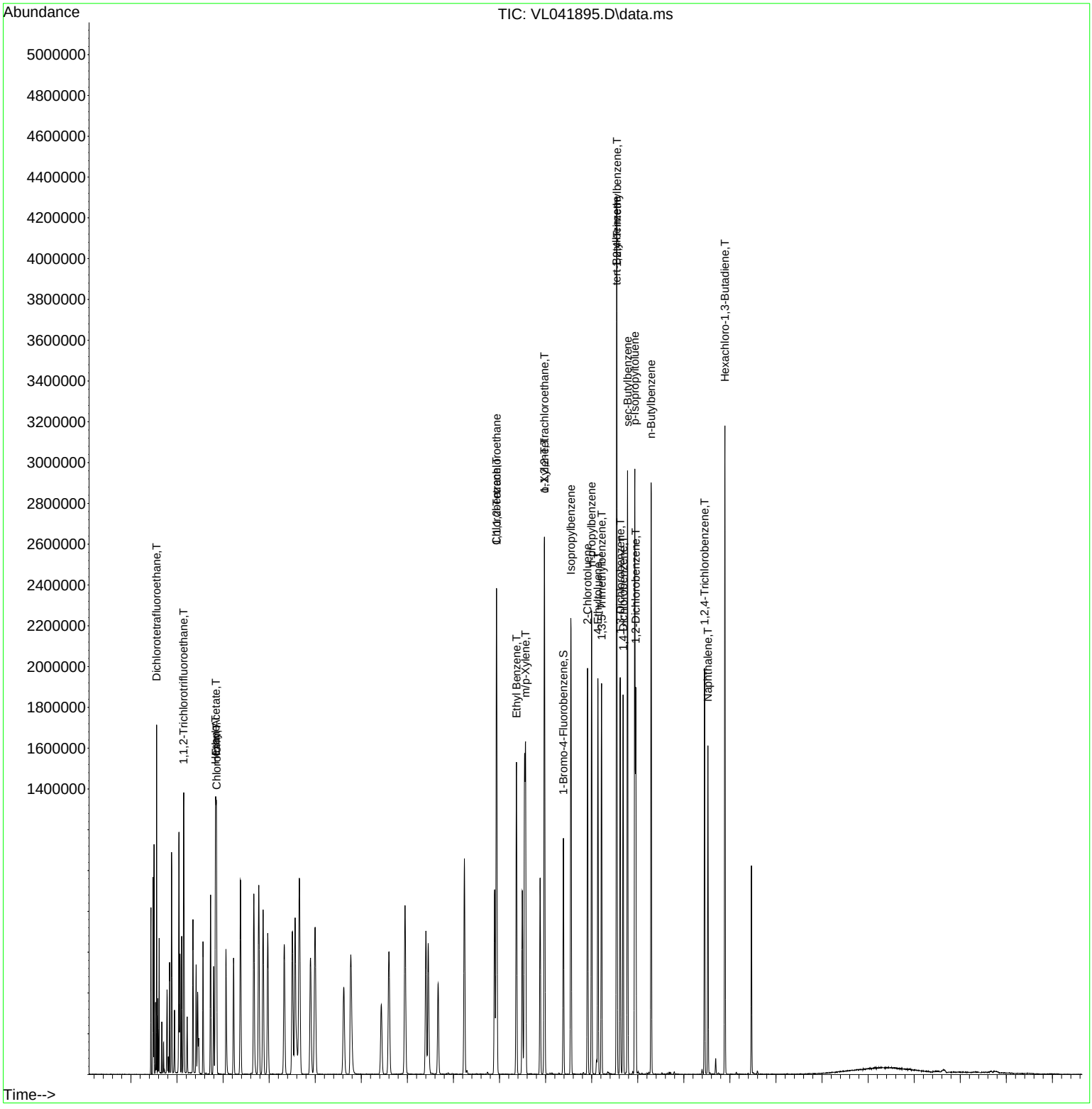
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	141664	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	417936	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	373391	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	298000	10.133	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	190925	9.894	ppbv	97
3) Chlorodifluoromethane	1.479	51	200455	9.916	ppbv	100
4) Chloromethane	1.534	50	71767	9.889	ppbv	95
5) Vinyl Chloride	1.583	62	71974	9.791	ppbv	94
6) Bromomethane	1.670	94	33594	9.589	ppbv	96
7) Chloroethane	1.706	64	29553	10.333	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	163783	9.712	ppbv	99
9) Propene	1.486	41	82320	9.886	ppbv	99
10) Heptane	4.998	43	225230	10.119	ppbv	99
11) Trichlorofluoromethane	1.881	101	198523	9.890	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	159862	10.162	ppbv	100
13) Ethanol	1.725	45	3780	6.197	ppbv	97
14) Bromoethene	1.784	108	57260	9.941	ppbv	98
15) Acetone	1.839	43	150112	8.822	ppbv	98
16) 1,3-Butadiene	1.612	39	73640	9.643	ppbv	100
17) tert-Butyl alcohol	2.046	59	204358	9.758	ppbv	98
18) 1,1-Dichloroethene	2.039	96	71011	10.015	ppbv	96
19) Isopropyl Alcohol	1.890	45	93592	9.277	ppbv	97
20) Methylene Chloride	2.065	84	60115	8.940	ppbv	97
21) Allyl Chloride	2.101	41	118907	10.092	ppbv	97
22) trans-1,2-Dichloroethene	2.347	96	77379	9.669	ppbv	96
23) Vinyl Acetate	2.470	43	80428	9.536	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	155440	10.042	ppbv	98
25) Ethyl Acetate	2.842	43	458484	9.993	ppbv	100
26) Hexane	2.832	57	184436	10.164	ppbv	99
27) Carbon Disulfide	2.156	76	186668	10.395	ppbv	98
28) Methyl tert-Butyl Ether	2.447	73	112489	8.110	ppbv	99
29) Chloroform	2.855	83	282467	9.847	ppbv	99
30) Cyclohexane	3.865	84	159296	10.120	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	187012	9.787	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	284661	10.371	ppbv	99
34) 2-Butanone	2.564	43	261536	9.840	ppbv	99
35) Carbon Tetrachloride	3.771	117	285391	10.871	ppbv	96
36) Benzene	3.667	78	374271	9.764	ppbv	99
37) 1,2-Dichloroethane	3.227	62	214545	9.966	ppbv	100
38) Trichloroethene	4.564	130	153255	10.075	ppbv	95
39) 1,2-Dichloropropane	4.324	63	130483	9.704	ppbv	97
40) 1,4-Dioxane	4.599	88	63736	9.386	ppbv #	99
41) Tetrahydrofuran	3.062	42	148132	10.255	ppbv	98
42) Bromodichloromethane	4.506	83	299656	10.381	ppbv	96
43) Methyl Methacrylate	4.894	69	145663	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.654	57	619804	9.997	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	145145	10.889	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	186898	10.680	ppbv		98
47) 1,1,2-Trichloroethane	6.596	97	140891	9.886	ppbv		97
48) Dibromochloromethane	7.399	129	238244	10.835	ppbv		100
49) Bromoform	9.493	173	201141	11.136	ppbv		99
50) 4-Methyl-2-Pentanone	5.771	43	363675	10.023	ppbv		99
51) 2-Hexanone	7.451	43	284058	10.189	ppbv	#	99
52) Tetrachloroethene	8.237	164	127806	9.616	ppbv		98
53) Toluene	6.949	91	427033	10.227	ppbv		99
54) 1,2-Dibromoethane	7.665	107	199339	10.175	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.937	131	188209	10.103	ppbv		99
57) Chlorobenzene	8.933	112	329025	9.553	ppbv		99
58) Ethyl Benzene	9.364	91	601857	10.314	ppbv		99
59) m/p-Xylene	9.561	91	964838m	20.628	ppbv		
60) o-Xylene	9.972	91	480442	10.348	ppbv		100
61) Styrene	9.878	104	229797	11.034	ppbv		99
62) Isopropylbenzene	10.548	105	728189	10.136	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.972	83	290998	9.809	ppbv		100
64) n-propylbenzene	10.998	120	182397	10.048	ppbv		98
65) tert-Butylbenzene	11.539	119	657521	10.043	ppbv		100
66) Benzyl Chloride	11.623	91	42509	10.490	ppbv	#	97
67) sec-Butylbenzene	11.778	105	901260	9.997	ppbv		98
69) p-Isopropyltoluene	11.934	119	745566	10.043	ppbv		99
70) n-Butylbenzene	12.290	91	733637	9.965	ppbv		99
71) 2-Chlorotoluene	10.911	91	543858	10.234	ppbv		100
72) 4-Ethyltoluene	11.134	105	568921	10.245	ppbv		99
73) 1,3,5-Trimethylbenzene	11.212	105	493388	10.061	ppbv		99
74) 1,2,4-Trimethylbenzene	11.545	105	528225	9.946	ppbv		98
75) 1,3-Dichlorobenzene	11.617	146	304133	9.664	ppbv		99
76) 1,4-Dichlorobenzene	11.681	146	297765	9.670	ppbv		99
77) 1,2-Dichlorobenzene	11.956	146	298039	9.555	ppbv		99
78) Hexachloro-1,3-Butadiene	13.889	225	228592	8.929	ppbv		99
79) Naphthalene	13.523	128	497063	9.295	ppbv		99
80) Naphthalene,2-methyl-	14.468	142	187571	7.398	ppbv		98
81) 1,2,4-Trichlorobenzene	13.448	180	236181	9.049	ppbv		99

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

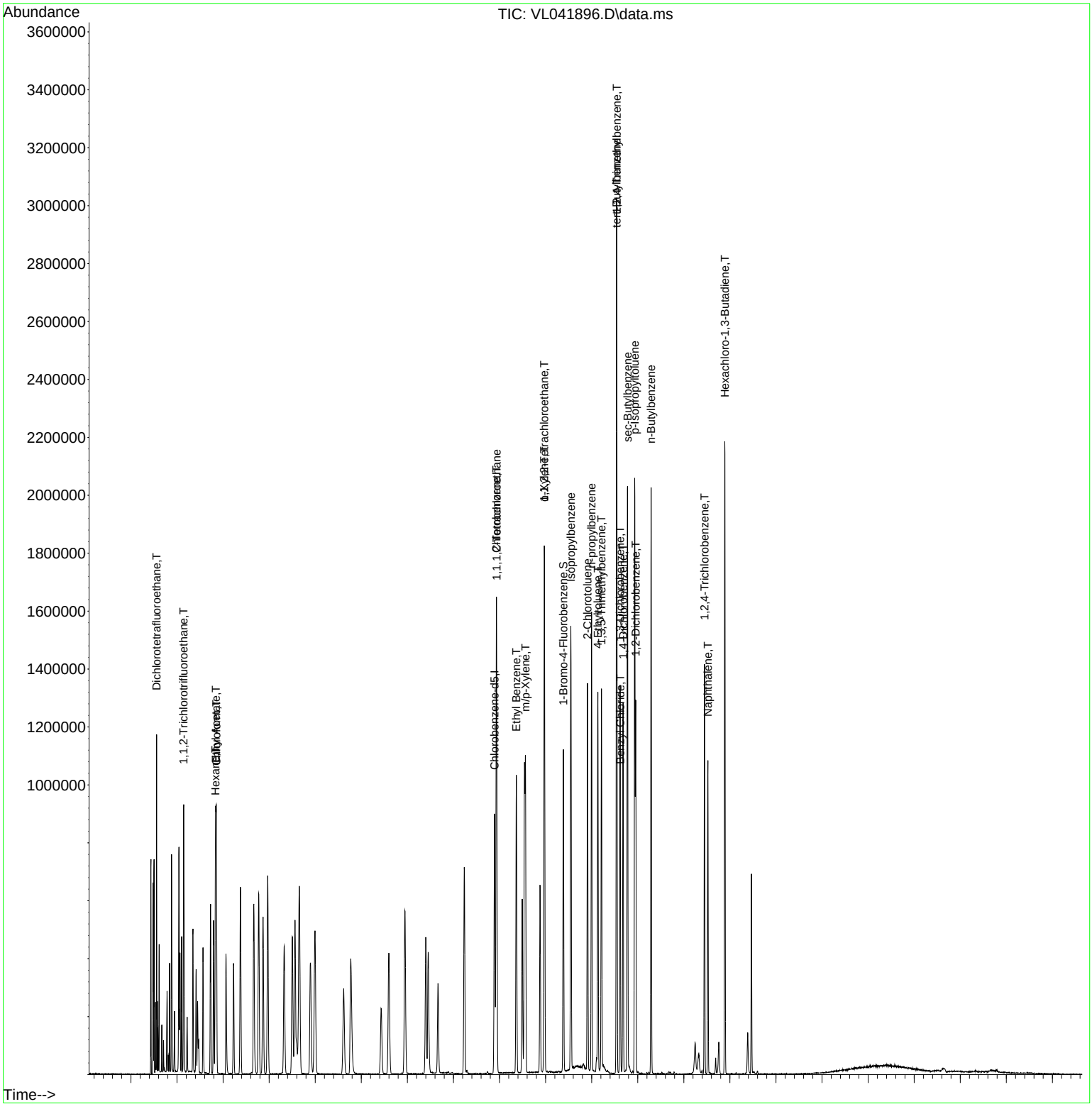
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2	T	Dichlorodifluoromethane	1.362	1.348	1.0	96	0.00
3		Chlorodifluoromethane	1.427	1.415	0.8	99	0.00
4		Chloromethane	0.512	0.507	1.0	96	0.00
5	T	Vinyl Chloride	0.519	0.508	2.1	101	0.00
6	T	Bromomethane	0.247	0.237	4.0	96	0.00
7		Chloroethane	0.202	0.209	-3.5	101	0.00
8	T	Dichlorotetrafluoroethane	1.190	1.156	2.9	98	0.00
9	T	Propene	0.588	0.581	1.2	95	0.00
10	T	Heptane	1.571	1.590	-1.2	97	0.00
11	T	Trichlorofluoromethane	1.417	1.401	1.1	98	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.110	1.128	-1.6	99	0.00
13		Ethanol	0.043	0.027#	37.2#	91	0.00
14	T	Bromoethene	0.407	0.404	0.7	101	0.00
15	T	Acetone	1.201	1.060	11.7	99	0.00
16	T	1,3-Butadiene	0.539	0.520	3.5	98	0.00
17		tert-Butyl alcohol	1.478	1.443	2.4	96	0.00
18	T	1,1-Dichloroethene	0.501	0.501	0.0	102	0.00
19	T	Isopropyl Alcohol	0.712	0.661	7.2	99	0.00
20	T	Methylene Chloride	0.475	0.424	10.7	101	0.00
21	T	Allyl Chloride	0.832	0.839	-0.8	99	0.00
22	T	trans-1,2-Dichloroethene	0.565	0.546	3.4	94	0.00
23	T	Vinyl Acetate	0.595	0.568	4.5	98	0.00
24	T	1,1-Dichloroethane	1.093	1.097	-0.4	100	0.00
25	T	Ethyl Acetate	3.239	3.236	0.1	97	0.00
26	T	Hexane	1.281	1.302	-1.6	96	0.00
27	T	Carbon Disulfide	1.268	1.318	-3.9	97	0.00
28	T	Methyl tert-Butyl Ether	0.979	0.794	18.9	95	0.00
29	T	Chloroform	2.025	1.994	1.5	97	0.00
30	T	Cyclohexane	1.111	1.124	-1.2	97	0.00
31	T	cis-1,2-Dichloroethene	1.349	1.320	2.1	97	0.00
32	T	1,1,1-Trichloroethane	1.938	2.009	-3.7	98	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34	T	2-Butanone	0.636	0.626	1.6	97	0.00
35	T	Carbon Tetrachloride	0.628	0.683	-8.8	98	0.00
36	T	Benzene	0.917	0.896	2.3	94	0.00
37	T	1,2-Dichloroethane	0.515	0.513	0.4	97	0.00
38	T	Trichloroethene	0.364	0.367	-0.8	96	0.00
39	T	1,2-Dichloropropane	0.322	0.312	3.1	95	0.00
40	T	1,4-Dioxane	0.162	0.153	5.6	96	0.00
41	T	Tetrahydrofuran	0.346	0.354	-2.3	95	0.00
42	T	Bromodichloromethane	0.691	0.717	-3.8	98	0.00
43		Methyl Methacrylate	0.341	0.349	-2.3	96	0.00
44	T	2,2,4-Trimethylpentane	1.484	1.483	0.1	95	0.00
45	T	t-1,3-Dichloropropene	0.319	0.347	-8.8	96	0.00
46	T	cis-1,3-Dichloropropene	0.419	0.447	-6.7	93	0.00
47	T	1,1,2-Trichloroethane	0.341	0.337	1.2	94	0.00
48	T	Dibromochloromethane	0.526	0.570	-8.4	97	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.432	0.481	-11.3	97	0.00
50	T	4-Methyl-2-Pentanone	0.868	0.870	-0.2	97	0.00
51	T	2-Hexanone	0.667	0.680	-1.9	97	0.00
52	T	Tetrachloroethene	0.318	0.306	3.8	97	0.00
53	T	Toluene	0.999	1.022	-2.3	94	0.00
54	T	1,2-Dibromoethane	0.469	0.477	-1.7	98	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	0.499	0.504	-1.0	98	0.00
57	T	Chlorobenzene	0.922	0.881	4.4	97	0.00
58	T	Ethyl Benzene	1.563	1.612	-3.1	97	0.00
59	T	m/p-Xylene	1.253	1.292	-3.1	99	0.00
60	T	o-Xylene	1.243	1.287	-3.5	98	0.00
61	T	Styrene	0.558	0.615	-10.2	98	0.00
62		Isopropylbenzene	1.924	1.950	-1.4	98	0.00
63	T	1,1,2,2-Tetrachloroethane	0.795	0.779	2.0	97	0.00
64		n-propylbenzene	0.486	0.488	-0.4	97	0.00
65		tert-Butylbenzene	1.753	1.761	-0.5	98	0.00
66	T	Benzyl Chloride	0.109	0.114	-4.6	92	0.00
67		sec-Butylbenzene	2.414	2.414	0.0	98	0.00
68	S	1-Bromo-4-Fluorobenzene	0.788	0.798	-1.3	95	0.00
69		p-Isopropyltoluene	1.988	1.997	-0.5	97	0.00
70		n-Butylbenzene	1.972	1.965	0.4	97	0.00
71		2-Chlorotoluene	1.423	1.457	-2.4	98	0.00
72	T	4-Ethyltoluene	1.487	1.524	-2.5	97	0.00
73	T	1,3,5-Trimethylbenzene	1.313	1.321	-0.6	98	0.00
74	T	1,2,4-Trimethylbenzene	1.422	1.415	0.5	98	0.00
75	T	1,3-Dichlorobenzene	0.843	0.815	3.3	98	0.00
76	T	1,4-Dichlorobenzene	0.825	0.797	3.4	97	0.00
77	T	1,2-Dichlorobenzene	0.835	0.798	4.4	98	0.00
78	T	Hexachloro-1,3-Butadiene	0.686	0.612	10.8	97	0.00
79	T	Naphthalene	1.432	1.331	7.1	99	0.00
80	T	Naphthalene,2-methyl-	0.679	0.502	26.1	101	0.00
81	T	1,2,4-Trichlorobenzene	0.699	0.633	9.4	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

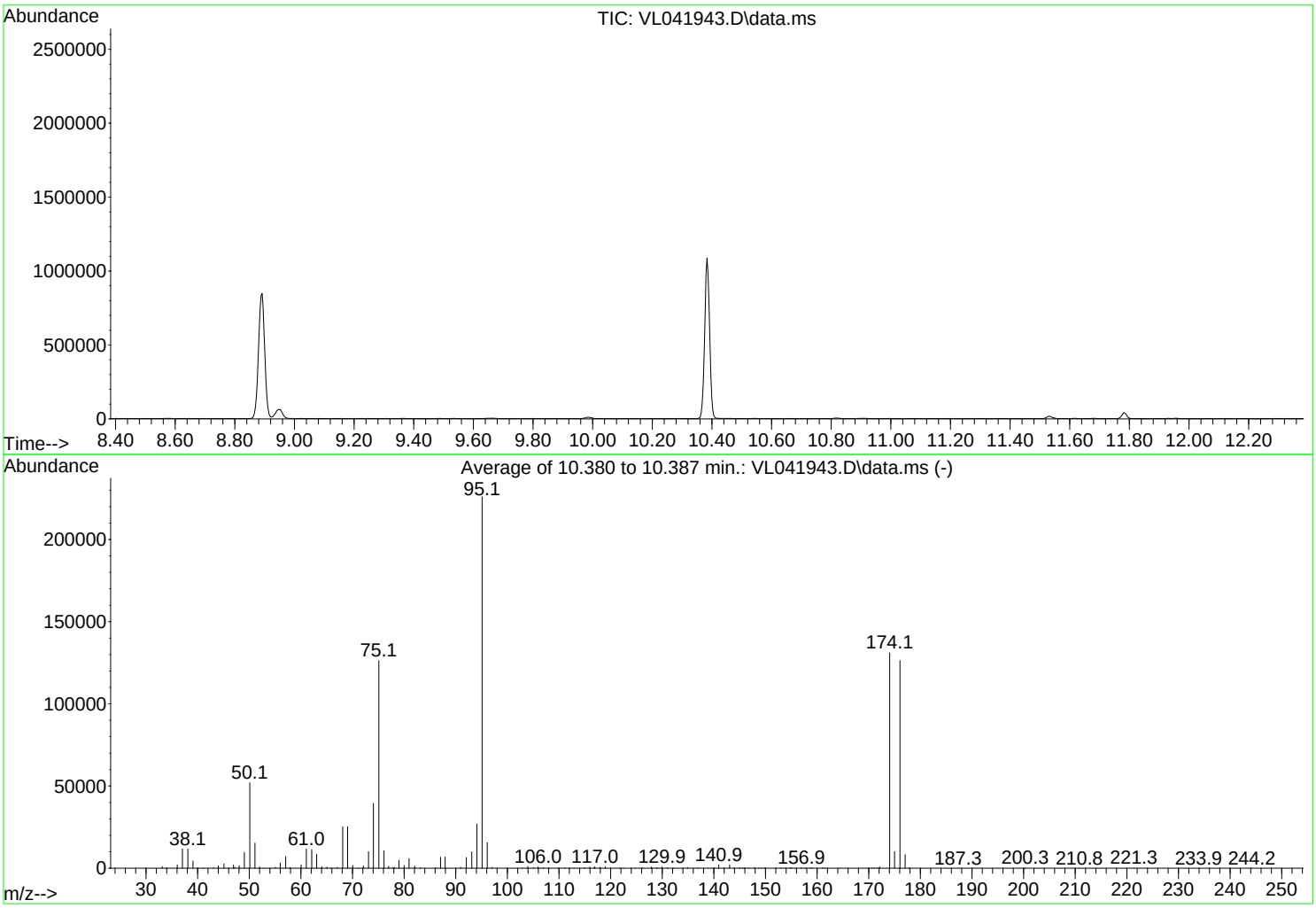
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041943.D
Acq On : 27 Jan 2025 09:02
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3180, 3181, 3182; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	51995	PASS
75	95	30	66	55.9	126285	PASS
95	95	100	100	100.0	226027	PASS
96	95	5	9	6.9	15556	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	58.0	131061	PASS
175	174	4	9	7.8	10200	PASS
176	174	93	101	96.4	126352	PASS
177	176	5	9	6.5	8251	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	149075	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	415161	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	364534	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	290387	10.114	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	213119	10.496	ppbv	98
3) Chlorodifluoromethane	1.479	51	227003	10.671	ppbv	100
4) Chloromethane	1.534	50	82387	10.788	ppbv	98
5) Vinyl Chloride	1.583	62	78132	10.101	ppbv	97
6) Bromomethane	1.670	94	37894	10.279	ppbv	98
7) Chloroethane	1.706	64	33025	10.973	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	184435	10.393	ppbv	98
9) Propene	1.486	41	90955	10.380	ppbv	95
10) Heptane	4.994	43	258967	11.056	ppbv	98
11) Trichlorofluoromethane	1.881	101	205801	9.743	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	170817	10.318	ppbv	99
13) Ethanol	1.725	45	4415	6.878	ppbv	94
14) Bromoethene	1.787	108	58083	9.583	ppbv	96
15) Acetone	1.839	43	169478	9.465	ppbv	99
16) 1,3-Butadiene	1.612	39	84348	10.496	ppbv	100
17) tert-Butyl alcohol	2.046	59	207930	9.435	ppbv	98
18) 1,1-Dichloroethene	2.039	96	75629	10.136	ppbv	99
19) Isopropyl Alcohol	1.890	45	96486	9.088	ppbv	95
20) Methylene Chloride	2.065	84	64225	9.076	ppbv	98
21) Allyl Chloride	2.101	41	129597	10.453	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	87196	10.355	ppbv	97
23) Vinyl Acetate	2.470	43	73473	8.278	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	168681	10.356	ppbv	99
25) Ethyl Acetate	2.845	43	533237	11.044	ppbv	99
26) Hexane	2.832	57	211315	11.066	ppbv	97
27) Carbon Disulfide	2.156	76	205971	10.900	ppbv	97
28) Methyl tert-Butyl Ether	2.447	73	111584	7.645	ppbv	100
29) Chloroform	2.858	83	326439	10.814	ppbv	99
30) Cyclohexane	3.871	84	176628	10.664	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	205197	10.205	ppbv	93
32) 1,1,1-Trichloroethane	3.379	97	312255	10.810	ppbv	99
34) 2-Butanone	2.564	43	303997	11.514	ppbv	99
35) Carbon Tetrachloride	3.774	117	316836	12.150	ppbv	99
36) Benzene	3.667	78	432961	11.370	ppbv	97
37) 1,2-Dichloroethane	3.227	62	240456	11.244	ppbv	99
38) Trichloroethene	4.564	130	167416	11.079	ppbv	97
39) 1,2-Dichloropropane	4.324	63	148143	11.091	ppbv	98
40) 1,4-Dioxane	4.596	88	69928	10.367	ppbv #	99
41) Tetrahydrofuran	3.065	42	170732	11.899	ppbv	99
42) Bromodichloromethane	4.502	83	334591	11.669	ppbv	96
43) Methyl Methacrylate	4.897	69	156013	11.029	ppbv	98
44) 2,2,4-Trimethylpentane	4.655	57	717998	11.658	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	147450	11.136	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.619	75	202424	11.644	ppbv		99
47)	1,1,2-Trichloroethane	6.597	97	164305	11.606	ppbv		97
48)	Dibromochloromethane	7.399	129	262942	12.038	ppbv		100
49)	Bromoform	9.493	173	216634	12.074	ppbv		99
50)	4-Methyl-2-Pentanone	5.771	43	410655	11.394	ppbv		100
51)	2-Hexanone	7.451	43	319063	11.521	ppbv	#	98
52)	Tetrachloroethene	8.238	164	137364	10.404	ppbv		98
53)	Toluene	6.946	91	475146	11.456	ppbv		99
54)	1,2-Dibromoethane	7.668	107	224086	11.514	ppbv		94
56)	1,1,1,2-Tetrachloroethane	8.937	131	211703	11.640	ppbv		99
57)	Chlorobenzene	8.933	112	376929	11.210	ppbv		97
58)	Ethyl Benzene	9.364	91	655579	11.507	ppbv		99
59)	m/p-Xylene	9.561	91	1069261m	23.416	ppbv		
60)	o-Xylene	9.972	91	536013	11.826	ppbv		99
61)	Styrene	9.882	104	240993	11.853	ppbv		100
62)	Isopropylbenzene	10.548	105	806301	11.496	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.972	83	339396	11.718	ppbv		99
64)	n-propylbenzene	10.998	120	209670	11.831	ppbv		98
65)	tert-Butylbenzene	11.542	119	733219	11.472	ppbv		100
66)	Benzyl Chloride	11.626	91	42157	10.656	ppbv		97
67)	sec-Butylbenzene	11.778	105	1007276	11.445	ppbv		100
69)	p-Isopropyltoluene	11.937	119	838003	11.563	ppbv		99
70)	n-Butylbenzene	12.290	91	822628	11.445	ppbv		100
71)	2-Chlorotoluene	10.911	91	593791	11.445	ppbv		100
72)	4-Ethyltoluene	11.134	105	639849	11.802	ppbv		99
73)	1,3,5-Trimethylbenzene	11.212	105	552715	11.544	ppbv		94
74)	1,2,4-Trimethylbenzene	11.545	105	595508	11.485	ppbv		96
75)	1,3-Dichlorobenzene	11.617	146	342543	11.149	ppbv		99
76)	1,4-Dichlorobenzene	11.681	146	337079	11.213	ppbv		99
77)	1,2-Dichlorobenzene	11.956	146	339752	11.157	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.892	225	238004	9.523	ppbv		99
79)	Naphthalene	13.523	128	531745	10.186	ppbv		99
80)	Naphthalene,2-methyl-	14.468	142	172526	6.970	ppbv		99
81)	1,2,4-Trichlorobenzene	13.452	180	242148	9.503	ppbv		99

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

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	1.362	1.430	-5.0	108	0.00
3		Chlorodifluoromethane	1.427	1.523	-6.7	112	0.00
4		Chloromethane	0.512	0.553	-8.0	110	0.00
5	T	Vinyl Chloride	0.519	0.524	-1.0	110	0.00
6	T	Bromomethane	0.247	0.254	-2.8	109	0.00
7		Chloroethane	0.202	0.222	-9.9	113	0.00
8	T	Dichlorotetrafluoroethane	1.190	1.237	-3.9	111	0.00
9	T	Propene	0.588	0.610	-3.7	105	0.00
10	T	Heptane	1.571	1.737	-10.6	111	0.00
11	T	Trichlorofluoromethane	1.417	1.381	2.5	101	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.110	1.146	-3.2	106	0.00
13		Ethanol	0.043	0.030#	30.2#	106	0.00
14	T	Bromoethene	0.407	0.390	4.2	103	0.00
15	T	Acetone	1.201	1.137	5.3	112	0.00
16	T	1,3-Butadiene	0.539	0.566	-5.0	112	0.00
17		tert-Butyl alcohol	1.478	1.395	5.6	98	0.00
18	T	1,1-Dichloroethene	0.501	0.507	-1.2	108	0.00
19	T	Isopropyl Alcohol	0.712	0.647	9.1	102	0.00
20	T	Methylene Chloride	0.475	0.431	9.3	108	0.00
21	T	Allyl Chloride	0.832	0.869	-4.4	107	0.00
22	T	trans-1,2-Dichloroethene	0.565	0.585	-3.5	106	0.00
23	T	Vinyl Acetate	0.595	0.493	17.1	90	0.00
24	T	1,1-Dichloroethane	1.093	1.132	-3.6	109	0.00
25	T	Ethyl Acetate	3.239	3.577	-10.4	113	0.00
26	T	Hexane	1.281	1.418	-10.7	110	0.00
27	T	Carbon Disulfide	1.268	1.382	-9.0	108	0.00
28	T	Methyl tert-Butyl Ether	0.979	0.749	23.5	95	0.00
29	T	Chloroform	2.025	2.190	-8.1	112	0.00
30	T	Cyclohexane	1.111	1.185	-6.7	107	0.00
31	T	cis-1,2-Dichloroethene	1.349	1.376	-2.0	106	0.00
32	T	1,1,1-Trichloroethane	1.938	2.095	-8.1	108	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34	T	2-Butanone	0.636	0.732	-15.1	112	0.00
35	T	Carbon Tetrachloride	0.628	0.763	-21.5	109	0.00
36	T	Benzene	0.917	1.043	-13.7	109	0.00
37	T	1,2-Dichloroethane	0.515	0.579	-12.4	109	0.00
38	T	Trichloroethene	0.364	0.403	-10.7	105	0.00
39	T	1,2-Dichloropropane	0.322	0.357	-10.9	108	0.00
40	T	1,4-Dioxane	0.162	0.168	-3.7	106	0.00
41	T	Tetrahydrofuran	0.346	0.411	-18.8	109	0.00
42	T	Bromodichloromethane	0.691	0.806	-16.6	109	0.00
43		Methyl Methacrylate	0.341	0.376	-10.3	103	0.00
44	T	2,2,4-Trimethylpentane	1.484	1.729	-16.5	110	0.00
45	T	t-1,3-Dichloropropene	0.319	0.355	-11.3	97	0.00
46	T	cis-1,3-Dichloropropene	0.419	0.488	-16.5	101	0.00
47	T	1,1,2-Trichloroethane	0.341	0.396	-16.1	110	0.00
48	T	Dibromochloromethane	0.526	0.633	-20.3	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.432	0.522	-20.8	105	0.00
50	T	4-Methyl-2-Pentanone	0.868	0.989	-13.9	110	0.00
51	T	2-Hexanone	0.667	0.769	-15.3	109	0.00
52	T	Tetrachloroethene	0.318	0.331	-4.1	105	0.00
53	T	Toluene	0.999	1.144	-14.5	105	0.00
54	T	1,2-Dibromoethane	0.469	0.540	-15.1	110	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
56		1,1,1,2-Tetrachloroethane	0.499	0.581	-16.4	110	0.00
57	T	Chlorobenzene	0.922	1.034	-12.1	111	0.00
58	T	Ethyl Benzene	1.563	1.798	-15.0	106	0.00
59	T	m/p-Xylene	1.253	1.467	-17.1	109	0.00
60	T	o-Xylene	1.243	1.470	-18.3	109	0.00
61	T	Styrene	0.558	0.661	-18.5	103	0.00
62		Isopropylbenzene	1.924	2.212	-15.0	109	0.00
63	T	1,1,2,2-Tetrachloroethane	0.795	0.931	-17.1	113	0.00
64		n-propylbenzene	0.486	0.575	-18.3	112	0.00
65		tert-Butylbenzene	1.753	2.011	-14.7	109	0.00
66	T	Benzyl Chloride	0.109	0.116	-6.4	92	0.00
67		sec-Butylbenzene	2.414	2.763	-14.5	109	0.00
68	S	1-Bromo-4-Fluorobenzene	0.788	0.797	-1.1	93	0.00
69		p-Isopropyltoluene	1.988	2.299	-15.6	109	0.00
70		n-Butylbenzene	1.972	2.257	-14.5	108	0.00
71		2-Chlorotoluene	1.423	1.629	-14.5	107	0.00
72	T	4-Ethyltoluene	1.487	1.755	-18.0	109	0.00
73	T	1,3,5-Trimethylbenzene	1.313	1.516	-15.5	109	0.00
74	T	1,2,4-Trimethylbenzene	1.422	1.634	-14.9	111	0.00
75	T	1,3-Dichlorobenzene	0.843	0.940	-11.5	110	0.00
76	T	1,4-Dichlorobenzene	0.825	0.925	-12.1	110	0.00
77	T	1,2-Dichlorobenzene	0.835	0.932	-11.6	112	0.00
78	T	Hexachloro-1,3-Butadiene	0.686	0.653	4.8	102	0.00
79	T	Naphthalene	1.432	1.459	-1.9	106	0.00
80	T	Naphthalene,2-methyl-	0.679	0.473	30.3#	93	0.00
81	T	1,2,4-Trichlorobenzene	0.699	0.664	5.0	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

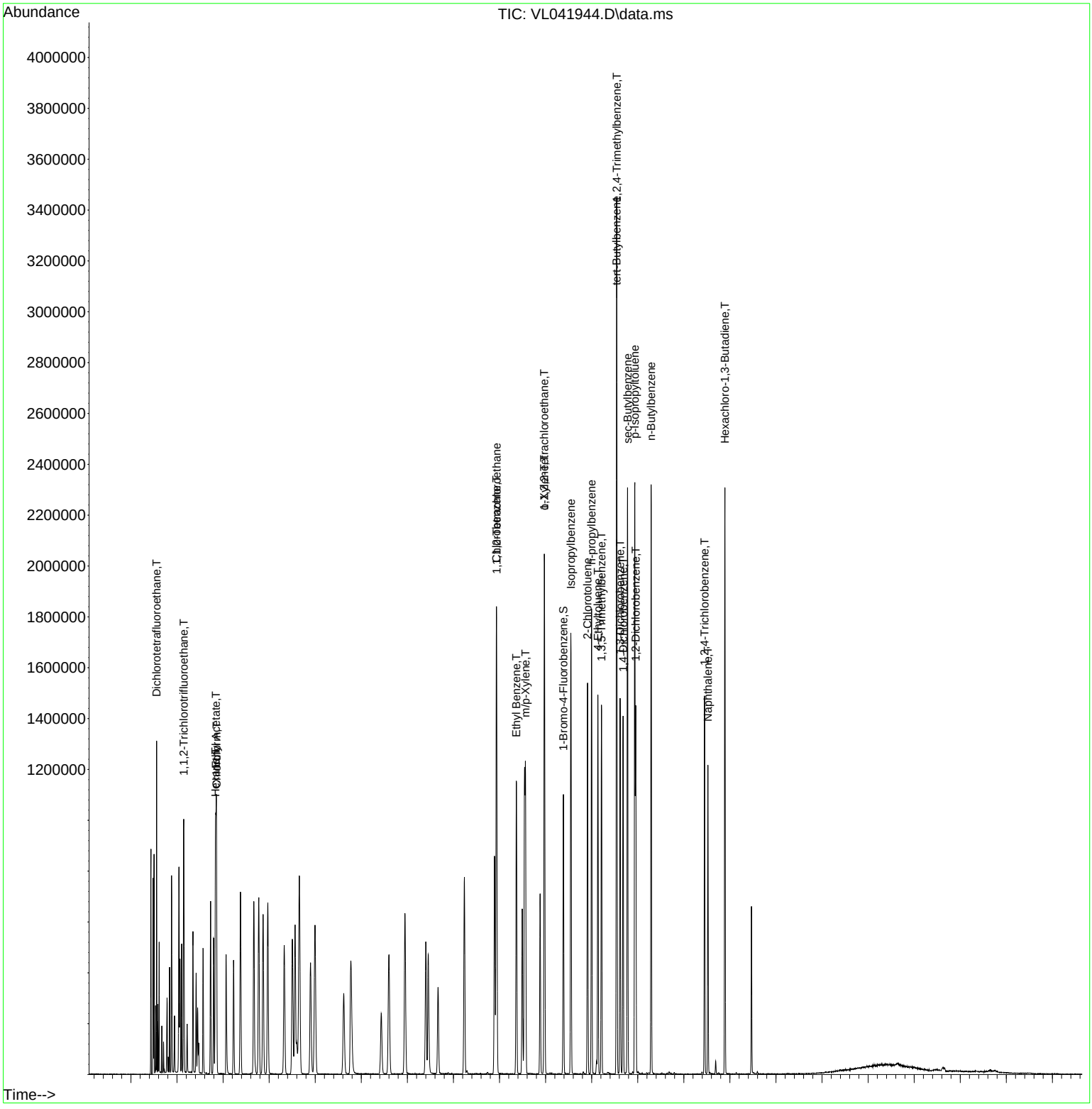
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041946.D
Acq On : 27 Jan 2025 11:17
Operator : SY/MD
Sample : VL0127ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL02

Quant Time: Jan 28 02:34:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

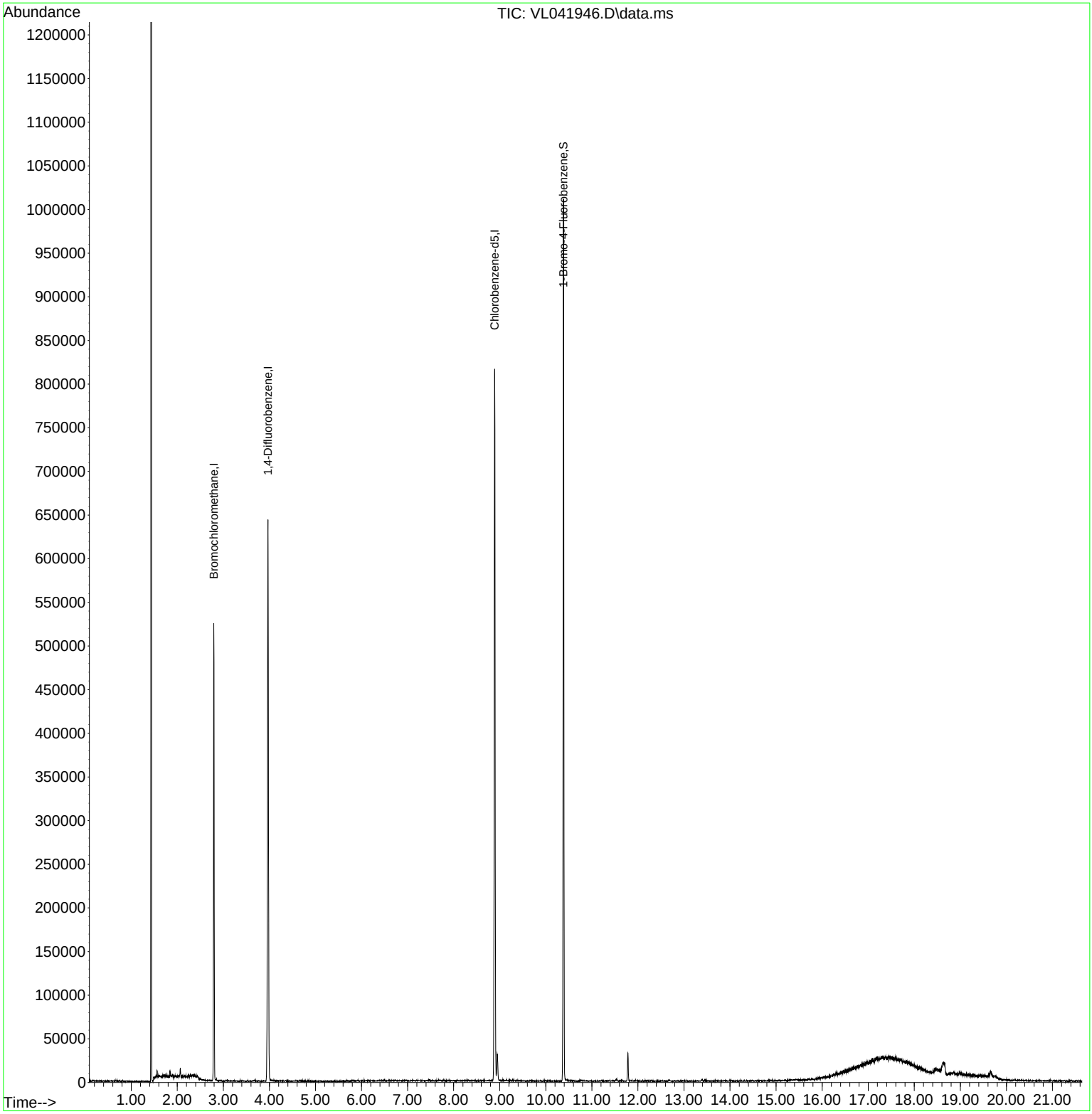
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	142661	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	386765	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	337301	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	257049	9.675	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.800%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041946.D
Acq On : 27 Jan 2025 11:17
Operator : SY/MD
Sample : VL0127ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL02

Quant Time: Jan 28 02:34:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041947.D
Acq On : 27 Jan 2025 12:19
Operator : SY/MD
Sample : VL0127ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 02:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0127ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	143025	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.975	114	399567	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.895	117	348759	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	276515	10.066	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	206901	10.620	ppbv		99
3) Chlorodifluoromethane	1.480	51	214338	10.502	ppbv		99
4) Chloromethane	1.538	50	76820	10.485	ppbv		96
5) Vinyl Chloride	1.583	62	76382	10.292	ppbv		97
6) Bromomethane	1.671	94	35162	9.941	ppbv		96
7) Chloroethane	1.709	64	30210	10.463	ppbv		98
8) Dichlorotetrafluoroethane	1.557	85	172692	10.143	ppbv		100
9) Propene	1.486	41	86511	10.290	ppbv		97
10) Heptane	4.998	43	253457	11.279	ppbv		98
11) Trichlorofluoromethane	1.884	101	197641	9.753	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.146	101	156498	9.853	ppbv		98
13) Ethanol	1.729	45	4346	7.057	ppbv		90
14) Bromoethene	1.787	108	57049	9.810	ppbv		99
15) Acetone	1.842	43	158965	9.254	ppbv		99
16) 1,3-Butadiene	1.612	39	83092	10.777	ppbv		97
17) tert-Butyl alcohol	2.049	59	194278	9.189	ppbv		98
18) 1,1-Dichloroethene	2.040	96	69693	9.736	ppbv		96
19) Isopropyl Alcohol	1.894	45	92836	9.115	ppbv		94
20) Methylene Chloride	2.069	84	60388	8.895	ppbv		95
21) Allyl Chloride	2.104	41	116571	9.800	ppbv		99
22) trans-1,2-Dichloroethene	2.347	96	81007	10.027	ppbv		97
23) Vinyl Acetate	2.470	43	79222	9.304	ppbv	#	96
24) 1,1-Dichloroethane	2.418	63	162663	10.409	ppbv		99
25) Ethyl Acetate	2.849	43	513887	11.094	ppbv		99
26) Hexane	2.836	57	200961	10.969	ppbv		95
27) Carbon Disulfide	2.156	76	192704	10.629	ppbv		99
28) Methyl tert-Butyl Ether	2.451	73	124946	8.923	ppbv		99
29) Chloroform	2.858	83	315137	10.881	ppbv		97
30) Cyclohexane	3.872	84	171665	10.802	ppbv		100
31) cis-1,2-Dichloroethene	2.732	61	198570	10.293	ppbv		92
32) 1,1,1-Trichloroethane	3.380	97	299609	10.811	ppbv		99
34) 2-Butanone	2.567	43	290154	11.419	ppbv		99
35) Carbon Tetrachloride	3.778	117	308983	12.311	ppbv		98
36) Benzene	3.671	78	414621	11.314	ppbv		99
37) 1,2-Dichloroethane	3.231	62	230482	11.198	ppbv		99
38) Trichloroethene	4.567	130	164755	11.329	ppbv		95
39) 1,2-Dichloropropane	4.334	63	143940	11.197	ppbv		97
40) 1,4-Dioxane	4.606	88	69223	10.663	ppbv	#	97
41) Tetrahydrofuran	3.069	42	160711	11.637	ppbv		99
42) Bromodichloromethane	4.509	83	328091	11.889	ppbv		95
43) Methyl Methacrylate	4.901	69	156642	11.506	ppbv		99
44) 2,2,4-Trimethylpentane	4.661	57	691648	11.668	ppbv		99
45) t-1,3-Dichloropropene	6.435	75	146256	11.477	ppbv		98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041947.D
Acq On : 27 Jan 2025 12:19
Operator : SY/MD
Sample : VL0127ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 02:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0127ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	197114	11.781	ppbv		100
47) 1,1,2-Trichloroethane	6.607	97	162420	11.921	ppbv		96
48) Dibromochloromethane	7.406	129	248197	11.806	ppbv		99
49) Bromoform	9.497	173	205170	11.881	ppbv		99
50) 4-Methyl-2-Pentanone	5.778	43	396687	11.436	ppbv		100
51) 2-Hexanone	7.461	43	320223	12.014	ppbv	#	97
52) Tetrachloroethene	8.238	164	137187	10.796	ppbv		95
53) Toluene	6.953	91	467674	11.715	ppbv		100
54) 1,2-Dibromoethane	7.671	107	215083	11.483	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.940	131	206531	11.870	ppbv		100
57) Chlorobenzene	8.937	112	373904	11.623	ppbv		97
58) Ethyl Benzene	9.371	91	647487	11.880	ppbv		96
59) m/p-Xylene	9.545	91	1065769m	24.395	ppbv		
60) o-Xylene	9.979	91	529149	12.203	ppbv		99
61) Styrene	9.885	104	243068	12.495	ppbv		99
62) Isopropylbenzene	10.552	105	793281	11.822	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.976	83	323789	11.685	ppbv		99
64) n-propylbenzene	11.002	120	206392	12.173	ppbv		99
65) tert-Butylbenzene	11.542	119	702412	11.487	ppbv		99
66) Benzyl Chloride	11.627	91	39829	10.523	ppbv		99
67) sec-Butylbenzene	11.779	105	980787	11.648	ppbv		100
69) p-Isopropyltoluene	11.937	119	813693	11.735	ppbv		100
70) n-Butylbenzene	12.293	91	802930	11.677	ppbv		99
71) 2-Chlorotoluene	10.914	91	587822	11.843	ppbv		100
72) 4-Ethyltoluene	11.138	105	644084	12.417	ppbv		99
73) 1,3,5-Trimethylbenzene	11.215	105	543491	11.865	ppbv		96
74) 1,2,4-Trimethylbenzene	11.549	105	591073	11.915	ppbv		95
75) 1,3-Dichlorobenzene	11.620	146	342442	11.649	ppbv		99
76) 1,4-Dichlorobenzene	11.682	146	338784	11.780	ppbv		99
77) 1,2-Dichlorobenzene	11.960	146	327583	11.244	ppbv		100
78) Hexachloro-1,3-Butadiene	13.895	225	217546	9.098	ppbv		99
79) Naphthalene	13.526	128	498588	9.982	ppbv		99
80) Naphthalene,2-methyl-	14.472	142	203477	8.593	ppbv		97
81) 1,2,4-Trichlorobenzene	13.452	180	220567	9.047	ppbv		99

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

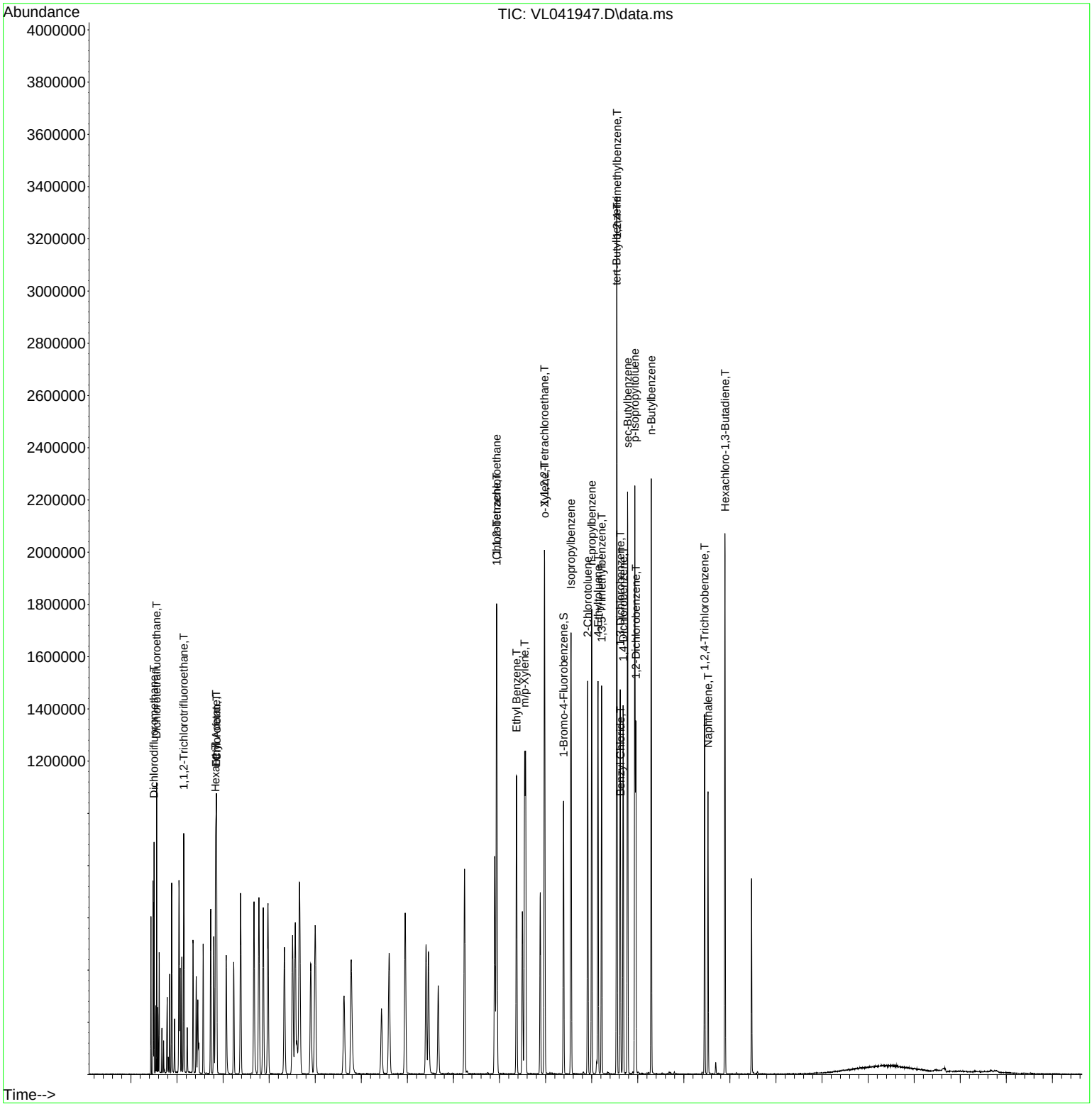
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041947.D
Acq On : 27 Jan 2025 12:19
Operator : SY/MD
Sample : VL0127ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 02:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0127ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041954.D
Acq On : 27 Jan 2025 16:11
Operator : SY/MD
Sample : QC012125 CAN 10268
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC012125 CAN 10268

Quant Time: Jan 28 02:39:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

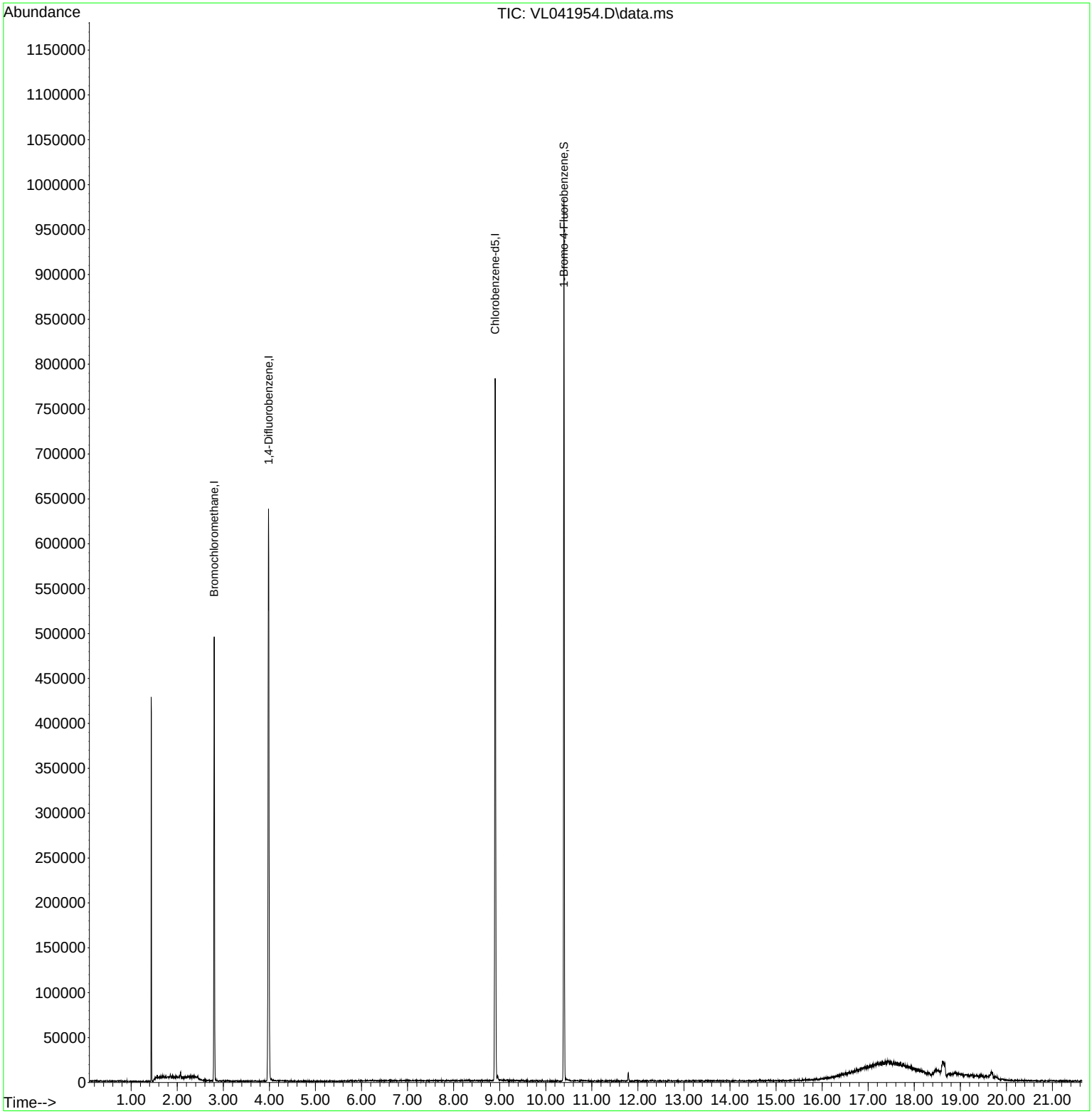
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	136962	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.982	114	367356	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	317099	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	238739	9.559	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.600%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041954.D
Acq On : 27 Jan 2025 16:11
Operator : SY/MD
Sample : QC012125 CAN 10268
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC012125 CAN 10268

Quant Time: Jan 28 02:39:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



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 # VL121624

Review By	Mahesh Dadoda	Review On	12/18/2024 8:44:47 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:48:10 AM		
SubDirectory	VL121624	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2556
Initial Calibration Stds	AP2560,AP2561,AP2562
CCC	AP2560,MDL,AP2561,AP2562
Internal Standard/PEM	AP2556
ICV/I.BLK	AP2558
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041750.D	16 Dec 2024 12:02	SY/MD	Ok
2	VSTDICC0.5	VL041751.D	16 Dec 2024 12:59	SY/MD	Not Ok
3	VSTDICCC010	VL041752.D	16 Dec 2024 13:30	SY/MD	Ok,M
4	VSTDICC002	VL041753.D	16 Dec 2024 14:03	SY/MD	Ok,M
5	VSTDICC001	VL041754.D	16 Dec 2024 14:34	SY/MD	Ok,M
6	VSTDICC0.5	VL041755.D	16 Dec 2024 15:05	SY/MD	Ok,M
7	VSTDICC0.1	VL041756.D	16 Dec 2024 15:37	SY/MD	Ok,M
8	VSTDICC0.03	VL041757.D	16 Dec 2024 16:08	SY/MD	Ok,M
9	VSTDICC015	VL041758.D	16 Dec 2024 16:41	SY/MD	Ok,M
10	VSTDICV010	VL041759.D	16 Dec 2024 18:59	SY/MD	Ok,M
11	VL1216ABL01	VL041760.D	16 Dec 2024 20:20	SY/MD	Ok
12	VL1216ABL02	VL041761.D	16 Dec 2024 20:51	SY/MD	Ok
13	VL1216ABL03	VL041762.D	16 Dec 2024 21:21	SY/MD	Ok
14	MDL 0.4	VL041763.D	16 Dec 2024 21:52	SY/MD	Ok,M
15	MDL 0.4	VL041764.D	16 Dec 2024 22:23	SY/MD	Ok,M
16	MDL 0.4	VL041765.D	16 Dec 2024 22:54	SY/MD	Ok,M
17	MDL 0.03	VL041766.D	16 Dec 2024 23:24	SY/MD	Ok,M
18	MDL 0.03	VL041767.D	16 Dec 2024 23:55	SY/MD	Ok,M
19	VL1216ABS01	VL041768.D	17 Dec 2024 00:57	SY/MD	Ok,M
20	VSTDCCC010	VL041769.D	17 Dec 2024 07:59	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 # VL121724

Review By	Mahesh Dadoda	Review On	12/18/2024 8:41:19 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:53:09 AM		
SubDirectory	VL121724	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2556
Initial Calibration Stds	AP2560,AP2561,AP2562
CCC	AP2560,MDL,AP2561,AP2562
Internal Standard/PEM	AP2556
ICV/I.BLK	AP2558
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041770.D	17 Dec 2024 08:44	SY/MD	Ok
2	VSTDCCC010	VL041771.D	17 Dec 2024 09:49	SY/MD	Ok,M
3	VL1217ABL01	VL041772.D	17 Dec 2024 10:36	SY/MD	Ok
4	VL1217ABL02	VL041773.D	17 Dec 2024 11:07	SY/MD	Ok
5	VL1217ABL03	VL041774.D	17 Dec 2024 11:38	SY/MD	Ok
6	MDL 0.4	VL041775.D	17 Dec 2024 13:10	SY/MD	Ok,M
7	MDL 0.4	VL041776.D	17 Dec 2024 13:41	SY/MD	Ok,M
8	MDL 0.4	VL041777.D	17 Dec 2024 14:13	SY/MD	Ok,M
9	MDL 0.03	VL041778.D	17 Dec 2024 14:44	SY/MD	Ok,M
10	MDL 0.03	VL041779.D	17 Dec 2024 15:15	SY/MD	Ok,M
11	MDL 0.03	VL041780.D	17 Dec 2024 15:46	SY/MD	Ok,M
12	MDL 0.03	VL041781.D	17 Dec 2024 16:17	SY/MD	Ok,M
13	QC120324 CAN 10279	VL041782.D	17 Dec 2024 16:48	SY/MD	Ok
14	QC120324 CAN 10654	VL041783.D	17 Dec 2024 17:19	SY/MD	Ok
15	VIBLK	VL041784.D	17 Dec 2024 17:50	SY/MD	Ok
16	VL1217ABS01	VL041785.D	17 Dec 2024 18:21	SY/MD	Ok,M
17	VSTDCCC010	VL041786.D	17 Dec 2024 18:52	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 # VL121824

Review By	Semsettin Yesilyurt	Review On	12/19/2024 1:32:59 PM				
Supervise By	Mahesh Dadoda	Supervise On	12/19/2024 2:45:49 PM				
SubDirectory	VL121824	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2556
Initial Calibration Stds	AP2560,AP2561,AP2562
CCC	AP2560,MDL,AP2561,AP2562
Internal Standard/PEM	AP2556
ICV/I.BLK	AP2558
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041787.D	18 Dec 2024 08:06	SY/MD	Ok
2	VSTDCCC010	VL041788.D	18 Dec 2024 10:29	SY/MD	Ok,M
3	VL1218ABL01	VL041789.D	18 Dec 2024 11:57	SY/MD	Ok
4	VL1218ABL02	VL041790.D	18 Dec 2024 12:28	SY/MD	Ok
5	MDL 0.4	VL041791.D	18 Dec 2024 12:59	SY/MD	Ok,M
6	MDL 0.4	VL041792.D	18 Dec 2024 13:30	SY/MD	Ok,M
7	MDL 0.03	VL041793.D	18 Dec 2024 14:32	SY/MD	Ok,M
8	MDL 0.03	VL041794.D	18 Dec 2024 15:03	SY/MD	Ok,M
9	VL1218ABS01	VL041795.D	18 Dec 2024 16:06	SY/MD	Ok,M
10	QC121724 CAN 10158	VL041796.D	18 Dec 2024 16:37	SY/MD	Ok
11	P5293-01	VL041797.D	18 Dec 2024 17:10	SY/MD	Ok,M
12	P5293-01DUP	VL041798.D	18 Dec 2024 17:43	SY/MD	Ok,M
13	P5293-02	VL041799.D	18 Dec 2024 18:17	SY/MD	Ok,M
14	P5293-03	VL041800.D	18 Dec 2024 18:50	SY/MD	Dilution
15	P5296-01	VL041801.D	18 Dec 2024 19:24	SY/MD	Ok,M
16	P5294-01	VL041802.D	18 Dec 2024 19:58	SY/MD	Ok,M
17	P5294-02	VL041803.D	18 Dec 2024 20:32	SY/MD	Ok,M
18	P5294-03	VL041804.D	18 Dec 2024 21:03	SY/MD	Not Ok
19	P5292-01	VL041805.D	18 Dec 2024 21:35	SY/MD	Not Ok
20	P5292-02	VL041806.D	18 Dec 2024 22:06	SY/MD	Not Ok
21	P5295-01	VL041807.D	18 Dec 2024 22:37	SY/MD	Dilution

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL121824

Review By	Semsettin Yesilyurt	Review On	12/19/2024 1:32:59 PM				
Supervise By	Mahesh Dadoda	Supervise On	12/19/2024 2:45:49 PM				
SubDirectory	VL121824	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2556
Initial Calibration Stds	AP2560,AP2561,AP2562
CCC	AP2560,MDL,AP2561,AP2562
Internal Standard/PEM	AP2556
ICV/I.BLK	AP2558
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P5295-02DL	VL041808.D	18 Dec 2024 23:08	SY/MD	Ok,M
23	VIBLK	VL041809.D	18 Dec 2024 23:40	SY/MD	Ok
24	P5293-03DL	VL041810.D	19 Dec 2024 00:11	SY/MD	Ok,M
25	P5294-03	VL041811.D	19 Dec 2024 00:44	SY/MD	Ok,M
26	P5292-01	VL041812.D	19 Dec 2024 01:18	SY/MD	Ok,M
27	P5292-02	VL041813.D	19 Dec 2024 01:55	SY/MD	Ok,M
28	P5295-01DL	VL041814.D	19 Dec 2024 02:26	SY/MD	Ok,M
29	P5295-02	VL041815.D	19 Dec 2024 02:59	SY/MD	Dilution
30	VSTDCCC010	VL041816.D	19 Dec 2024 03:31	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 # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574,MDL,AP2572,AP2573
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041887.D	14 Jan 2025 07:50	SY/MD	Ok
2	VSTDICC0.5	VL041888.D	14 Jan 2025 11:40	SY/MD	Not Ok
3	VSTDICCC010	VL041889.D	14 Jan 2025 12:55	SY/MD	Ok,M
4	VSTDICC002	VL041890.D	14 Jan 2025 13:28	SY/MD	Ok,M
5	VSTDICC001	VL041891.D	14 Jan 2025 13:59	SY/MD	Ok,M
6	VSTDICC0.5	VL041892.D	14 Jan 2025 14:30	SY/MD	Ok,M
7	VSTDICC0.1	VL041893.D	14 Jan 2025 15:01	SY/MD	Ok,M
8	VSTDICC0.03	VL041894.D	14 Jan 2025 15:32	SY/MD	Ok,M
9	VSTDICC015	VL041895.D	14 Jan 2025 16:05	SY/MD	Ok,M
10	VSTDICV010	VL041896.D	14 Jan 2025 17:33	SY/MD	Ok,M
11	VL0114ABL01	VL041897.D	14 Jan 2025 18:34	SY/MD	Ok
12	VL0114ABL02	VL041898.D	14 Jan 2025 19:05	SY/MD	Ok
13	VL0114ABS01	VL041899.D	14 Jan 2025 19:36	SY/MD	Ok,M
14	VIBLK	VL041900.D	14 Jan 2025 20:07	SY/MD	Ok
15	Q1073-04	VL041901.D	14 Jan 2025 20:40	SY/MD	Ok,M
16	Q1073-04DUP	VL041902.D	14 Jan 2025 21:14	SY/MD	Ok,M
17	Q1073-05	VL041903.D	14 Jan 2025 21:47	SY/MD	Ok,M
18	Q1073-06	VL041904.D	14 Jan 2025 22:21	SY/MD	Ok,M
19	Q1073-01	VL041905.D	14 Jan 2025 22:51	SY/MD	Ok,M
20	Q1073-02	VL041906.D	14 Jan 2025 23:22	SY/MD	Ok,M
21	Q1073-03	VL041907.D	14 Jan 2025 23:52	SY/MD	Ok,M

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM				
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574,MDL,AP2572,AP2573
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VIBLK	VL041908.D	15 Jan 2025 00:22	SY/MD	Ok
23	MDL 0.4	VL041909.D	15 Jan 2025 00:52	SY/MD	Ok,M
24	MDL 0.4	VL041910.D	15 Jan 2025 01:23	SY/MD	Ok,M
25	MDL 0.1	VL041911.D	15 Jan 2025 01:53	SY/MD	Ok,M
26	MDL 0.1	VL041912.D	15 Jan 2025 02:23	SY/MD	Ok,M
27	MDL 0.03	VL041913.D	15 Jan 2025 02:53	SY/MD	Ok,M
28	MDL 0.03	VL041914.D	15 Jan 2025 03:23	SY/MD	Ok,M
29	VSTDCCC010	VL041915.D	15 Jan 2025 08:37	SY/MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL012725

Review By	Semsettin Yesilyurt	Review On	1/30/2025 10:54:41 AM				
Supervise By	Mahesh Dadoda	Supervise On	1/30/2025 11:53:52 AM				
SubDirectory	VL012725	HP Acquire Method	TO15AIR.M		HP Processing Method	VL011425AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041943.D	27 Jan 2025 09:02	SY/MD	Ok
2	VSTDCCC010	VL041944.D	27 Jan 2025 10:05	SY/MD	Ok,M
3	VL0127ABL01	VL041945.D	27 Jan 2025 10:47	SY/MD	Ok
4	VL0127ABL02	VL041946.D	27 Jan 2025 11:17	SY/MD	Ok
5	VL0127ABS01	VL041947.D	27 Jan 2025 12:19	SY/MD	Ok,M
6	Q1168-14 0.5	VL041948.D	27 Jan 2025 13:05	SY/MD	Ok,M
7	Q1168-13 0.45	VL041949.D	27 Jan 2025 13:36	SY/MD	Ok,M
8	Q1168-13 0.40	VL041950.D	27 Jan 2025 14:06	SY/MD	Ok,M
9	Q1168-13 0.1	VL041951.D	27 Jan 2025 14:37	SY/MD	Ok,M
10	Q1168-13 0.03	VL041952.D	27 Jan 2025 15:09	SY/MD	Not Ok
11	Q1168-14 0.03	VL041953.D	27 Jan 2025 15:40	SY/MD	Not Ok
12	QC012125 CAN 10268	VL041954.D	27 Jan 2025 16:11	SY/MD	Ok
13	QC012125 CAN 10268	VL041955.D	27 Jan 2025 16:42	SY/MD	Not Ok
14	VSTDCCC010	VL041956.D	27 Jan 2025 17:13	SY/MD	Ok,M

M : Manual Integration

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	161135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	422655	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	374249	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	285943	9.263	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery =	92.600%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	152005	5.480	ppbv	99
3) Chlorodifluoromethane	1.479	51	211185	6.887	ppbv	96
4) Chloromethane	1.538	50	55364	5.136	ppbv	98
5) Vinyl Chloride	1.586	62	54228	4.207	ppbv	98
6) Bromomethane	1.674	94	25846	5.173	ppbv	90
7) Chloroethane	1.709	64	21717	5.169	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	125595	5.147	ppbv	94
9) Propene	1.489	41	84038	6.357	ppbv	97
10) Heptane	5.007	43	267860	7.296	ppbv	97
11) Trichlorofluoromethane	1.884	101	152112	5.449	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	112374	5.162	ppbv	93
13) Ethanol	1.729	45	3178	2.131	ppbv	85
14) Bromoethene	1.787	108	42461	5.223	ppbv	99
15) Acetone	1.842	43	115085	4.327	ppbv	95
16) 1,3-Butadiene	1.615	39	57707	4.574	ppbv	100
17) tert-Butyl alcohol	2.049	59	153073	4.651	ppbv	100
18) 1,1-Dichloroethene	2.043	96	51534	4.954	ppbv	95
19) Isopropyl Alcohol	1.894	45	67445	4.522	ppbv	98
20) Methylene Chloride	2.069	84	41998	4.195	ppbv	94
21) Allyl Chloride	2.104	41	86723	4.504	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	57617	5.104	ppbv	96
23) Vinyl Acetate	2.473	43	83866	5.823	ppbv	98
24) 1,1-Dichloroethane	2.418	63	107817	4.704	ppbv	100
25) Ethyl Acetate	2.852	43	511505	7.007	ppbv	99
26) Hexane	2.839	57	206577	7.052	ppbv	98
27) Carbon Disulfide	2.159	76	137978	5.008	ppbv	97
28) Methyl tert-Butyl Ether	2.450	73	84091	4.696	ppbv	98
29) Chloroform	2.862	83	277411	6.538	ppbv	96
30) Cyclohexane	3.875	84	173351	7.295	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	199354	6.886	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	285335	6.064	ppbv	98
34) 2-Butanone	2.570	43	292449	8.043	ppbv	100
35) Carbon Tetrachloride	3.781	117	276677	6.741	ppbv	97
36) Benzene	3.674	78	409501	7.999	ppbv	98
37) 1,2-Dichloroethane	3.234	62	219829	7.543	ppbv	100
38) Trichloroethene	4.570	130	159933	7.689	ppbv	93
39) 1,2-Dichloropropane	4.337	63	151036	8.047	ppbv	99
40) 1,4-Dioxane	4.609	88	69399	7.105	ppbv #	76
41) Tetrahydrofuran	3.072	42	176830	8.509	ppbv	95
42) Bromodichloromethane	4.512	83	312250	7.908	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

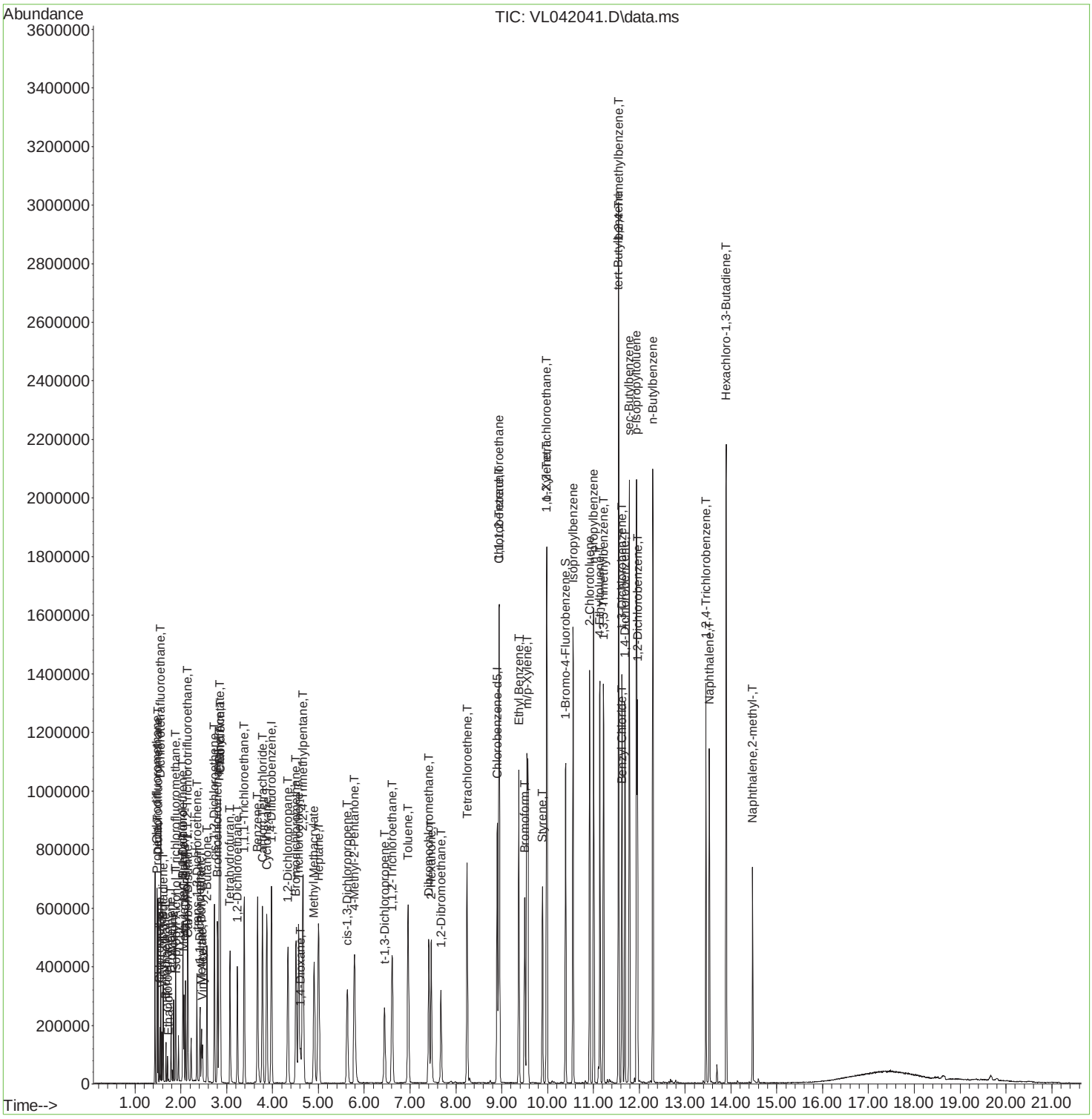
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Methyl Methacrylate	4.907	69	165494	7.091	ppbv		97
44) 2,2,4-Trimethylpentane	4.661	57	705920	8.122	ppbv		97
45) t-1,3-Dichloropropene	6.444	75	166207	7.544	ppbv		91
46) cis-1,3-Dichloropropene	5.629	75	218294	7.809	ppbv		99
47) 1,1,2-Trichloroethane	6.610	97	152556	7.723	ppbv		97
48) Dibromochloromethane	7.412	129	251213	7.593	ppbv		99
49) Bromoform	9.503	173	222057	8.183	ppbv		98
50) 4-Methyl-2-Pentanone	5.787	43	428434	7.666	ppbv		100
51) 2-Hexanone	7.464	43	352331	7.709	ppbv	#	96
52) Tetrachloroethene	8.244	164	138263	7.743	ppbv		94
53) Toluene	6.959	91	460041	7.541	ppbv		97
54) 1,2-Dibromoethane	7.678	107	211395	7.772	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.943	131	188811	7.049	ppbv		97
57) Chlorobenzene	8.940	112	340525	7.735	ppbv		97
58) Ethyl Benzene	9.374	91	633939	7.739	ppbv		98
59) m/p-Xylene	9.552	91	504964	7.827	ppbv	#	31
60) o-Xylene	9.982	91	493069	7.557	ppbv		97
61) Styrene	9.888	104	246161	7.912	ppbv		98
62) Isopropylbenzene	10.555	105	736884	7.522	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.979	83	317313	7.538	ppbv		100
64) n-propylbenzene	11.005	120	196044	8.145	ppbv		90
65) tert-Butylbenzene	11.545	119	648698	7.596	ppbv		97
66) Benzyl Chloride	11.630	91	57345	6.699	ppbv	#	97
67) sec-Butylbenzene	11.782	105	928863	7.744	ppbv		99
69) p-Isopropyltoluene	11.940	119	756264	7.702	ppbv		98
70) n-Butylbenzene	12.296	91	774646	8.009	ppbv		99
71) 2-Chlorotoluene	10.918	91	566619	7.681	ppbv		97
72) 4-Ethyltoluene	11.141	105	606538	7.934	ppbv		98
73) 1,3,5-Trimethylbenzene	11.219	105	516875	7.838	ppbv		100
74) 1,2,4-Trimethylbenzene	11.552	105	550412	7.777	ppbv		98
75) 1,3-Dichlorobenzene	11.623	146	325160	8.535	ppbv		97
76) 1,4-Dichlorobenzene	11.685	146	322404	8.678	ppbv		97
77) 1,2-Dichlorobenzene	11.963	146	312942	8.593	ppbv		96
78) Hexachloro-1,3-Butadiene	13.895	225	238217	7.907	ppbv		100
79) Naphthalene	13.526	128	513192	7.372	ppbv		99
80) Naphthalene,2-methyl-	14.471	142	210405	6.676	ppbv		95
81) 1,2,4-Trichlorobenzene	13.455	180	241031	8.517	ppbv		99

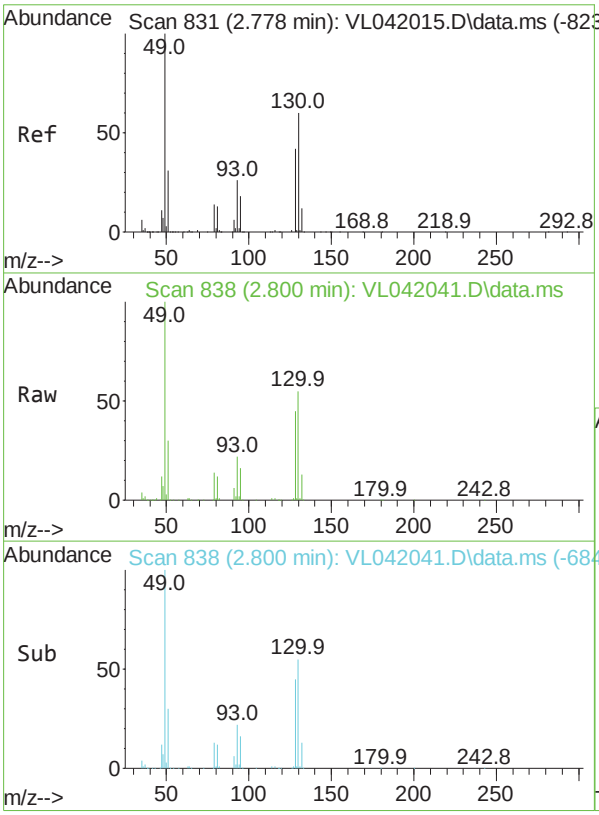
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration



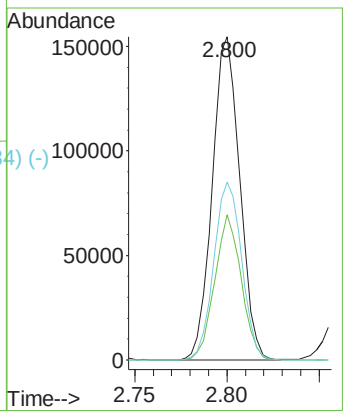


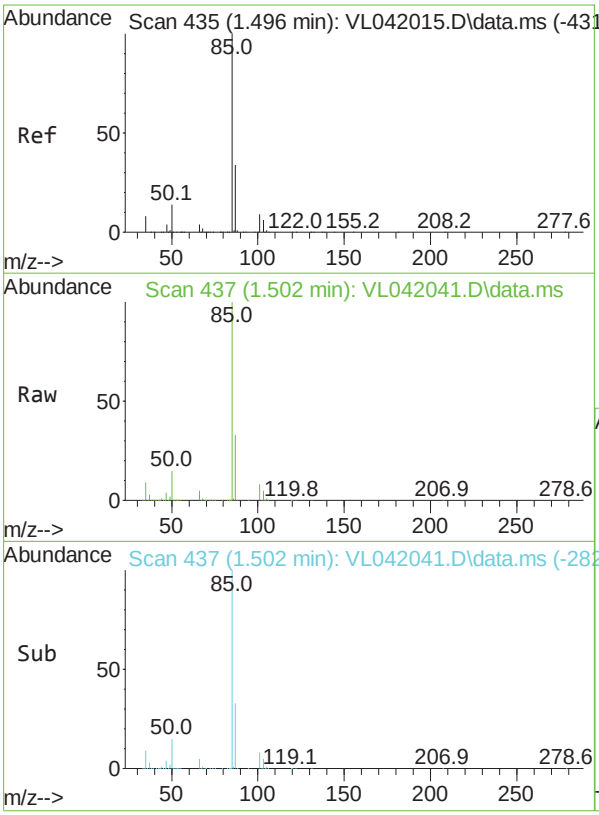
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 49 Resp: 161135

Ion	Ratio	Lower	Upper
49	100		
128	43.2	22.7	68.0
130	55.6	29.9	89.8

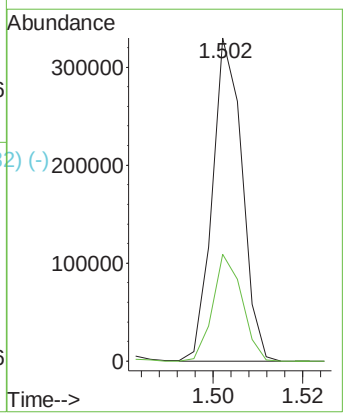


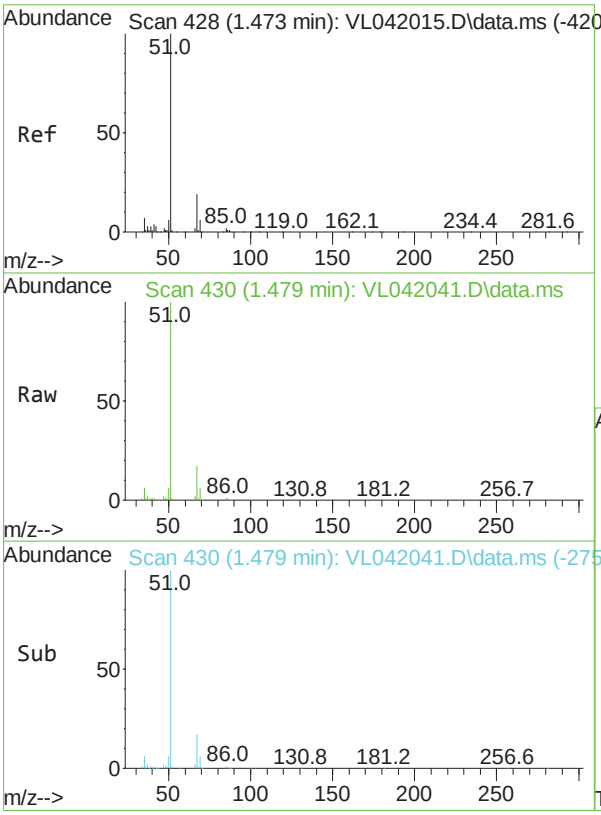


#2
Dichlorodifluoromethane
Concen: 5.480 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 85 Resp: 152005

Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.9	40.3



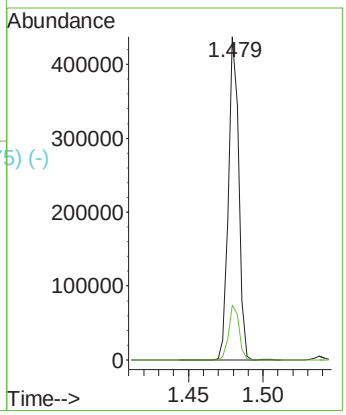


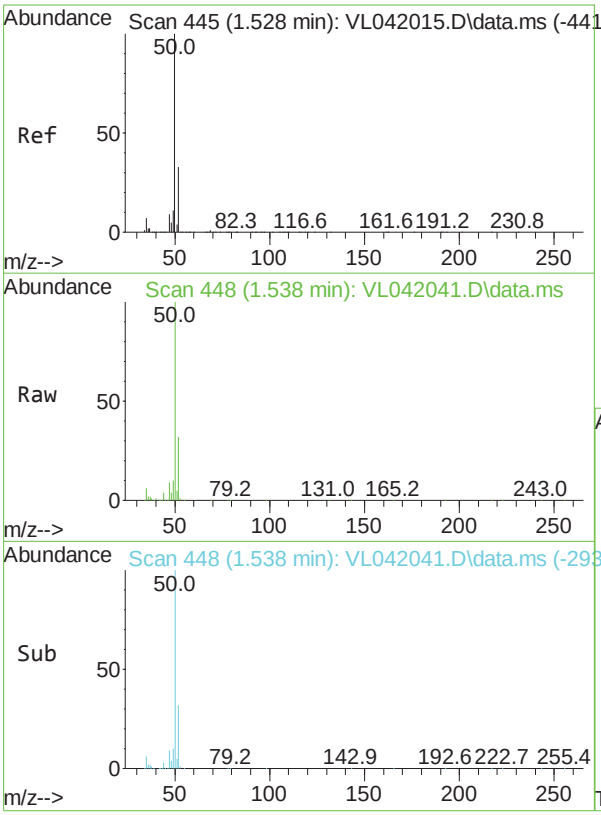
#3
Chlorodifluoromethane
Concen: 6.887 ppbv
RT: 1.479 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 211185

Ion	Ratio	Lower	Upper
51	100		
67	17.1	15.0	22.6

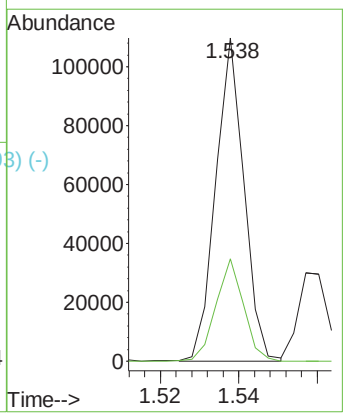


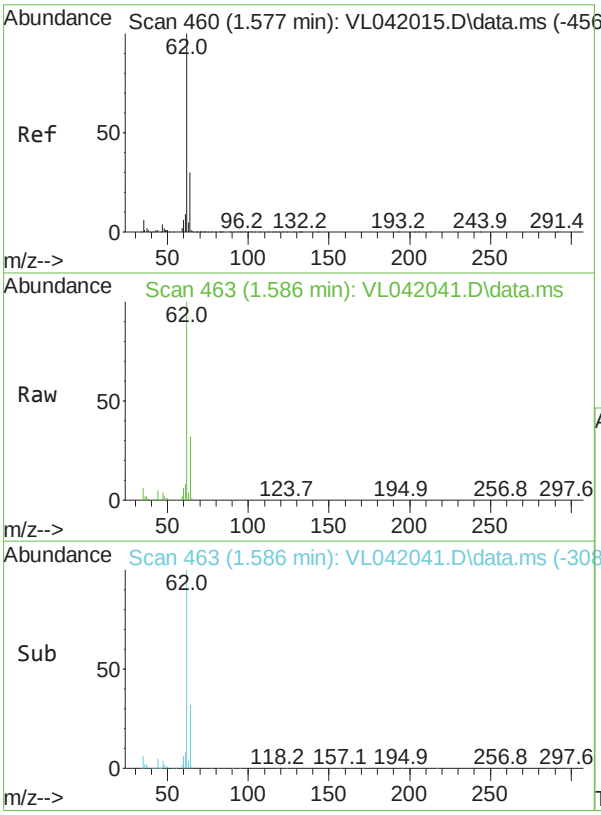


#4
Chloromethane
Concen: 5.136 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 50 Resp: 55364

Ion	Ratio	Lower	Upper
50	100		
52	31.7	26.2	39.2



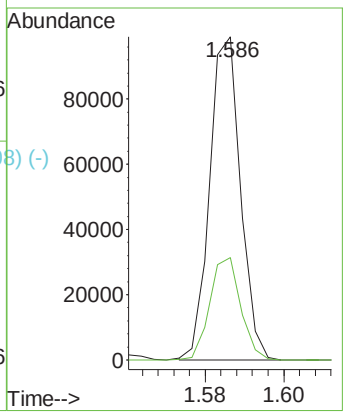


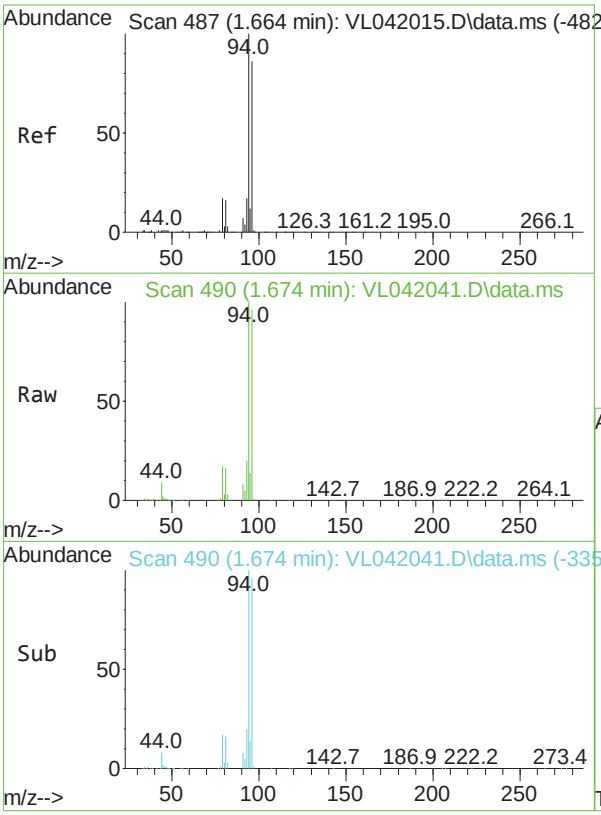
#5
Vinyl Chloride
Concen: 4.207 ppbv
RT: 1.586 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 54228

Ion	Ratio	Lower	Upper
62	100		
64	31.6	24.4	36.6

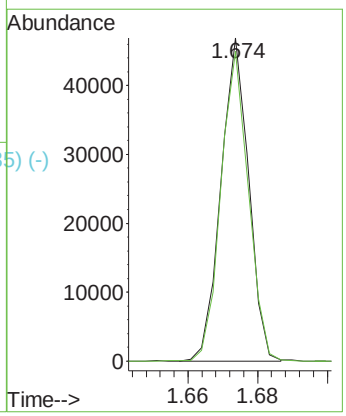


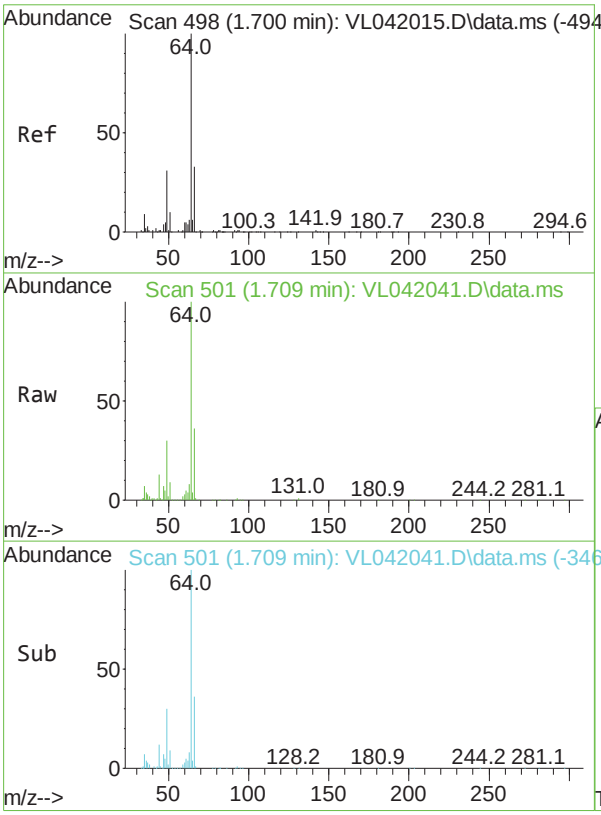


#6
Bromomethane
Concen: 5.173 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 94 Resp: 25846

Ion	Ratio	Lower	Upper
94	100		
96	95.6	69.0	103.6



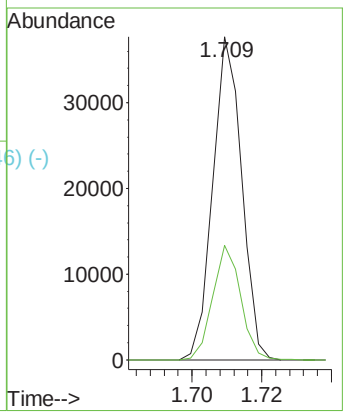


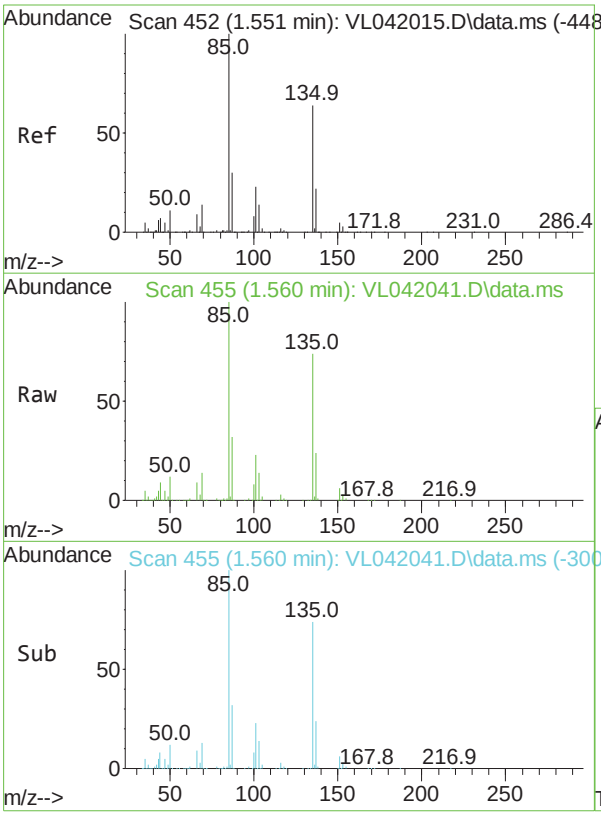
#7
Chloroethane
Concen: 5.169 ppbv
RT: 1.709 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 21717

Ion	Ratio	Lower	Upper
64	100		
66	35.5	26.5	39.7

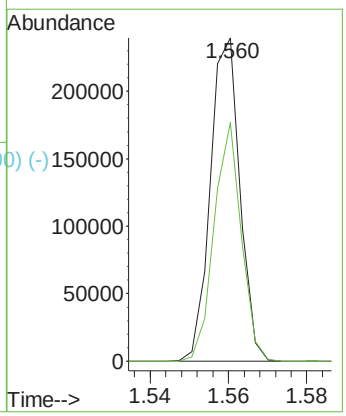


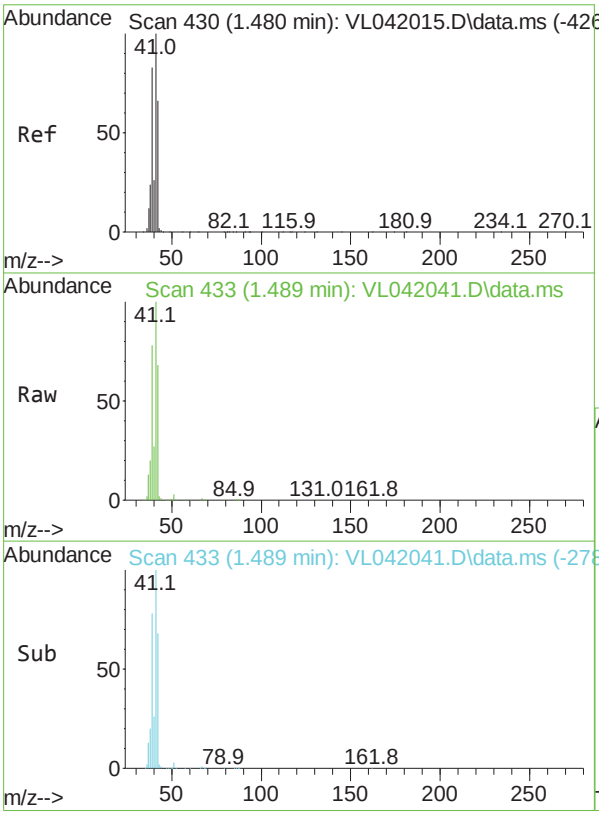


#8
Dichlorotetrafluoroethane
Concen: 5.147 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 85 Resp: 125595

Ion	Ratio	Lower	Upper
85	100		
135	68.2	50.9	76.3



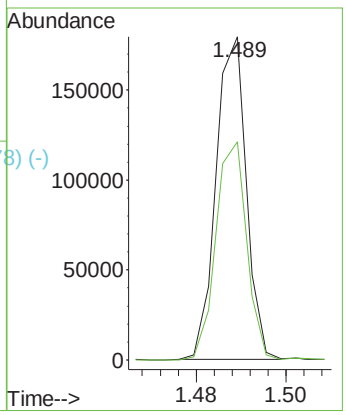


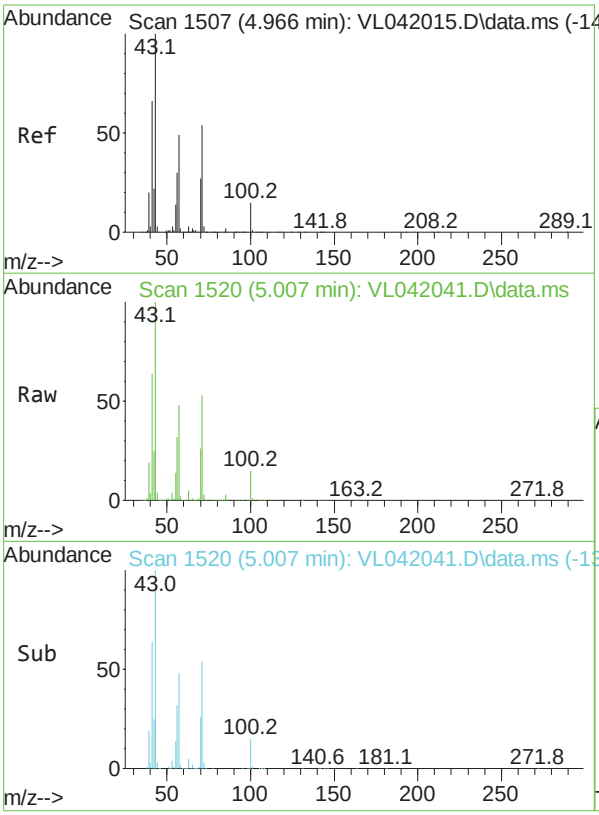
#9
Propene
Concen: 6.357 ppbv
RT: 1.489 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 84038

Ion	Ratio	Lower	Upper
41	100		
42	69.7	53.5	80.3

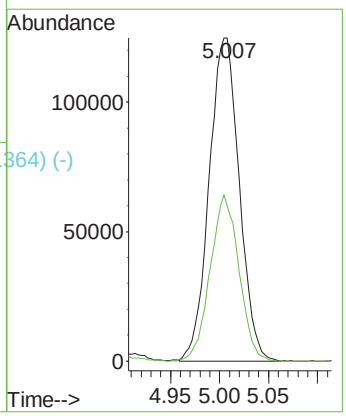


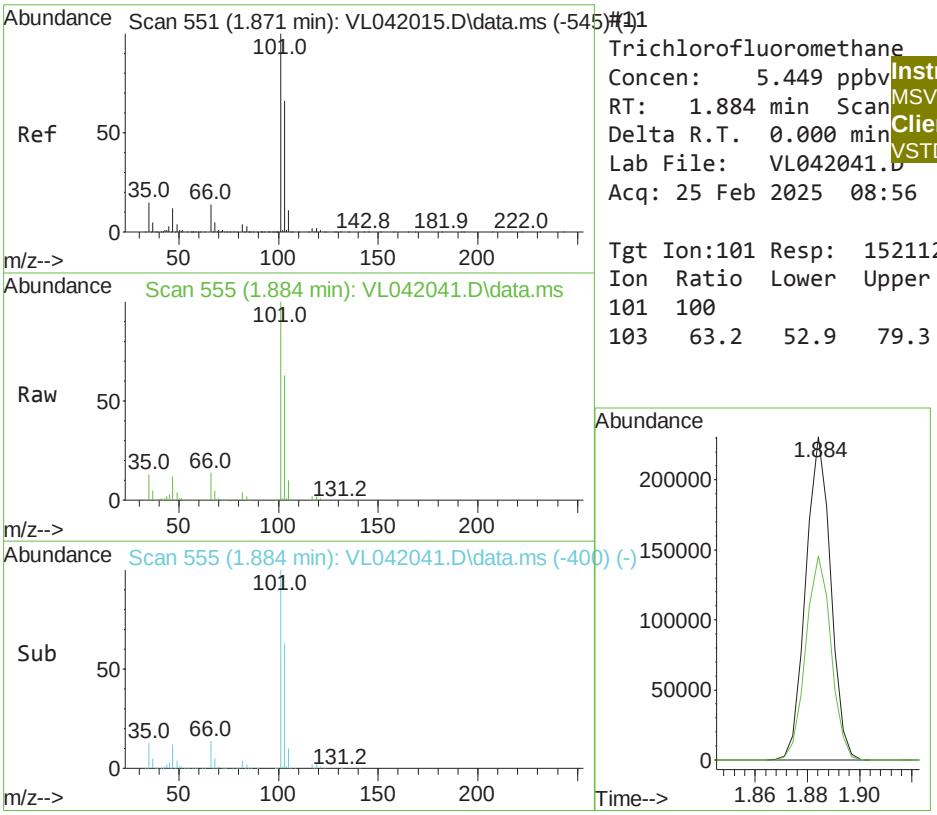


#10
Heptane
Concen: 7.296 ppbv
RT: 5.007 min Scan# 1520
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 43 Resp: 267860

Ion	Ratio	Lower	Upper
43	100		
57	49.2	41.0	61.6



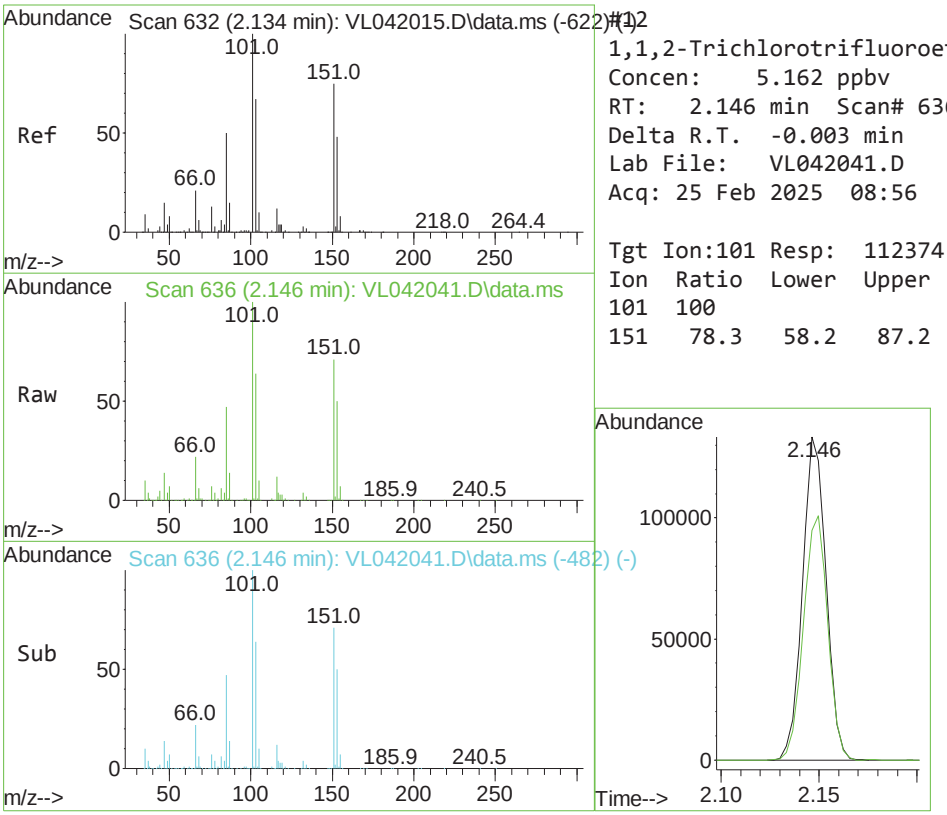


#1
Trichlorofluoromethane
Concen: 5.449 ppbv
RT: 1.884 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 152112

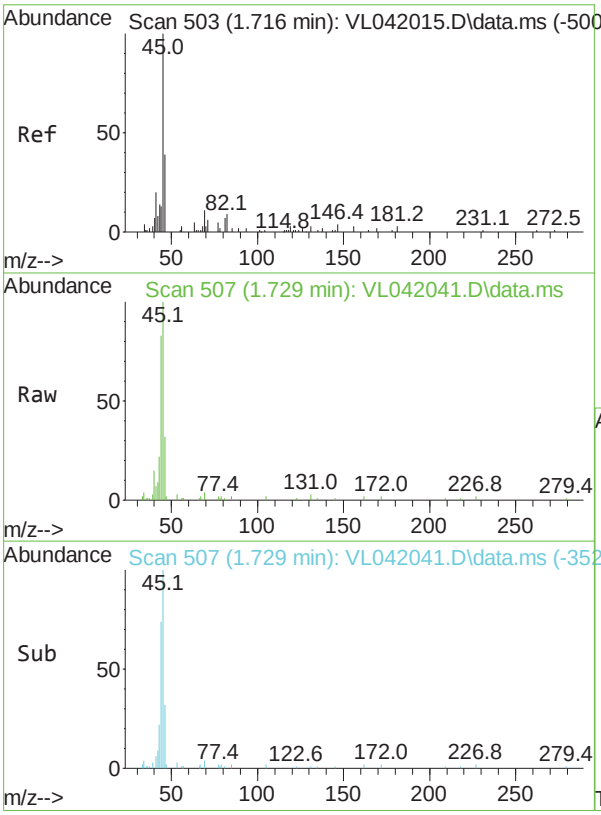
Ion	Ratio	Lower	Upper
101	100		
103	63.2	52.9	79.3



#2
1,1,2-Trichlorotrifluoroethane
Concen: 5.162 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:101 Resp: 112374

Ion	Ratio	Lower	Upper
101	100		
151	78.3	58.2	87.2

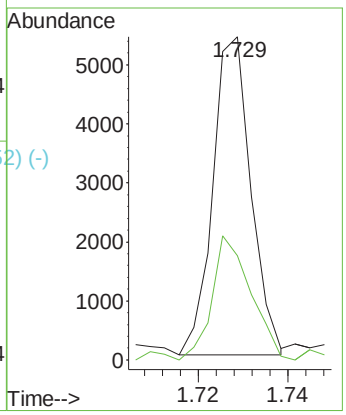


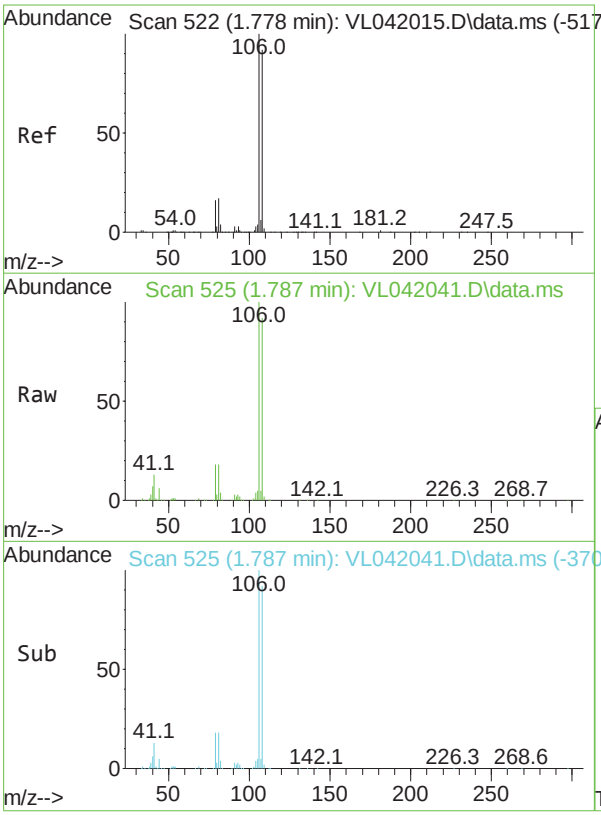
#13
Ethanol
Concen: 2.131 ppbv
RT: 1.729 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 3178

Ion	Ratio	Lower	Upper
45	100		
46	42.7	21.3	85.1

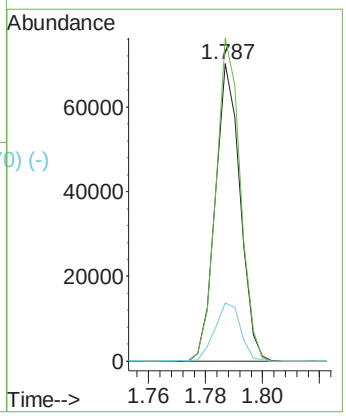


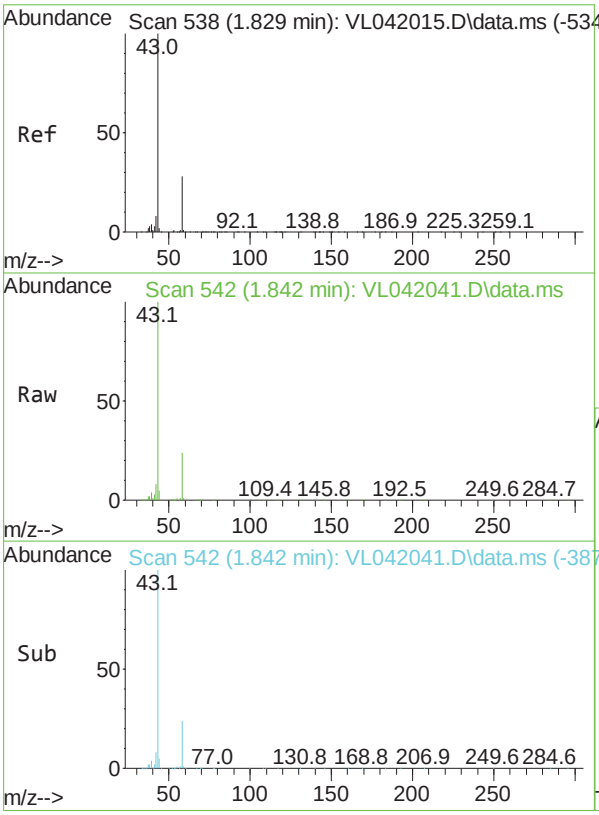


#14
Bromoethene
Concen: 5.223 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:108 Resp: 42461

Ion	Ratio	Lower	Upper
108	100		
106	106.7	85.0	127.6
79	20.6	17.3	25.9



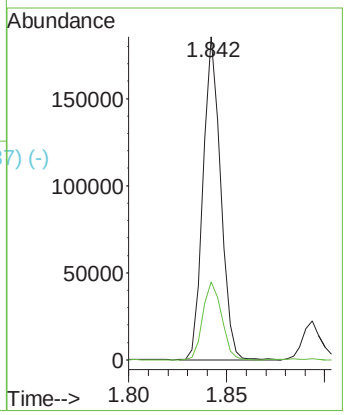


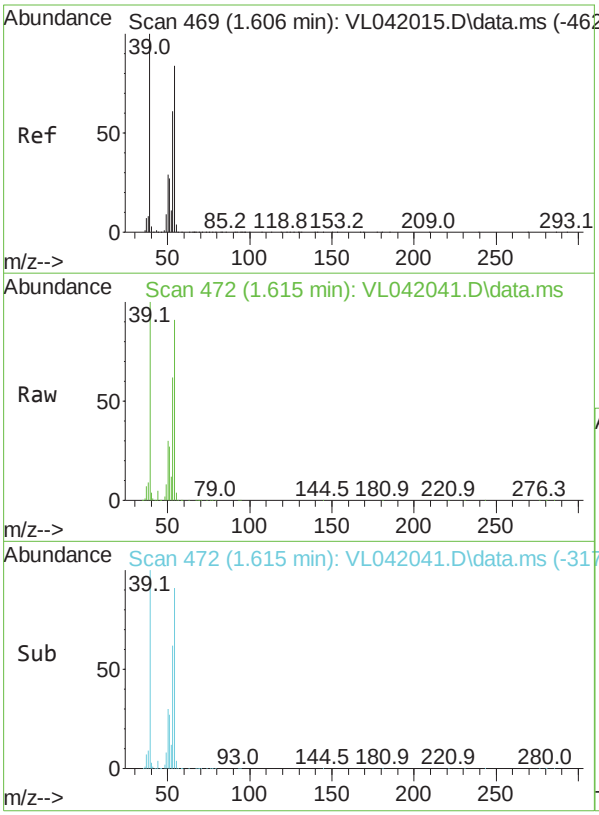
#15
Acetone
Concen: 4.327 ppbv
RT: 1.842 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 115085

Ion	Ratio	Lower	Upper
43	100		
58	25.9	22.9	34.3

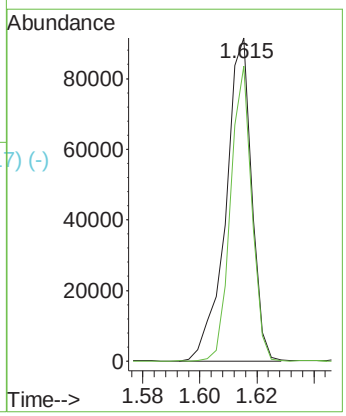


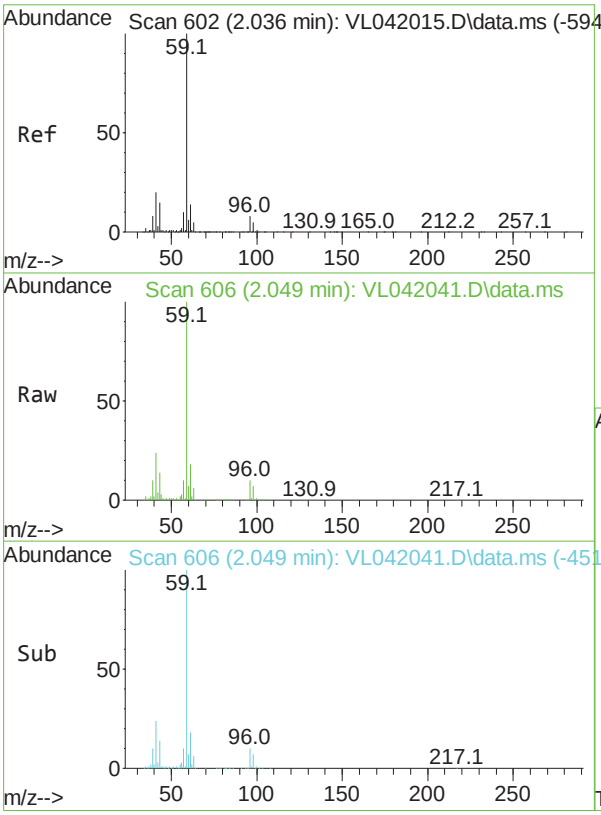


#16
1,3-Butadiene
Concen: 4.574 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 39 Resp: 57707

Ion	Ratio	Lower	Upper
39	100		
54	74.5	59.4	89.2



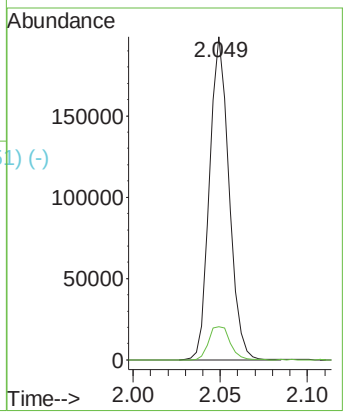


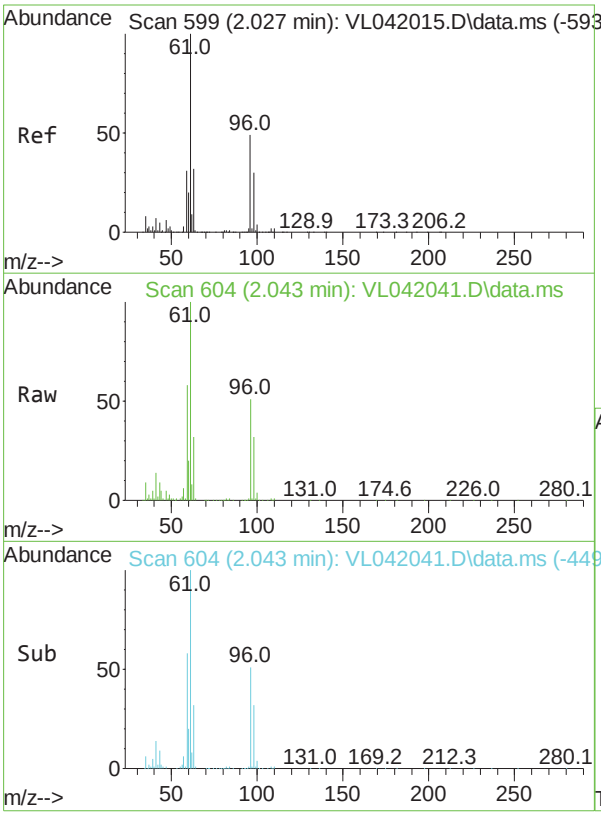
#17
tert-Butyl alcohol
Concen: 4.651 ppbv
RT: 2.049 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 153073

Ion	Ratio	Lower	Upper
59	100		
57	11.6	9.2	13.8

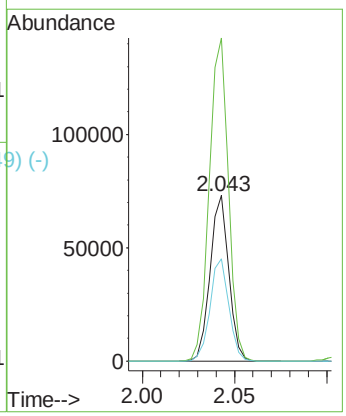


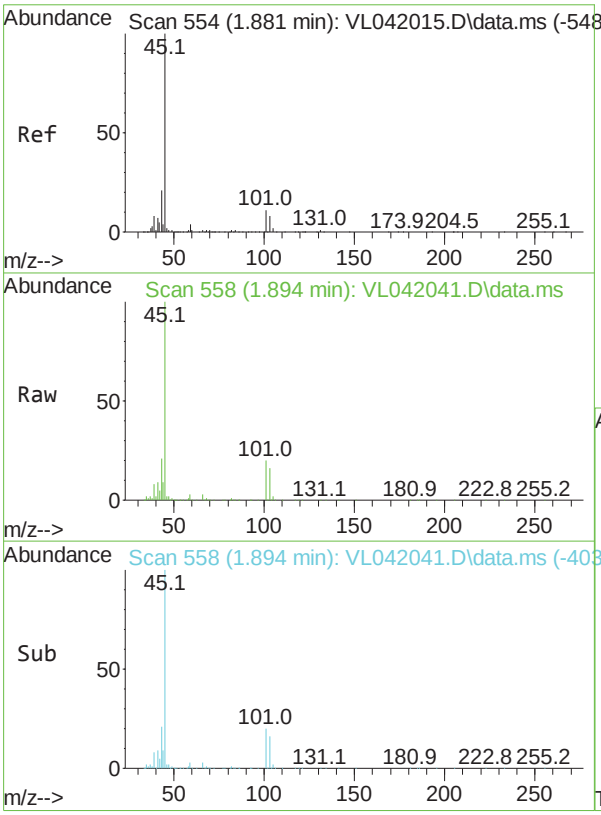


#18
1,1-Dichloroethene
Concen: 4.954 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 96 Resp: 51534

Ion	Ratio	Lower	Upper
96	100		
61	195.0	163.5	245.3
98	61.8	49.4	74.0



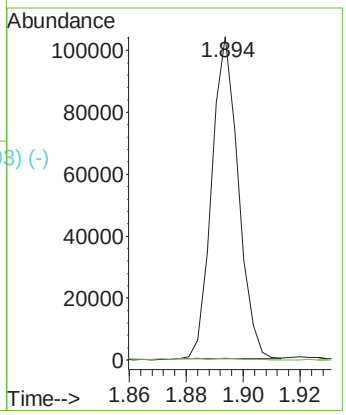


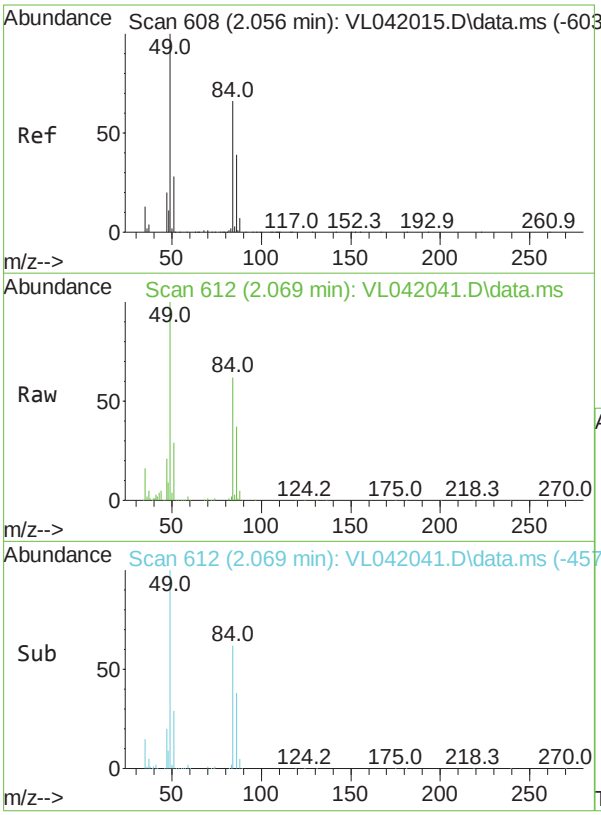
#19
Isopropyl Alcohol
Concen: 4.522 ppbv
RT: 1.894 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 67445

Ion	Ratio	Lower	Upper
45	100		
58	44.1	36.2	54.4

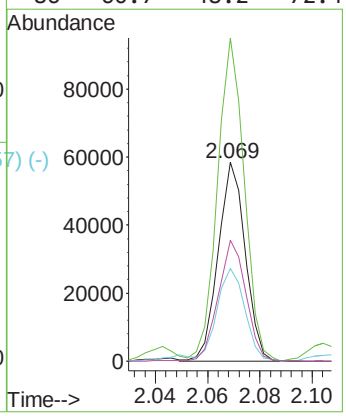


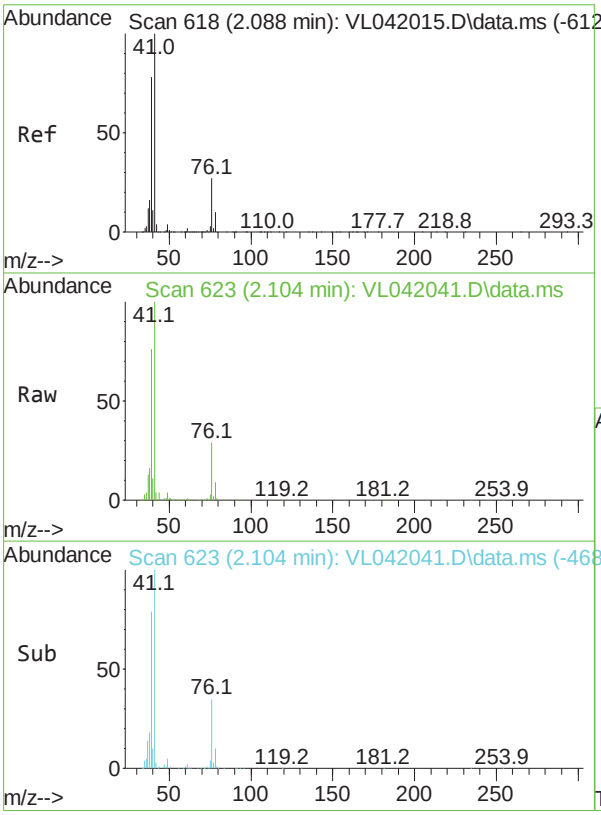


#20
Methylene Chloride
Concen: 4.195 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 84 Resp: 41998

Ion	Ratio	Lower	Upper
84	100		
49	162.5	121.0	181.4
51	46.7	35.1	52.7
86	60.7	48.2	72.4



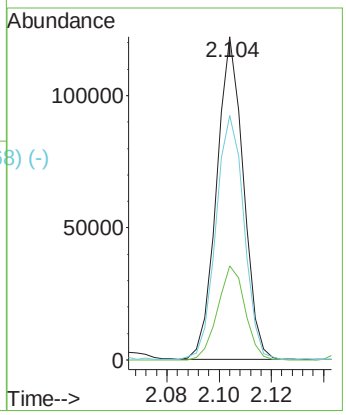


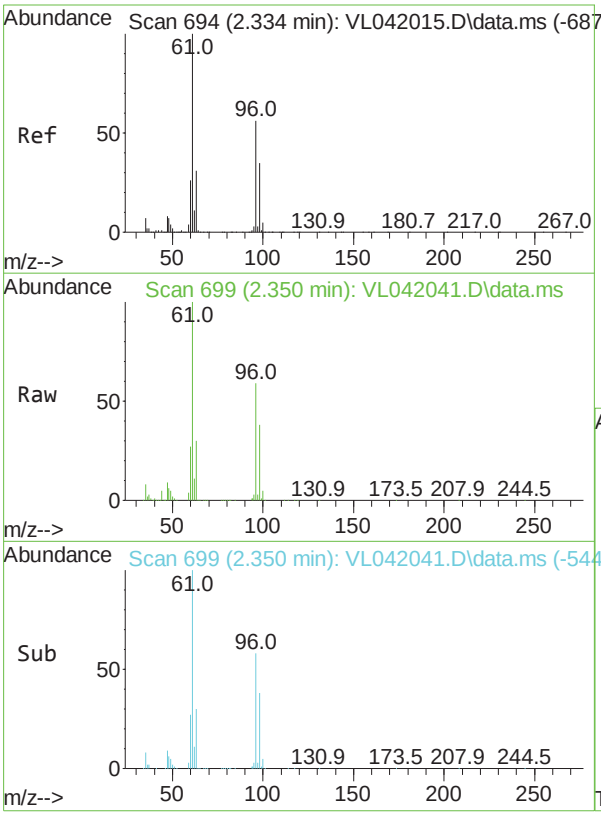
#21
Allyl Chloride
Concen: 4.504 ppbv
RT: 2.104 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 86723

Ion	Ratio	Lower	Upper
41	100		
76	29.7	23.7	35.5
39	79.7	63.0	94.6

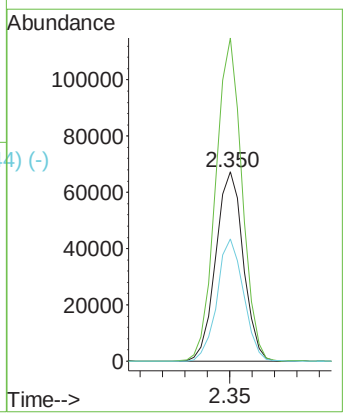


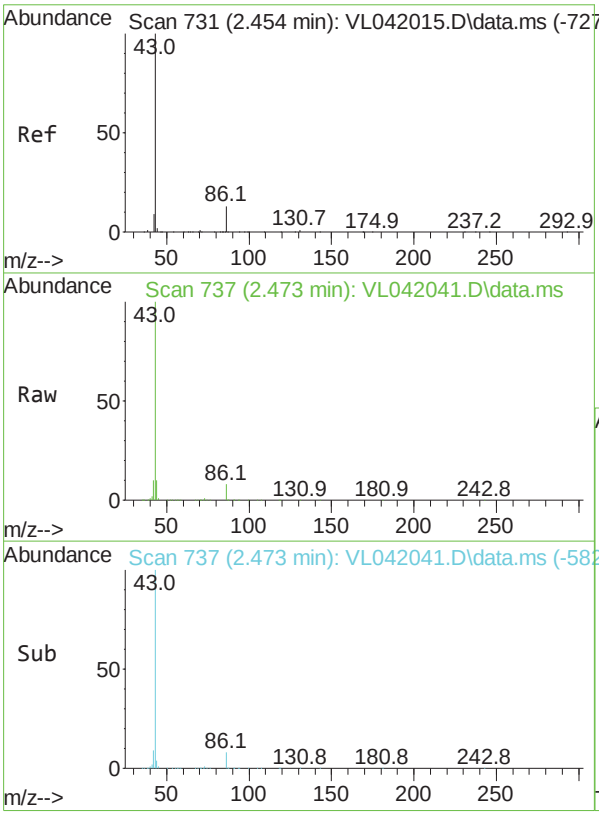


#22
trans-1,2-Dichloroethene
Concen: 5.104 ppbv
RT: 2.350 min Scan# 699
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 96 Resp: 57617

Ion	Ratio	Lower	Upper
96	100		
61	170.8	142.3	213.5
98	64.7	50.2	75.2



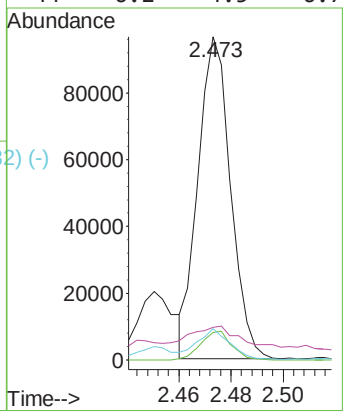


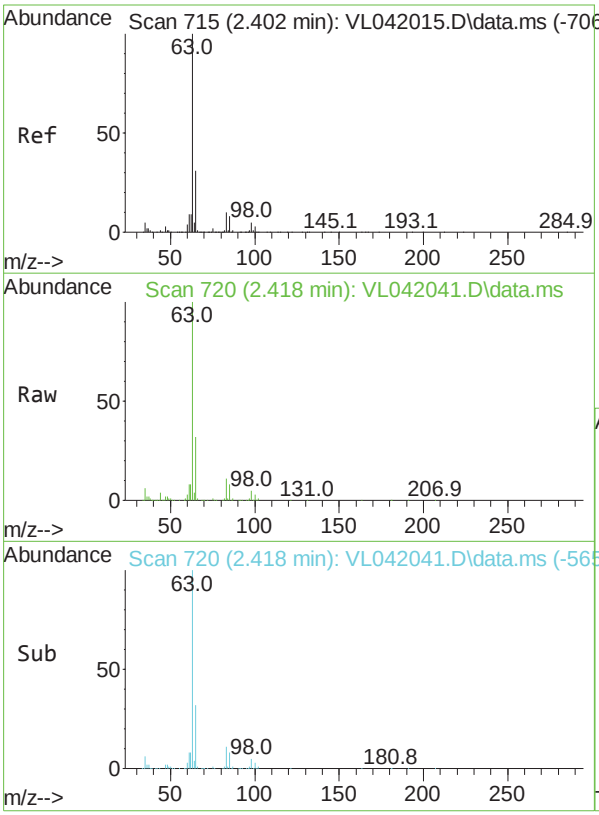
#23
Vinyl Acetate
Concen: 5.823 ppbv
RT: 2.473 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 83866

Ion	Ratio	Lower	Upper
43	100		
86	8.7	8.1	12.1
42	9.5	7.5	11.3
44	6.2	4.5	6.7

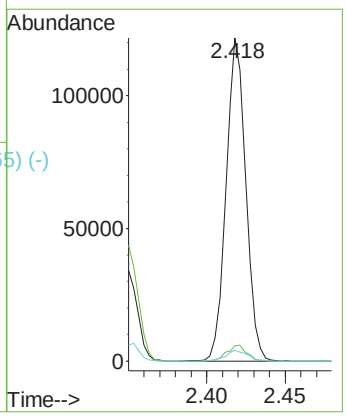


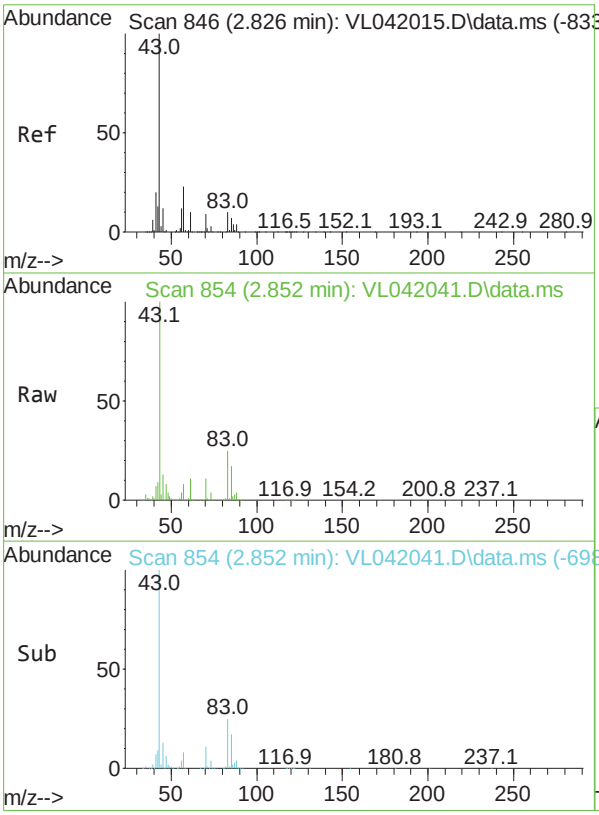


#24
1,1-Dichloroethane
Concen: 4.704 ppbv
RT: 2.418 min Scan# 720
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 63 Resp: 107817

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.4	7.2
100	3.3	1.6	4.8



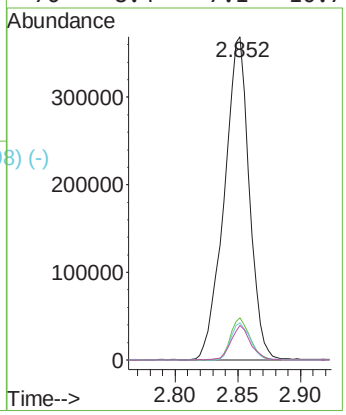


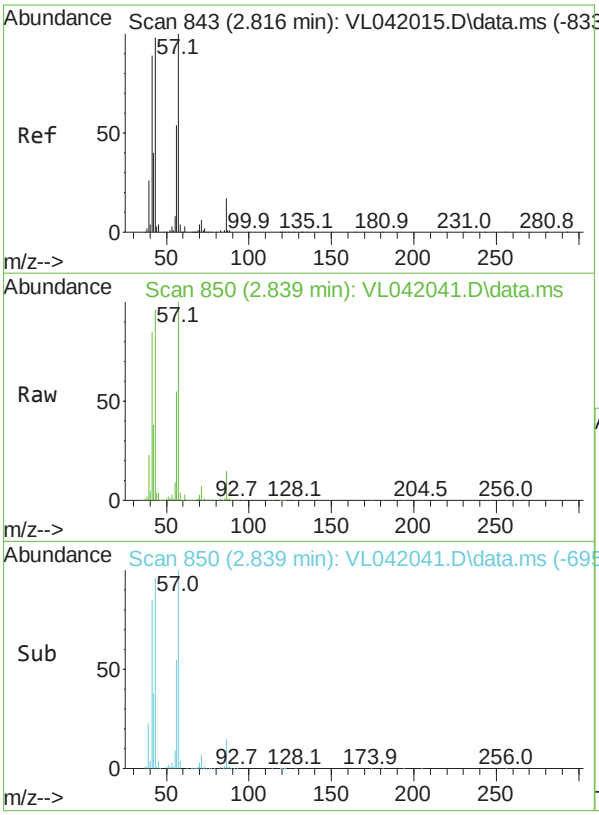
#25
Ethyl Acetate
Concen: 7.007 ppbv
RT: 2.852 min Scan
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 511505

Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.0	7.5	11.3
70	8.4	7.1	10.7

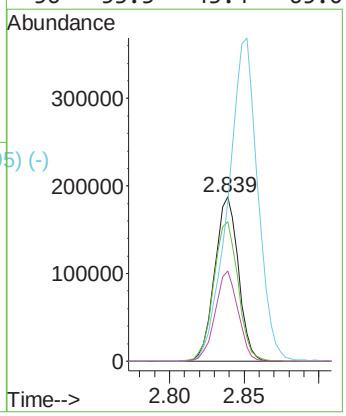


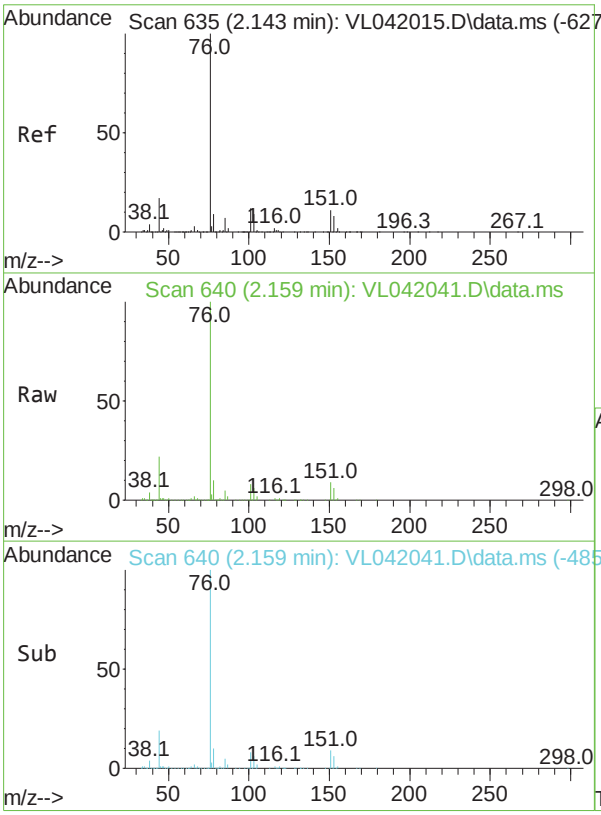


#26
Hexane
Concen: 7.052 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 57 Resp: 206577

Ion	Ratio	Lower	Upper
57	100		
41	88.3	73.2	109.8
43	249.2	200.8	301.2
56	53.3	43.4	65.0



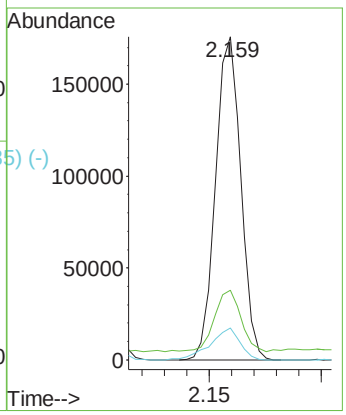


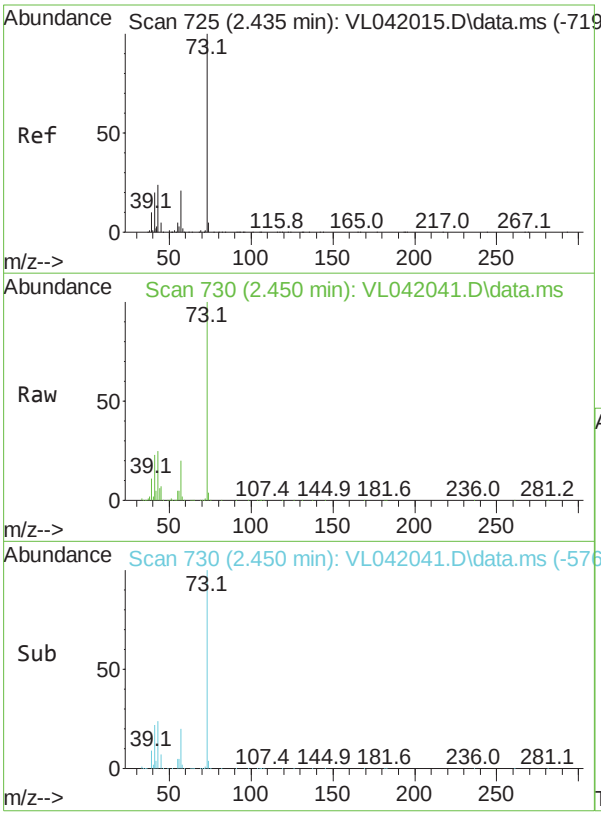
#27
Carbon Disulfide
Concen: 5.008 ppbv
RT: 2.159 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 76 Resp: 137978

Ion	Ratio	Lower	Upper
76	100		
44	20.2	18.1	27.1
78	11.7	9.5	14.3

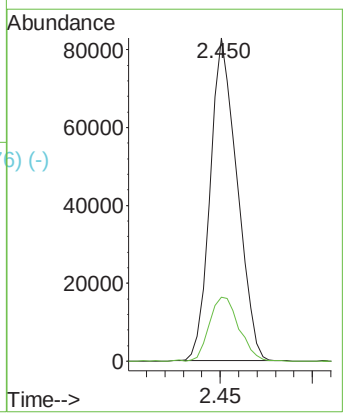


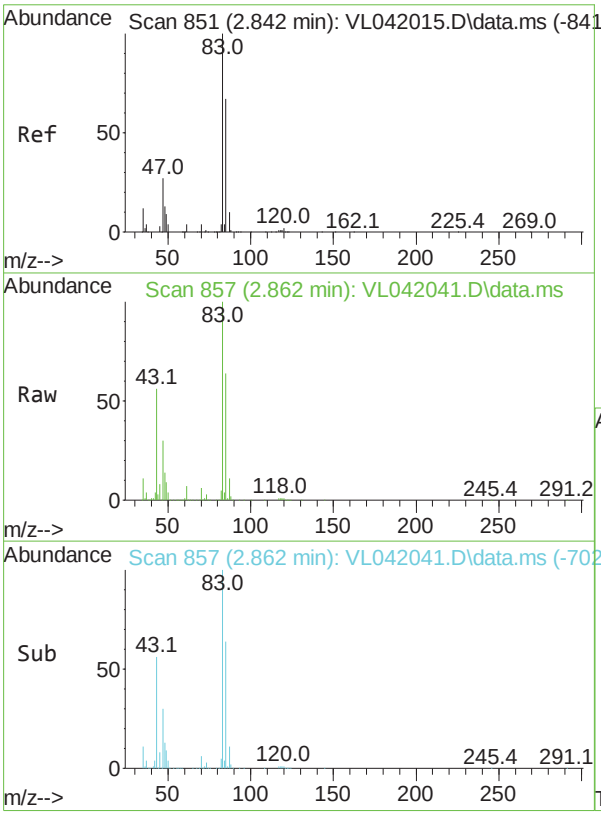


#28
Methyl tert-Butyl Ether
Concen: 4.696 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 73 Resp: 84091

Ion	Ratio	Lower	Upper
73	100		
57	22.1	18.3	27.5



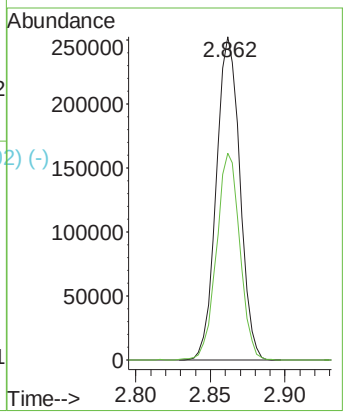


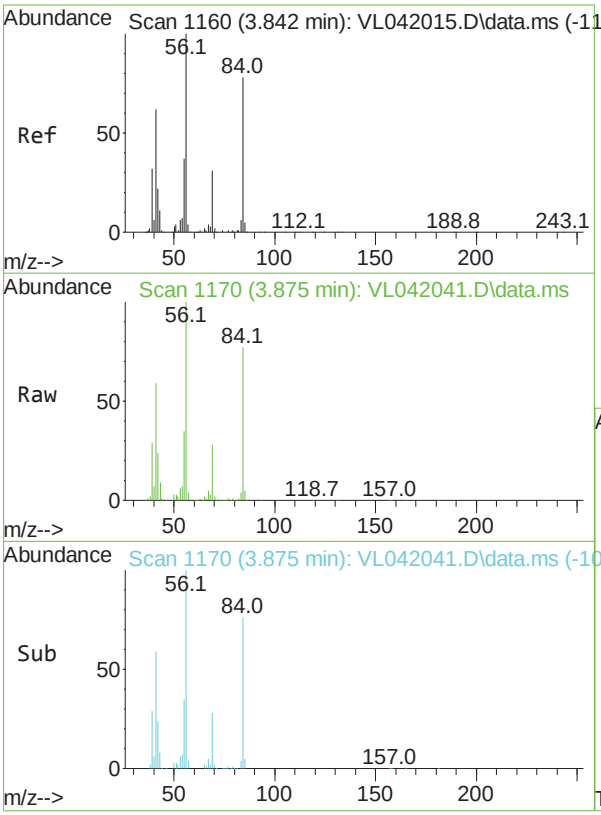
#29
Chloroform
Concen: 6.538 ppbv
RT: 2.862 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 277411

Ion	Ratio	Lower	Upper
83	100		
85	64.0	53.8	80.6

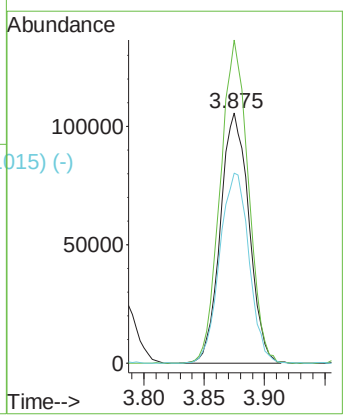


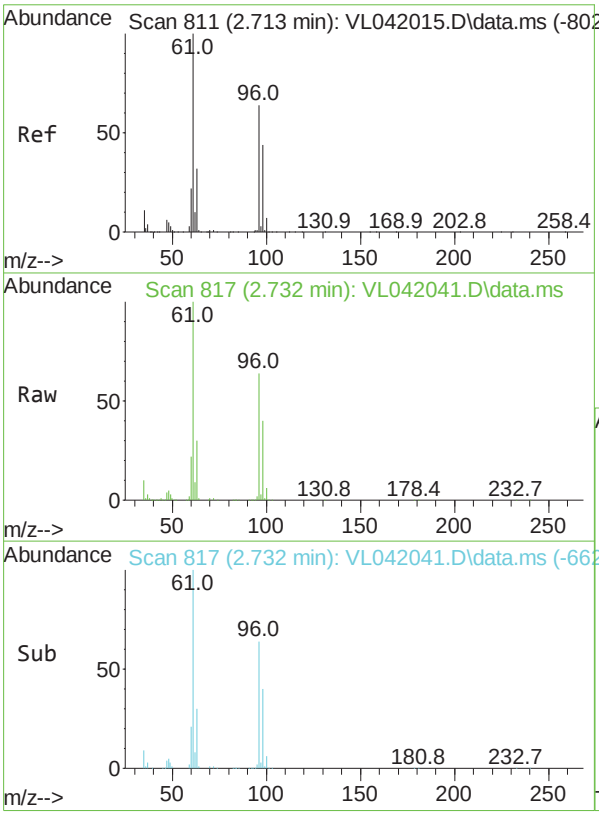


#30
Cyclohexane
Concen: 7.295 ppbv
RT: 3.875 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 84 Resp: 173351

Ion	Ratio	Lower	Upper
84	100		
56	126.9	99.5	149.3
41	78.2	62.2	93.2



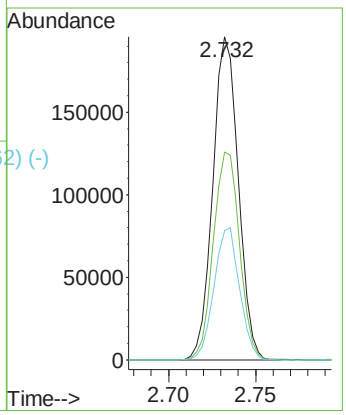


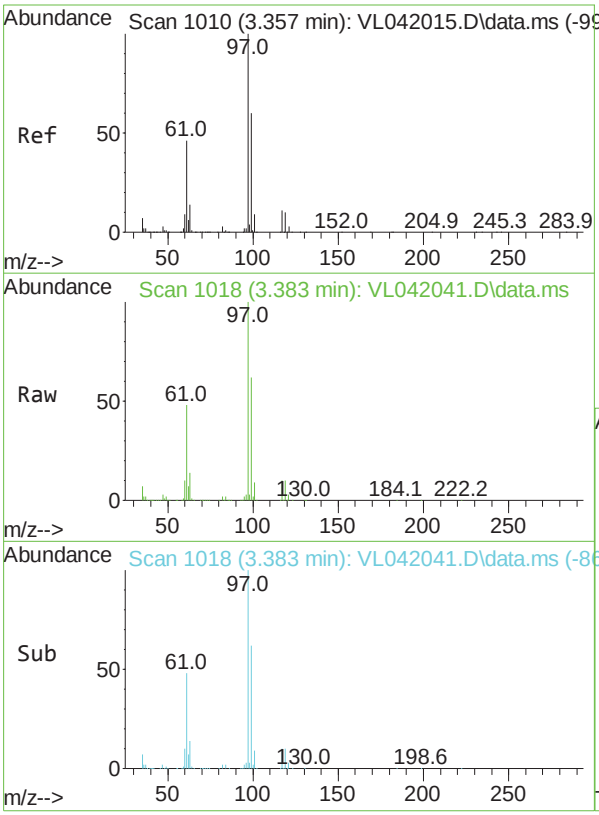
#31
cis-1,2-Dichloroethene
Concen: 6.886 ppbv
RT: 2.732 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 61 Resp: 199354

Ion	Ratio	Lower	Upper
61	100		
96	64.4	51.6	77.4
98	40.0	34.8	52.2

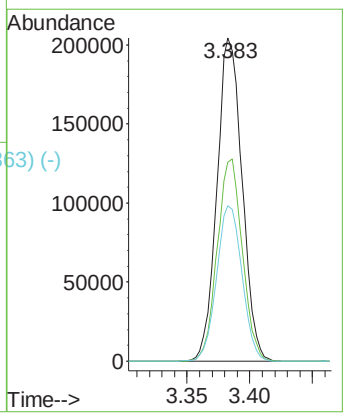


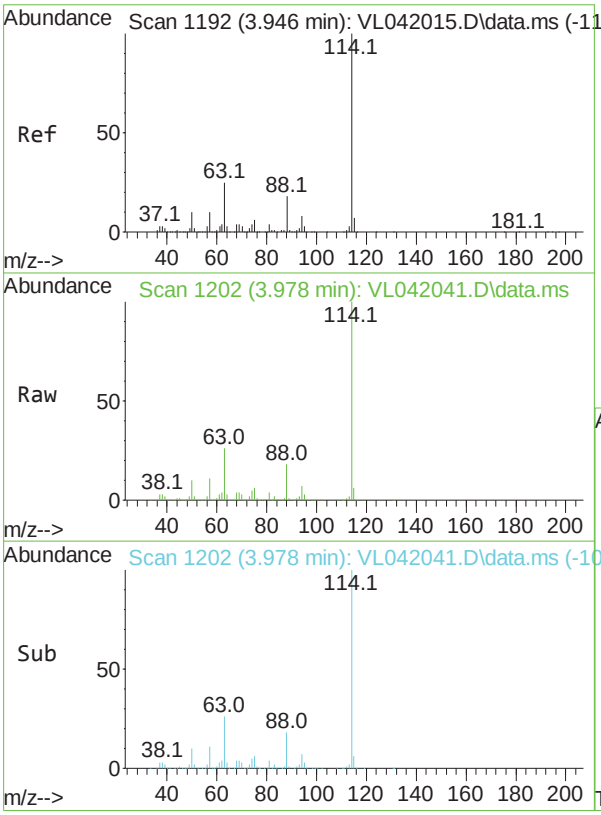


#32
1,1,1-Trichloroethane
Concen: 6.064 ppbv
RT: 3.383 min Scan# 1018
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 97 Resp: 285335

Ion	Ratio	Lower	Upper
97	100		
99	62.2	51.0	76.4
61	48.6	37.9	56.9



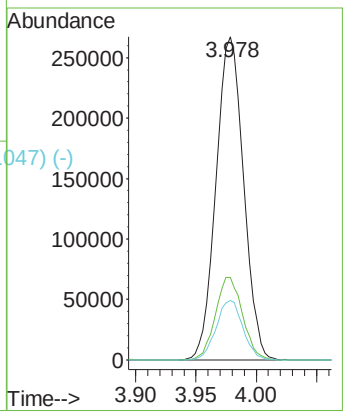


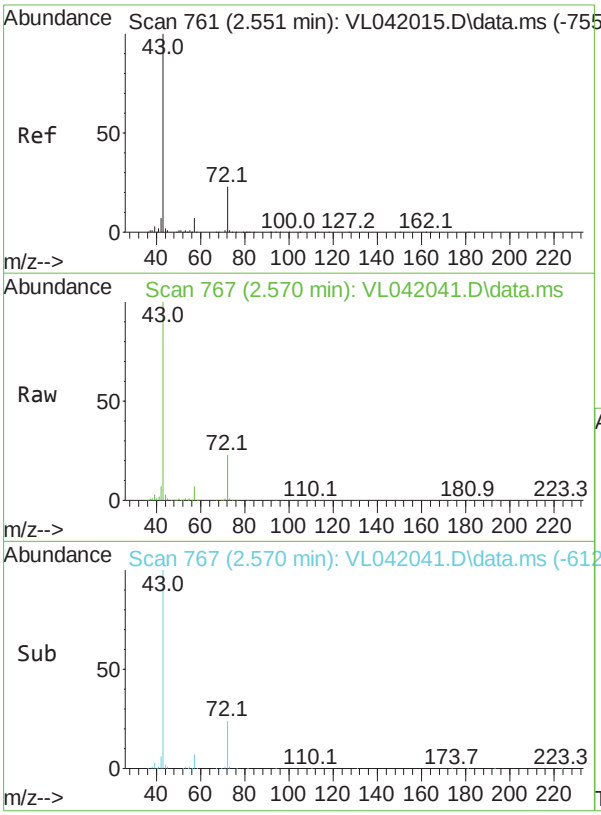
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:114 Resp: 422655

Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.2
88	17.9	14.4	21.6

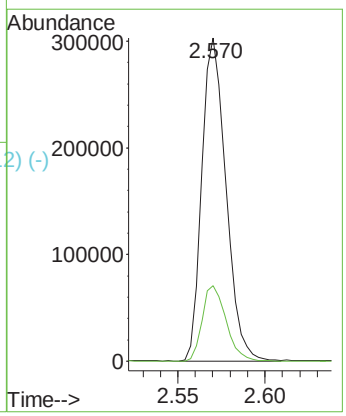


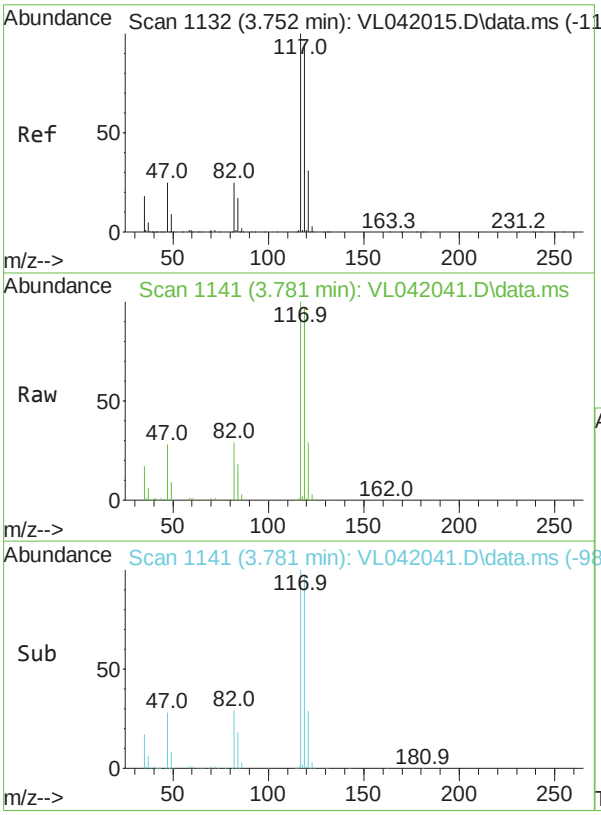


#34
2-Butanone
Concen: 8.043 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 43 Resp: 292449

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.3	27.5



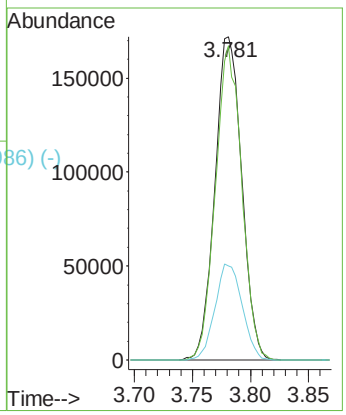


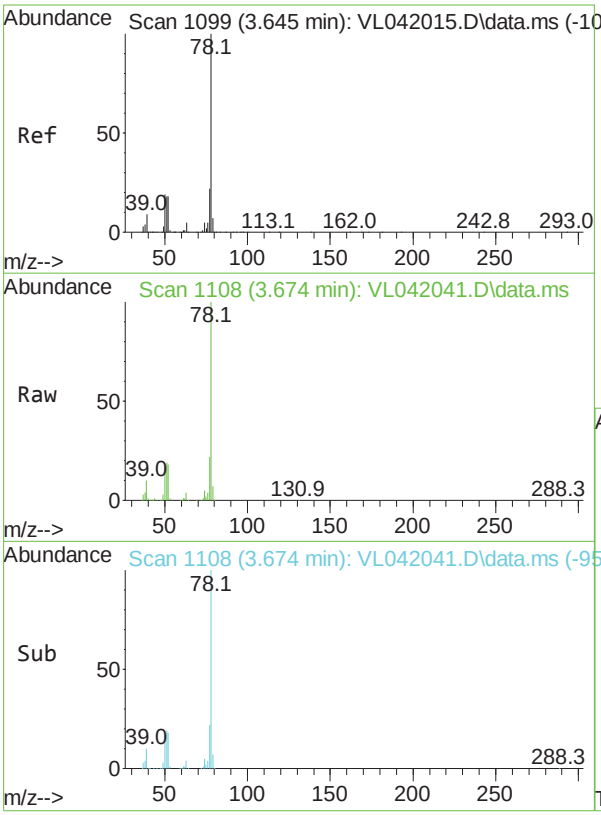
#35
Carbon Tetrachloride
Concen: 6.741 ppbv
RT: 3.781 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 276677

Ion	Ratio	Lower	Upper
117	100		
119	97.3	75.8	113.6
121	29.2	24.6	36.8

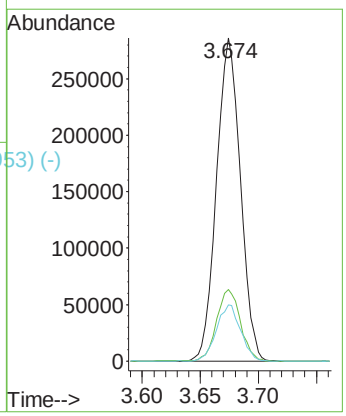


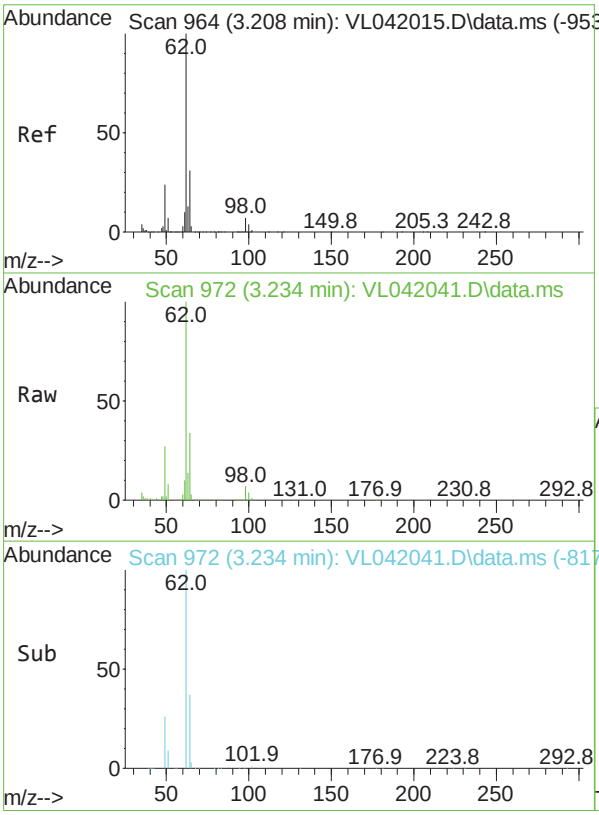


#36
Benzene
Concen: 7.999 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 78 Resp: 409501

Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.0	27.0
50	17.4	15.2	22.8



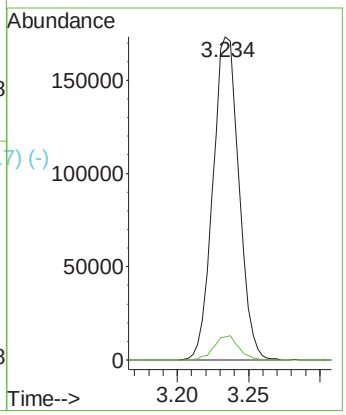


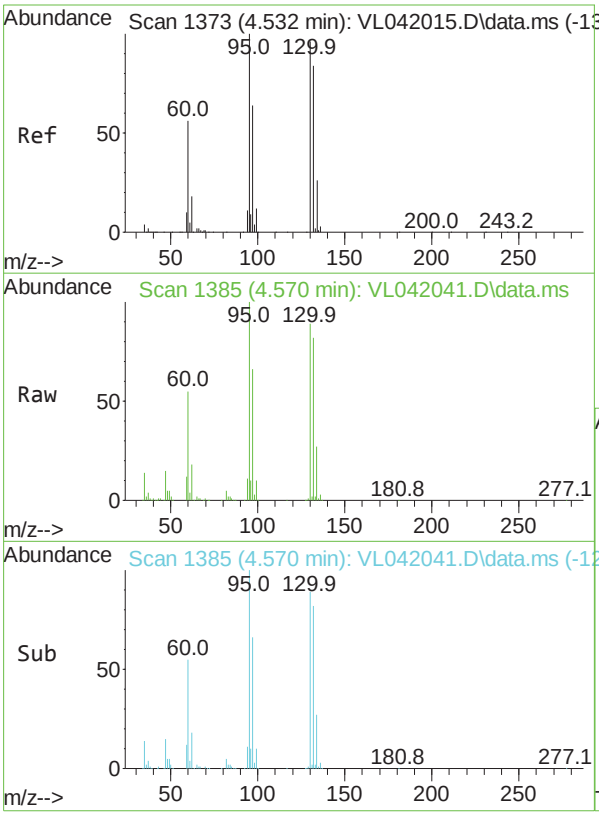
#37
1,2-Dichloroethane
Concen: 7.543 ppbv
RT: 3.234 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 219829

Ion	Ratio	Lower	Upper
62	100		
98	7.1	5.7	8.5

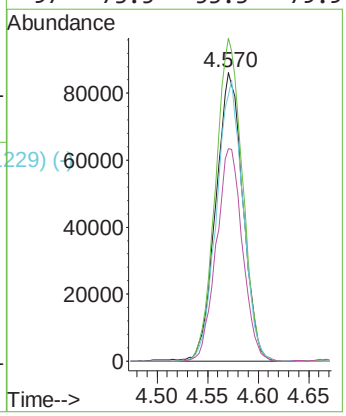


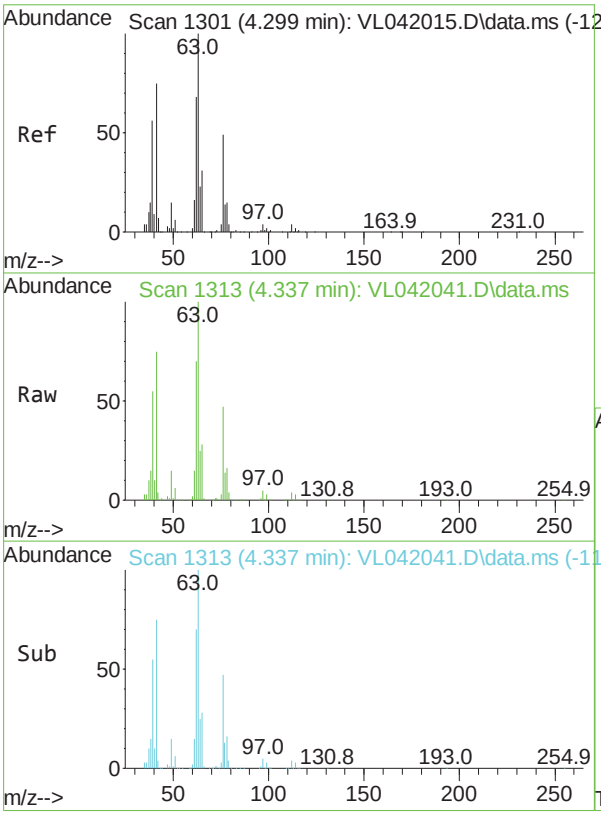


#38
Trichloroethene
Concen: 7.689 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:130 Resp: 159933

Ion	Ratio	Lower	Upper
130	100		
95	111.9	82.8	124.2
132	92.2	70.0	105.0
97	73.5	53.3	79.9



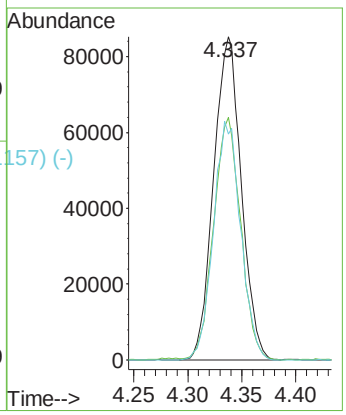


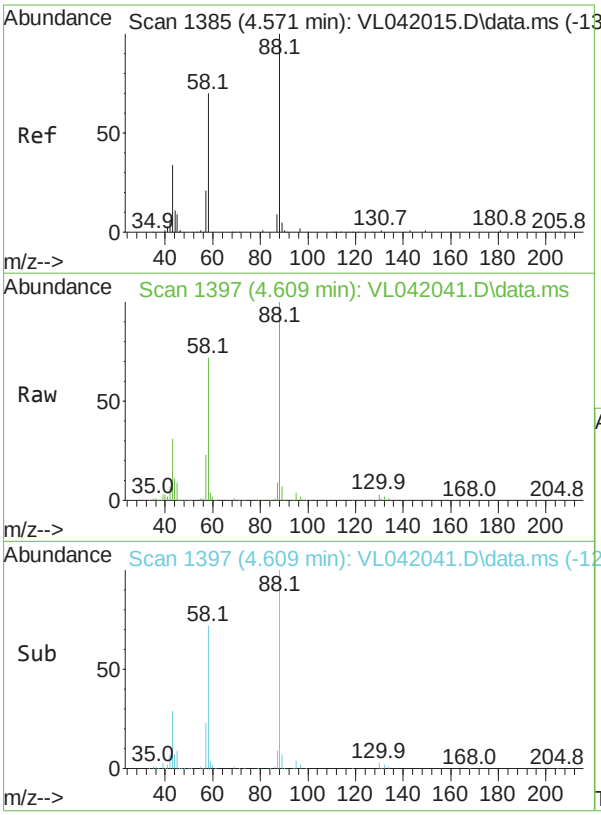
#39
1,2-Dichloropropane
Concen: 8.047 ppbv
RT: 4.337 min Scan
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 63 Resp: 151036

Ion	Ratio	Lower	Upper
63	100		
41	75.1	60.1	90.1
62	69.8	54.0	81.0

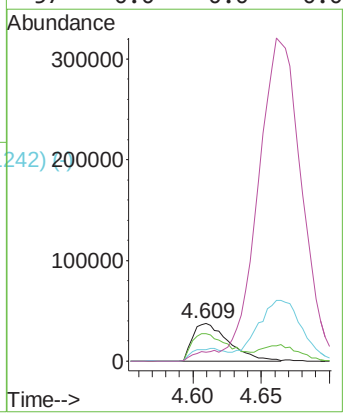


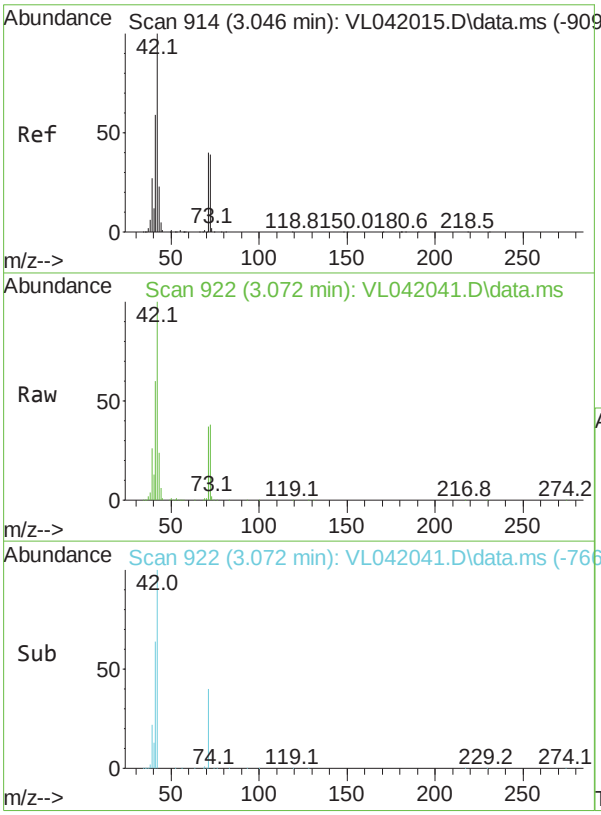


#40
1,4-Dioxane
Concen: 7.105 ppbv
RT: 4.609 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 88 Resp: 69399

Ion	Ratio	Lower	Upper
88	100		
58	78.3	58.1	87.1
43	0.0	27.3	40.9#
57	0.0	0.0	0.0



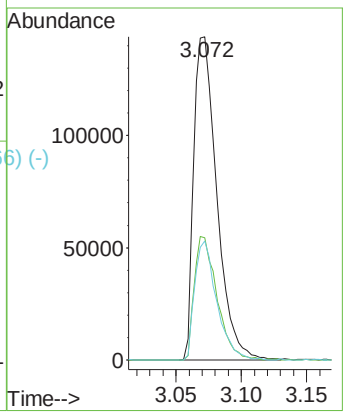


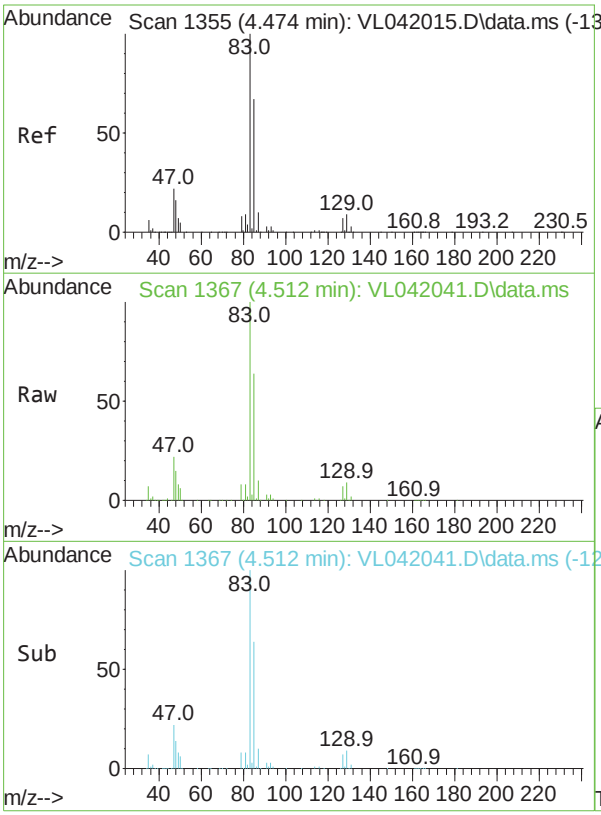
#41
Tetrahydrofuran
Concen: 8.509 ppbv
RT: 3.072 min Scan
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 42 Resp: 176830

Ion	Ratio	Lower	Upper
42	100		
72	37.7	32.3	48.5
71	35.3	30.9	46.3

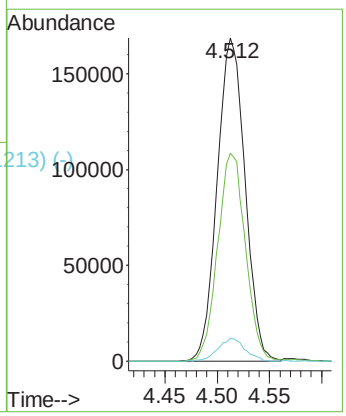


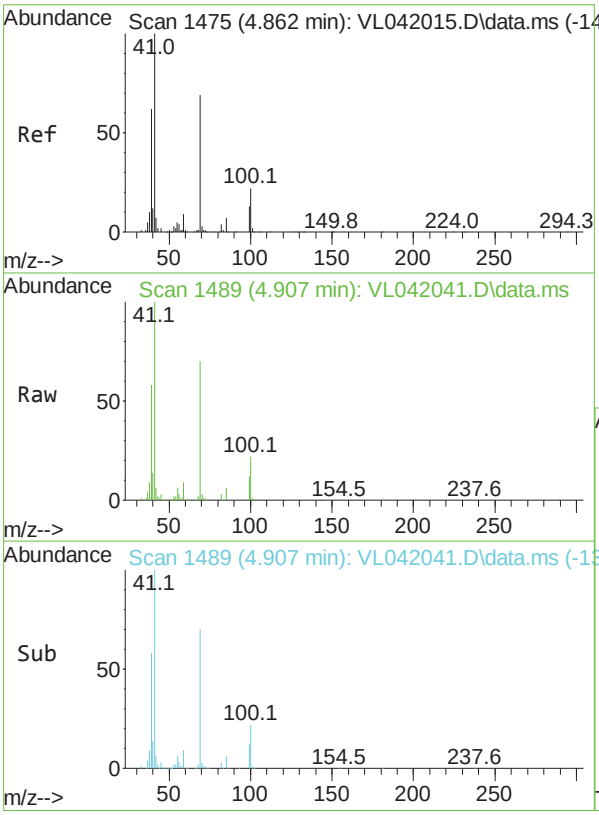


#42
Bromodichloromethane
Concen: 7.908 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 83 Resp: 312250

Ion	Ratio	Lower	Upper
83	100		
85	64.3	53.3	79.9
127	7.2	6.0	9.0



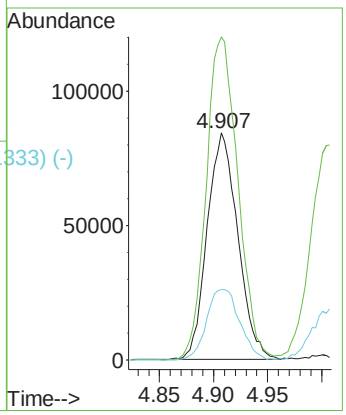


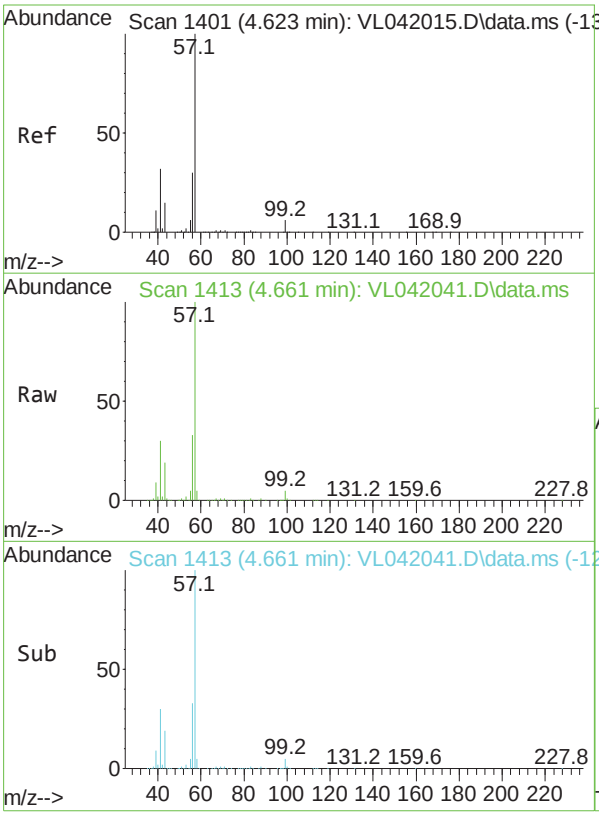
#43
Methyl Methacrylate
Concen: 7.091 ppbv
RT: 4.907 min Scan
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 165494

Ion	Ratio	Lower	Upper
69	100		
41	147.8	114.9	172.3
100	33.7	28.8	43.2

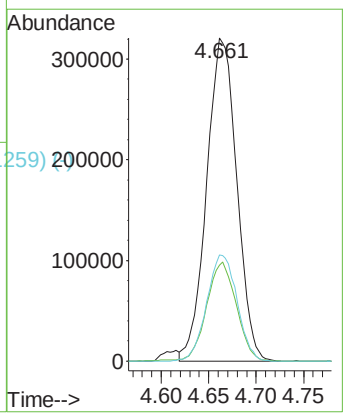


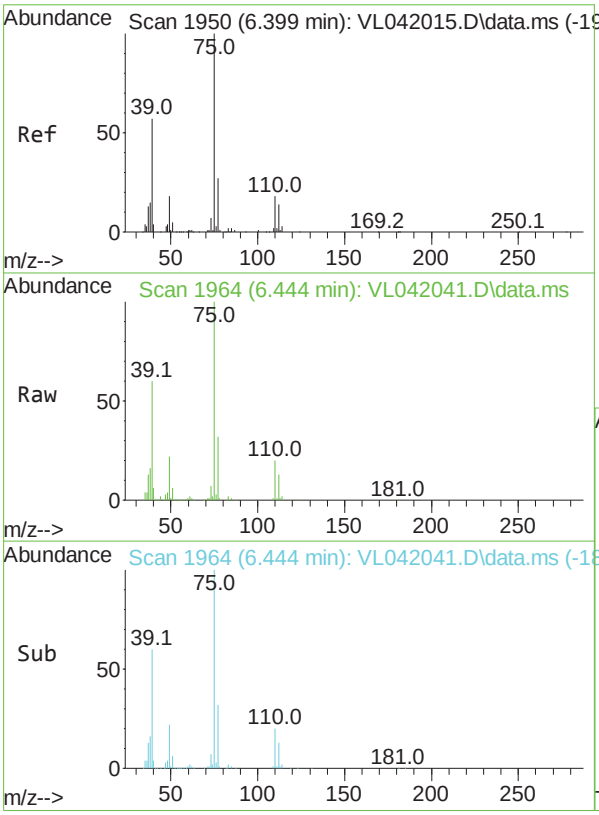


#44
2,2,4-Trimethylpentane
Concen: 8.122 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 57 Resp: 705920

Ion	Ratio	Lower	Upper
57	100		
41	30.5	25.9	38.9
56	33.1	24.9	37.3



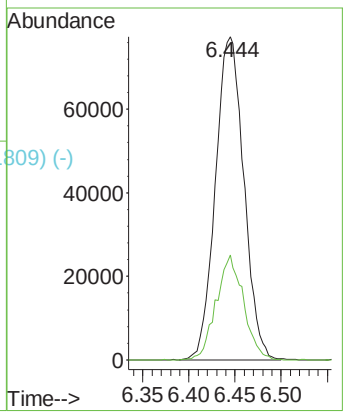


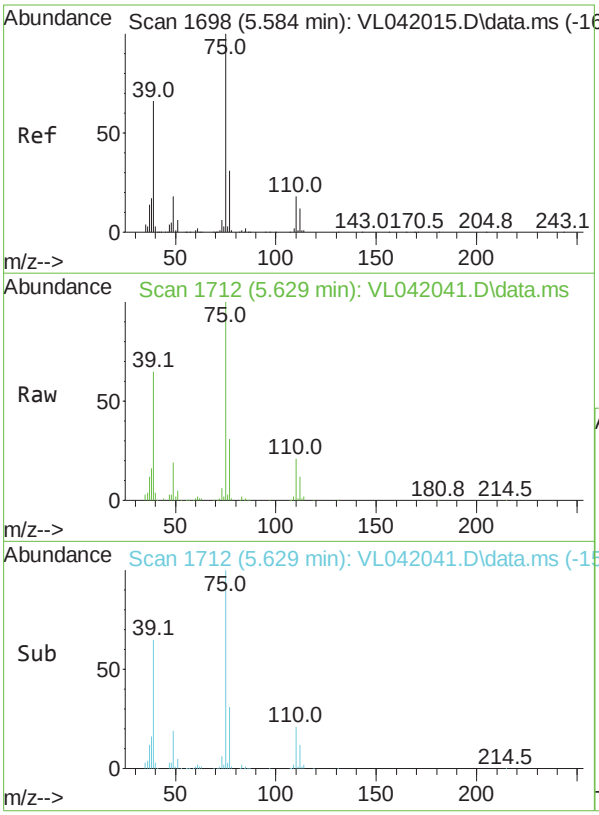
#45
t-1,3-Dichloropropene
Concen: 7.544 ppbv
RT: 6.444 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 166207

Ion	Ratio	Lower	Upper
75	100		
77	32.4	22.1	33.1

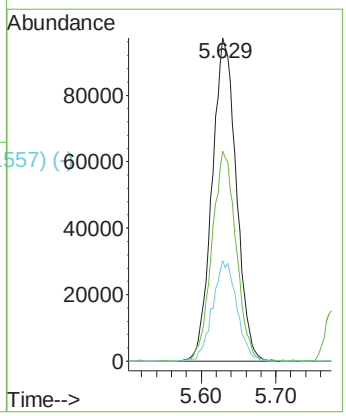


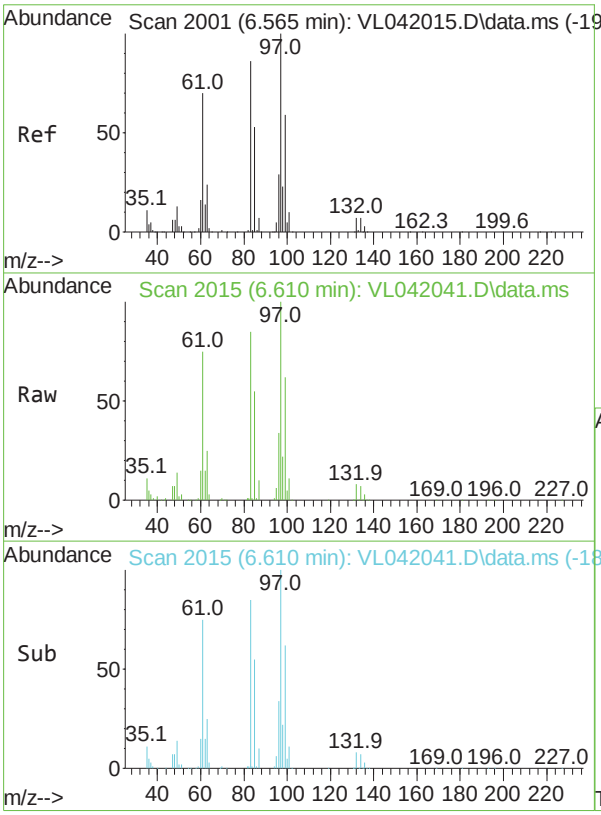


#46
cis-1,3-Dichloropropene
Concen: 7.809 ppbv
RT: 5.629 min Scan# 1712
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 75 Resp: 218294

Ion	Ratio	Lower	Upper
75	100		
39	64.9	52.2	78.4
77	31.1	24.5	36.7



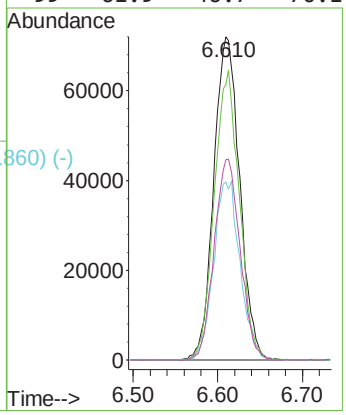


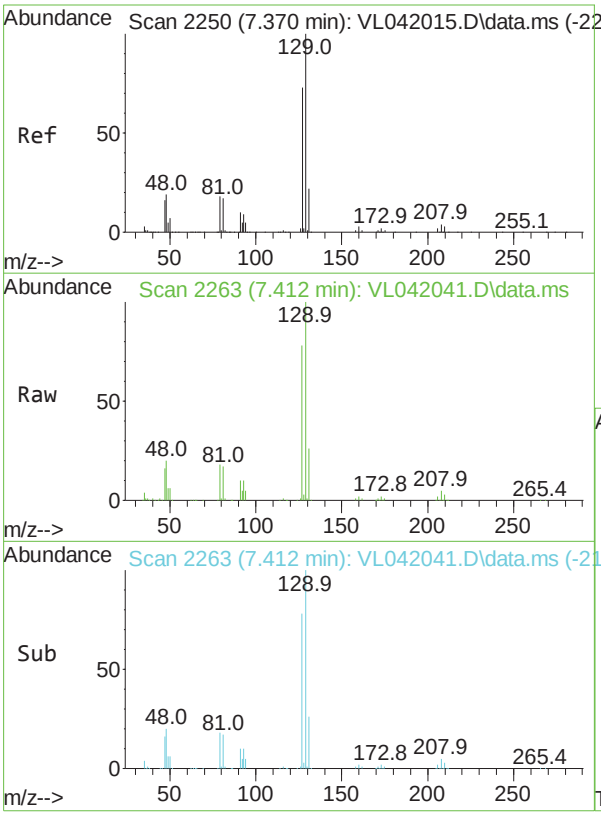
#47
1,1,2-Trichloroethane
Concen: 7.723 ppbv
RT: 6.610 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 97 Resp: 152556

Ion	Ratio	Lower	Upper
97	100		
83	85.1	68.6	102.8
85	55.0	42.2	63.4
99	61.9	46.7	70.1

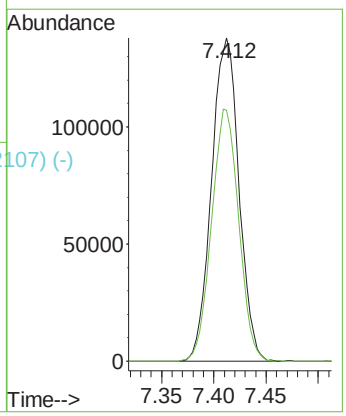


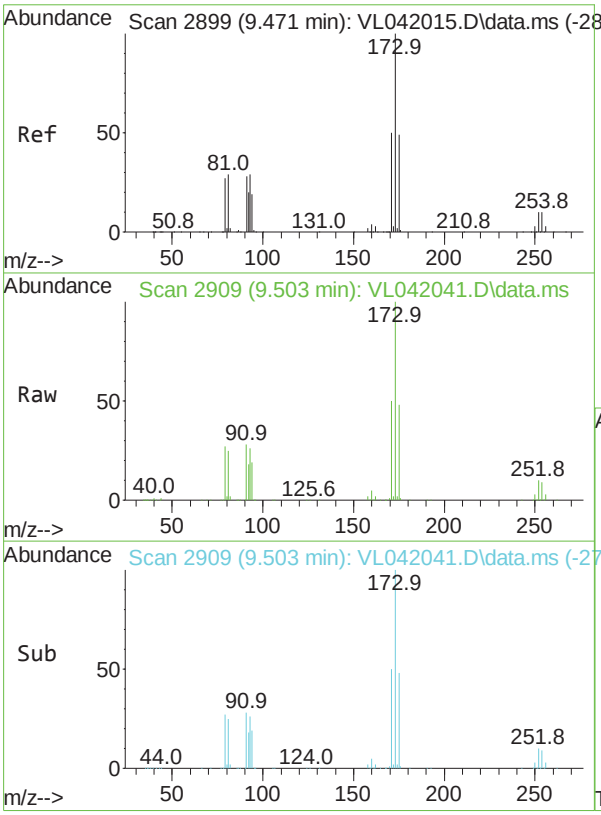


#48
Dibromochloromethane
Concen: 7.593 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:129 Resp: 251213

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.2	114.6



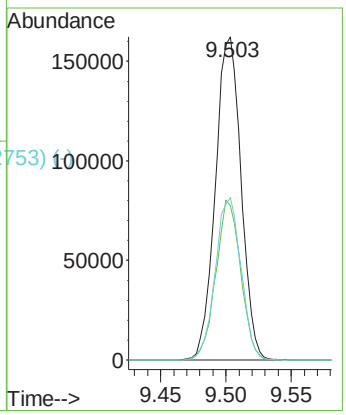


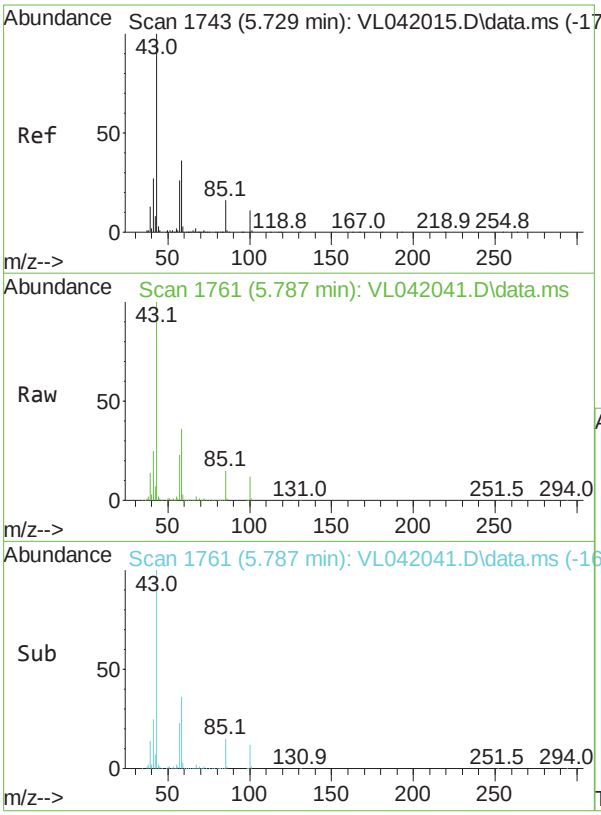
#49
Bromoform
Concen: 8.183 ppbv
RT: 9.503 min Scan
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:173 Resp: 222057

Ion	Ratio	Lower	Upper
173	100		
175	47.9	39.3	58.9
171	50.2	41.4	62.2

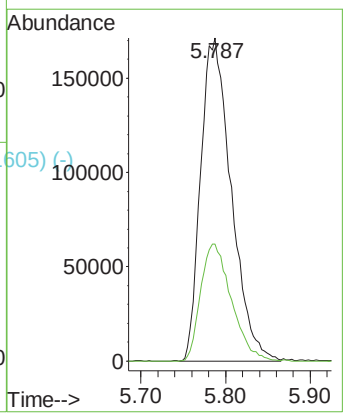


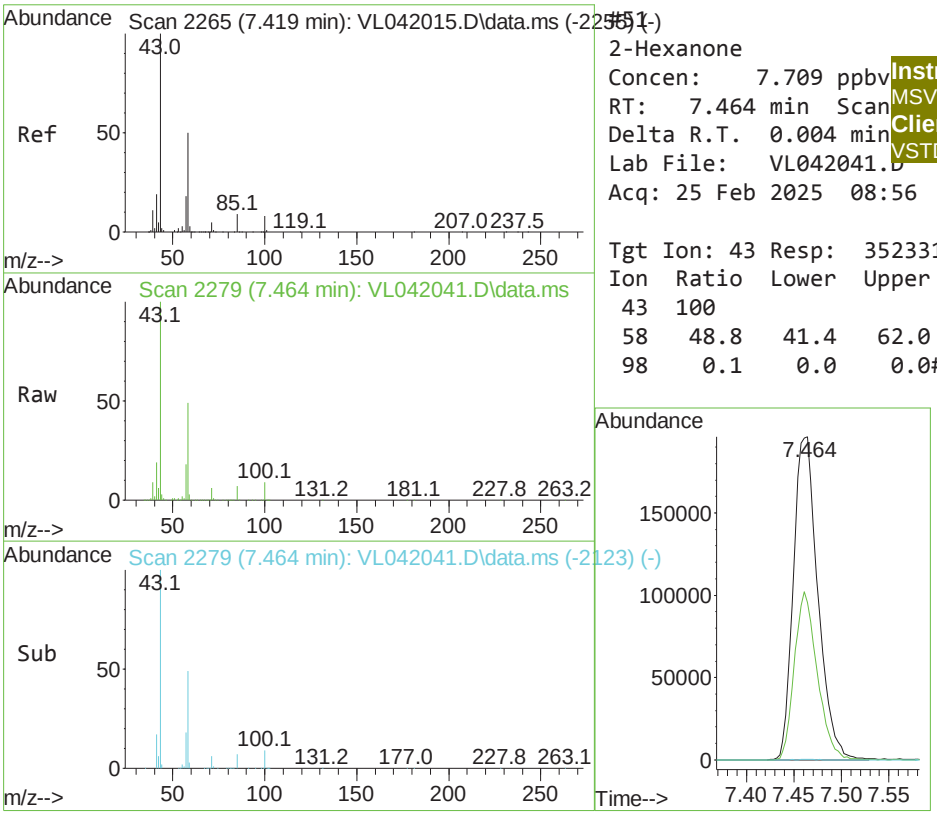


#50
4-Methyl-2-Pentanone
Concen: 7.666 ppbv
RT: 5.787 min Scan# 1761
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 43 Resp: 428434

Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.4	44.0



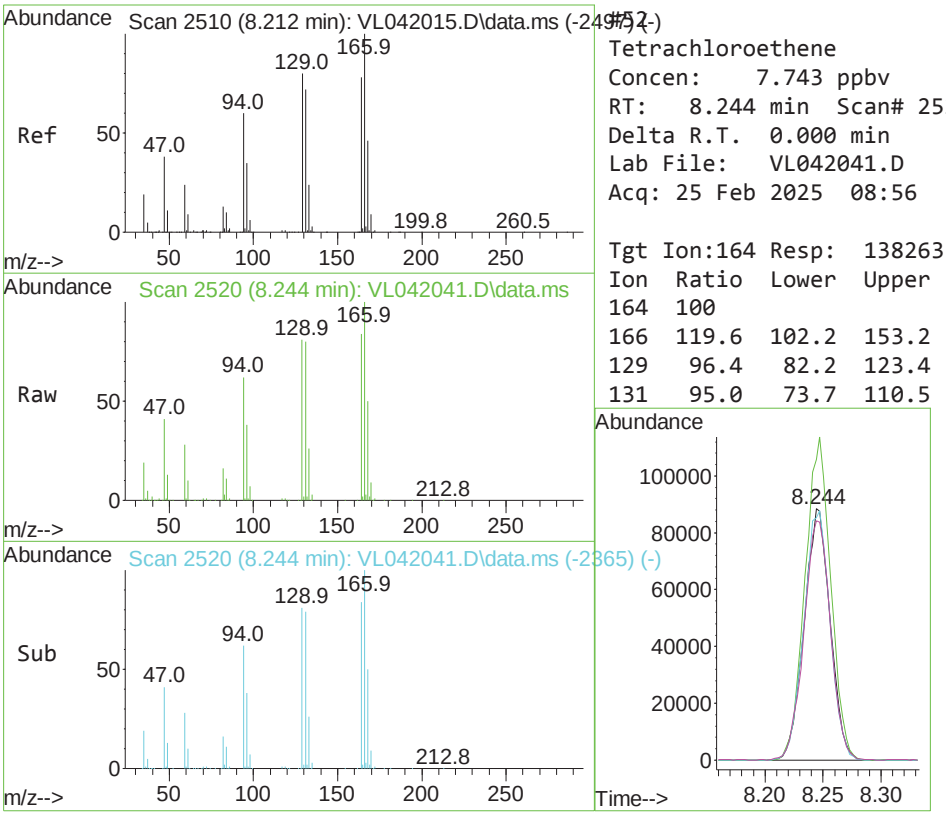


#51
2-Hexanone
Concen: 7.709 ppbv
RT: 7.464 min Scan
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 352331

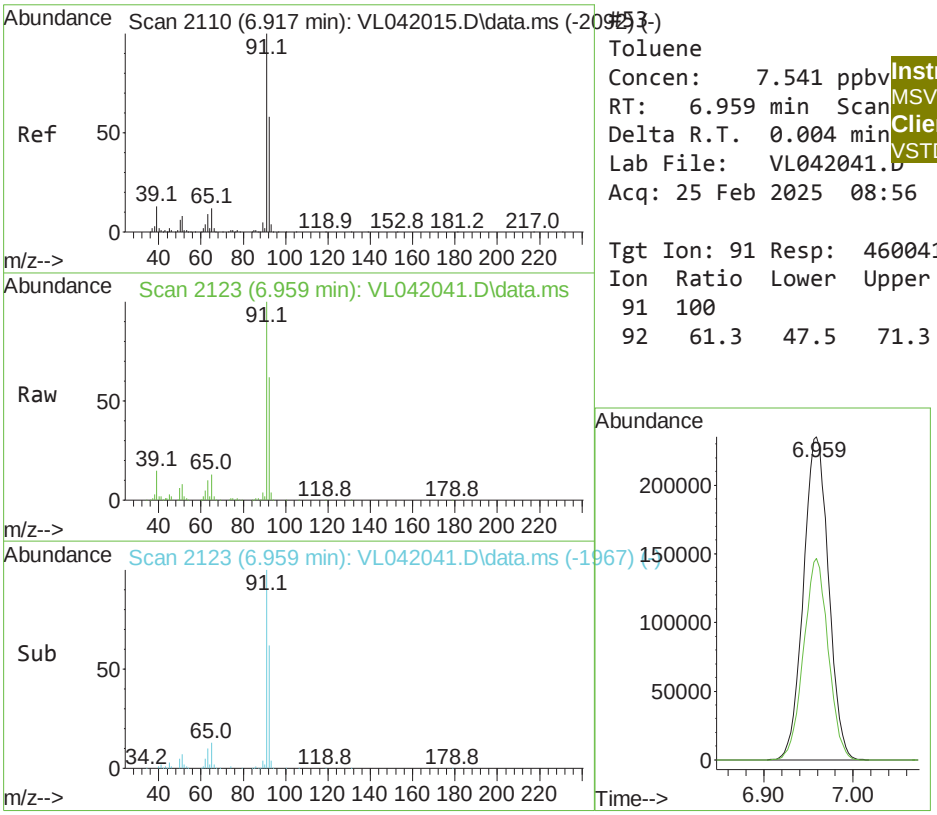
Ion	Ratio	Lower	Upper
43	100		
58	48.8	41.4	62.0
98	0.1	0.0	0.0#



#52
Tetrachloroethene
Concen: 7.743 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:164 Resp: 138263

Ion	Ratio	Lower	Upper
164	100		
166	119.6	102.2	153.2
129	96.4	82.2	123.4
131	95.0	73.7	110.5

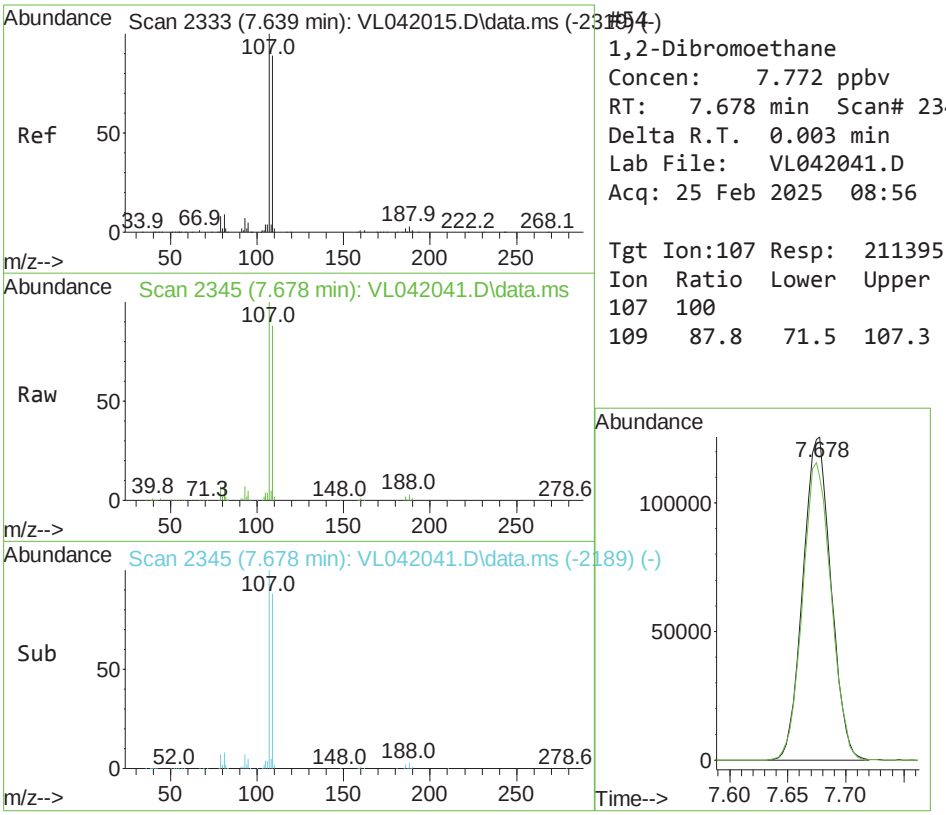


#53
Toluene
Concen: 7.541 ppbv
RT: 6.959 min Scan
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 460041

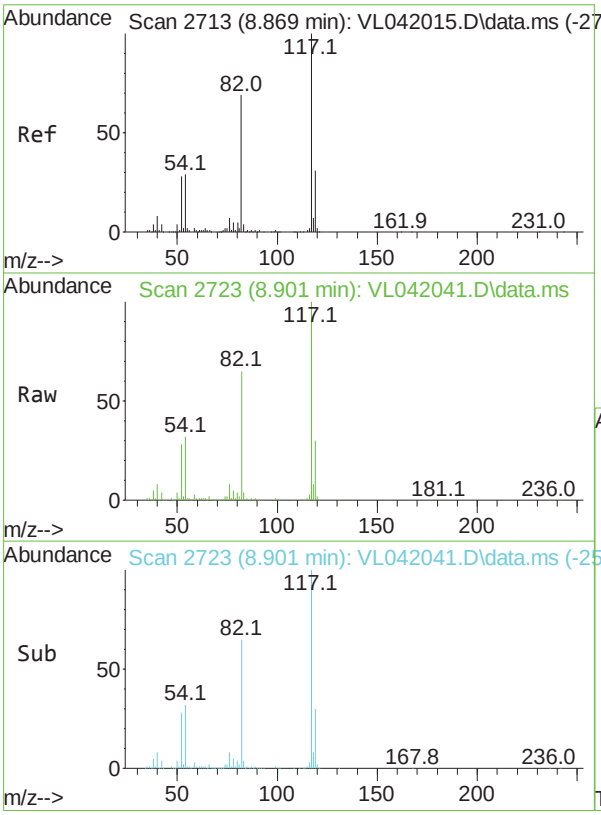
Ion	Ratio	Lower	Upper
91	100		
92	61.3	47.5	71.3



#54
1,2-Dibromoethane
Concen: 7.772 ppbv
RT: 7.678 min Scan# 2345
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:107 Resp: 211395

Ion	Ratio	Lower	Upper
107	100		
109	87.8	71.5	107.3

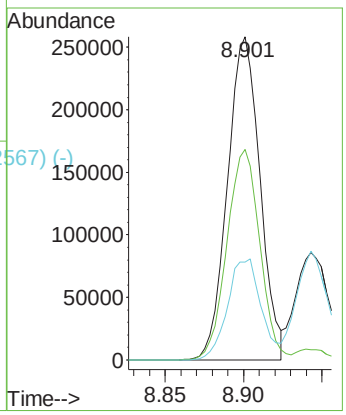


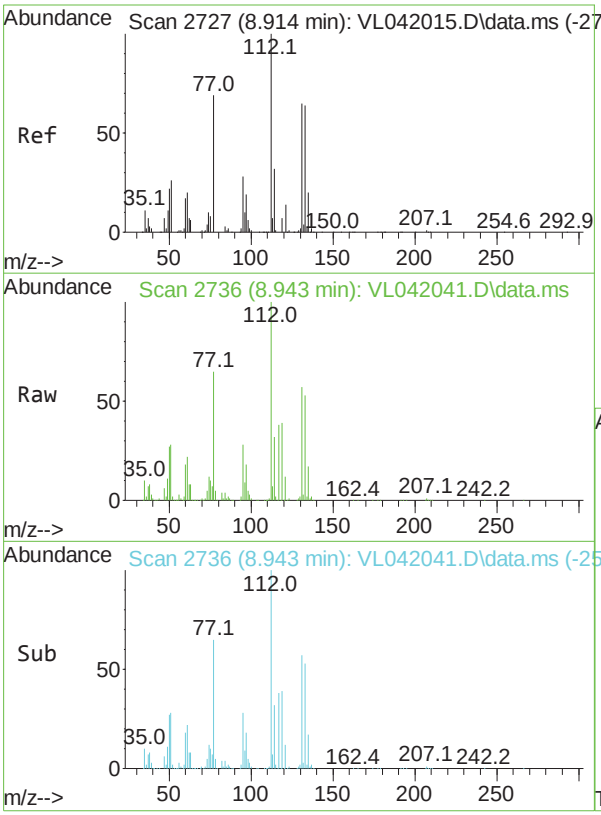
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 374249

Ion	Ratio	Lower	Upper
117	100		
82	68.8	55.7	83.5
119	32.4	25.2	37.8

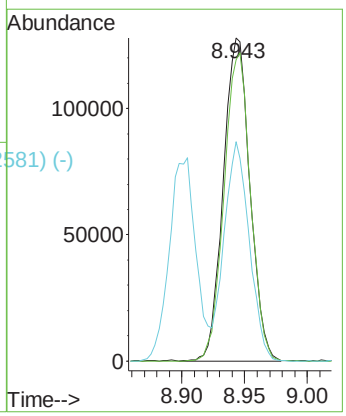


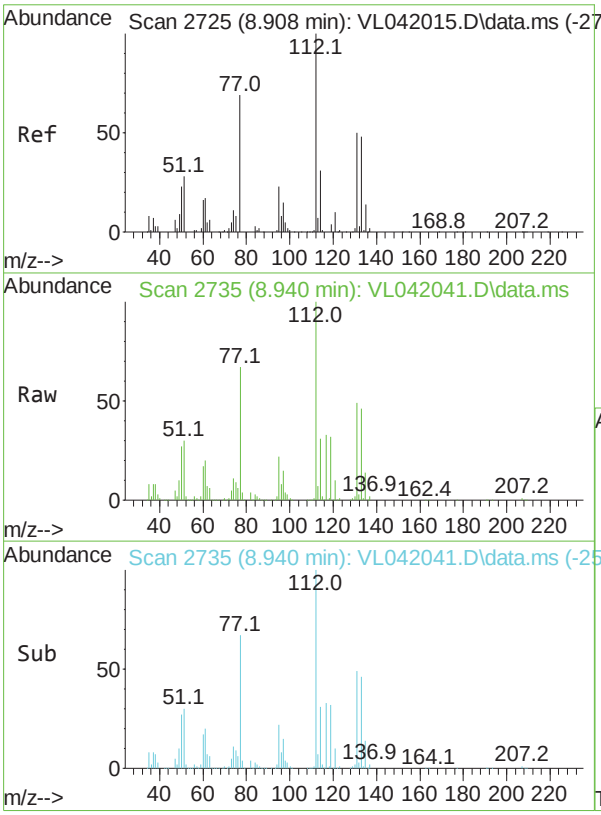


#56
1,1,1,2-Tetrachloroethane
Concen: 7.049 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:131 Resp: 188811

Ion	Ratio	Lower	Upper
131	100		
133	94.8	77.8	116.8
119	65.1	49.1	73.7



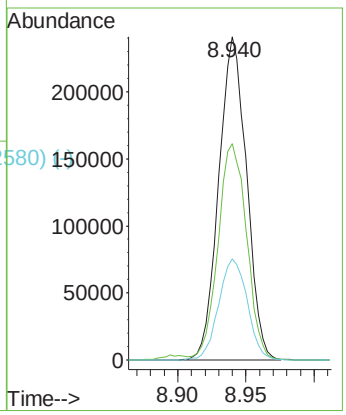


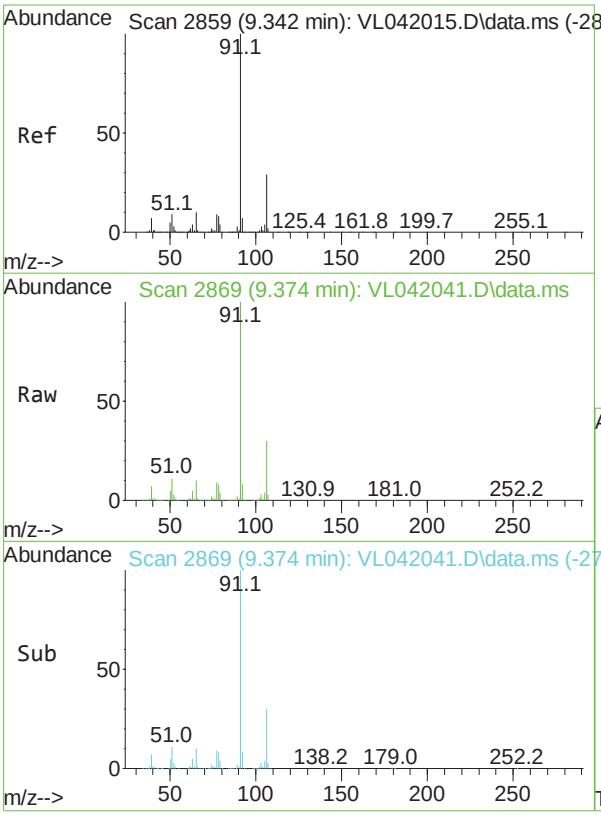
#57
Chlorobenzene
Concen: 7.735 ppbv
RT: 8.940 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:112 Resp: 340525

Ion	Ratio	Lower	Upper
112	100		
77	66.8	56.2	84.2
114	31.4	28.2	34.4

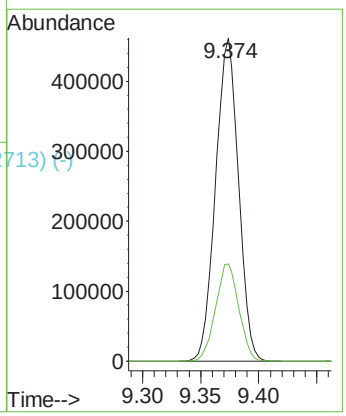


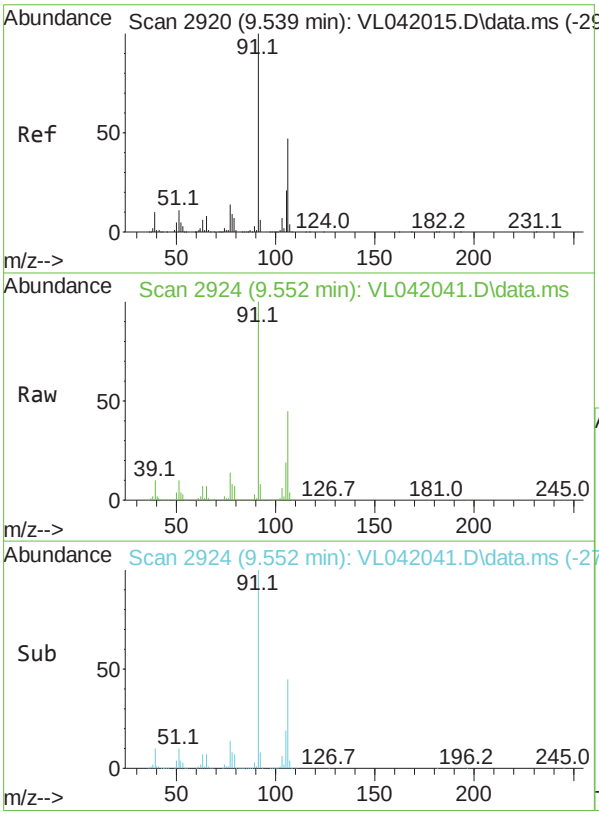


#58
Ethyl Benzene
Concen: 7.739 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 633939

Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.1	34.7



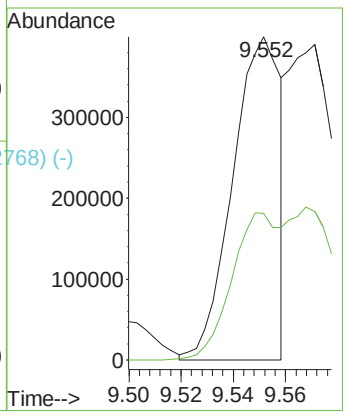


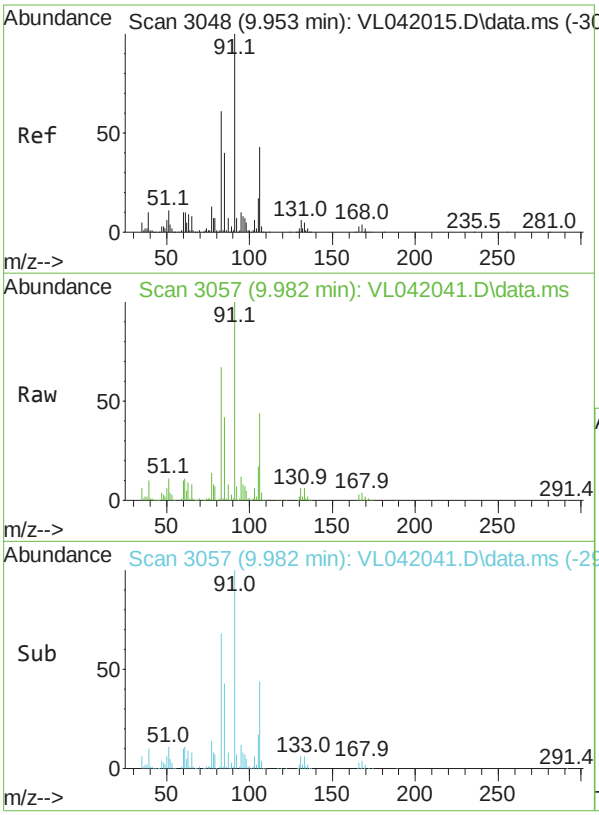
#59
m/p-Xylene
Concen: 7.827 ppbv
RT: 9.552 min Scan
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 504964

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.8	53.8#

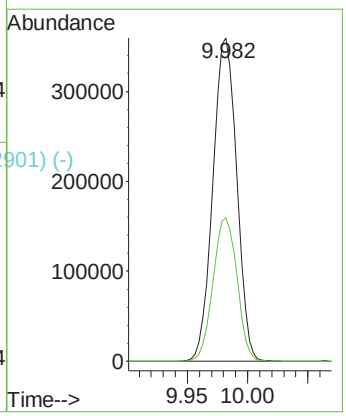


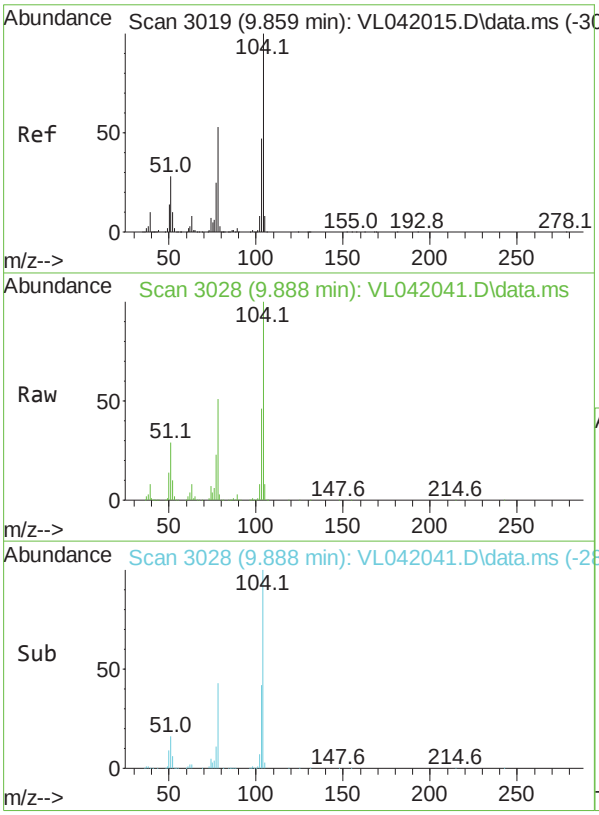


#60
o-Xylene
Concen: 7.557 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 493069

Ion	Ratio	Lower	Upper
91	100		
106	44.5	21.4	64.3



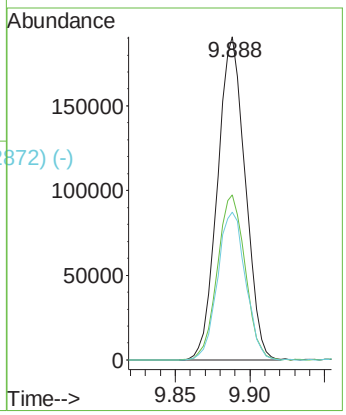


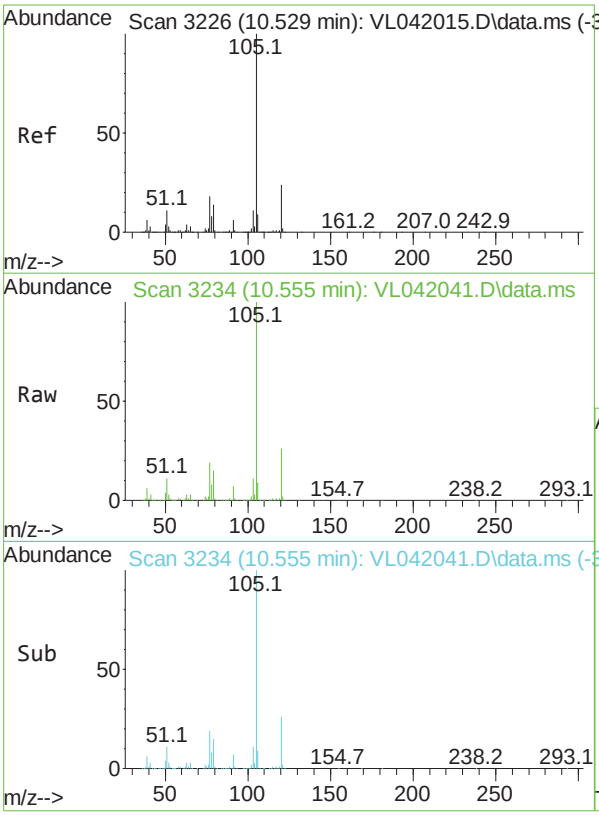
#61
Styrene
Concen: 7.912 ppbv
RT: 9.888 min Scan
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 246161

Ion	Ratio	Lower	Upper
104	100		
78	51.2	42.2	63.4
103	46.3	38.1	57.1

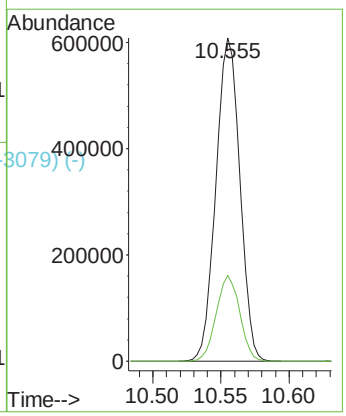


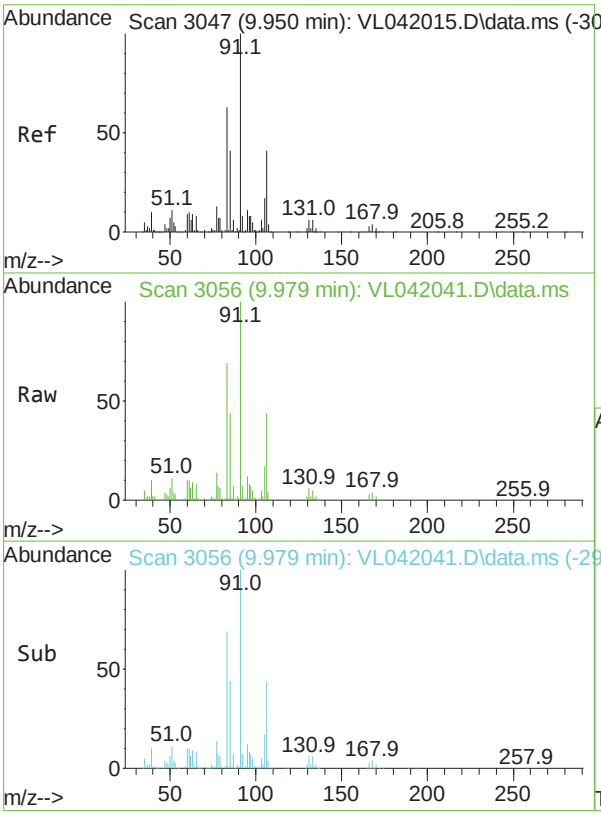


#62
Isopropylbenzene
Concen: 7.522 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:105 Resp: 736884

Ion	Ratio	Lower	Upper
105	100		
120	25.9	19.8	29.8



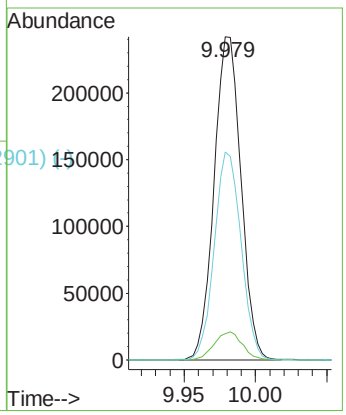


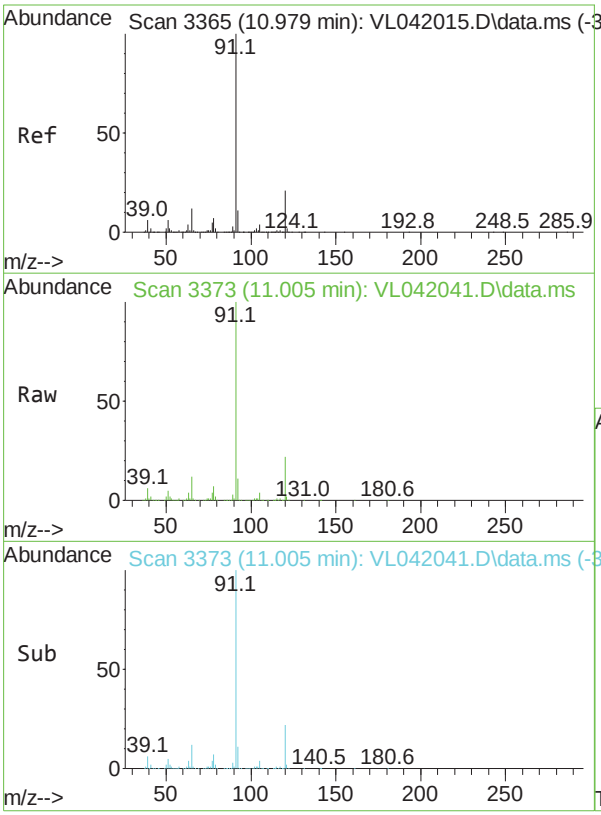
#63
1,1,2,2-Tetrachloroethane
Concen: 7.538 ppbv
RT: 9.979 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 317313

Ion	Ratio	Lower	Upper
83	100		
131	9.1	5.0	15.0
85	64.2	32.1	96.3

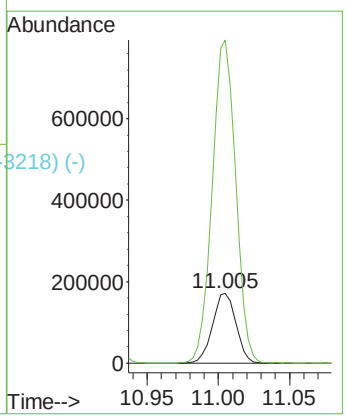


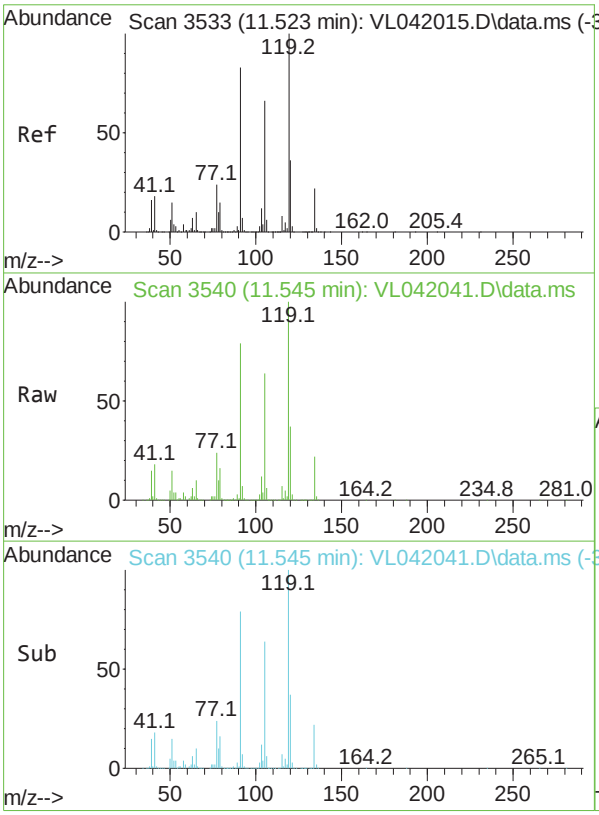


#64
n-propylbenzene
Concen: 8.145 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:120 Resp: 196044

Ion	Ratio	Lower	Upper
120	100		
91	463.3	392.2	588.2



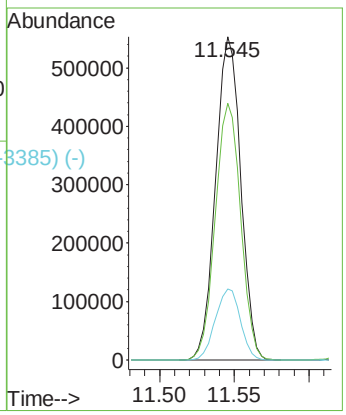


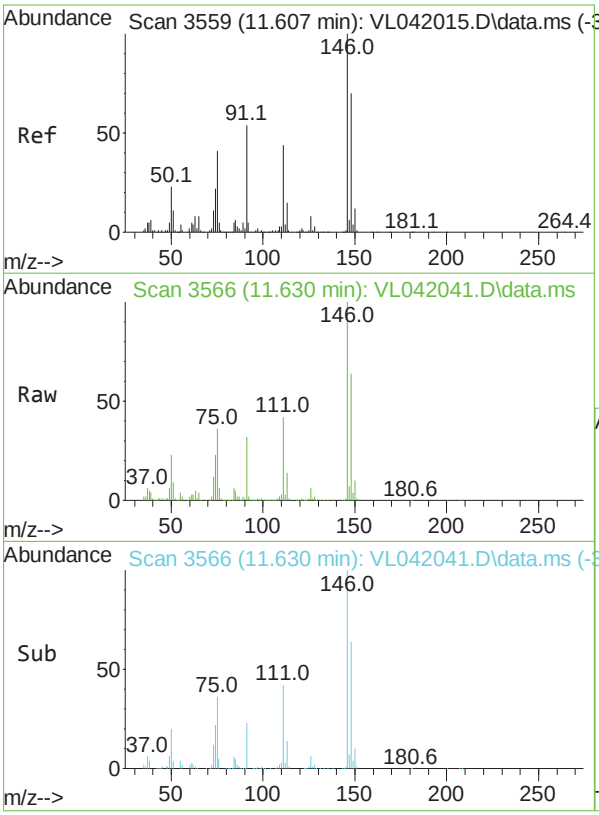
#65
tert-Butylbenzene
Concen: 7.596 ppbv
RT: 11.545 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 648698

Ion	Ratio	Lower	Upper
119	100		
91	80.2	66.5	99.7
134	21.8	16.6	24.8

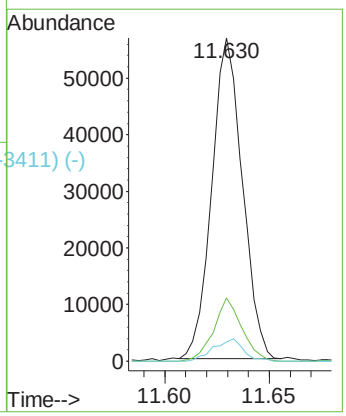


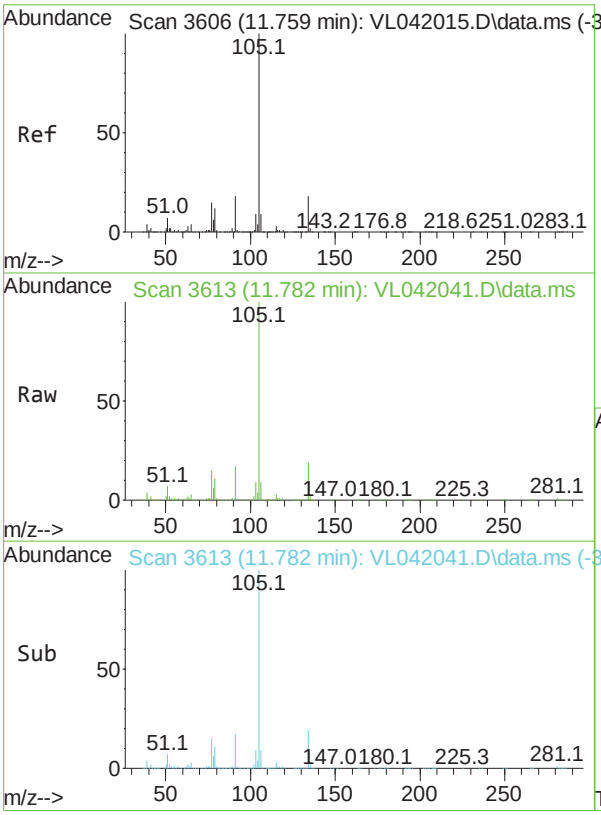


#66
Benzyl Chloride
Concen: 6.699 ppbv
RT: 11.630 min Scan# 3566
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 57345

Ion	Ratio	Lower	Upper
91	100		
126	18.1	13.8	20.6
128	6.8	4.1	6.1#



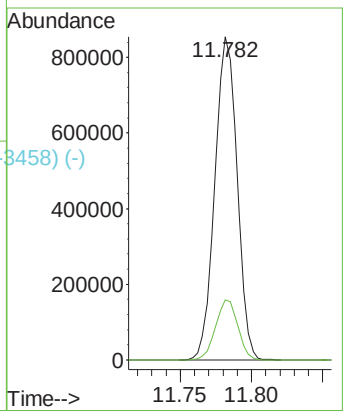


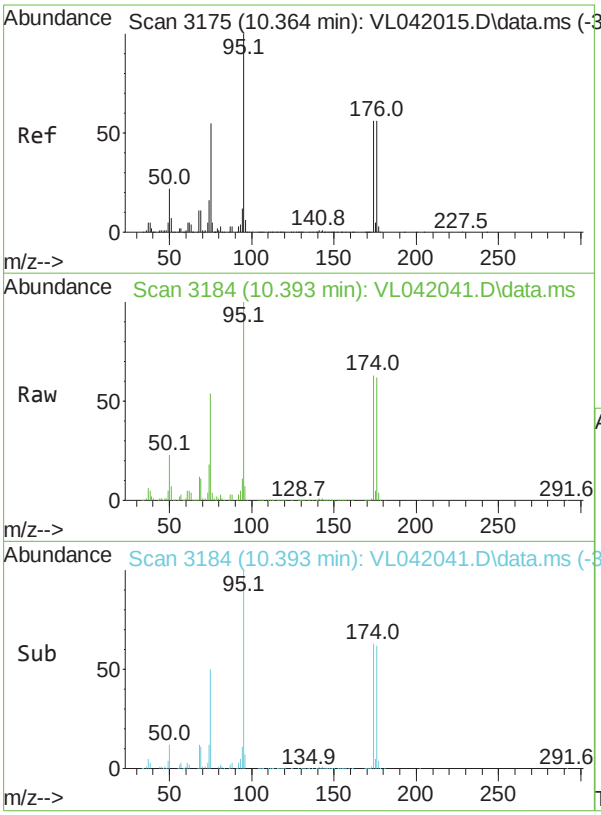
#67
sec-Butylbenzene
Concen: 7.744 ppbv
RT: 11.782 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 928863

Ion	Ratio	Lower	Upper
105	100		
134	18.6	14.7	22.1

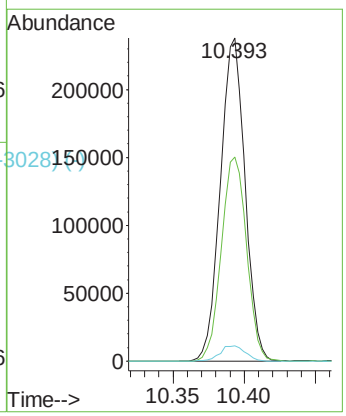


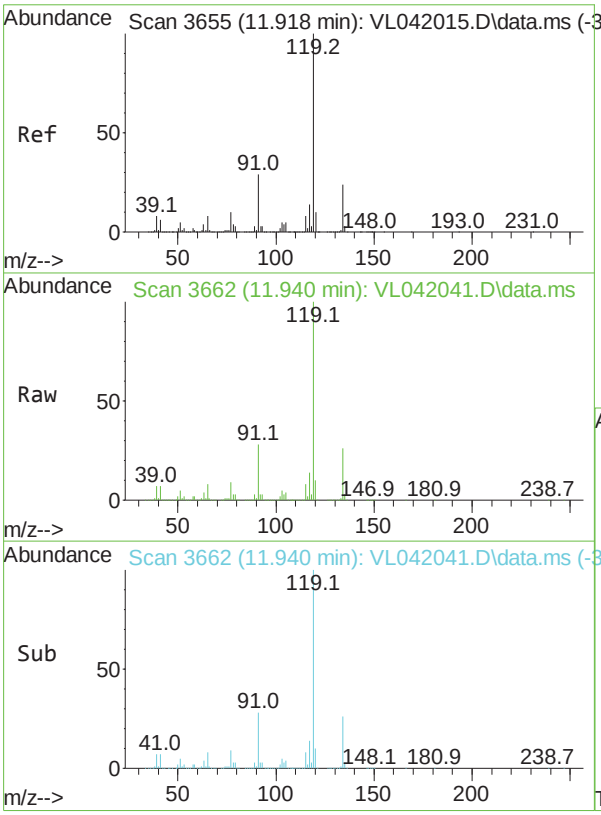


#68
1-Bromo-4-Fluorobenzene
Concen: 9.263 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 95 Resp: 285943

Ion	Ratio	Lower	Upper
95	100		
174	64.7	46.7	70.1
175	4.9	3.7	5.5



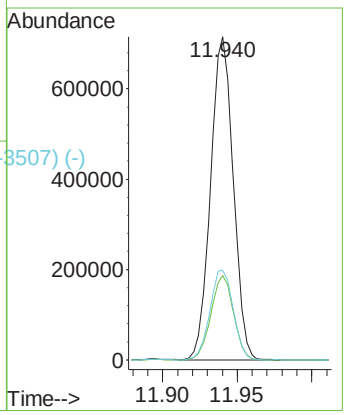


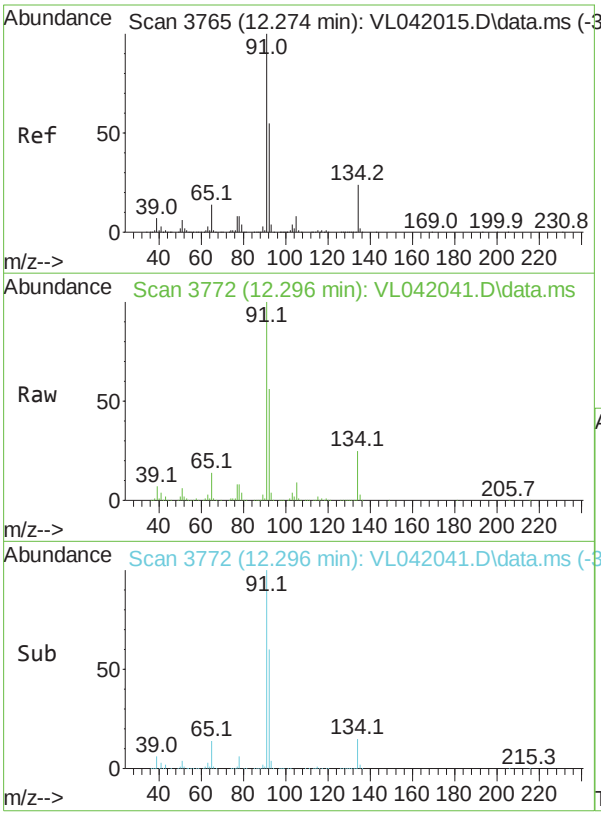
#69
p-Isopropyltoluene
Concen: 7.702 ppbv
RT: 11.940 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 756264

Ion	Ratio	Lower	Upper
119	100		
134	26.1	19.4	29.0
91	28.9	23.4	35.2

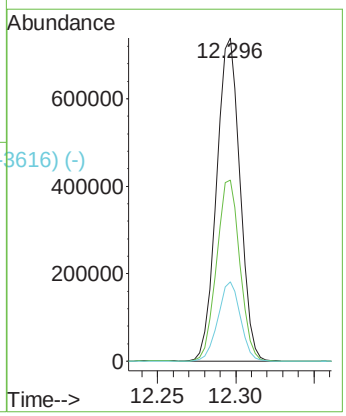


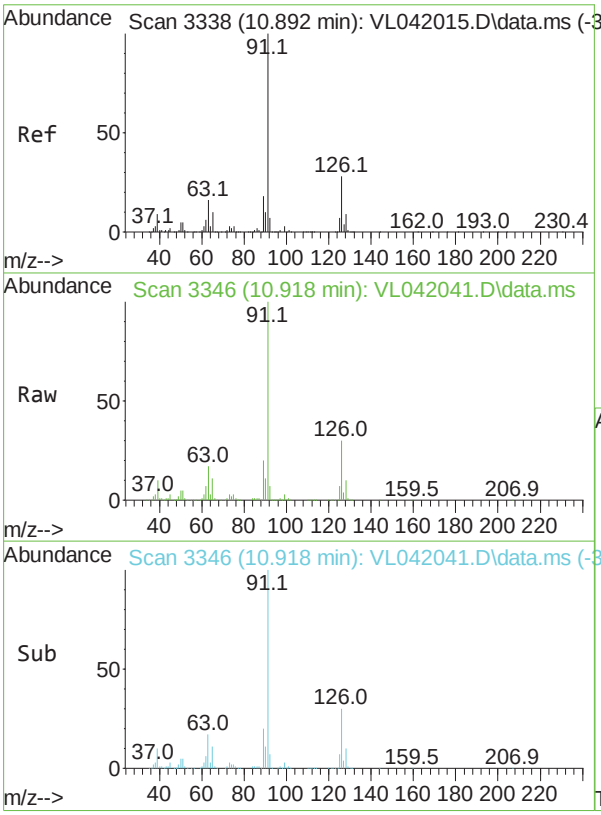


#70
n-Butylbenzene
Concen: 8.009 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion: 91 Resp: 774646

Ion	Ratio	Lower	Upper
91	100		
92	55.9	43.8	65.8
134	23.6	18.6	27.8



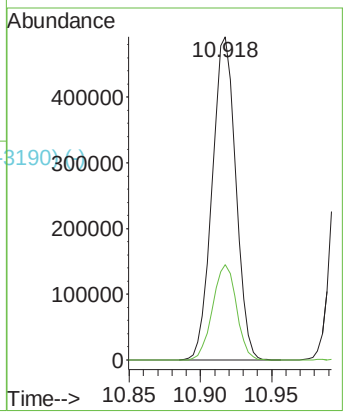


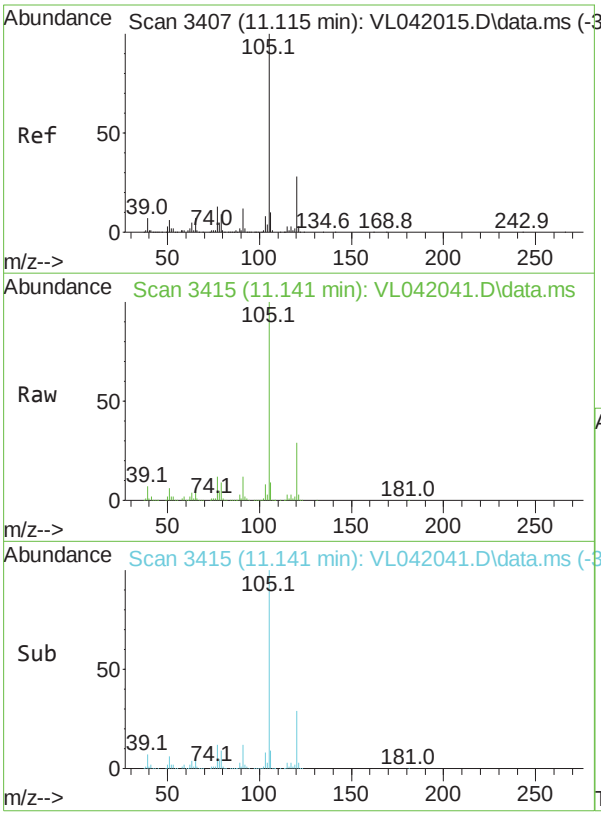
#71
2-Chlorotoluene
Concen: 7.681 ppbv
RT: 10.918 min Scan
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 566619

Ion	Ratio	Lower	Upper
91	100		
126	29.7	11.2	45.0

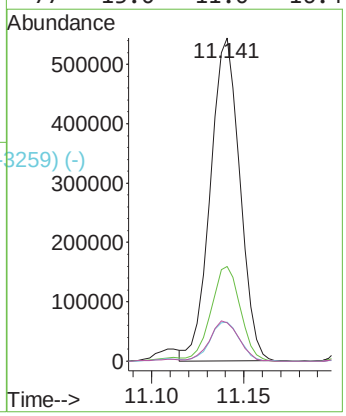


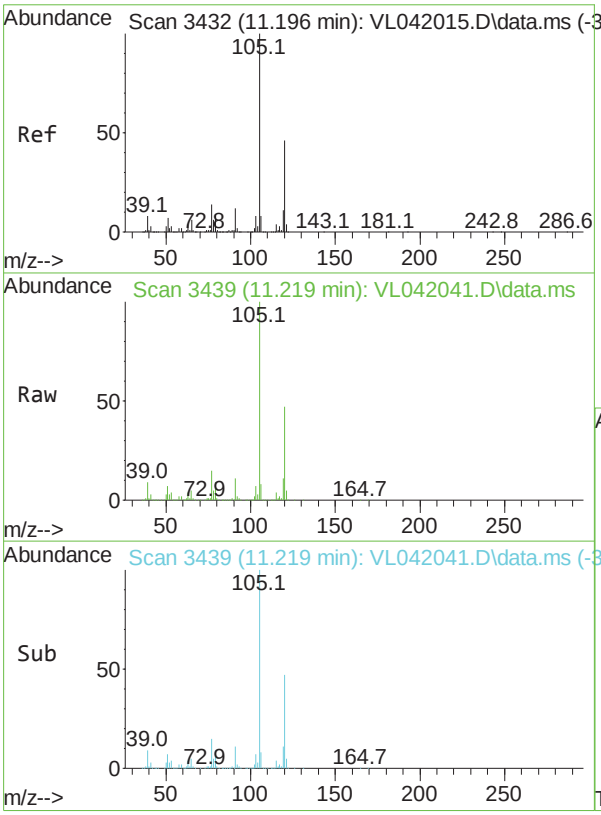


#72
4-Ethyltoluene
Concen: 7.934 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.004 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:105 Resp: 606538

Ion	Ratio	Lower	Upper
105	100		
120	30.1	22.7	34.1
91	12.8	10.2	15.2
77	13.0	11.0	16.4



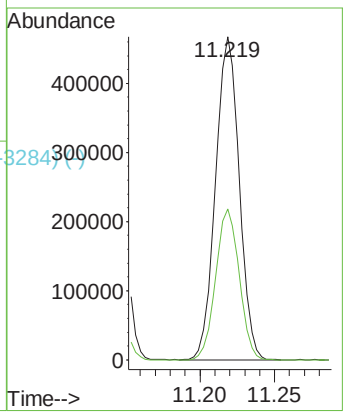


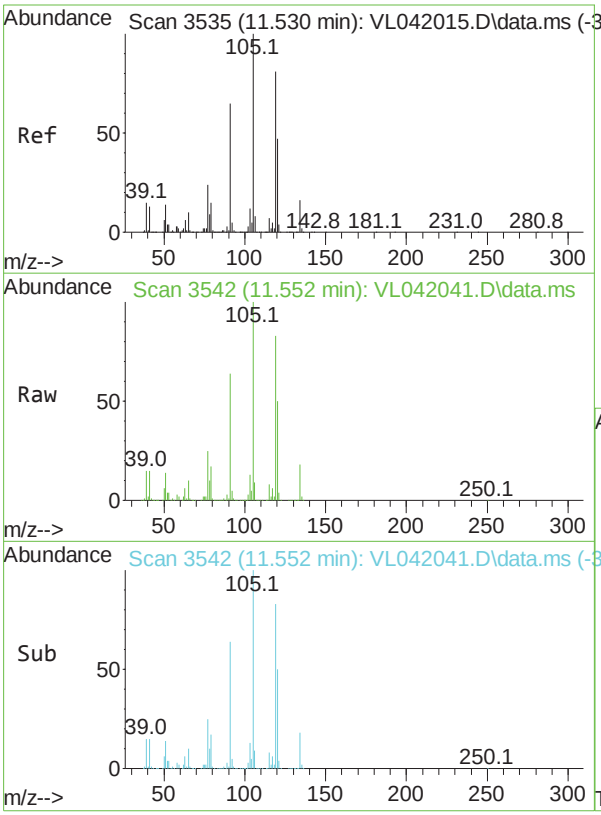
#23
1,3,5-Trimethylbenzene
Concen: 7.838 ppbv
RT: 11.219 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 516875

Ion	Ratio	Lower	Upper
105	100		
120	46.7	37.1	55.7

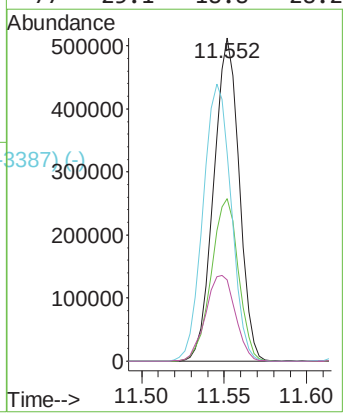


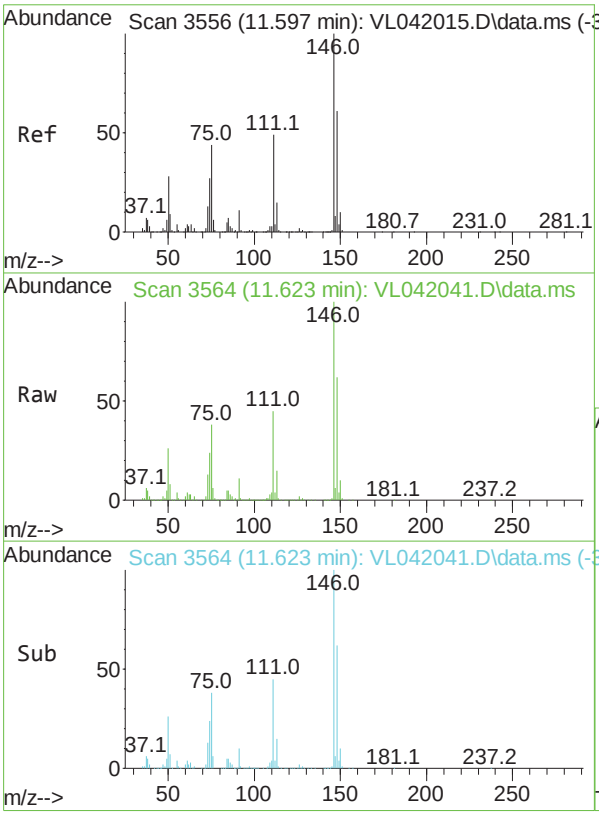


#24
1,2,4-Trimethylbenzene
Concen: 7.777 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:105 Resp: 550412

Ion	Ratio	Lower	Upper
105	100		
120	50.2	37.5	56.3
91	64.3	51.7	77.5
77	25.1	18.8	28.2



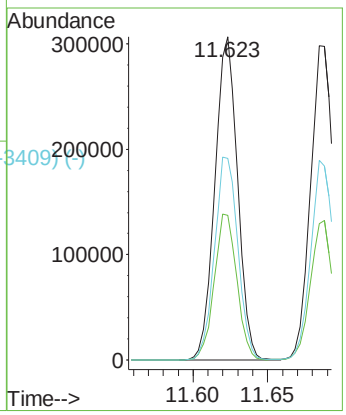


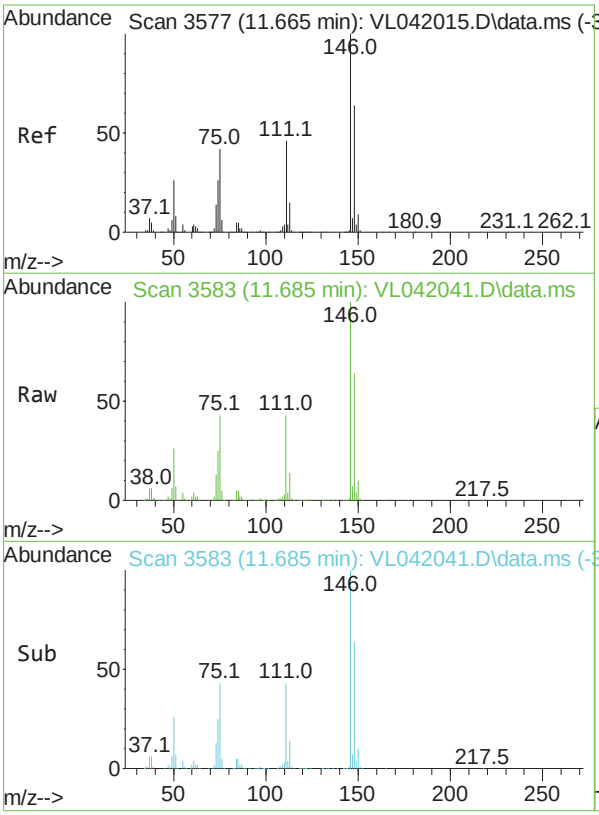
#75
1,3-Dichlorobenzene
Concen: 8.535 ppbv
RT: 11.623 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 325160

Ion	Ratio	Lower	Upper
146	100		
111	44.8	23.9	71.7
148	64.5	31.5	94.5

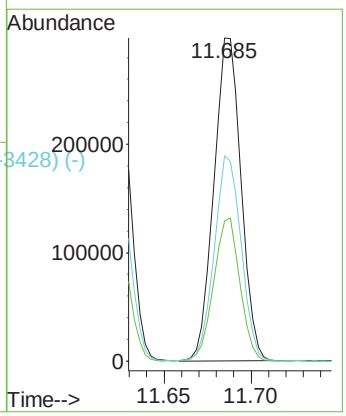


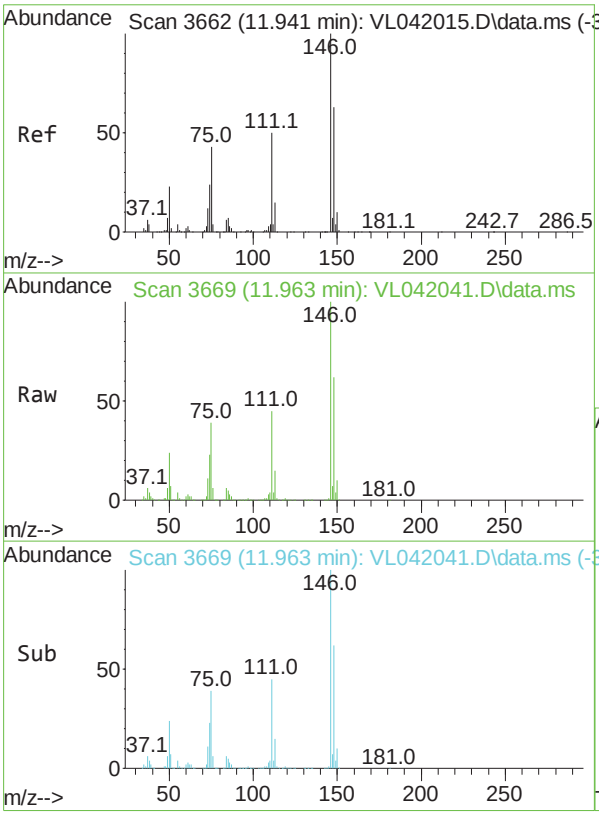


#76
1,4-Dichlorobenzene
Concen: 8.678 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:146 Resp: 322404

Ion	Ratio	Lower	Upper
146	100		
111	43.0	23.5	70.5
148	63.3	32.3	96.9



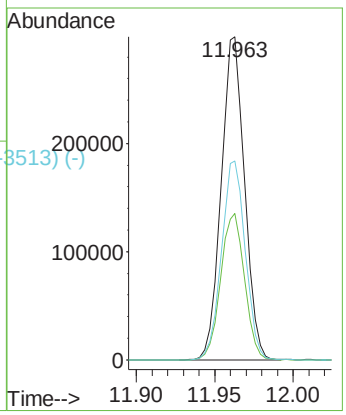


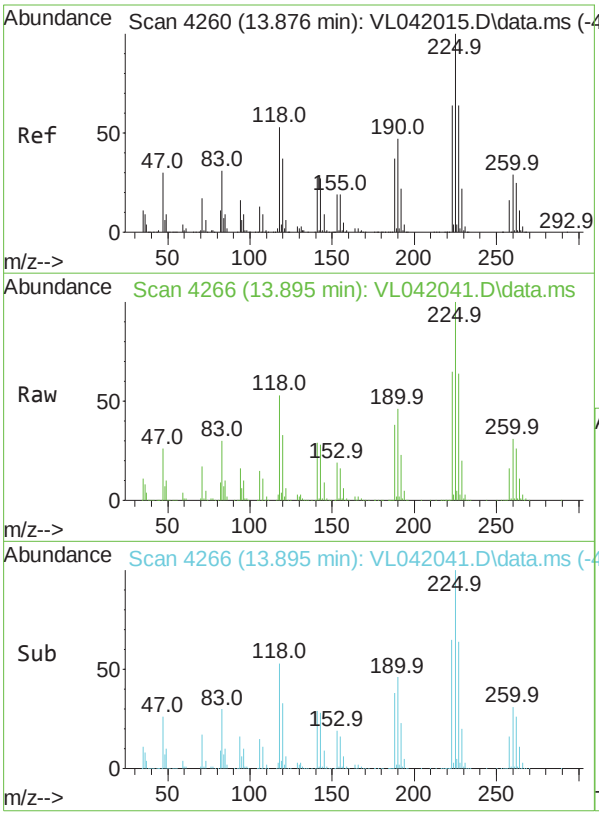
#527 (-)
1,2-Dichlorobenzene
Concen: 8.593 ppbv
RT: 11.963 min Scan
Delta R.T. 0.003 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 312942

Ion	Ratio	Lower	Upper
146	100		
111	46.4	25.6	76.8
148	62.8	31.9	95.7

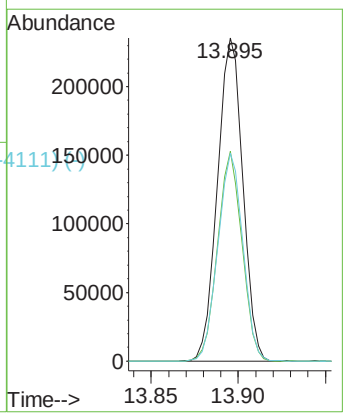


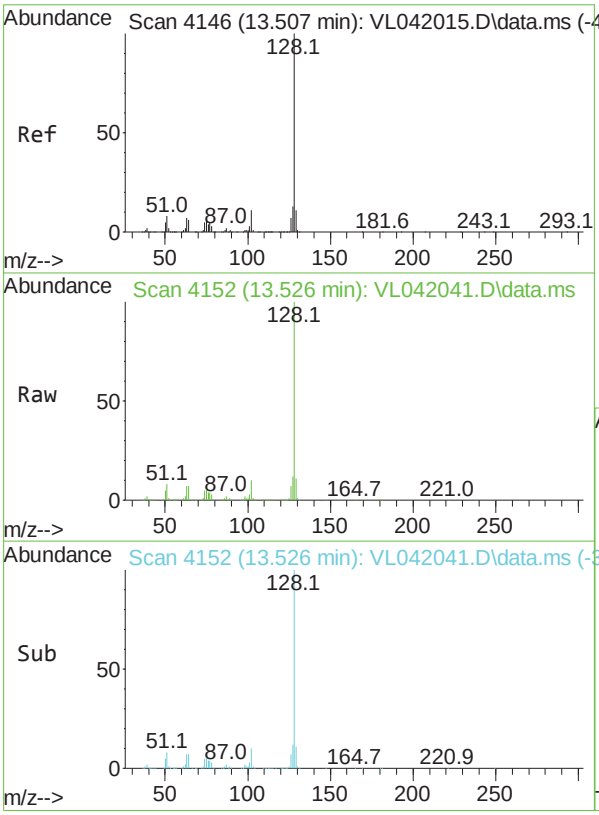


#528 (-)
Hexachloro-1,3-Butadiene
Concen: 7.907 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:225 Resp: 238217

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.6	75.8
227	63.5	50.9	76.3



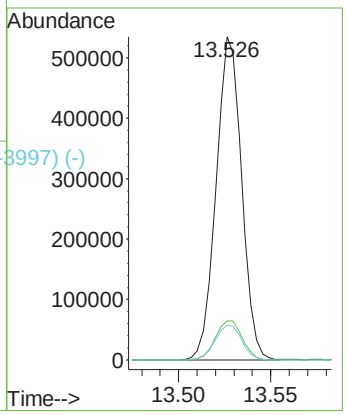


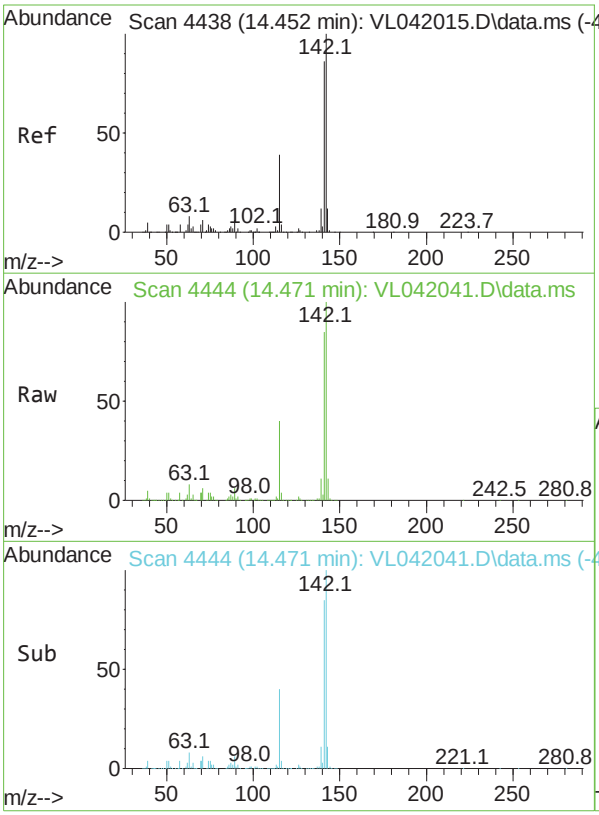
#379
Naphthalene
Concen: 7.372 ppbv
RT: 13.526 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:128 Resp: 513192

Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.2	15.2
129	10.7	8.6	13.0

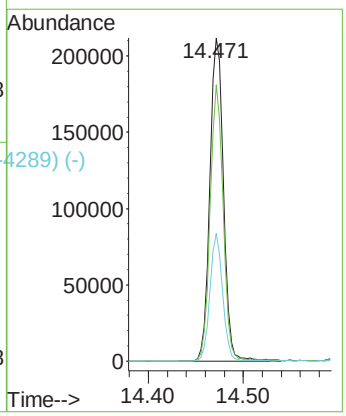


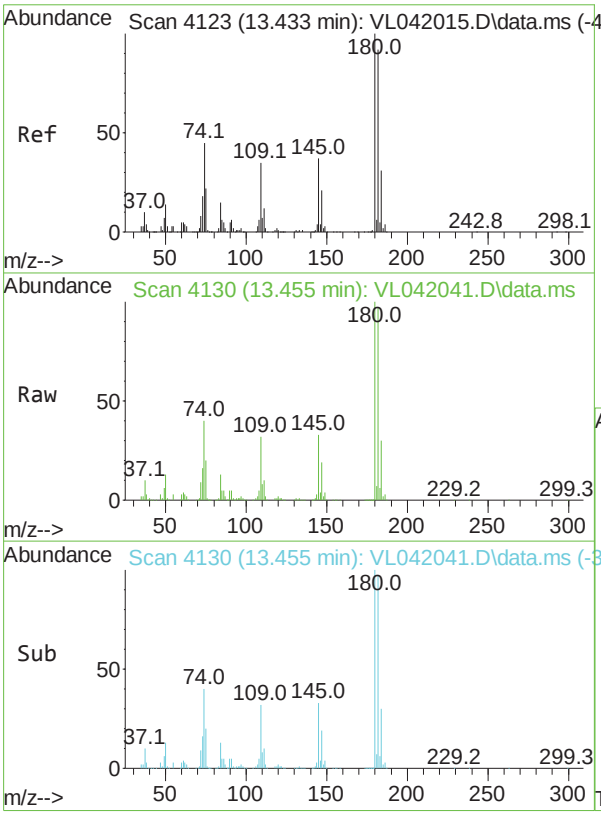


#380
Naphthalene,2-methyl-
Concen: 6.676 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Tgt Ion:142 Resp: 210405

Ion	Ratio	Lower	Upper
142	100		
141	82.2	68.2	102.2
115	36.9	33.6	50.4



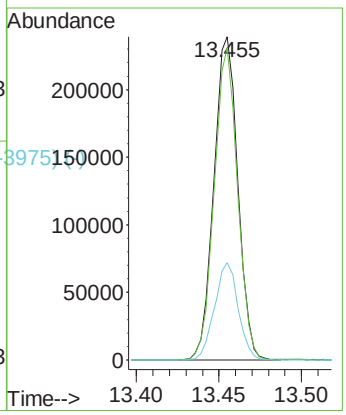


#81
1,2,4-Trichlorobenzene
Concen: 8.517 ppbv
RT: 13.455 min Scan
Delta R.T. 0.000 min
Lab File: VL042041.D
Acq: 25 Feb 2025 08:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:180 Resp: 241031

Ion	Ratio	Lower	Upper
180	100		
182	93.9	75.8	113.6
184	29.7	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	160999	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	289049	9.273	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery =	92.700%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv		95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv		94
4) Chloromethane	1.538	50	12833	1.192	ppbv	#	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv		97
6) Bromomethane	1.674	94	5996	1.201	ppbv		97
7) Chloroethane	1.712	64	5014	1.195	ppbv		90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv		99
9) Propene	1.489	41	20484	1.551	ppbv		95
10) Heptane	5.004	43	63098	1.720	ppbv		94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv		90
13) Ethanol	1.729	45	1291	0.866	ppbv		91
14) Bromoethene	1.790	108	9642	1.187	ppbv		93
15) Acetone	1.842	43	30058	1.131	ppbv		100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv		100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv		96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv		93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv		96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv	#	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv		96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv		81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv	#	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv		99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv		100
26) Hexane	2.839	57	48912	1.671	ppbv		98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv	#	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv		100
29) Chloroform	2.865	83	63463	1.497	ppbv		92
30) Cyclohexane	3.878	84	40420	1.702	ppbv		98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv		96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv		97
34) 2-Butanone	2.573	43	69370	1.888	ppbv		96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv		97
36) Benzene	3.677	78	94277	1.822	ppbv		98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv		99
38) Trichloroethene	4.574	130	38184	1.817	ppbv		99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv		95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv	#	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv		96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv		94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

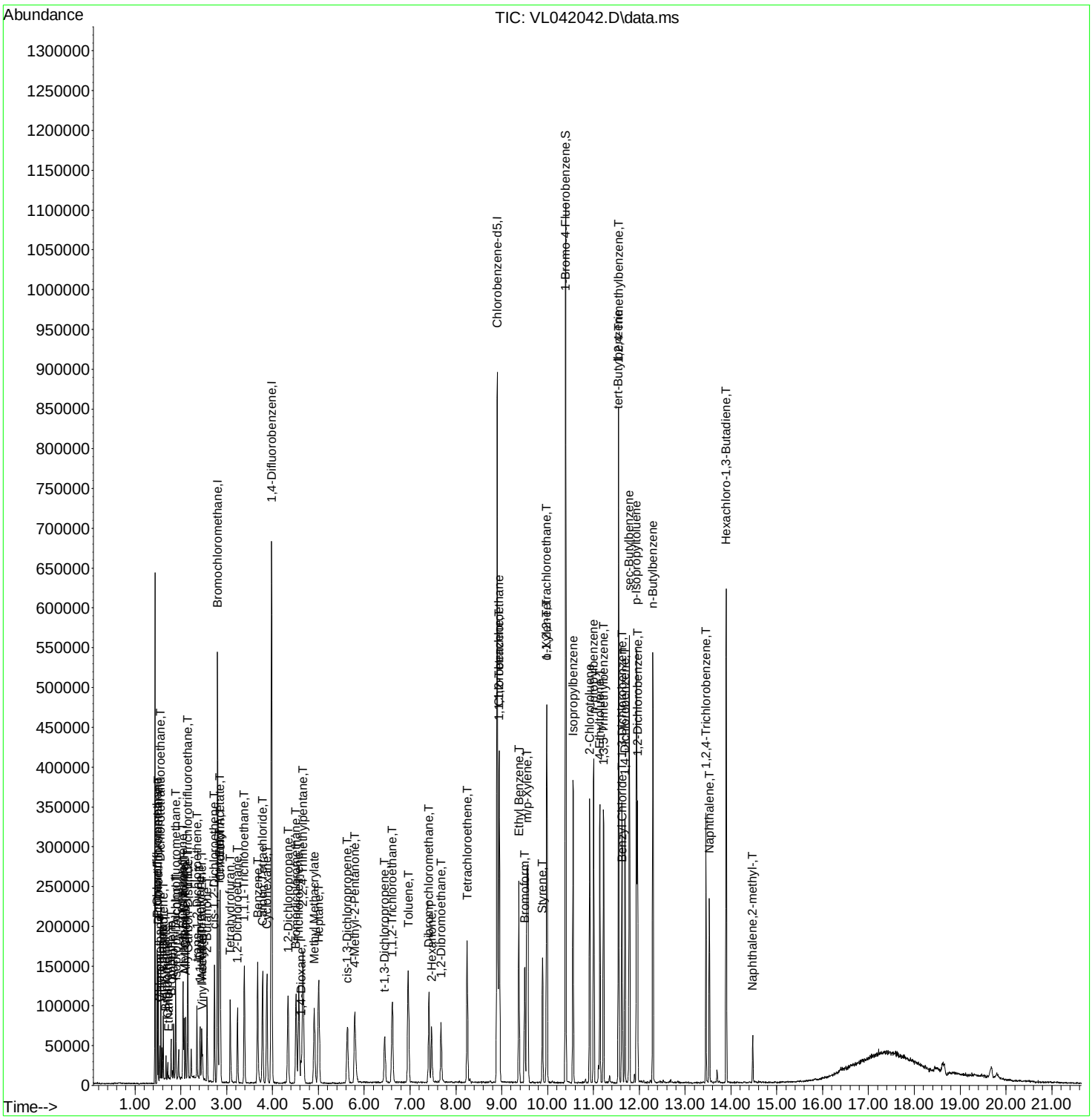
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv		94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv		97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv		93
46) cis-1,3-Dichloropropene	5.632	75	46835	1.658	ppbv		93
47) 1,1,2-Trichloroethane	6.613	97	36368	1.822	ppbv		93
48) Dibromochloromethane	7.412	129	56931	1.703	ppbv		99
49) Bromoform	9.503	173	50259	1.833	ppbv		99
50) 4-Methyl-2-Pentanone	5.797	43	83246	1.474	ppbv		99
51) 2-Hexanone	7.470	43	51926	1.124	ppbv	#	94
52) Tetrachloroethene	8.244	164	32874	1.822	ppbv		95
53) Toluene	6.962	91	109646	1.779	ppbv		98
54) 1,2-Dibromoethane	7.678	107	50010	1.820	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.946	131	44947	1.662	ppbv		98
57) Chlorobenzene	8.943	112	84749	1.906	ppbv		95
58) Ethyl Benzene	9.374	91	149185	1.804	ppbv		99
59) m/p-Xylene	9.548	91	115500	1.773	ppbv	#	20
60) o-Xylene	9.982	91	119170	1.809	ppbv		97
61) Styrene	9.888	104	55798	1.776	ppbv		96
62) Isopropylbenzene	10.555	105	181311	1.833	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.982	83	77911	1.833	ppbv		96
64) n-propylbenzene	11.005	120	47764	1.965	ppbv		92
65) tert-Butylbenzene	11.545	119	167973	1.948	ppbv		96
66) Benzyl Chloride	11.630	91	12304	1.423	ppbv	#	98
67) sec-Butylbenzene	11.782	105	240504	1.986	ppbv		99
69) p-Isopropyltoluene	11.940	119	194660	1.963	ppbv		99
70) n-Butylbenzene	12.296	91	194416	1.991	ppbv		99
71) 2-Chlorotoluene	10.917	91	140068	1.880	ppbv		98
72) 4-Ethyltoluene	11.141	105	150038	1.944	ppbv		98
73) 1,3,5-Trimethylbenzene	11.218	105	128202	1.925	ppbv		99
74) 1,2,4-Trimethylbenzene	11.549	105	150380	2.104	ppbv	#	88
75) 1,3-Dichlorobenzene	11.623	146	81884	2.129	ppbv		98
76) 1,4-Dichlorobenzene	11.688	146	82560	2.201	ppbv		97
77) 1,2-Dichlorobenzene	11.963	146	80367	2.186	ppbv		96
78) Hexachloro-1,3-Butadiene	13.895	225	63815	2.098	ppbv		99
79) Naphthalene	13.526	128	102197	1.454	ppbv		98
80) Naphthalene,2-methyl-	14.475	142	18104	0.569	ppbv		94
81) 1,2,4-Trichlorobenzene	13.455	180	57798	2.023	ppbv		98

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

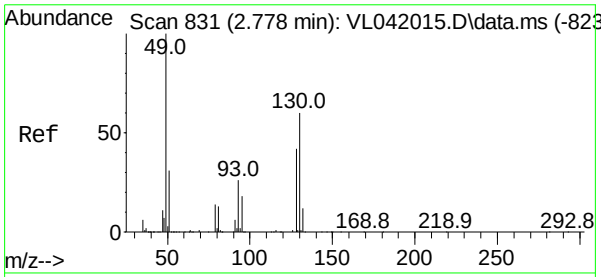
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration



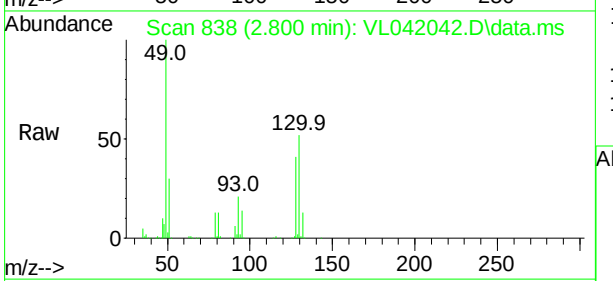
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

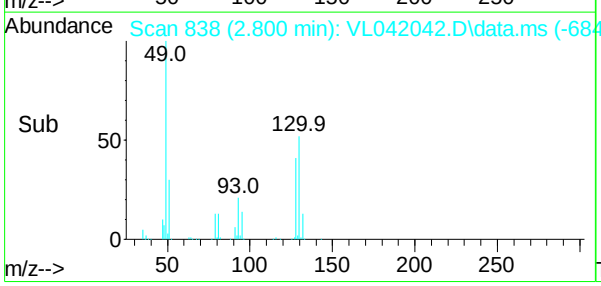


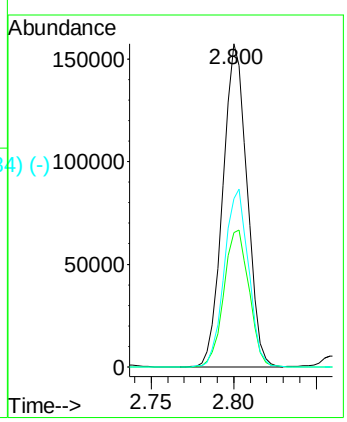
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

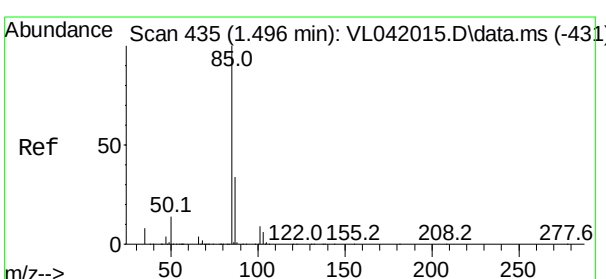
Tgt Ion: 49 Resp: 160999

Ion	Ratio	Lower	Upper
49	100		
128	44.0	22.7	68.0
130	54.7	29.9	89.8





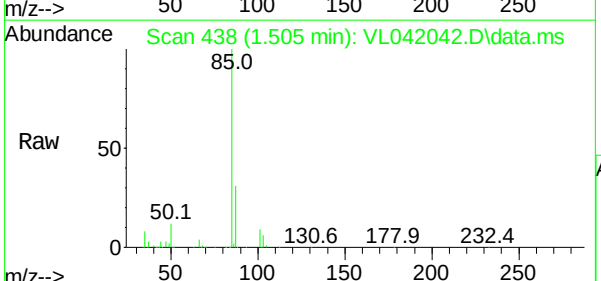


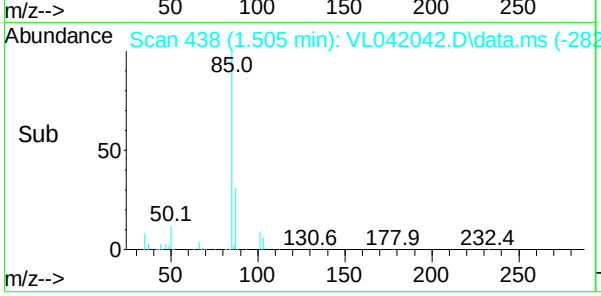


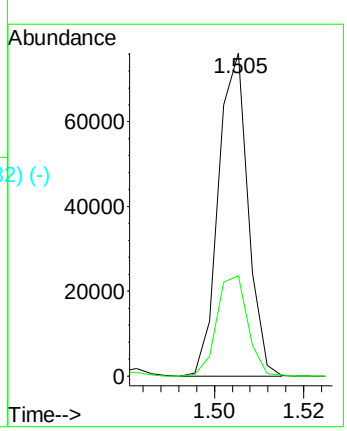
#2
Dichlorodifluoromethane
Concen: 1.267 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

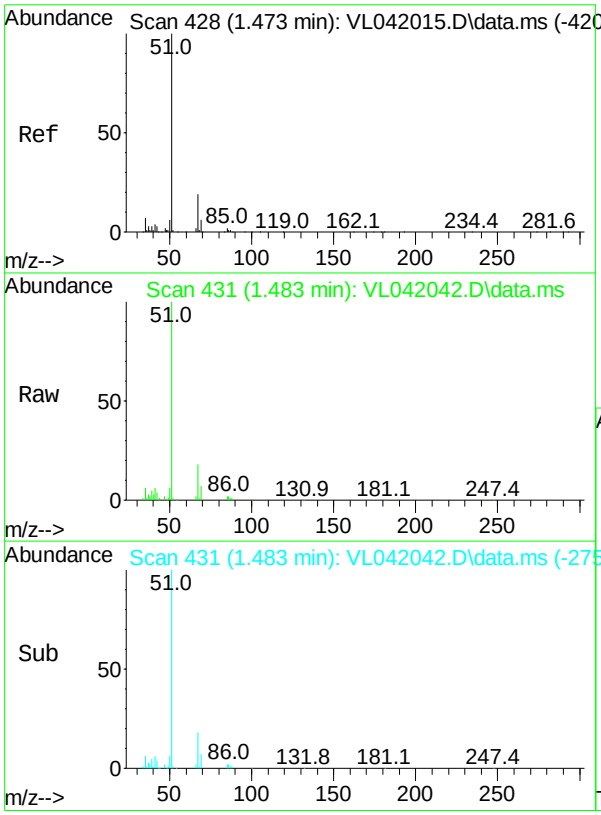
Tgt Ion: 85 Resp: 35122

Ion	Ratio	Lower	Upper
85	100		
87	31.0	26.9	40.3







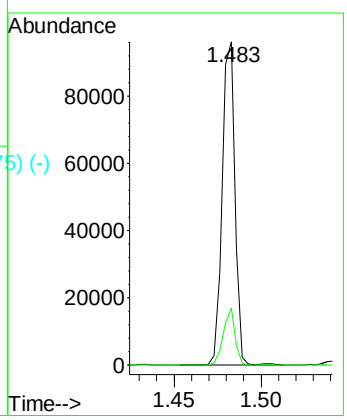


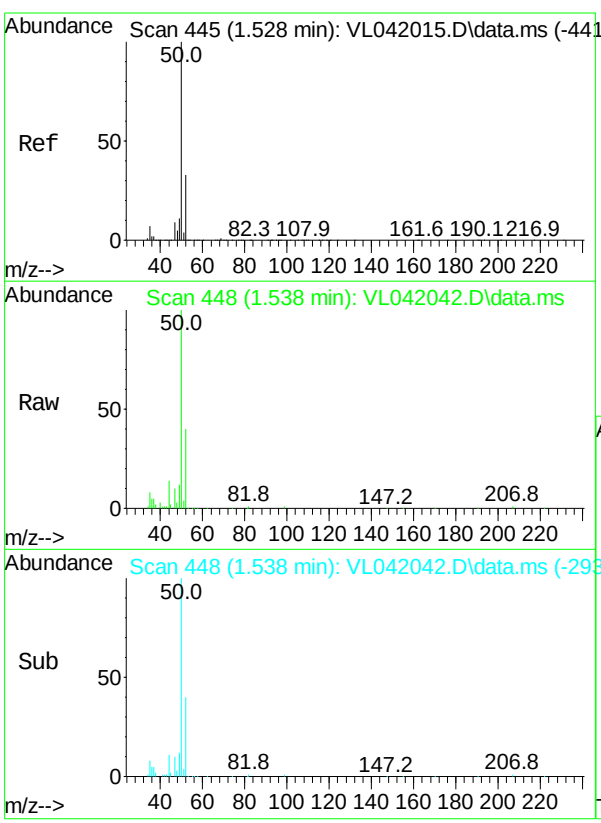
#3
Chlorodifluoromethane
Concen: 1.613 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 49423

Ion	Ratio	Lower	Upper
51	100		
67	16.1	15.0	22.6

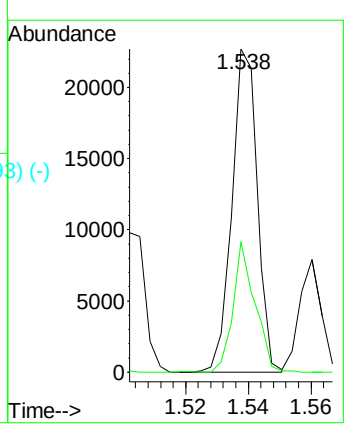




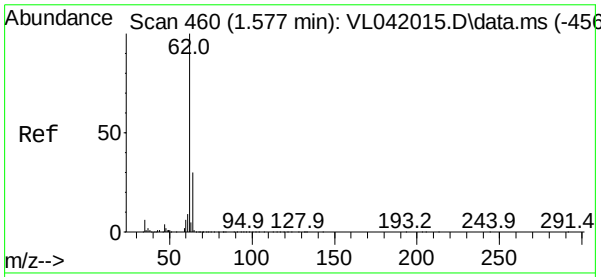
#4
Chloromethane
Concen: 1.192 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 50 Resp: 12833

Ion	Ratio	Lower	Upper
50	100		
52	40.2	26.2	39.2#



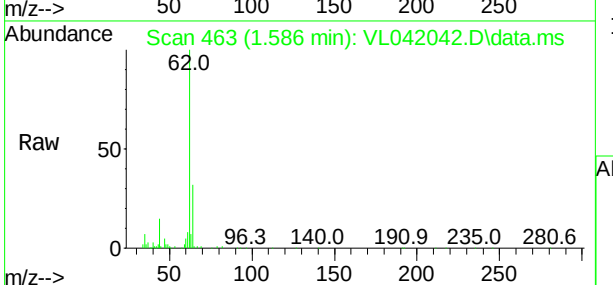
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

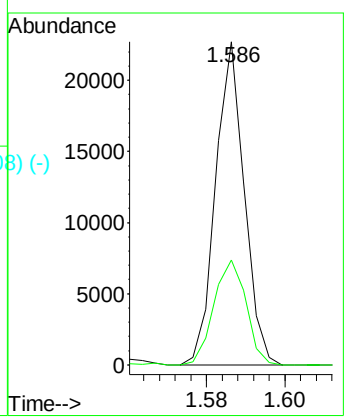


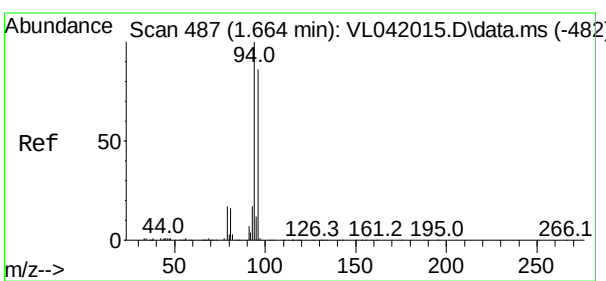
#5
Vinyl Chloride
Concen: 0.902 ppbv
RT: 1.586 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 62 Resp: 11611

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.4	36.6



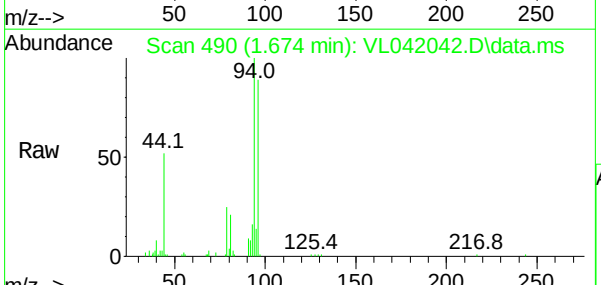


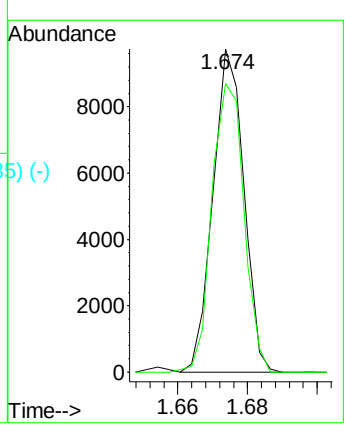


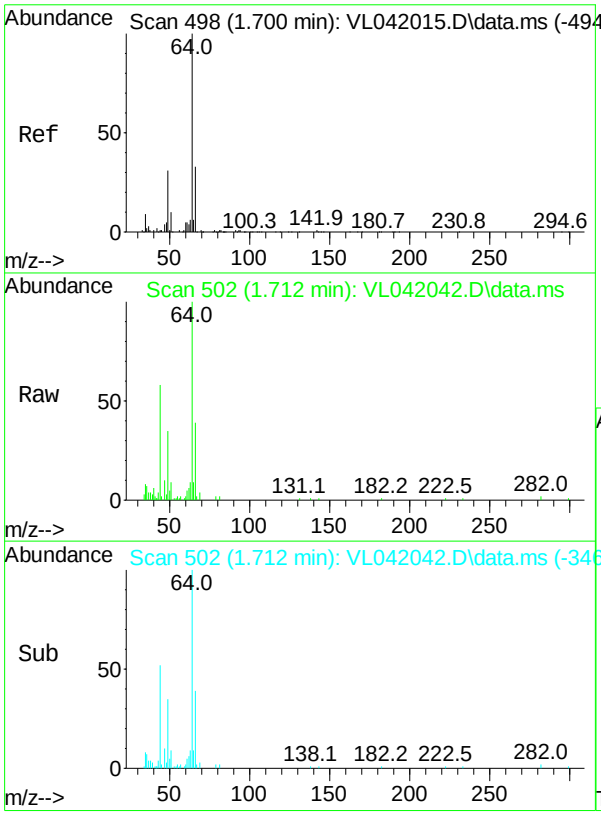
#6
Bromomethane
Concen: 1.201 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 94 Resp: 5996

Ion	Ratio	Lower	Upper
94	100		
96	89.3	69.0	103.6



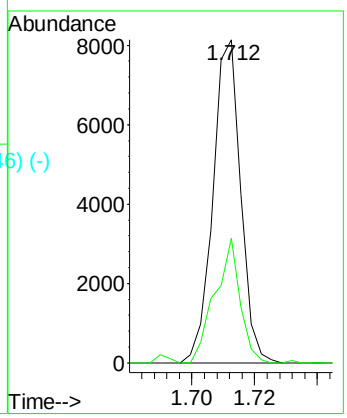


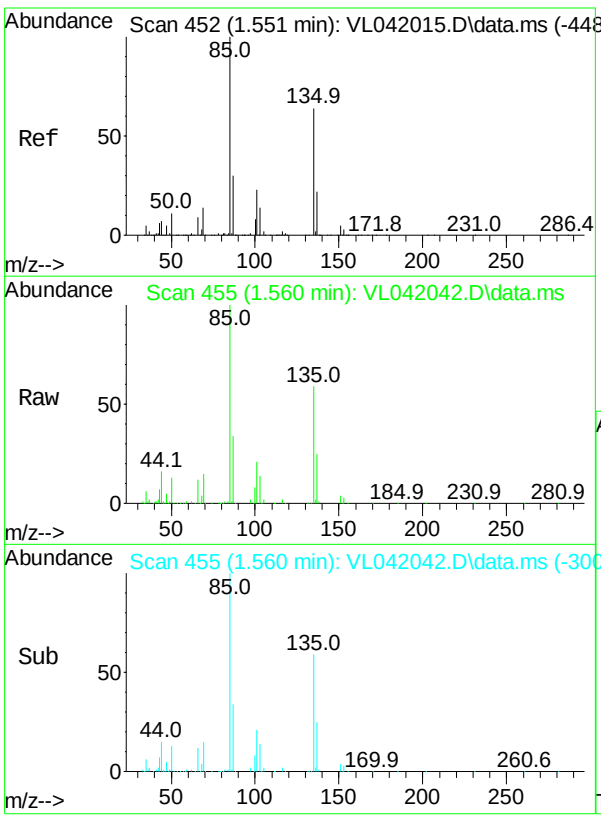


#7
Chloroethane
Concen: 1.195 ppbv
RT: 1.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 64 Resp: 5014

Ion	Ratio	Lower	Upper
64	100		
66	38.7	26.5	39.7

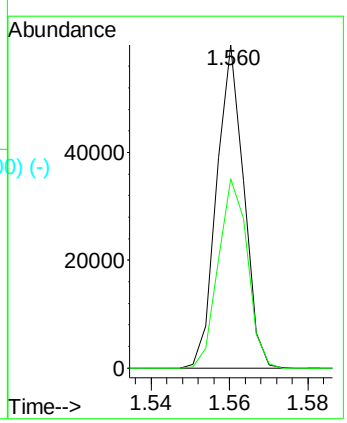




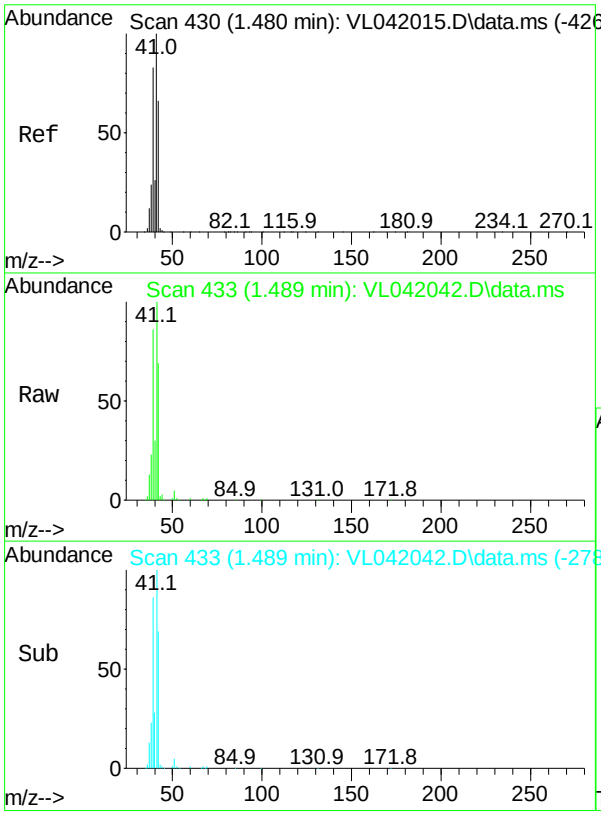
#8
Dichlorotetrafluoroethane
Concen: 1.191 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 85 Resp: 29028

Ion	Ratio	Lower	Upper
85	100		
135	63.1	50.9	76.3



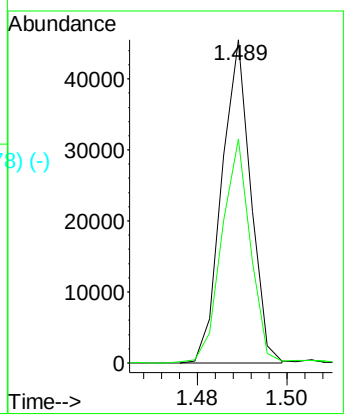
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

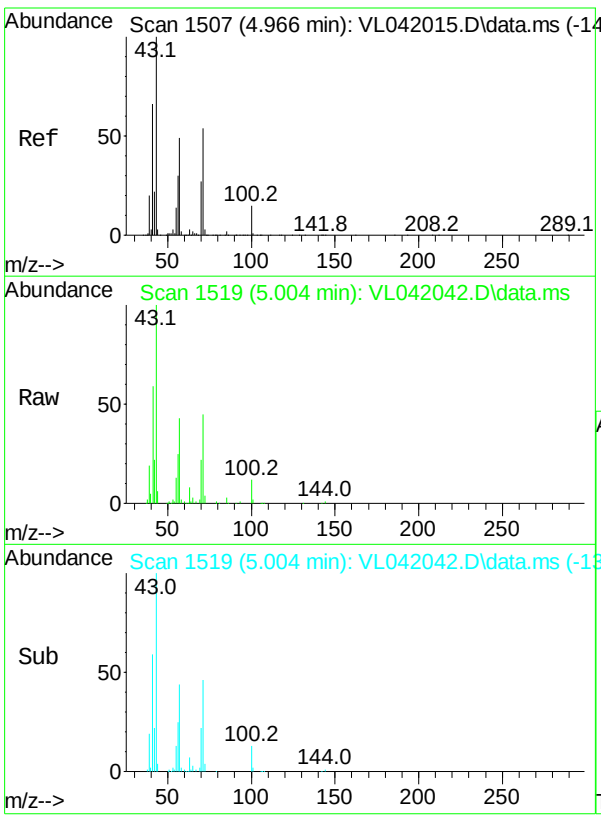


#9
Propene
Concen: 1.551 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 41 Resp: 20484

Ion	Ratio	Lower	Upper
41	100		
42	70.7	53.5	80.3

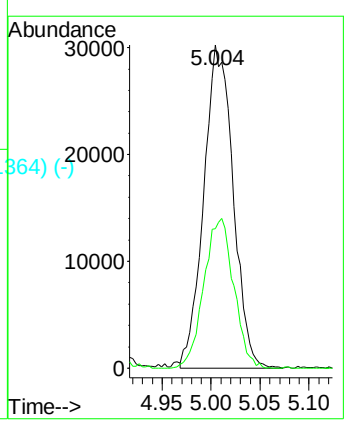




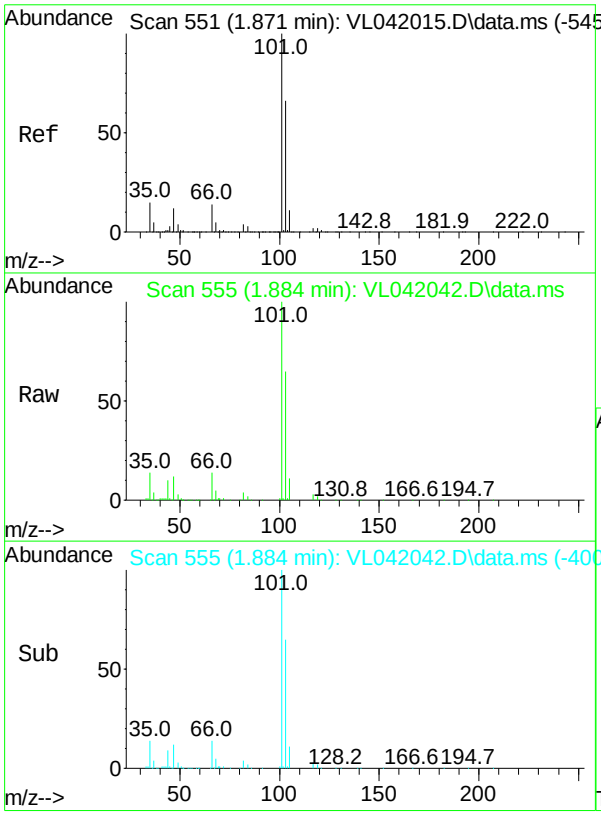
#10
Heptane
Concen: 1.720 ppbv
RT: 5.004 min Scan# 1519
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 63098

Ion	Ratio	Lower	Upper
43	100		
57	47.0	41.0	61.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

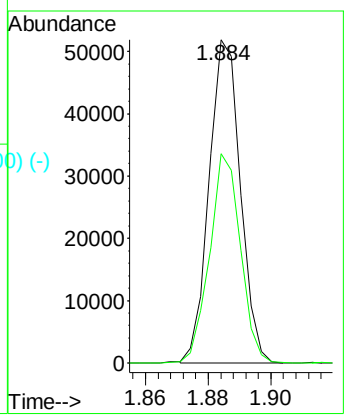


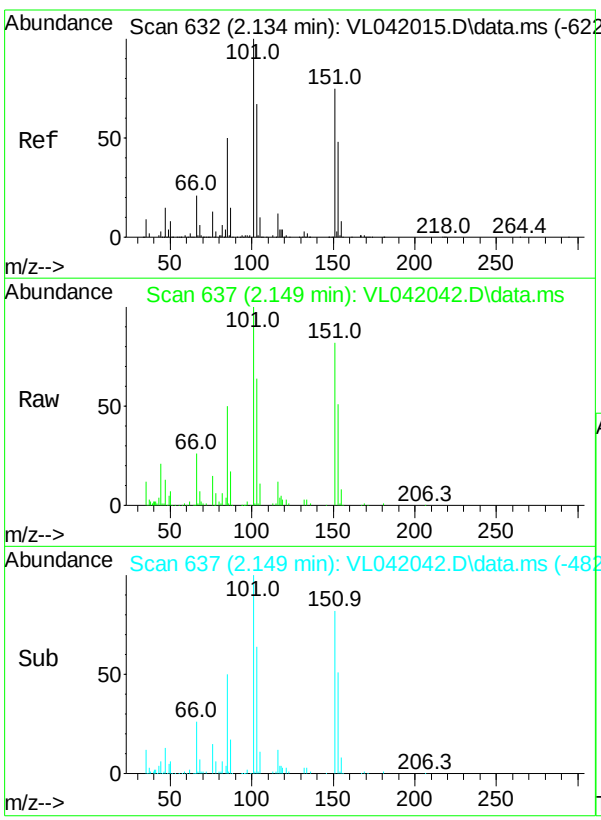
#11
Trichlorofluoromethane
Concen: 1.292 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 36041

Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.9	79.3

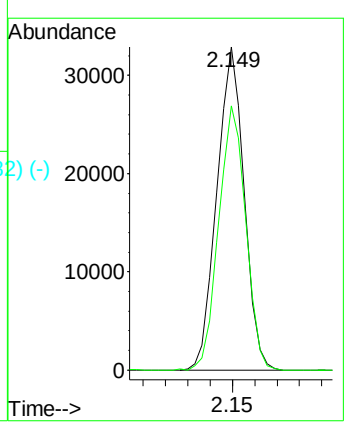


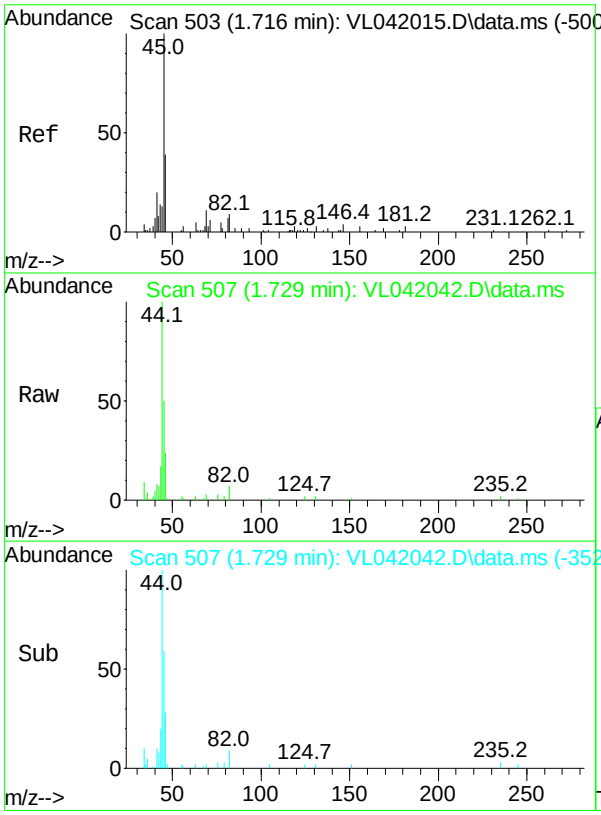


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.280 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:101 Resp: 27846

Ion	Ratio	Lower	Upper
101	100		
151	81.3	58.2	87.2

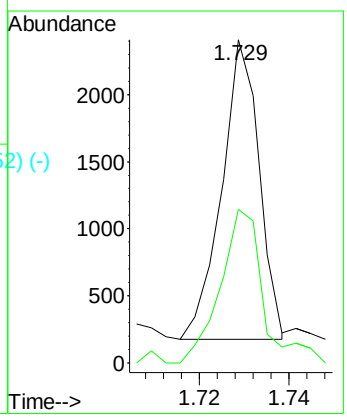




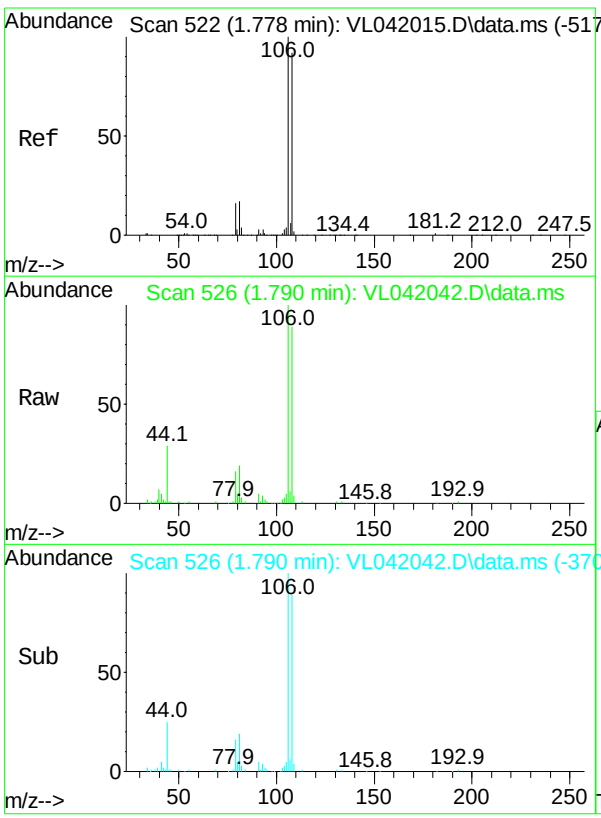
#13
Ethanol
Concen: 0.866 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 45 Resp: 1291

Ion	Ratio	Lower	Upper
45	100		
46	59.8	21.3	85.1



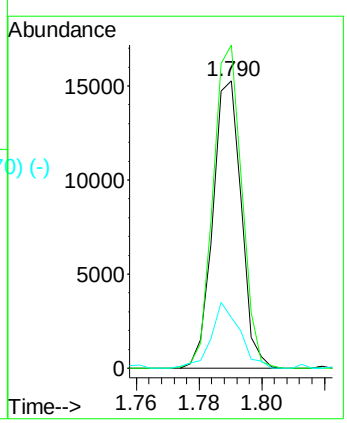
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

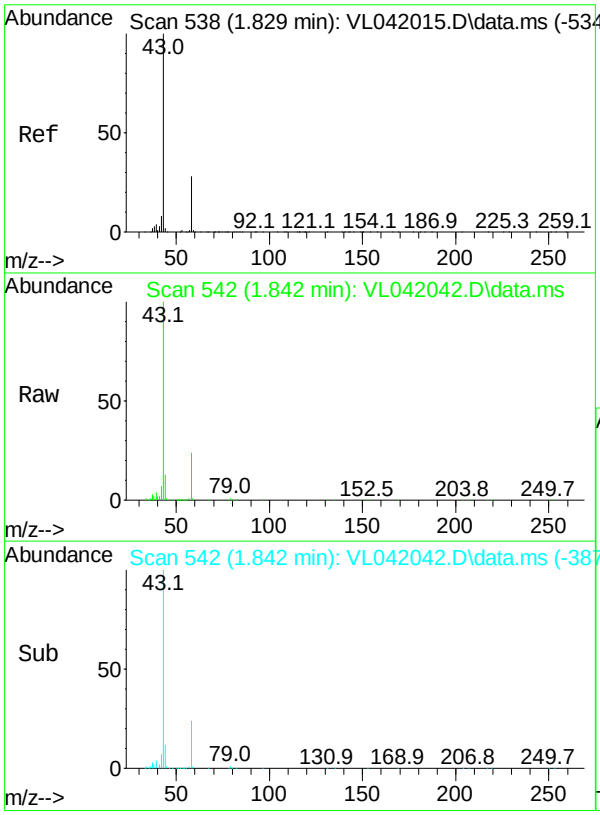


#14
Bromoethene
Concen: 1.187 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:108 Resp: 9642

Ion	Ratio	Lower	Upper
108	100		
106	114.2	85.0	127.6
79	23.8	17.3	25.9



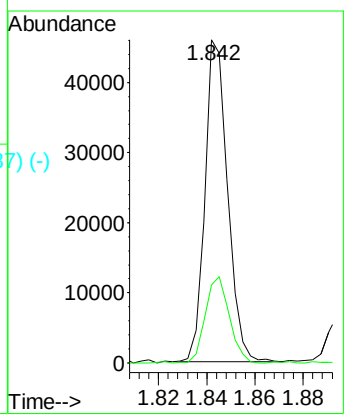


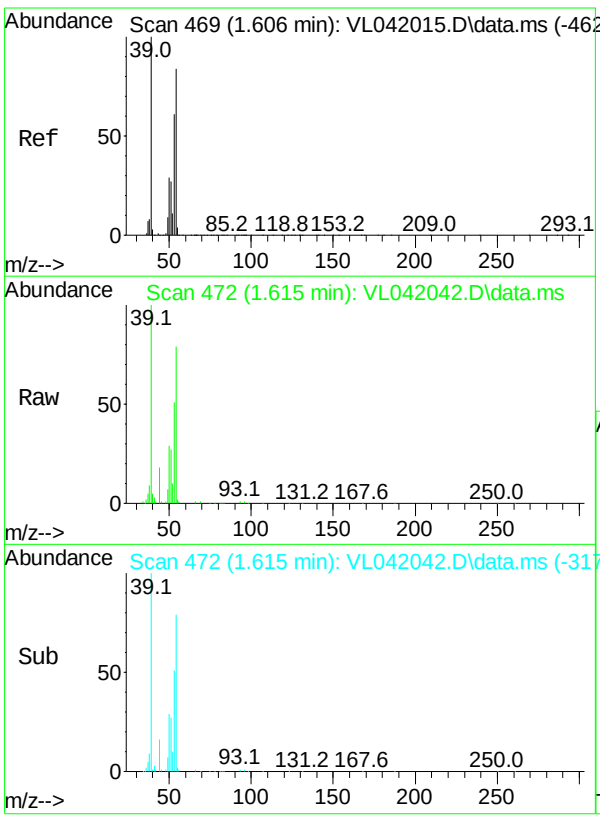
#15
Acetone
Concen: 1.131 ppbv
RT: 1.842 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 30058

Ion	Ratio	Lower	Upper
43	100		
58	28.8	22.9	34.3

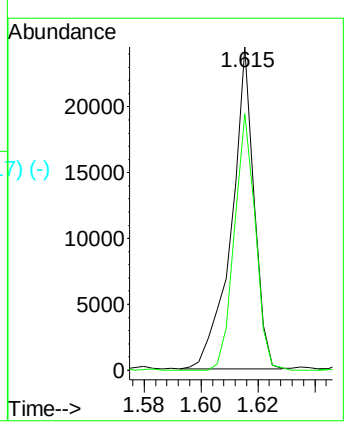




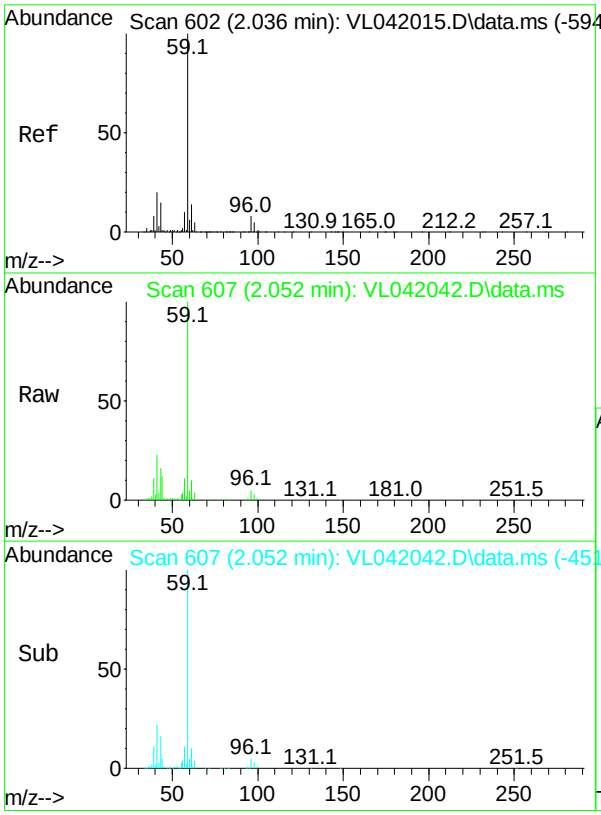
#16
1,3-Butadiene
Concen: 1.069 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 39 Resp: 13471

Ion	Ratio	Lower	Upper
39	100		
54	74.0	59.4	89.2



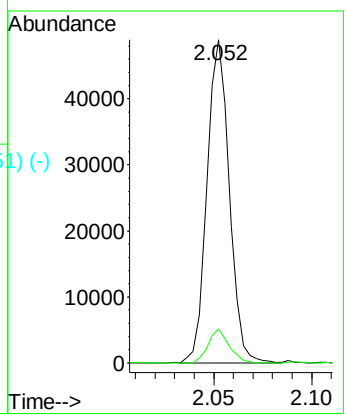
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

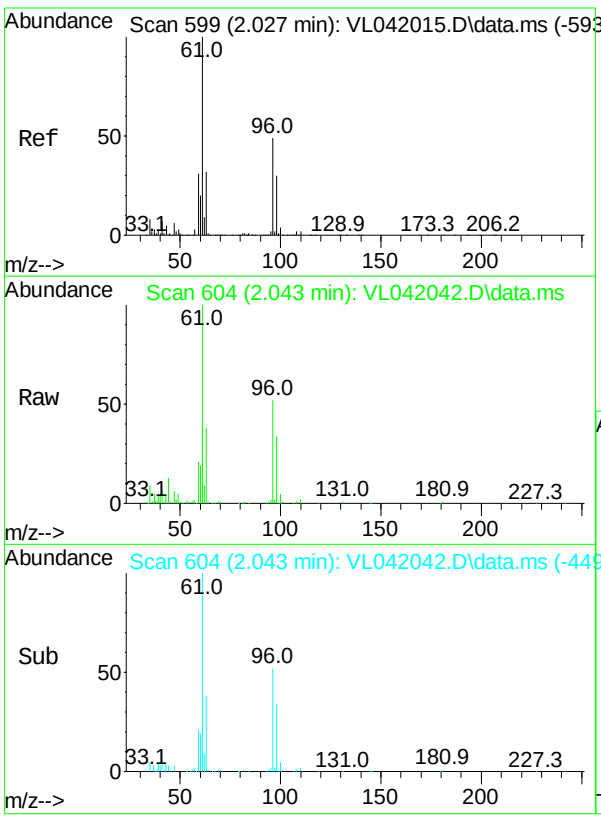


#17
tert-Butyl alcohol
Concen: 1.176 ppbv
RT: 2.052 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 59 Resp: 38684

Ion	Ratio	Lower	Upper
59	100		
57	9.9	9.2	13.8

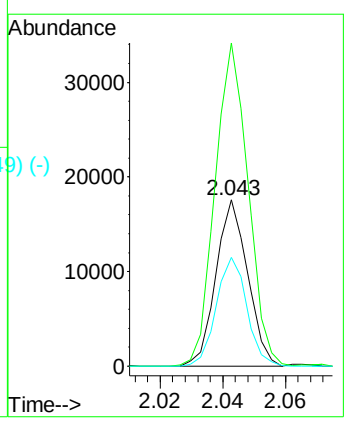


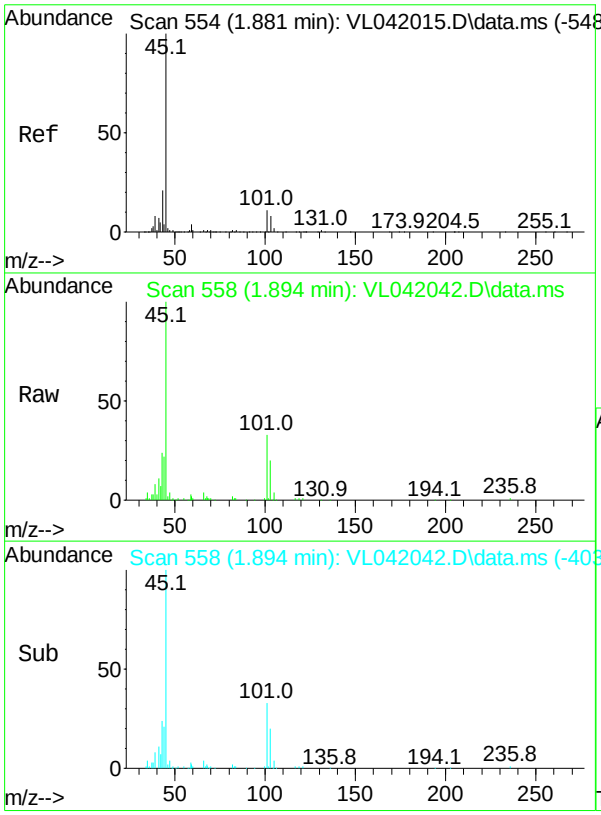


#18
1,1-Dichloroethene
Concen: 1.195 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 96 Resp: 12417

Ion	Ratio	Lower	Upper
96	100		
61	193.2	163.5	245.3
98	65.1	49.4	74.0

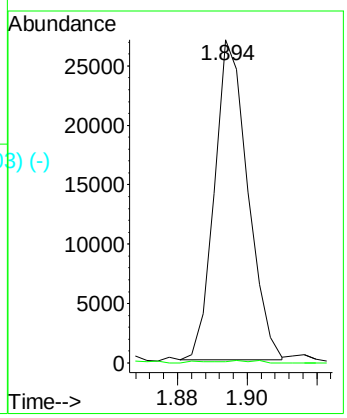


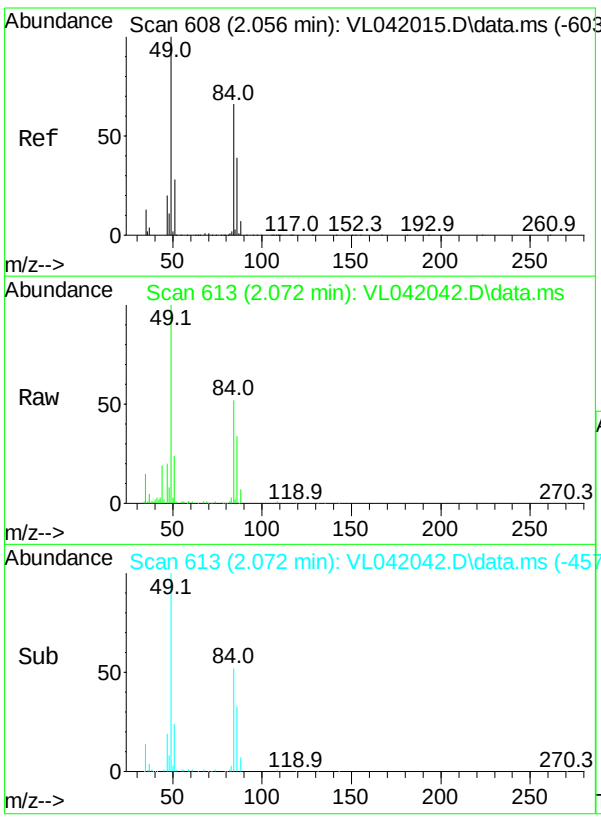


#19
Isopropyl Alcohol
Concen: 1.203 ppbv
RT: 1.894 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 45 Resp: 17927

Ion	Ratio	Lower	Upper
45	100		
58	48.2	36.2	54.4

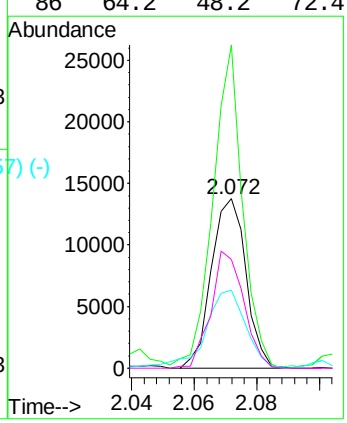




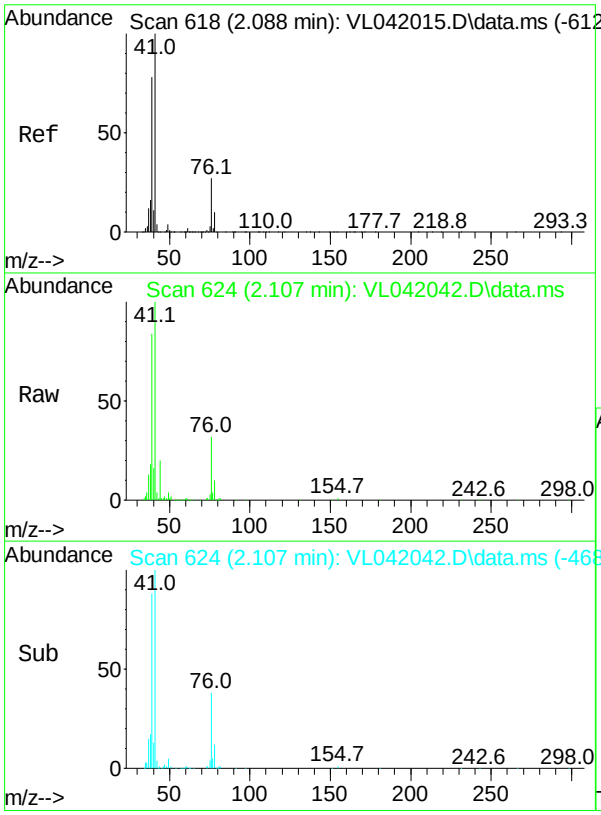
#20
Methylene Chloride
Concen: 1.058 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 84 Resp: 10587

Ion	Ratio	Lower	Upper
84	100		
49	190.7	121.0	181.4#
51	45.4	35.1	52.7
86	64.2	48.2	72.4



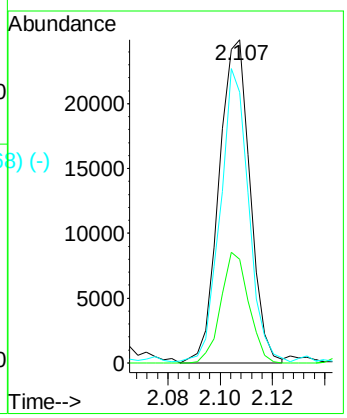
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

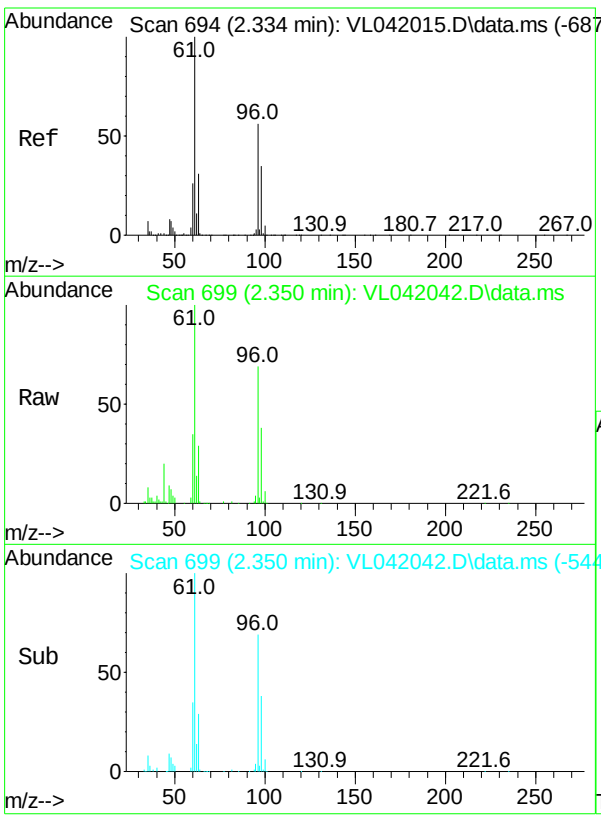


#21
Allyl Chloride
Concen: 1.069 ppbv
RT: 2.107 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 41 Resp: 20564

Ion	Ratio	Lower	Upper
41	100		
76	30.7	23.7	35.5
39	82.6	63.0	94.6

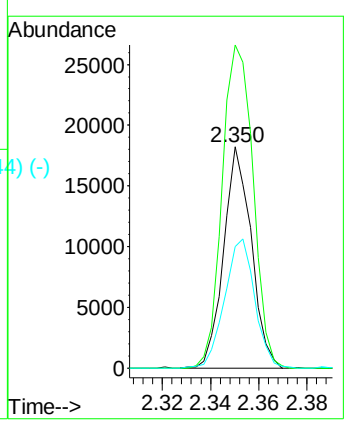




#22
trans-1,2-Dichloroethene
Concen: 1.283 ppbv
RT: 2.350 min Scan# 699
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

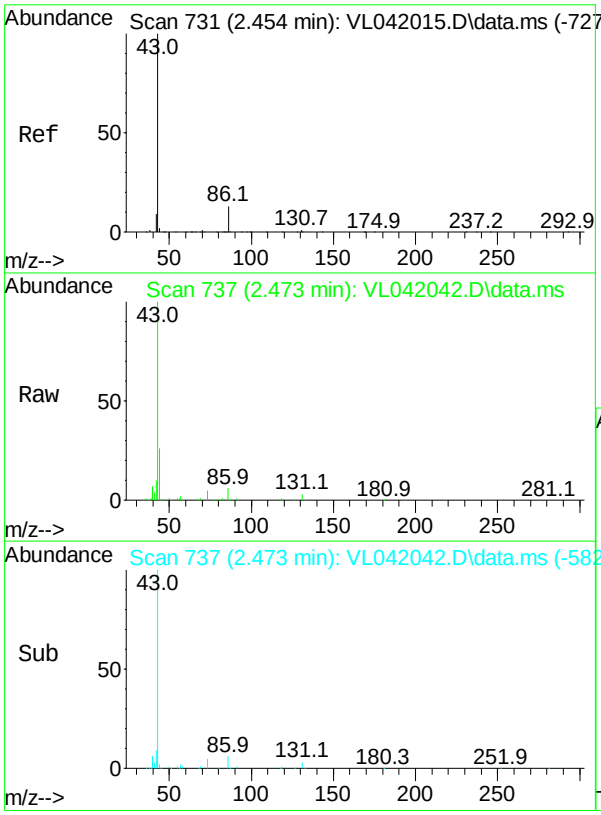
Tgt Ion: 96 Resp: 14475

Ion	Ratio	Lower	Upper
96	100		
61	145.8	142.3	213.5
98	54.9	50.2	75.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

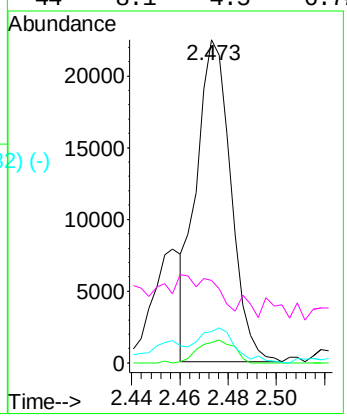
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

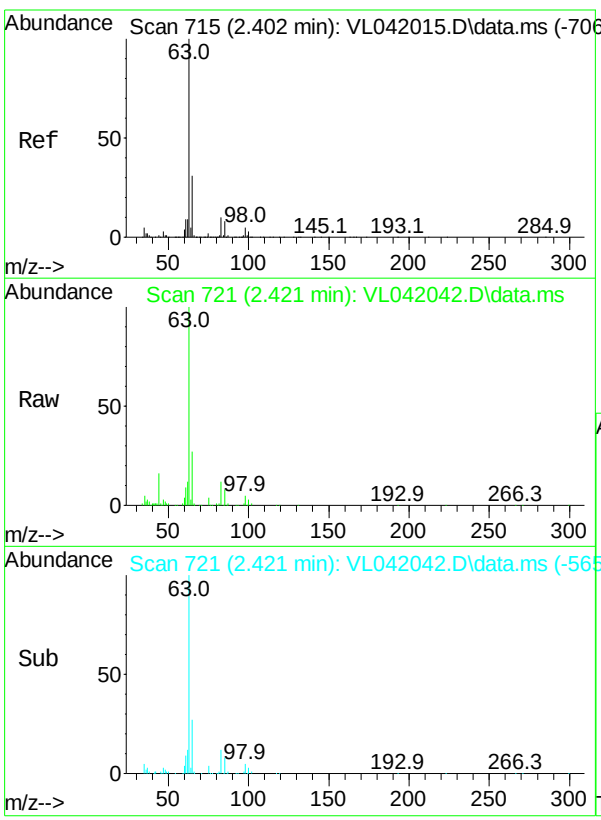


#23
Vinyl Acetate
Concen: 1.556 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 22394

Ion	Ratio	Lower	Upper
43	100		
86	6.3	8.1	12.1#
42	9.4	7.5	11.3
44	8.1	4.5	6.7#

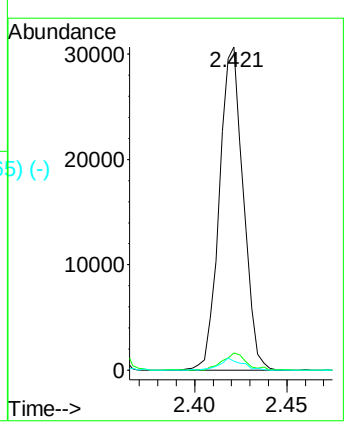


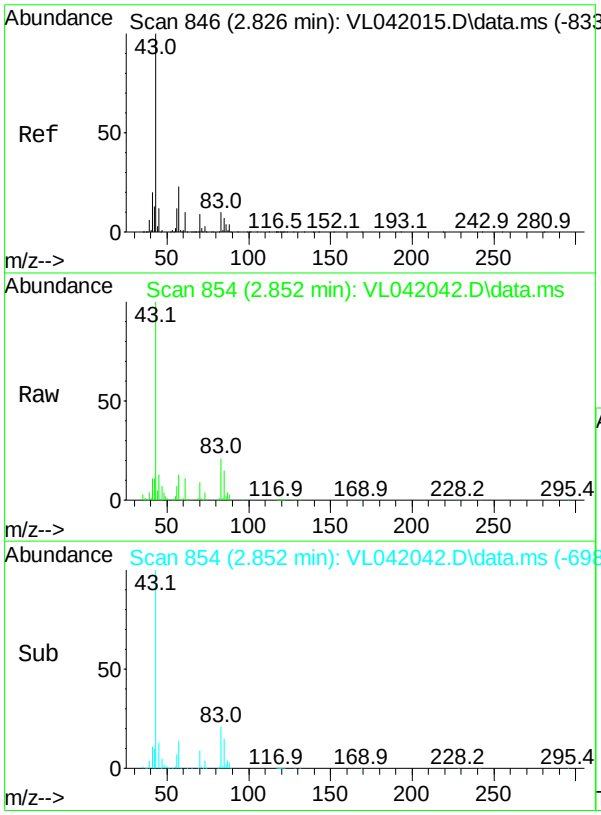


#24
1,1-Dichloroethane
Concen: 1.214 ppbv
RT: 2.421 min Scan# 721
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 63 Resp: 27804

Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.4	7.2
100	2.7	1.6	4.8

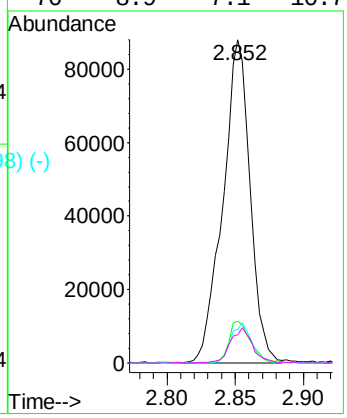


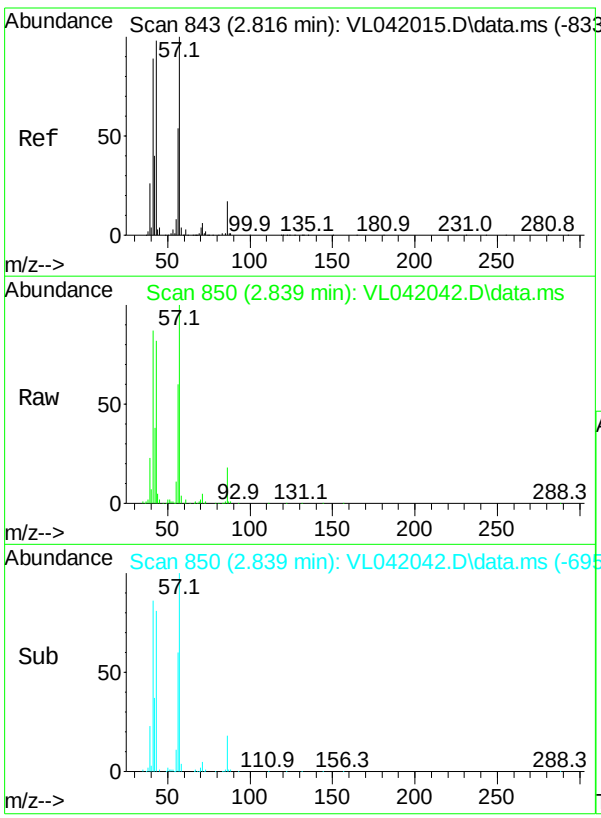


#25
Ethyl Acetate
Concen: 1.667 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 121593

Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.1	12.1
61	9.6	7.5	11.3
70	8.9	7.1	10.7

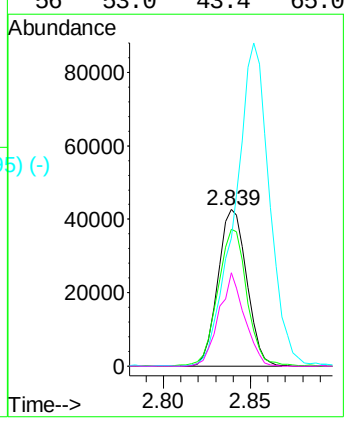




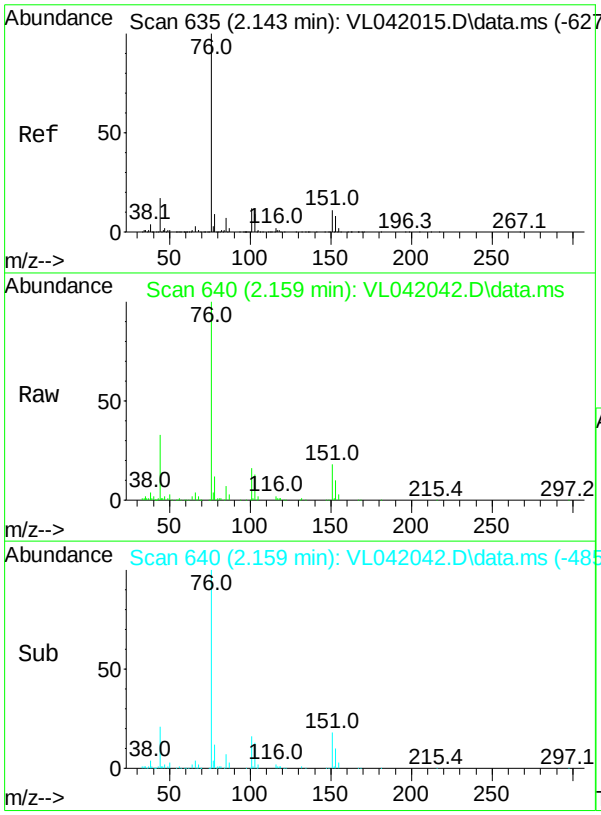
#26
Hexane
Concen: 1.671 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 57 Resp: 48912

Ion	Ratio	Lower	Upper
57	100		
41	89.0	73.2	109.8
43	249.1	200.8	301.2
56	53.0	43.4	65.0



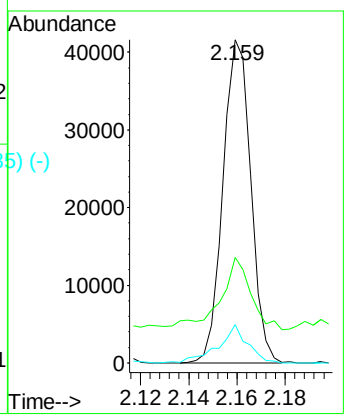
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

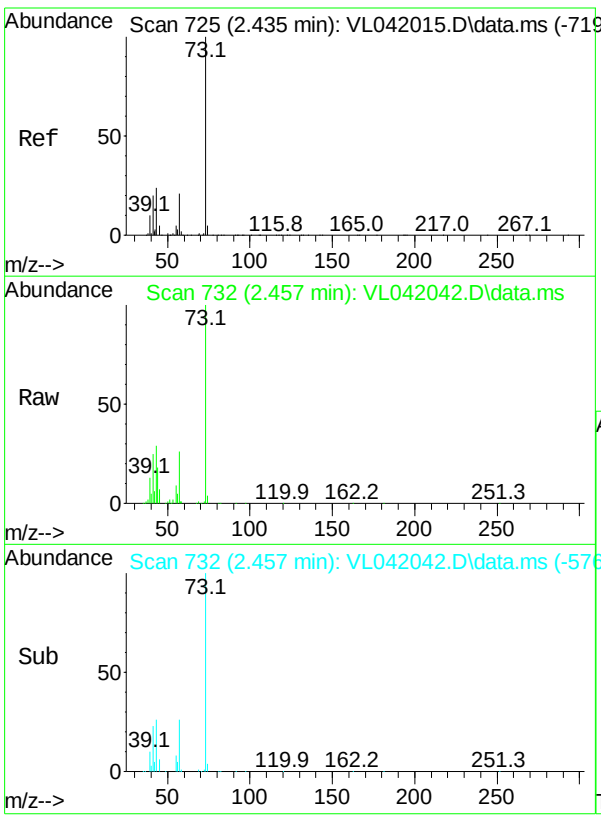


#27
Carbon Disulfide
Concen: 1.207 ppbv
RT: 2.159 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 76 Resp: 33222

Ion	Ratio	Lower	Upper
76	100		
44	53.5	18.1	27.1#
78	12.5	9.5	14.3

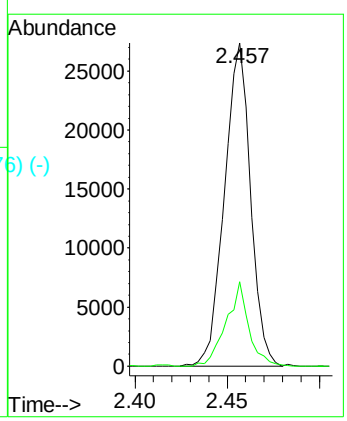




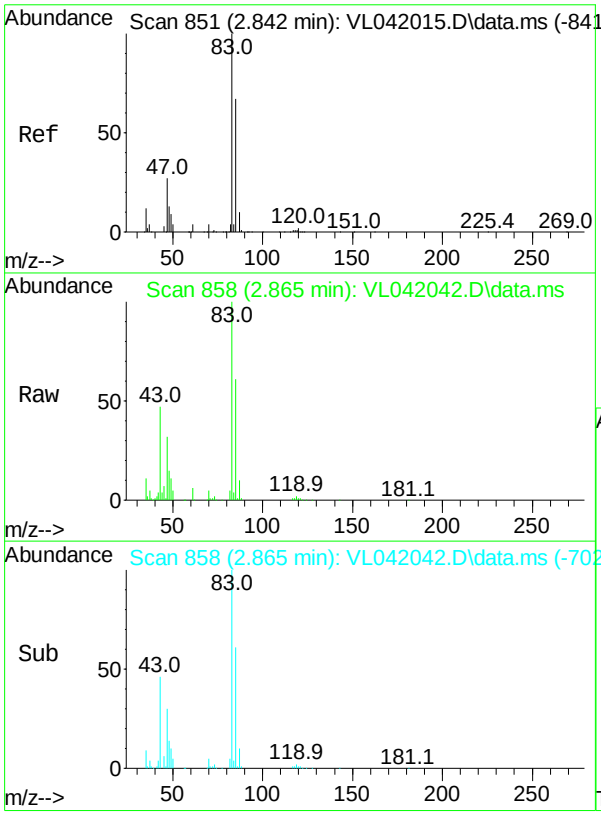
#28
Methyl tert-Butyl Ether
Concen: 1.507 ppbv
RT: 2.457 min Scan# 732
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 73 Resp: 26968

Ion	Ratio	Lower	Upper
73	100		
57	22.9	18.3	27.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

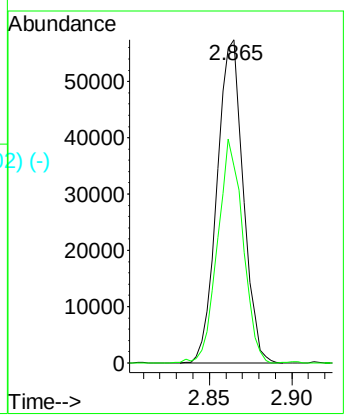


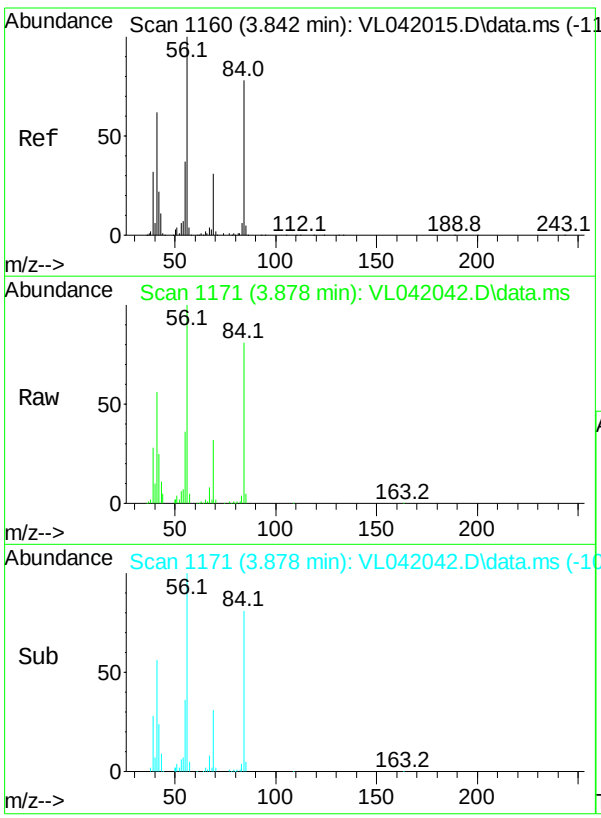
#29
Chloroform
Concen: 1.497 ppbv
RT: 2.865 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 63463

Ion	Ratio	Lower	Upper
83	100		
85	60.8	53.8	80.6

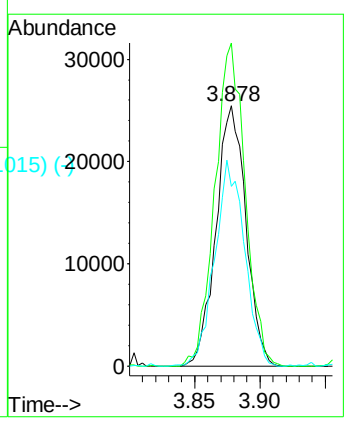


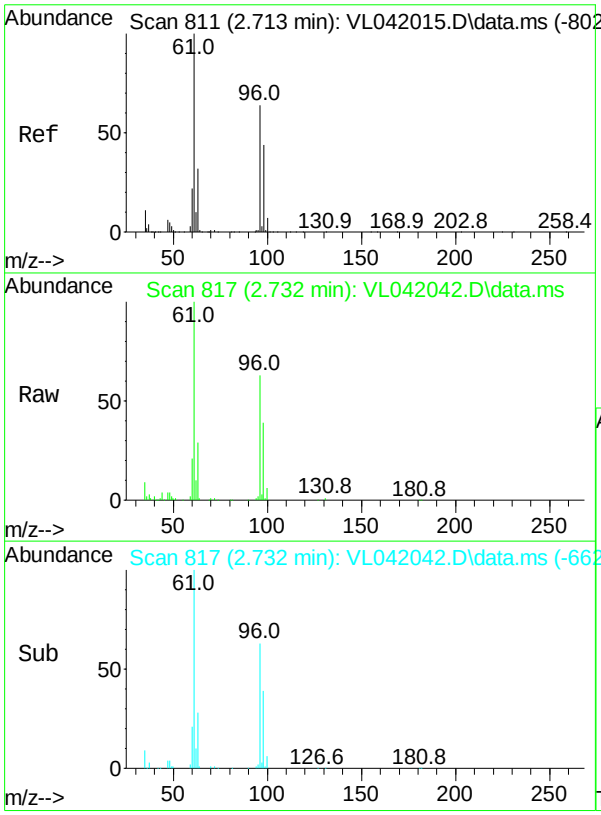


#30
Cyclohexane
Concen: 1.702 ppbv
RT: 3.878 min Scan# 1171
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 84 Resp: 40420

Ion	Ratio	Lower	Upper
84	100		
56	125.8	99.5	149.3
41	79.4	62.2	93.2



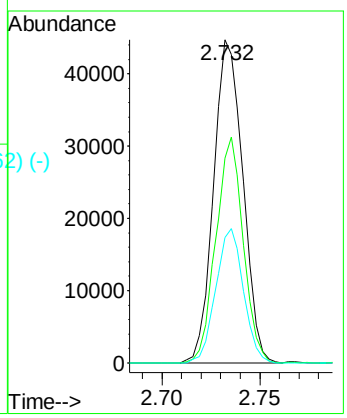


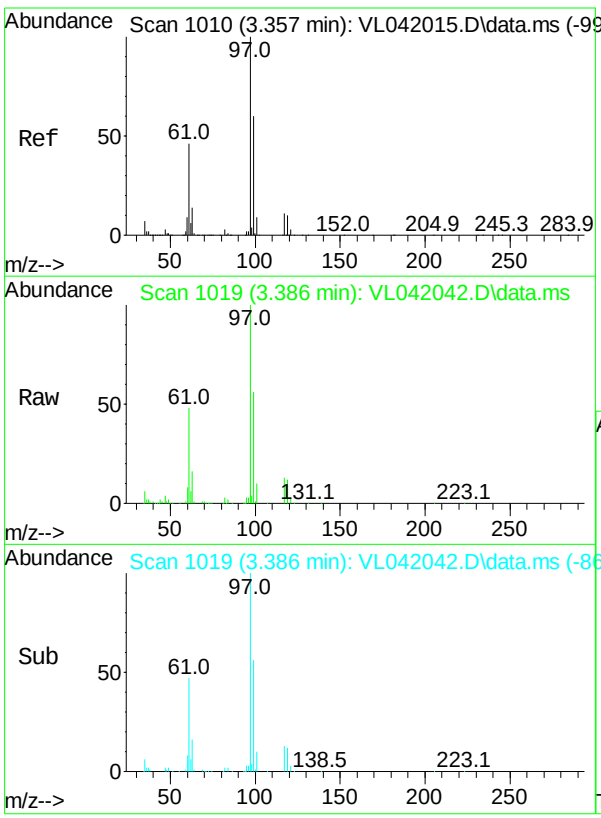
#31
cis-1,2-Dichloroethene
Concen: 1.614 ppbv
RT: 2.732 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 61 Resp: 46690

Ion	Ratio	Lower	Upper
61	100		
96	63.4	51.6	77.4
98	38.9	34.8	52.2

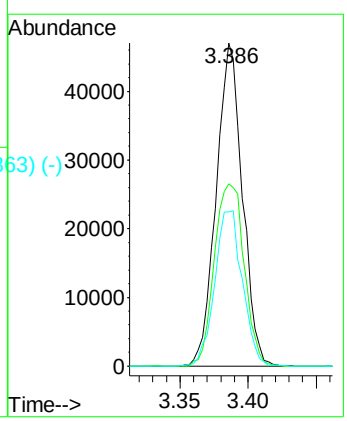


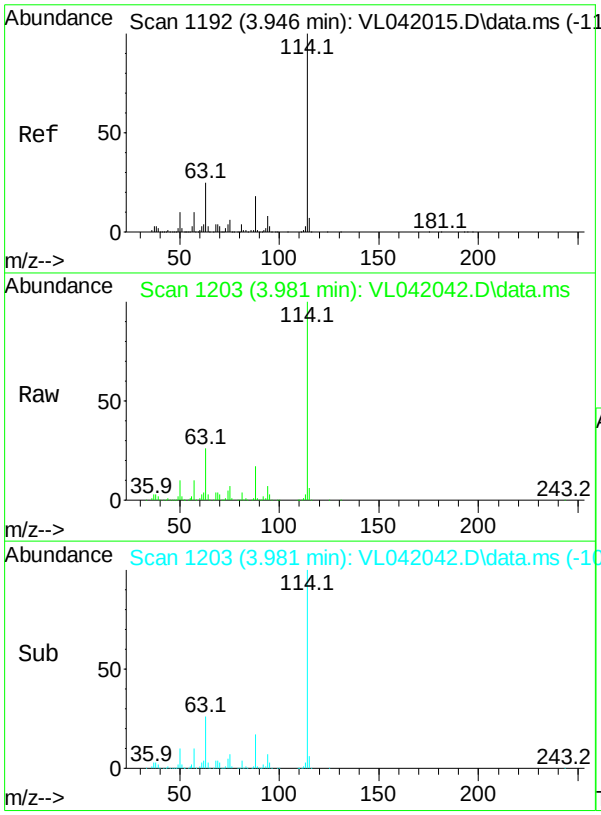


#32
1,1,1-Trichloroethane
Concen: 1.331 ppbv
RT: 3.386 min Scan# 1019
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 97 Resp: 62586

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.4
61	50.9	37.9	56.9

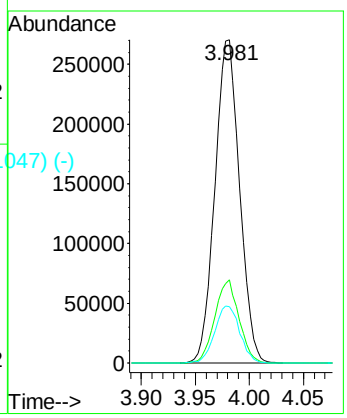




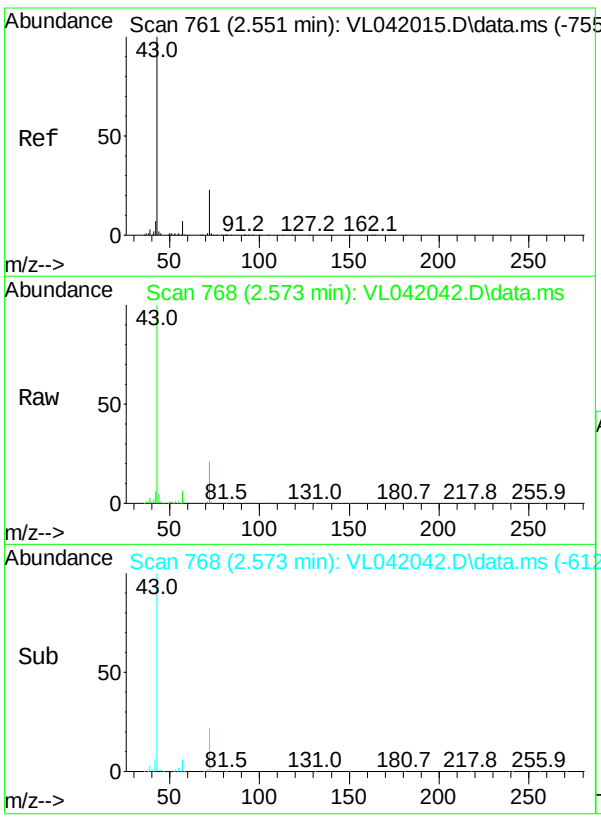
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:114 Resp: 427051

Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.2
88	17.8	14.4	21.6



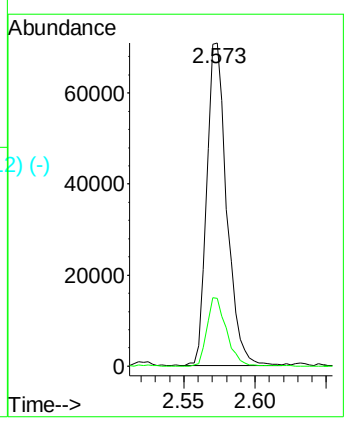
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

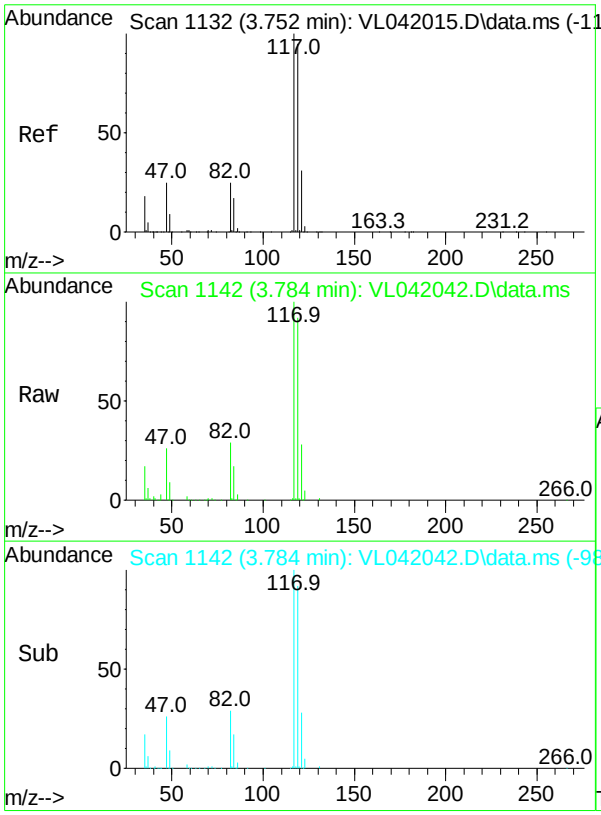


#34
2-Butanone
Concen: 1.888 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 69370

Ion	Ratio	Lower	Upper
43	100		
72	20.7	18.3	27.5



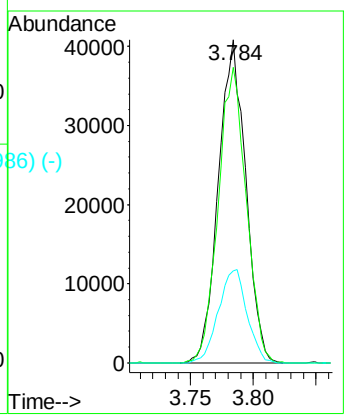


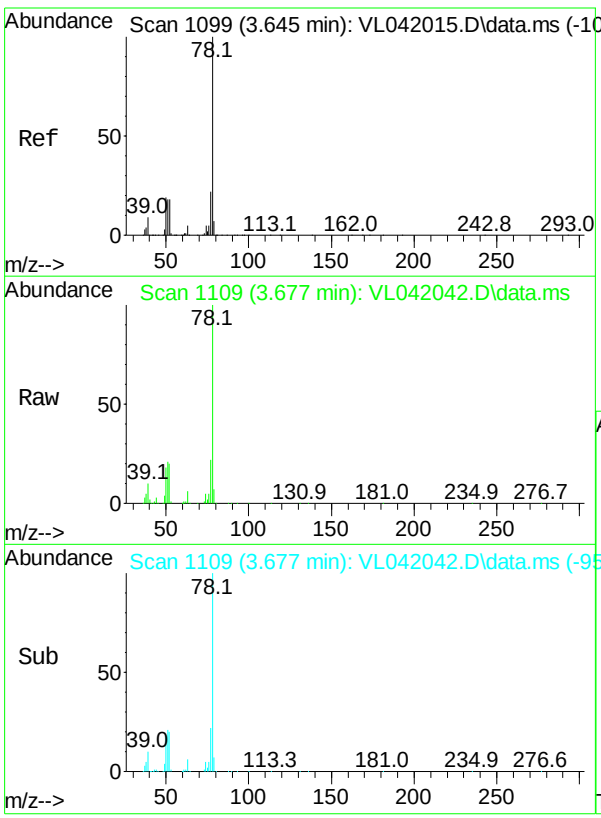
#85
Carbon Tetrachloride
Concen: 1.493 ppbv
RT: 3.784 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 61895

Ion	Ratio	Lower	Upper
117	100		
119	91.5	75.8	113.6
121	28.5	24.6	36.8

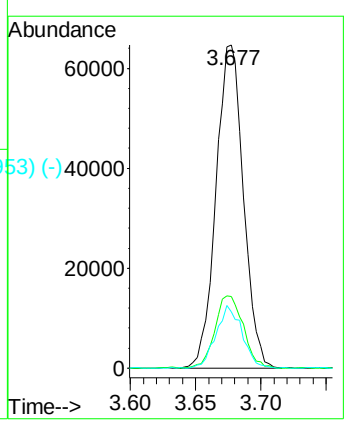


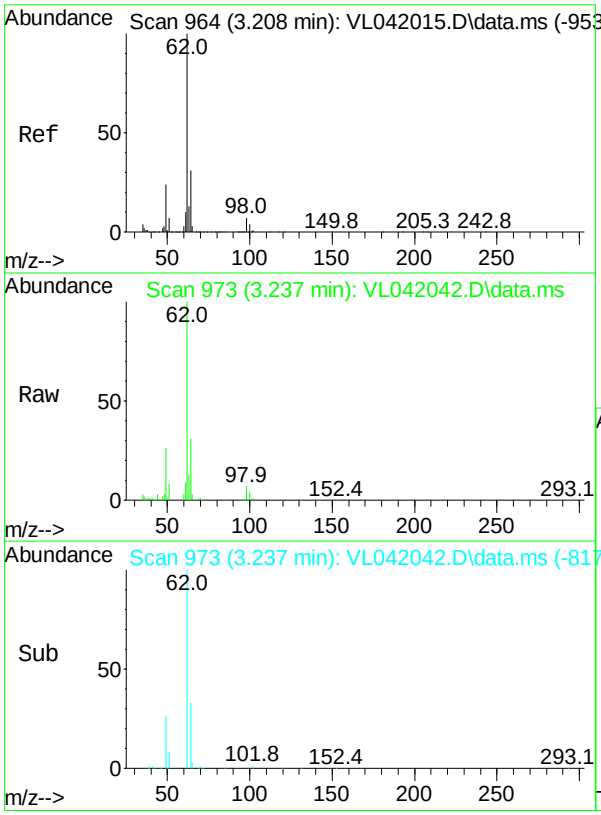


#36
Benzene
Concen: 1.822 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 78 Resp: 94277

Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.0	27.0
50	17.4	15.2	22.8



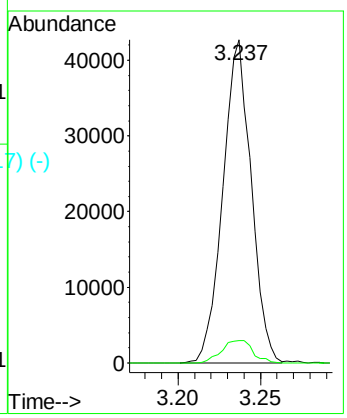


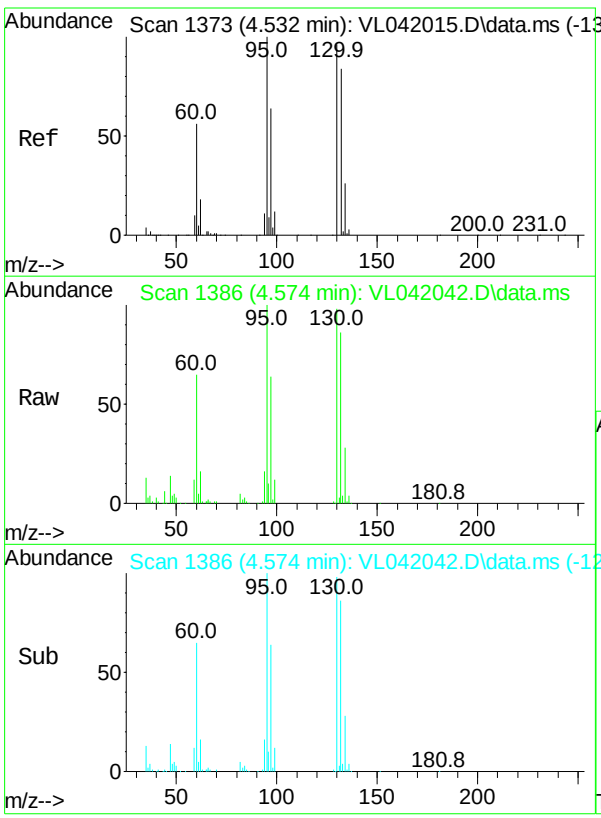
#37
1,2-Dichloroethane
Concen: 1.734 ppbv
RT: 3.237 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 51050

Ion	Ratio	Lower	Upper
62	100		
98	7.6	5.7	8.5

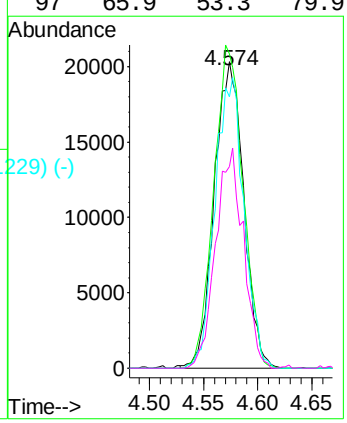


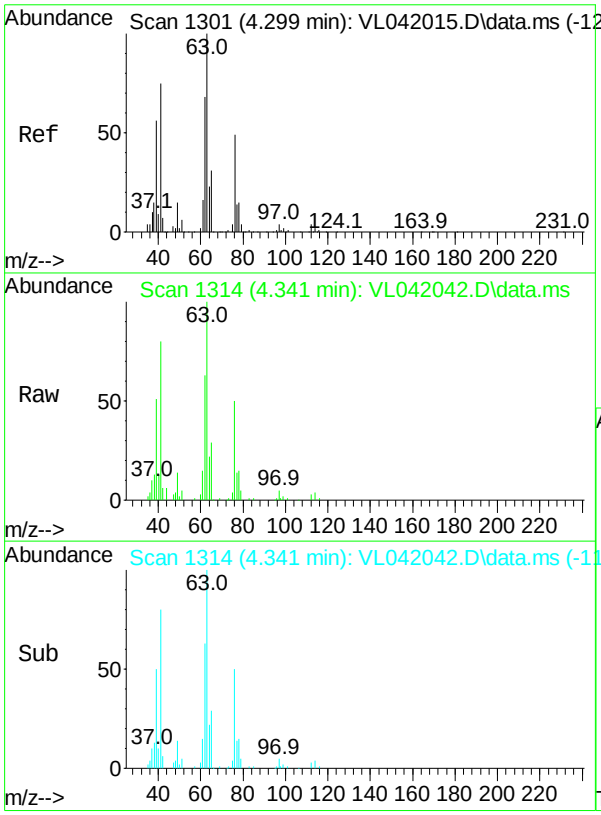


#38
Trichloroethene
Concen: 1.817 ppbv
RT: 4.574 min Scan# 1386
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:130 Resp: 38184

Ion	Ratio	Lower	Upper
130	100		
95	102.6	82.8	124.2
132	88.7	70.0	105.0
97	65.9	53.3	79.9

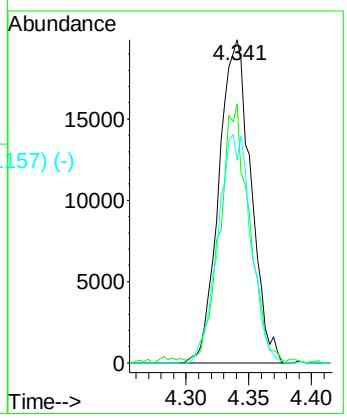




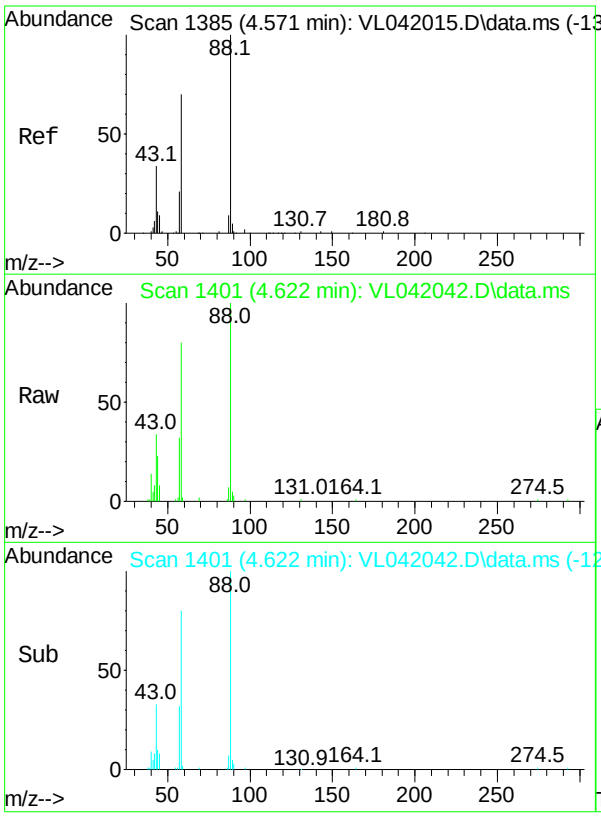
#39
1,2-Dichloropropane
Concen: 1.866 ppbv
RT: 4.341 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 63 Resp: 35396

Ion	Ratio	Lower	Upper
63	100		
41	79.2	60.1	90.1
62	62.8	54.0	81.0



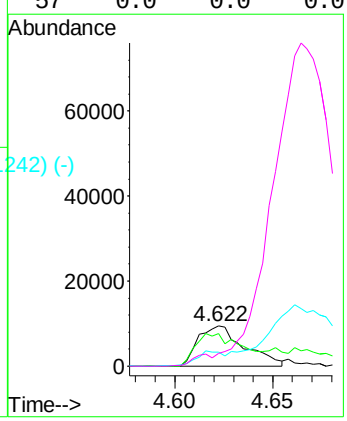
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

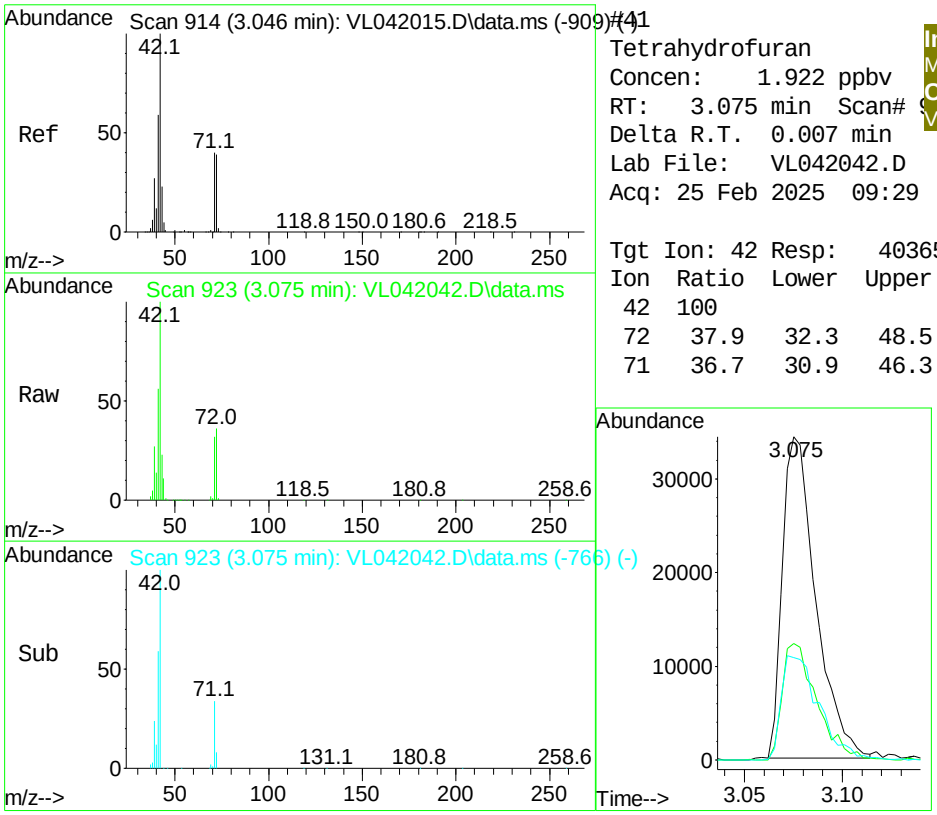


#40
1,4-Dioxane
Concen: 1.565 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.013 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 88 Resp: 15442

Ion	Ratio	Lower	Upper
88	100		
58	138.2	58.1	87.1#
43	0.0	27.3	40.9#
57	0.0	0.0	0.0



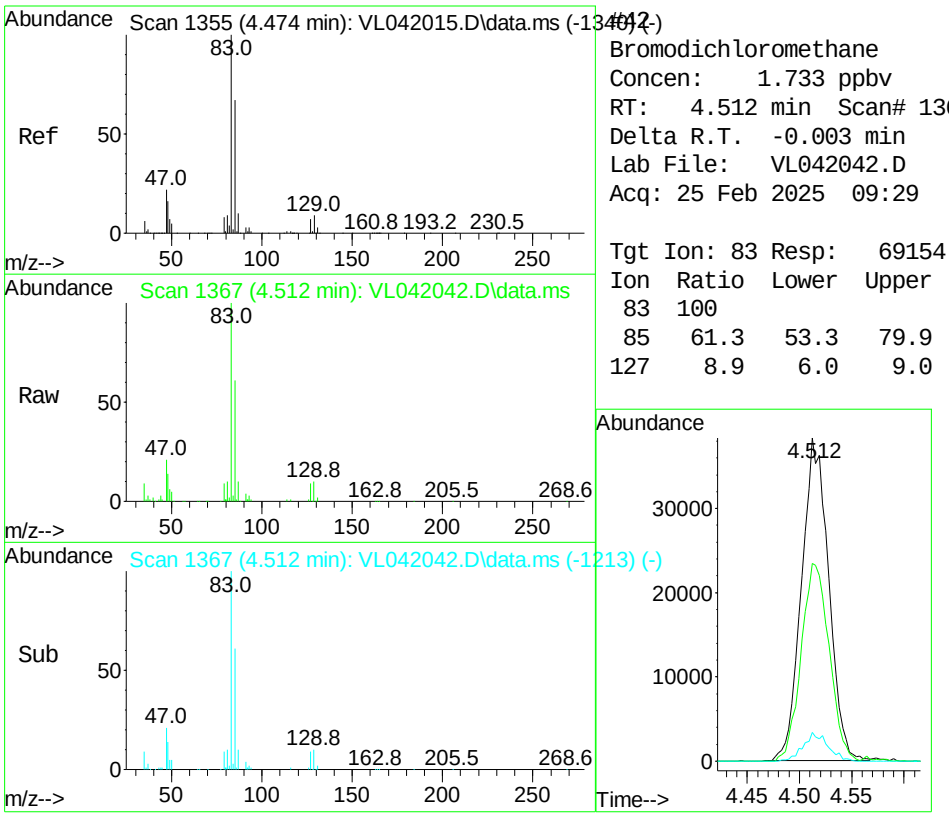


#41
Tetrahydrofuran
Concen: 1.922 ppbv
RT: 3.075 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 42 Resp: 40365

Ion	Ratio	Lower	Upper
42	100		
72	37.9	32.3	48.5
71	36.7	30.9	46.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

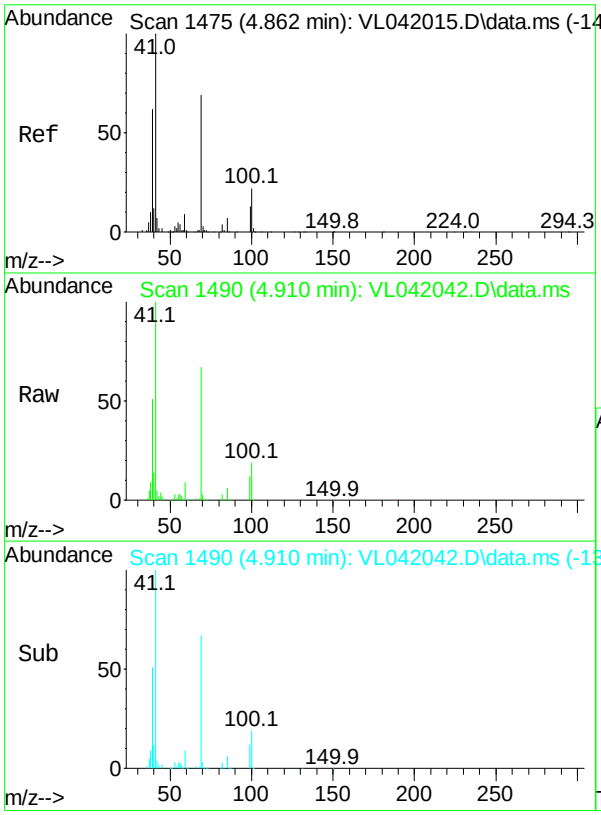


#42
Bromodichloromethane
Concen: 1.733 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 83 Resp: 69154

Ion	Ratio	Lower	Upper
83	100		
85	61.3	53.3	79.9
127	8.9	6.0	9.0

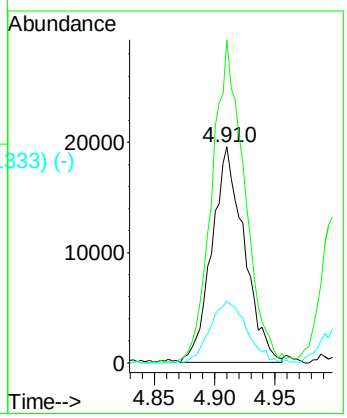
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

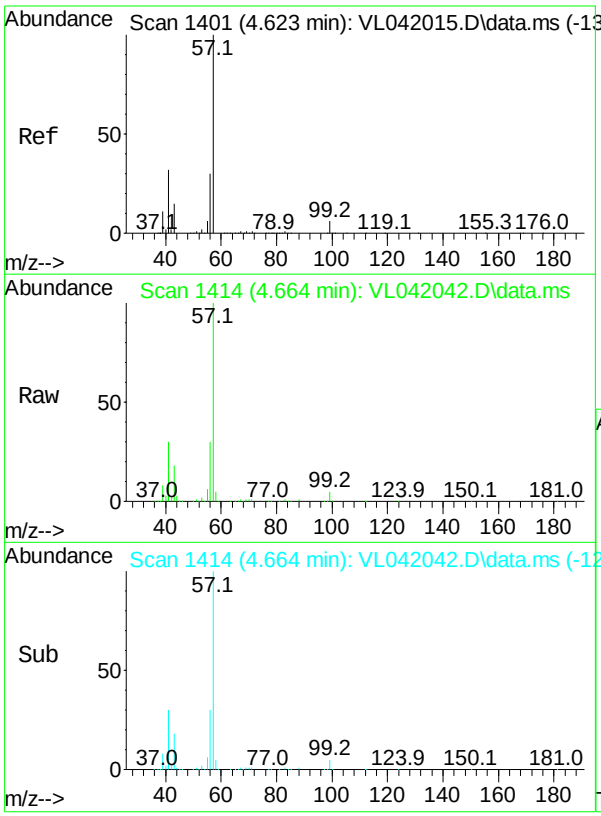


#43
Methyl Methacrylate
Concen: 1.543 ppbv
RT: 4.910 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 69 Resp: 36393

Ion	Ratio	Lower	Upper
69	100		
41	151.7	114.9	172.3
100	33.0	28.8	43.2

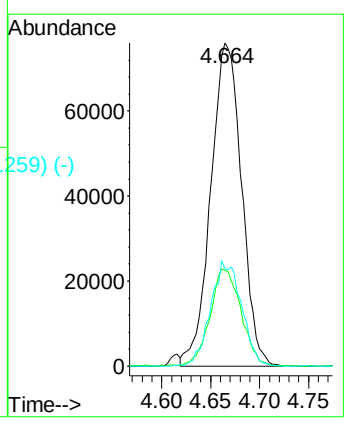


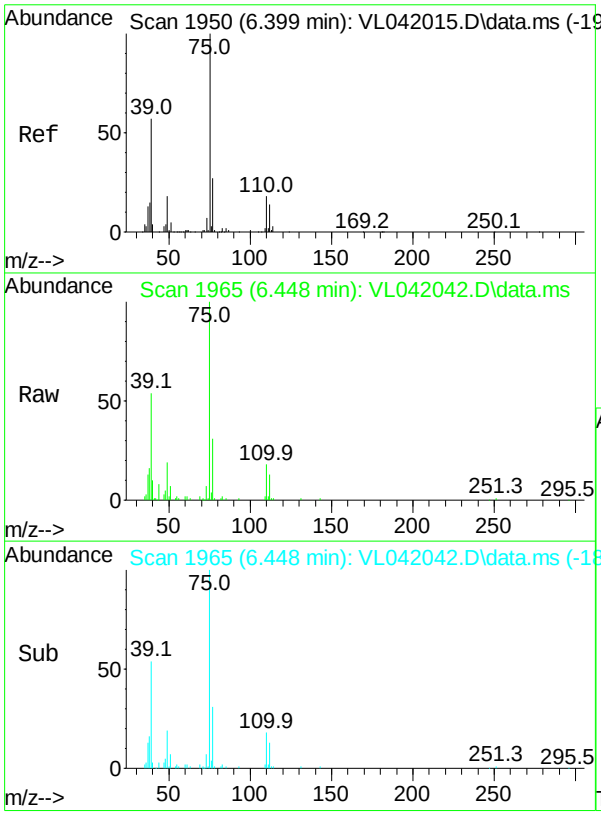


#44
2,2,4-Trimethylpentane
Concen: 1.901 ppbv
RT: 4.664 min Scan# 1414
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 57 Resp: 166945

Ion	Ratio	Lower	Upper
57	100		
41	30.6	25.9	38.9
56	32.5	24.9	37.3



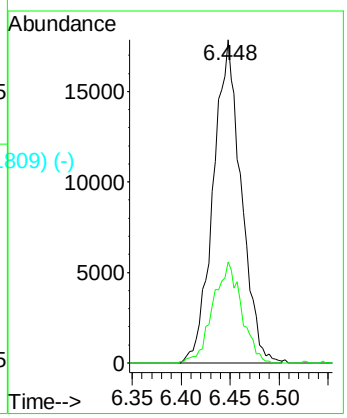


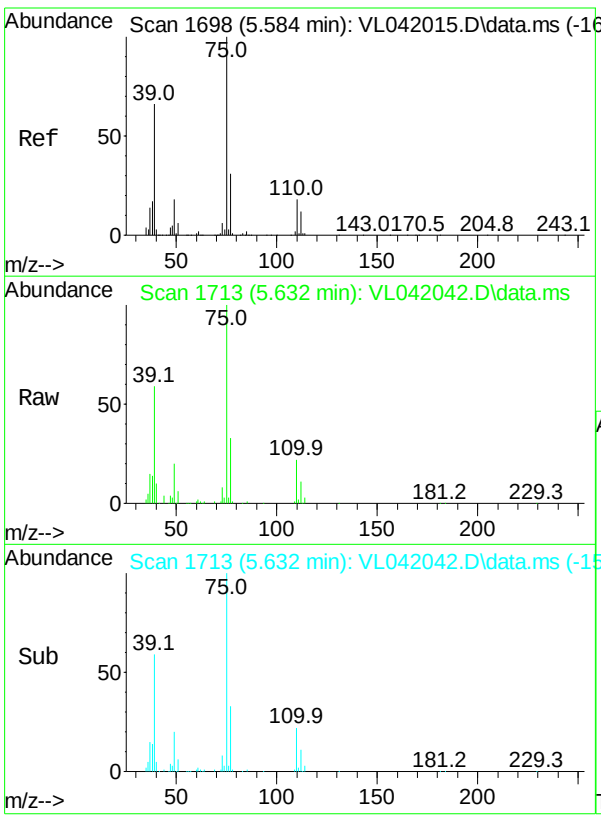
#45
t-1,3-Dichloropropene
Concen: 1.604 ppbv
RT: 6.448 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 75 Resp: 35707

Ion	Ratio	Lower	Upper
75	100		
77	31.3	22.1	33.1

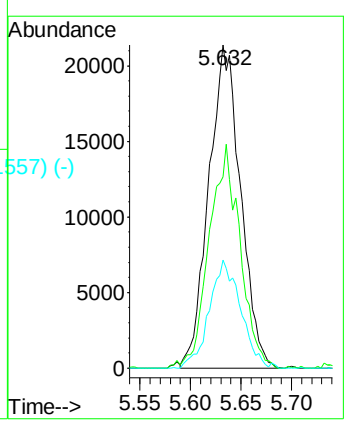


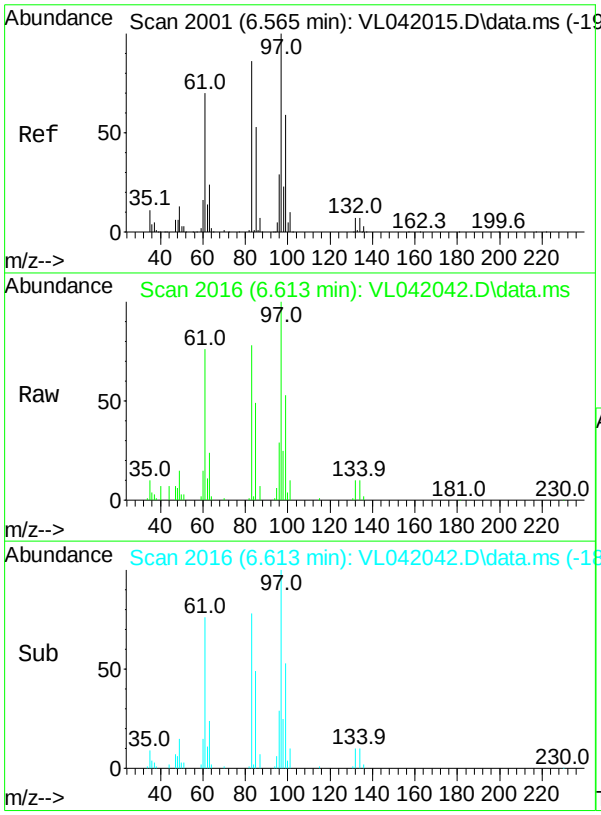


#46
cis-1,3-Dichloropropene
Concen: 1.658 ppbv
RT: 5.632 min Scan# 1713
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 75 Resp: 46835

Ion	Ratio	Lower	Upper
75	100		
39	59.1	52.2	78.4
77	33.4	24.5	36.7



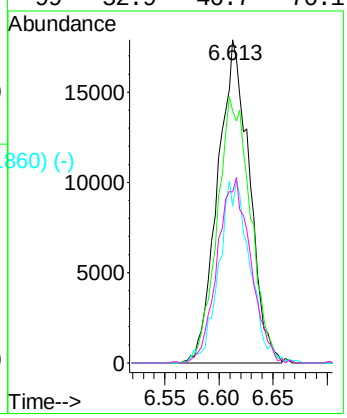


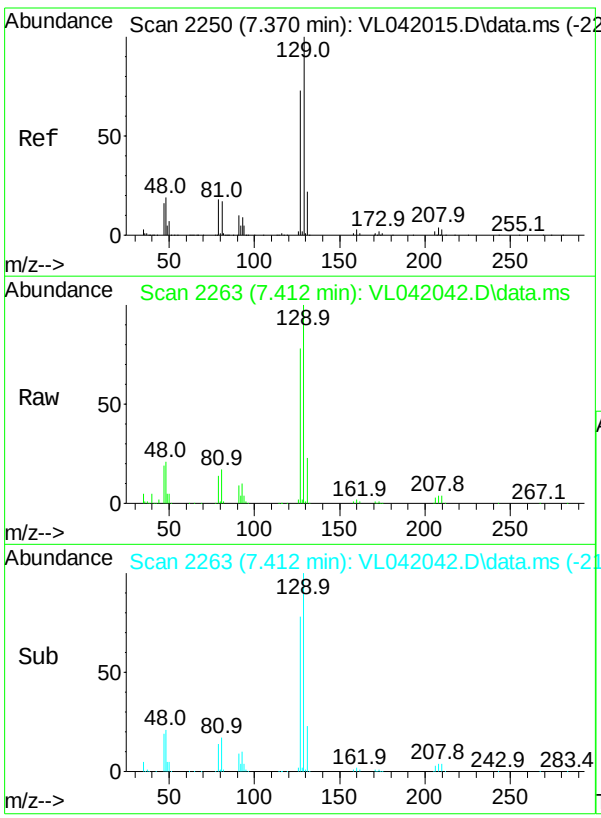
#47
1,1,2-Trichloroethane
Concen: 1.822 ppbv
RT: 6.613 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 97 Resp: 36368

Ion	Ratio	Lower	Upper
97	100		
83	78.1	68.6	102.8
85	48.5	42.2	63.4
99	52.9	46.7	70.1

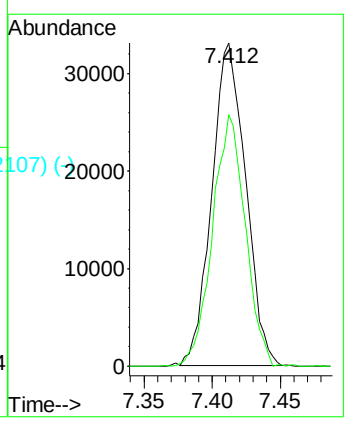




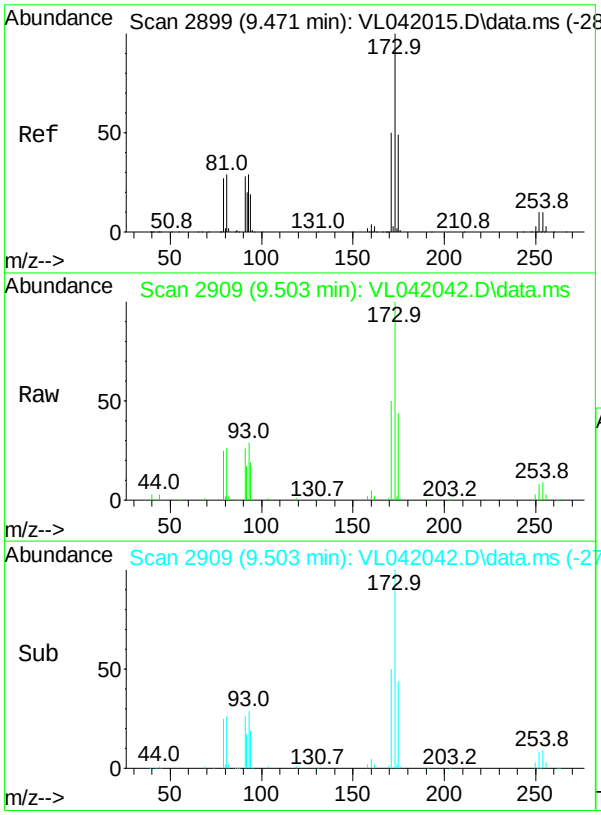
#48
Dibromochloromethane
Concen: 1.703 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:129 Resp: 56931

Ion	Ratio	Lower	Upper
129	100		
127	75.6	38.2	114.6



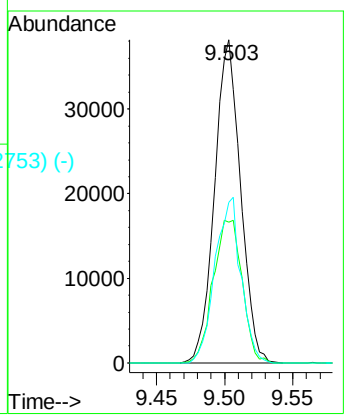
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

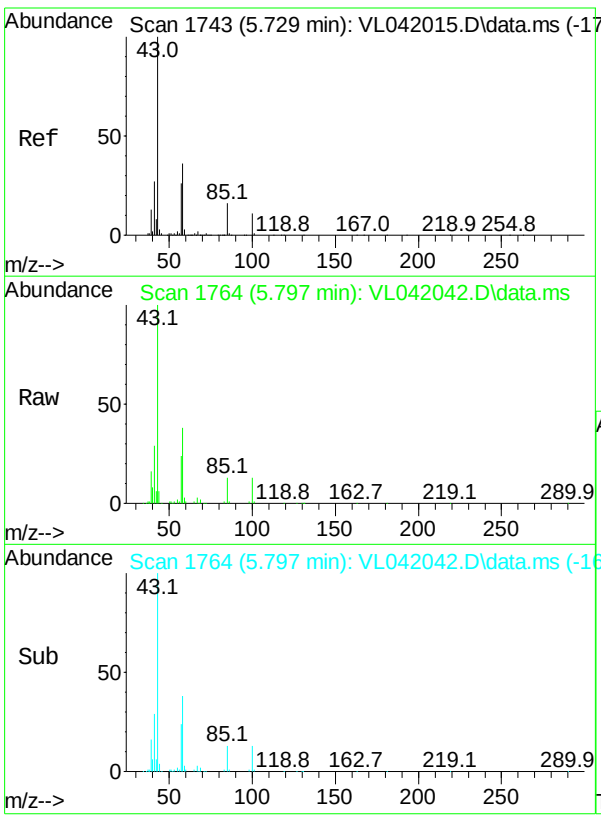


#49
Bromoform
Concen: 1.833 ppbv
RT: 9.503 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:173 Resp: 50259

Ion	Ratio	Lower	Upper
173	100		
175	49.3	39.3	58.9
171	51.1	41.4	62.2

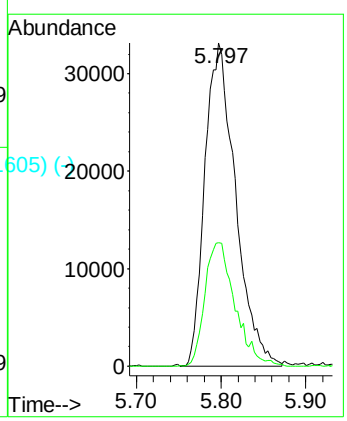


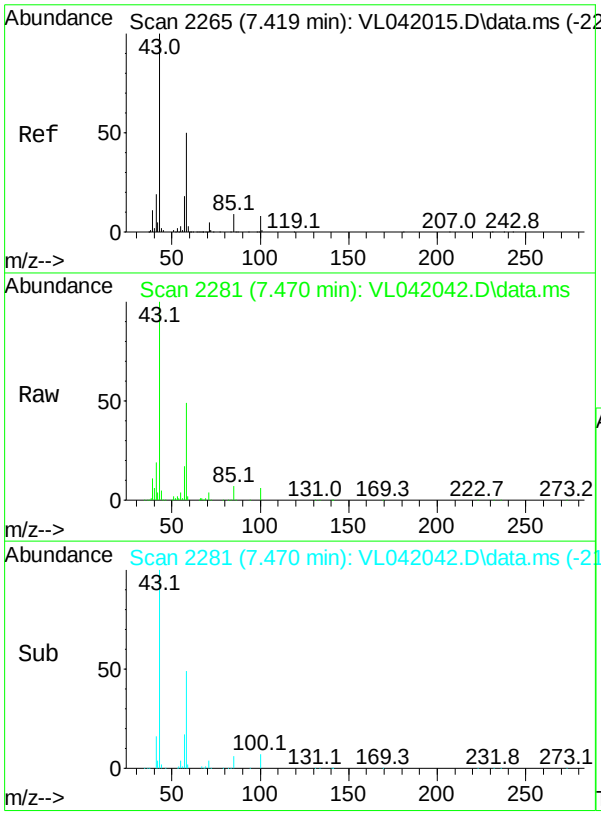


#50
4-Methyl-2-Pentanone
Concen: 1.474 ppbv
RT: 5.797 min Scan# 1764
Delta R.T. 0.013 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 83246

Ion	Ratio	Lower	Upper
43	100		
58	37.6	29.4	44.0

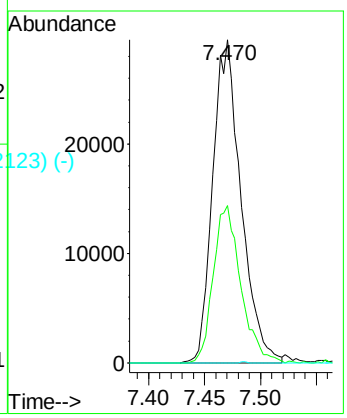




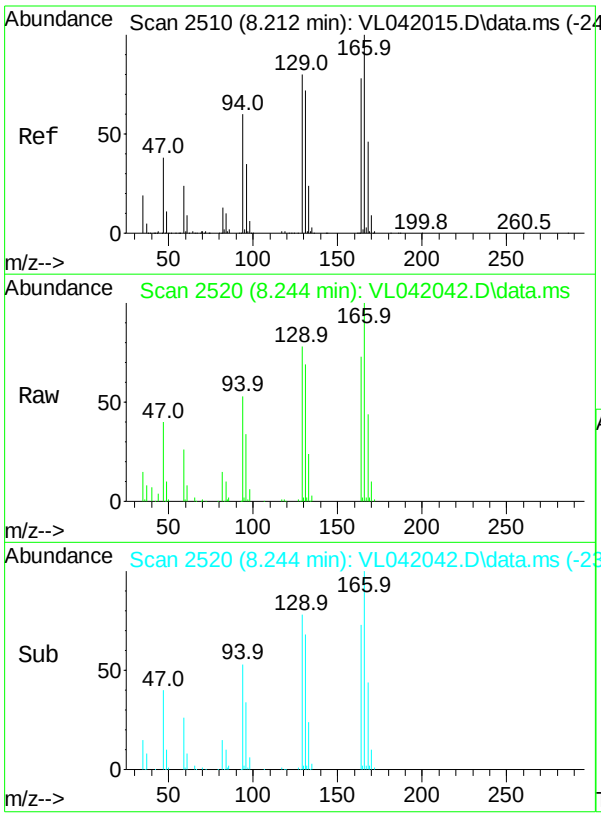
#51
2-Hexanone
Concen: 1.124 ppbv
RT: 7.470 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 43 Resp: 51926

Ion	Ratio	Lower	Upper
43	100		
58	47.5	41.4	62.0
98	0.0	0.0	0.0



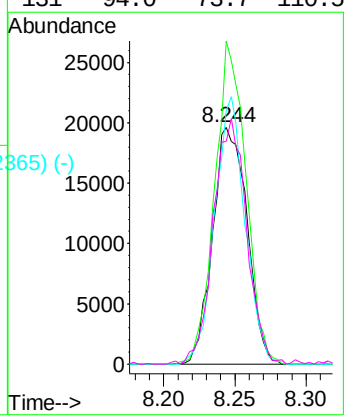
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

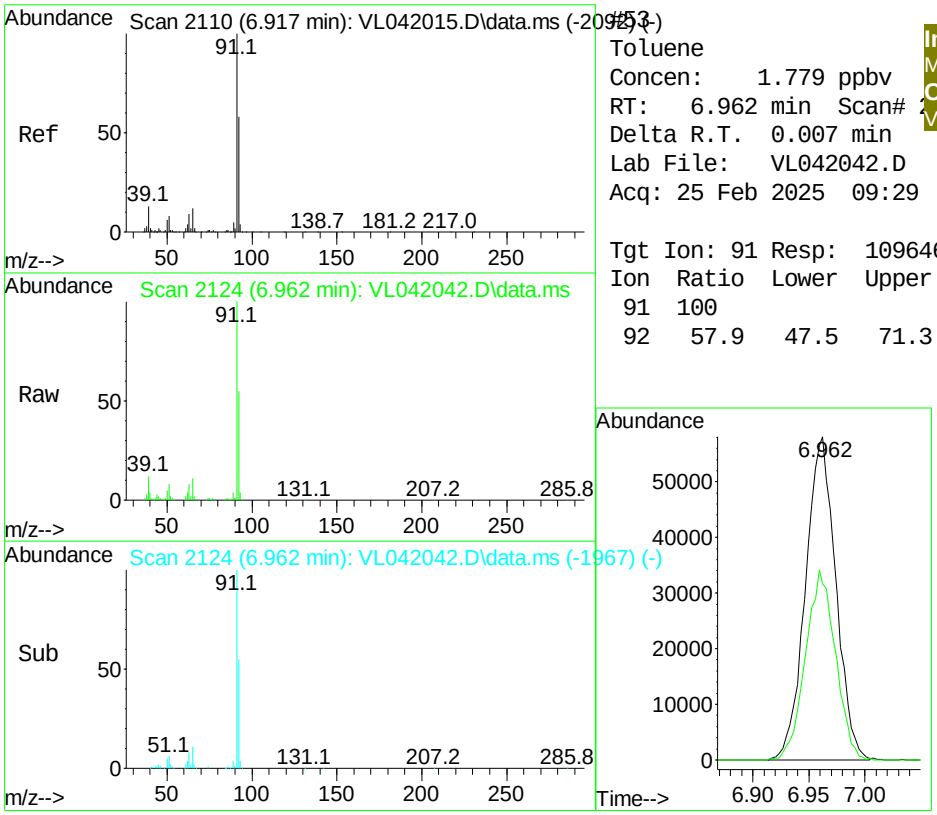


#52
Tetrachloroethene
Concen: 1.822 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:164 Resp: 32874

Ion	Ratio	Lower	Upper
164	100		
166	136.1	102.2	153.2
129	107.1	82.2	123.4
131	94.0	73.7	110.5



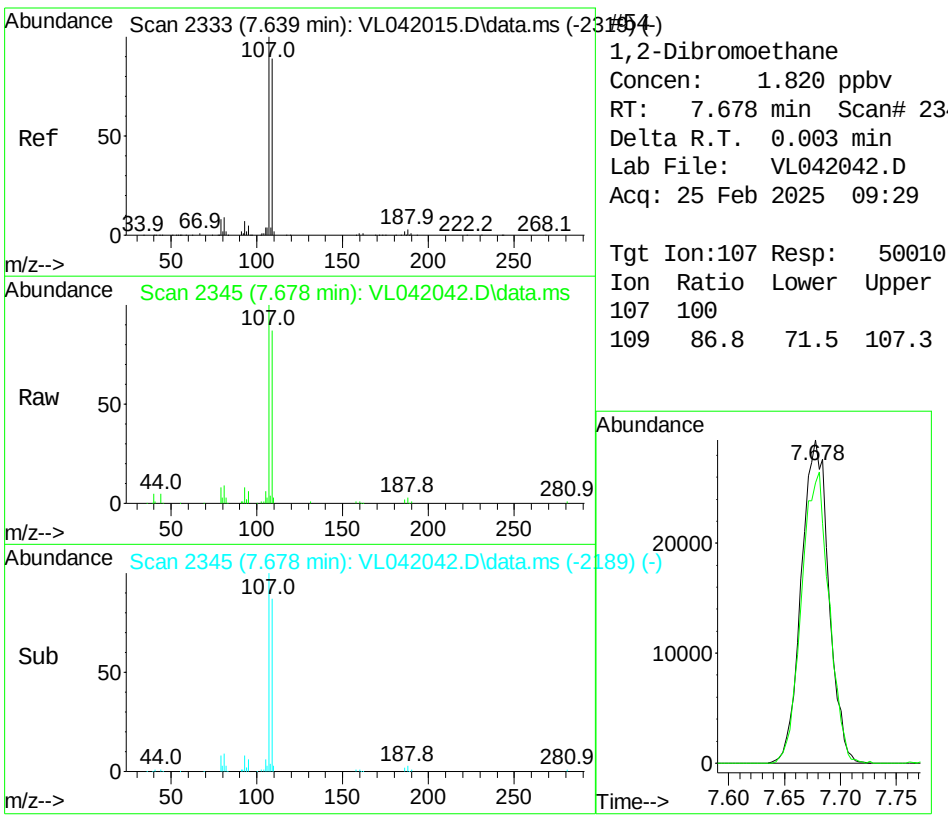


#53
Toluene
Concen: 1.779 ppbv
RT: 6.962 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 109646

Ion	Ratio	Lower	Upper
91	100		
92	57.9	47.5	71.3

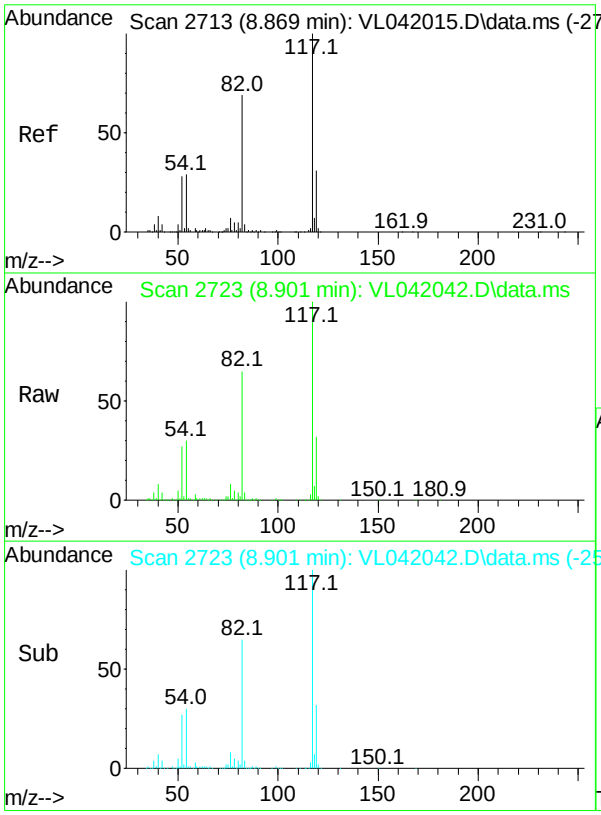
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



#54
1,2-Dibromoethane
Concen: 1.820 ppbv
RT: 7.678 min Scan# 2345
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:107 Resp: 50010

Ion	Ratio	Lower	Upper
107	100		
109	86.8	71.5	107.3

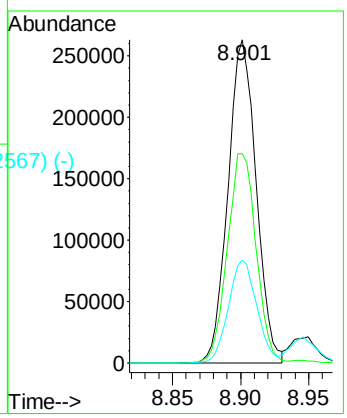


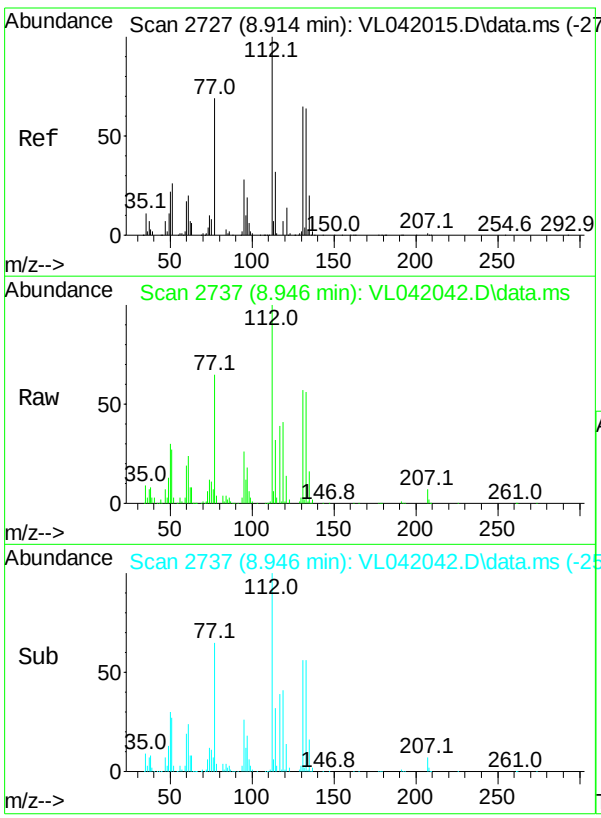
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 377910

Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.7	83.5
119	32.4	25.2	37.8

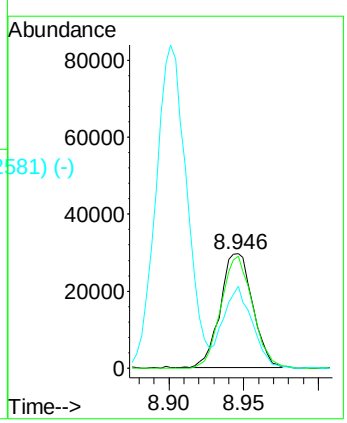


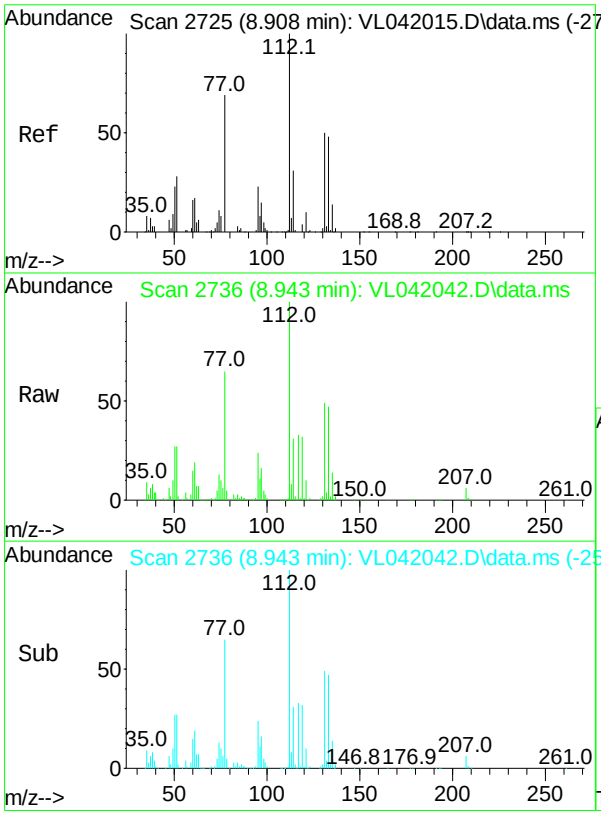


#56
1,1,1,2-Tetrachloroethane
Concen: 1.662 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:131 Resp: 44947

Ion	Ratio	Lower	Upper
131	100		
133	95.0	77.8	116.8
119	61.8	49.1	73.7

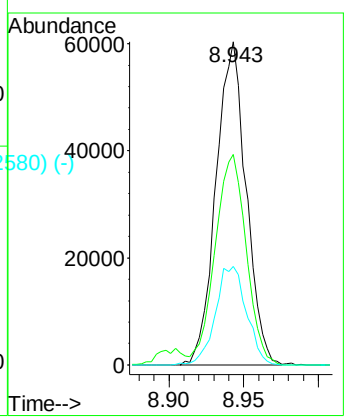


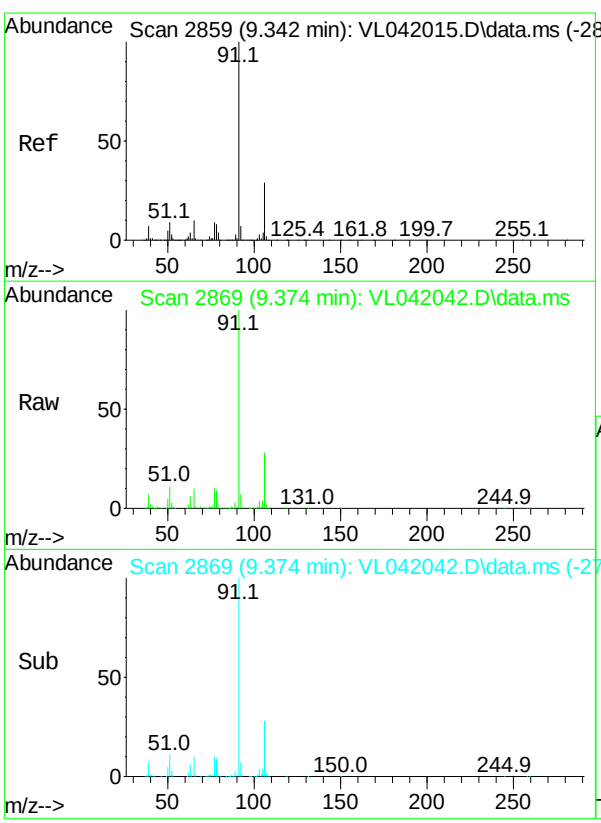


#57
Chlorobenzene
Concen: 1.906 ppbv
RT: 8.943 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:112 Resp: 84749

Ion	Ratio	Lower	Upper
112	100		
77	65.2	56.2	84.2
114	30.6	28.2	34.4

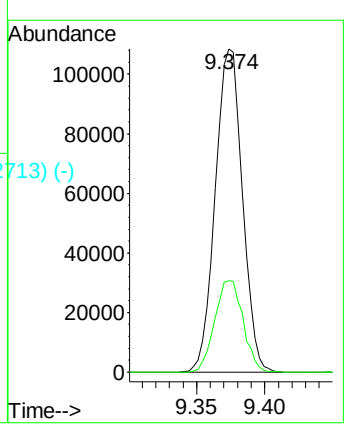




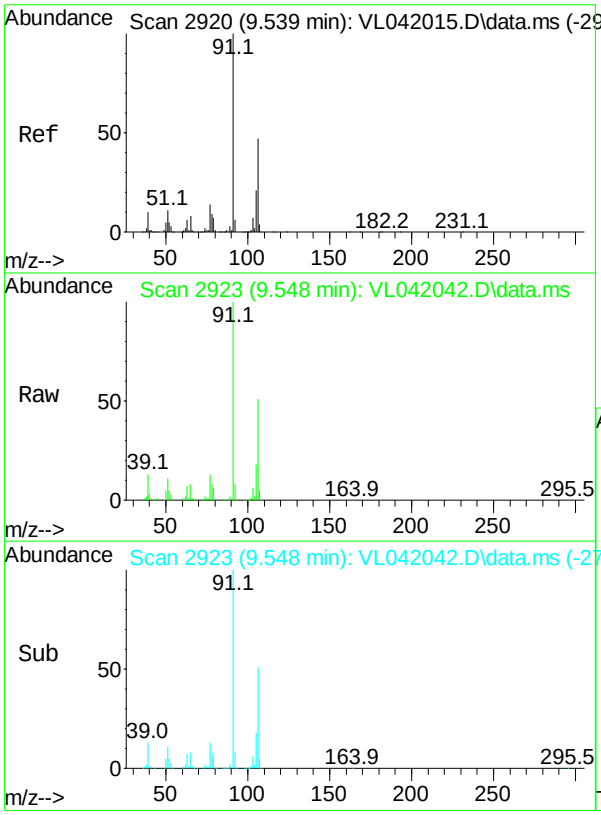
#58
Ethyl Benzene
Concen: 1.804 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 149185

Ion	Ratio	Lower	Upper
91	100		
106	28.3	23.1	34.7



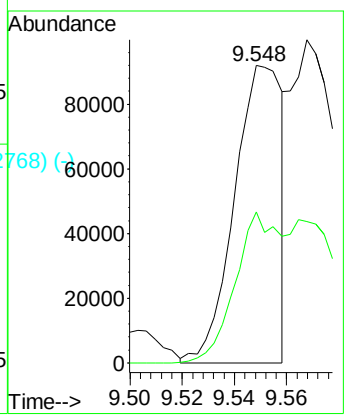
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



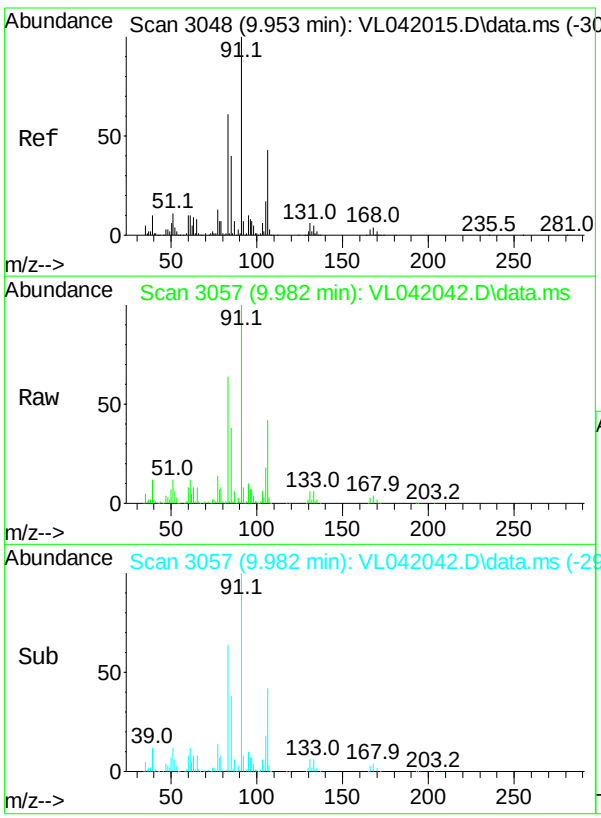
#59
m/p-Xylene
Concen: 1.773 ppbv
RT: 9.548 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 115500

Ion	Ratio	Lower	Upper
91	100		
106	97.3	35.8	53.8#



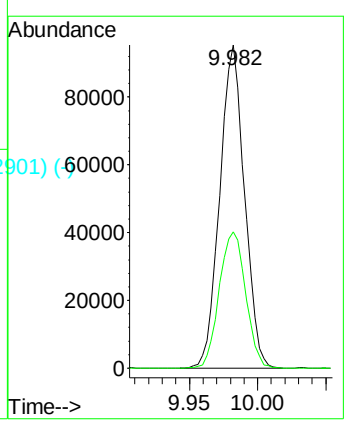
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

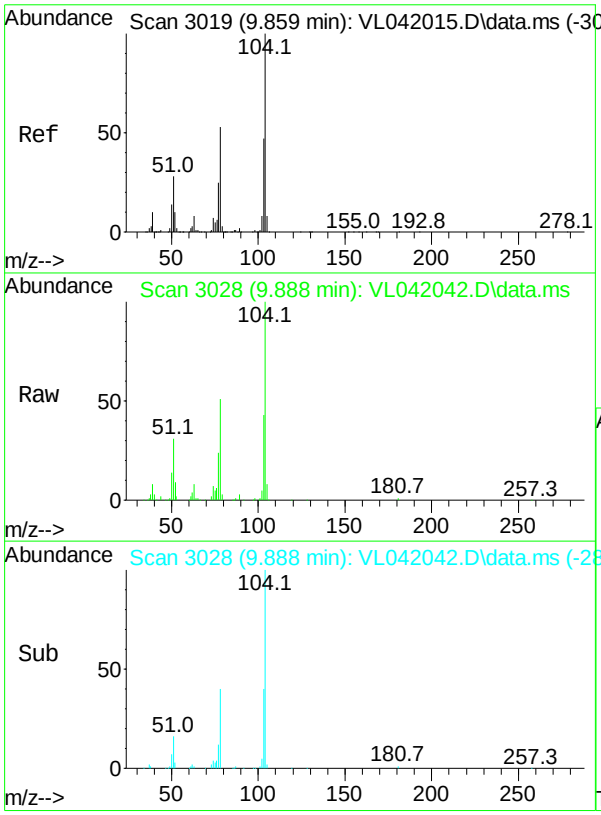


#60
o-Xylene
Concen: 1.809 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 119170

Ion	Ratio	Lower	Upper
91	100		
106	45.0	21.4	64.3

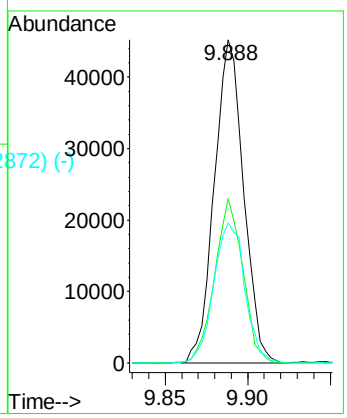


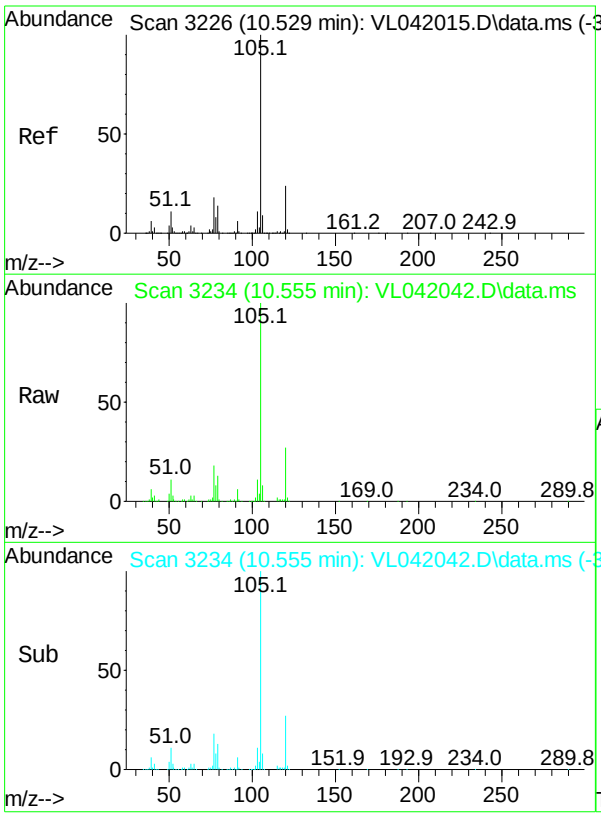


#61
Styrene
Concen: 1.776 ppbv
RT: 9.888 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:104 Resp: 55798

Ion	Ratio	Lower	Upper
104	100		
78	49.1	42.2	63.4
103	46.2	38.1	57.1

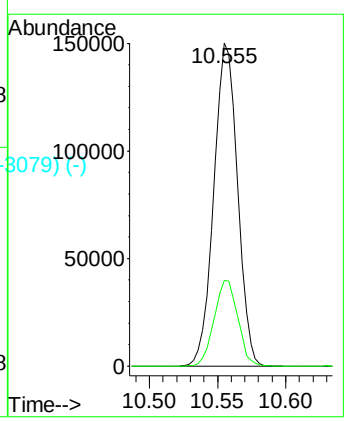




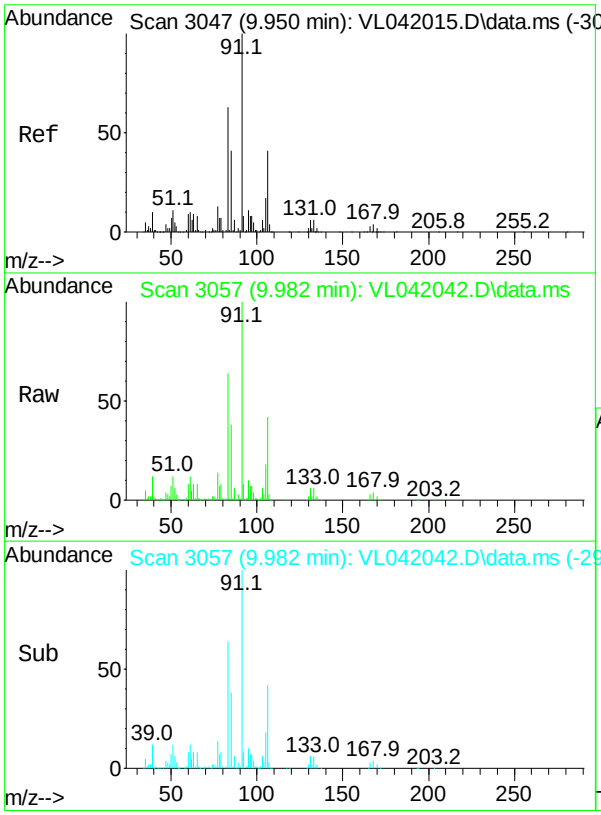
#62
Isopropylbenzene
Concen: 1.833 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:105 Resp: 181311

Ion	Ratio	Lower	Upper
105	100		
120	26.5	19.8	29.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

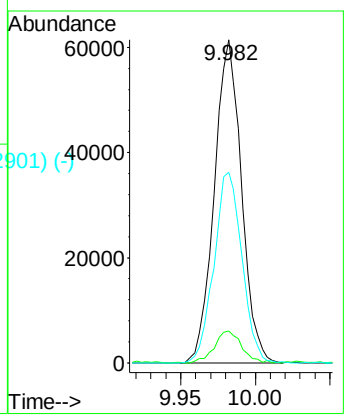


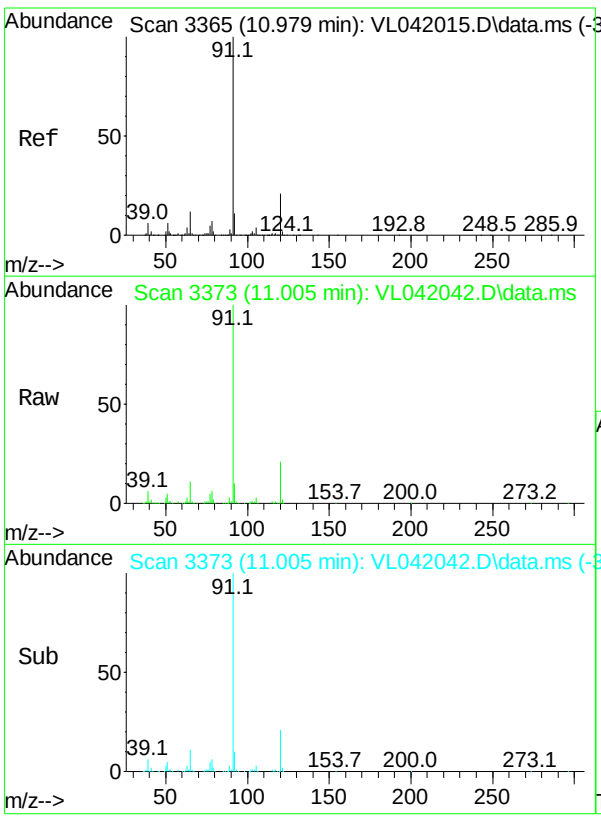
#63
1,1,2,2-Tetrachloroethan
Concen: 1.833 ppbv
RT: 9.982 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 77911

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	15.0
85	60.6	32.1	96.3

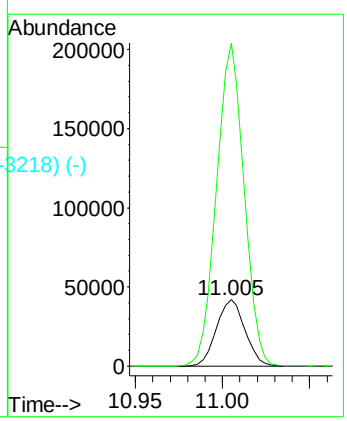


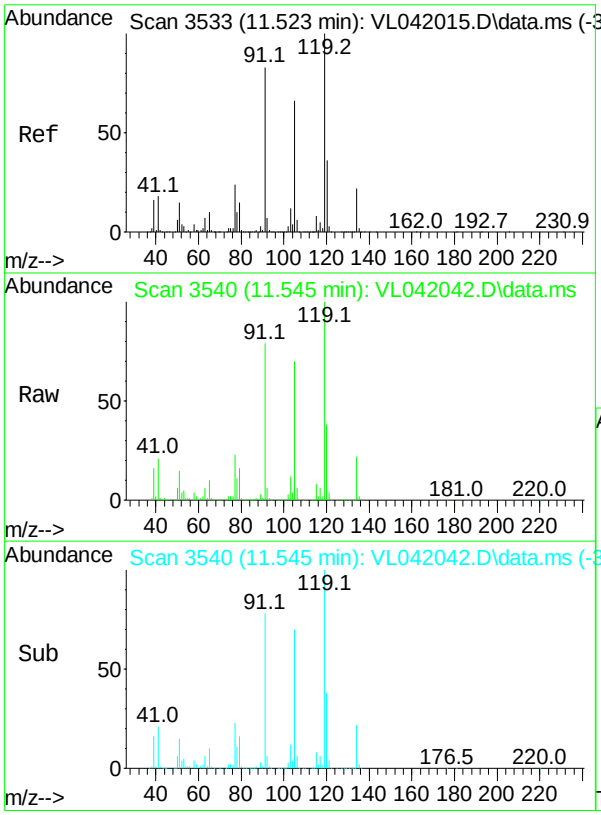


#64
n-propylbenzene
Concen: 1.965 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:120 Resp: 47764

Ion	Ratio	Lower	Upper
120	100		
91	469.7	392.2	588.2

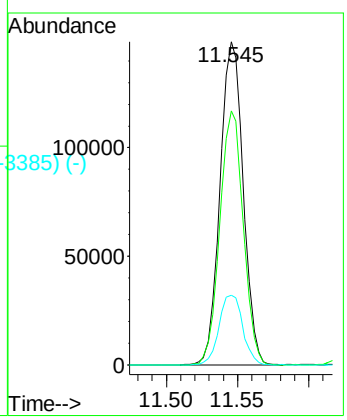




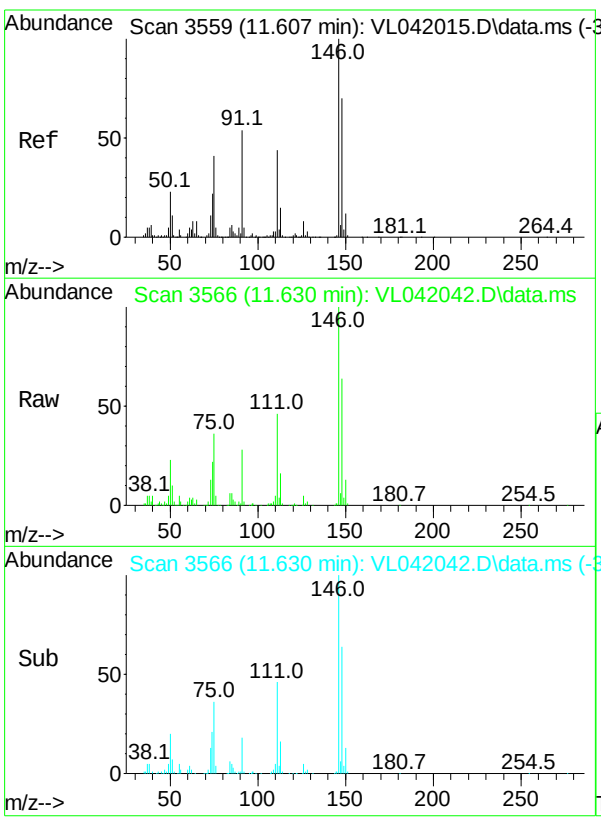
#85
tert-Butylbenzene
Concen: 1.948 ppbv
RT: 11.545 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:119 Resp: 167973

Ion	Ratio	Lower	Upper
119	100		
91	79.5	66.5	99.7
134	22.1	16.6	24.8



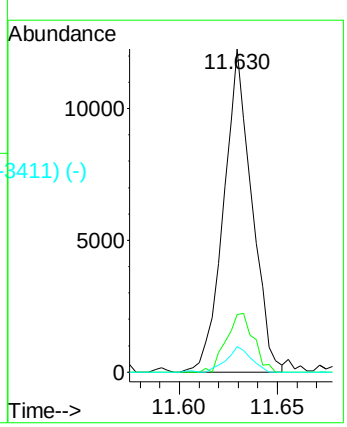
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

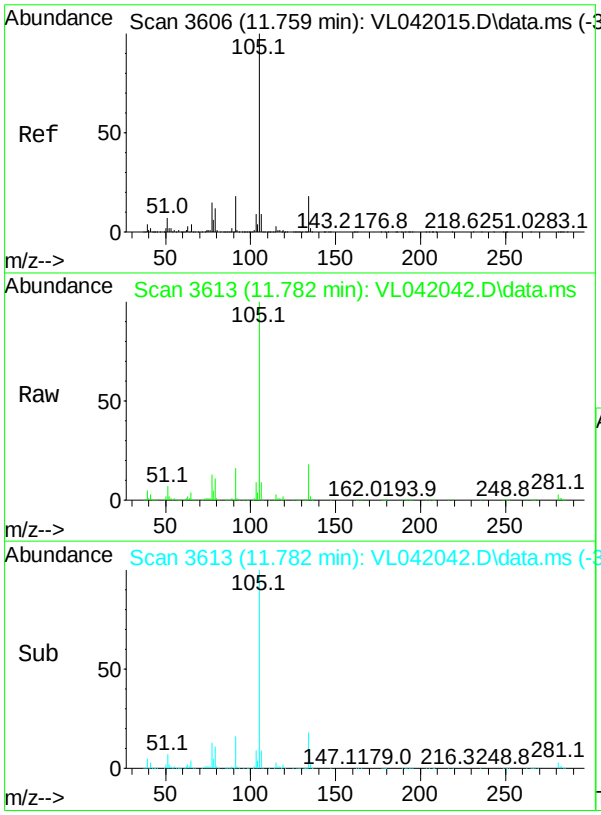


#86
Benzyl Chloride
Concen: 1.423 ppbv
RT: 11.630 min Scan# 3566
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 12304

Ion	Ratio	Lower	Upper
91	100		
126	17.7	13.8	20.6
128	7.0	4.1	6.1#

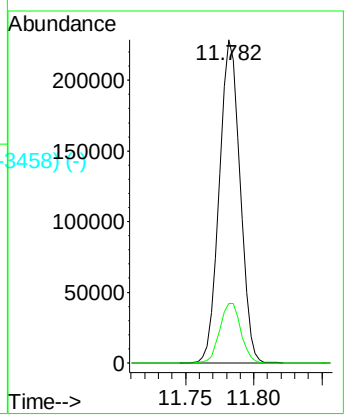




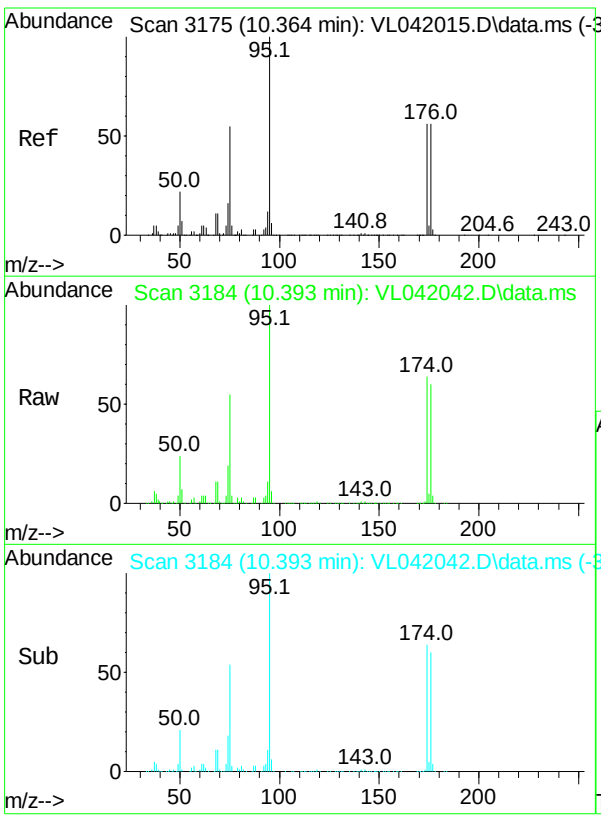
#67 (-)
sec-Butylbenzene
Concen: 1.986 ppbv
RT: 11.782 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:105 Resp: 240504

Ion	Ratio	Lower	Upper
105	100		
134	18.7	14.7	22.1



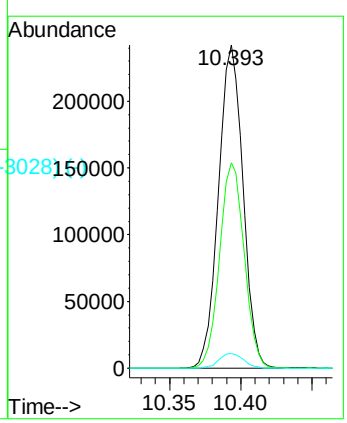
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

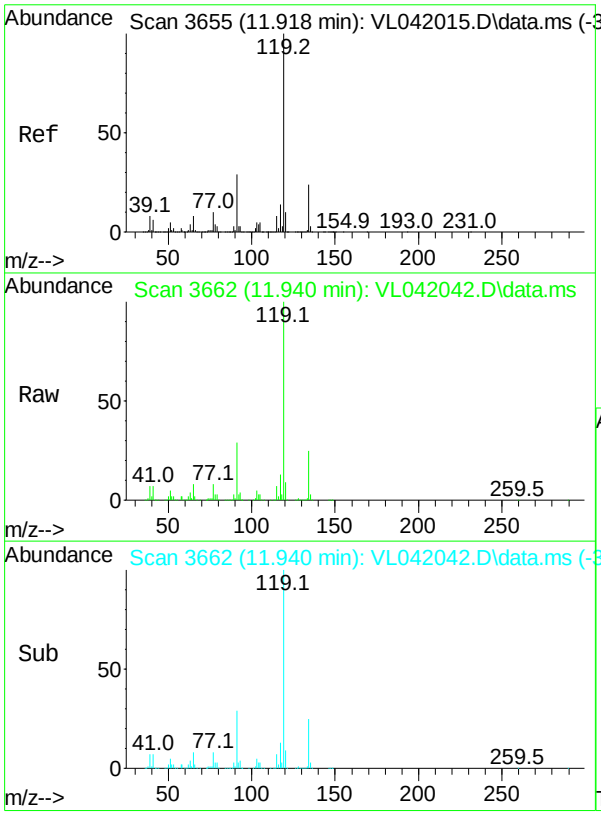


#68 (-)
1-Bromo-4-Fluorobenzene
Concen: 9.273 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 95 Resp: 289049

Ion	Ratio	Lower	Upper
95	100		
174	63.8	46.7	70.1
175	4.5	3.7	5.5

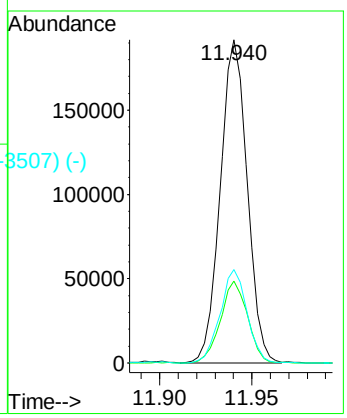




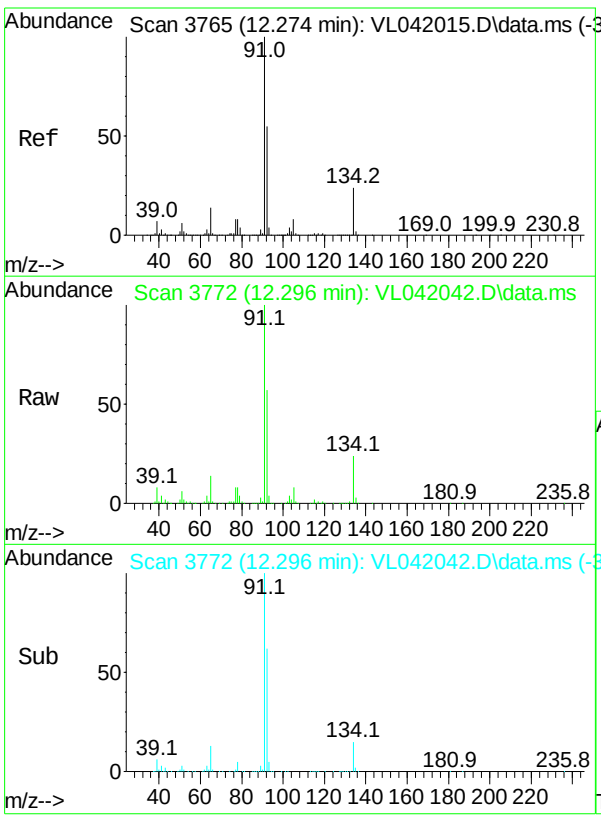
#69
p-Isopropyltoluene
Concen: 1.963 ppbv
RT: 11.940 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:119 Resp: 194660

Ion	Ratio	Lower	Upper
119	100		
134	25.6	19.4	29.0
91	29.2	23.4	35.2



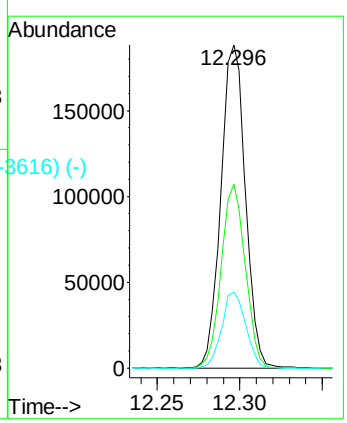
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

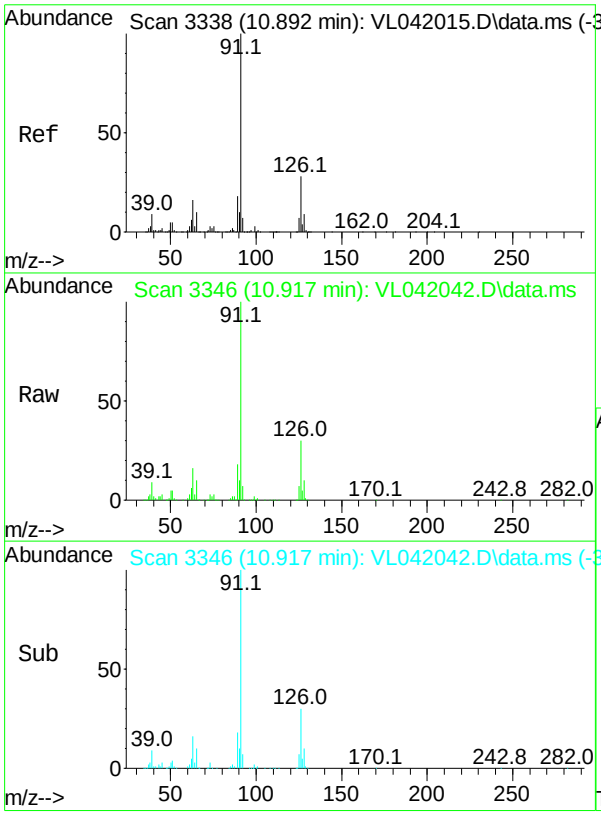


#70
n-Butylbenzene
Concen: 1.991 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 194416

Ion	Ratio	Lower	Upper
91	100		
92	56.0	43.8	65.8
134	23.2	18.6	27.8

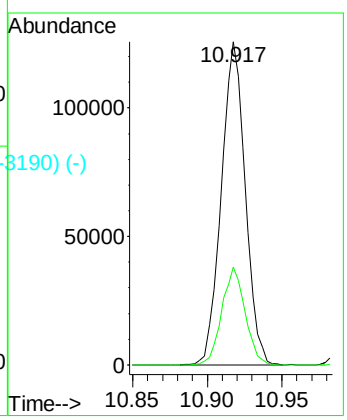




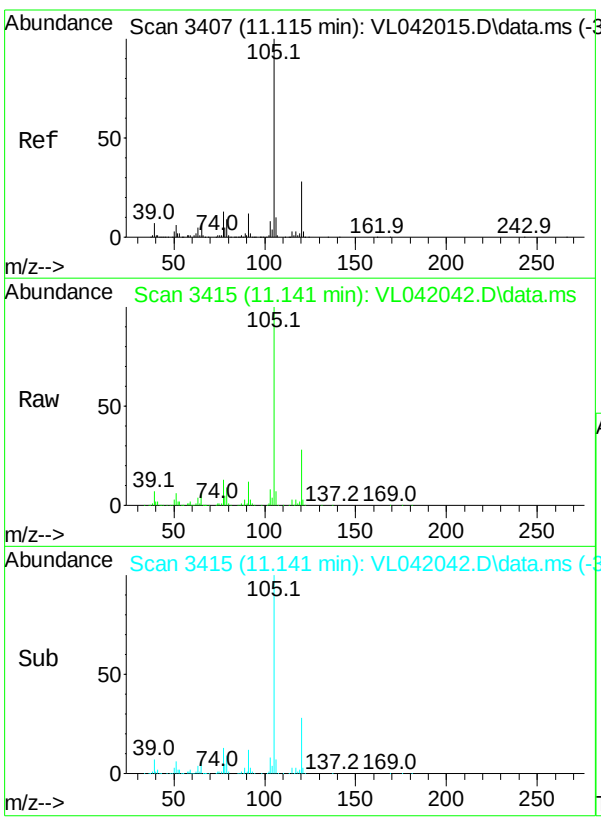
#71
2-Chlorotoluene
Concen: 1.880 ppbv
RT: 10.917 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion: 91 Resp: 140068

Ion	Ratio	Lower	Upper
91	100		
126	29.4	11.2	45.0



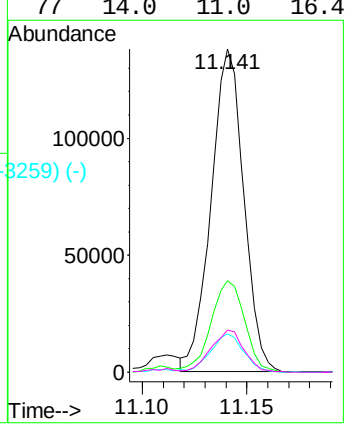
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

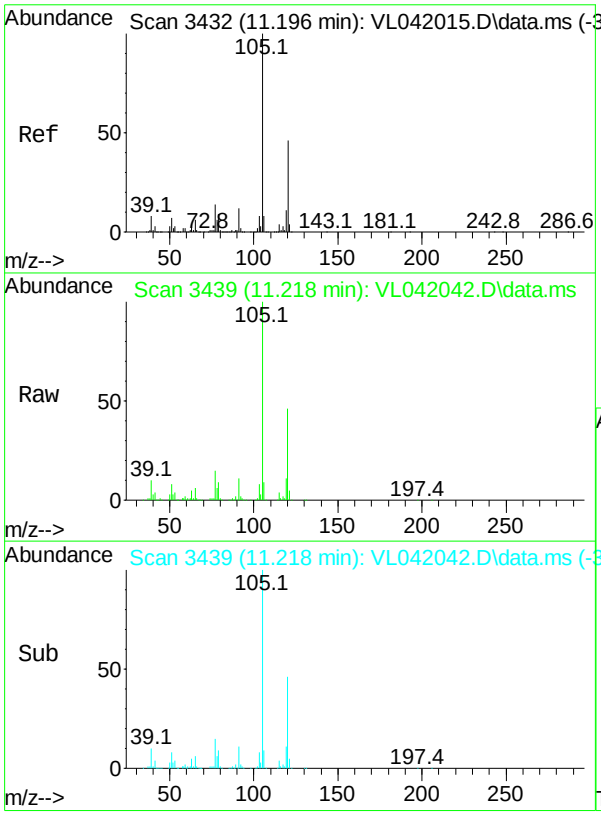


#72
4-Ethyltoluene
Concen: 1.944 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:105 Resp: 150038

Ion	Ratio	Lower	Upper
105	100		
120	30.6	22.7	34.1
91	12.9	10.2	15.2
77	14.0	11.0	16.4



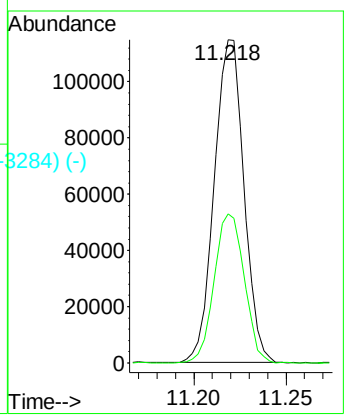


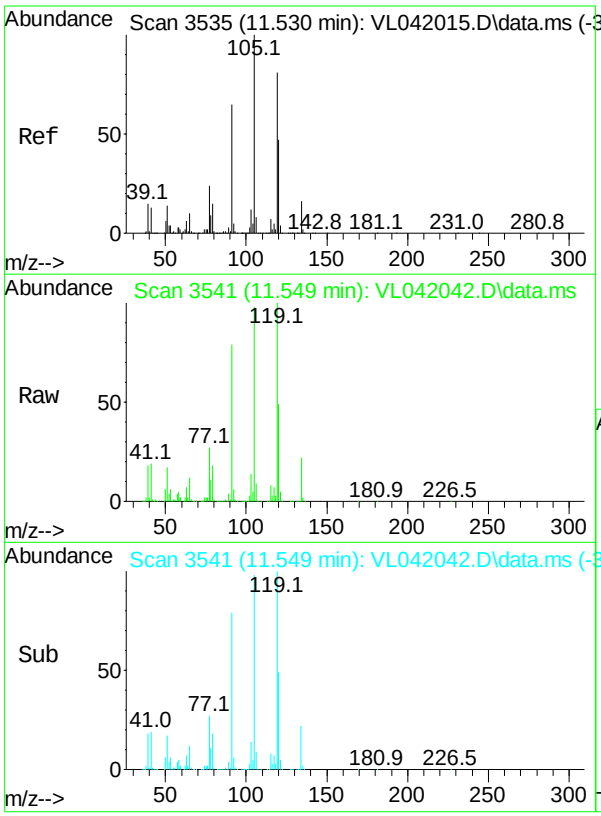
#73
1,3,5-Trimethylbenzene
Concen: 1.925 ppbv
RT: 11.218 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 128202

Ion	Ratio	Lower	Upper
105	100		
120	46.0	37.1	55.7

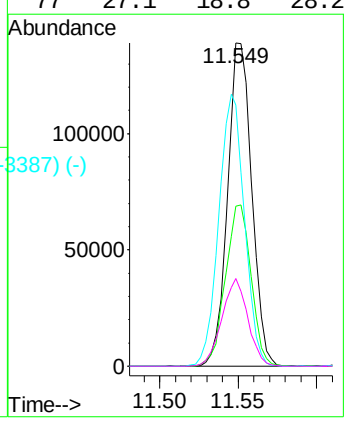


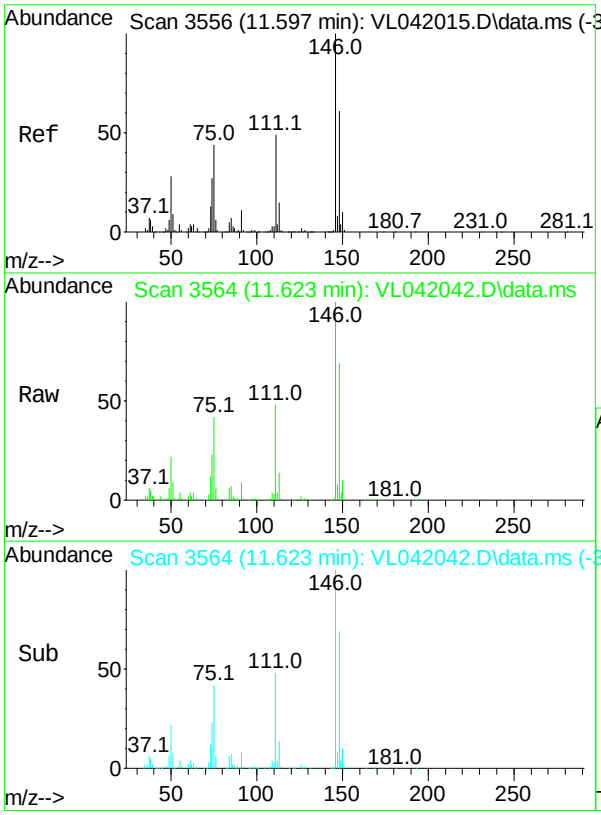


#74
1,2,4-Trimethylbenzene
Concen: 2.104 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:105 Resp: 150380

Ion	Ratio	Lower	Upper
105	100		
120	49.5	37.5	56.3
91	80.7	51.7	77.5#
77	27.1	18.8	28.2



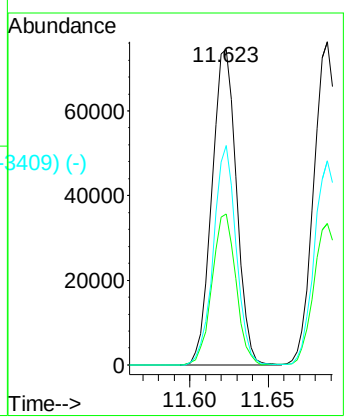


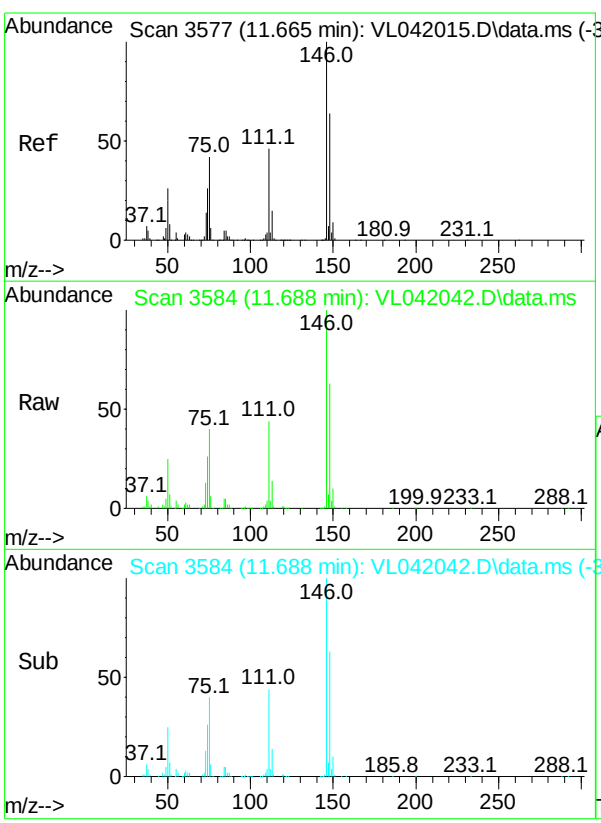
#75
1,3-Dichlorobenzene
Concen: 2.129 ppbv
RT: 11.623 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 81884

Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.9	71.7
148	64.4	31.5	94.5

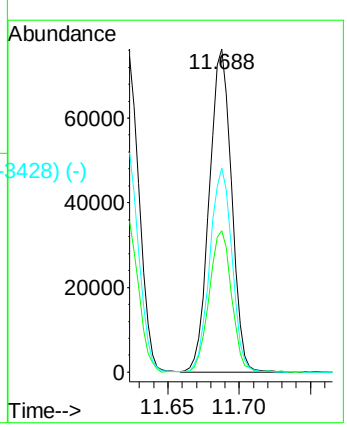




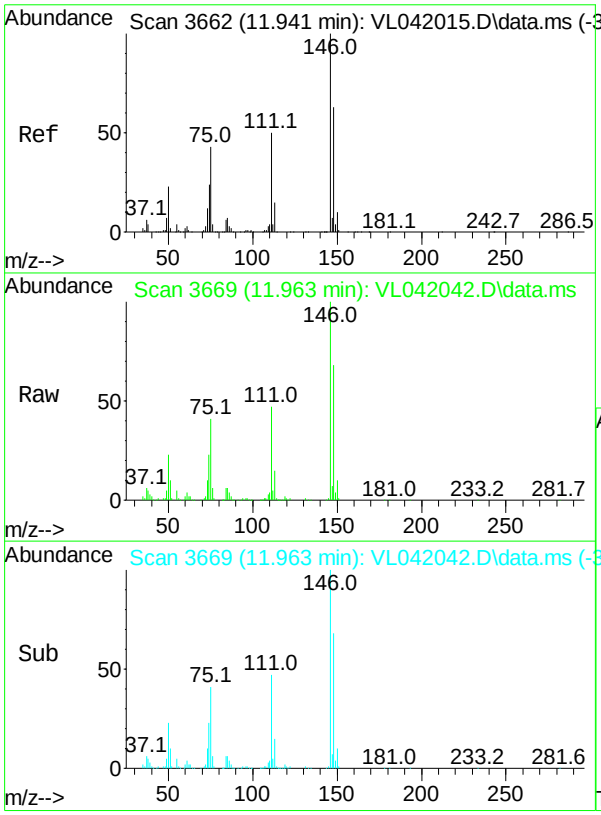
#76
1,4-Dichlorobenzene
Concen: 2.201 ppbv
RT: 11.688 min Scan# 3584
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:146 Resp: 82560

Ion	Ratio	Lower	Upper
146	100		
111	44.2	23.5	70.5
148	63.0	32.3	96.9



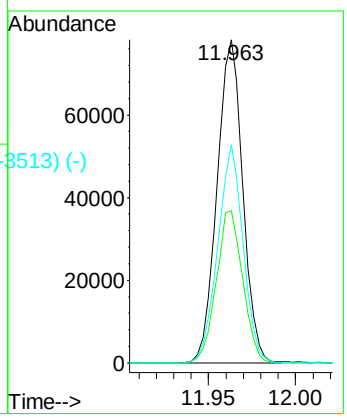
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

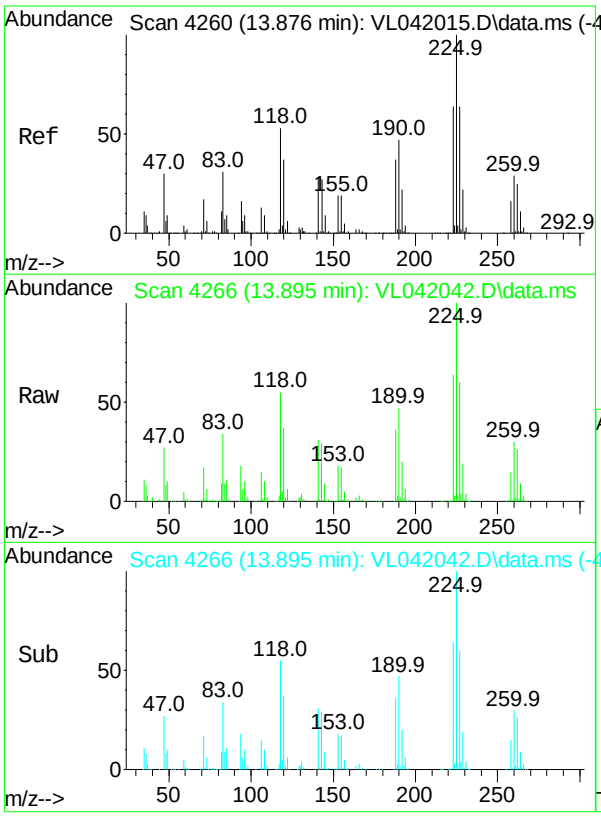


#527 (-)
1,2-Dichlorobenzene
Concen: 2.186 ppbv
RT: 11.963 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:146 Resp: 80367

Ion	Ratio	Lower	Upper
146	100		
111	48.3	25.6	76.8
148	66.6	31.9	95.7

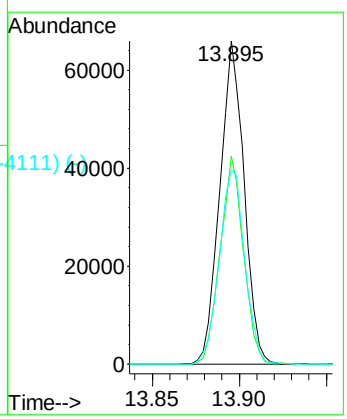


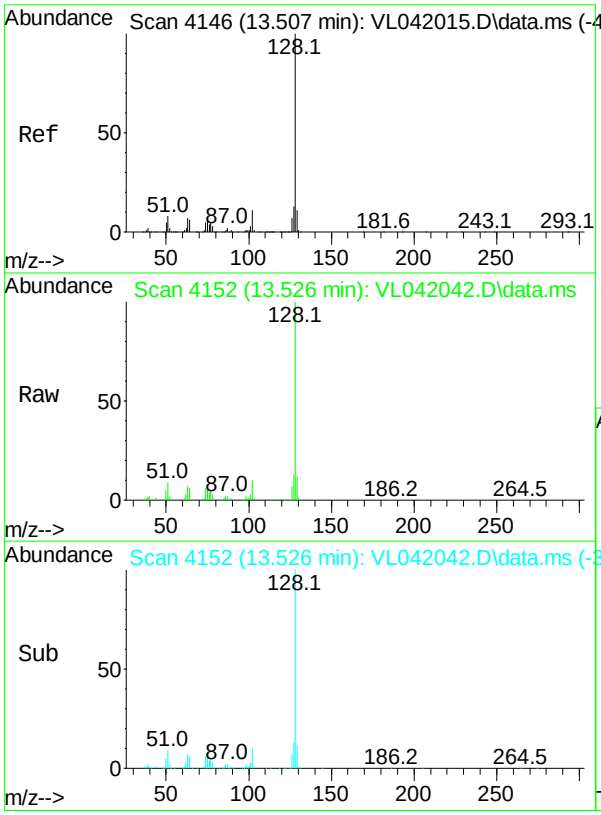


#528 (-)
Hexachloro-1,3-Butadiene
Concen: 2.098 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:225 Resp: 63815

Ion	Ratio	Lower	Upper
225	100		
223	62.1	50.6	75.8
227	63.3	50.9	76.3

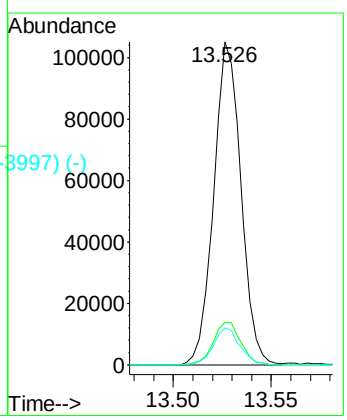


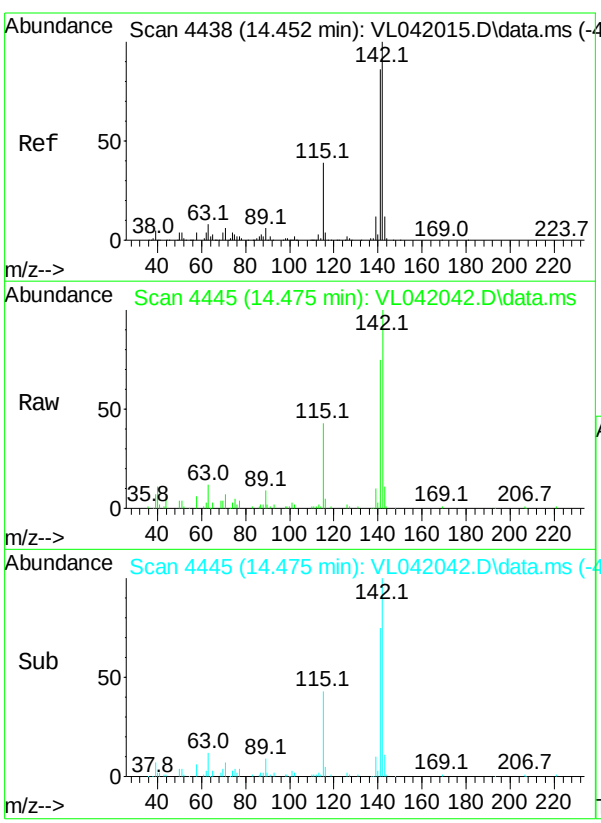


#79
Naphthalene
Concen: 1.454 ppbv
RT: 13.526 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:128 Resp: 102197

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.2
129	11.6	8.6	13.0

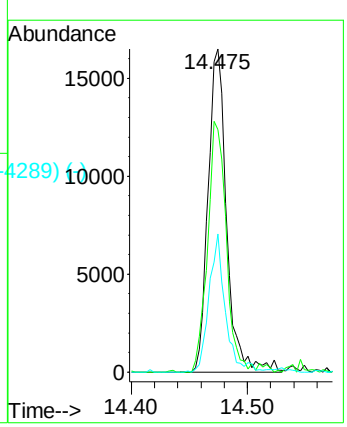




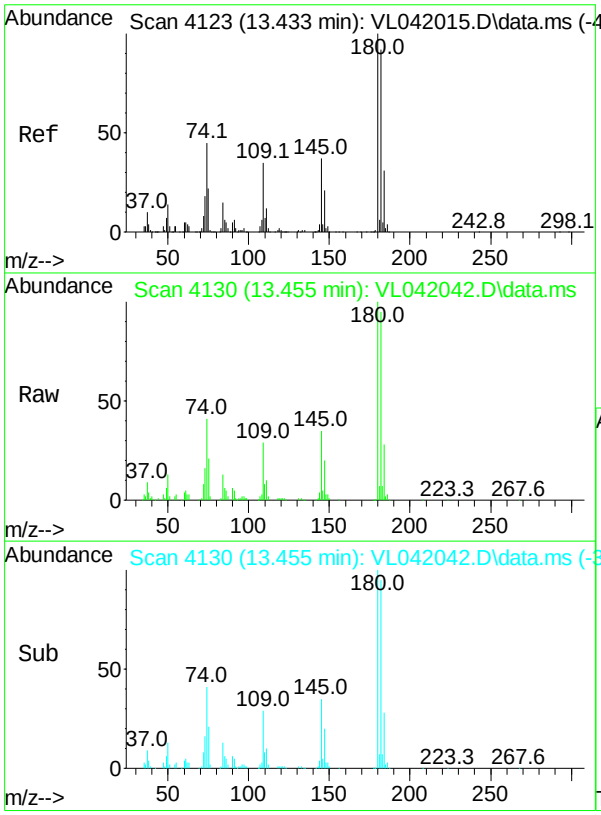
#80
Naphthalene,2-methyl-
Concen: 0.569 ppbv
RT: 14.475 min Scan# 4445
Delta R.T. 0.003 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:142 Resp: 18104

Ion	Ratio	Lower	Upper
142	100		
141	79.7	68.2	102.2
115	38.7	33.6	50.4



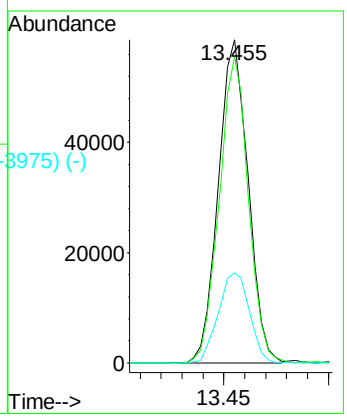
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



#81
1,2,4-Trichlorobenzene
Concen: 2.023 ppbv
RT: 13.455 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042042.D
Acq: 25 Feb 2025 09:29

Tgt Ion:180 Resp: 57798

Ion	Ratio	Lower	Upper
180	100		
182	93.1	75.8	113.6
184	29.2	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VSTDICC001

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	161096	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	423363	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	369917	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	287450	9.420	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	17457	0.629	ppbv	95
3) Chlorodifluoromethane	1.479	51	25229	0.823	ppbv	98
4) Chloromethane	1.538	50	6417	0.595	ppbv #	75
5) Vinyl Chloride	1.586	62	5567	0.432	ppbv	96
6) Bromomethane	1.674	94	2966	0.594	ppbv	100
7) Chloroethane	1.709	64	2542	0.605	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	14655	0.601	ppbv	90
9) Propene	1.486	41	10156	0.768	ppbv	96
10) Heptane	4.998	43	19784	0.539	ppbv #	59
11) Trichlorofluoromethane	1.884	101	18079	0.648	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	14527	0.667	ppbv	92
13) Ethanol	1.725	45	1108	0.743	ppbv	91
14) Bromoethene	1.787	108	4905	0.604	ppbv #	95
15) Acetone	1.845	43	15468	0.582	ppbv	98
16) 1,3-Butadiene	1.615	39	7010	0.556	ppbv	99
17) tert-Butyl alcohol	2.052	59	19092	0.580	ppbv	97
18) 1,1-Dichloroethene	2.043	96	7042	0.677	ppbv	94
19) Isopropyl Alcohol	1.894	45	9191	0.616	ppbv #	32
20) Methylene Chloride	2.068	84	6026	0.602	ppbv	95
21) Allyl Chloride	2.104	41	11550	0.600	ppbv	95
22) trans-1,2-Dichloroethene	2.043	96	7042	0.624	ppbv	87
23) Vinyl Acetate	2.473	43	9893	0.687	ppbv #	91
24) 1,1-Dichloroethane	2.418	63	13783	0.601	ppbv	98
25) Ethyl Acetate	2.852	43	59183	0.811	ppbv	99
26) Hexane	2.836	57	23549	0.804	ppbv	96
27) Carbon Disulfide	2.159	76	15659	0.568	ppbv #	46
28) Methyl tert-Butyl Ether	2.454	73	13593	0.759	ppbv	95
29) Chloroform	2.861	83	32925	0.776	ppbv	94
30) Cyclohexane	3.874	84	19953	0.840	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	22565	0.780	ppbv	97
32) 1,1,1-Trichloroethane	3.386	97	30870	0.656	ppbv	96
34) 2-Butanone	2.570	43	33820	0.929	ppbv	99
35) Carbon Tetrachloride	3.777	117	30618	0.745	ppbv	90
36) Benzene	3.674	78	45892	0.895	ppbv	96
37) 1,2-Dichloroethane	3.234	62	25585	0.876	ppbv	99
38) Trichloroethene	4.570	130	18921	0.908	ppbv	91
39) 1,2-Dichloropropane	4.334	63	17557	0.934	ppbv	94
40) 1,4-Dioxane	4.619	88	3890	0.398	ppbv #	1
41) Tetrahydrofuran	3.075	42	20823	1.000	ppbv	96
42) Bromodichloromethane	4.515	83	33481	0.847	ppbv	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VSTDICC001

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Methyl Methacrylate	4.907	69	17679	0.756	ppbv		99
44) 2,2,4-Trimethylpentane	4.661	57	81921	0.941	ppbv		98
45) t-1,3-Dichloropropene	6.444	75	8303	0.376	ppbv	#	83
46) cis-1,3-Dichloropropene	5.632	75	5320	0.190	ppbv	#	1
47) 1,1,2-Trichloroethane	6.606	97	9420	0.476	ppbv		93
48) Dibromochloromethane	7.412	129	28239	0.852	ppbv		97
49) Bromoform	9.500	173	23310	0.858	ppbv		94
50) 4-Methyl-2-Pentanone	5.791	43	16703	0.298	ppbv	#	38
51) 2-Hexanone	7.470	43	24117	0.527	ppbv	#	97
52) Tetrachloroethene	8.241	164	16217	0.907	ppbv		89
53) Toluene	6.959	91	51231	0.838	ppbv		99
54) 1,2-Dibromoethane	7.674	107	23427	0.860	ppbv		94
56) 1,1,1,2-Tetrachloroethane	8.943	131	22060	0.833	ppbv		97
57) Chlorobenzene	8.937	112	41173	0.946	ppbv		96
58) Ethyl Benzene	9.370	91	70507	0.871	ppbv		97
59) m/p-Xylene	9.548	91	61567	0.965	ppbv	#	100
60) o-Xylene	9.979	91	57322	0.889	ppbv		99
61) Styrene	9.885	104	26596	0.865	ppbv		98
62) Isopropylbenzene	10.555	105	86533	0.894	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.979	83	38520	0.926	ppbv		98
64) n-propylbenzene	11.002	120	22456	0.944	ppbv		94
65) tert-Butylbenzene	11.545	119	83284	0.987	ppbv		99
66) Benzyl Chloride	11.626	91	3586	0.424	ppbv	#	65
67) sec-Butylbenzene	11.782	105	119435	1.007	ppbv		99
69) p-Isopropyltoluene	11.940	119	93710	0.966	ppbv		99
70) n-Butylbenzene	12.293	91	94969	0.993	ppbv		98
71) 2-Chlorotoluene	10.914	91	67655	0.928	ppbv		98
72) 4-Ethyltoluene	11.137	105	71906	0.952	ppbv		99
73) 1,3,5-Trimethylbenzene	11.215	105	64087	0.983	ppbv		96
74) 1,2,4-Trimethylbenzene	11.549	105	73323	1.048	ppbv		100
75) 1,3-Dichlorobenzene	11.620	146	41063	1.091	ppbv		99
76) 1,4-Dichlorobenzene	11.685	146	39235	1.068	ppbv		99
77) 1,2-Dichlorobenzene	11.960	146	40574	1.127	ppbv		98
78) Hexachloro-1,3-Butadiene	13.895	225	30764	1.033	ppbv		99
79) Naphthalene	13.526	128	45743	0.665	ppbv		98
80) Naphthalene,2-methyl-	14.471	142	5244	0.168	ppbv		94
81) 1,2,4-Trichlorobenzene	13.452	180	25404	0.908	ppbv		95

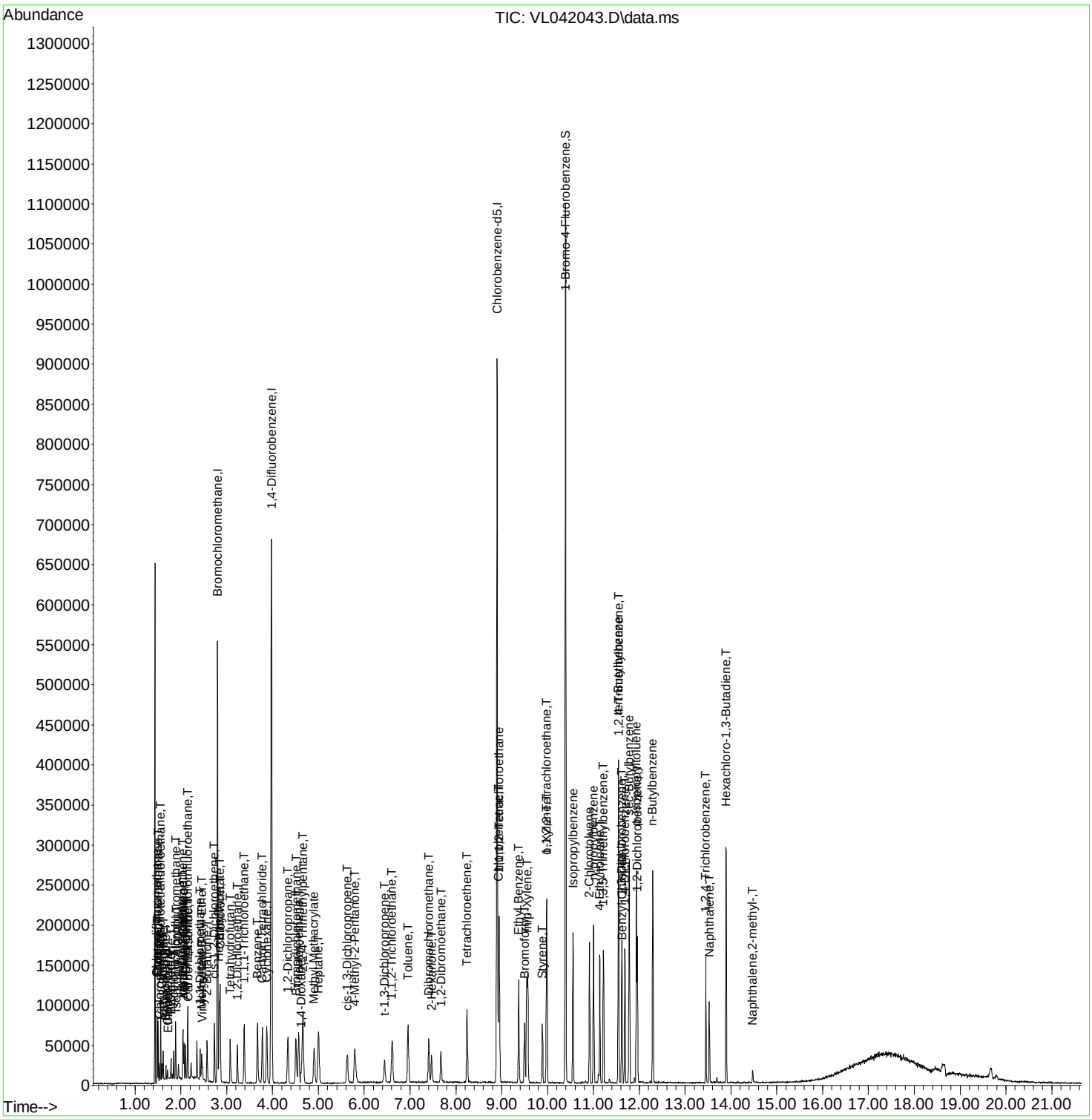
(#) = qualifier out of range (m) = manual integration (+) = signals summed

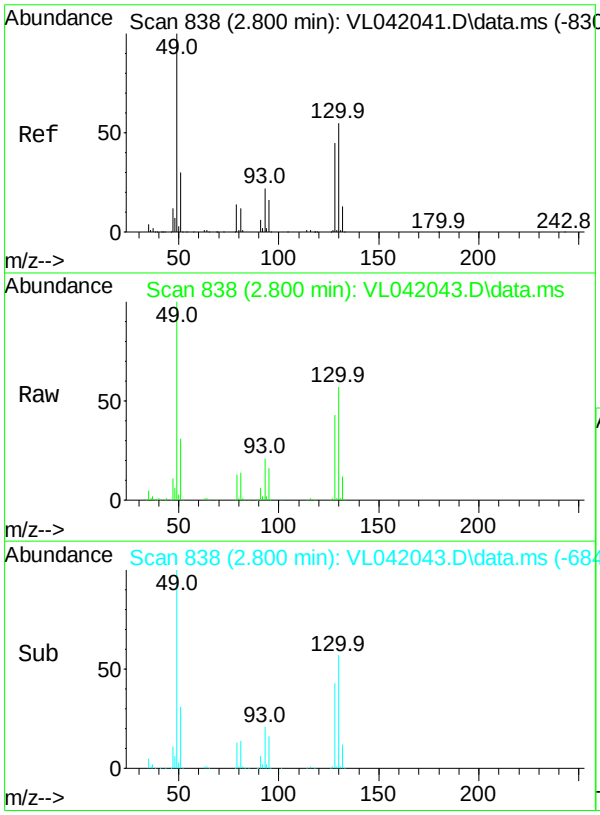
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration



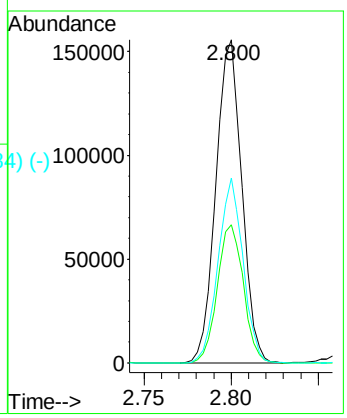


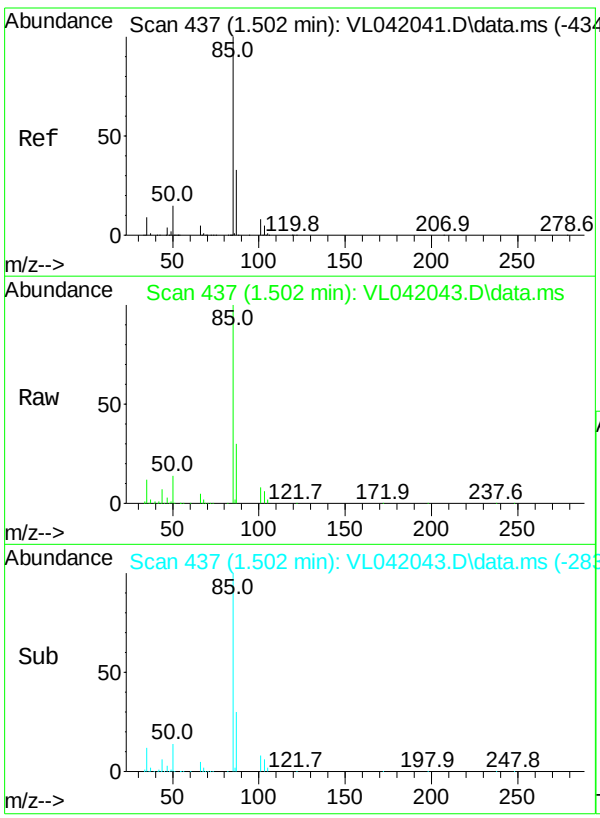
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 49 Resp: 161096

Ion	Ratio	Lower	Upper
49	100		
128	42.9	21.6	64.8
130	55.0	27.8	83.4

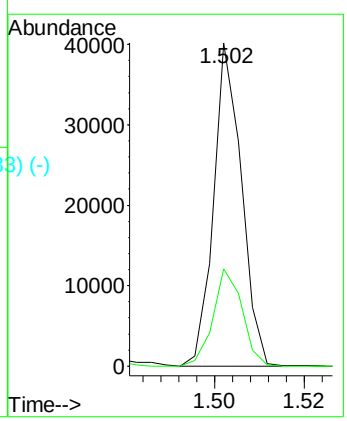


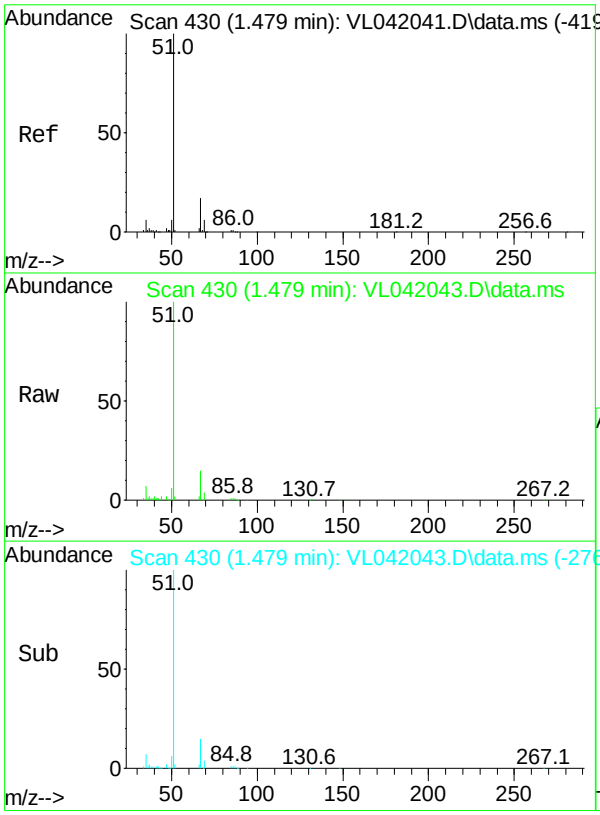


#2
Dichlorodifluoromethane
Concen: 0.629 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 85 Resp: 17457

Ion	Ratio	Lower	Upper
85	100		
87	30.1	26.4	39.6

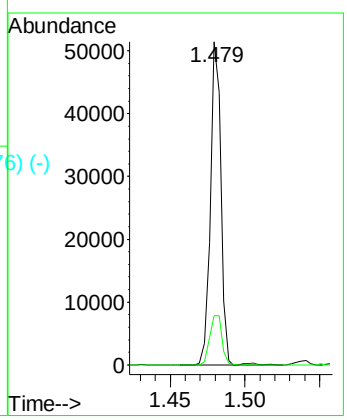




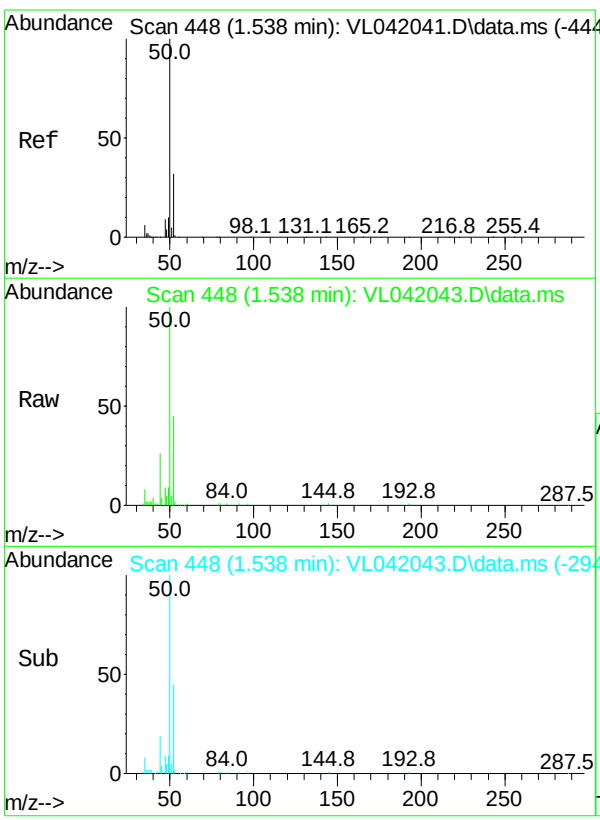
#3
Chlorodifluoromethane
Concen: 0.823 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 51 Resp: 25229

Ion	Ratio	Lower	Upper
51	100		
67	17.9	13.7	20.5



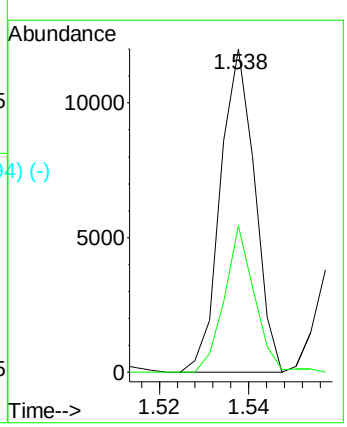
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

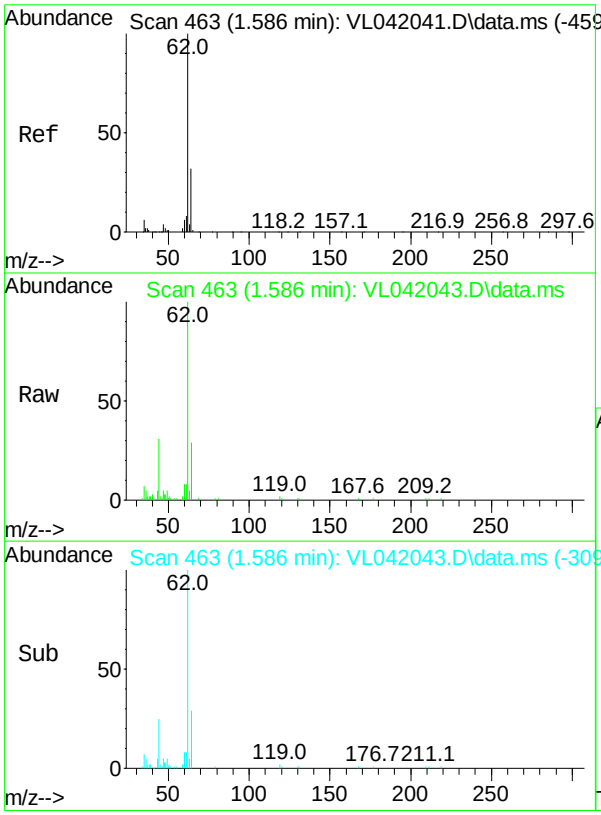


#4
Chloromethane
Concen: 0.595 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 50 Resp: 6417

Ion	Ratio	Lower	Upper
50	100		
52	45.3	25.4	38.0#

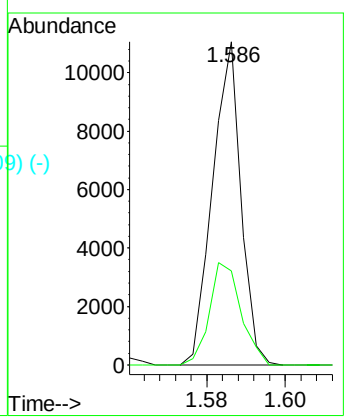


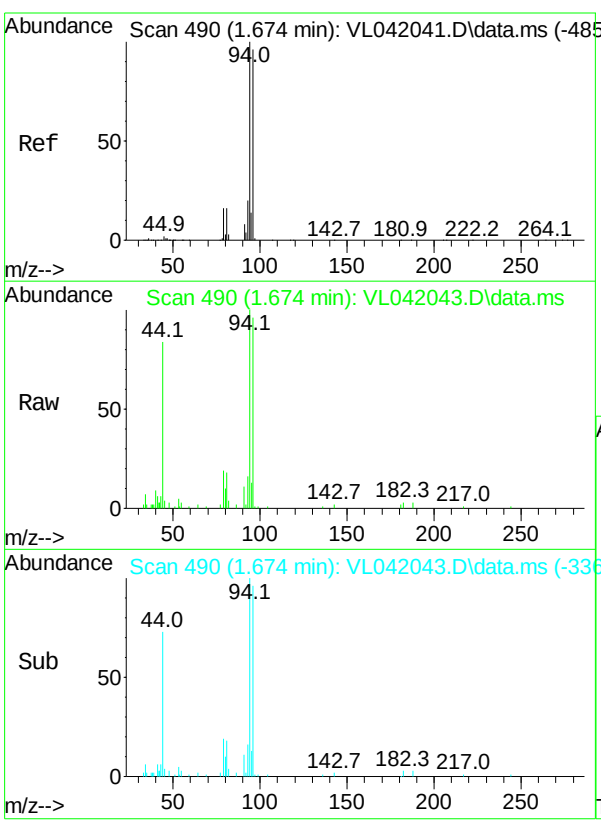


#5
Vinyl Chloride
Concen: 0.432 ppbv
RT: 1.586 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 62 Resp: 5567

Ion	Ratio	Lower	Upper
62	100		
64	29.2	25.3	37.9

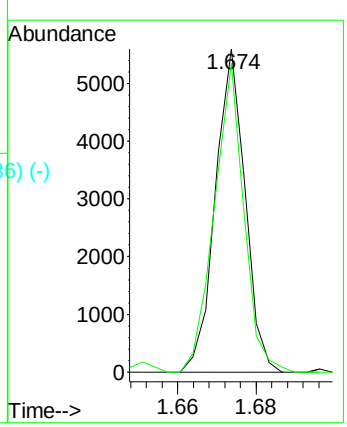


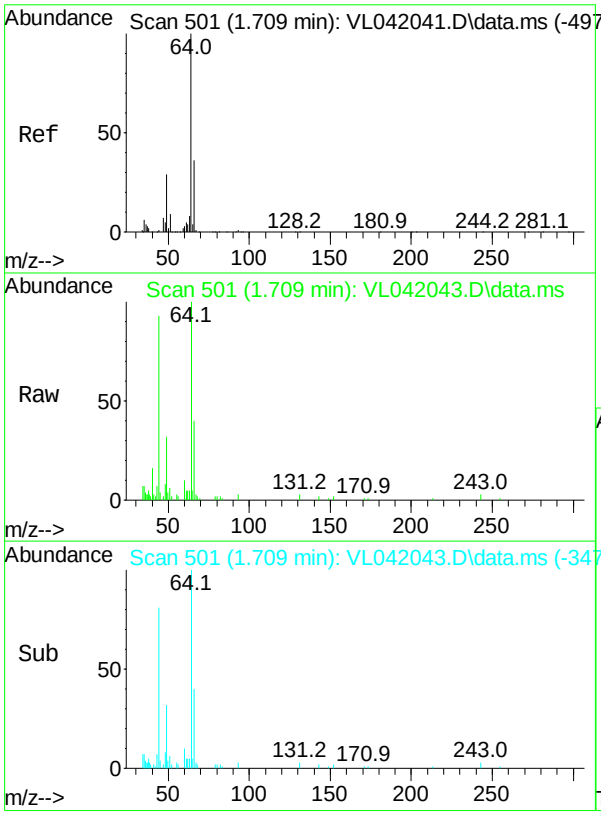


#6
Bromomethane
Concen: 0.594 ppbv
RT: 1.674 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 94 Resp: 2966

Ion	Ratio	Lower	Upper
94	100		
96	95.7	76.5	114.7

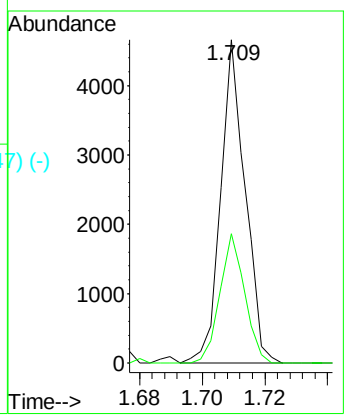


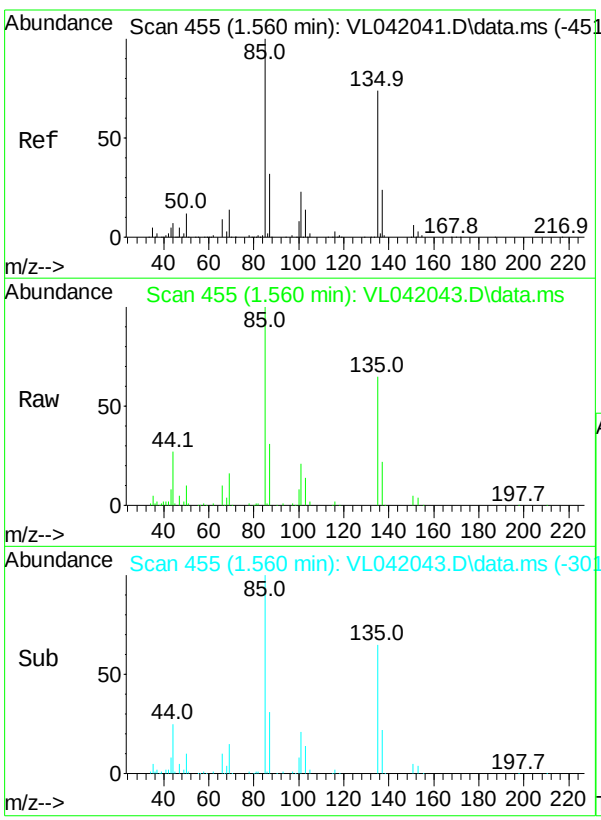


#7
Chloroethane
Concen: 0.605 ppbv
RT: 1.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 64 Resp: 2542

Ion	Ratio	Lower	Upper
64	100		
66	37.9	28.4	42.6

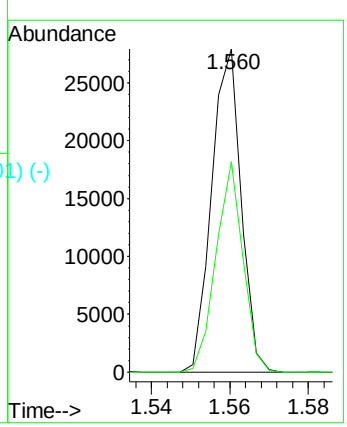




#8
Dichlorotetrafluoroethane
Concen: 0.601 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

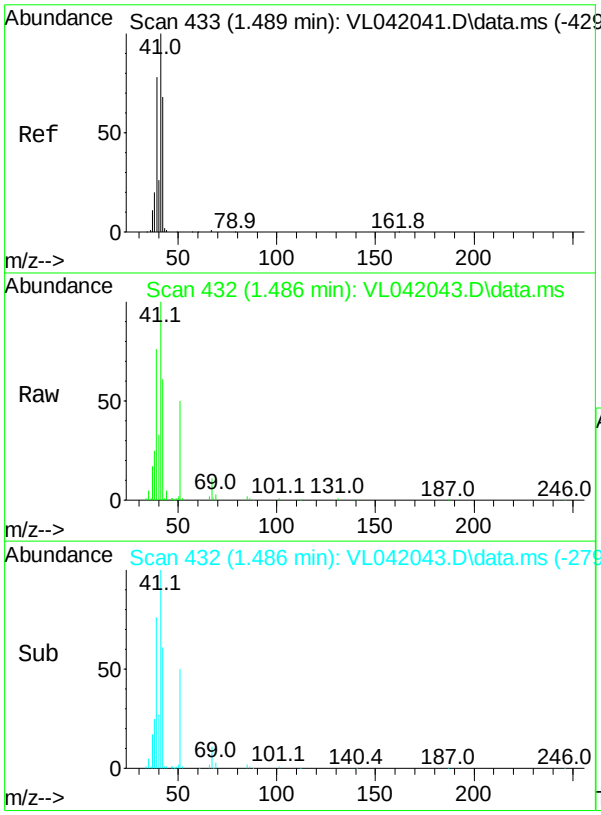
Tgt Ion: 85 Resp: 14655

Ion	Ratio	Lower	Upper
85	100		
135	59.9	54.6	81.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

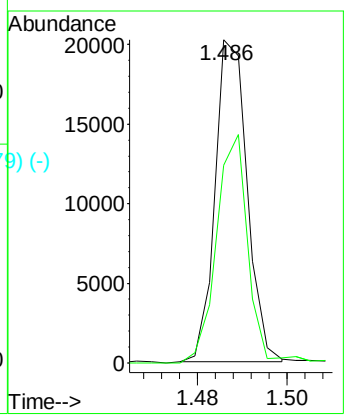
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

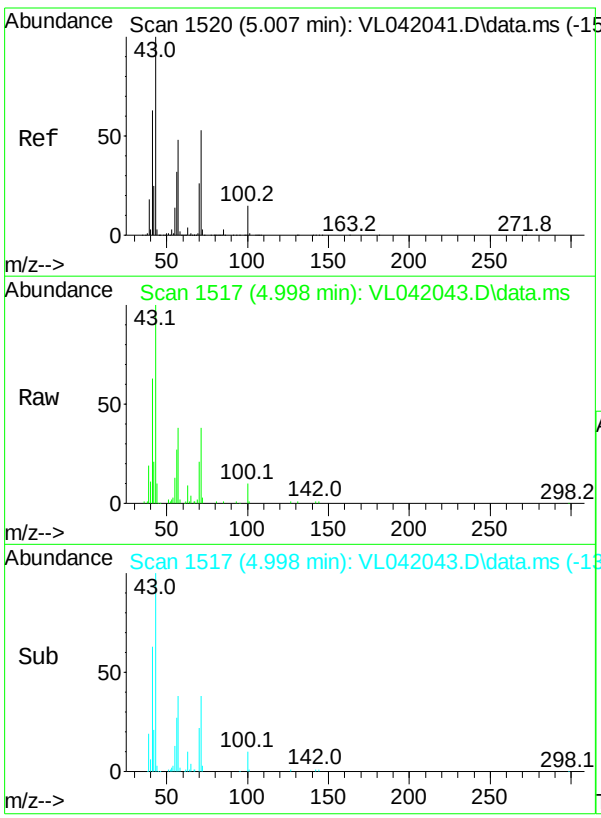


#9
Propene
Concen: 0.768 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 41 Resp: 10156

Ion	Ratio	Lower	Upper
41	100		
42	72.6	55.8	83.6

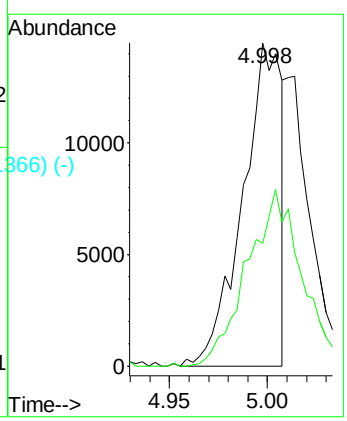


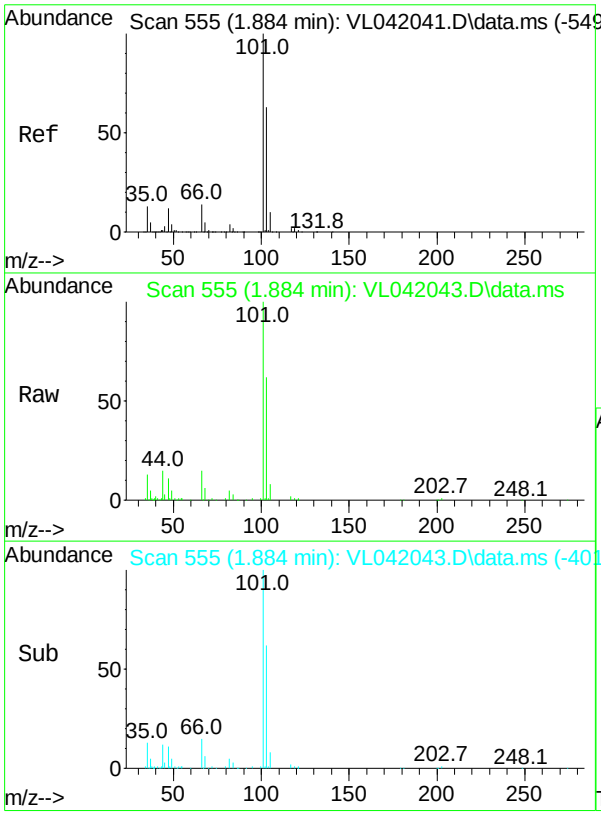


#10
Heptane
Concen: 0.539 ppbv
RT: 4.998 min Scan# 1517
Delta R.T. -0.010 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 19784

Ion	Ratio	Lower	Upper
43	100		
57	77.2	39.4	59.0#



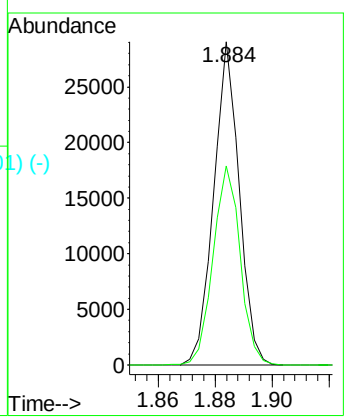


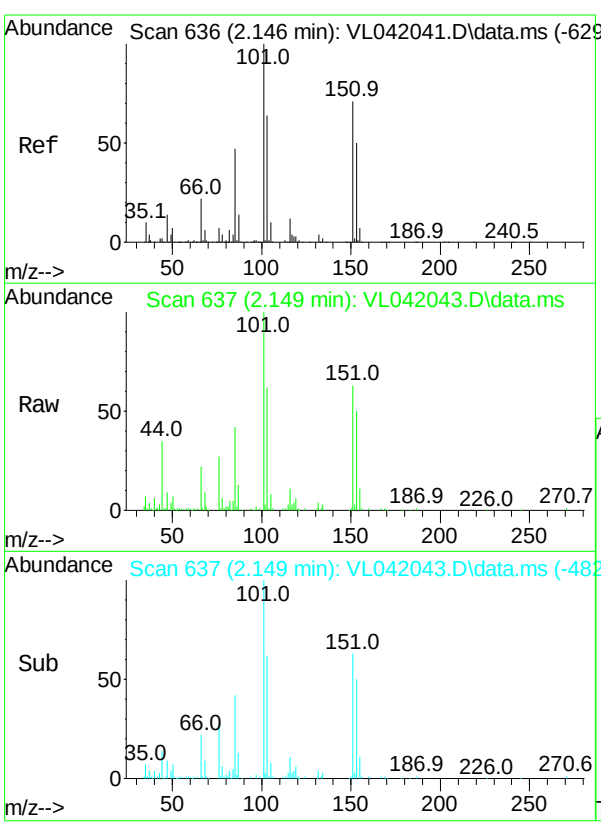
#11
Trichlorofluoromethane
Concen: 0.648 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 18079

Ion	Ratio	Lower	Upper
101	100		
103	61.5	50.6	75.8

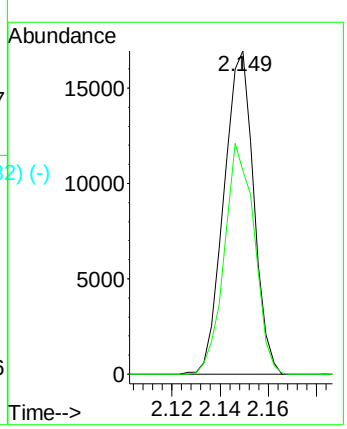


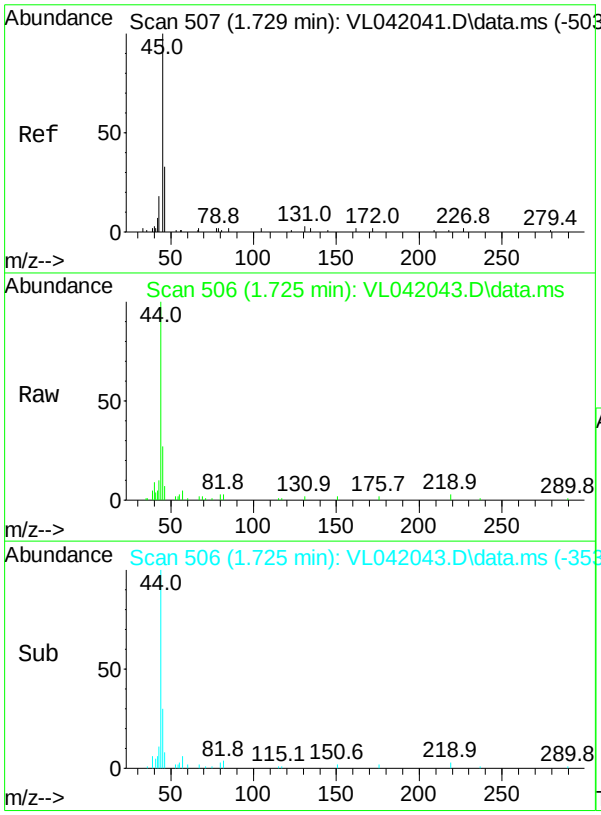


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.667 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:101 Resp: 14527

Ion	Ratio	Lower	Upper
101	100		
151	71.7	62.6	94.0

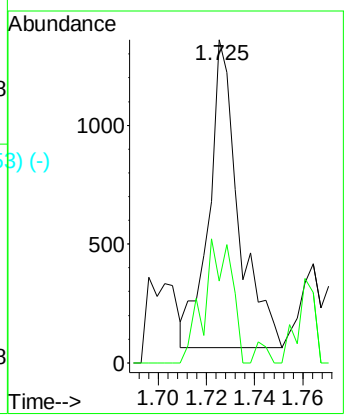


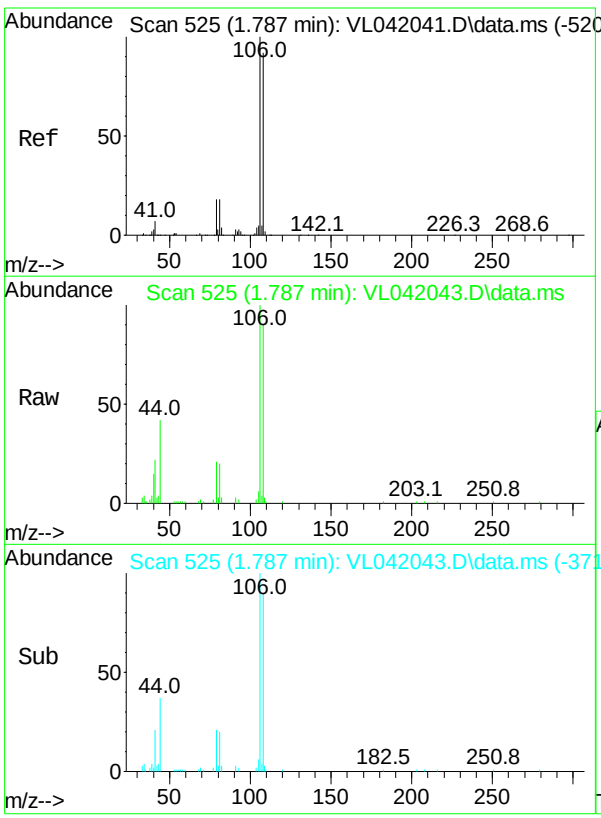


#13
Ethanol
Concen: 0.743 ppbv
RT: 1.725 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 45 Resp: 1108

Ion	Ratio	Lower	Upper
45	100		
46	37.1	17.1	68.3

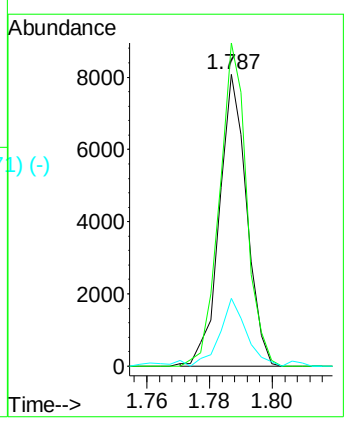




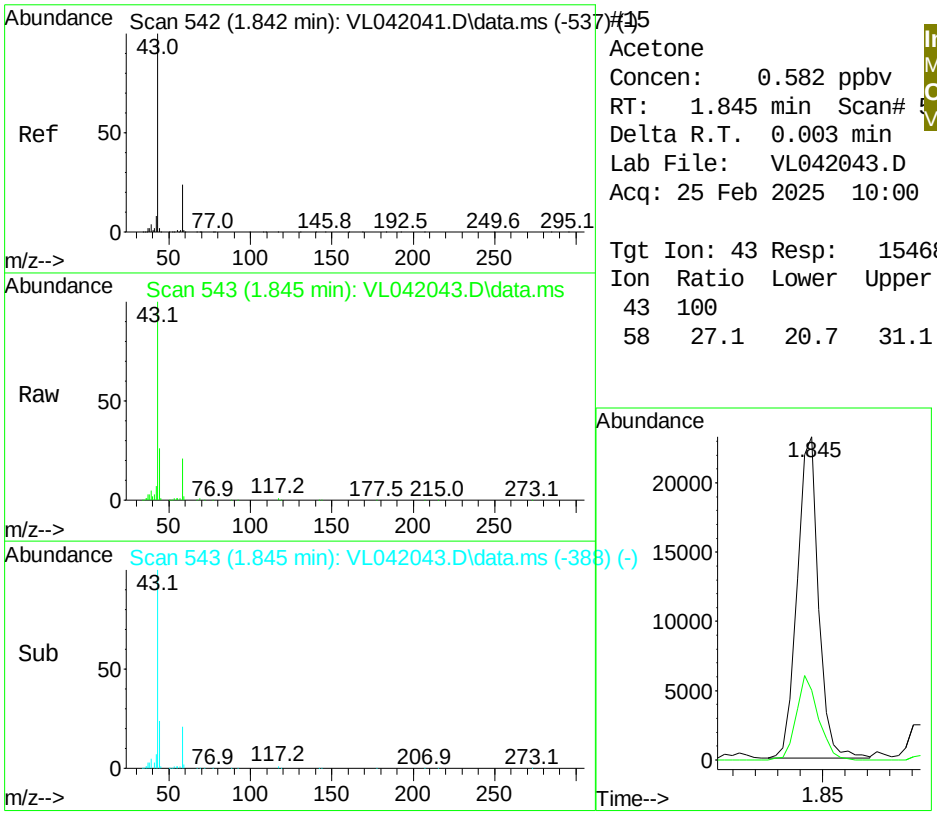
#14
Bromoethene
Concen: 0.604 ppbv
RT: 1.787 min Scan# 525
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:108 Resp: 4905

Ion	Ratio	Lower	Upper
108	100		
106	110.4	85.4	128.0
79	24.9	16.5	24.7#



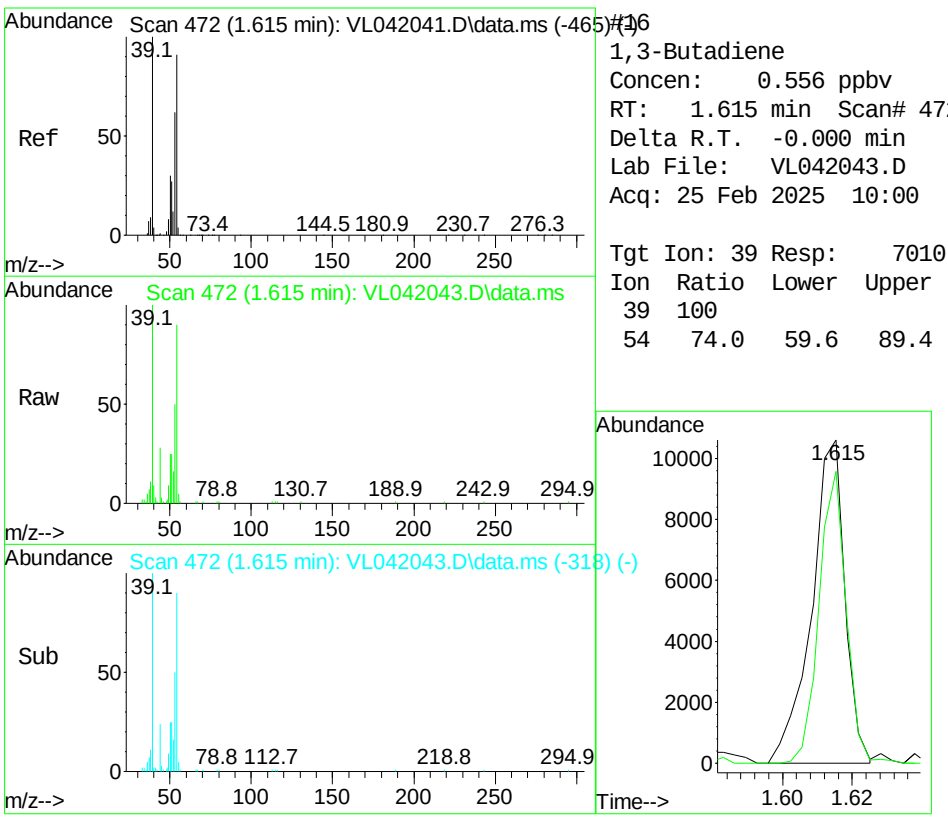
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



#15
Acetone
Concen: 0.582 ppbv
RT: 1.845 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 15468

Ion	Ratio	Lower	Upper
43	100		
58	27.1	20.7	31.1

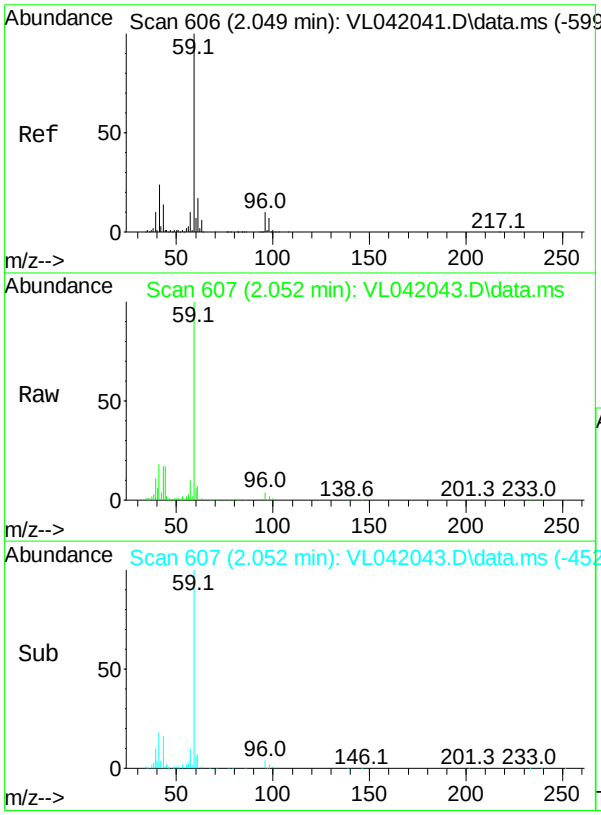


#16
1,3-Butadiene
Concen: 0.556 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 39 Resp: 7010

Ion	Ratio	Lower	Upper
39	100		
54	74.0	59.6	89.4

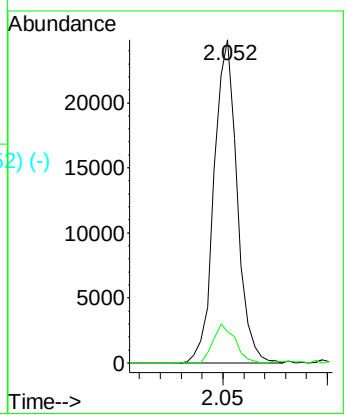
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



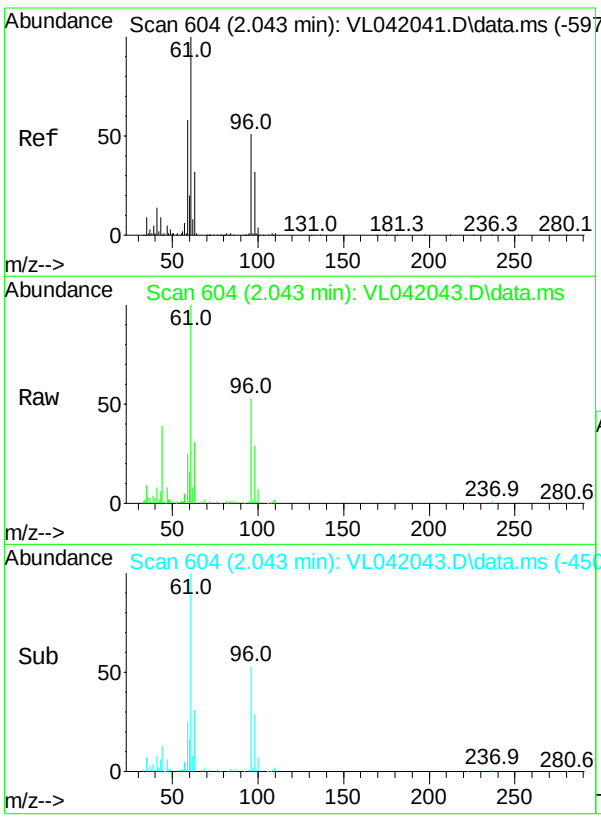
#17
tert-Butyl alcohol
Concen: 0.580 ppbv
RT: 2.052 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 59 Resp: 19092

Ion	Ratio	Lower	Upper
59	100		
57	12.6	9.3	13.9



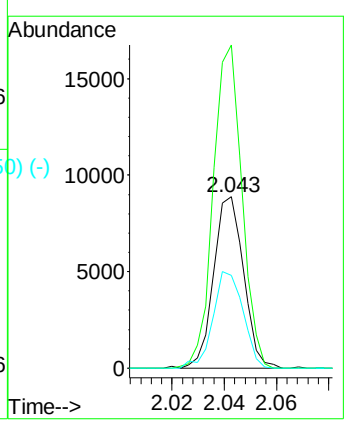
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

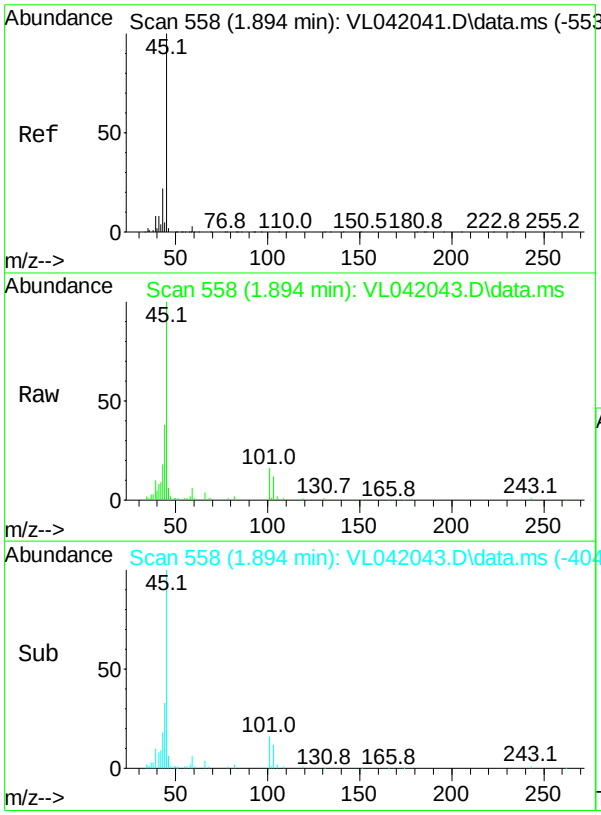


#18
1,1-Dichloroethene
Concen: 0.677 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 96 Resp: 7042

Ion	Ratio	Lower	Upper
96	100		
61	188.5	156.0	234.0
98	53.9	49.4	74.2

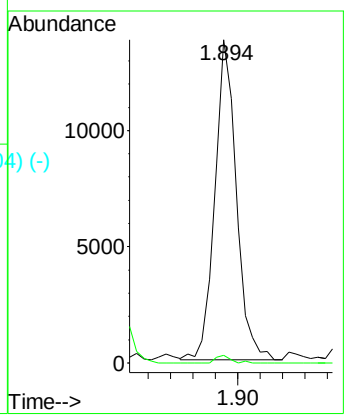


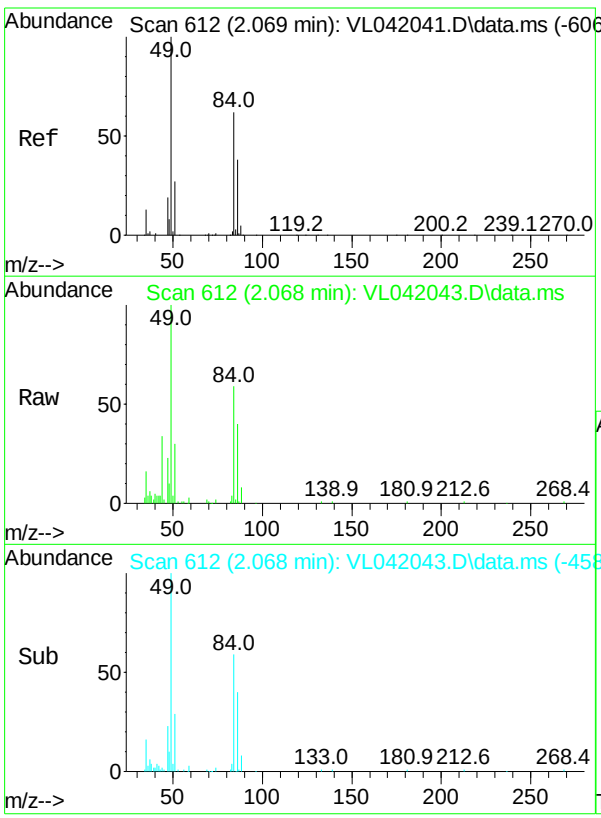


#19
Isopropyl Alcohol
Concen: 0.616 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 45 Resp: 9191

Ion	Ratio	Lower	Upper
45	100		
58	0.0	35.3	52.9#

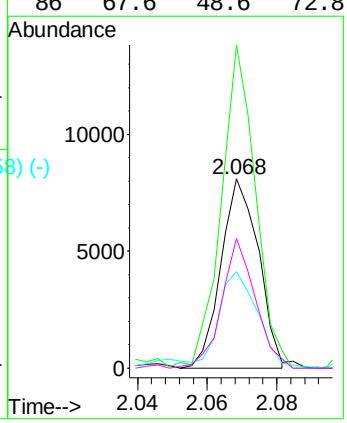




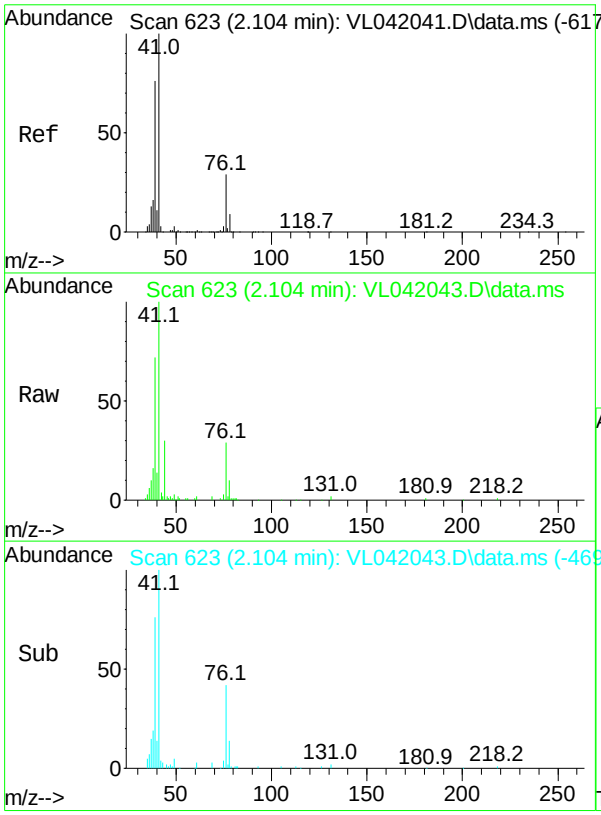
#20
Methylene Chloride
Concen: 0.602 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 84 Resp: 6026

Ion	Ratio	Lower	Upper
84	100		
49	167.5	130.0	195.0
51	48.3	37.4	56.0
86	67.6	48.6	72.8



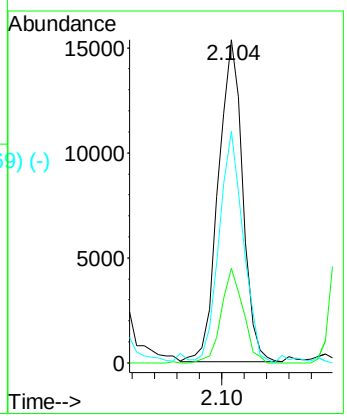
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

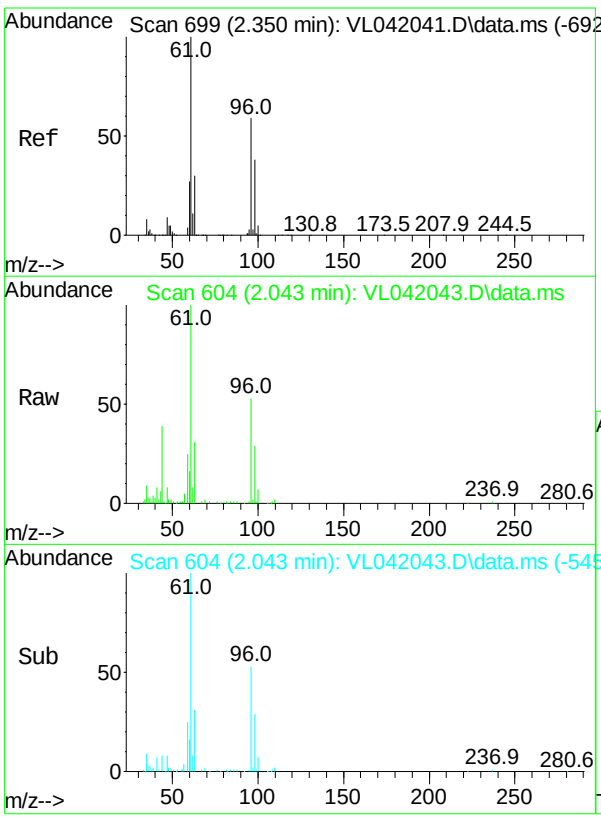


#21
Allyl Chloride
Concen: 0.600 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 41 Resp: 11550

Ion	Ratio	Lower	Upper
41	100		
76	26.6	23.8	35.6
39	75.1	63.8	95.6

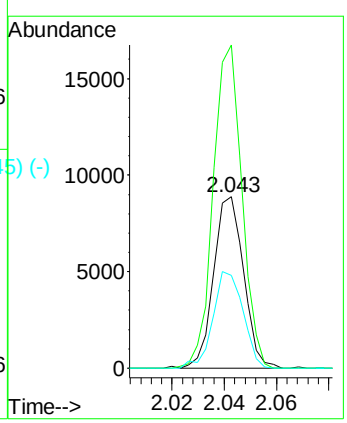




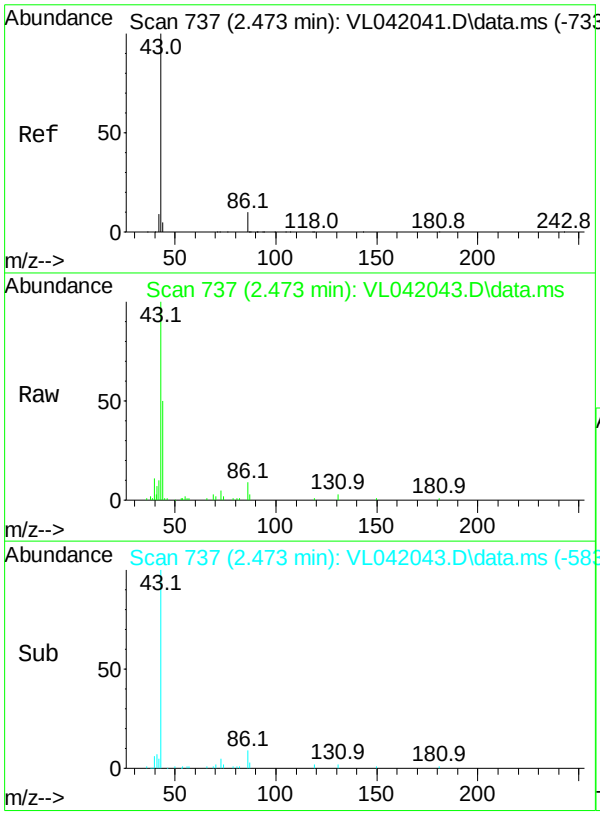
#22
trans-1,2-Dichloroethene
Concen: 0.624 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.308 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 96 Resp: 7042

Ion	Ratio	Lower	Upper
96	100		
61	188.5	136.6	205.0
98	53.9	51.8	77.6



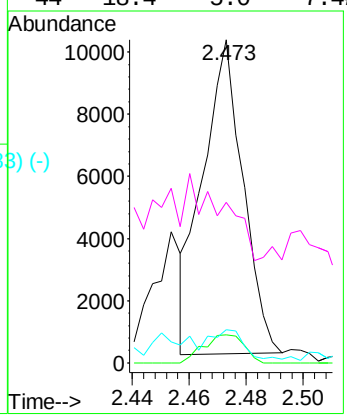
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

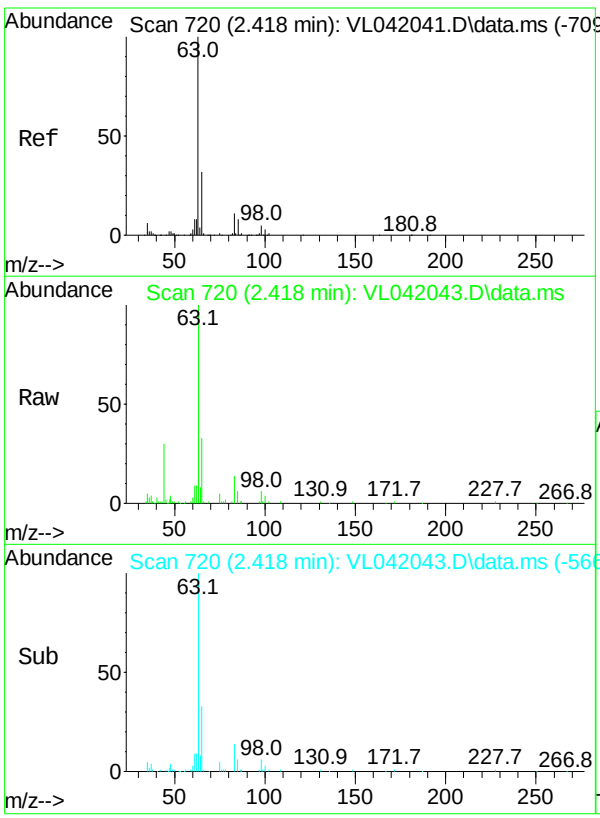


#23
Vinyl Acetate
Concen: 0.687 ppbv
RT: 2.473 min Scan#
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 9893

Ion	Ratio	Lower	Upper
43	100		
86	9.0	7.0	10.4
42	9.5	7.6	11.4
44	18.4	5.0	7.4#

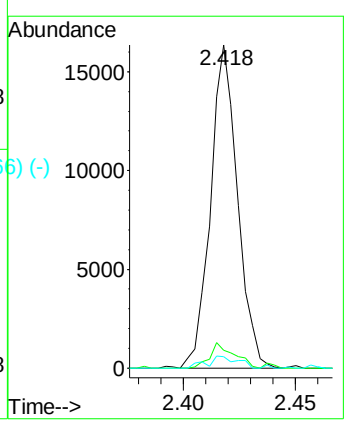




#24
1,1-Dichloroethane
Concen: 0.601 ppbv
RT: 2.418 min Scan# 720
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

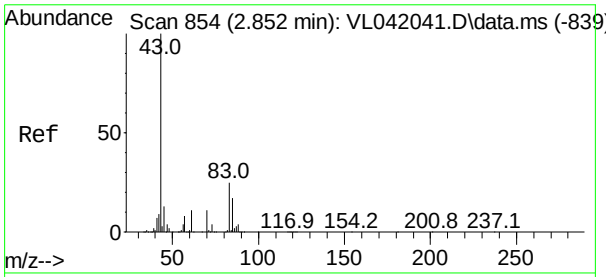
Tgt Ion: 63 Resp: 13783

Ion	Ratio	Lower	Upper
63	100		
98	5.6	2.4	7.2
100	3.6	1.7	5.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

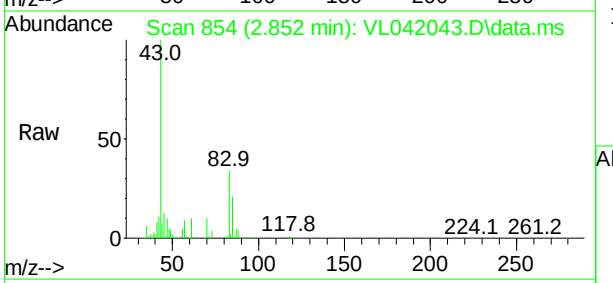
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

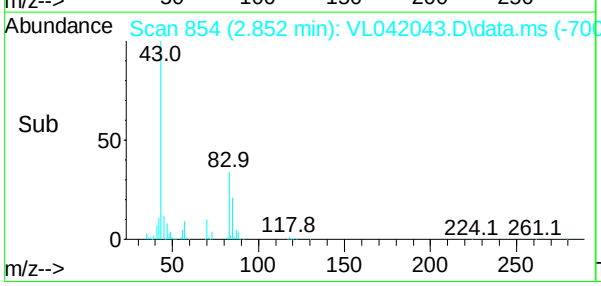


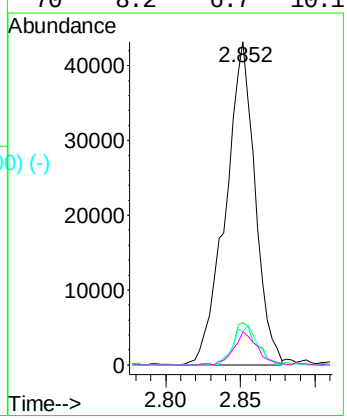
#25
Ethyl Acetate
Concen: 0.811 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

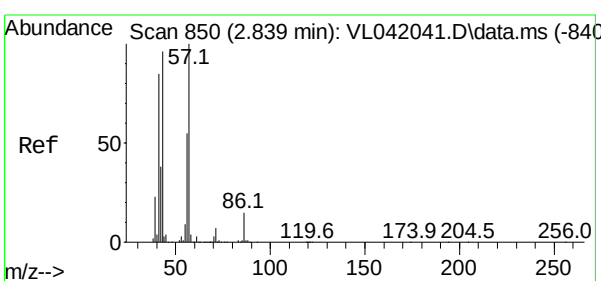
Tgt Ion: 43 Resp: 59183

Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.1	12.1
61	9.7	7.2	10.8
70	8.2	6.7	10.1





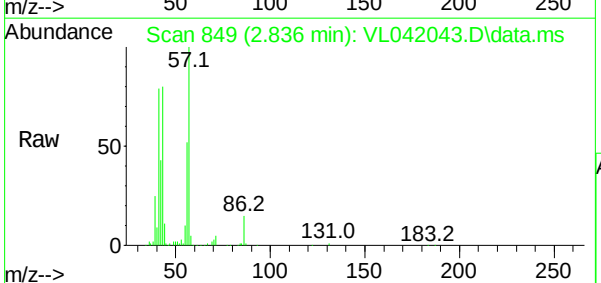


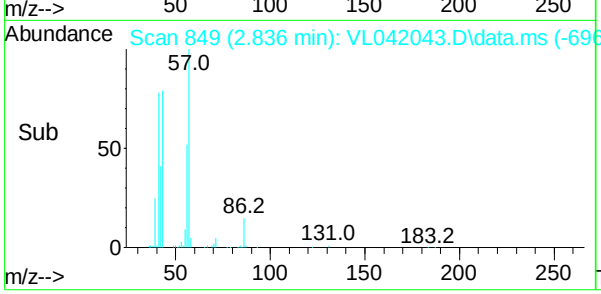


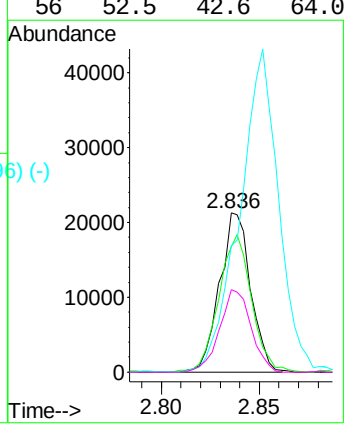
#26
Hexane
Concen: 0.804 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

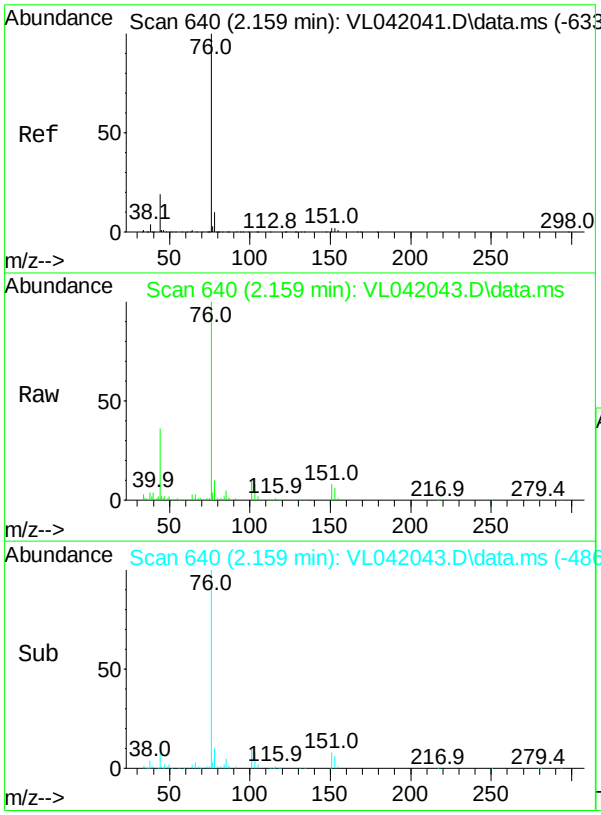
Tgt Ion: 57 Resp: 23549

Ion	Ratio	Lower	Upper
57	100		
41	92.1	70.6	106.0
43	256.7	199.4	299.0
56	52.5	42.6	64.0





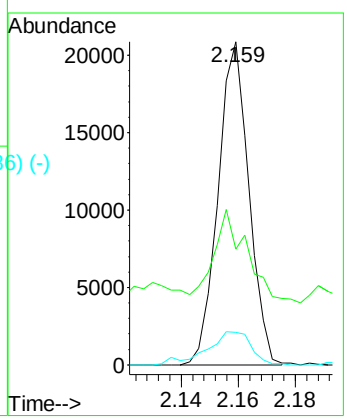


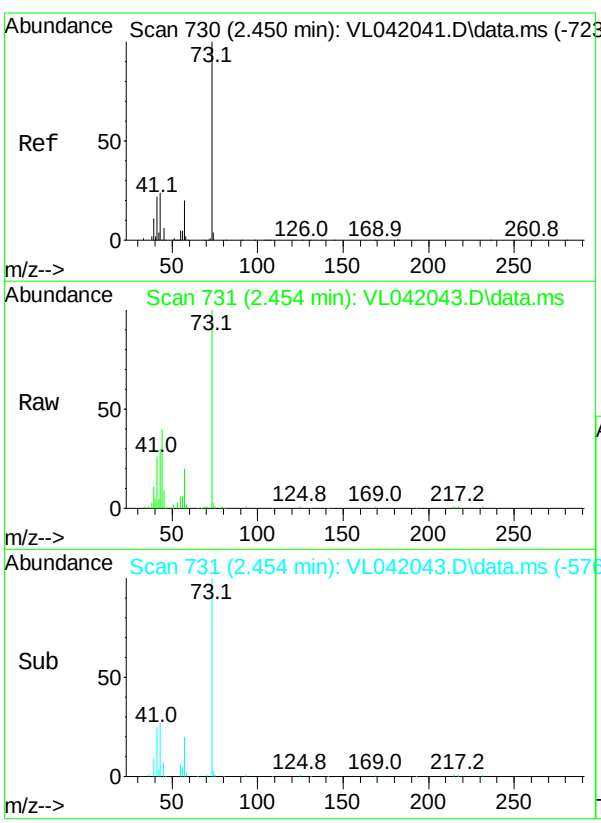


#27
Carbon Disulfide
Concen: 0.568 ppbv
RT: 2.159 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 76 Resp: 15659

Ion	Ratio	Lower	Upper
76	100		
44	57.5	16.2	24.2#
78	14.7	9.4	14.0#

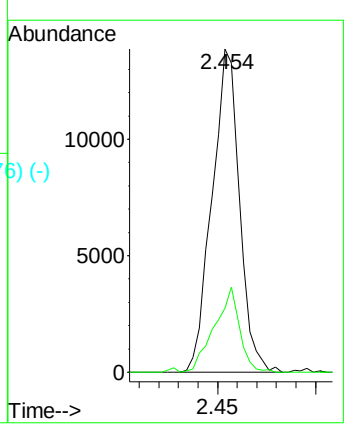




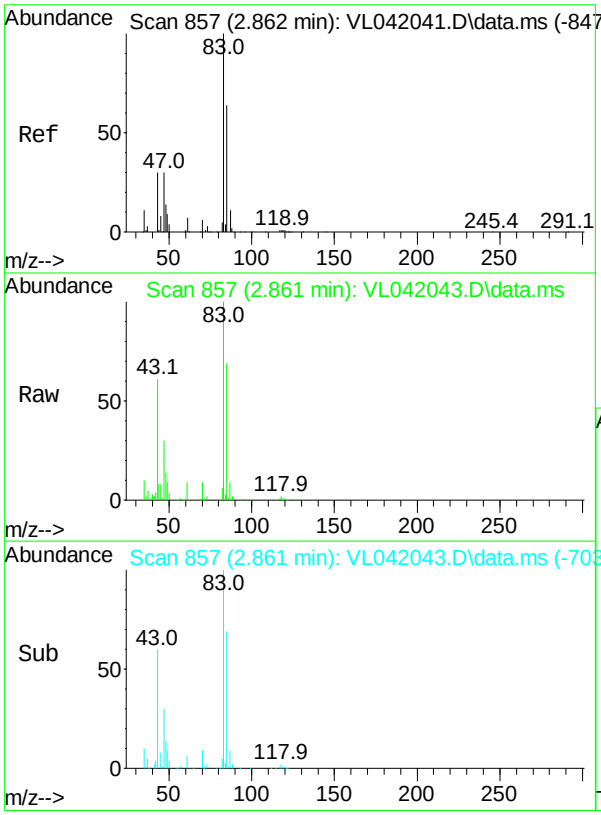
#28
Methyl tert-Butyl Ether
Concen: 0.759 ppbv
RT: 2.454 min Scan# 731
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 73 Resp: 13593

Ion	Ratio	Lower	Upper
73	100		
57	24.5	17.7	26.5



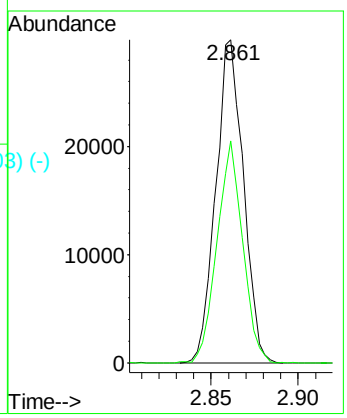
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

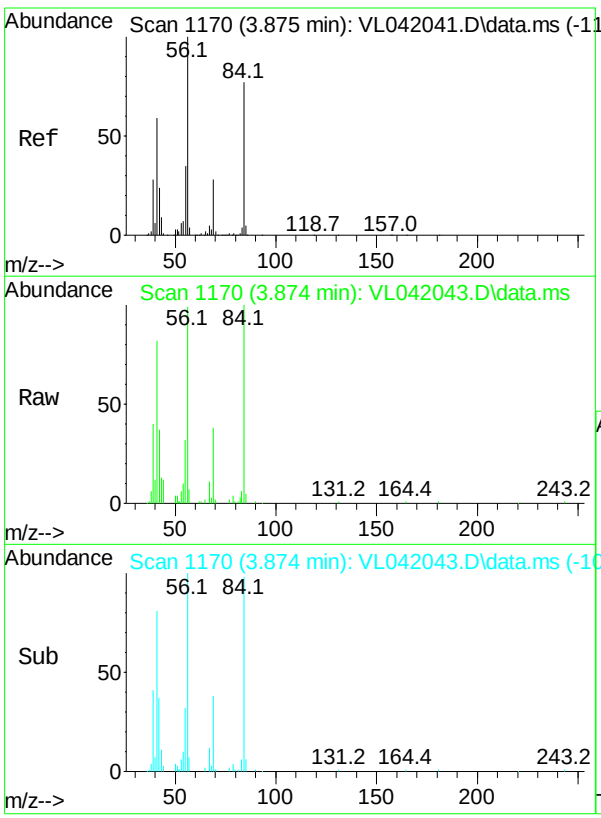


#29
Chloroform
Concen: 0.776 ppbv
RT: 2.861 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 83 Resp: 32925

Ion	Ratio	Lower	Upper
83	100		
85	68.5	51.2	76.8

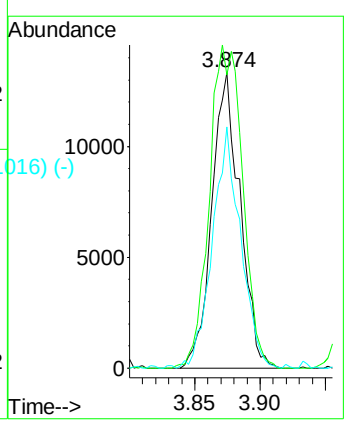




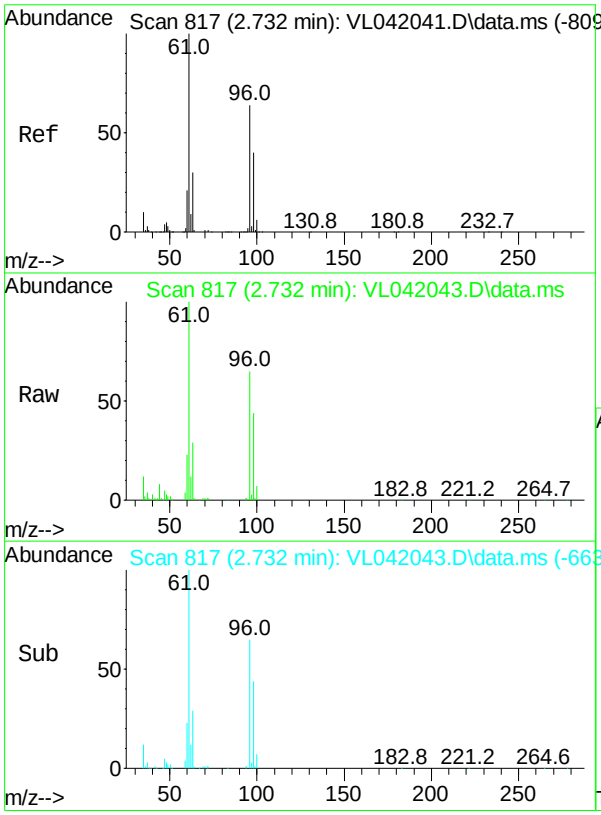
#30
Cyclohexane
Concen: 0.840 ppbv
RT: 3.874 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 84 Resp: 19953

Ion	Ratio	Lower	Upper
84	100		
56	129.3	101.5	152.3
41	82.1	62.6	93.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

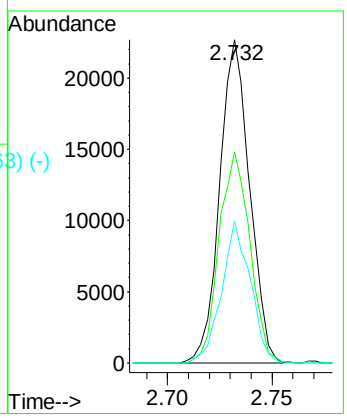


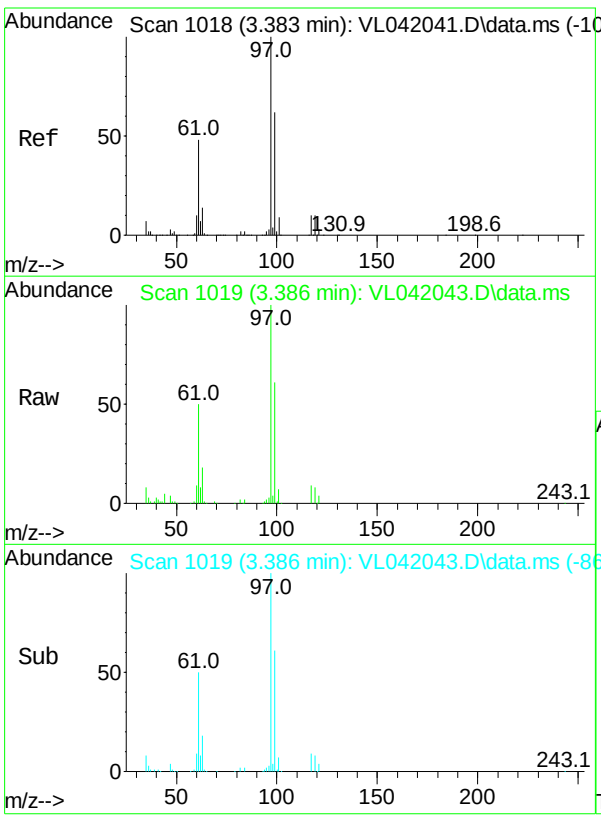
#31
cis-1,2-Dichloroethene
Concen: 0.780 ppbv
RT: 2.732 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 61 Resp: 22565

Ion	Ratio	Lower	Upper
61	100		
96	65.3	51.5	77.3
98	43.9	32.0	48.0

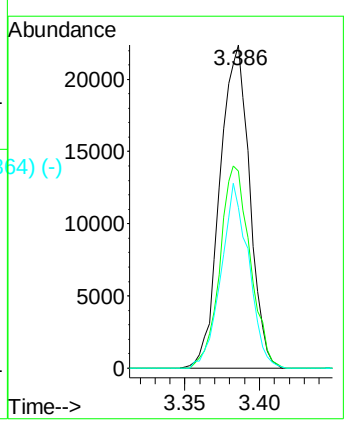


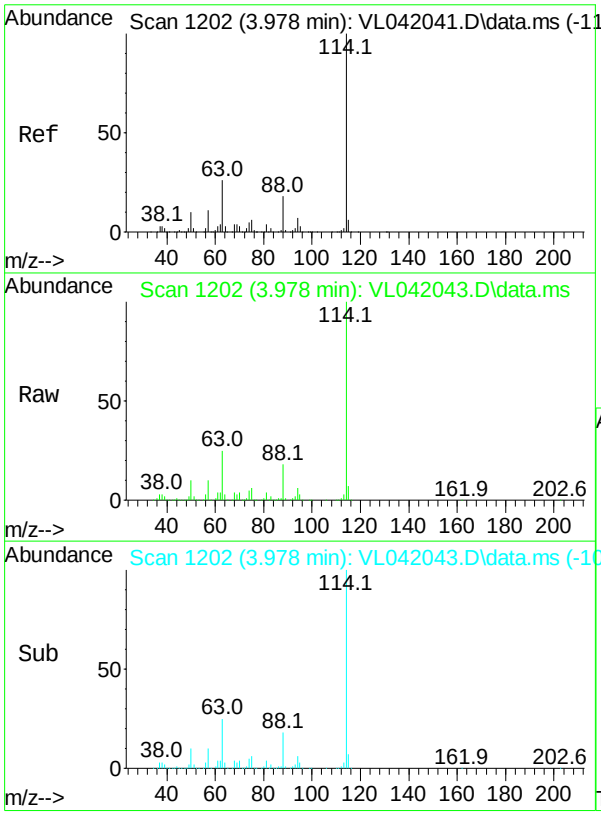


#32
1,1,1-Trichloroethane
Concen: 0.656 ppbv
RT: 3.386 min Scan# 1019
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 97 Resp: 30870

Ion	Ratio	Lower	Upper
97	100		
99	63.6	49.8	74.6
61	53.1	38.9	58.3



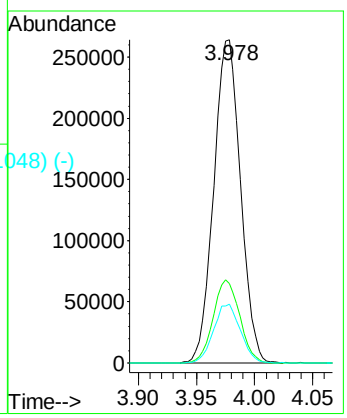


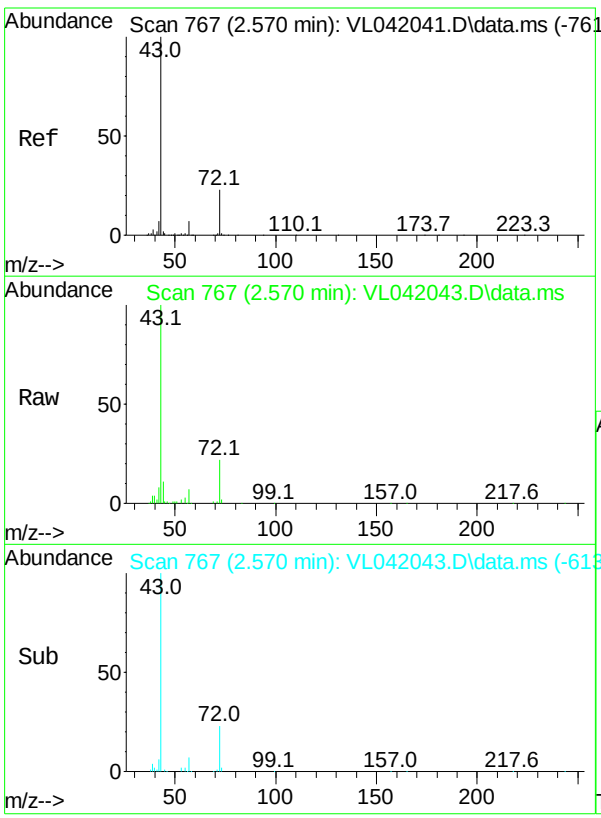
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:114 Resp: 423363

Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.1	30.1
88	18.2	14.3	21.5

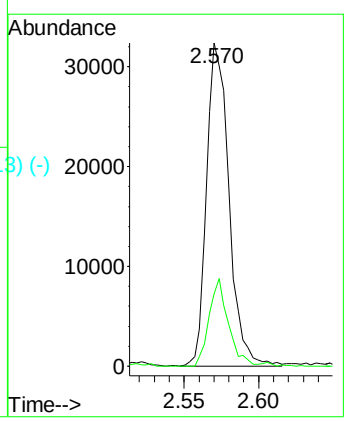


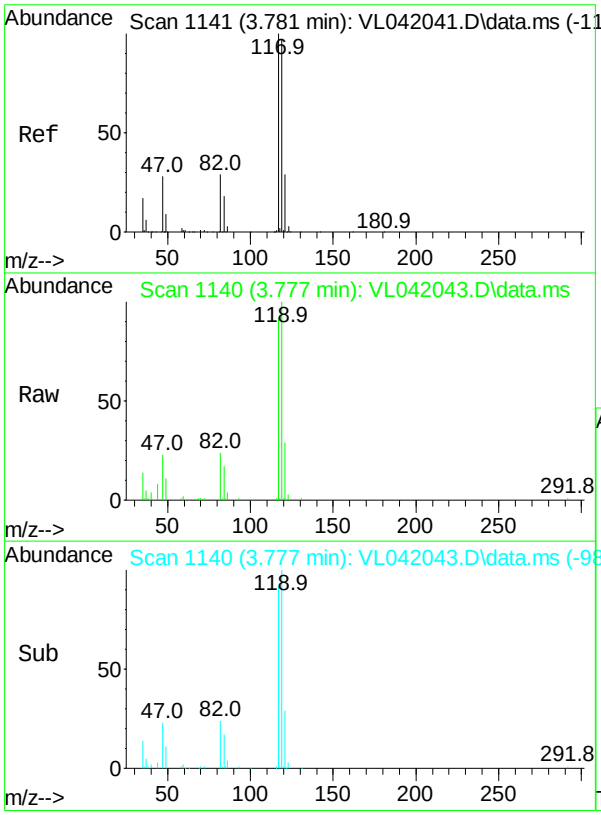


#34
2-Butanone
Concen: 0.929 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 33820

Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.5	27.7



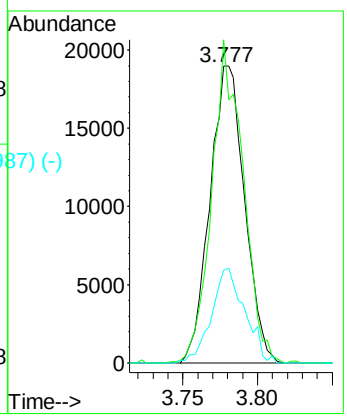


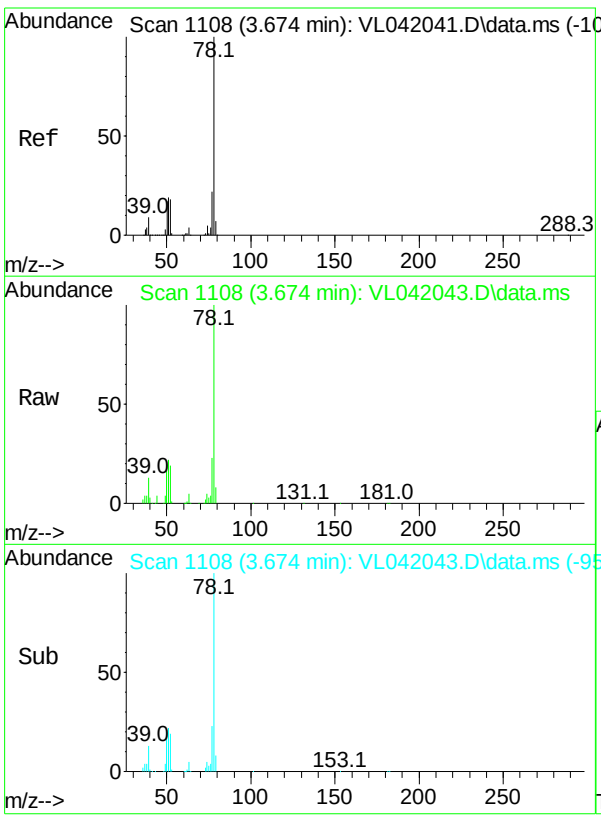
#85
Carbon Tetrachloride
Concen: 0.745 ppbv
RT: 3.777 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 30618

Ion	Ratio	Lower	Upper
117	100		
119	108.5	77.8	116.8
121	31.3	23.4	35.0

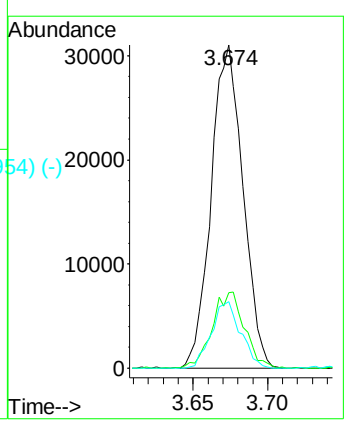


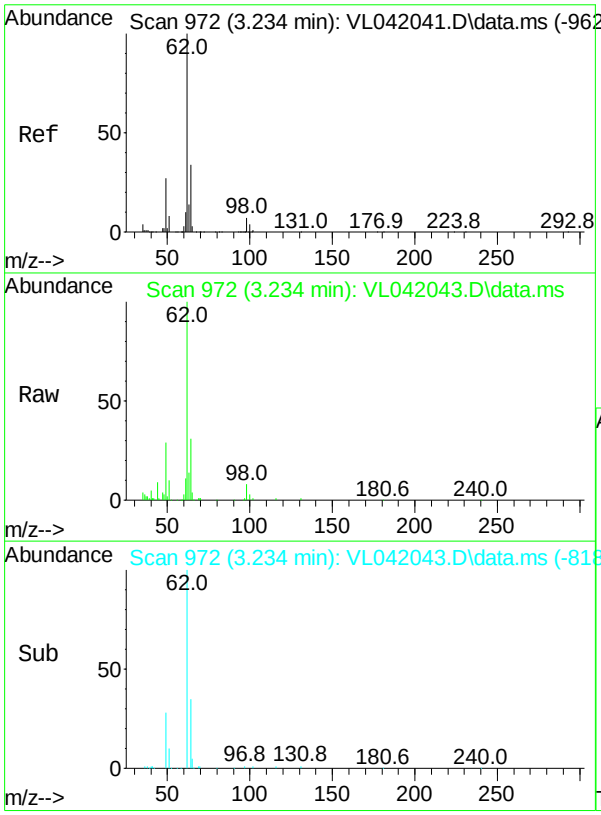


#36
Benzene
Concen: 0.895 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 78 Resp: 45892

Ion	Ratio	Lower	Upper
78	100		
77	23.2	17.7	26.5
50	20.5	13.9	20.9

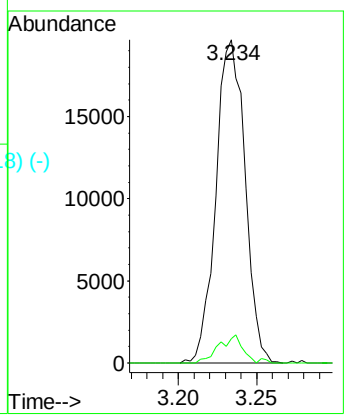


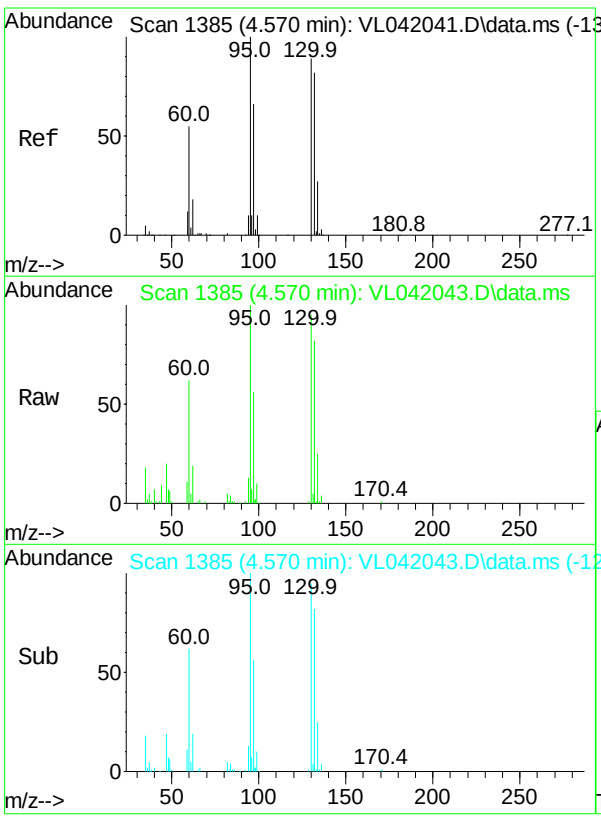


#37
1,2-Dichloroethane
Concen: 0.876 ppbv
RT: 3.234 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 62 Resp: 25585

Ion	Ratio	Lower	Upper
62	100		
98	7.4	5.7	8.5

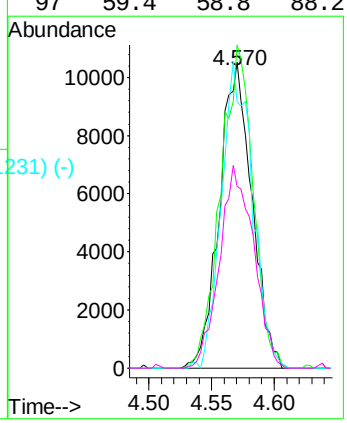




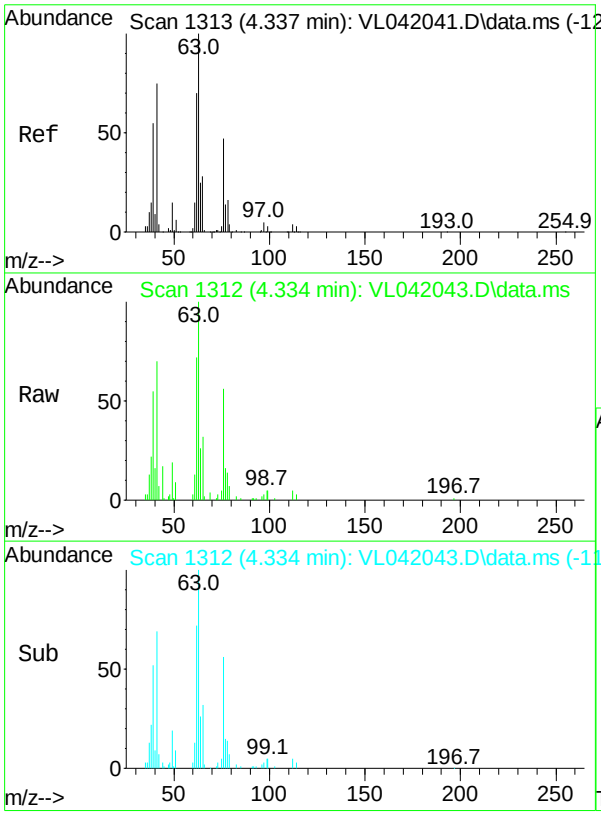
#38
Trichloroethene
Concen: 0.908 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:130 Resp: 18921

Ion	Ratio	Lower	Upper
130	100		
95	105.7	89.5	134.3
132	87.0	73.8	110.6
97	59.4	58.8	88.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

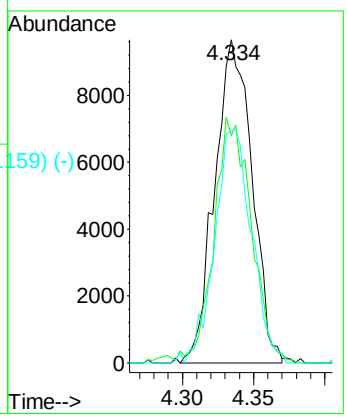


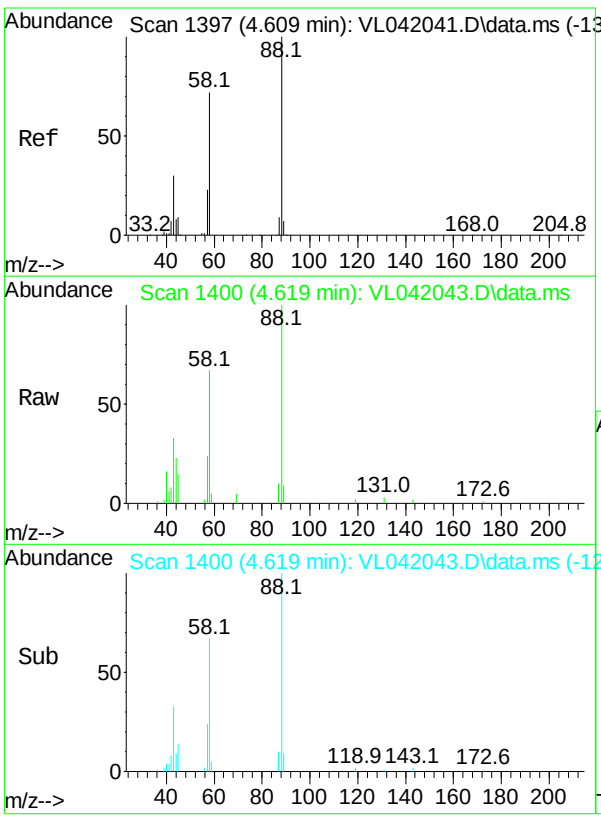
#89
1,2-Dichloropropane
Concen: 0.934 ppbv
RT: 4.334 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 17557

Ion	Ratio	Lower	Upper
63	100		
41	67.2	60.1	90.1
62	68.5	55.8	83.8

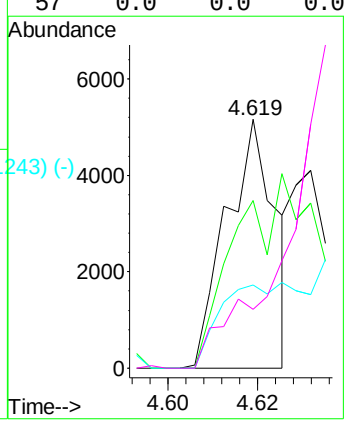


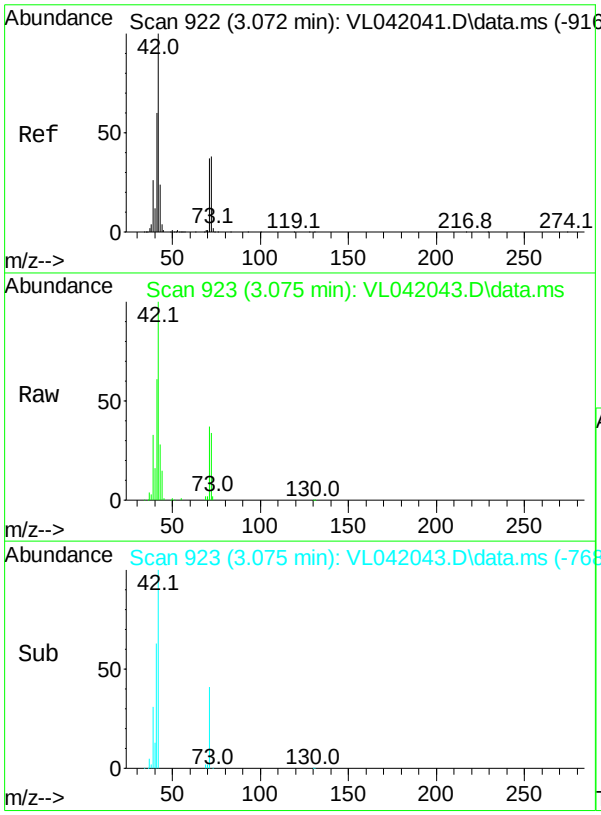


#90
1,4-Dioxane
Concen: 0.398 ppbv
RT: 4.619 min Scan# 1400
Delta R.T. 0.010 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 88 Resp: 3890

Ion	Ratio	Lower	Upper
88	100		
58	263.4	62.6	94.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0



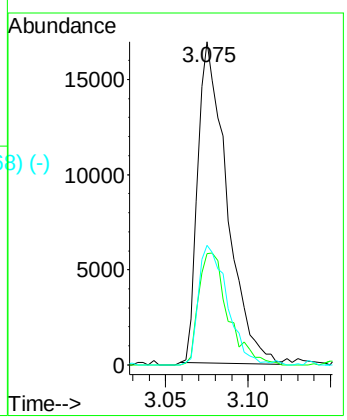


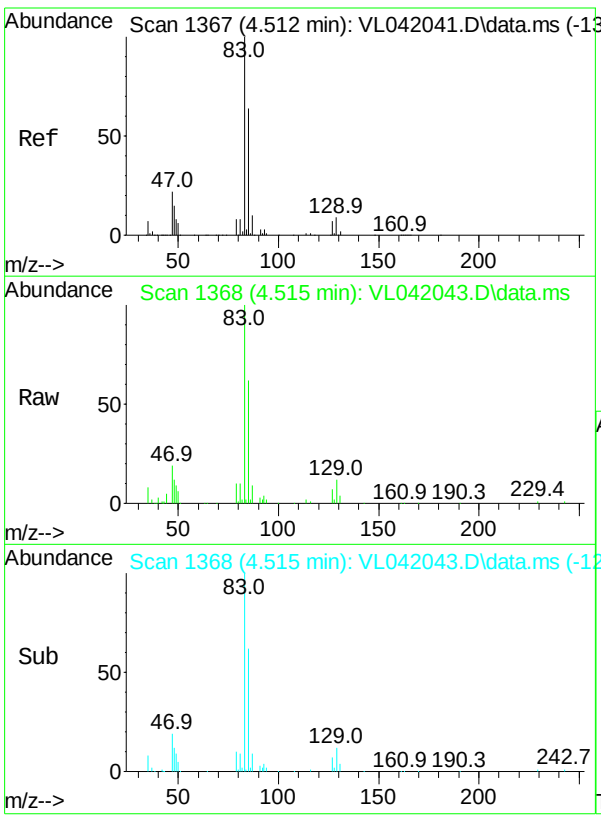
#41
Tetrahydrofuran
Concen: 1.000 ppbv
RT: 3.075 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 20823

Ion	Ratio	Lower	Upper
42	100		
72	35.0	30.2	45.2
71	37.3	28.2	42.4

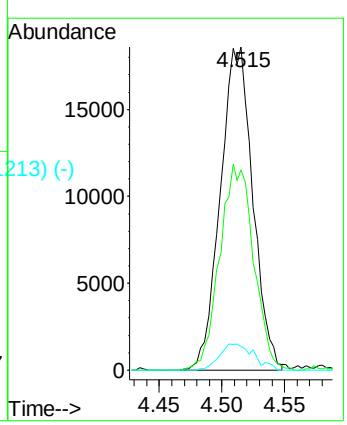


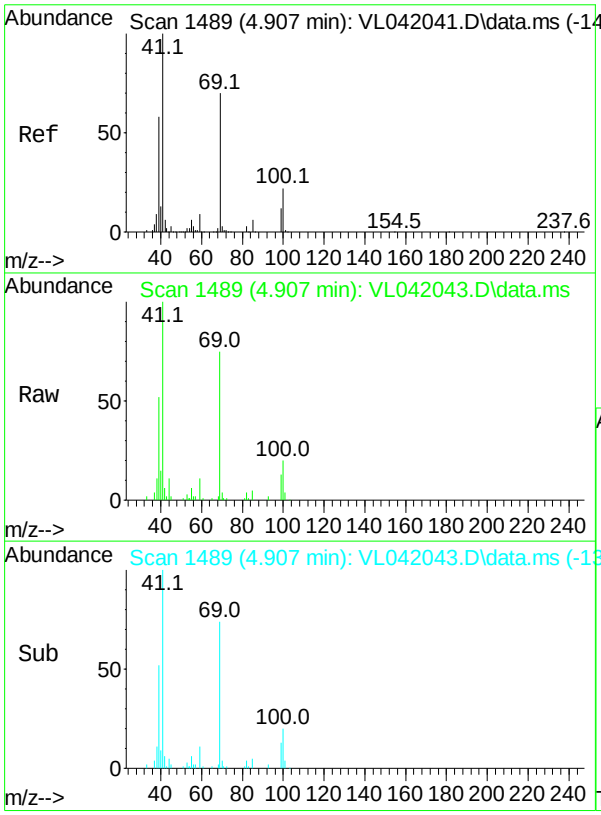


#42
Bromodichloromethane
Concen: 0.847 ppbv
RT: 4.515 min Scan# 1368
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 83 Resp: 33481

Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.4	77.2
127	7.4	5.8	8.6



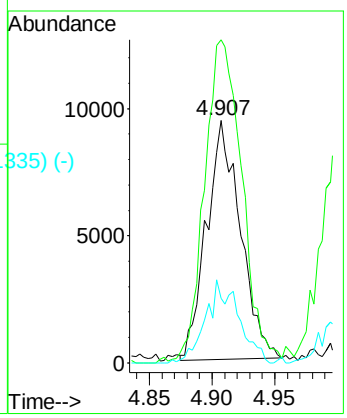


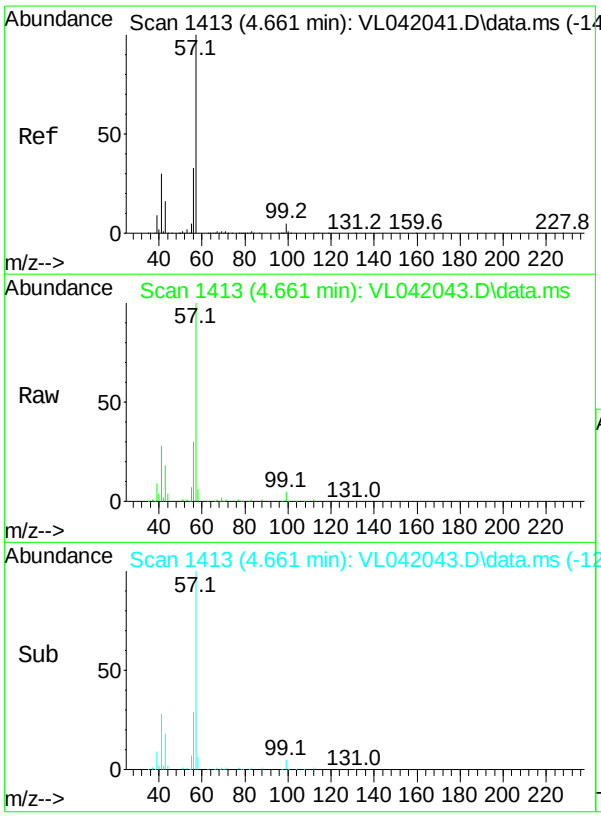
#43
Methyl Methacrylate
Concen: 0.756 ppbv
RT: 4.907 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 17679

Ion	Ratio	Lower	Upper
69	100		
41	148.9	118.2	177.4
100	34.0	27.0	40.4

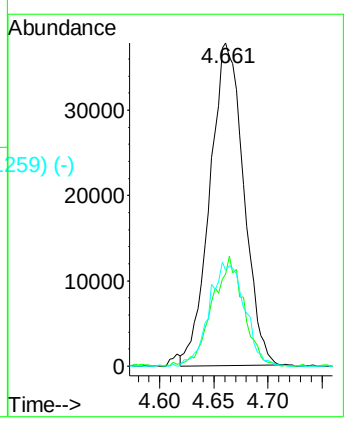


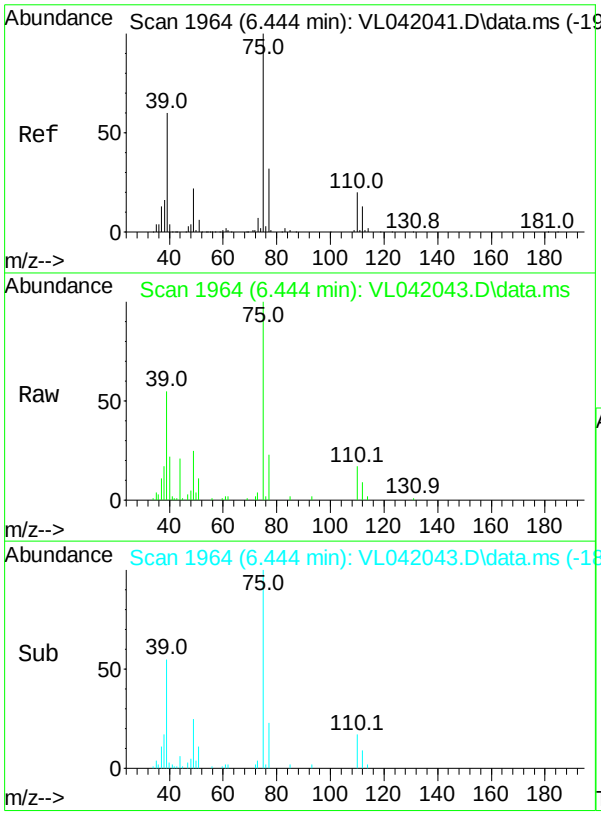


#44
2,2,4-Trimethylpentane
Concen: 0.941 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 57 Resp: 81921

Ion	Ratio	Lower	Upper
57	100		
41	31.8	24.4	36.6
56	33.7	26.5	39.7

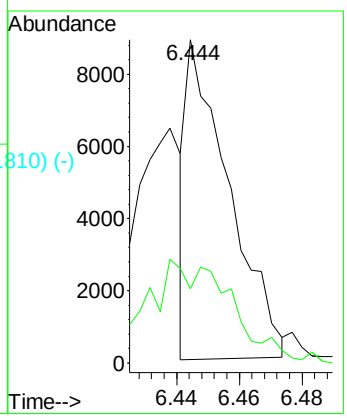




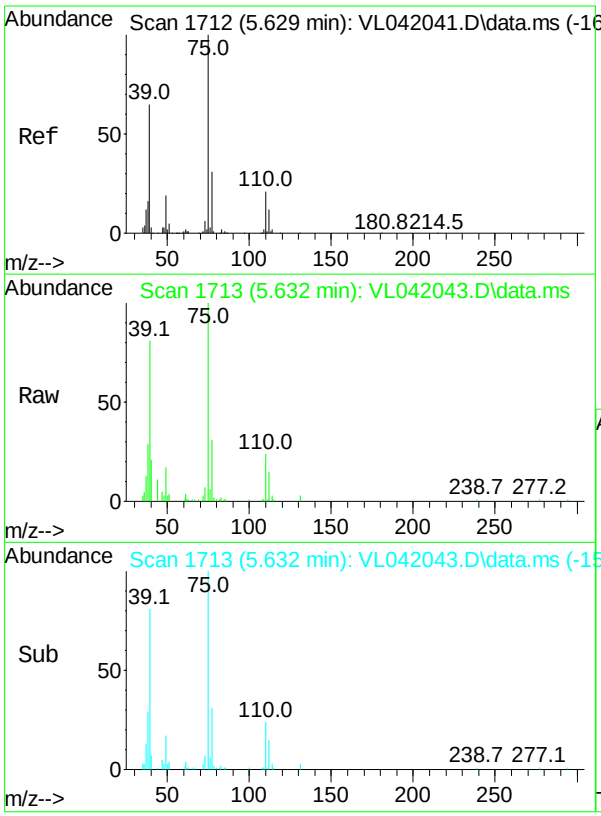
#45
t-1,3-Dichloropropene
Concen: 0.376 ppbv
RT: 6.444 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 75 Resp: 8303

Ion	Ratio	Lower	Upper
75	100		
77	22.9	25.9	38.9#



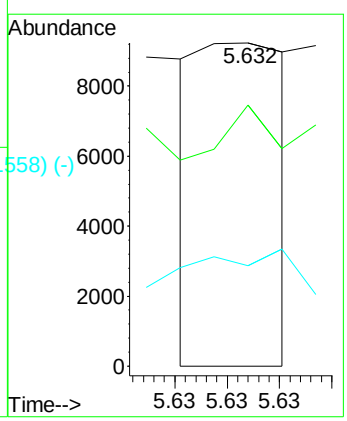
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

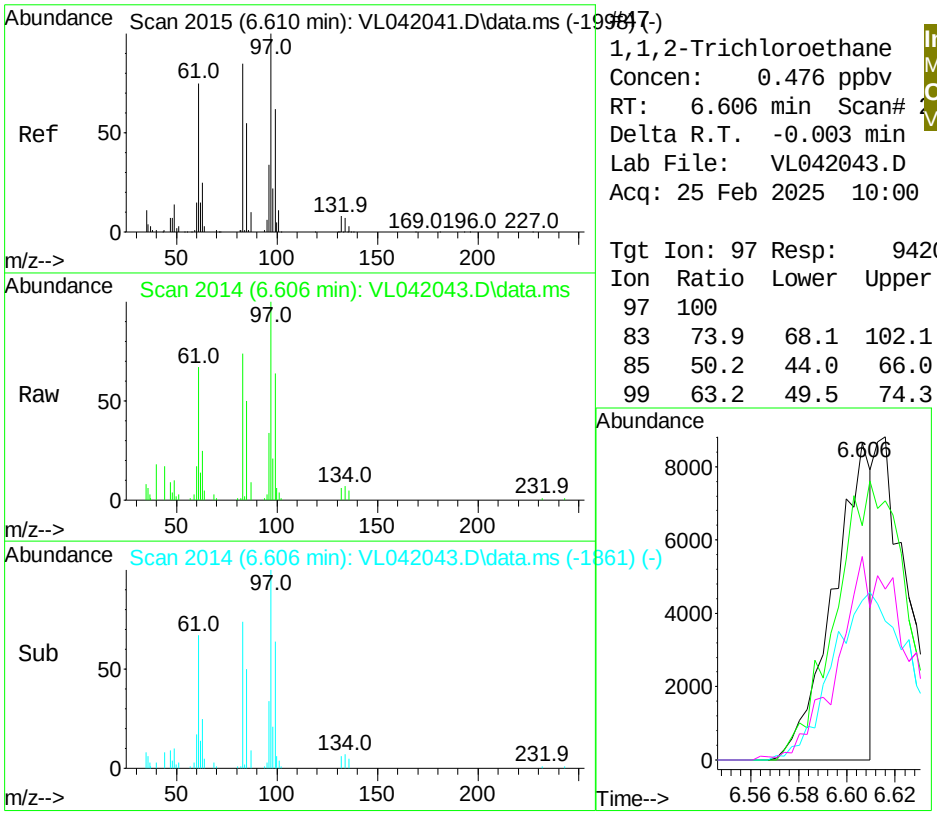


#46
cis-1,3-Dichloropropene
Concen: 0.190 ppbv
RT: 5.632 min Scan# 1713
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 75 Resp: 5320

Ion	Ratio	Lower	Upper
75	100		
39	348.6	51.9	77.9#
77	12.4	24.9	37.3#



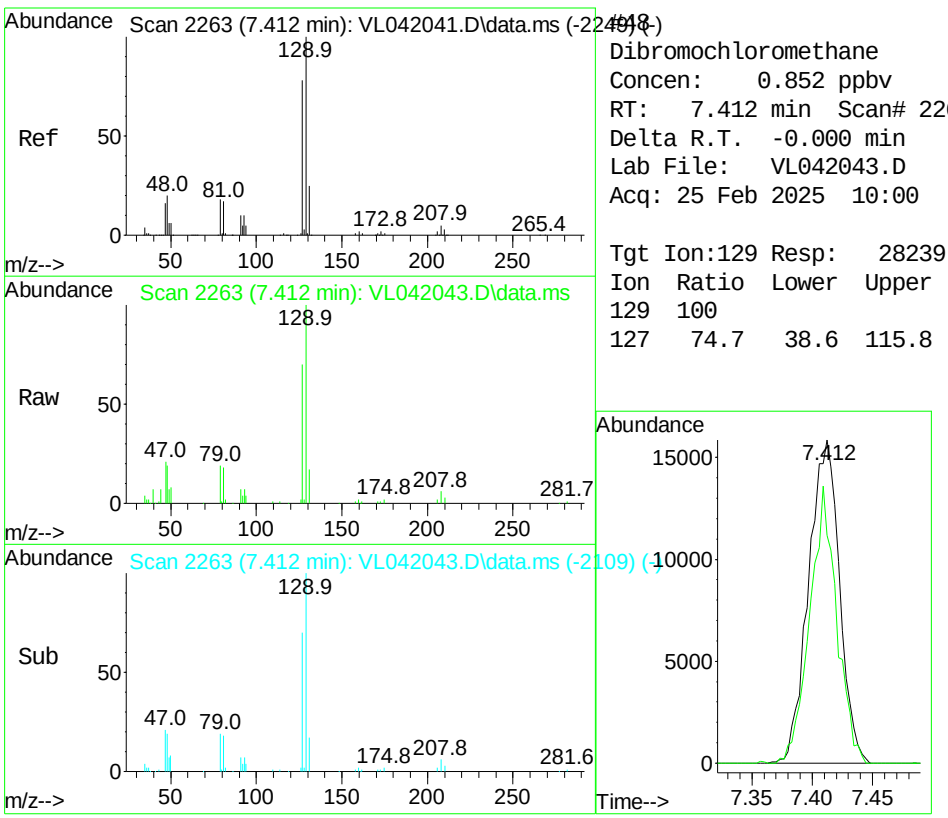


#47
1,1,2-Trichloroethane
Concen: 0.476 ppbv
RT: 6.606 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 9420

Ion	Ratio	Lower	Upper
97	100		
83	73.9	68.1	102.1
85	50.2	44.0	66.0
99	63.2	49.5	74.3

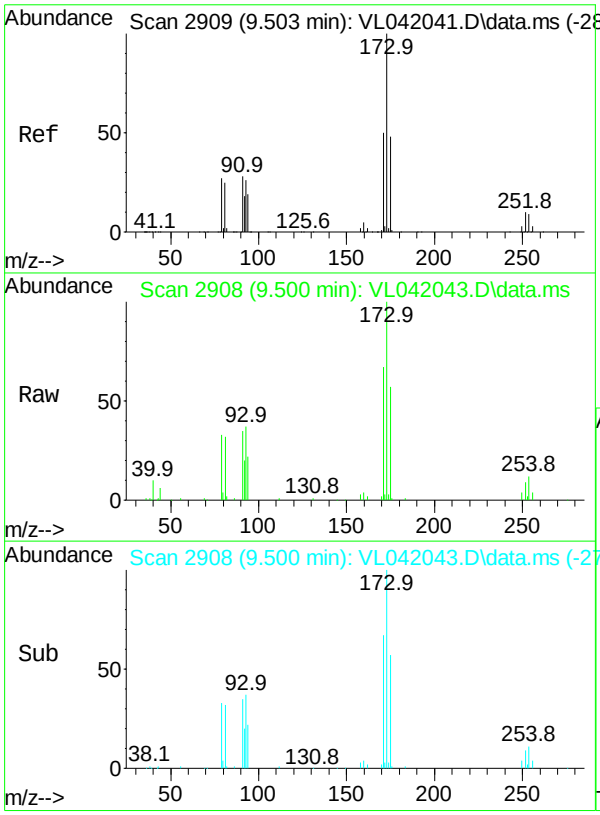


#48
Dibromochloromethane
Concen: 0.852 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:129 Resp: 28239

Ion	Ratio	Lower	Upper
129	100		
127	74.7	38.6	115.8

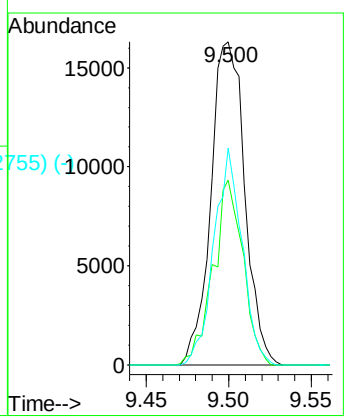
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

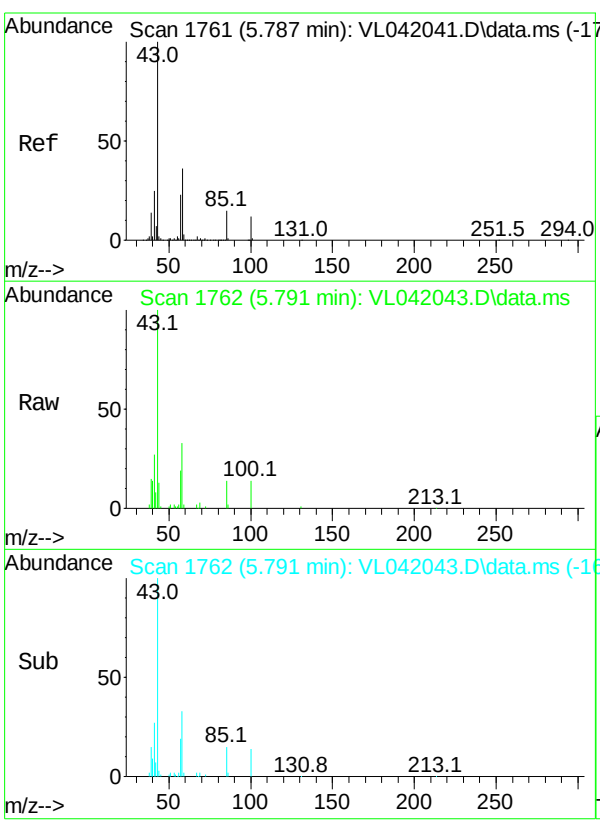


#49
Bromoform
Concen: 0.858 ppbv
RT: 9.500 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:173 Resp: 23310

Ion	Ratio	Lower	Upper
173	100		
175	50.5	38.3	57.5
171	55.5	40.2	60.2

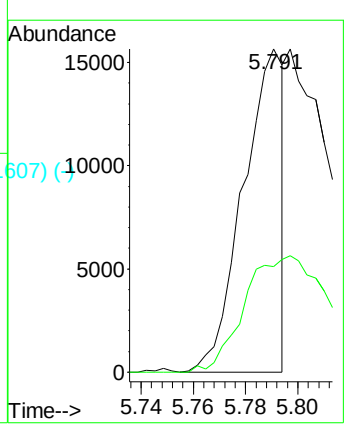


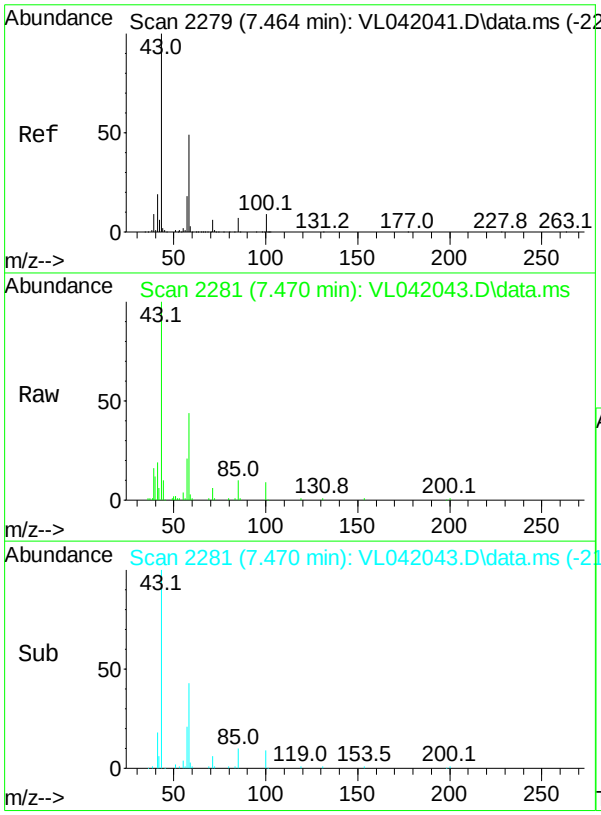


#50
4-Methyl-2-Pentanone
Concen: 0.298 ppbv
RT: 5.791 min Scan# 1762
Delta R.T. 0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 16703

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.3	43.9#

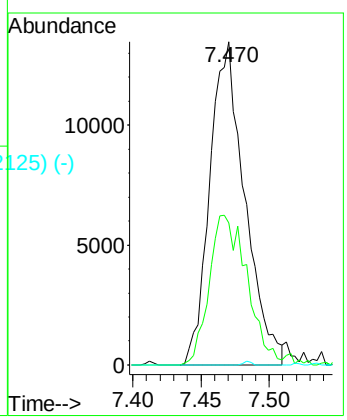


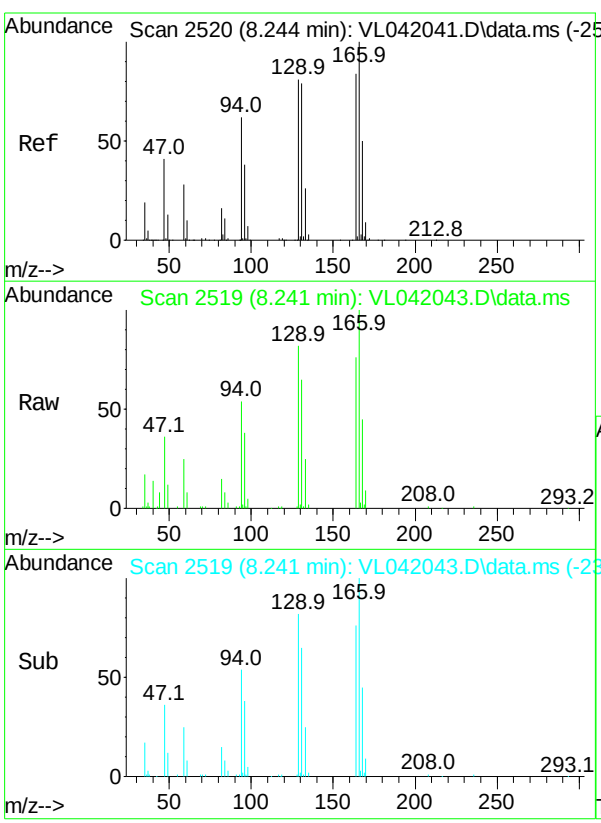


#51
2-Hexanone
Concen: 0.527 ppbv
RT: 7.470 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 43 Resp: 24117

Ion	Ratio	Lower	Upper
43	100		
58	51.0	39.0	58.6
98	0.3	0.1	0.1#

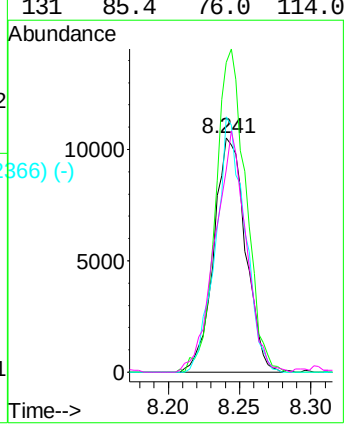




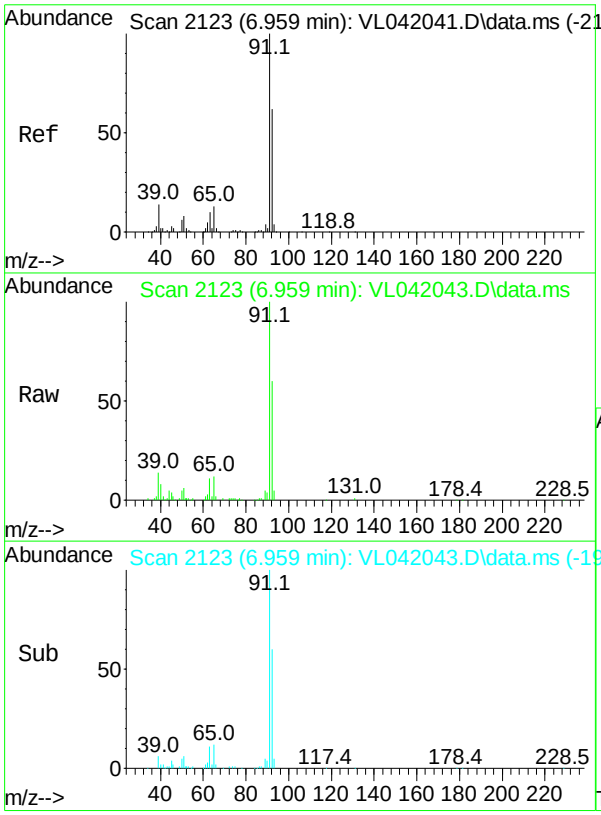
#52
Tetrachloroethene
Concen: 0.907 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:164 Resp: 16217

Ion	Ratio	Lower	Upper
164	100		
166	131.2	95.7	143.5
129	109.1	77.1	115.7
131	85.4	76.0	114.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

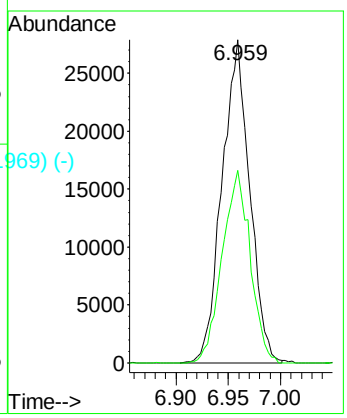


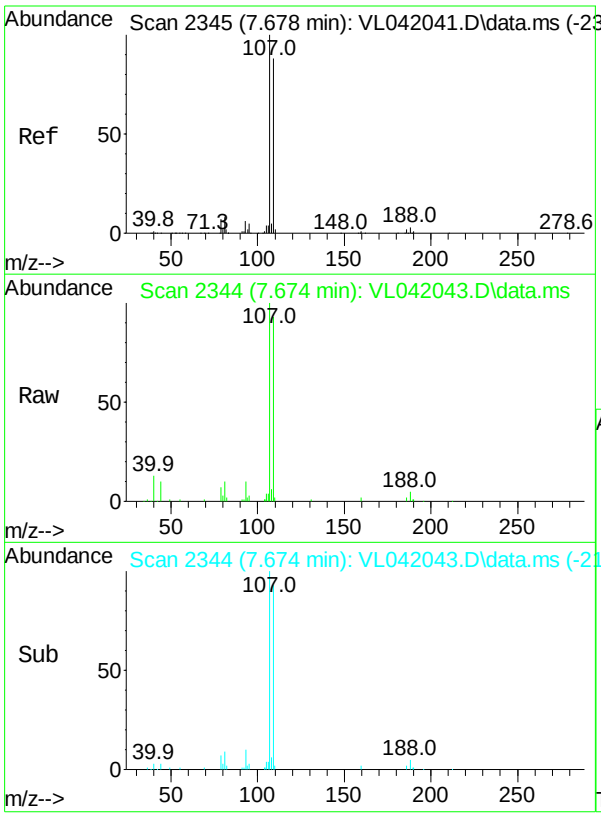
#53
Toluene
Concen: 0.838 ppbv
RT: 6.959 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 51231

Ion	Ratio	Lower	Upper
91	100		
92	60.3	49.0	73.6

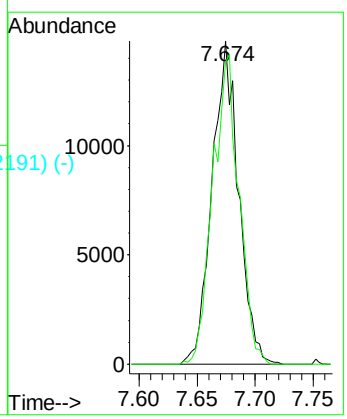


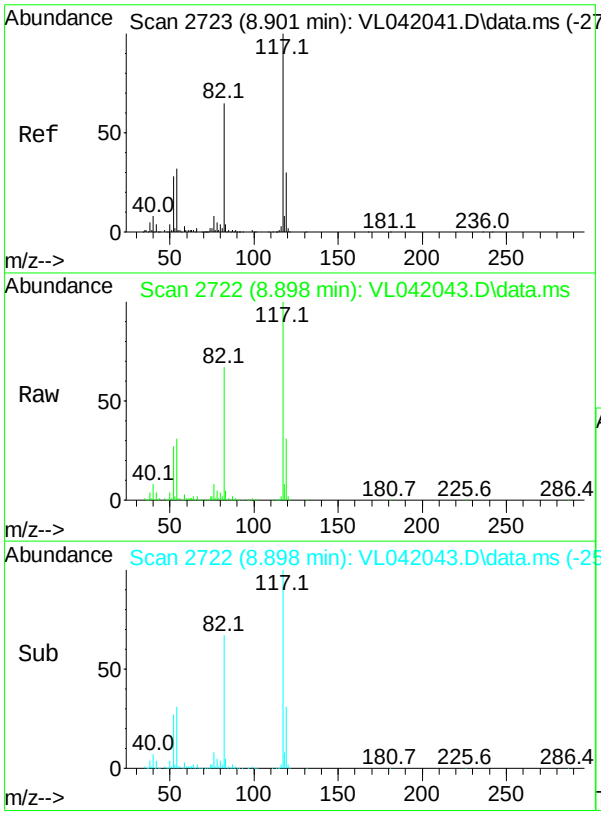


#54
1,2-Dibromoethane
Concen: 0.860 ppbv
RT: 7.674 min Scan# 2344
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:107 Resp: 23427

Ion	Ratio	Lower	Upper
107	100		
109	93.5	70.2	105.4

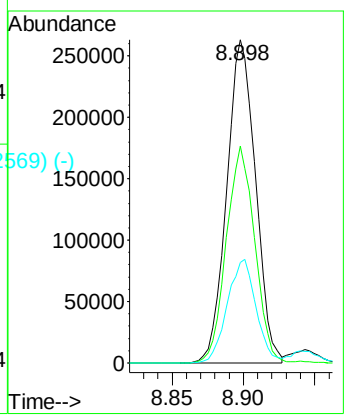




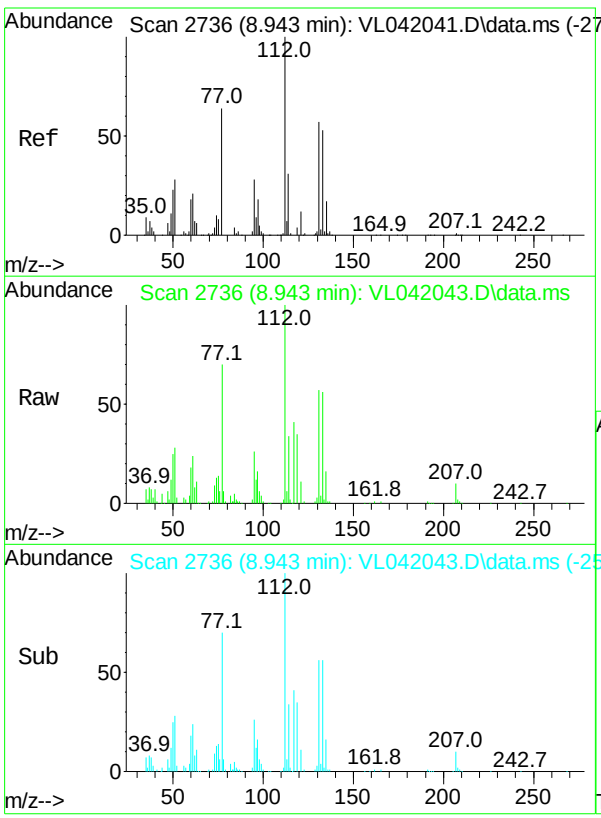
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:117 Resp: 369917

Ion	Ratio	Lower	Upper
117	100		
82	66.5	55.0	82.6
119	32.5	25.9	38.9



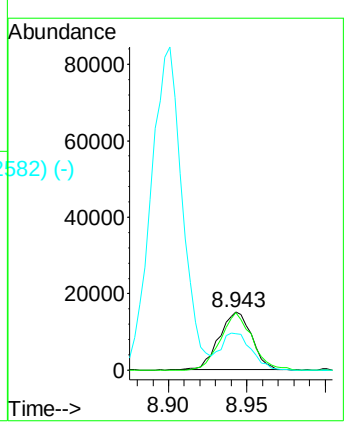
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

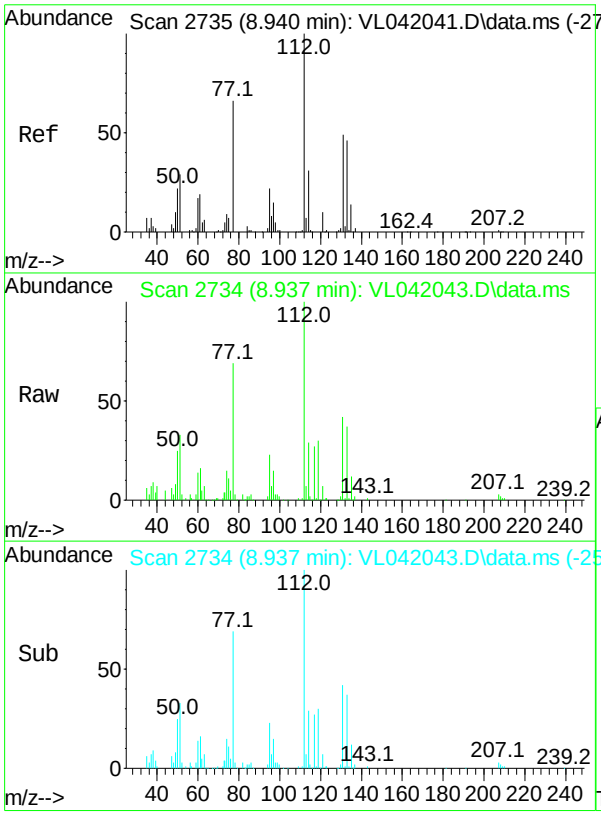


#56
1,1,1,2-Tetrachloroethane
Concen: 0.833 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:131 Resp: 22060

Ion	Ratio	Lower	Upper
131	100		
133	96.2	75.8	113.8
119	60.4	52.1	78.1

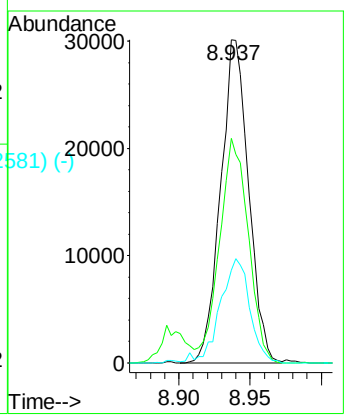




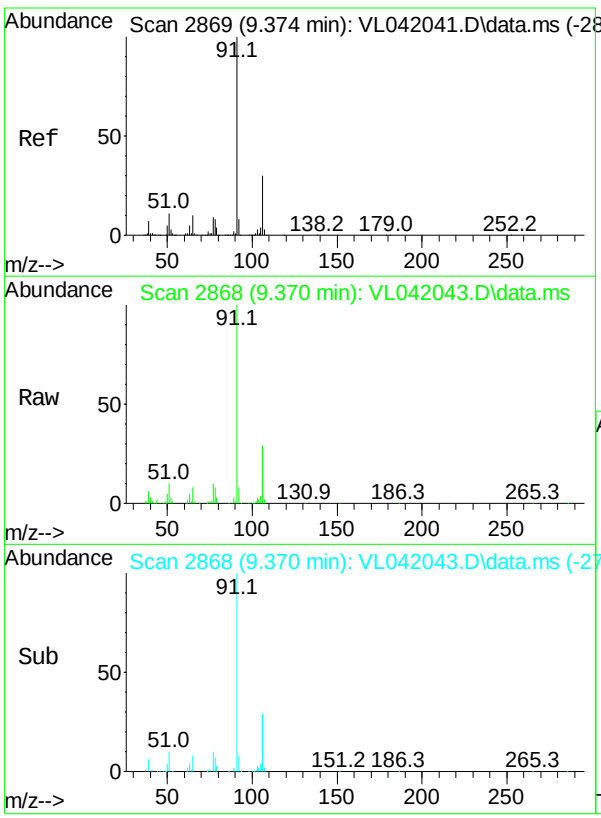
#57
Chlorobenzene
Concen: 0.946 ppbv
RT: 8.937 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:112 Resp: 41173

Ion	Ratio	Lower	Upper
112	100		
77	69.5	53.4	80.2
114	28.7	28.3	34.5



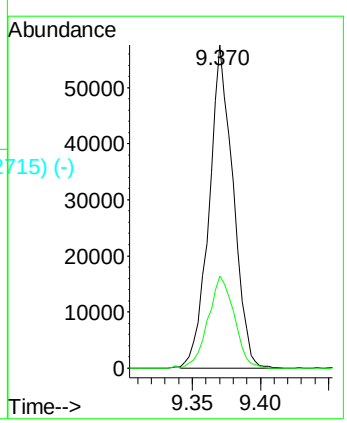
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

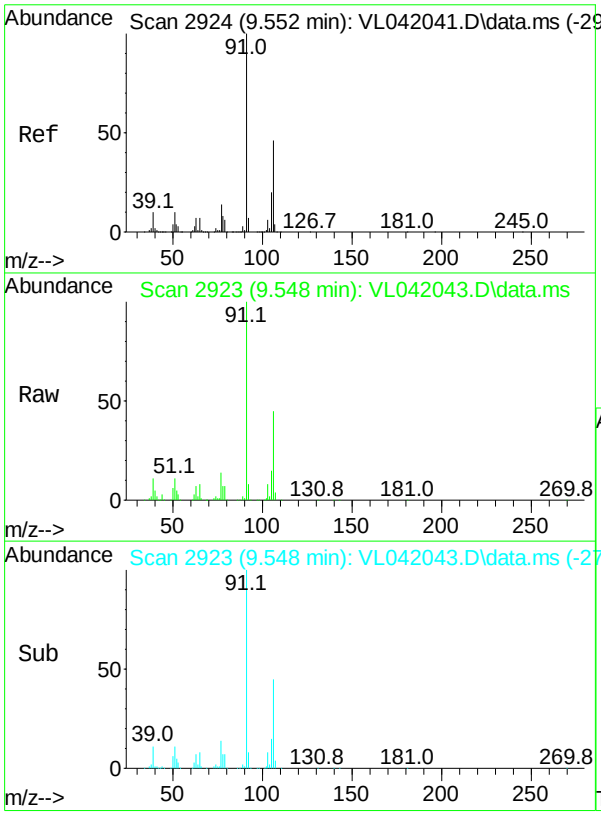


#58
Ethyl Benzene
Concen: 0.871 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 70507

Ion	Ratio	Lower	Upper
91	100		
106	28.5	24.2	36.2

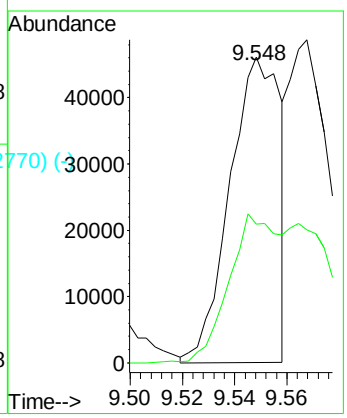




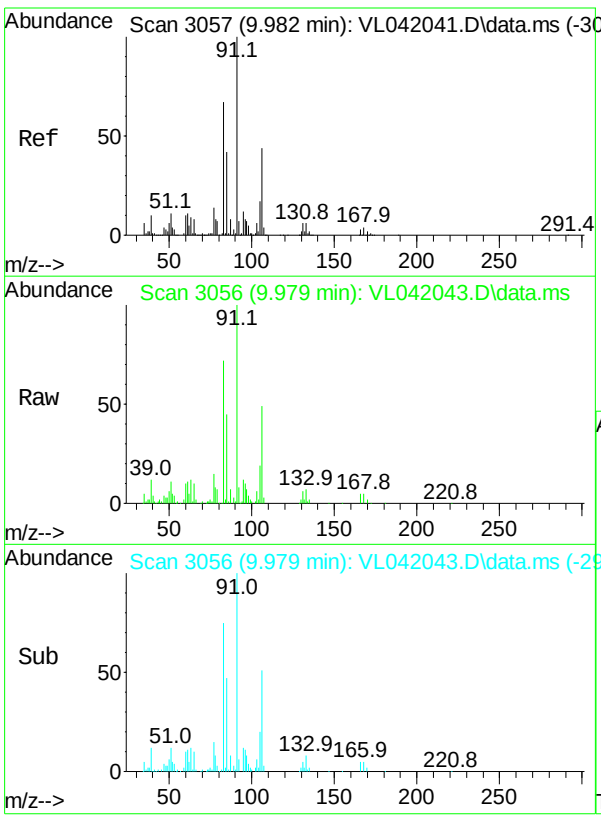
#59
m/p-Xylene
Concen: 0.965 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 61567

Ion	Ratio	Lower	Upper
91	100		
106	88.7	0.0	0.0#



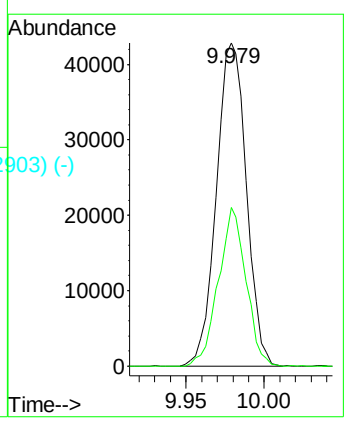
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

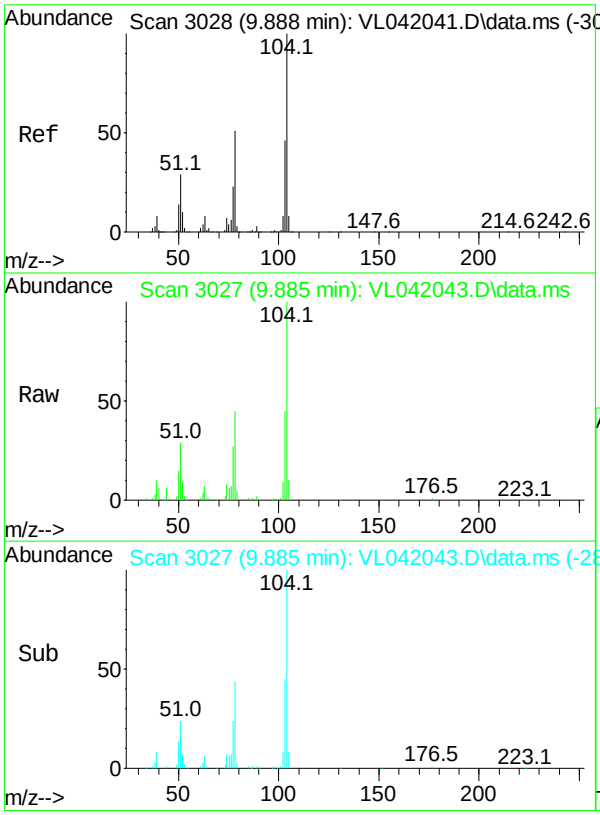


#60
o-Xylene
Concen: 0.889 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 57322

Ion	Ratio	Lower	Upper
91	100		
106	45.2	22.3	66.8

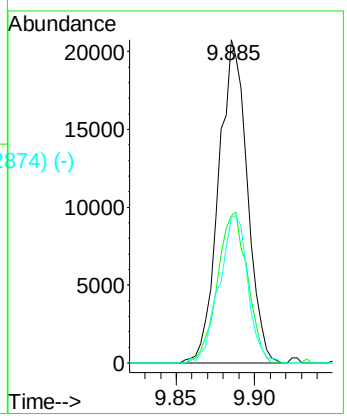




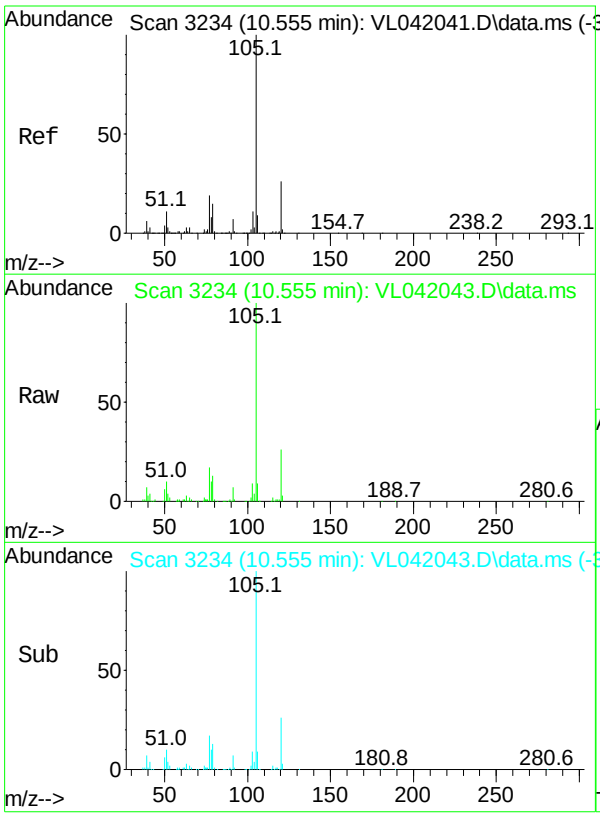
#61
Styrene
Concen: 0.865 ppbv
RT: 9.885 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:104 Resp: 26596

Ion	Ratio	Lower	Upper
104	100		
78	48.6	41.0	61.4
103	45.9	37.0	55.6



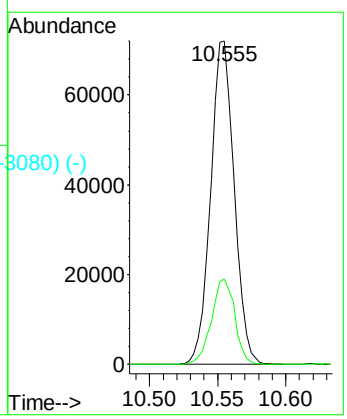
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

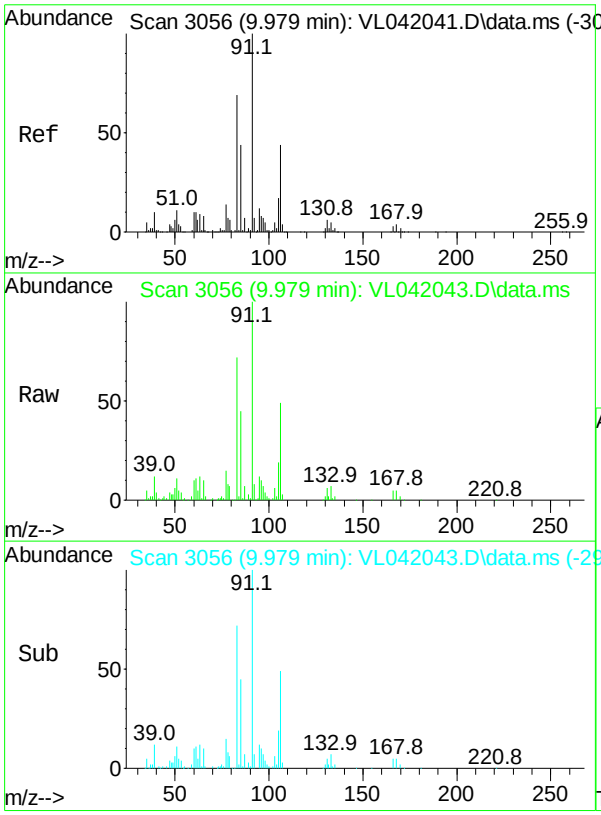


#62
Isopropylbenzene
Concen: 0.894 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 86533

Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.7	31.1

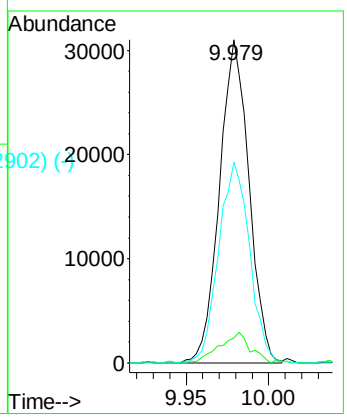




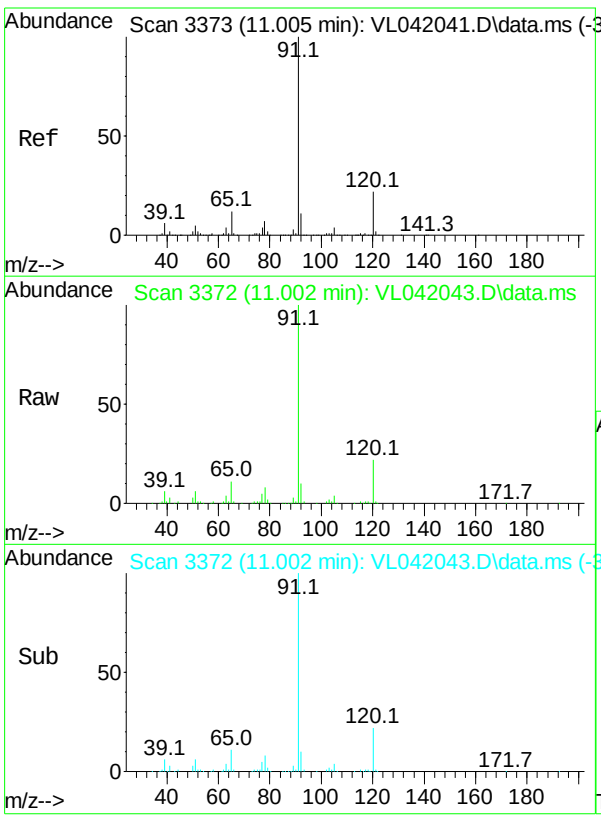
#63
1,1,2,2-Tetrachloroethan
Concen: 0.926 ppbv
RT: 9.979 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 83 Resp: 38520

Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.5	13.7
85	65.2	32.1	96.3



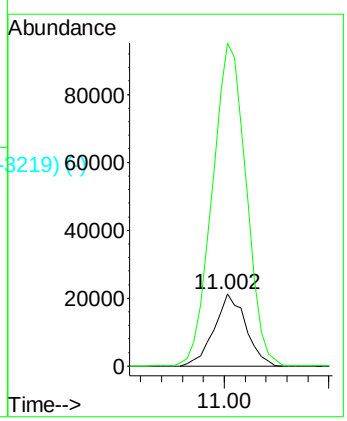
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



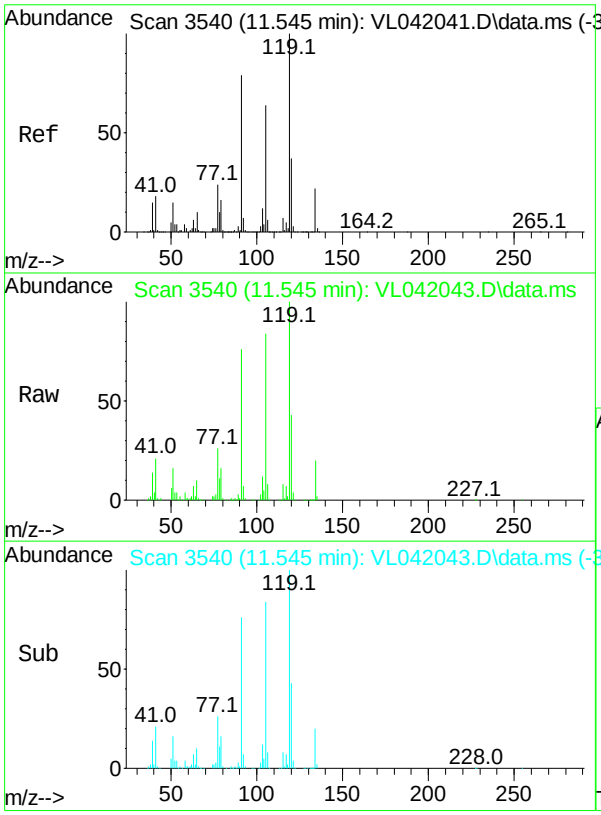
#64
n-propylbenzene
Concen: 0.944 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:120 Resp: 22456

Ion	Ratio	Lower	Upper
120	100		
91	478.3	370.6	556.0



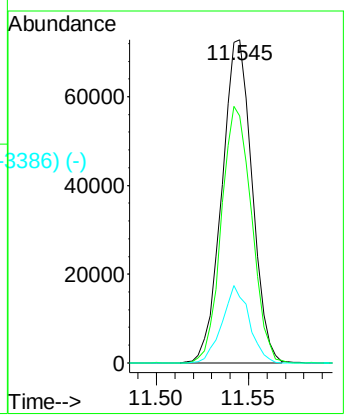
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

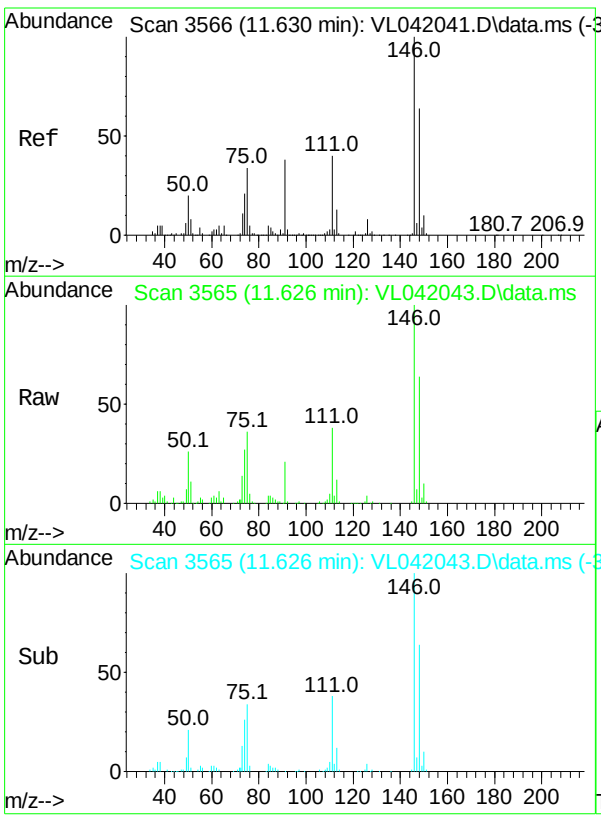


#65
tert-Butylbenzene
Concen: 0.987 ppbv
RT: 11.545 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:119 Resp: 83284

Ion	Ratio	Lower	Upper
119	100		
91	79.2	64.2	96.2
134	21.5	17.4	26.2

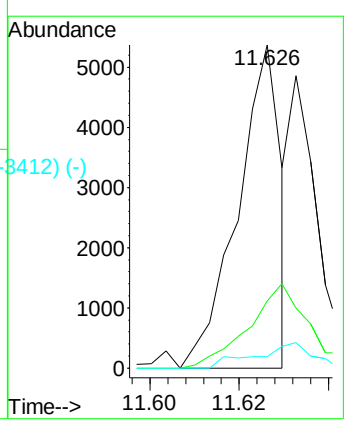


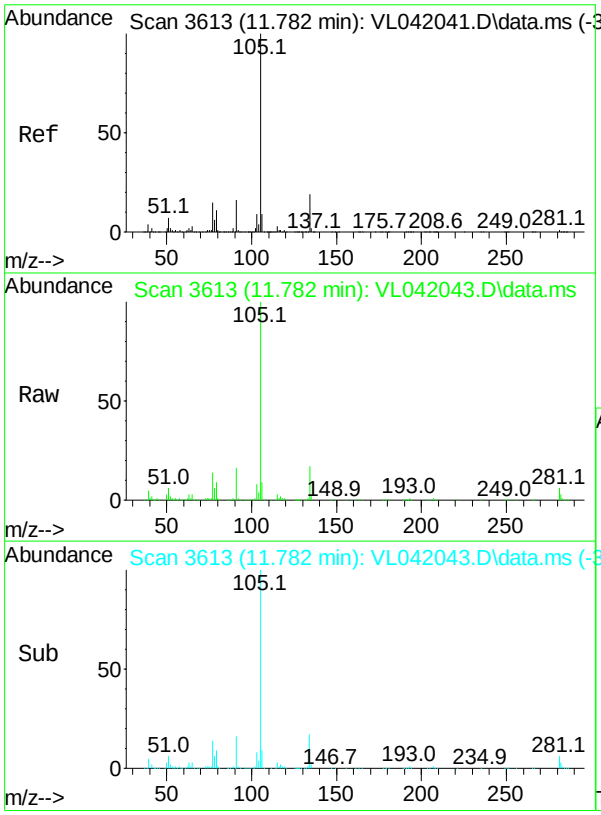


#66
Benzyl Chloride
Concen: 0.424 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 3586

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.5	21.7#
128	0.0	5.4	8.2#

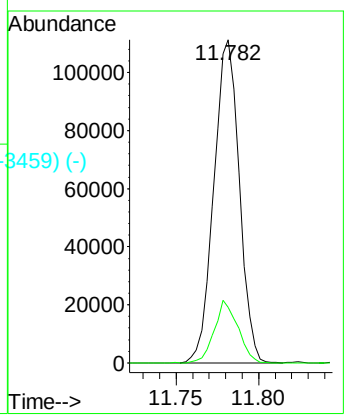


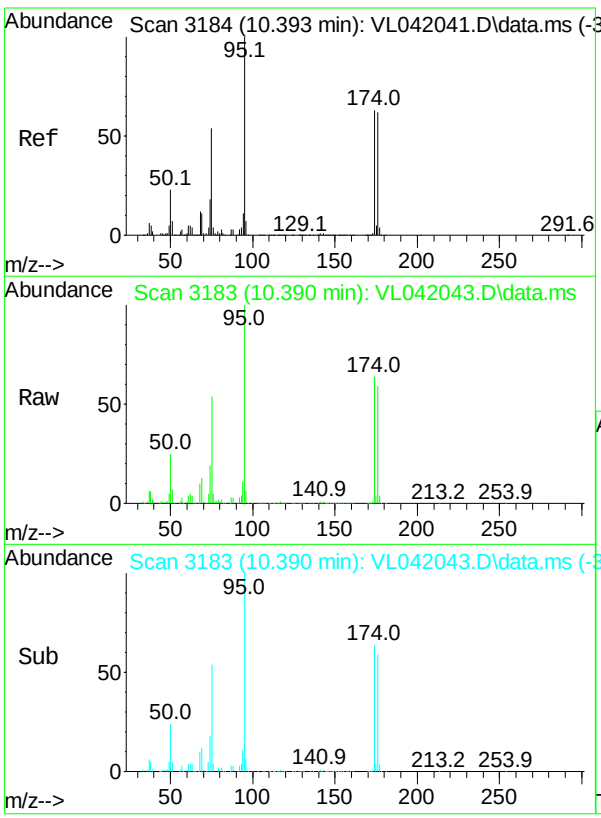


#67
sec-Butylbenzene
Concen: 1.007 ppbv
RT: 11.782 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 119435

Ion	Ratio	Lower	Upper
105	100		
134	18.1	14.9	22.3

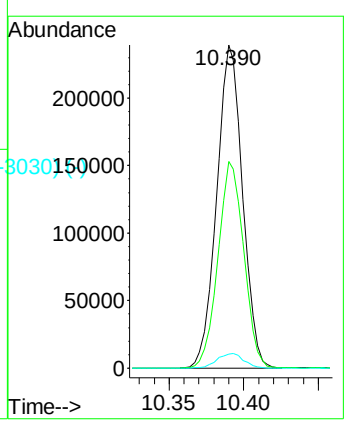




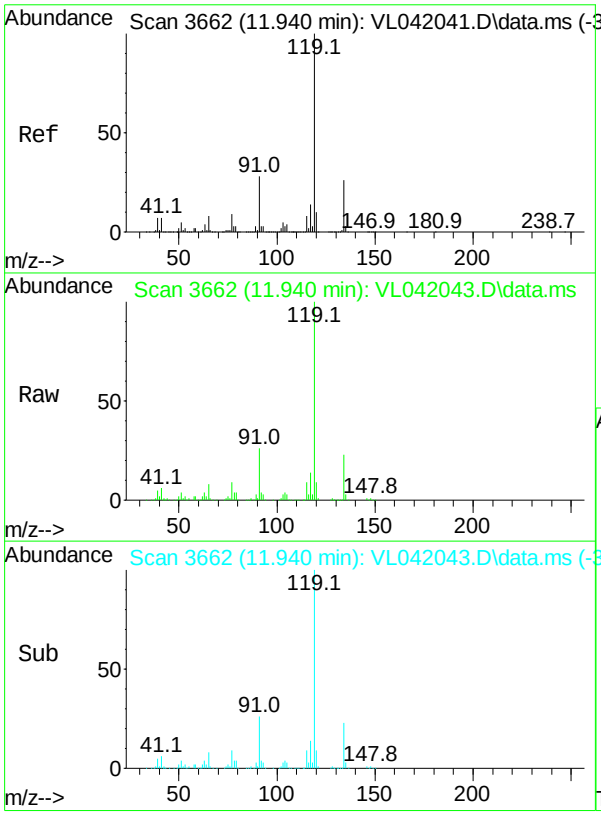
#68
1-Bromo-4-Fluorobenzene
Concen: 9.420 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 95 Resp: 287450

Ion	Ratio	Lower	Upper
95	100		
174	63.9	51.8	77.6
175	4.7	3.9	5.9



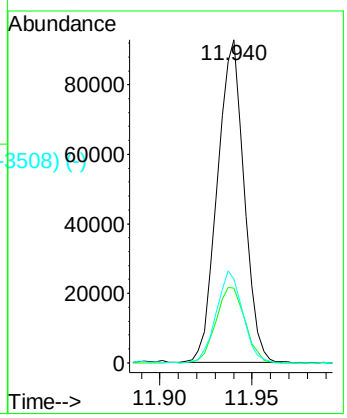
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



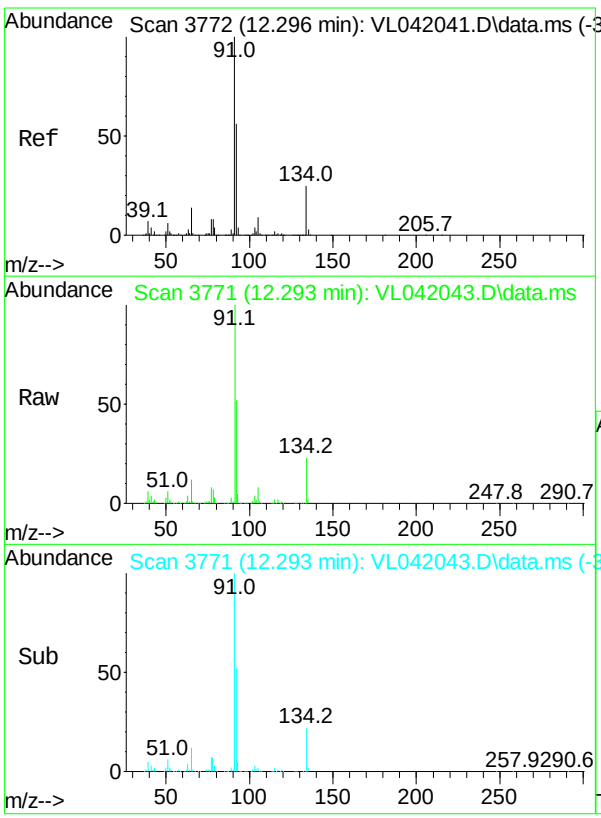
#69
p-Isopropyltoluene
Concen: 0.966 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:119 Resp: 93710

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.9	31.3
91	28.2	23.1	34.7



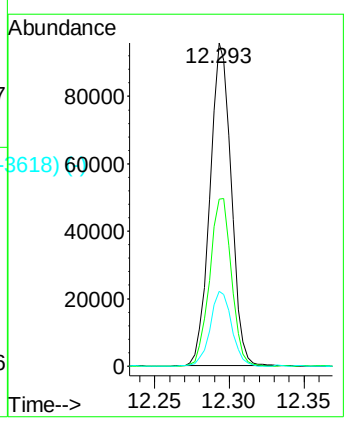
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

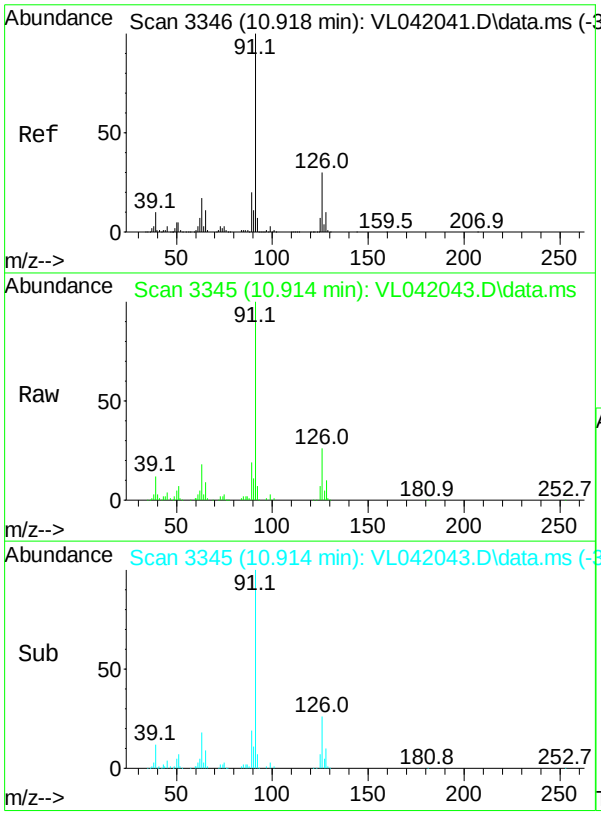


#70
n-Butylbenzene
Concen: 0.993 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 94969

Ion	Ratio	Lower	Upper
91	100		
92	53.5	44.7	67.1
134	23.5	18.9	28.3

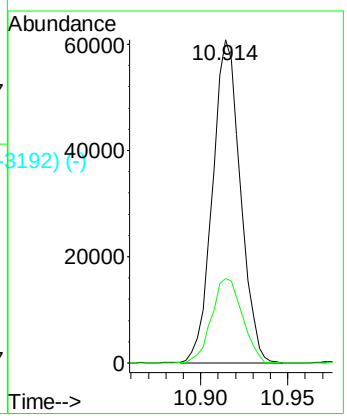




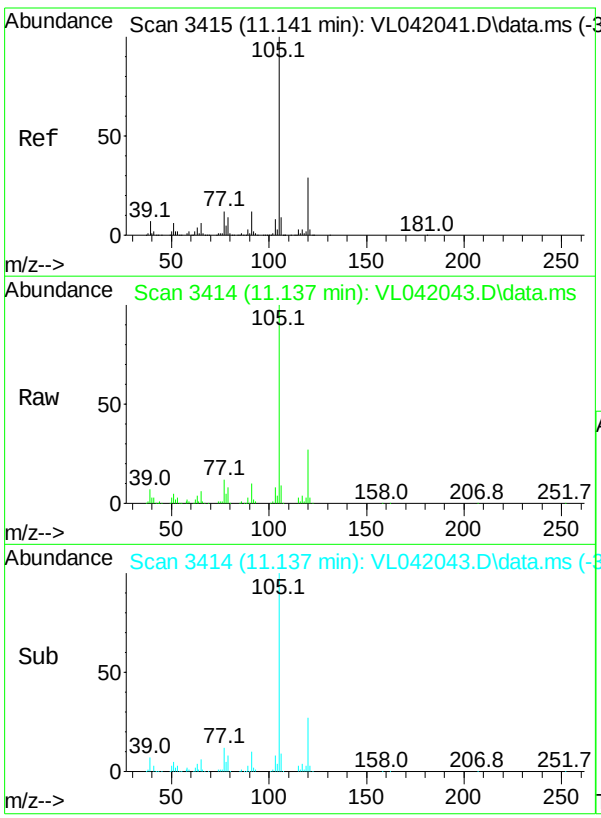
#71
2-Chlorotoluene
Concen: 0.928 ppbv
RT: 10.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion: 91 Resp: 67655

Ion	Ratio	Lower	Upper
91	100		
126	28.8	11.9	47.5



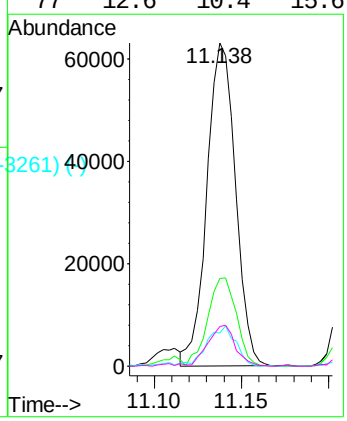
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

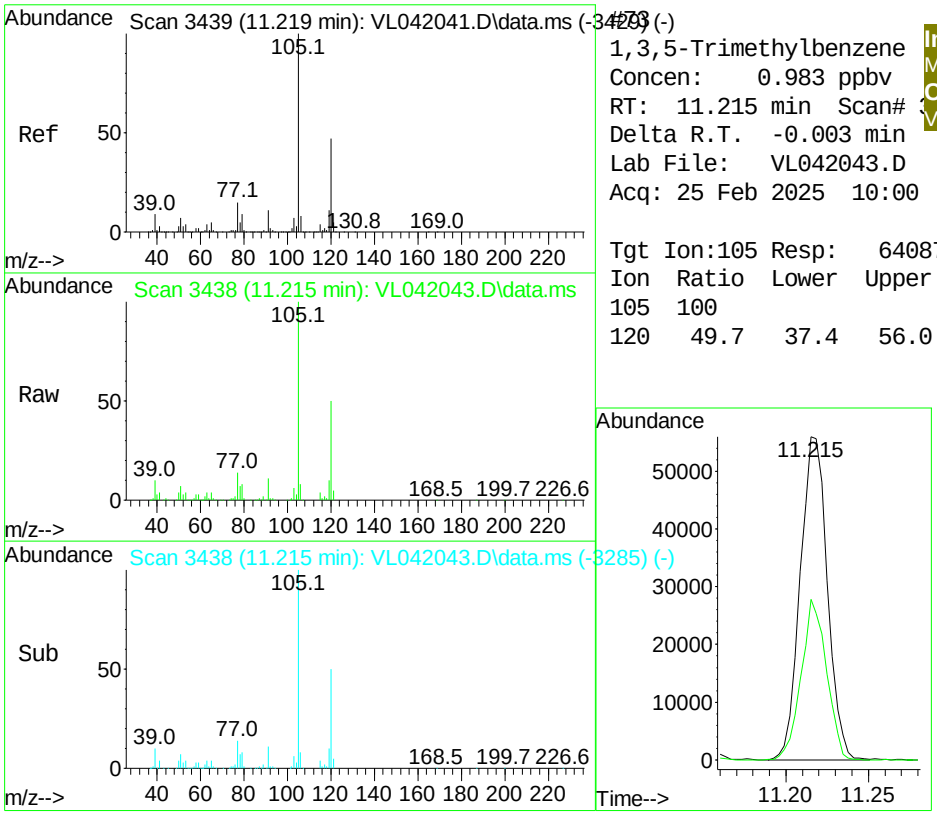


#72
4-Ethyltoluene
Concen: 0.952 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 71906

Ion	Ratio	Lower	Upper
105	100		
120	29.5	24.1	36.1
91	13.5	10.2	15.4
77	12.6	10.4	15.6



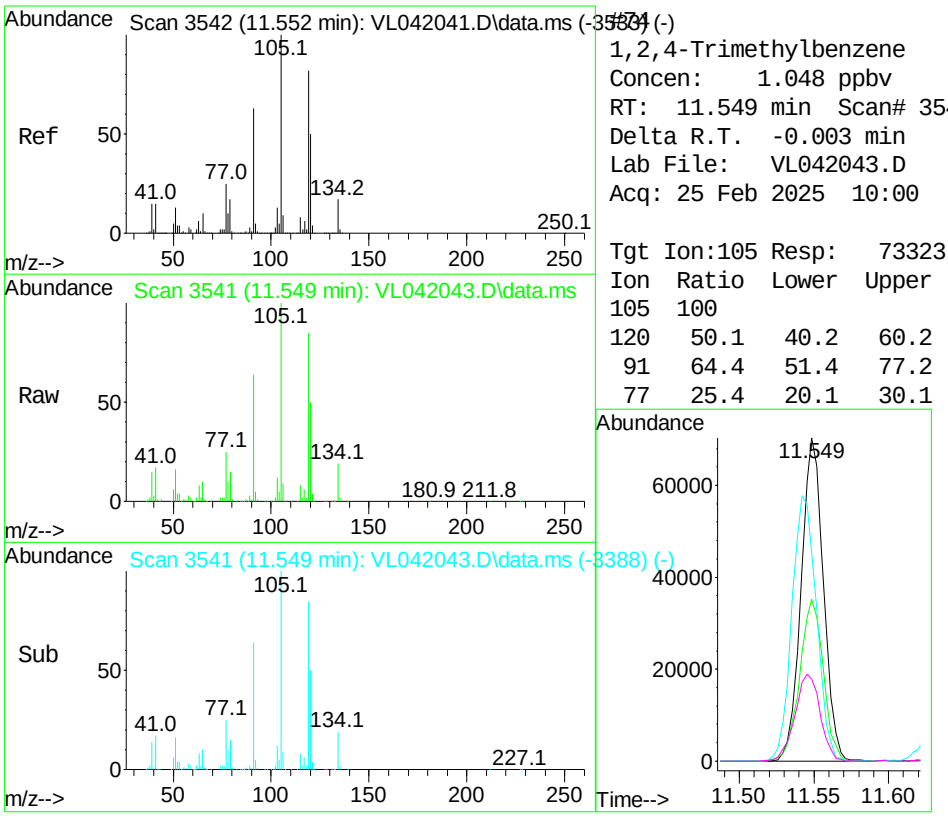


#73
1,3,5-Trimethylbenzene
Concen: 0.983 ppbv
RT: 11.215 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 64087

Ion	Ratio	Lower	Upper
105	100		
120	49.7	37.4	56.0

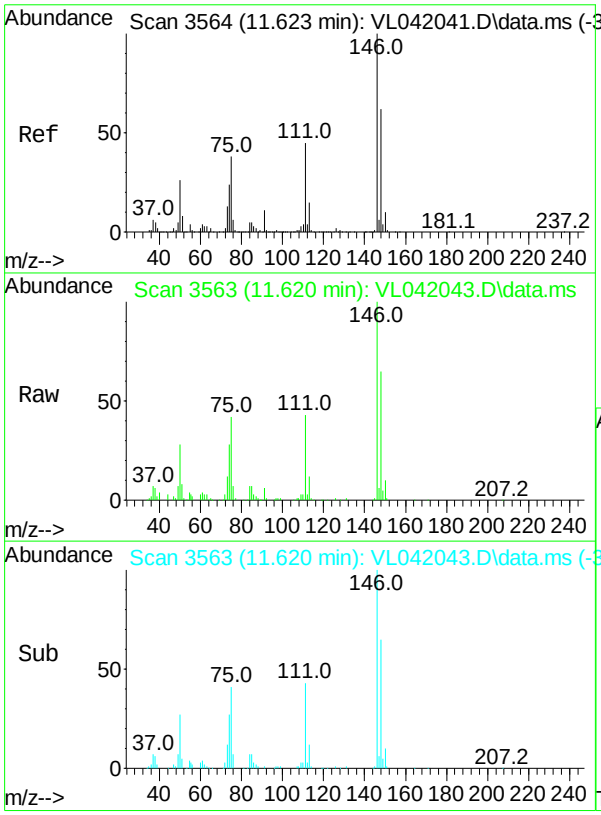
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



#74
1,2,4-Trimethylbenzene
Concen: 1.048 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:105 Resp: 73323

Ion	Ratio	Lower	Upper
105	100		
120	50.1	40.2	60.2
91	64.4	51.4	77.2
77	25.4	20.1	30.1

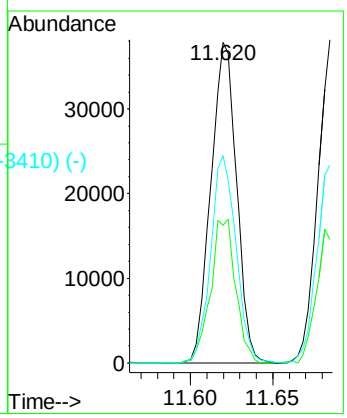


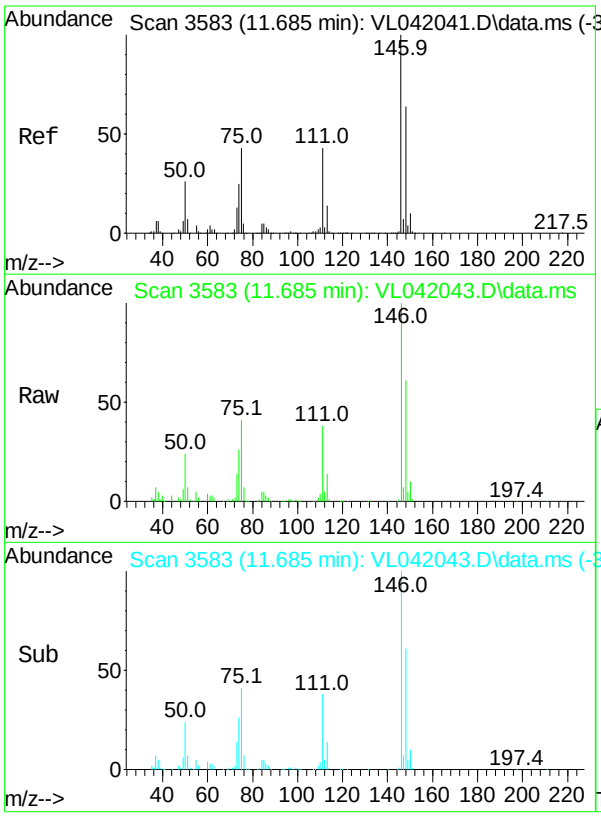
#75

1,3-Dichlorobenzene
Concen: 1.091 ppbv
RT: 11.620 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:146 Resp: 41063

Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.4	67.2
148	63.9	32.3	96.8



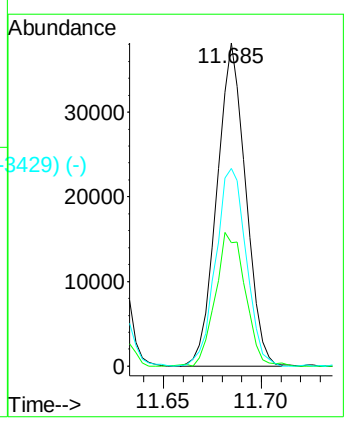


#76

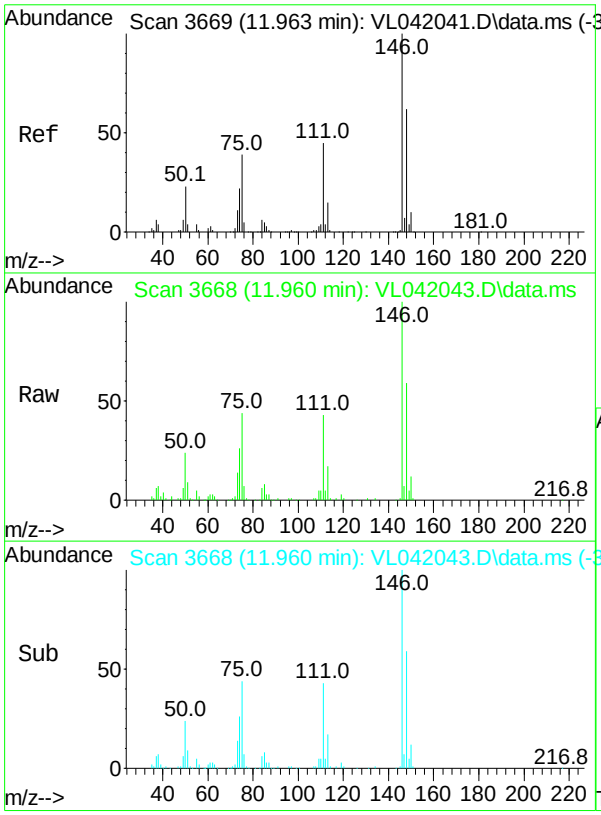
1,4-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:146 Resp: 39235

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.5	64.5
148	65.0	31.6	95.0



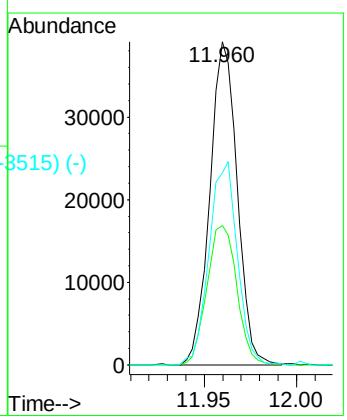
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



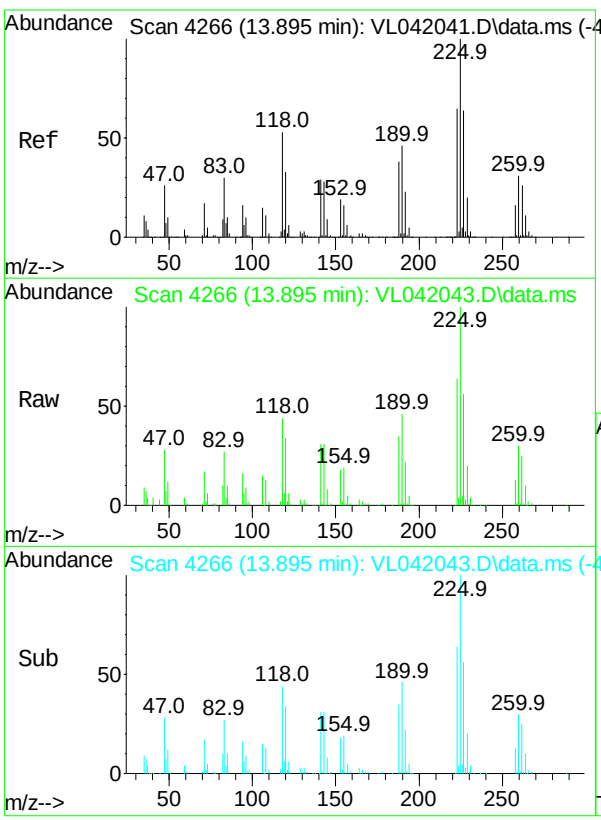
#57
1,2-Dichlorobenzene
Concen: 1.127 ppbv
RT: 11.960 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:146 Resp: 40574

Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.2	69.6
148	65.4	31.4	94.2



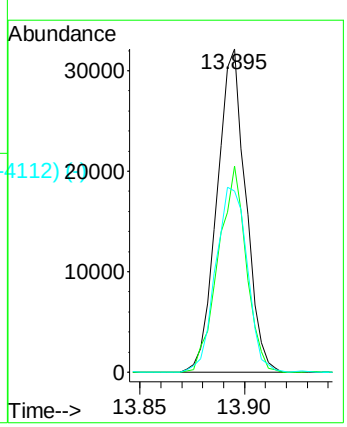
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

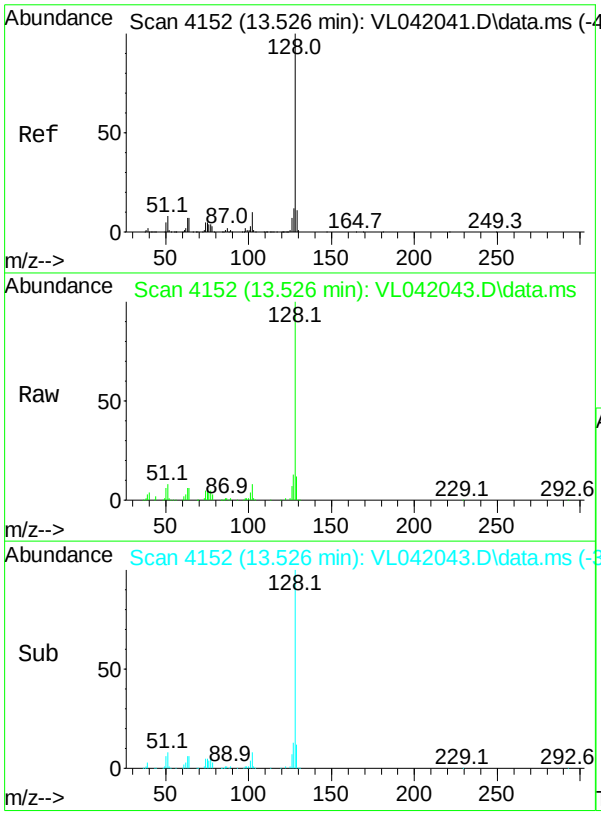


#58
Hexachloro-1,3-Butadiene
Concen: 1.033 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:225 Resp: 30764

Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.2	75.2
227	63.2	50.8	76.2

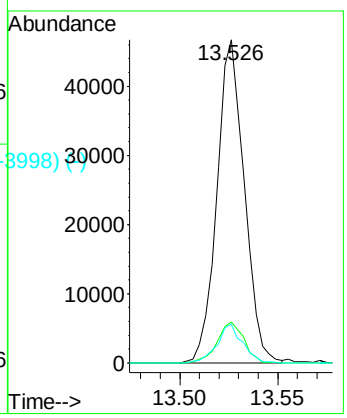




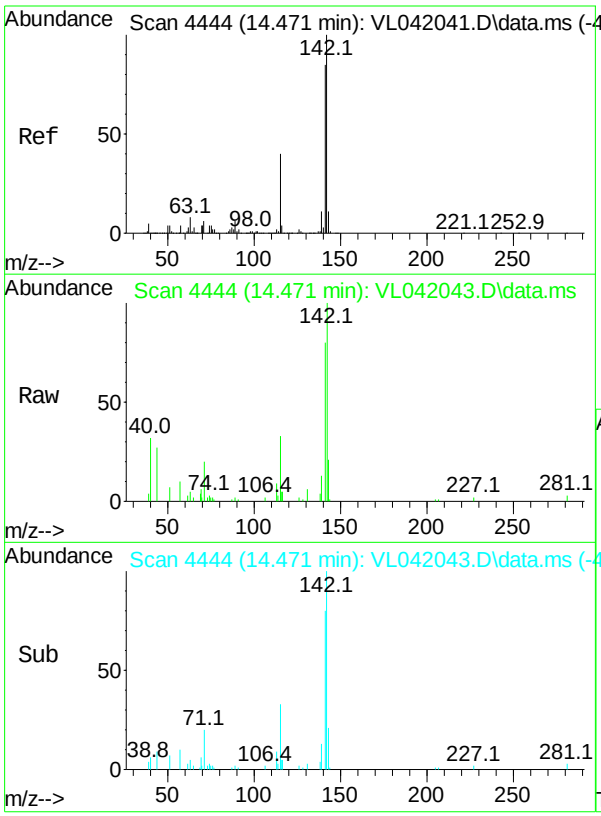
#79
Naphthalene
Concen: 0.665 ppbv
RT: 13.526 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:128 Resp: 45743

Ion	Ratio	Lower	Upper
128	100		
127	12.7	9.8	14.6
129	12.0	8.6	12.8



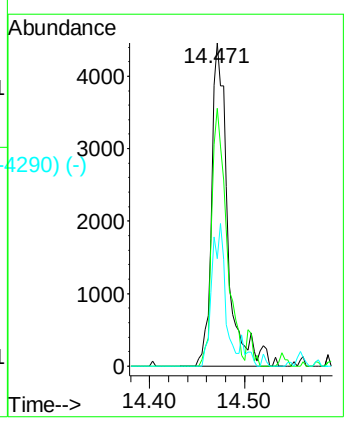
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

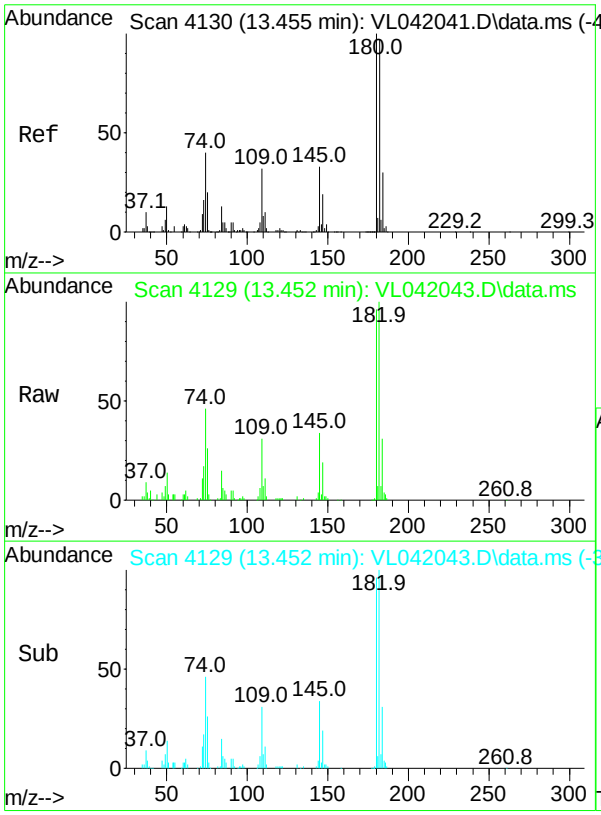


#80
Naphthalene,2-methyl-
Concen: 0.168 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. -0.000 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:142 Resp: 5244

Ion	Ratio	Lower	Upper
142	100		
141	77.7	65.8	98.6
115	41.6	29.5	44.3

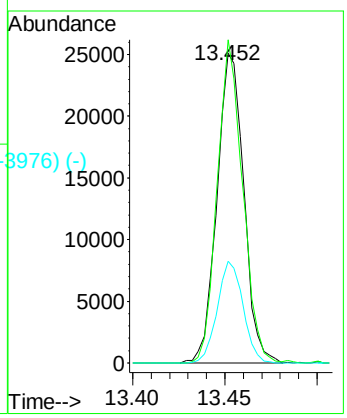




#81
1,2,4-Trichlorobenzene
Concen: 0.908 ppbv
RT: 13.452 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042043.D
Acq: 25 Feb 2025 10:00

Tgt Ion:180 Resp: 25404

Ion	Ratio	Lower	Upper
180	100		
182	98.8	75.1	112.7
184	31.4	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	159644	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.975	114	421340	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	365954	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	281042	9.310	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 93.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8852	0.322	ppbv		98
3) Chlorodifluoromethane	1.479	51	11921	0.392	ppbv		94
4) Chloromethane	1.537	50	3497	0.327	ppbv	#	88
5) Vinyl Chloride	1.583	62	3005	0.235	ppbv		98
6) Bromomethane	1.673	94	1359	0.275	ppbv		92
7) Chloroethane	1.709	64	1205	0.290	ppbv		89
8) Dichlorotetrafluoroethane	1.557	85	7123	0.295	ppbv		99
9) Propene	1.486	41	4904	0.374	ppbv		94
10) Heptane	5.004	43	15731	0.432	ppbv		98
11) Trichlorofluoromethane	1.884	101	8429	0.305	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.146	101	7336	0.340	ppbv		98
13) Ethanol	1.725	45	426	0.288	ppbv		75
14) Bromoethene	1.787	108	2598	0.323	ppbv	#	89
15) Acetone	1.842	43	8655	0.328	ppbv		96
16) 1,3-Butadiene	1.615	39	3803	0.304	ppbv		97
17) tert-Butyl alcohol	2.049	59	9447	0.290	ppbv	#	90
18) 1,1-Dichloroethene	2.039	96	3173	0.308	ppbv		94
19) Isopropyl Alcohol	1.894	45	4481	0.303	ppbv	#	32
20) Methylene Chloride	2.068	84	3423	0.345	ppbv		97
21) Allyl Chloride	2.104	41	5640	0.296	ppbv		100
22) trans-1,2-Dichloroethene	2.039	96	3173	0.284	ppbv		92
23) Vinyl Acetate	2.473	43	5499	0.385	ppbv	#	86
24) 1,1-Dichloroethane	2.418	63	7396	0.326	ppbv	#	88
25) Ethyl Acetate	2.848	43	30593	0.423	ppbv		98
26) Hexane	2.832	57	12739	0.439	ppbv		98
27) Carbon Disulfide	2.159	76	8316	0.305	ppbv	#	15
28) Methyl tert-Butyl Ether	2.450	73	5185	0.292	ppbv	#	80
29) Chloroform	2.858	83	17278	0.411	ppbv		93
30) Cyclohexane	3.874	84	9209	0.391	ppbv		88
31) cis-1,2-Dichloroethene	2.729	61	11344	0.395	ppbv		97
32) 1,1,1-Trichloroethane	3.382	97	15027	0.322	ppbv		93
34) 2-Butanone	2.570	43	17555	0.484	ppbv		99
35) Carbon Tetrachloride	3.780	117	14223	0.348	ppbv		90
36) Benzene	3.670	78	22728	0.445	ppbv		95
37) 1,2-Dichloroethane	3.230	62	13141	0.452	ppbv		100
38) Trichloroethene	4.570	130	9115	0.440	ppbv	#	87
39) 1,2-Dichloropropane	4.331	63	8723	0.466	ppbv		91
40) 1,4-Dioxane	4.622	88	3478	0.357	ppbv	#	33
41) Tetrahydrofuran	3.078	42	9880	0.477	ppbv		98
42) Bromodichloromethane	4.505	83	16973	0.431	ppbv	#	96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

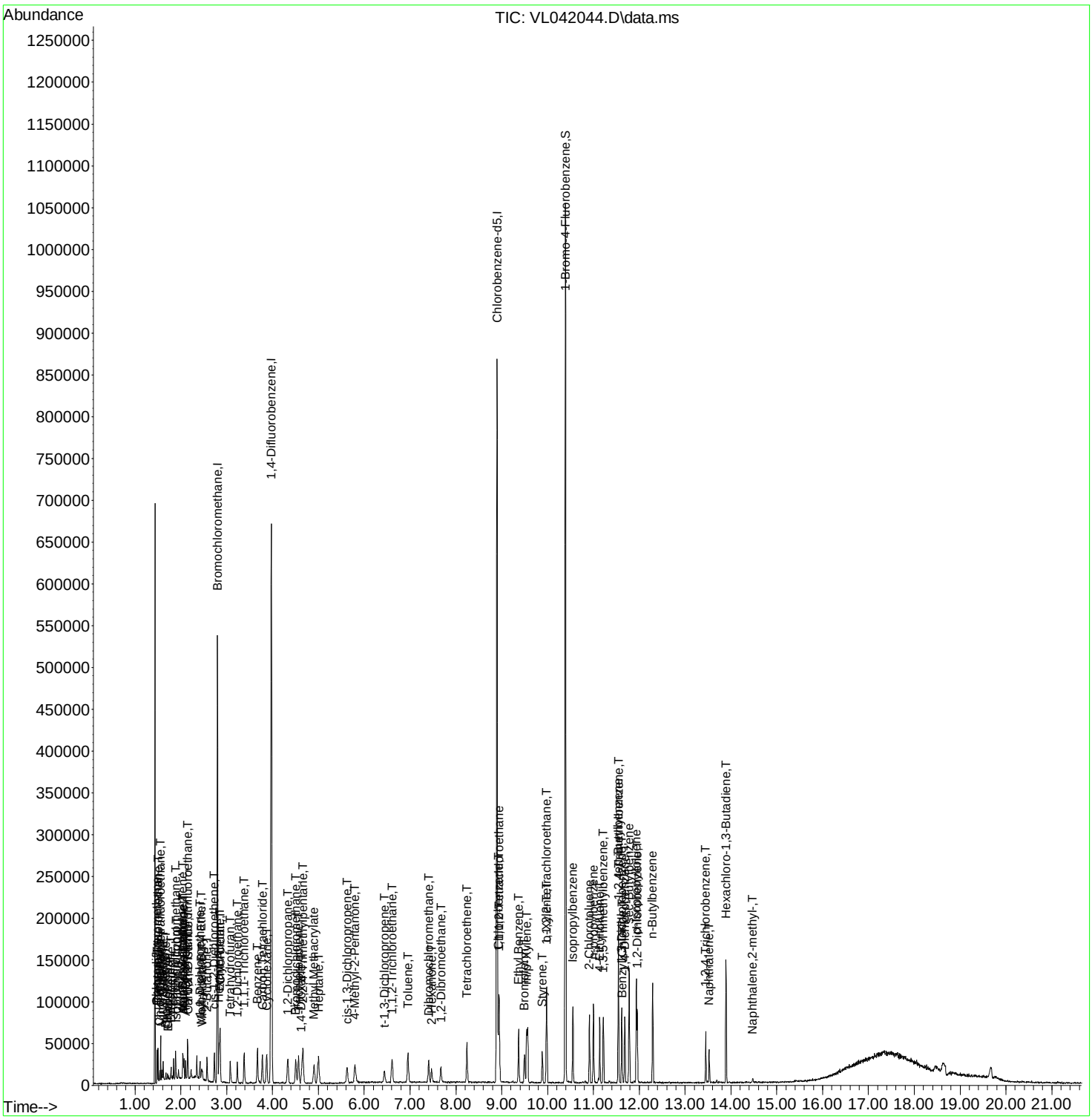
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Methyl Methacrylate	4.904	69	8428	0.362	ppbv		93
44) 2,2,4-Trimethylpentane	4.661	57	40623	0.469	ppbv		98
45) t-1,3-Dichloropropene	6.441	75	8004	0.364	ppbv		90
46) cis-1,3-Dichloropropene	5.629	75	4036	0.145	ppbv		89
47) 1,1,2-Trichloroethane	6.609	97	5914	0.300	ppbv	#	82
48) Dibromochloromethane	7.406	129	12677	0.384	ppbv		99
49) Bromoform	9.496	173	11640	0.430	ppbv		98
50) 4-Methyl-2-Pentanone	5.794	43	11029	0.198	ppbv	#	38
51) 2-Hexanone	7.470	43	11717	0.257	ppbv	#	95
52) Tetrachloroethene	8.241	164	8012	0.450	ppbv		95
53) Toluene	6.956	91	24224	0.398	ppbv		96
54) 1,2-Dibromoethane	7.674	107	5550	0.205	ppbv		85
56) 1,1,1,2-Tetrachloroethane	8.940	131	11100	0.424	ppbv	#	61
57) Chlorobenzene	8.936	112	20167	0.468	ppbv		97
58) Ethyl Benzene	9.370	91	34506	0.431	ppbv		90
59) m/p-Xylene	9.545	91	28109	0.446	ppbv	#	100
60) o-Xylene	9.979	91	28757	0.451	ppbv		95
61) Styrene	9.885	104	12051	0.396	ppbv		99
62) Isopropylbenzene	10.552	105	42074	0.439	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.975	83	18774	0.456	ppbv		96
64) n-propylbenzene	11.001	120	10900	0.463	ppbv		100
65) tert-Butylbenzene	11.542	119	38066	0.456	ppbv		98
66) Benzyl Chloride	11.626	91	2589	0.309	ppbv	#	96
67) sec-Butylbenzene	11.778	105	54394	0.464	ppbv		97
69) p-Isopropyltoluene	11.937	119	40978	0.427	ppbv		95
70) n-Butylbenzene	12.293	91	42673	0.451	ppbv		99
71) 2-Chlorotoluene	10.914	91	32161	0.446	ppbv		99
72) 4-Ethyltoluene	11.137	105	32477	0.434	ppbv	#	95
73) 1,3,5-Trimethylbenzene	11.215	105	29130	0.452	ppbv		91
74) 1,2,4-Trimethylbenzene	11.548	105	33950	0.491	ppbv		97
75) 1,3-Dichlorobenzene	11.616	146	20339	0.546	ppbv		96
76) 1,4-Dichlorobenzene	11.684	146	20492	0.564	ppbv		93
77) 1,2-Dichlorobenzene	11.959	146	19373	0.544	ppbv		96
78) Hexachloro-1,3-Butadiene	13.892	225	15367	0.522	ppbv		99
79) Naphthalene	13.523	128	17897	0.263	ppbv	#	95
80) Naphthalene,2-methyl-	14.478	142	1646	0.053	ppbv	#	81
81) 1,2,4-Trichlorobenzene	13.452	180	10771	0.389	ppbv		94

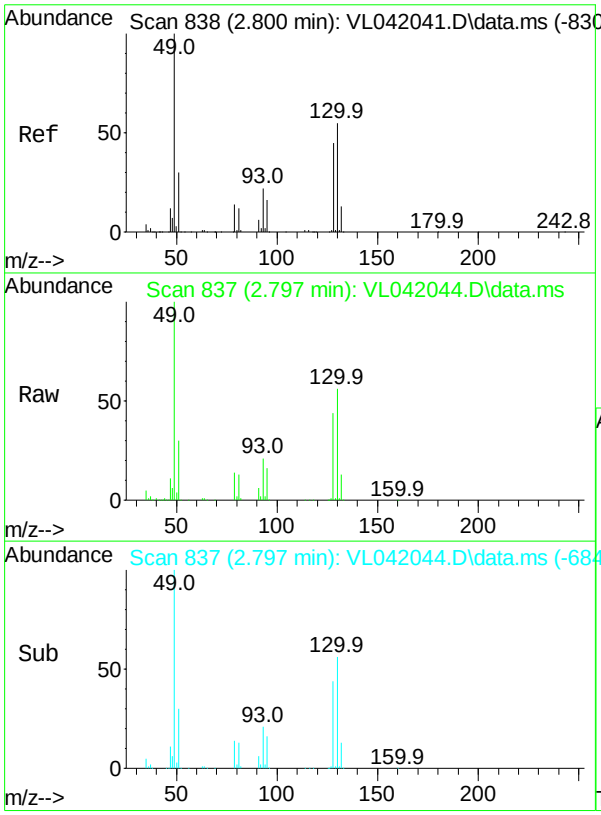
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



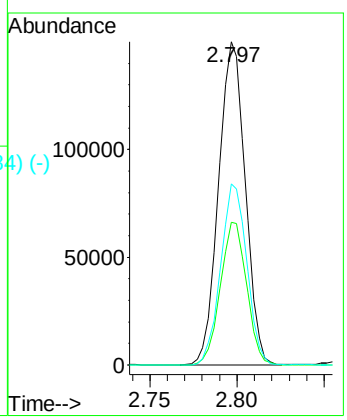


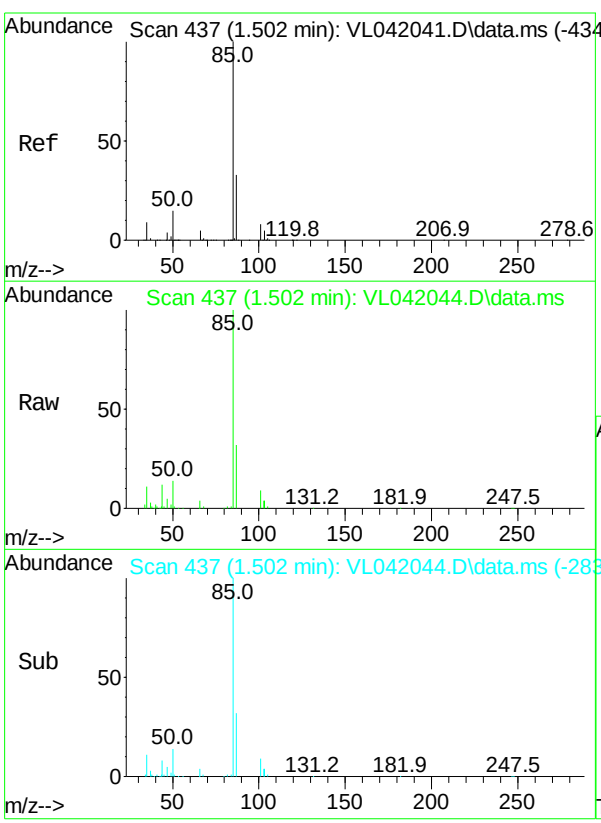
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 49 Resp: 159644

Ion	Ratio	Lower	Upper
49	100		
128	43.5	21.6	64.8
130	55.1	27.8	83.4

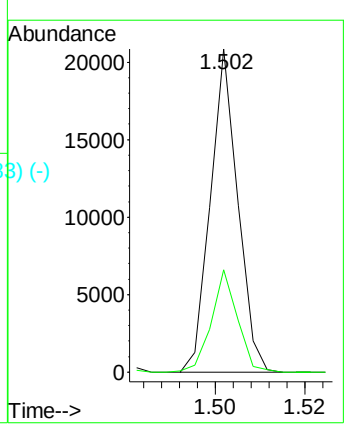


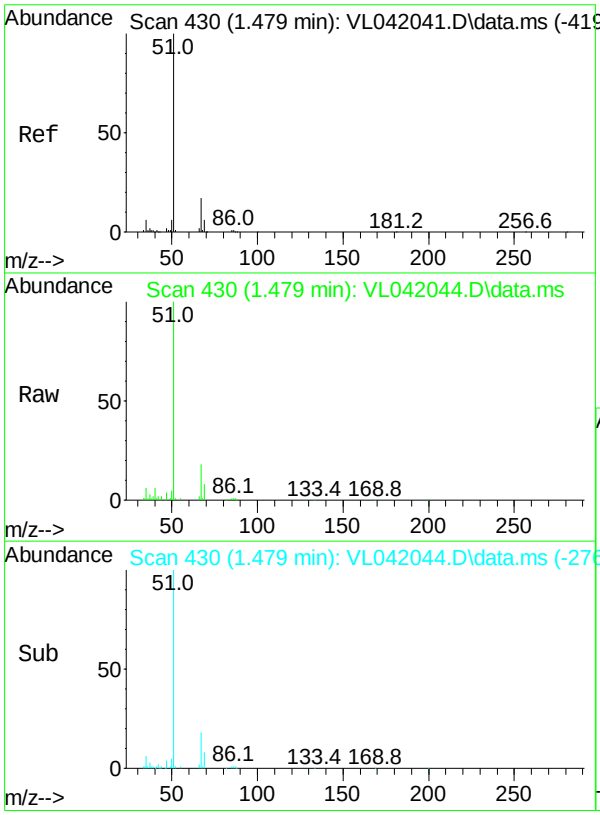


#2
Dichlorodifluoromethane
Concen: 0.322 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 85 Resp: 8852

Ion	Ratio	Lower	Upper
85	100		
87	31.7	26.4	39.6



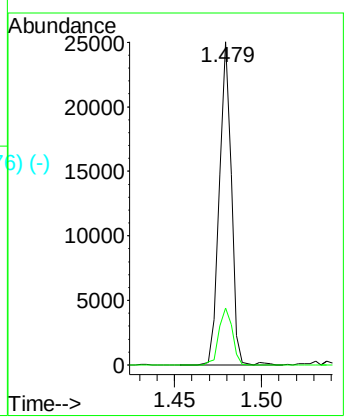


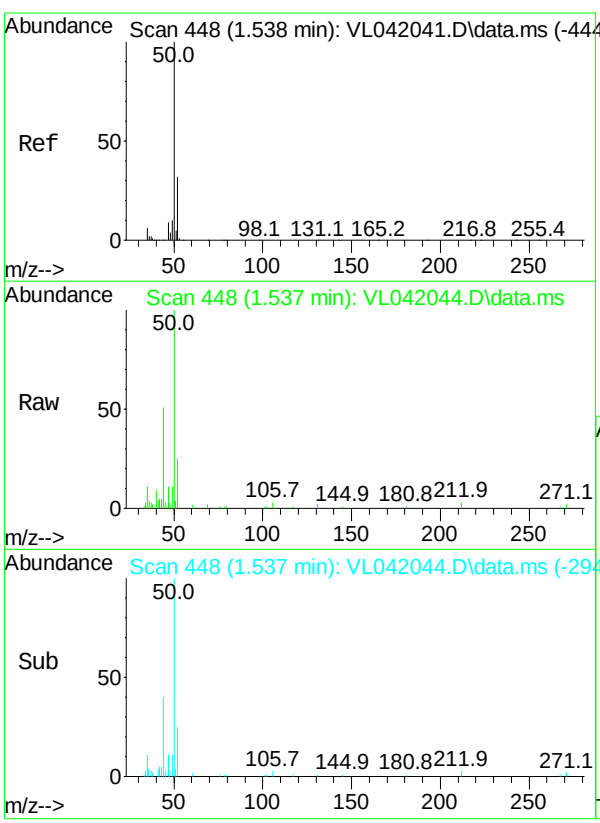
#3
Chlorodifluoromethane
Concen: 0.392 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 11921

Ion	Ratio	Lower	Upper
51	100		
67	19.6	13.7	20.5

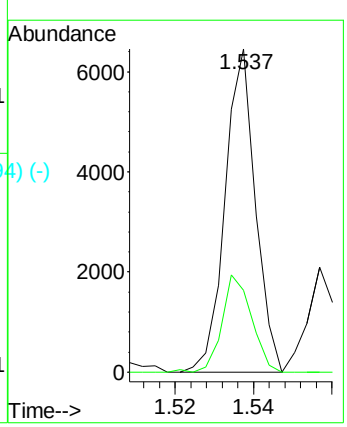


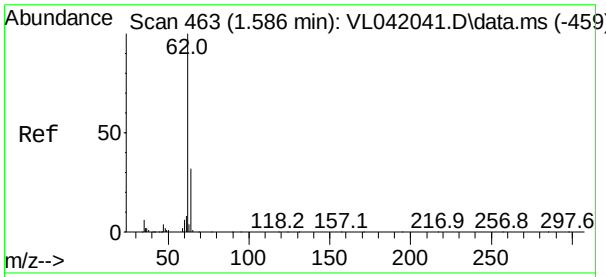


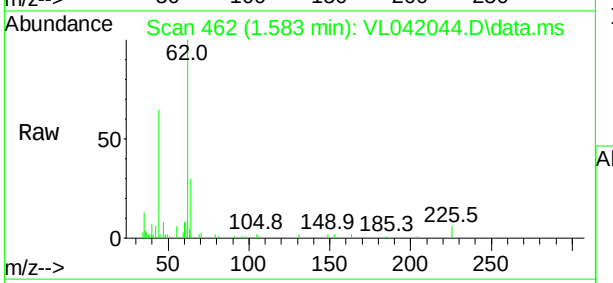
#4
Chloromethane
Concen: 0.327 ppbv
RT: 1.537 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

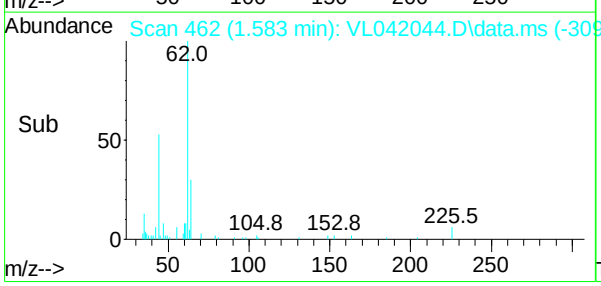
Tgt Ion: 50 Resp: 3497

Ion	Ratio	Lower	Upper
50	100		
52	25.3	25.4	38.0#





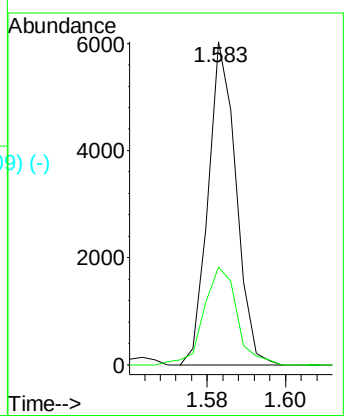


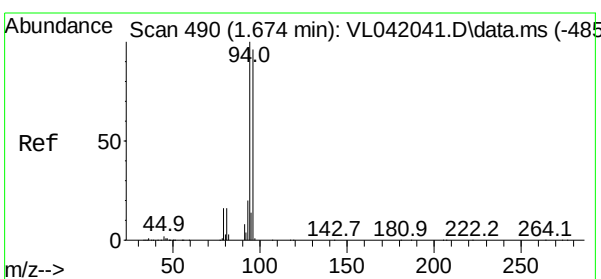


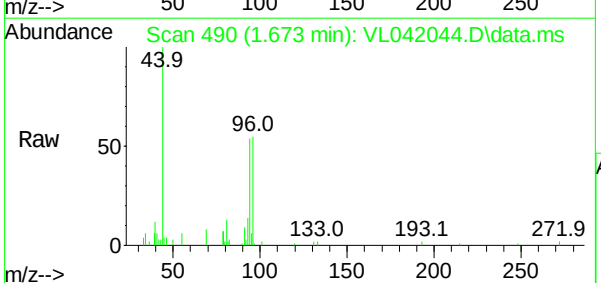
#5
Vinyl Chloride
Concen: 0.235 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

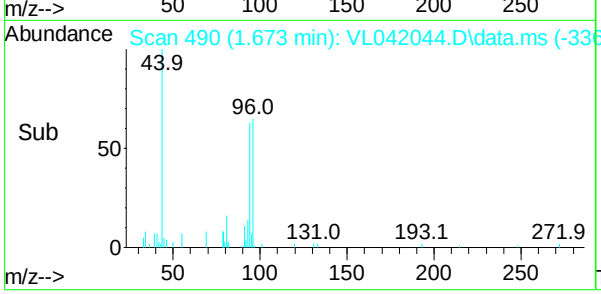
Tgt Ion: 62 Resp: 3005

Ion	Ratio	Lower	Upper
62	100		
64	30.3	25.3	37.9





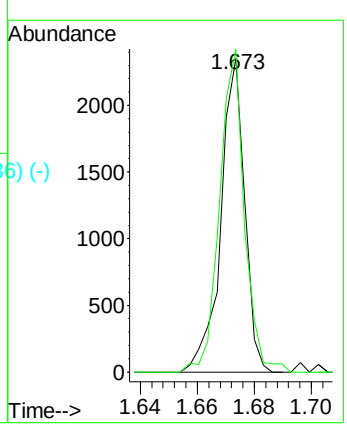




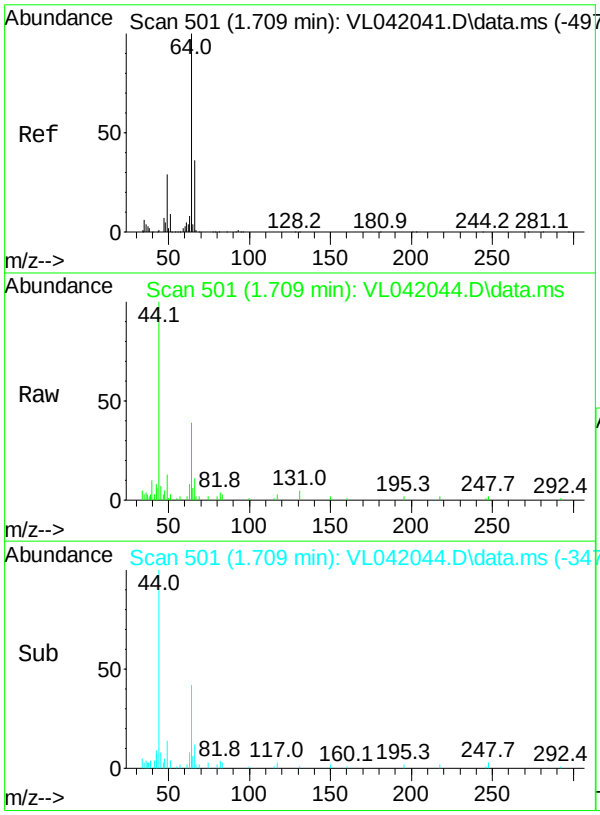
#6
Bromomethane
Concen: 0.275 ppbv
RT: 1.673 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 94 Resp: 1359

Ion	Ratio	Lower	Upper
94	100		
96	103.2	76.5	114.7



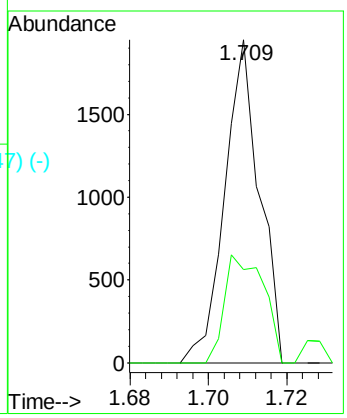
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

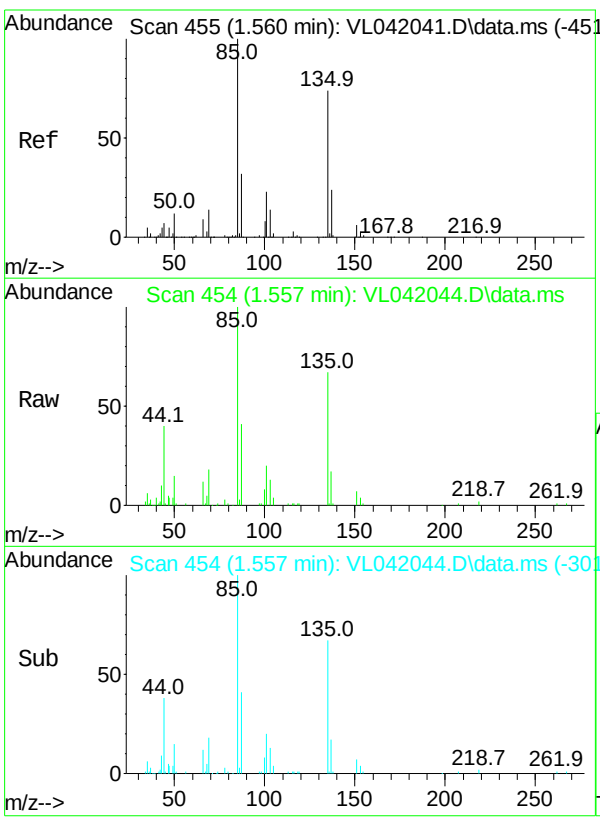


#7
Chloroethane
Concen: 0.290 ppbv
RT: 1.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 64 Resp: 1205

Ion	Ratio	Lower	Upper
64	100		
66	28.9	28.4	42.6

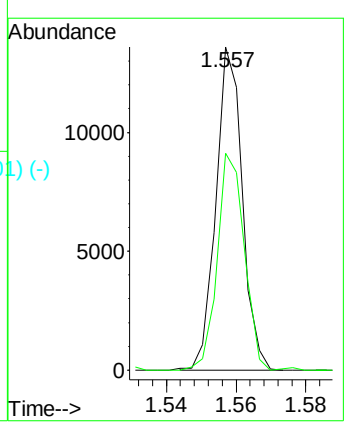




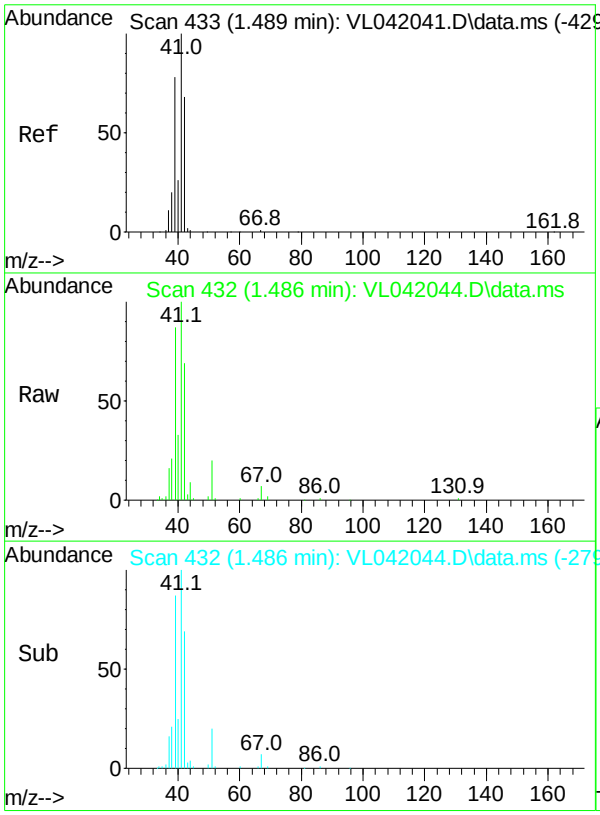
#8
Dichlorotetrafluoroethane
Concen: 0.295 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 85 Resp: 7123

Ion	Ratio	Lower	Upper
85	100		
135	69.0	54.6	81.8



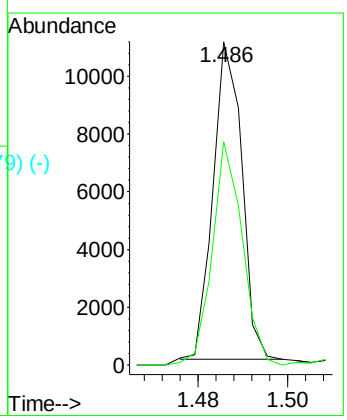
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



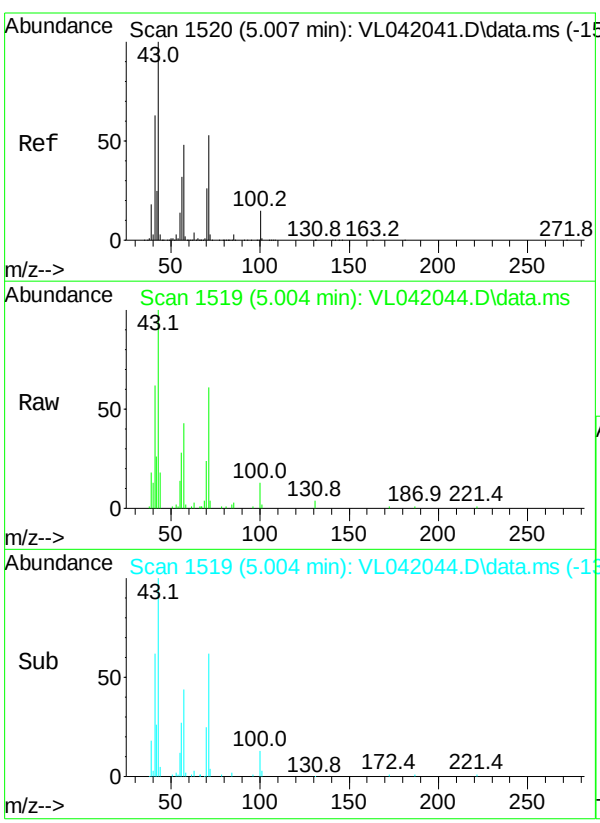
#9
Propene
Concen: 0.374 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 41 Resp: 4904

Ion	Ratio	Lower	Upper
41	100		
42	74.6	55.8	83.6



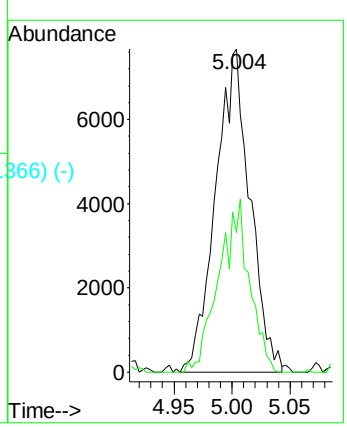
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

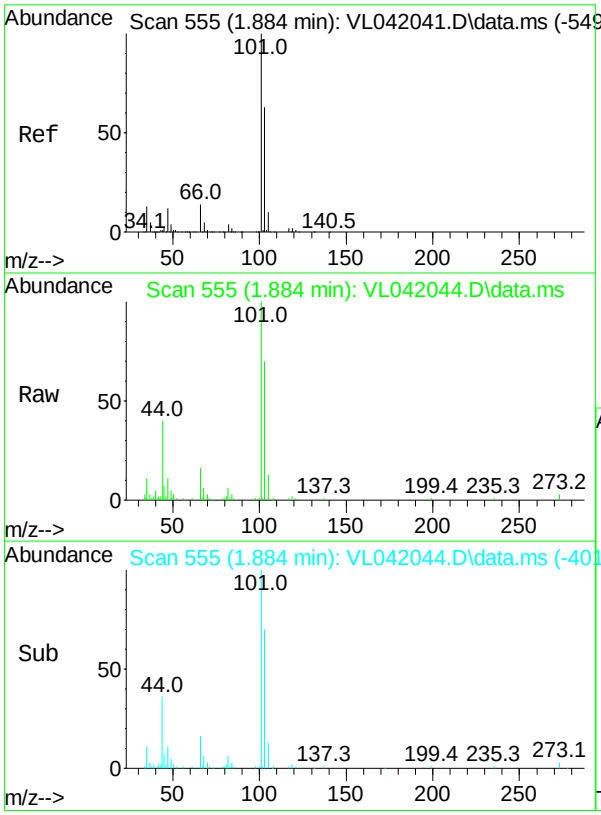


#10
Heptane
Concen: 0.432 ppbv
RT: 5.004 min Scan# 1519
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 15731

Ion	Ratio	Lower	Upper
43	100		
57	47.7	39.4	59.0



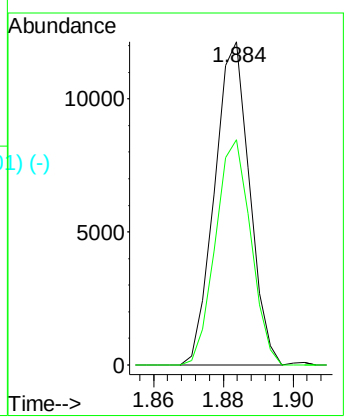


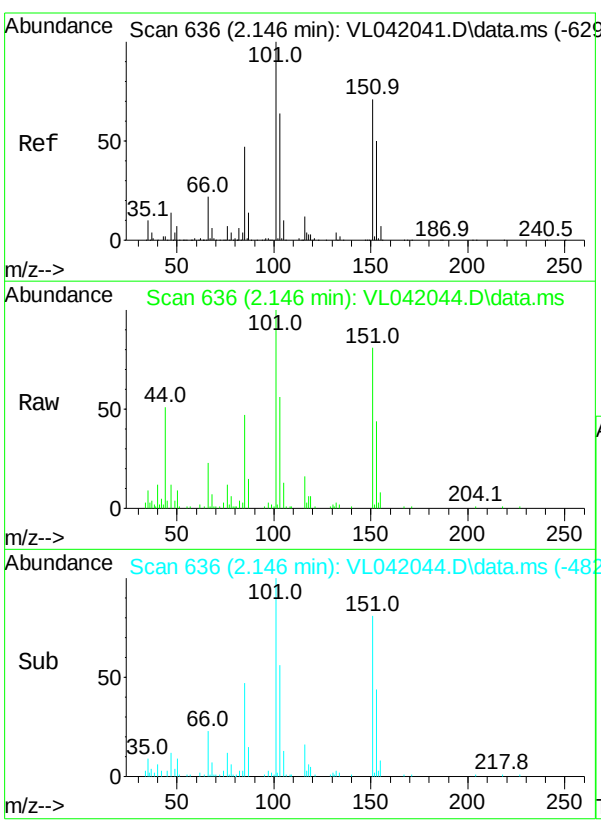
#11
Trichlorofluoromethane
Concen: 0.305 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:101 Resp: 8429

Ion	Ratio	Lower	Upper
101	100		
103	69.6	50.6	75.8

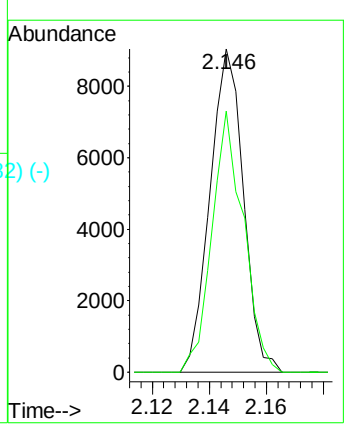


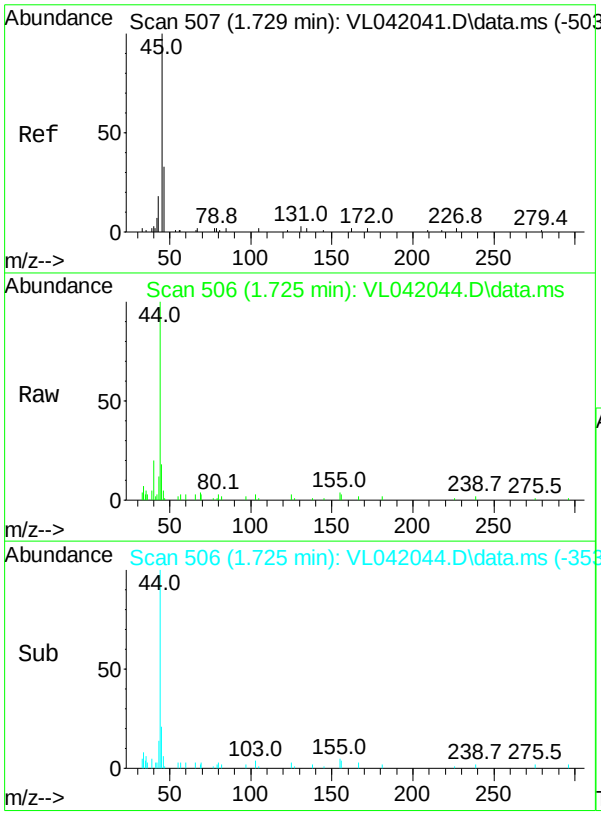


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.340 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:101 Resp: 7336

Ion	Ratio	Lower	Upper
101	100		
151	76.2	62.6	94.0

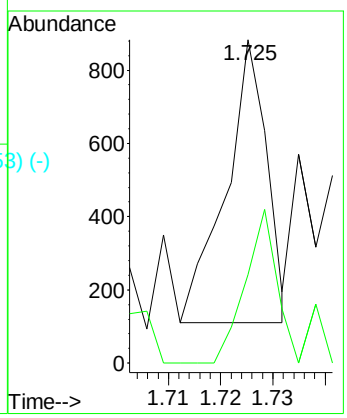




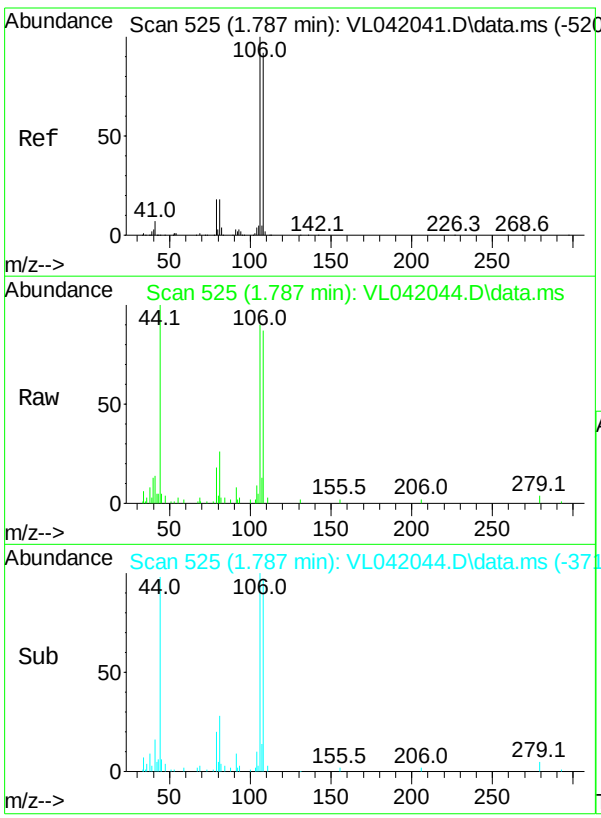
#13
Ethanol
Concen: 0.288 ppbv
RT: 1.725 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 45 Resp: 426

Ion	Ratio	Lower	Upper
45	100		
46	58.9	17.1	68.3



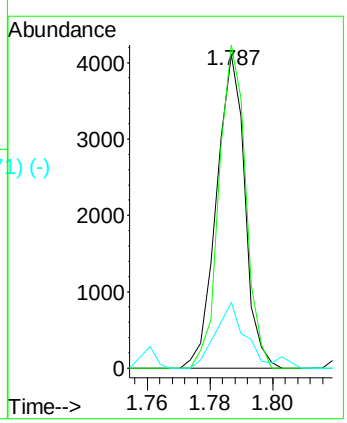
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



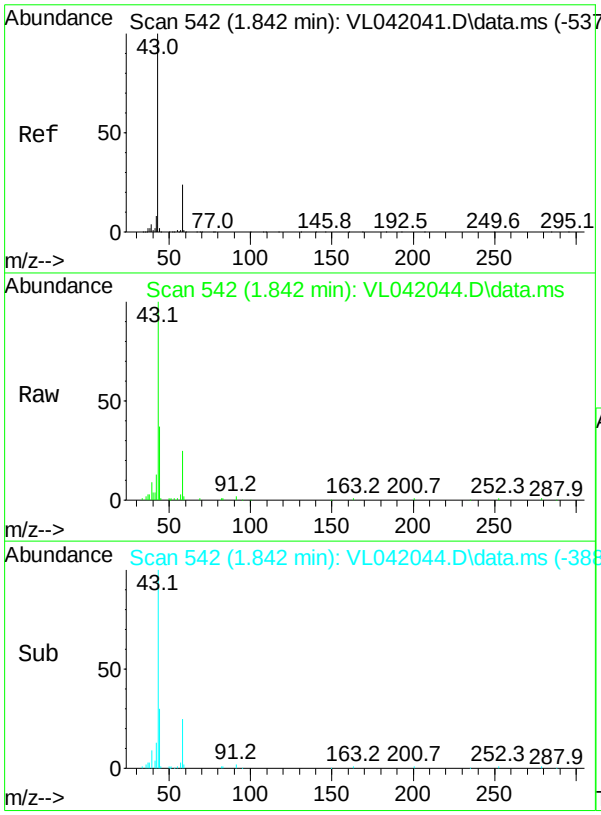
#14
Bromoethene
Concen: 0.323 ppbv
RT: 1.787 min Scan# 525
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:108 Resp: 2598

Ion	Ratio	Lower	Upper
108	100		
106	96.8	85.4	128.0
79	27.9	16.5	24.7#



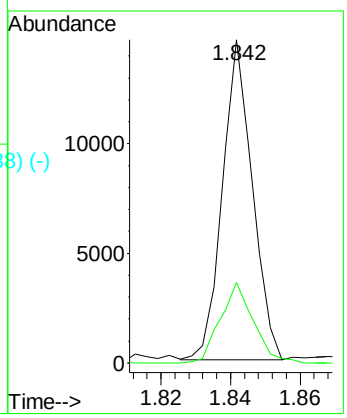
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

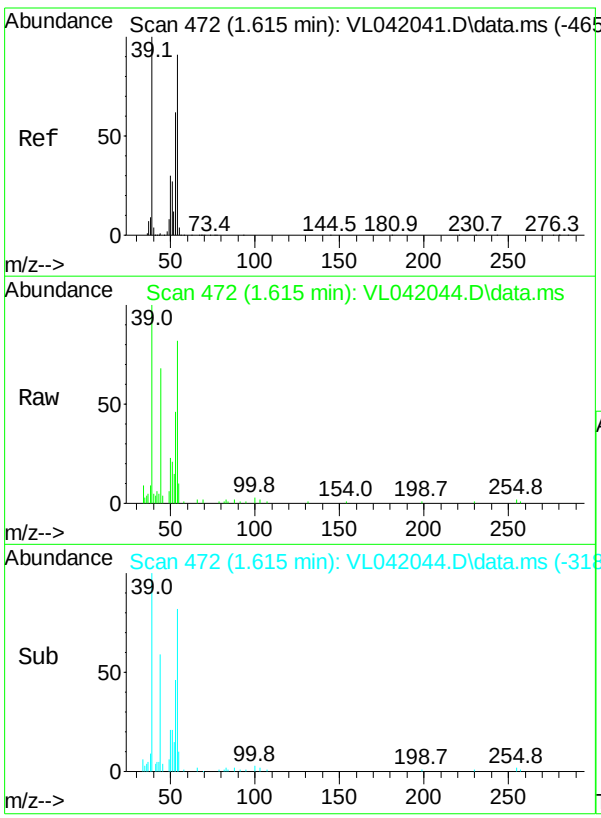


#15
Acetone
Concen: 0.328 ppbv
RT: 1.842 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 8655

Ion	Ratio	Lower	Upper
43	100		
58	27.9	20.7	31.1

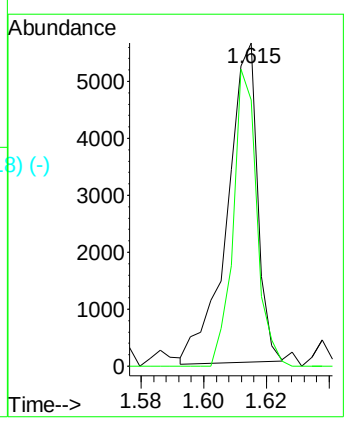


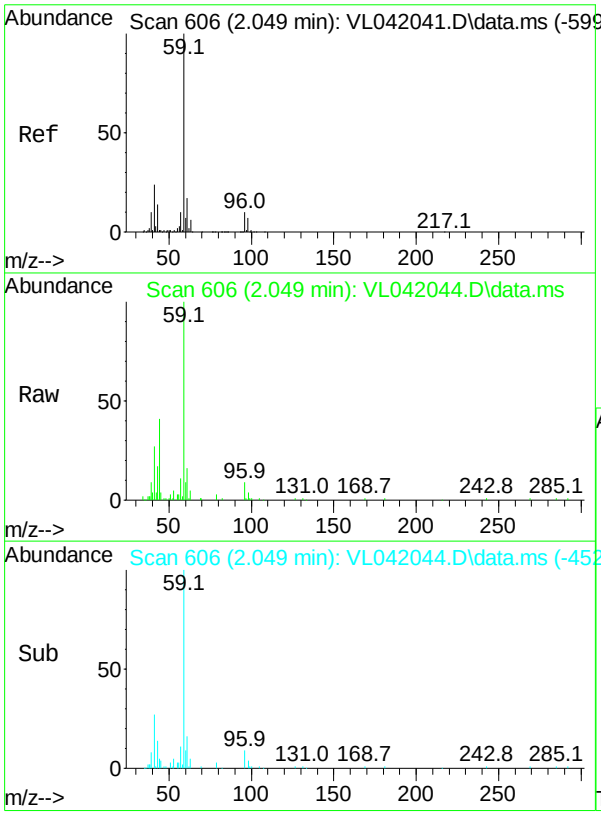


#16
1,3-Butadiene
Concen: 0.304 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 39 Resp: 3803

Ion	Ratio	Lower	Upper
39	100		
54	71.9	59.6	89.4

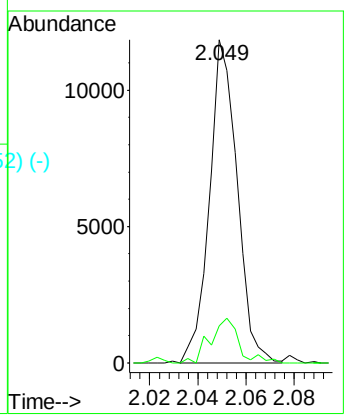


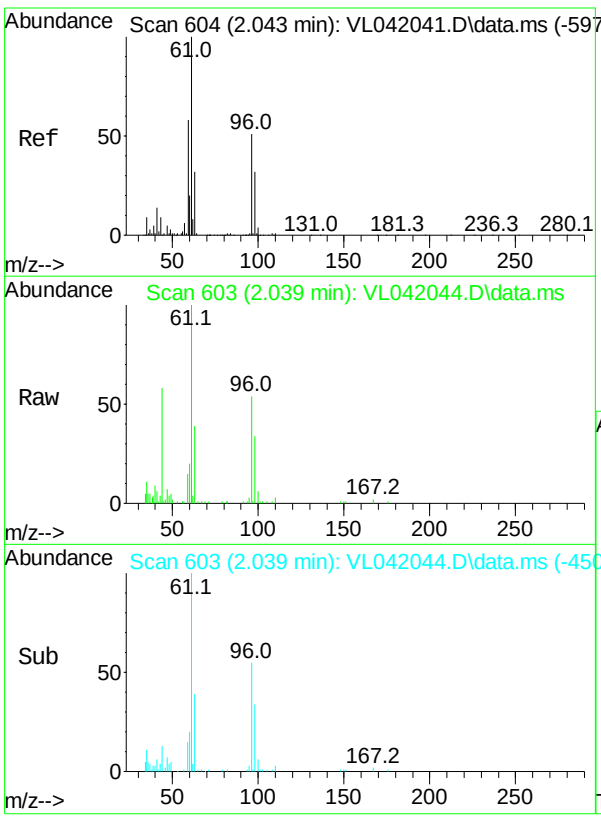


#17
tert-Butyl alcohol
Concen: 0.290 ppbv
RT: 2.049 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 59 Resp: 9447

Ion	Ratio	Lower	Upper
59	100		
57	15.3	9.3	13.9#

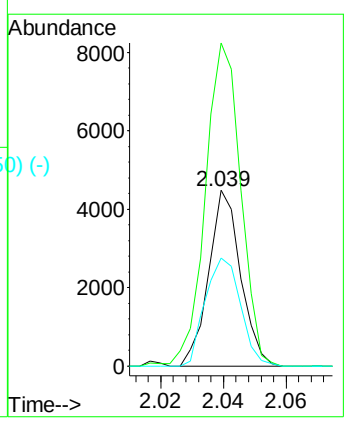




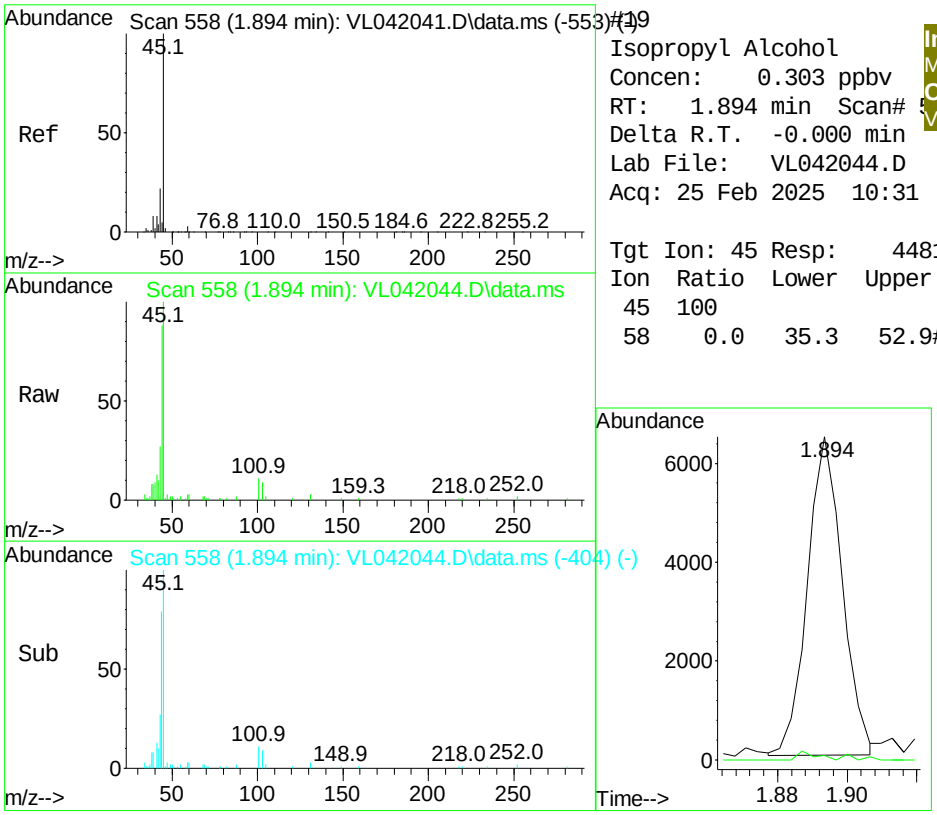
#18
1,1-Dichloroethene
Concen: 0.308 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 96 Resp: 3173

Ion	Ratio	Lower	Upper
96	100		
61	183.8	156.0	234.0
98	61.6	49.4	74.2



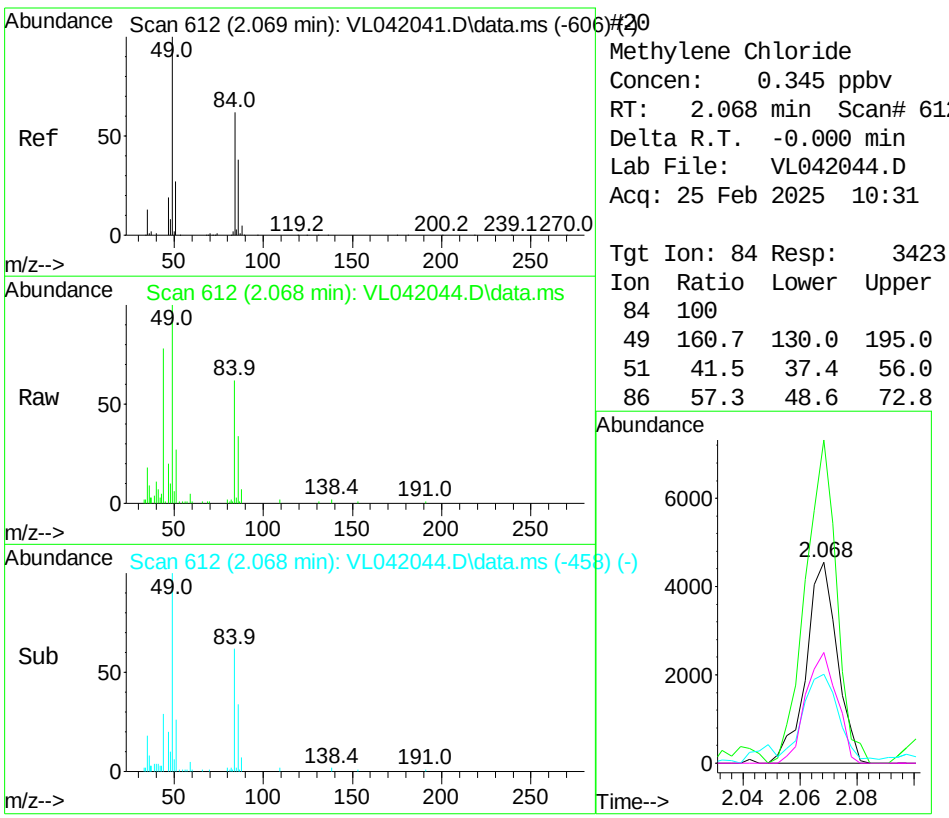
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



#19
Isopropyl Alcohol
Concen: 0.303 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 45 Resp: 4481

Ion	Ratio	Lower	Upper
45	100		
58	0.0	35.3	52.9#

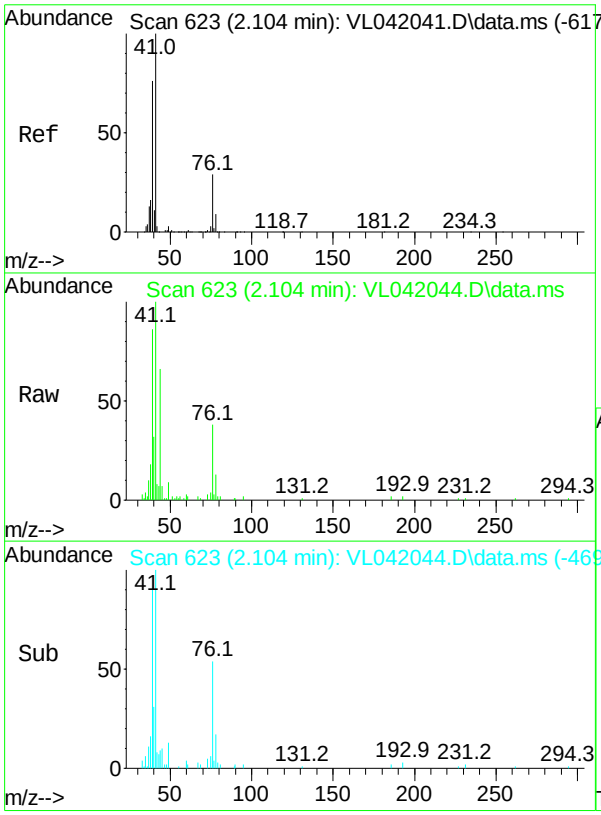


#20
Methylene Chloride
Concen: 0.345 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 84 Resp: 3423

Ion	Ratio	Lower	Upper
84	100		
49	160.7	130.0	195.0
51	41.5	37.4	56.0
86	57.3	48.6	72.8

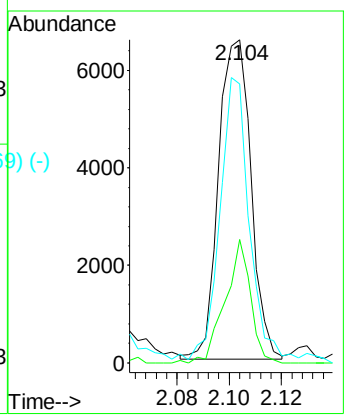
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

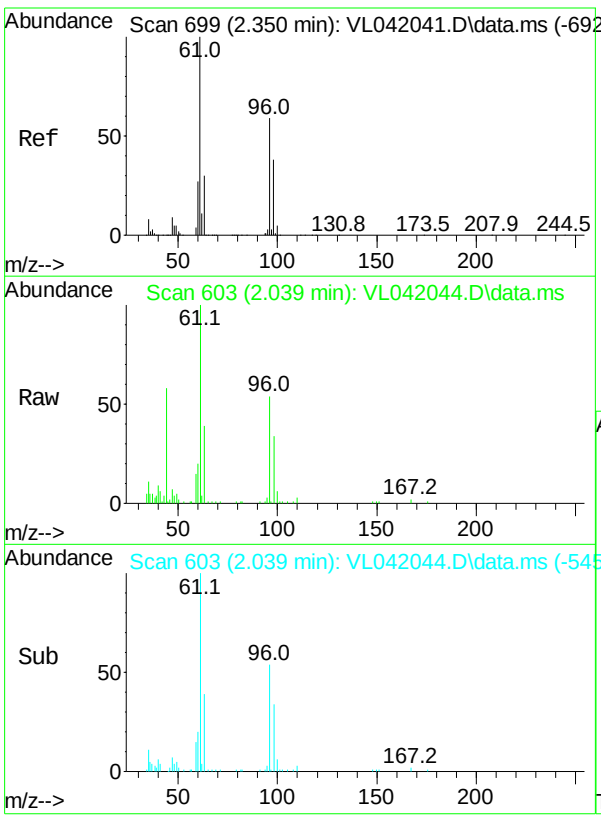


#21
Allyl Chloride
Concen: 0.296 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 41 Resp: 5640

Ion	Ratio	Lower	Upper
41	100		
76	30.2	23.8	35.6
39	79.8	63.8	95.6

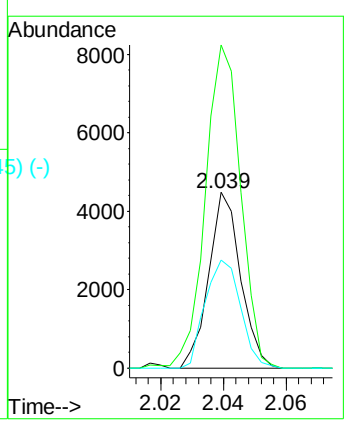


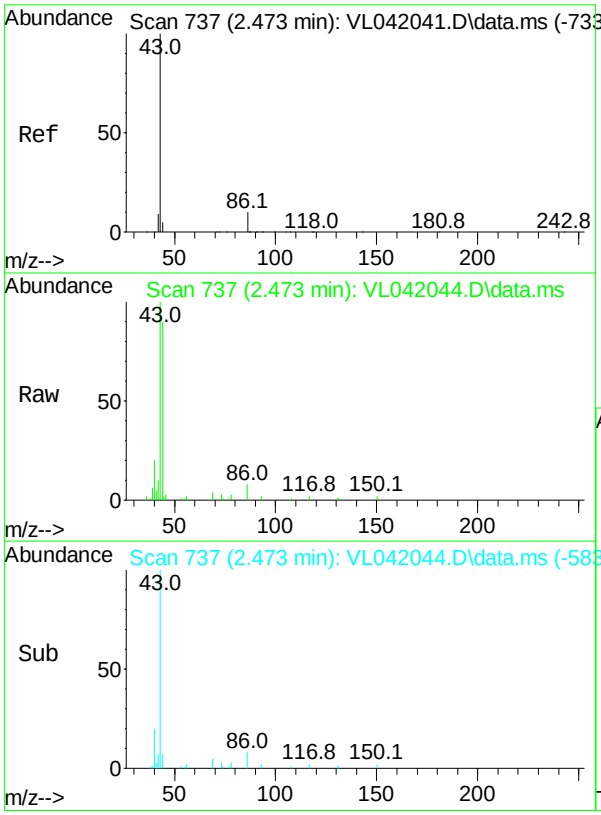


#22
trans-1,2-Dichloroethene
Concen: 0.284 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.311 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 96 Resp: 3173

Ion	Ratio	Lower	Upper
96	100		
61	183.8	136.6	205.0
98	61.6	51.8	77.6



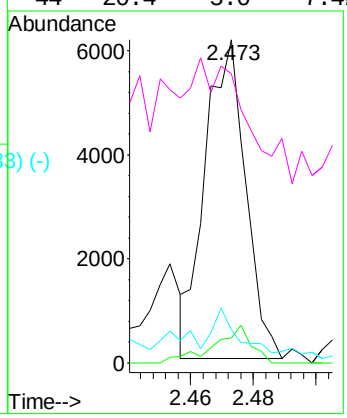


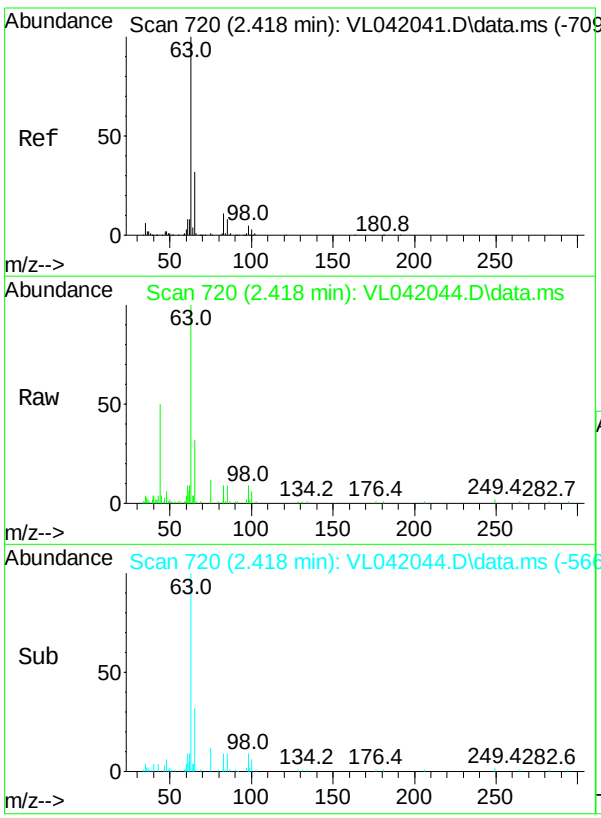
#23
Vinyl Acetate
Concen: 0.385 ppbv
RT: 2.473 min Scan# 737
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 5499

Ion	Ratio	Lower	Upper
43	100		
86	7.8	7.0	10.4
42	6.8	7.6	11.4#
44	20.4	5.0	7.4#

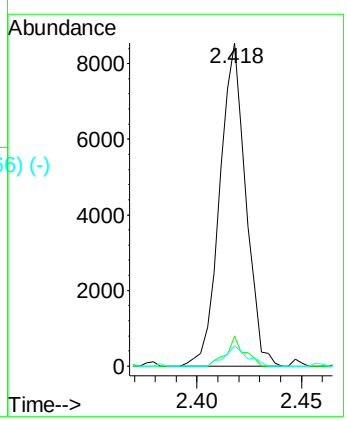


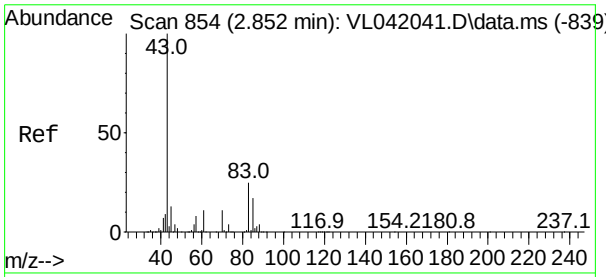


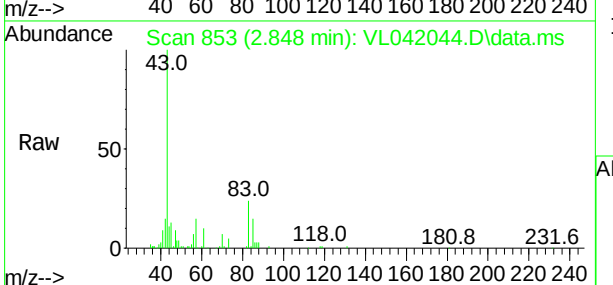
#24
1,1-Dichloroethane
Concen: 0.326 ppbv
RT: 2.418 min Scan# 720
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 63 Resp: 7396

Ion	Ratio	Lower	Upper
63	100		
98	9.2	2.4	7.2#
100	6.4	1.7	5.0#



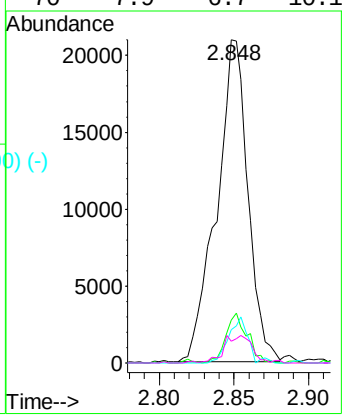


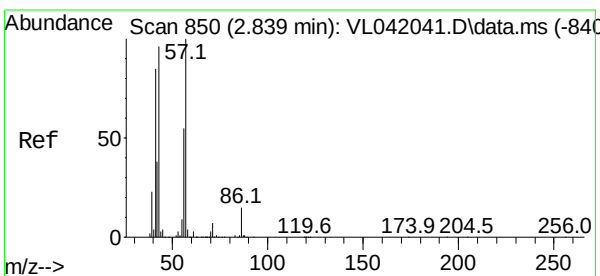


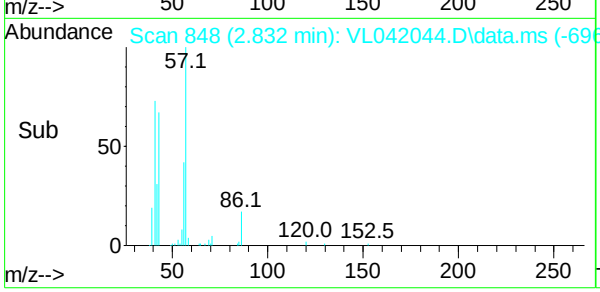
#25
Ethyl Acetate
Concen: 0.423 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 30593

Ion	Ratio	Lower	Upper
43	100		
45	11.3	8.1	12.1
61	9.2	7.2	10.8
70	7.9	6.7	10.1



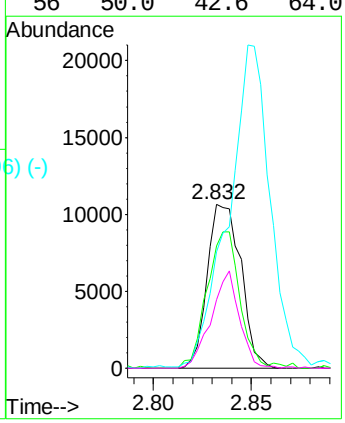




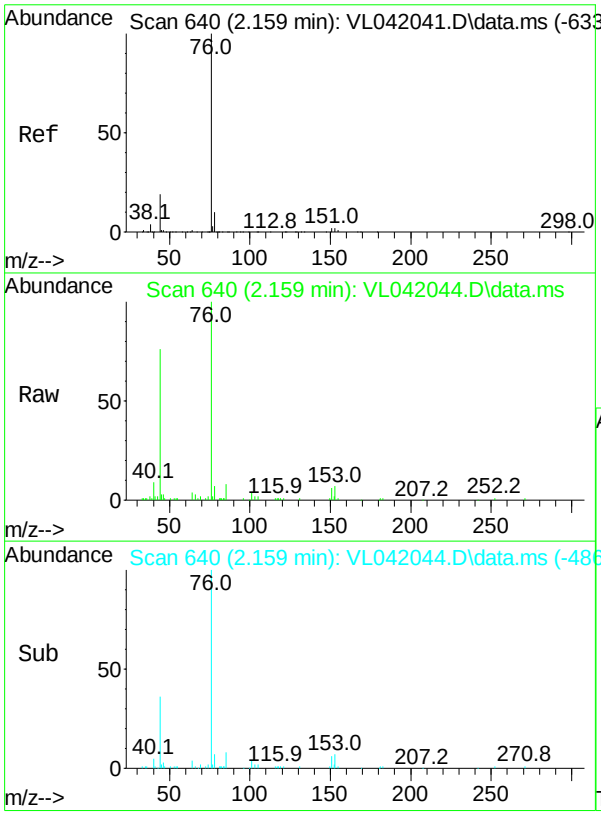
#26
Hexane
Concen: 0.439 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 57 Resp: 12739

Ion	Ratio	Lower	Upper
57	100		
41	83.6	70.6	106.0
43	250.3	199.4	299.0
56	50.0	42.6	64.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

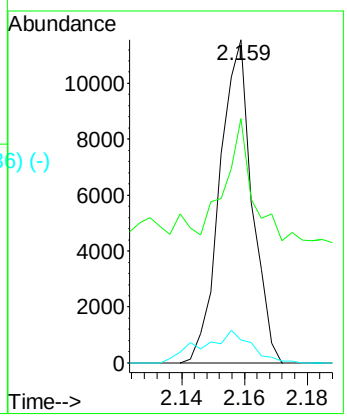


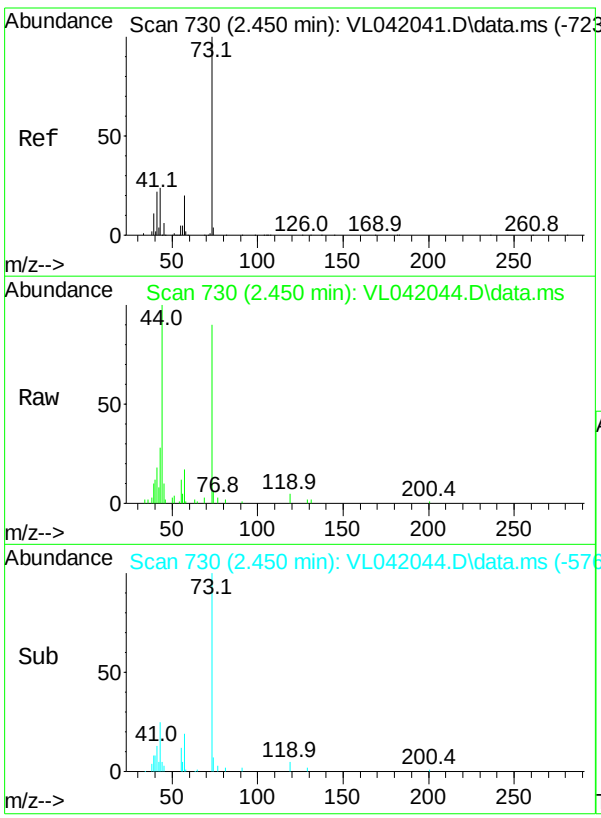
#27
Carbon Disulfide
Concen: 0.305 ppbv
RT: 2.159 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 76 Resp: 8316

Ion	Ratio	Lower	Upper
76	100		
44	79.6	16.2	24.2#
78	15.2	9.4	14.0#

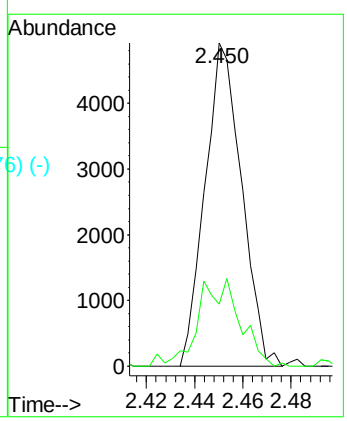


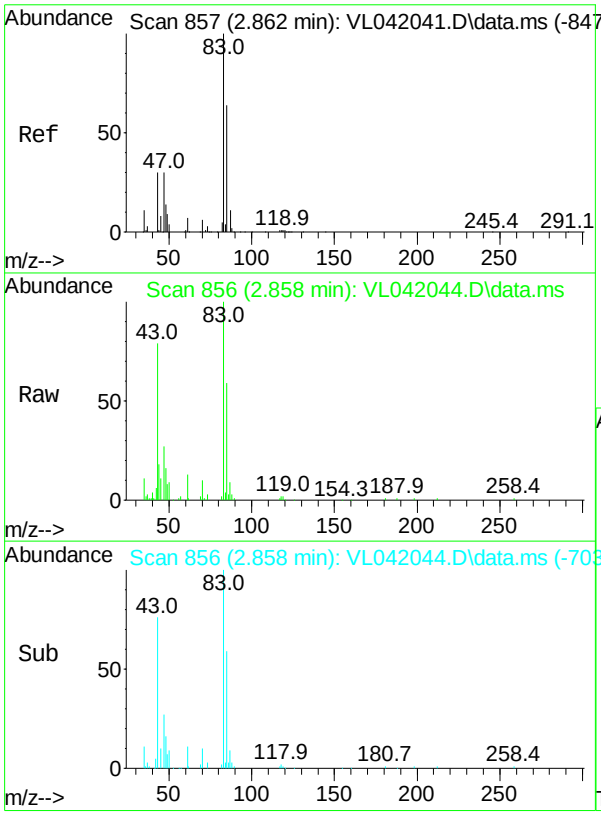


#28
Methyl tert-Butyl Ether
Concen: 0.292 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 73 Resp: 5185

Ion	Ratio	Lower	Upper
73	100		
57	31.8	17.7	26.5#



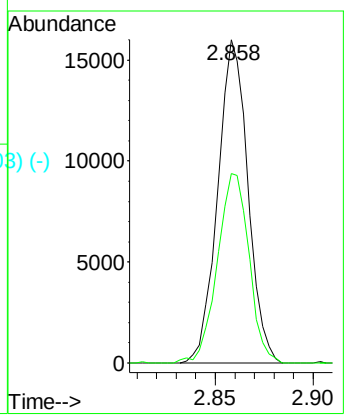


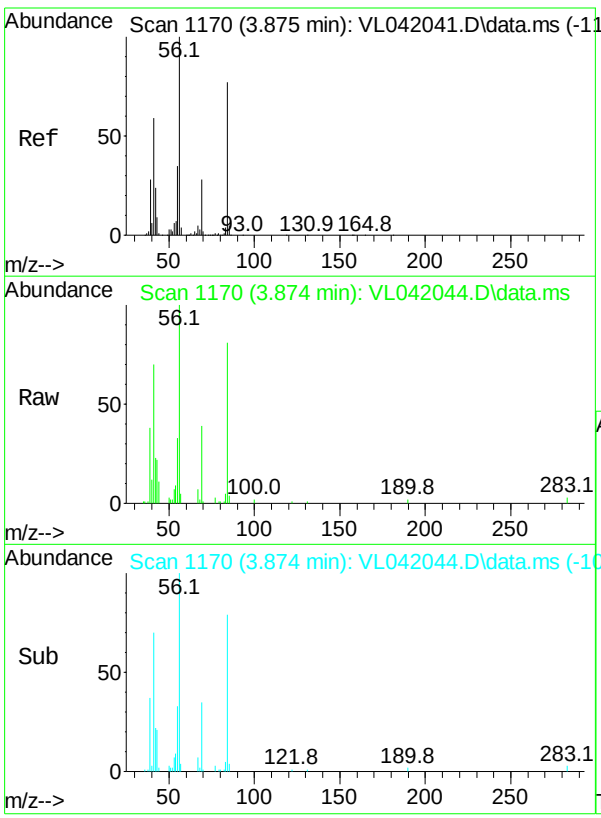
#29
Chloroform
Concen: 0.411 ppbv
RT: 2.858 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 17278

Ion	Ratio	Lower	Upper
83	100		
85	58.6	51.2	76.8

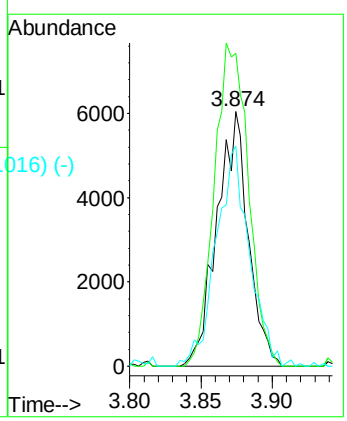


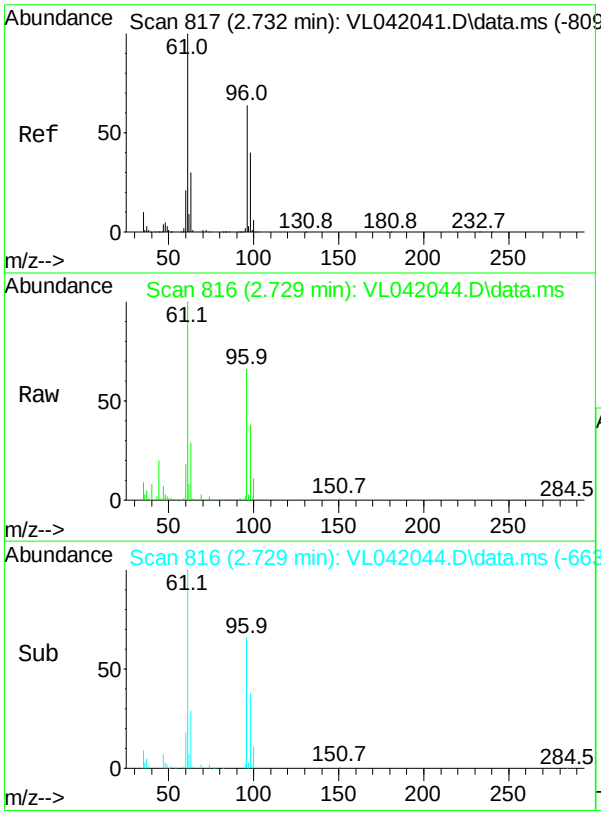


#30
Cyclohexane
Concen: 0.391 ppbv
RT: 3.874 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 84 Resp: 9209

Ion	Ratio	Lower	Upper
84	100		
56	138.5	101.5	152.3
41	92.4	62.6	93.8



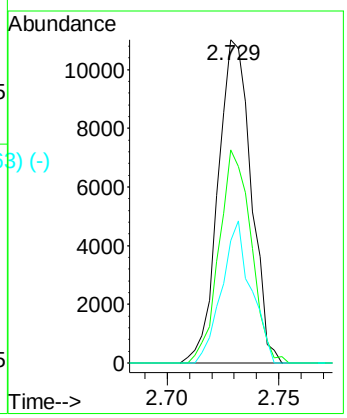


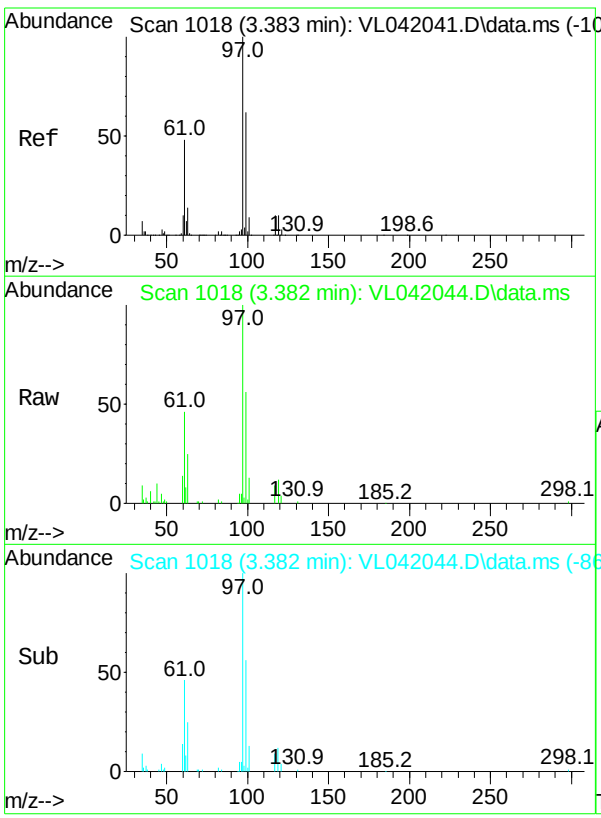
#31
cis-1,2-Dichloroethene
Concen: 0.395 ppbv
RT: 2.729 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 61 Resp: 11344

Ion	Ratio	Lower	Upper
61	100		
96	66.0	51.5	77.3
98	37.7	32.0	48.0

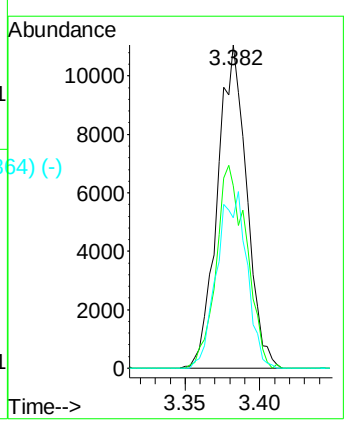


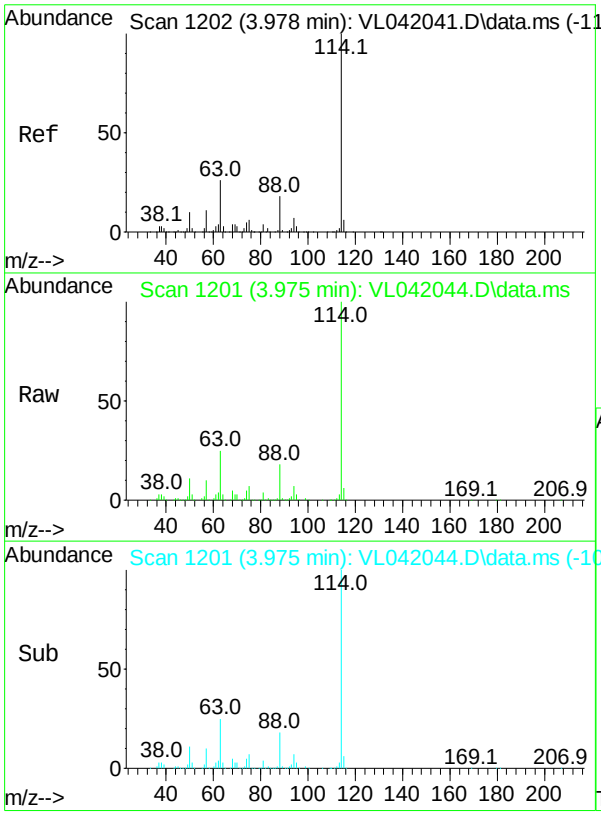


#32
1,1,1-Trichloroethane
Concen: 0.322 ppbv
RT: 3.382 min Scan# 1018
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 97 Resp: 15027

Ion	Ratio	Lower	Upper
97	100		
99	65.0	49.8	74.6
61	55.9	38.9	58.3



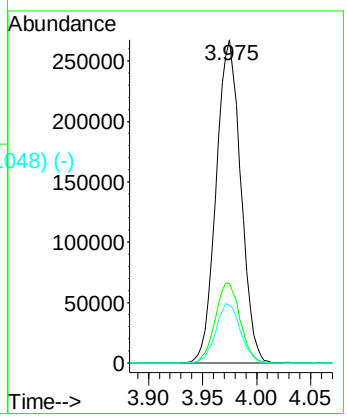


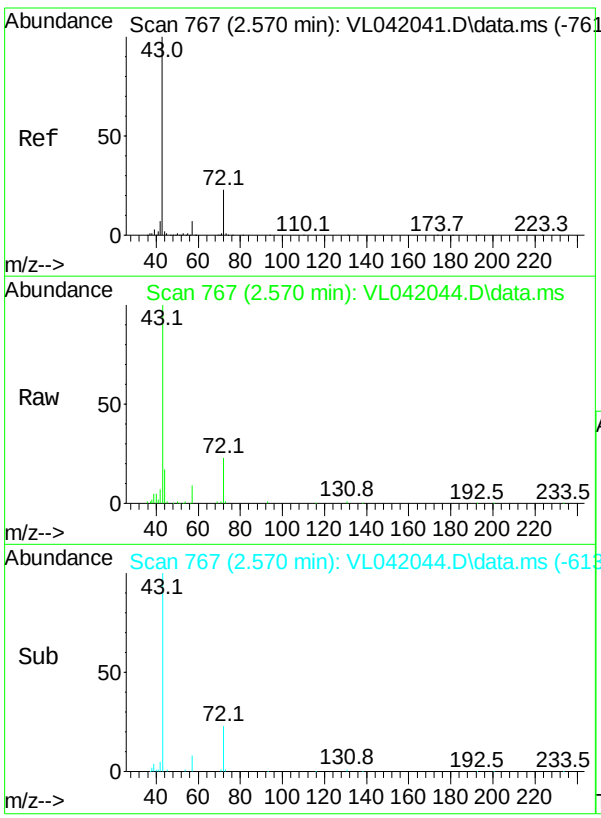
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:114 Resp: 421340

Ion	Ratio	Lower	Upper
114	100		
63	24.9	20.1	30.1
88	18.3	14.3	21.5

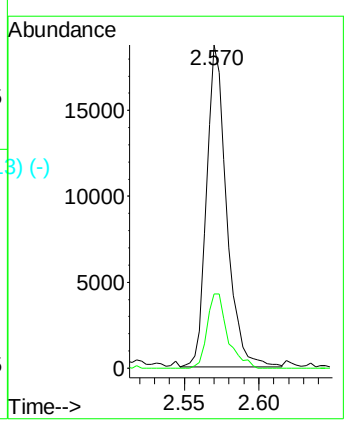


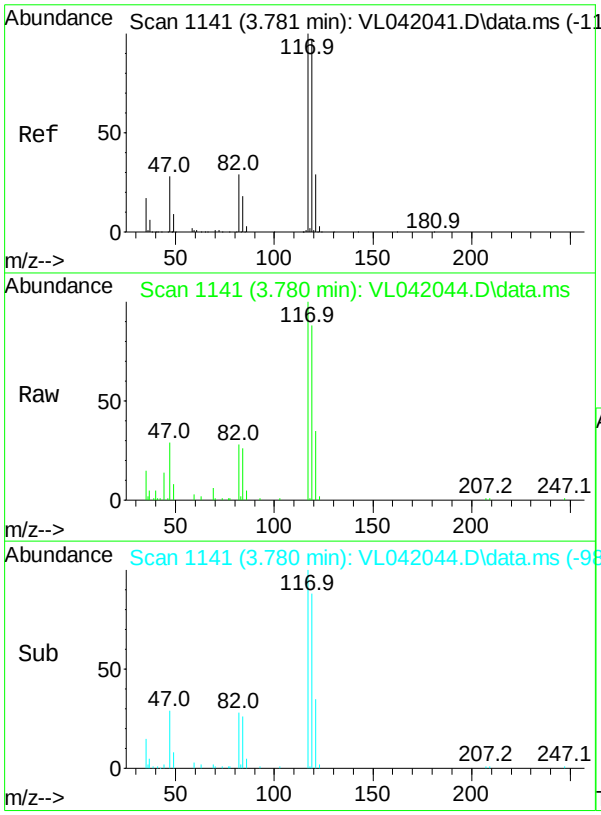


#34
2-Butanone
Concen: 0.484 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 17555

Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.5	27.7



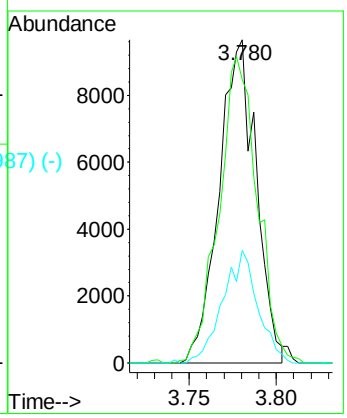


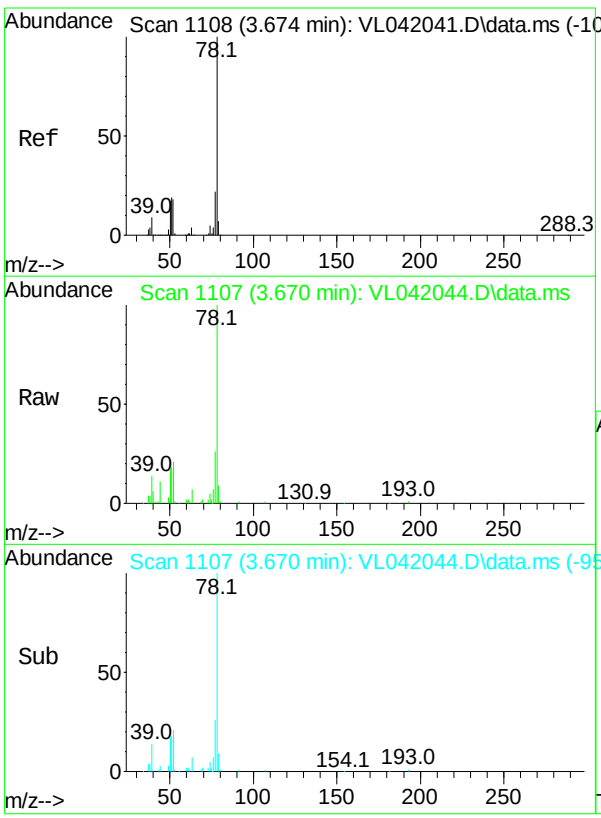
#85
Carbon Tetrachloride
Concen: 0.348 ppbv
RT: 3.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:117 Resp: 14223

Ion	Ratio	Lower	Upper
117	100		
119	87.0	77.8	116.8
121	34.8	23.4	35.0

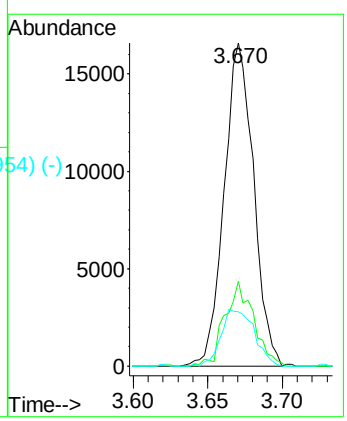


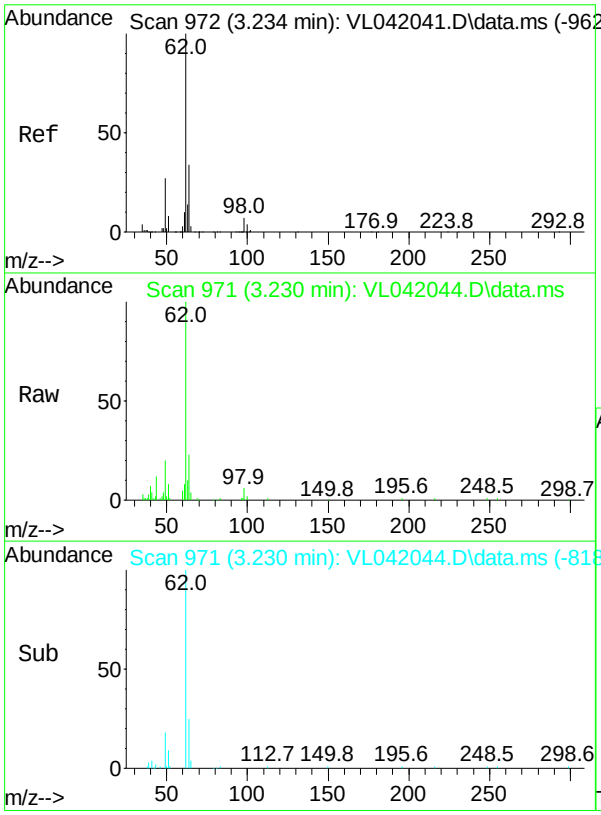


#36
Benzene
Concen: 0.445 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 78 Resp: 22728

Ion	Ratio	Lower	Upper
78	100		
77	26.3	17.7	26.5
50	16.9	13.9	20.9



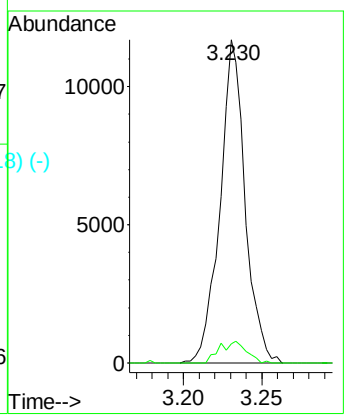


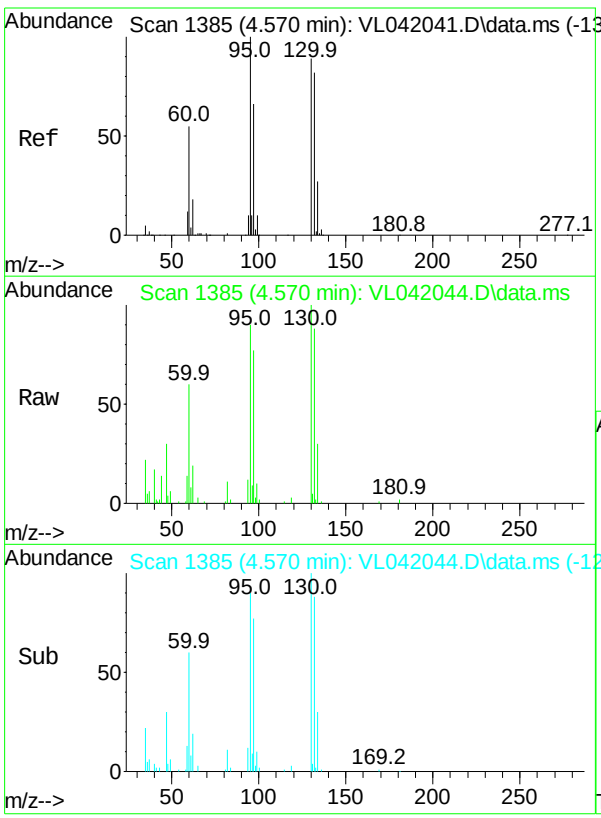
#37
1,2-Dichloroethane
Concen: 0.452 ppbv
RT: 3.230 min Scan# 9
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 13141

Ion	Ratio	Lower	Upper
62	100		
98	7.1	5.7	8.5

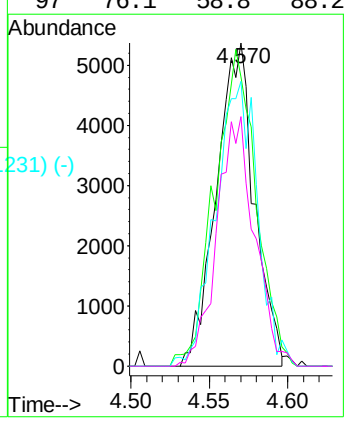


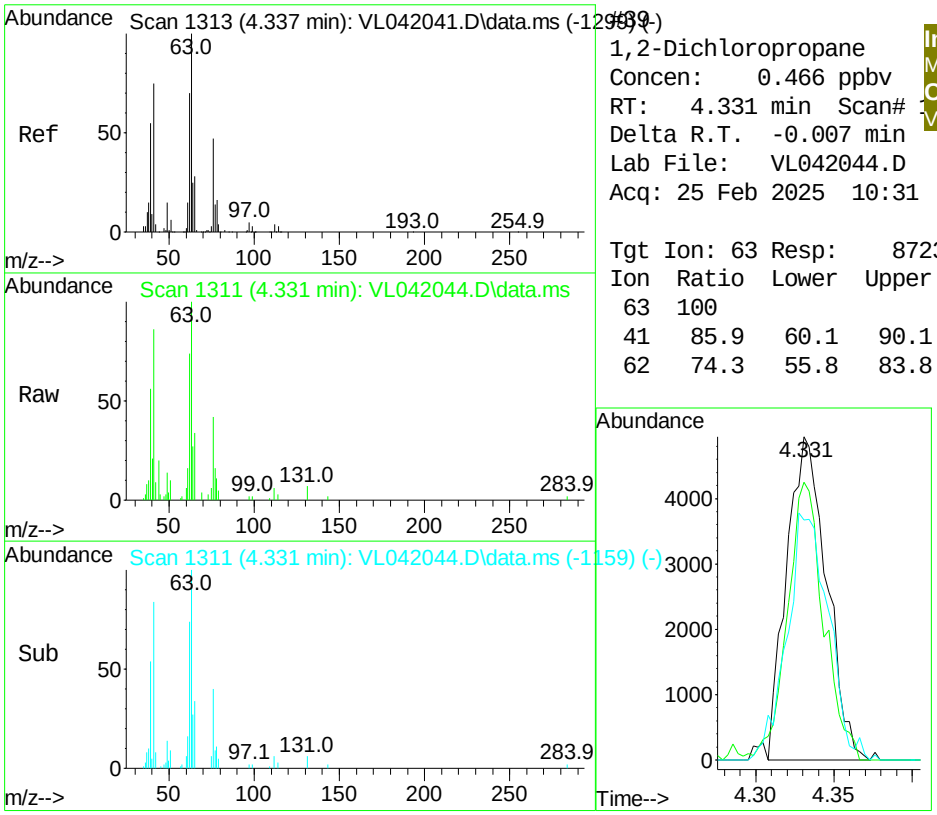


#38
Trichloroethene
Concen: 0.440 ppbv
RT: 4.570 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:130 Resp: 9115

Ion	Ratio	Lower	Upper
130	100		
95	86.1	89.5	134.3#
132	85.3	73.8	110.6
97	76.1	58.8	88.2



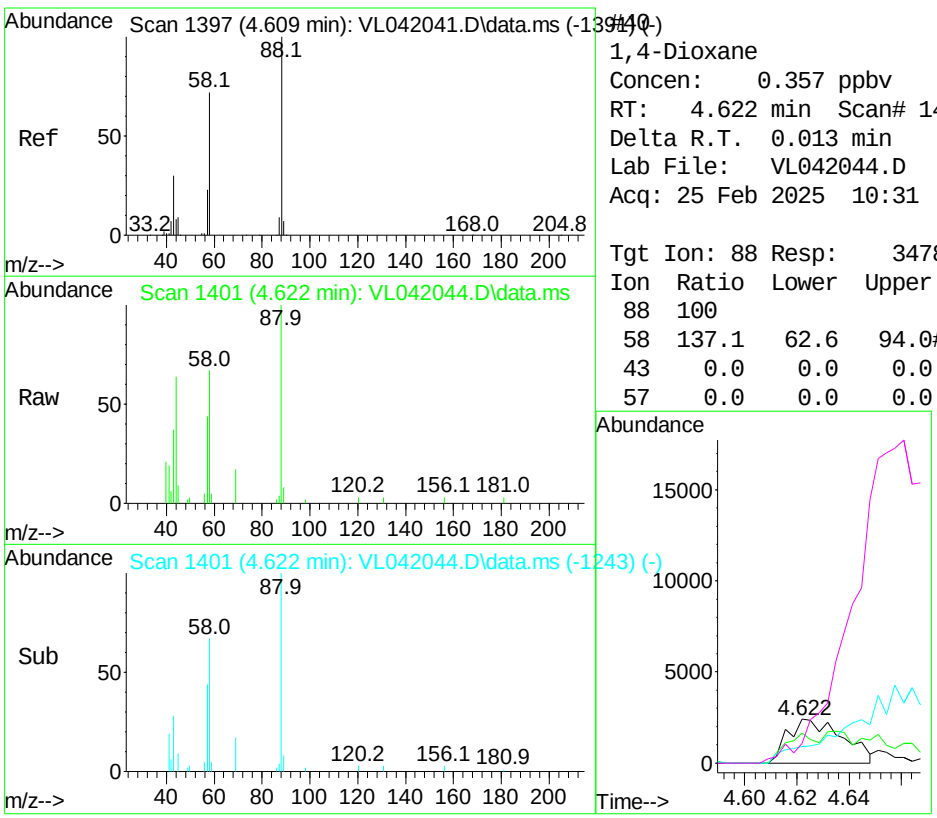


#89
1,2-Dichloropropane
Concen: 0.466 ppbv
RT: 4.331 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 63 Resp: 8723

Ion	Ratio	Lower	Upper
63	100		
41	85.9	60.1	90.1
62	74.3	55.8	83.8

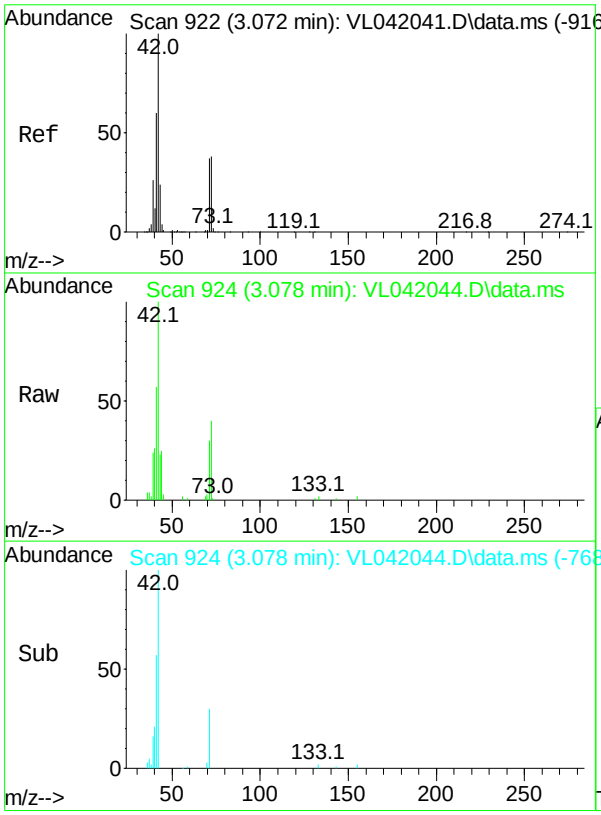
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



#90
1,4-Dioxane
Concen: 0.357 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.013 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 88 Resp: 3478

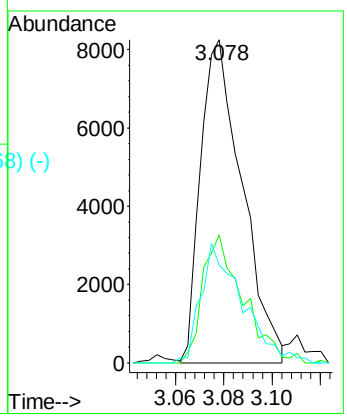
Ion	Ratio	Lower	Upper
88	100		
58	137.1	62.6	94.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0

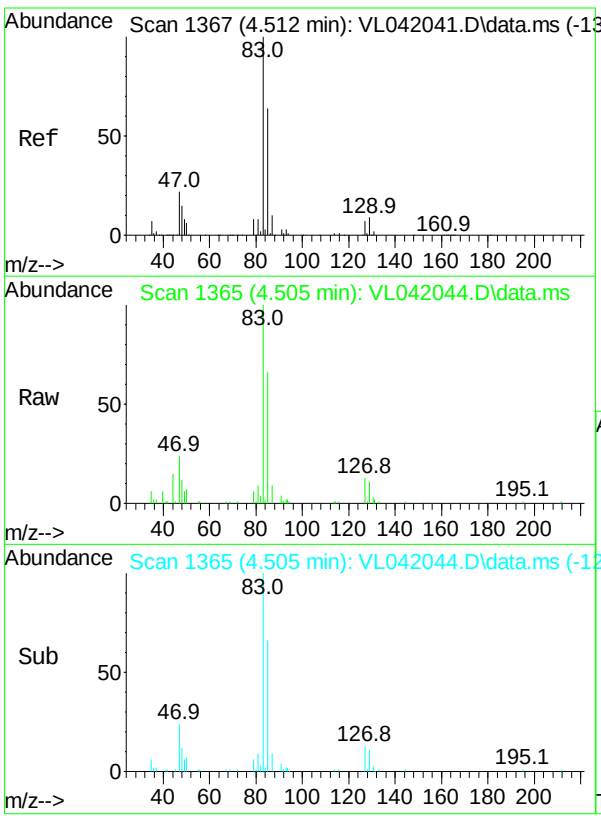


#41
Tetrahydrofuran
Concen: 0.477 ppbv
RT: 3.078 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 42 Resp: 9880

Ion	Ratio	Lower	Upper
42	100		
72	38.7	30.2	45.2
71	37.0	28.2	42.4

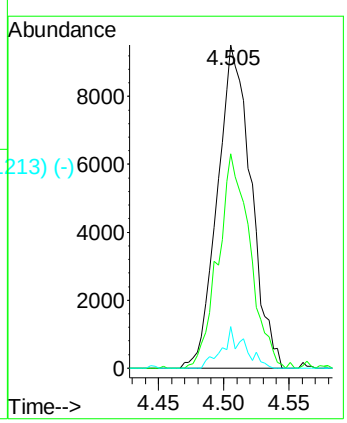




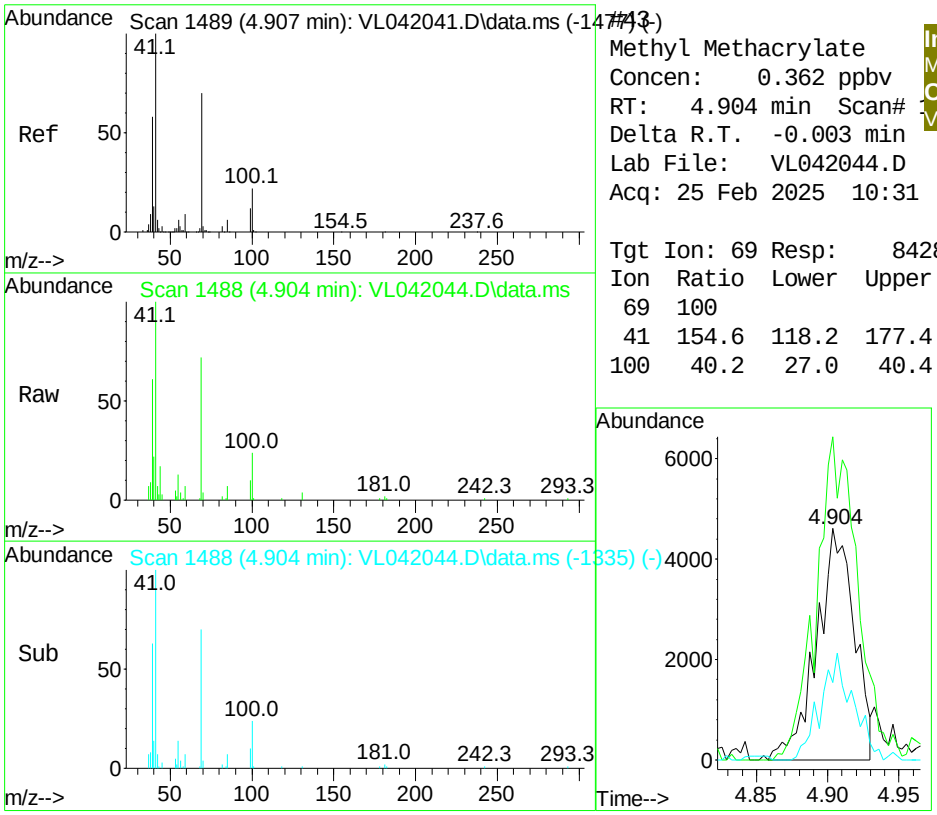
#42
Bromodichloromethane
Concen: 0.431 ppbv
RT: 4.505 min Scan# 1365
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 83 Resp: 16973

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.4	77.2
127	12.8	5.8	8.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

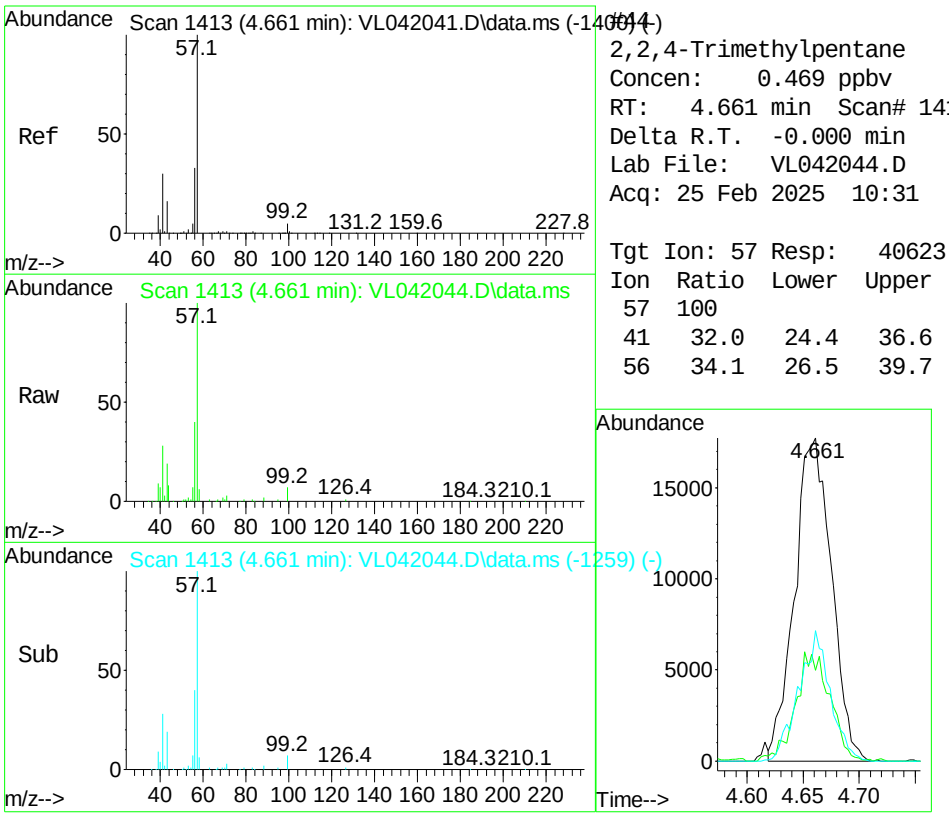


#43
Methyl Methacrylate
Concen: 0.362 ppbv
RT: 4.904 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 69 Resp: 8428

Ion	Ratio	Lower	Upper
69	100		
41	154.6	118.2	177.4
100	40.2	27.0	40.4

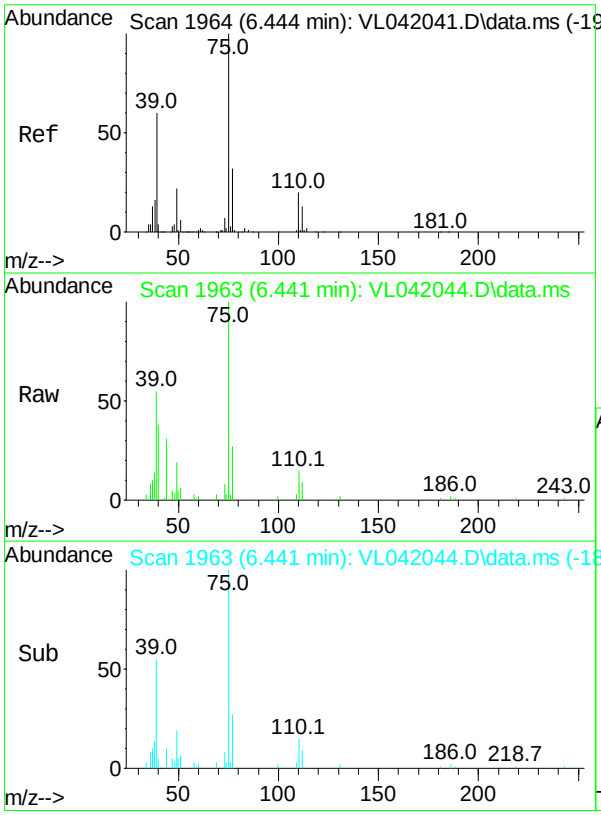
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



#44
2,2,4-Trimethylpentane
Concen: 0.469 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 57 Resp: 40623

Ion	Ratio	Lower	Upper
57	100		
41	32.0	24.4	36.6
56	34.1	26.5	39.7

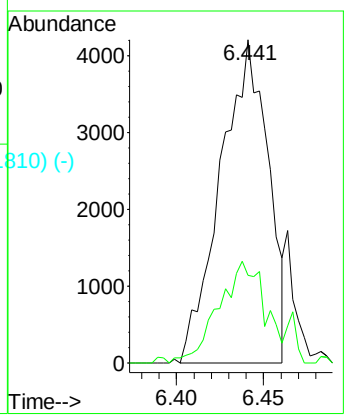


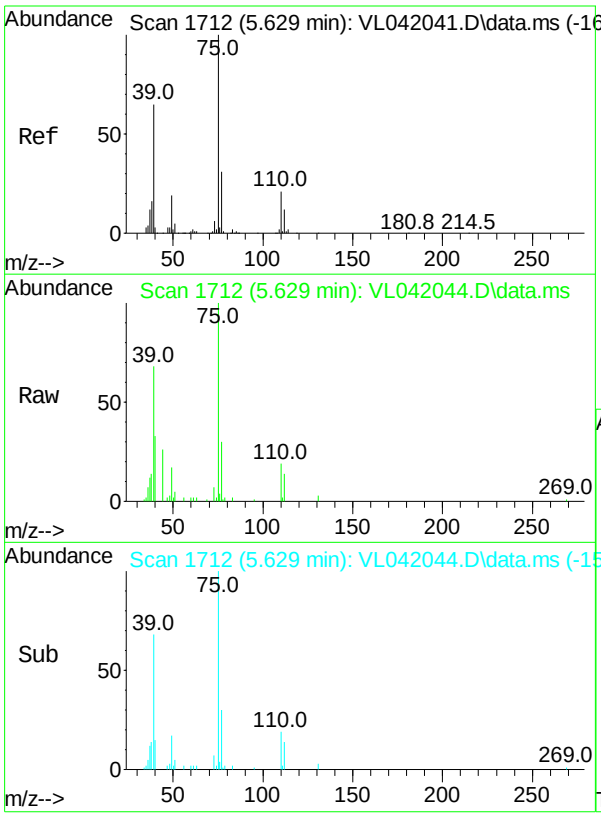
#45
t-1,3-Dichloropropene
Concen: 0.364 ppbv
RT: 6.441 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 75 Resp: 8004

Ion	Ratio	Lower	Upper
75	100		
77	27.0	25.9	38.9

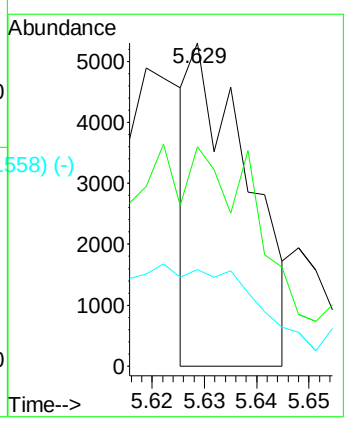


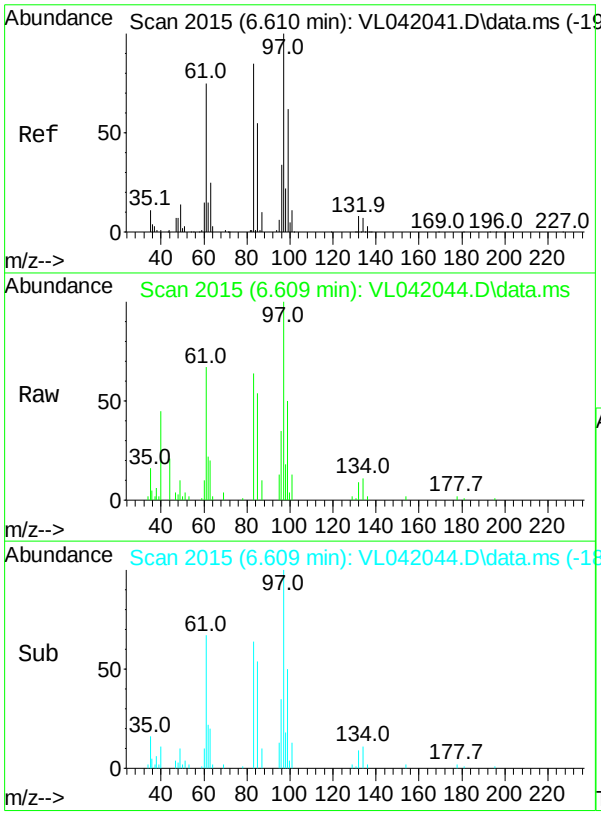


#46
cis-1,3-Dichloropropene
Concen: 0.145 ppbv
RT: 5.629 min Scan# 1712
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 75 Resp: 4036

Ion	Ratio	Lower	Upper
75	100		
39	55.1	51.9	77.9
77	26.6	24.9	37.3

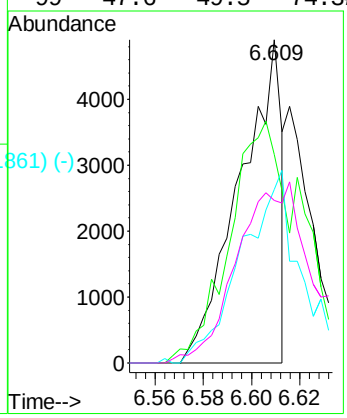




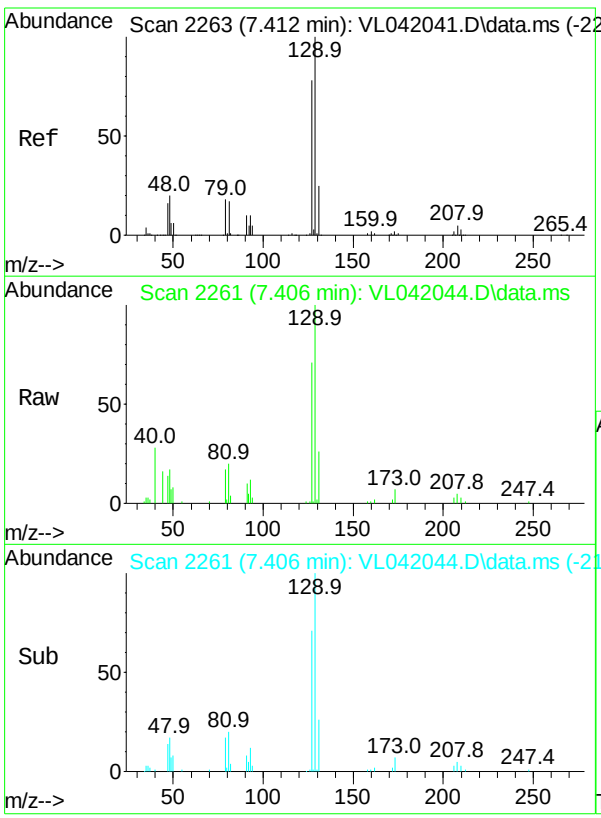
#47
1,1,2-Trichloroethane
Concen: 0.300 ppbv
RT: 6.609 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 97 Resp: 5914

Ion	Ratio	Lower	Upper
97	100		
83	60.2	68.1	102.1#
85	53.7	44.0	66.0
99	47.6	49.5	74.3#



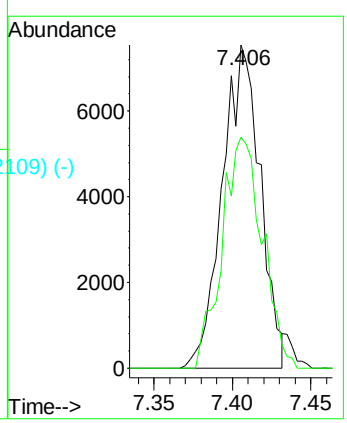
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

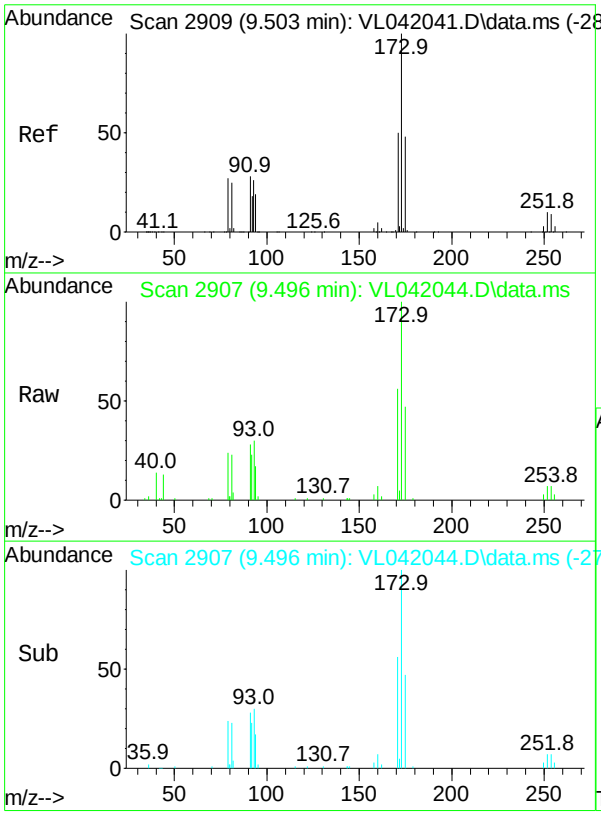


#48
Dibromochloromethane
Concen: 0.384 ppbv
RT: 7.406 min Scan# 2261
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:129 Resp: 12677

Ion	Ratio	Lower	Upper
129	100		
127	76.1	38.6	115.8

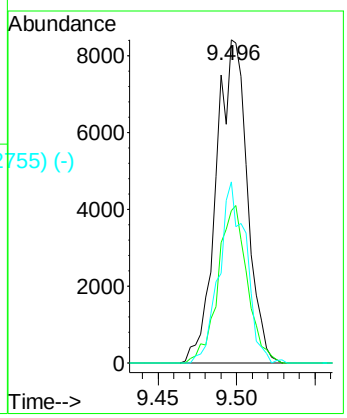




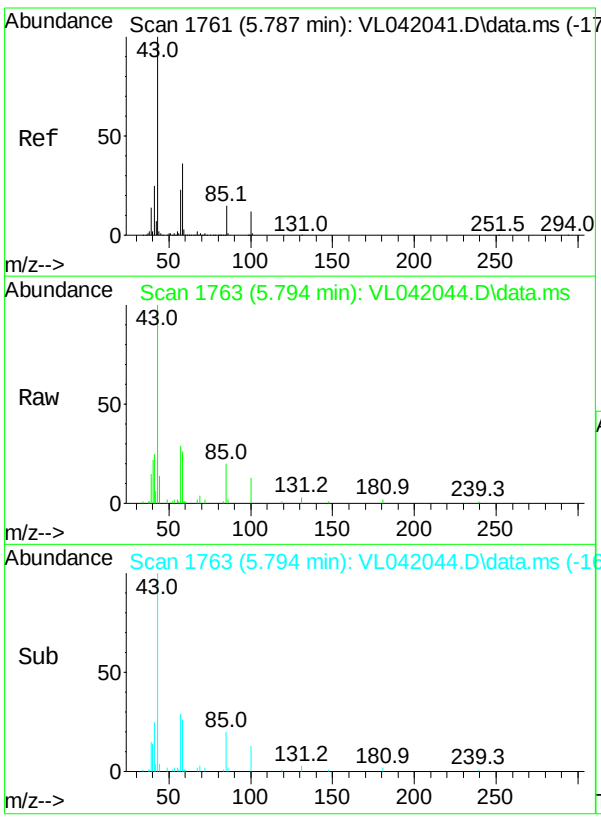
#49
Bromoform
Concen: 0.430 ppbv
RT: 9.496 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:173 Resp: 11640

Ion	Ratio	Lower	Upper
173	100		
175	46.0	38.3	57.5
171	48.8	40.2	60.2



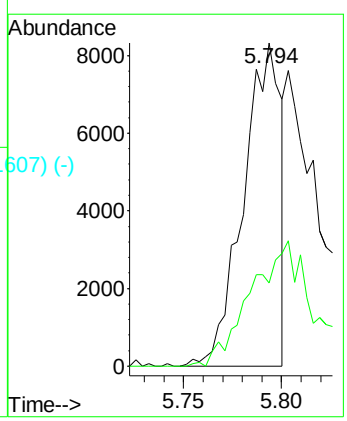
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

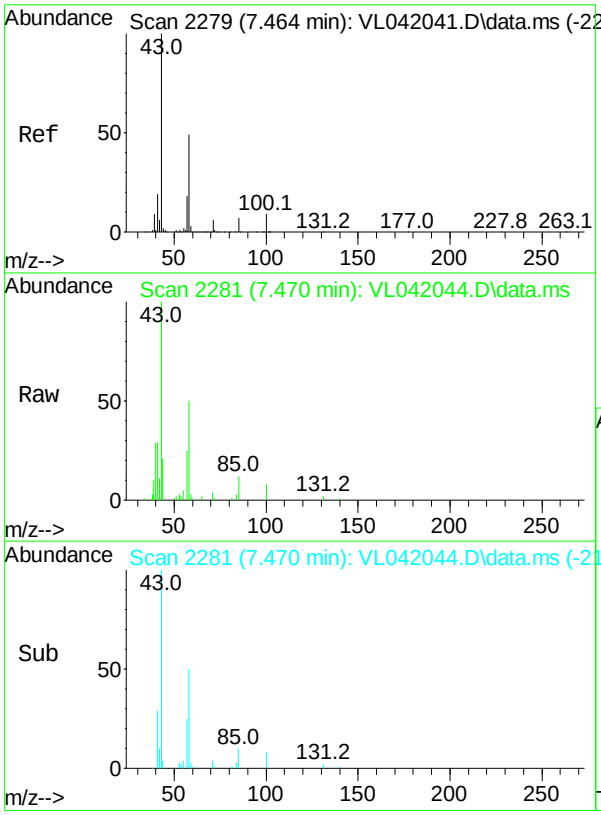


#50
4-Methyl-2-Pentanone
Concen: 0.198 ppbv
RT: 5.794 min Scan# 1763
Delta R.T. 0.006 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 11029

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.3	43.9#

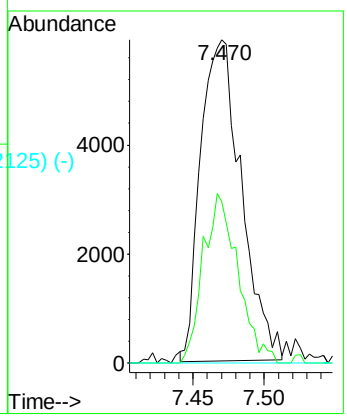


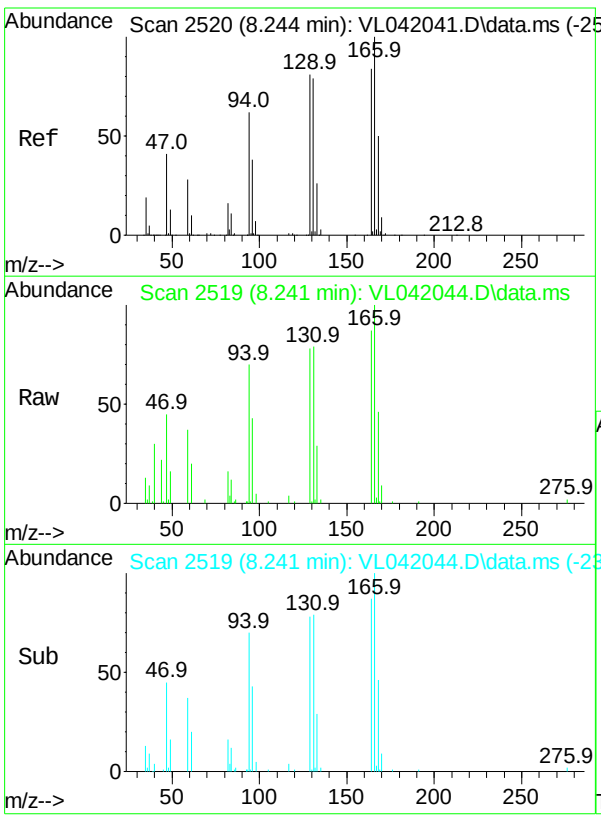


#51
2-Hexanone
Concen: 0.257 ppbv
RT: 7.470 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 43 Resp: 11717

Ion	Ratio	Lower	Upper
43	100		
58	45.4	39.0	58.6
98	0.0	0.1	0.1#

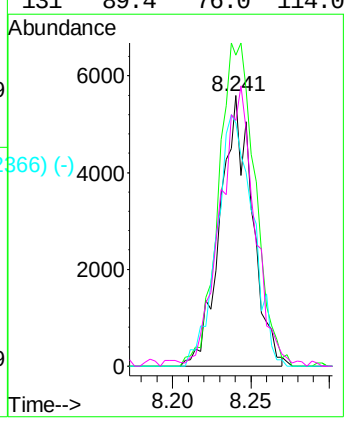




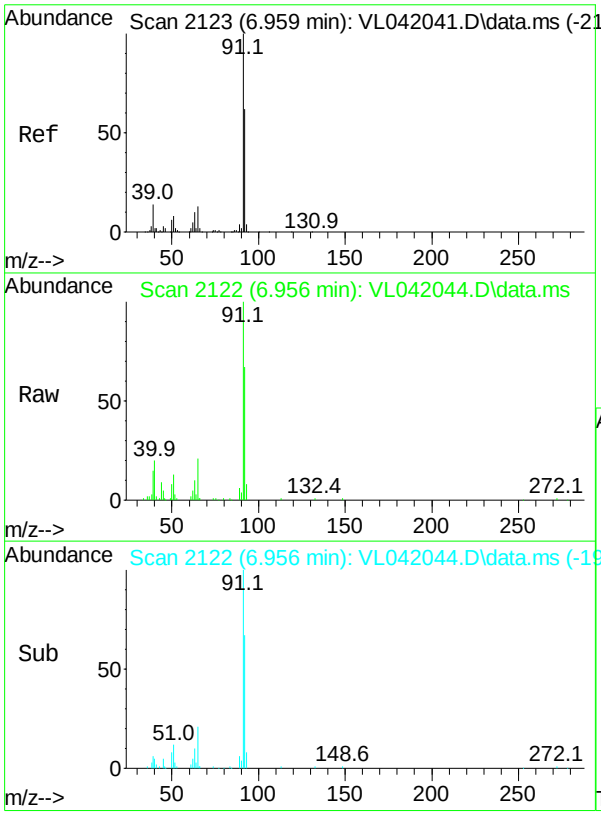
#52
Tetrachloroethene
Concen: 0.450 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:164 Resp: 8012

Ion	Ratio	Lower	Upper
164	100		
166	114.8	95.7	143.5
129	89.8	77.1	115.7
131	89.4	76.0	114.0



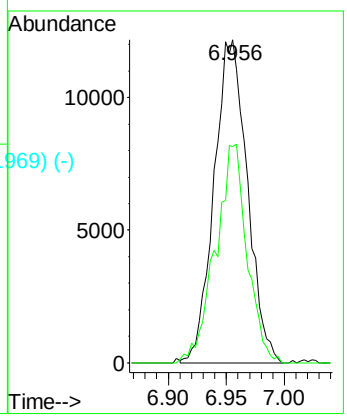
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



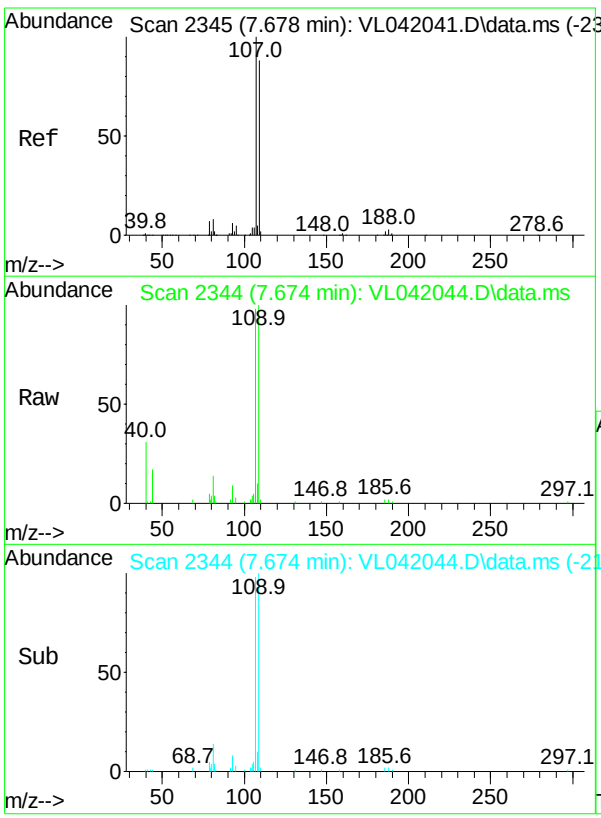
#53
Toluene
Concen: 0.398 ppbv
RT: 6.956 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 24224

Ion	Ratio	Lower	Upper
91	100		
92	64.4	49.0	73.6



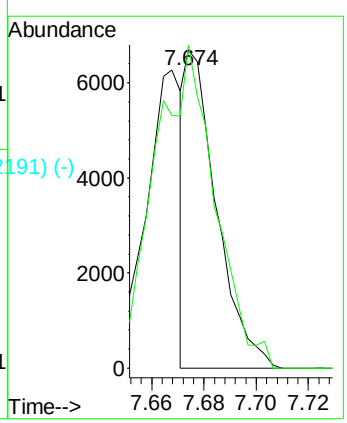
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

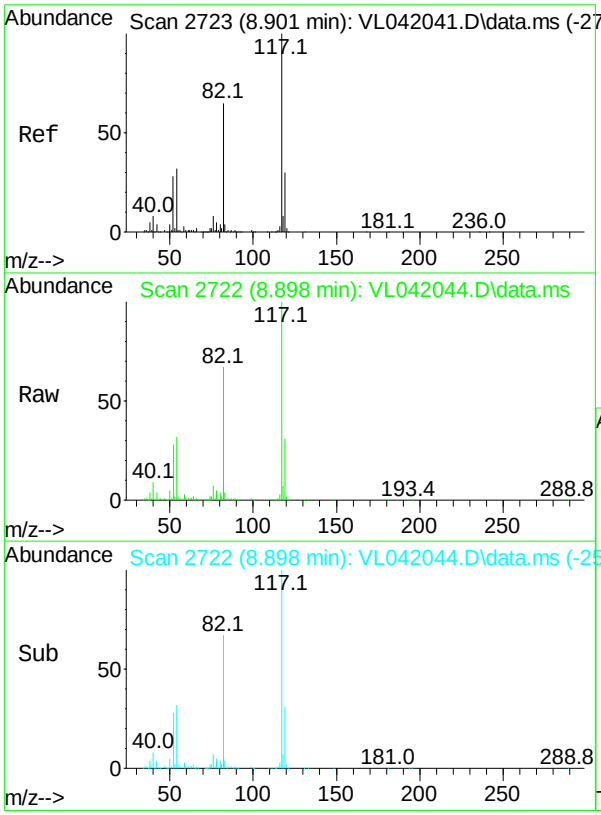


#54
1,2-Dibromoethane
Concen: 0.205 ppbv
RT: 7.674 min Scan# 2344
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:107 Resp: 5550

Ion	Ratio	Lower	Upper
107	100		
109	101.6	70.2	105.4

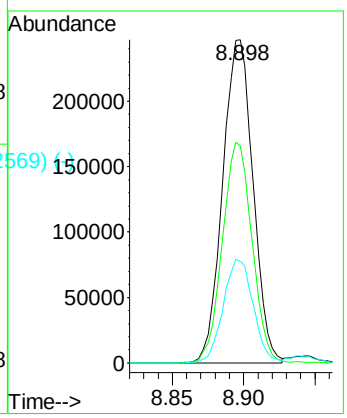




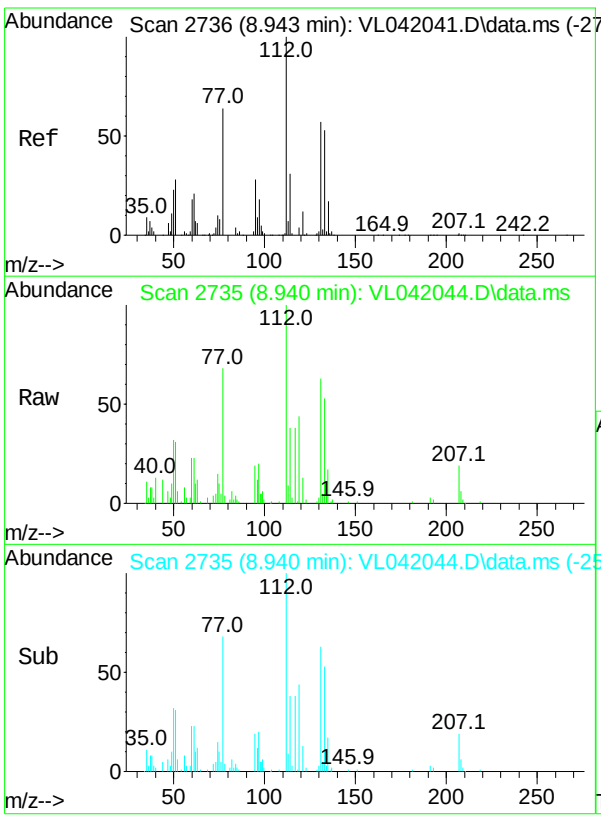
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:117 Resp: 365954

Ion	Ratio	Lower	Upper
117	100		
82	66.8	55.0	82.6
119	33.5	25.9	38.9



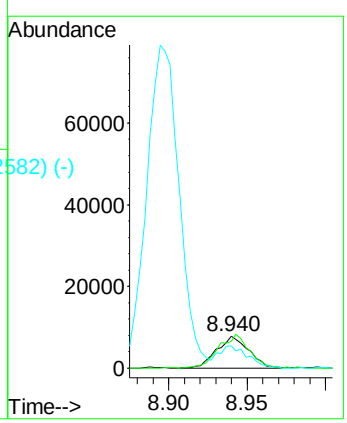
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

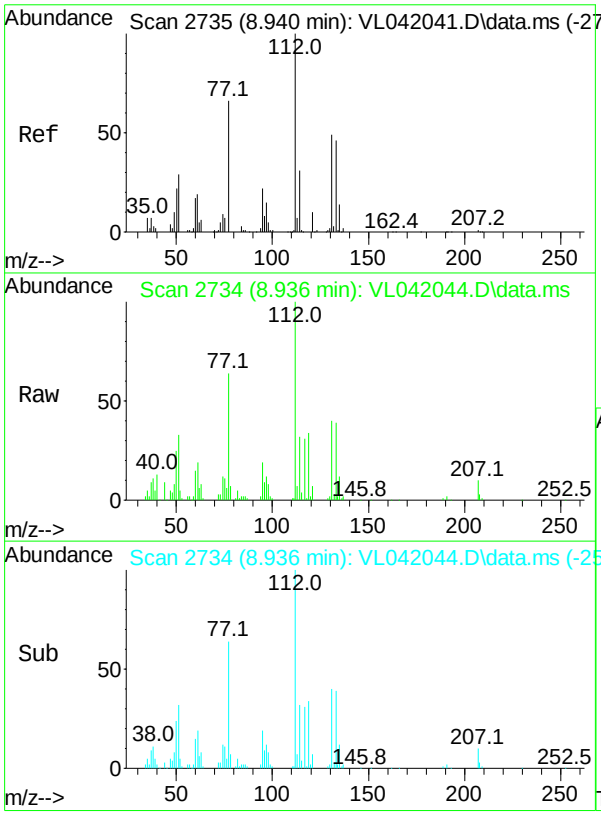


#56
1,1,1,2-Tetrachloroethane
Concen: 0.424 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:131 Resp: 11100

Ion	Ratio	Lower	Upper
131	100		
133	103.4	75.8	113.8
119	0.0	52.1	78.1#

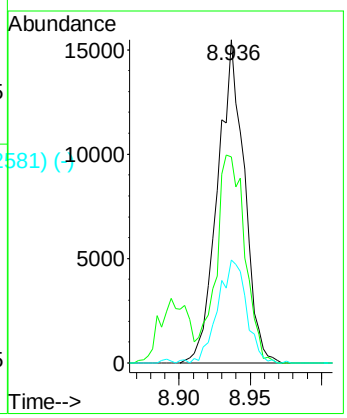


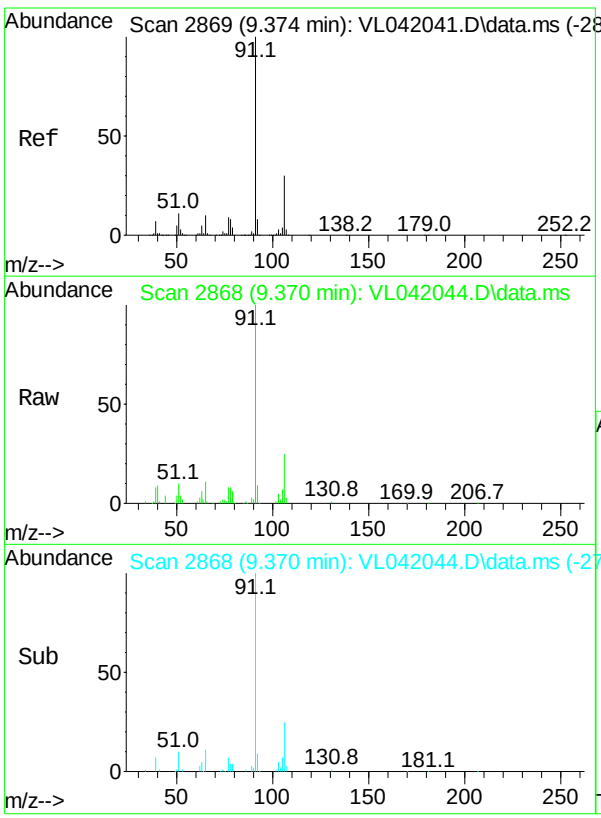


#57
Chlorobenzene
Concen: 0.468 ppbv
RT: 8.936 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:112 Resp: 20167

Ion	Ratio	Lower	Upper
112	100		
77	63.8	53.4	80.2
114	31.9	28.3	34.5

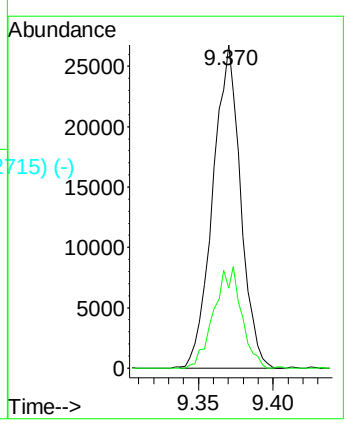




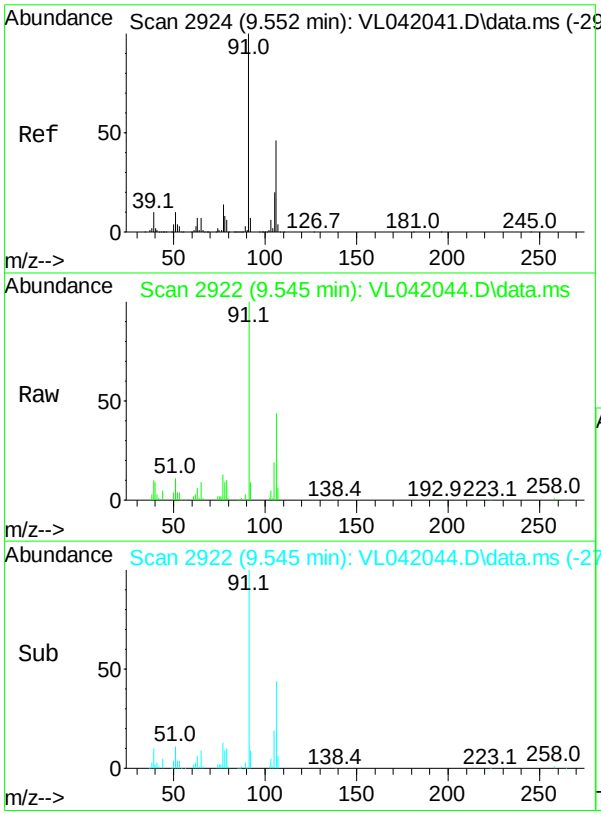
#58
Ethyl Benzene
Concen: 0.431 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 34506

Ion	Ratio	Lower	Upper
91	100		
106	24.8	24.2	36.2



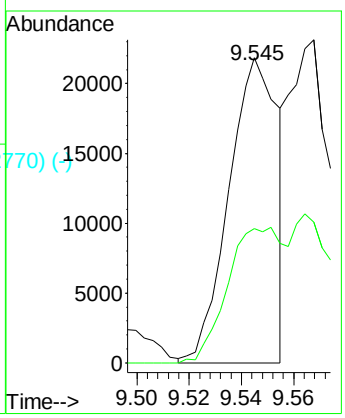
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



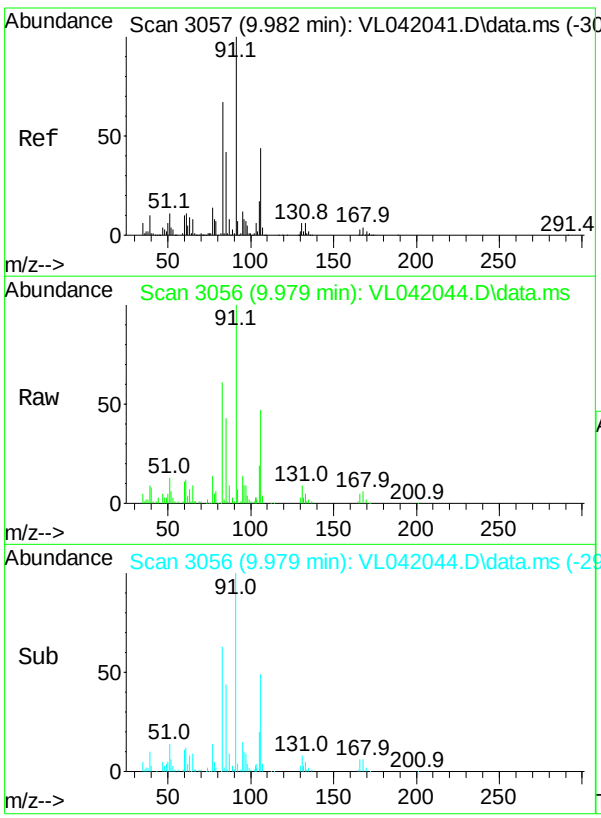
#59
m/p-Xylene
Concen: 0.446 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 28109

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



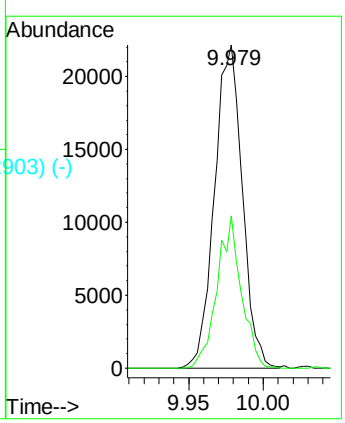
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

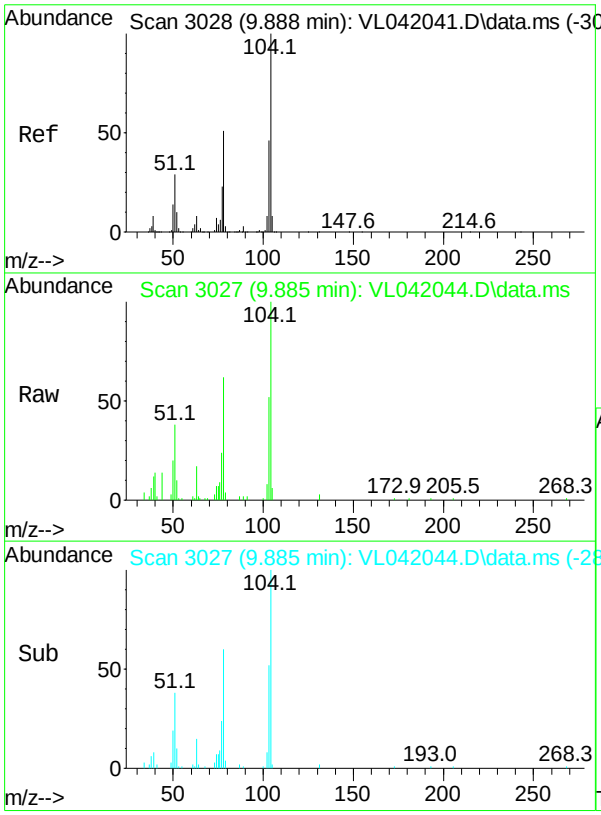


#60
o-Xylene
Concen: 0.451 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 28757

Ion	Ratio	Lower	Upper
91	100		
106	41.3	22.3	66.8

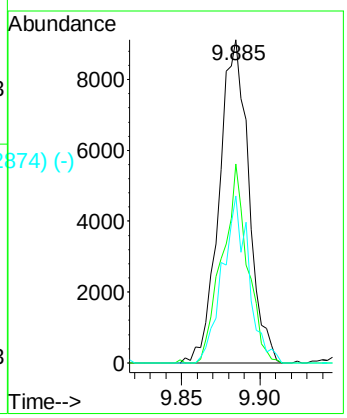


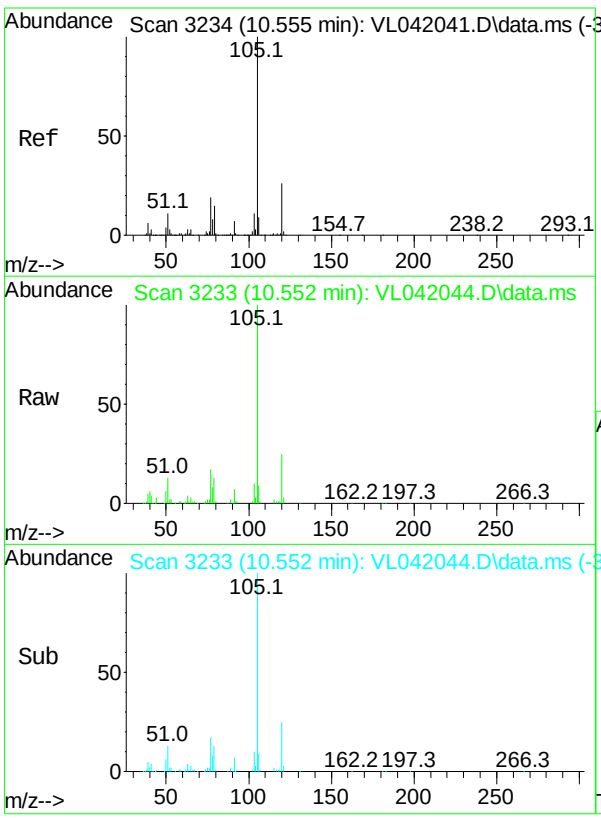


#61
Styrene
Concen: 0.396 ppbv
RT: 9.885 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:104 Resp: 12051

Ion	Ratio	Lower	Upper
104	100		
78	52.9	41.0	61.4
103	46.1	37.0	55.6

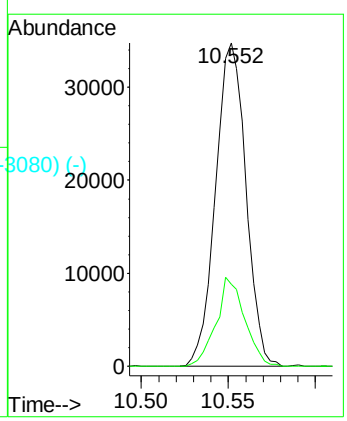




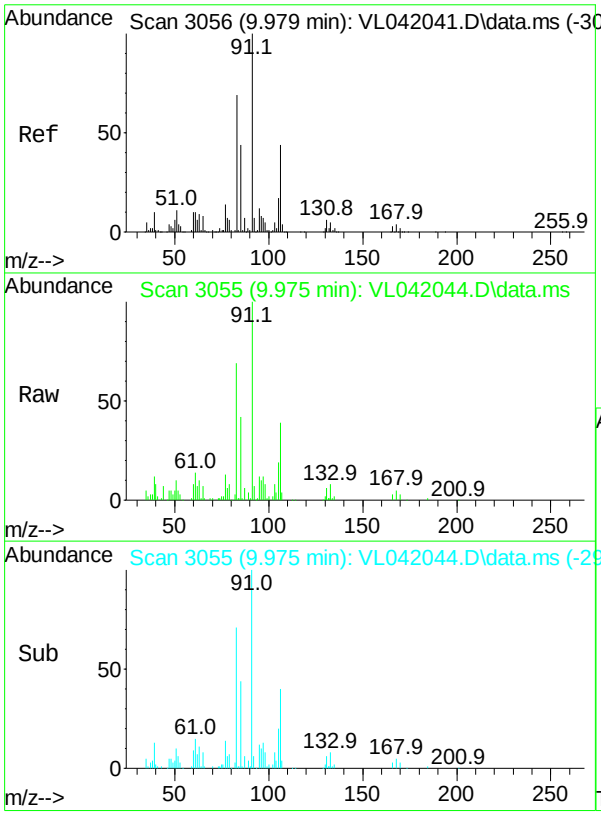
#62
Isopropylbenzene
Concen: 0.439 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 42074

Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.7	31.1



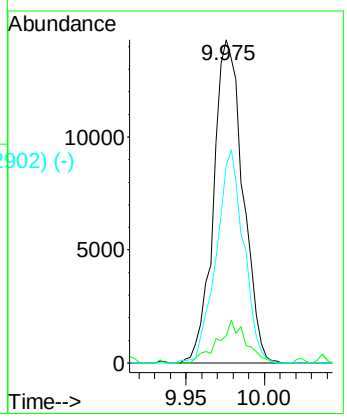
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



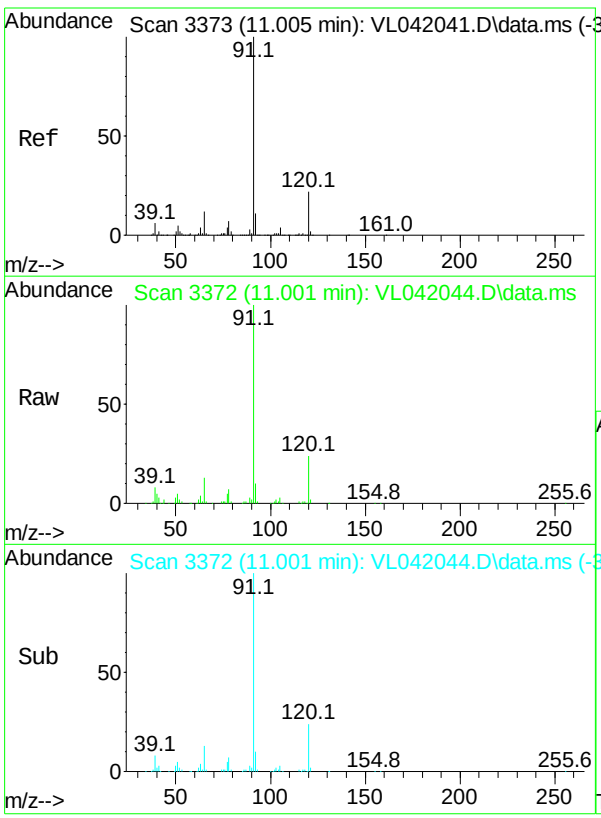
#63
1,1,2,2-Tetrachloroethan
Concen: 0.456 ppbv
RT: 9.975 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 83 Resp: 18774

Ion	Ratio	Lower	Upper
83	100		
131	12.5	4.5	13.7
85	61.7	32.1	96.3



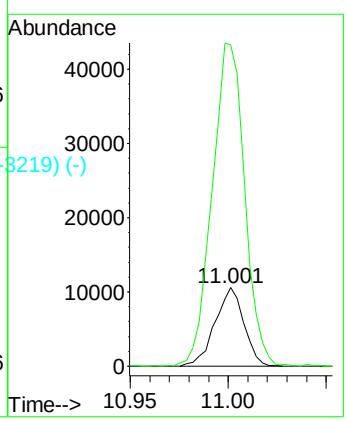
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

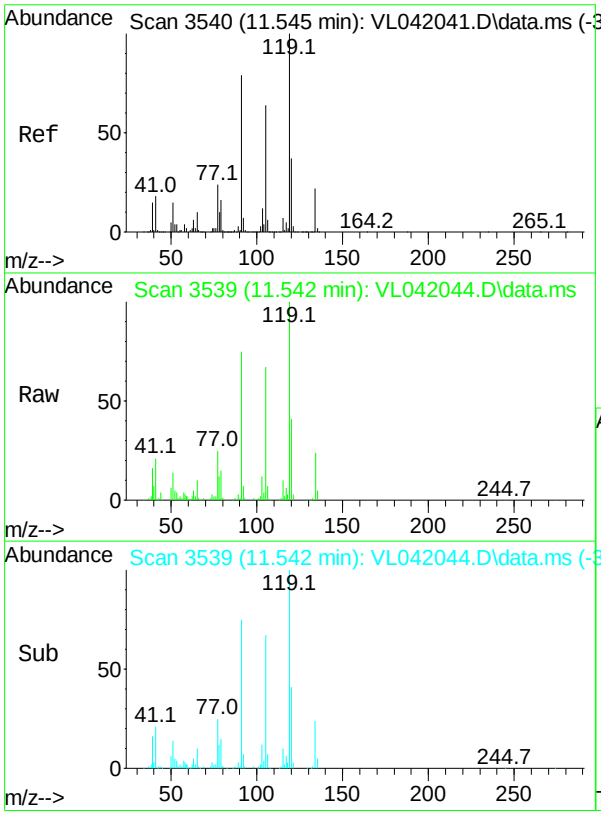


#64
n-propylbenzene
Concen: 0.463 ppbv
RT: 11.001 min Scan# 3372
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:120 Resp: 10900

Ion	Ratio	Lower	Upper
120	100		
91	464.2	370.6	556.0

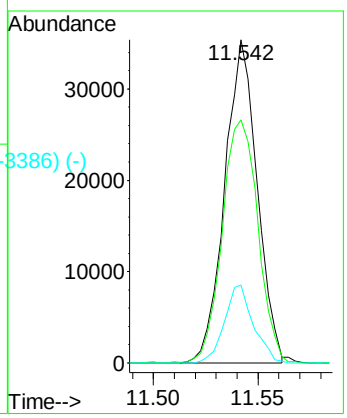




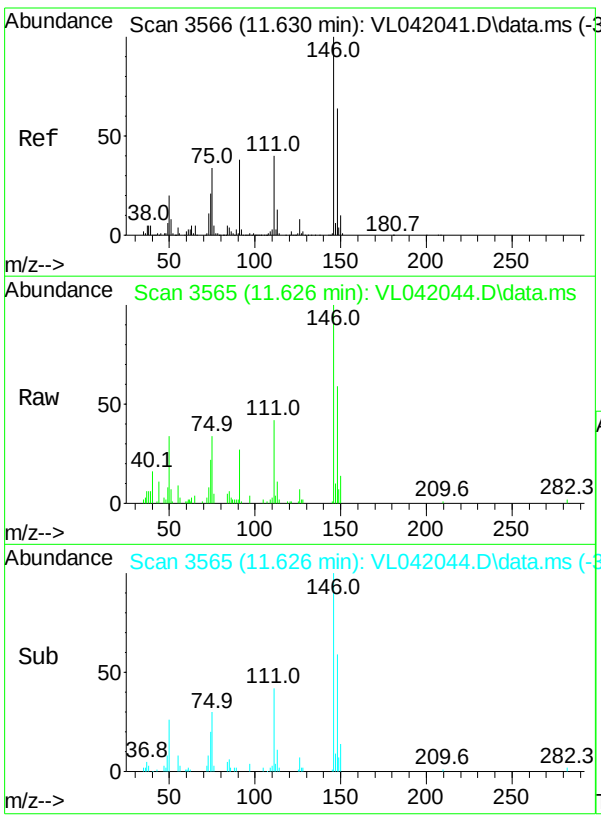
#65
tert-Butylbenzene
Concen: 0.456 ppbv
RT: 11.542 min Scan# 3
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:119 Resp: 38066

Ion	Ratio	Lower	Upper
119	100		
91	82.9	64.2	96.2
134	21.5	17.4	26.2



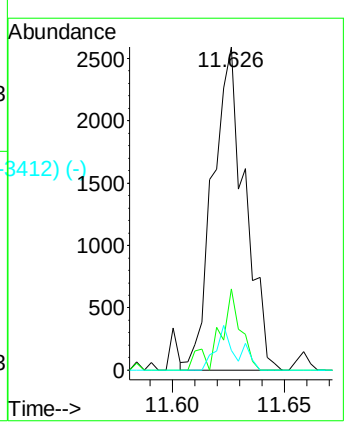
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

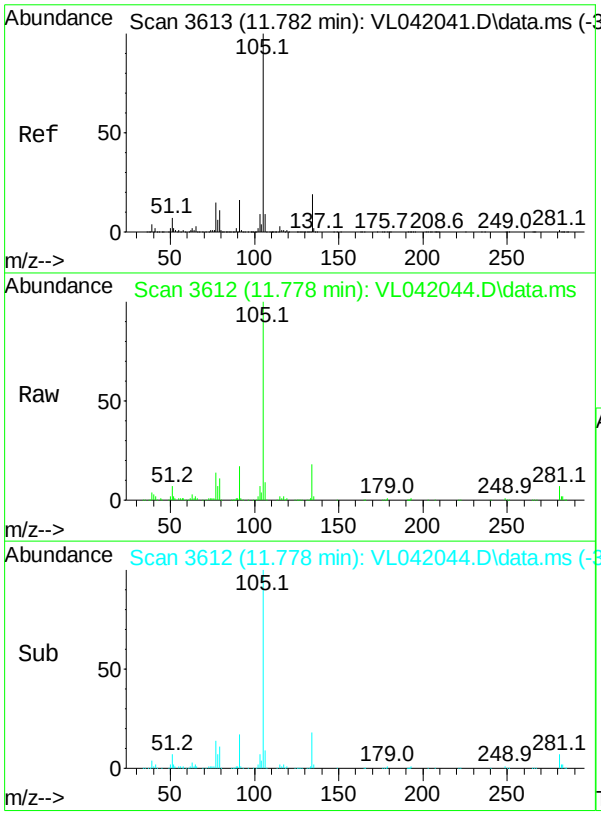


#66
Benzyl Chloride
Concen: 0.309 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 2589

Ion	Ratio	Lower	Upper
91	100		
126	16.8	14.5	21.7
128	8.7	5.4	8.2#

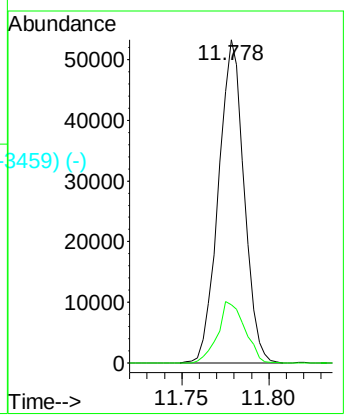




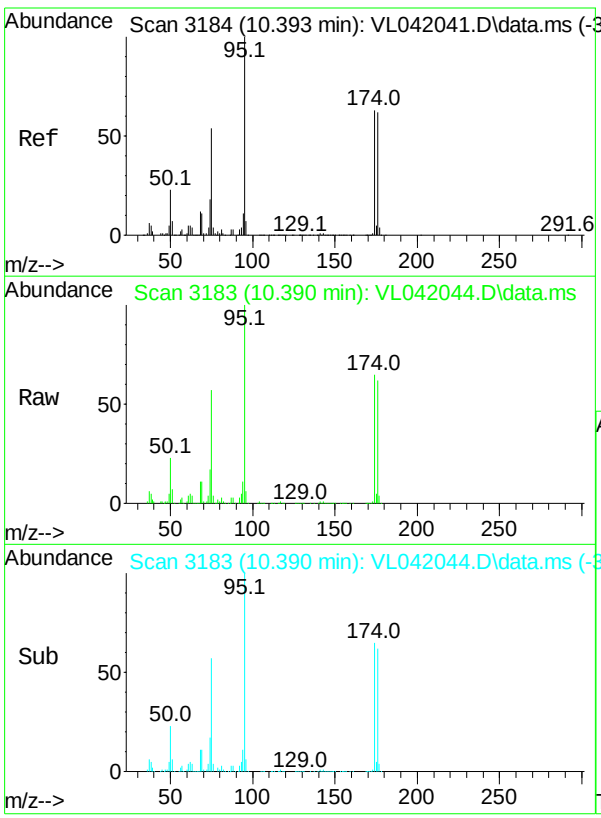
#67
sec-Butylbenzene
Concen: 0.464 ppbv
RT: 11.778 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 54394

Ion	Ratio	Lower	Upper
105	100		
134	19.9	14.9	22.3



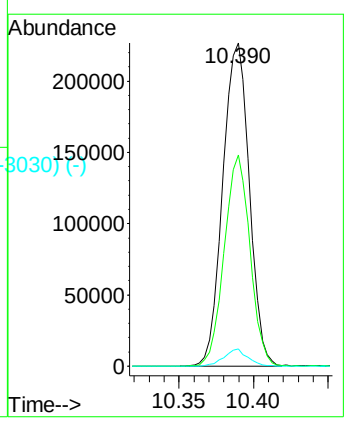
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

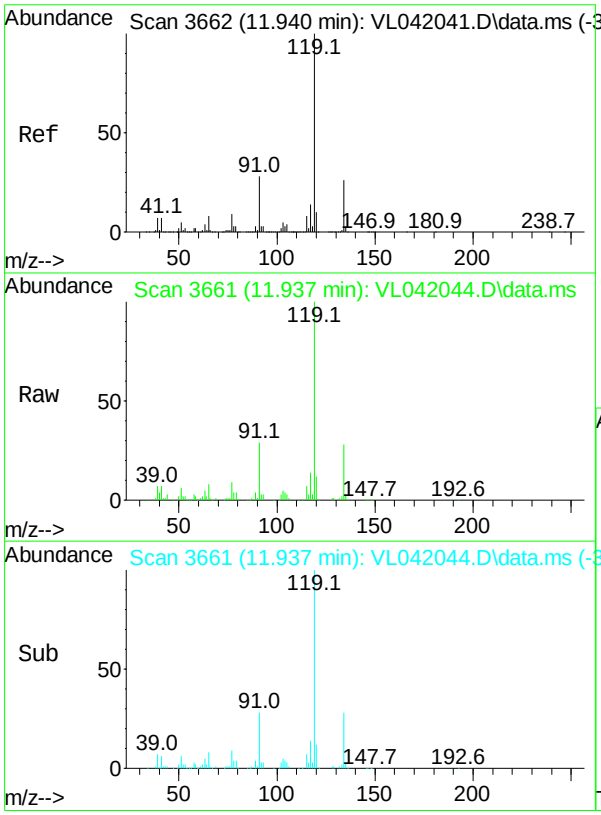


#68
1-Bromo-4-Fluorobenzene
Concen: 9.310 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 95 Resp: 281042

Ion	Ratio	Lower	Upper
95	100		
174	63.4	51.8	77.6
175	4.6	3.9	5.9

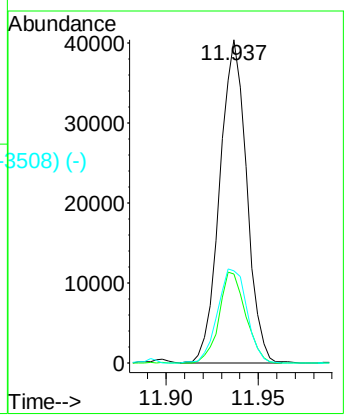




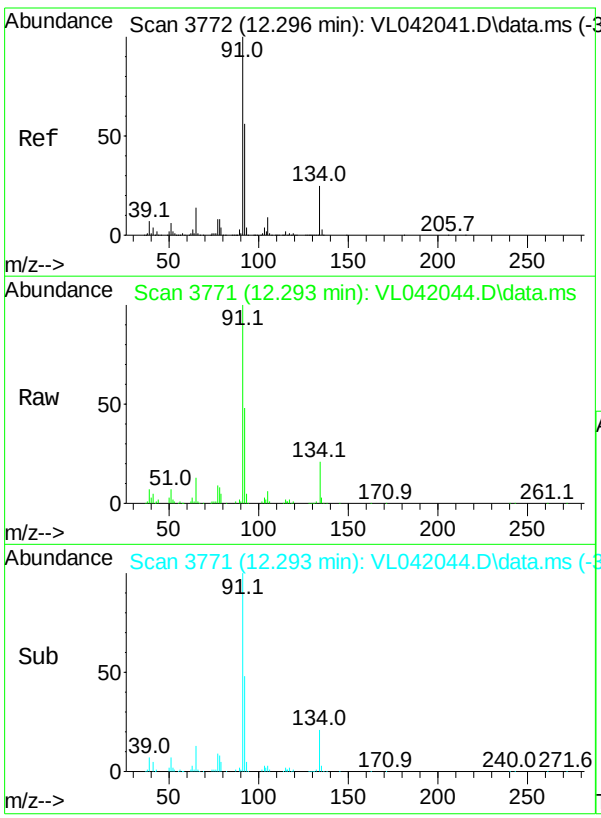
#69
p-Isopropyltoluene
Concen: 0.427 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:119 Resp: 40978

Ion	Ratio	Lower	Upper
119	100		
134	27.7	20.9	31.3
91	32.2	23.1	34.7



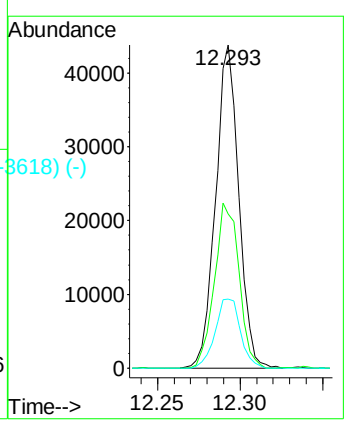
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

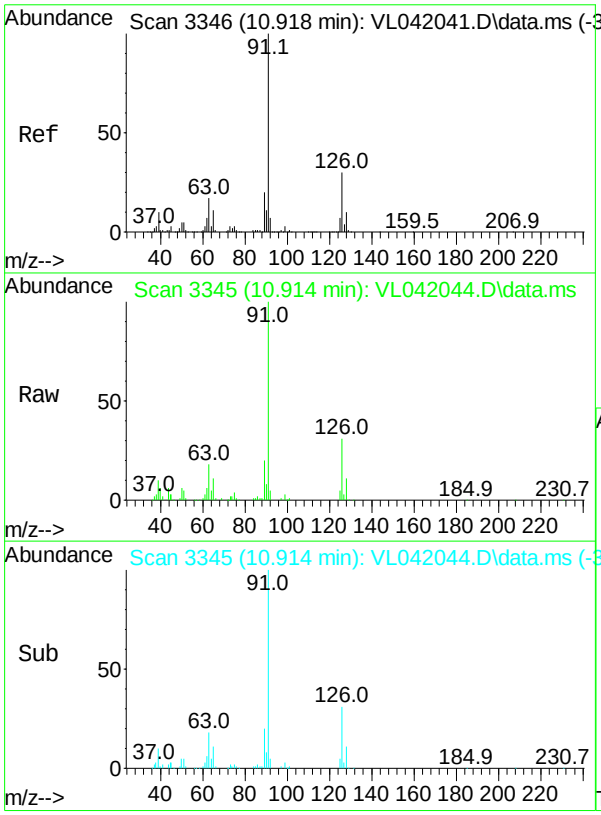


#70
n-Butylbenzene
Concen: 0.451 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 42673

Ion	Ratio	Lower	Upper
91	100		
92	54.5	44.7	67.1
134	23.5	18.9	28.3

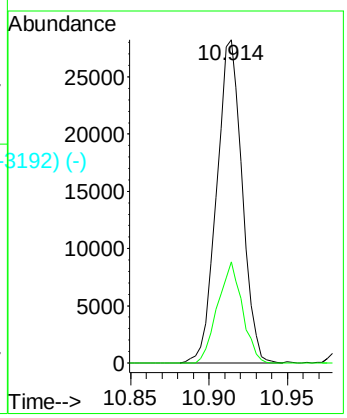


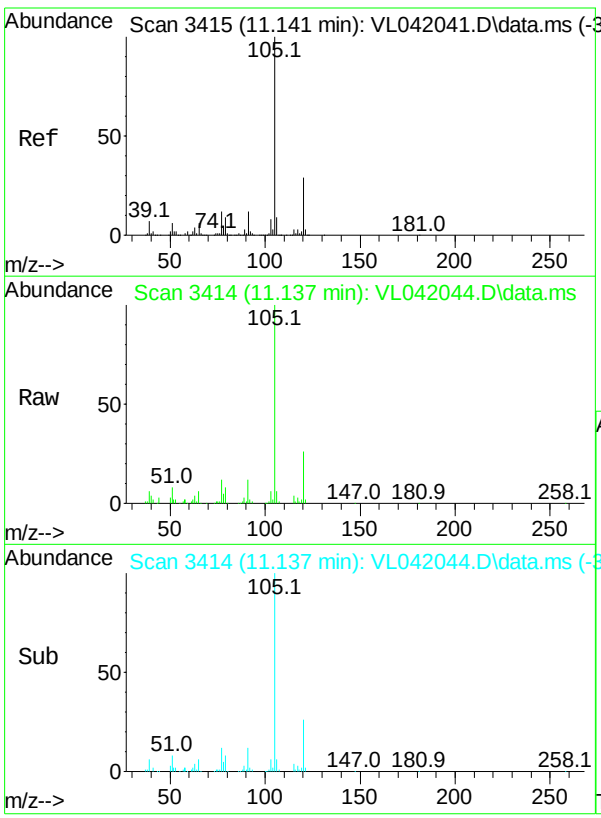


#71
2-Chlorotoluene
Concen: 0.446 ppbv
RT: 10.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion: 91 Resp: 32161

Ion	Ratio	Lower	Upper
91	100		
126	30.2	11.9	47.5

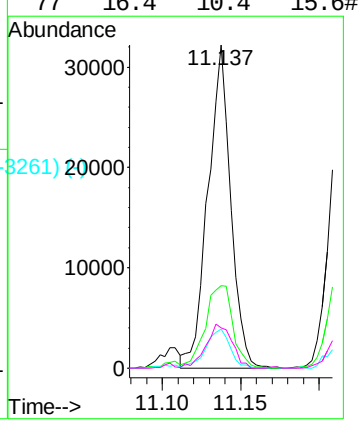




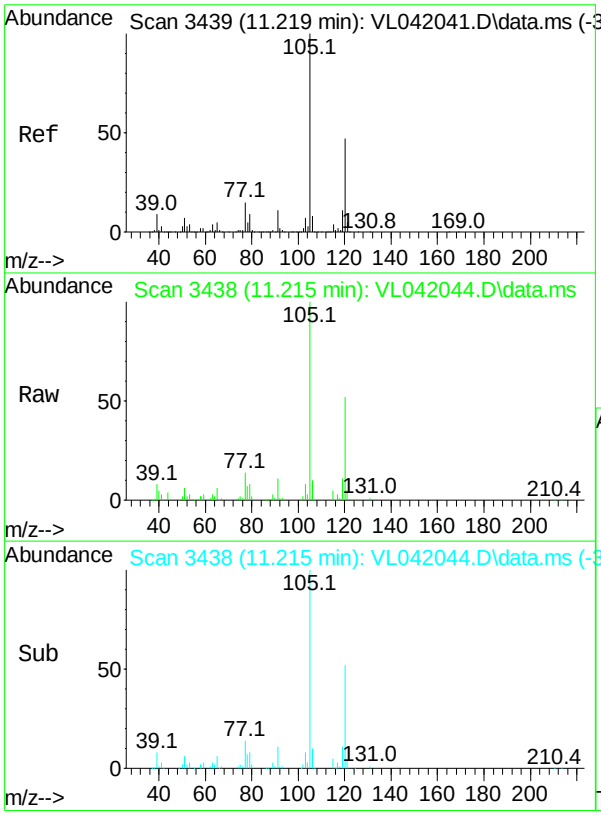
#72
4-Ethyltoluene
Concen: 0.434 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 32477

Ion	Ratio	Lower	Upper
105	100		
120	32.5	24.1	36.1
91	13.6	10.2	15.4
77	16.4	10.4	15.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

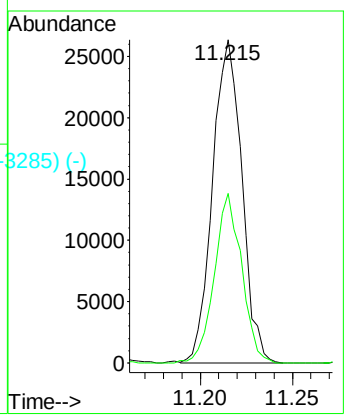


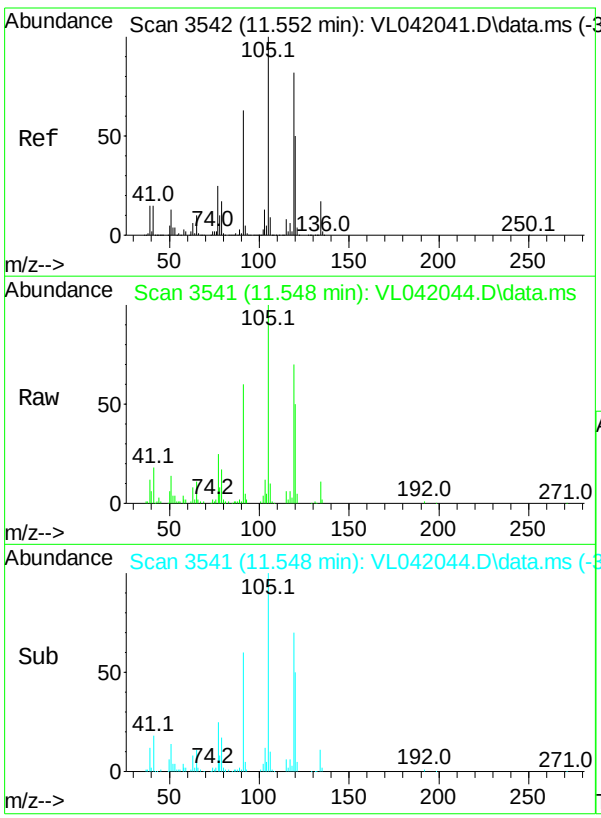
#73

1,3,5-Trimethylbenzene
Concen: 0.452 ppbv
RT: 11.215 min Scan# 3
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 29130

Ion	Ratio	Lower	Upper
105	100		
120	52.4	37.4	56.0



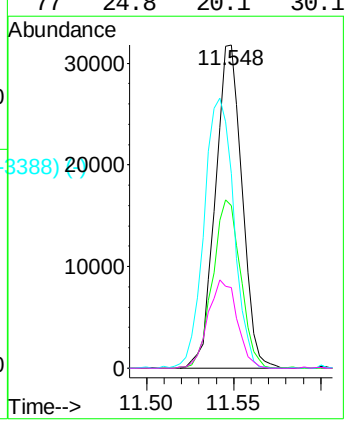


#74

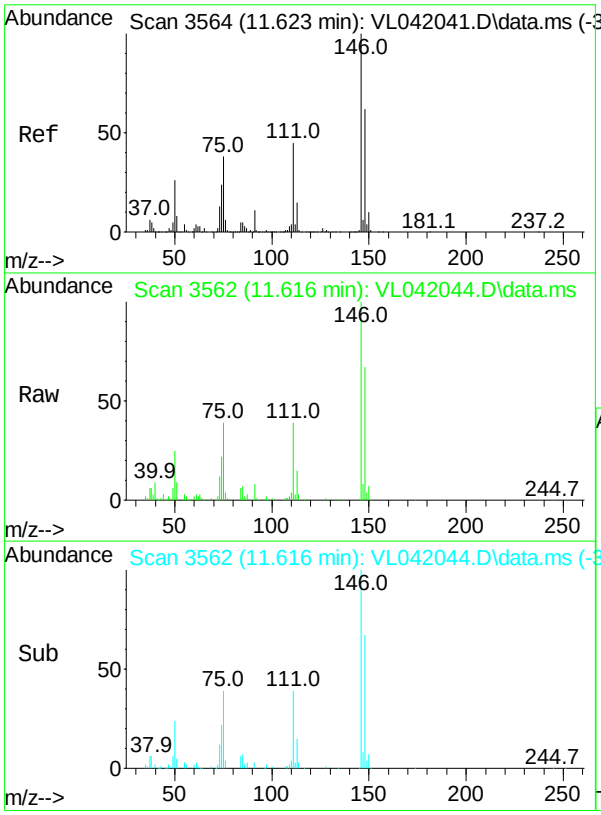
1,2,4-Trimethylbenzene
Concen: 0.491 ppbv
RT: 11.548 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:105 Resp: 33950

Ion	Ratio	Lower	Upper
105	100		
120	50.1	40.2	60.2
91	60.2	51.4	77.2
77	24.8	20.1	30.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

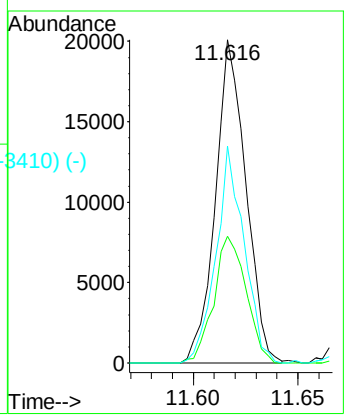


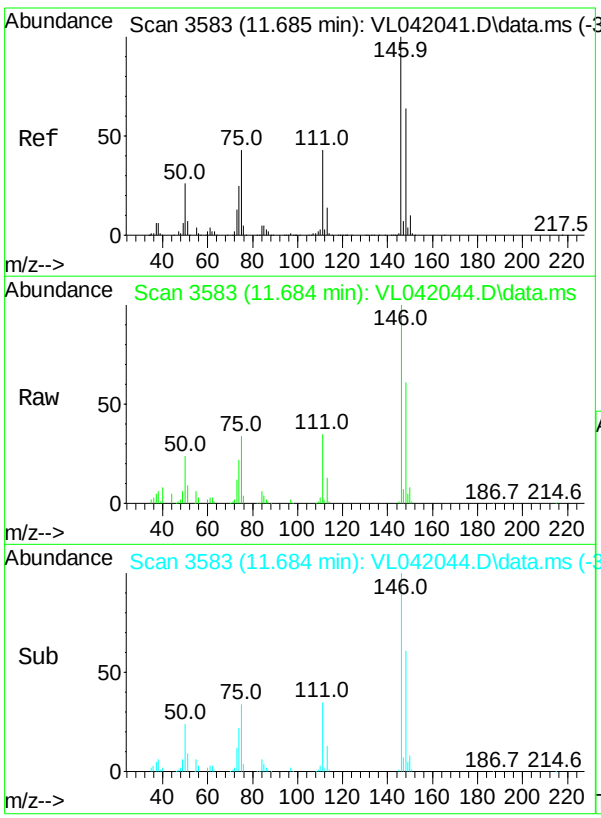
#75

1,3-Dichlorobenzene
Concen: 0.546 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.007 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:146 Resp: 20339

Ion	Ratio	Lower	Upper
146	100		
111	41.6	22.4	67.2
148	61.9	32.3	96.8



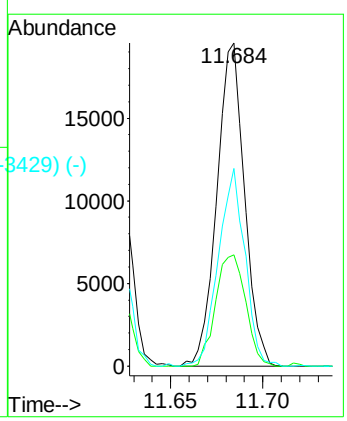


#76

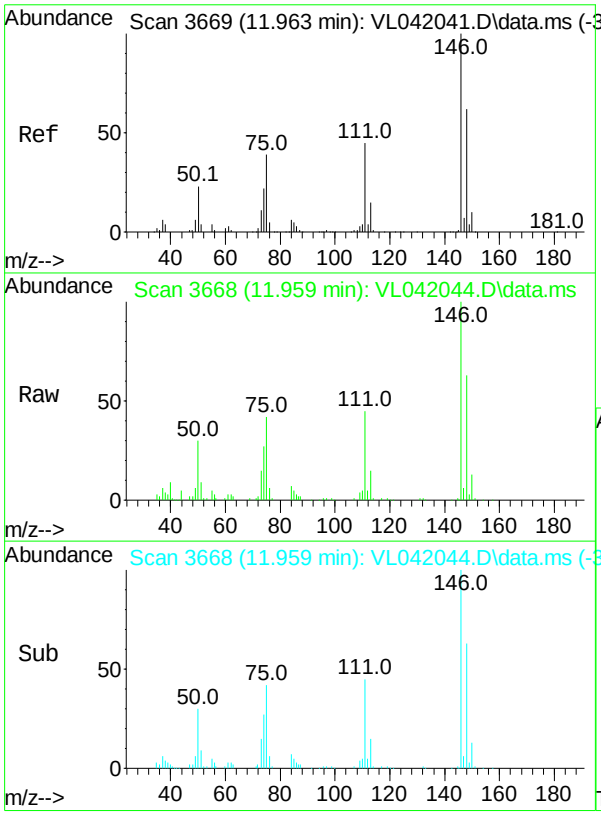
1,4-Dichlorobenzene
Concen: 0.564 ppbv
RT: 11.684 min Scan# 3583
Delta R.T. -0.000 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:146 Resp: 20492

Ion	Ratio	Lower	Upper
146	100		
111	37.7	21.5	64.5
148	58.8	31.6	95.0



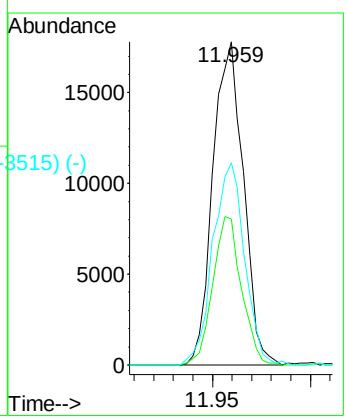
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

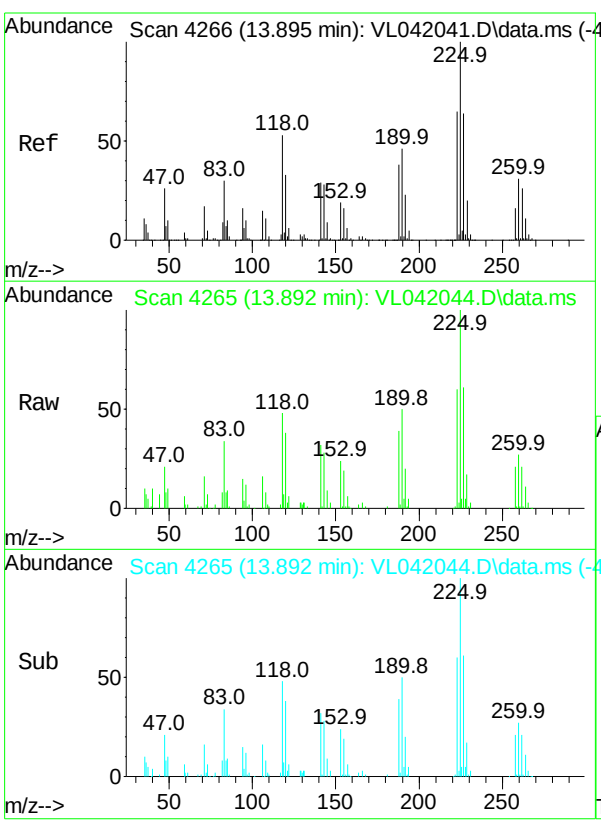


#57
1,2-Dichlorobenzene
Concen: 0.544 ppbv
RT: 11.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:146 Resp: 19373

Ion	Ratio	Lower	Upper
146	100		
111	43.0	23.2	69.6
148	65.0	31.4	94.2

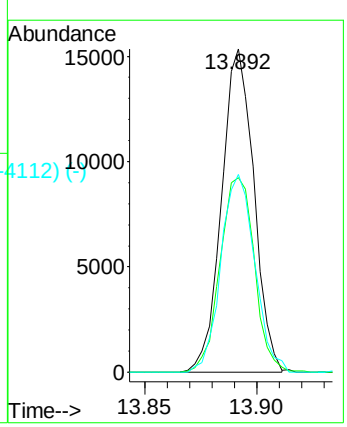




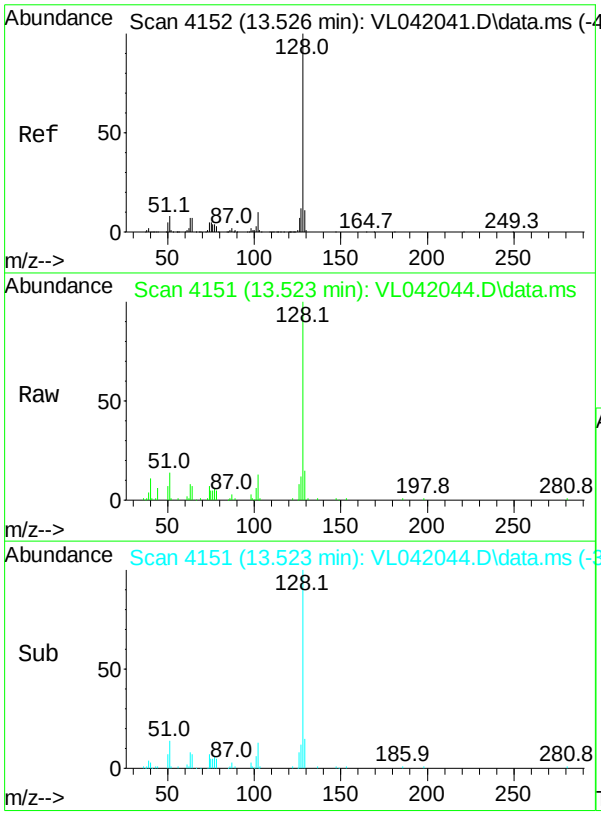
#58
Hexachloro-1,3-Butadiene
Concen: 0.522 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:225 Resp: 15367

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.2	75.2
227	64.0	50.8	76.2



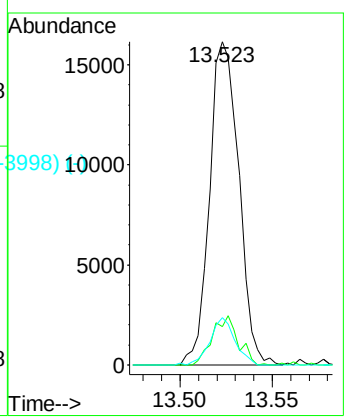
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



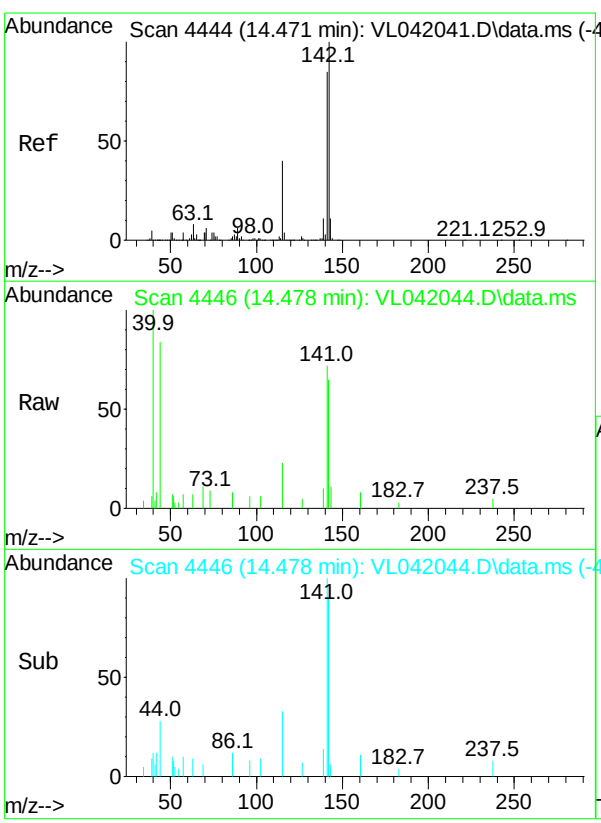
#79
Naphthalene
Concen: 0.263 ppbv
RT: 13.523 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:128 Resp: 17897

Ion	Ratio	Lower	Upper
128	100		
127	11.8	9.8	14.6
129	14.7	8.6	12.8#



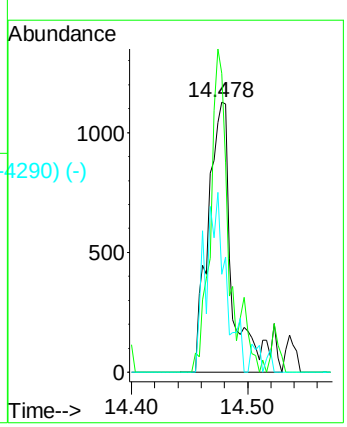
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

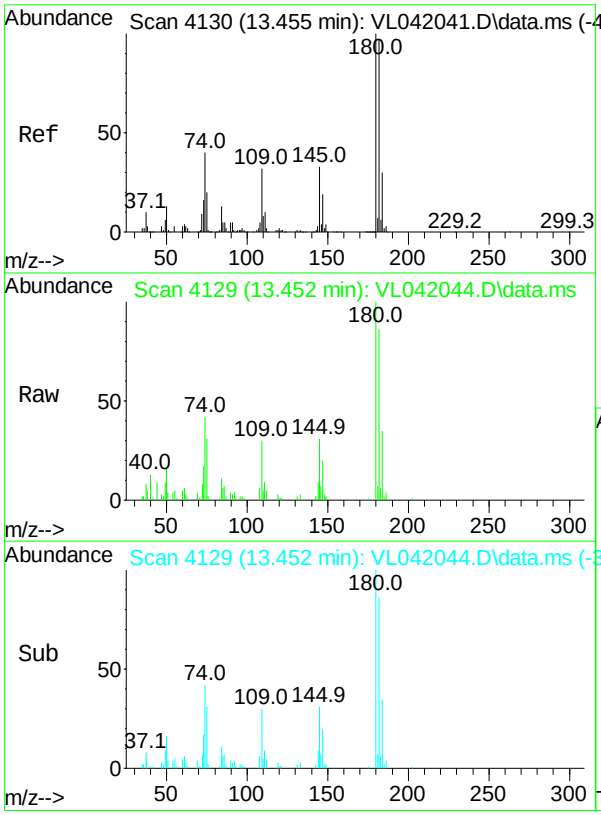


#80
Naphthalene,2-methyl-
Concen: 0.053 ppbv
RT: 14.478 min Scan# 4446
Delta R.T. 0.006 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:142 Resp: 1646

Ion	Ratio	Lower	Upper
142	100		
141	94.8	65.8	98.6
115	55.5	29.5	44.3#

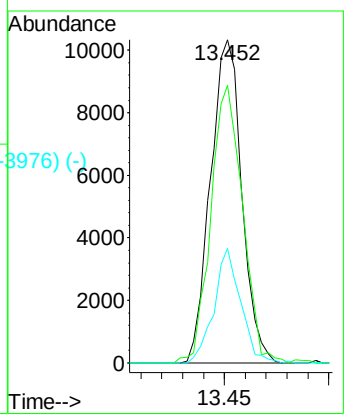




#81
1,2,4-Trichlorobenzene
Concen: 0.389 ppbv
RT: 13.452 min Scan# 4
Delta R.T. -0.004 min
Lab File: VL042044.D
Acq: 25 Feb 2025 10:31

Tgt Ion:180 Resp: 10771

Ion	Ratio	Lower	Upper
180	100		
182	87.1	75.1	112.7
184	30.2	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VSTDICC0.1

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.803	49	161406	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	414875	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.904	117	363831	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	276484	9.213	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery =	92.100%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	1771	0.064	ppbv		93
3) Chlorodifluoromethane	1.483	51	2339	0.076	ppbv		96
4) Chloromethane	1.538	50	704	0.065	ppbv	#	45
5) Vinyl Chloride	1.586	62	543	0.042	ppbv	#	88
6) Bromomethane	1.677	94	398	0.080	ppbv	#	79
7) Chloroethane	1.716	64	213	0.051	ppbv	#	67
8) Dichlorotetrafluoroethane	1.560	85	1520	0.062	ppbv		91
9) Propene	1.489	41	1402	0.106	ppbv		95
11) Trichlorofluoromethane	1.884	101	1855	0.066	ppbv		93
12) 1,1,2-Trichlorotrifluo...	2.153	101	1337	0.061	ppbv		100
13) Ethanol	1.771	45	137	0.092	ppbv	#	1
14) Bromoethene	1.790	108	581	0.071	ppbv	#	78
15) Acetone	1.845	43	3317	0.125	ppbv		99
16) 1,3-Butadiene	1.615	39	1259	0.100	ppbv	#	75
17) tert-Butyl alcohol	2.055	59	1942	0.059	ppbv	#	89
18) 1,1-Dichloroethene	2.350	96	863	0.083	ppbv		87
19) Isopropyl Alcohol	1.897	45	1375	0.092	ppbv	#	32
20) Methylene Chloride	2.075	84	1541	0.154	ppbv	#	59
21) Allyl Chloride	2.107	41	929	0.048	ppbv	#	58
22) trans-1,2-Dichloroethene	2.350	96	863	0.076	ppbv		100
23) Vinyl Acetate	2.476	43	2203	0.153	ppbv	#	50
24) 1,1-Dichloroethane	2.418	63	1398	0.061	ppbv	#	87
25) Ethyl Acetate	2.861	43	6037	0.083	ppbv	#	90
26) Hexane	2.839	57	2417	0.082	ppbv	#	87
27) Carbon Disulfide	2.162	76	1691	0.061	ppbv	#	1
28) Methyl tert-Butyl Ether	2.457	73	1475	0.082	ppbv		92
29) Chloroform	2.865	83	3264	0.077	ppbv		96
30) Cyclohexane	3.881	84	1421	0.060	ppbv	#	22
31) cis-1,2-Dichloroethene	2.732	61	1328	0.046	ppbv	#	85
32) 1,1,1-Trichloroethane	3.386	97	3026	0.064	ppbv	#	86
34) 2-Butanone	2.577	43	4167	0.117	ppbv		100
35) Carbon Tetrachloride	3.787	117	2571	0.064	ppbv	#	85
36) Benzene	3.674	78	2614	0.052	ppbv	#	83
37) 1,2-Dichloroethane	3.237	62	2734	0.096	ppbv		98
38) Trichloroethene	4.577	130	1585	0.078	ppbv	#	44
39) 1,2-Dichloropropane	3.981	63	106722	5.792	ppbv	#	23
41) Tetrahydrofuran	3.088	42	2150	0.105	ppbv	#	63
42) Bromodichloromethane	4.515	83	2370	0.061	ppbv	#	59
43) Methyl Methacrylate	4.917	69	1045	0.046	ppbv	#	10
44) 2,2,4-Trimethylpentane	4.667	57	3926	0.046	ppbv	#	31

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VSTDICC0.1

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	976	0.036	ppbv	#	62
48) Dibromochloromethane	7.415	129	1445	0.044	ppbv	#	23
49) Bromoform	9.506	173	1684	0.063	ppbv	#	79
53) Toluene	6.969	91	1861	0.031	ppbv	#	1
54) 1,2-Dibromoethane	7.684	107	915	0.034	ppbv	#	66
56) 1,1,1,2-Tetrachloroethane	8.943	131	1438	0.055	ppbv	#	8
57) Chlorobenzene	8.946	112	3915	0.091	ppbv	#	90
59) m/p-Xylene	9.558	91	1903	0.030	ppbv	#	100
60) o-Xylene	9.982	91	4981	0.079	ppbv		95
61) Styrene	9.891	104	1689	0.056	ppbv	#	76
62) Isopropylbenzene	10.555	105	7453	0.078	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.982	83	2654	0.065	ppbv	#	66
64) n-propylbenzene	11.005	120	2092	0.089	ppbv		95
65) tert-Butylbenzene	11.549	119	7279	0.088	ppbv		95
66) Benzyl Chloride	11.626	91	260	0.031	ppbv	#	65
67) sec-Butylbenzene	11.782	105	9708	0.083	ppbv		98
69) p-Isopropyltoluene	11.940	119	6937	0.073	ppbv		97
70) n-Butylbenzene	12.299	91	6704	0.071	ppbv		93
71) 2-Chlorotoluene	10.921	91	6558	0.091	ppbv		96
72) 4-Ethyltoluene	11.141	105	5948	0.080	ppbv	#	96
73) 1,3,5-Trimethylbenzene	11.222	105	5175	0.081	ppbv	#	80
74) 1,2,4-Trimethylbenzene	11.552	105	5323	0.077	ppbv	#	91
75) 1,3-Dichlorobenzene	11.623	146	2662	0.072	ppbv		71
76) 1,4-Dichlorobenzene	11.691	146	3477	0.096	ppbv		98
77) 1,2-Dichlorobenzene	11.969	146	3344	0.094	ppbv		95
78) Hexachloro-1,3-Butadiene	13.895	225	2487	0.085	ppbv	#	84
79) Naphthalene	13.529	128	3058	0.045	ppbv	#	91
81) 1,2,4-Trichlorobenzene	13.455	180	1262	0.046	ppbv	#	86

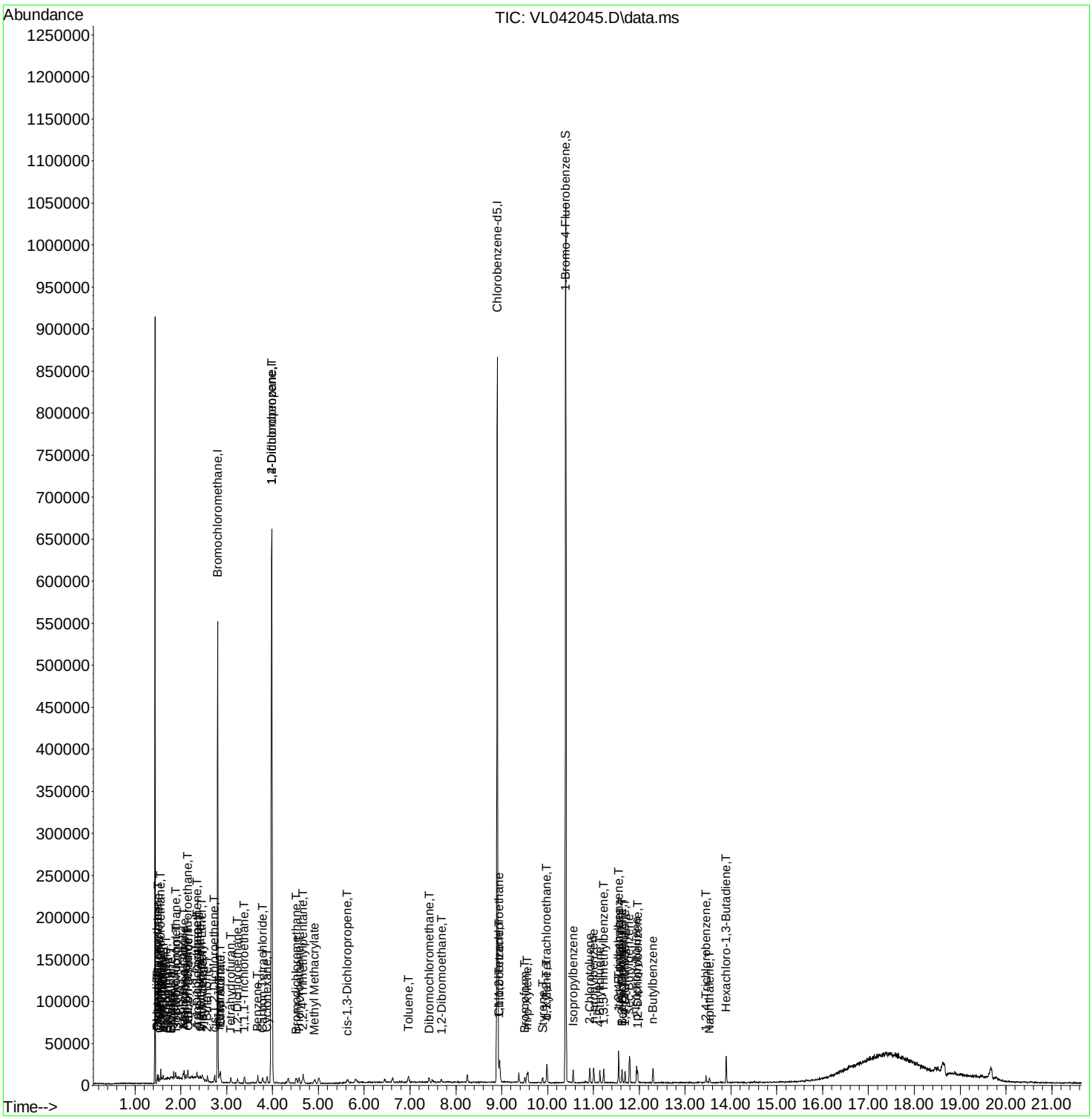
(#) = qualifier out of range (m) = manual integration (+) = signals summed

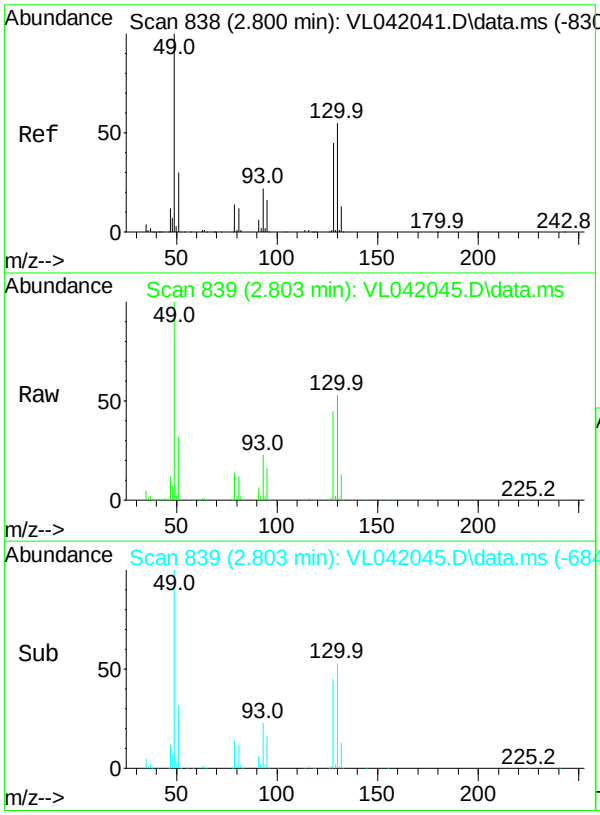
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

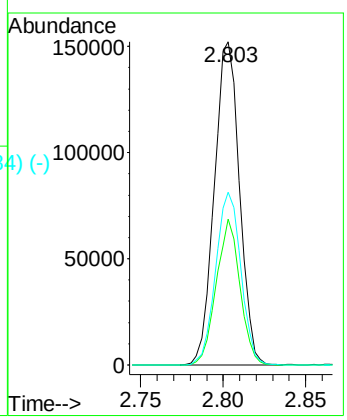




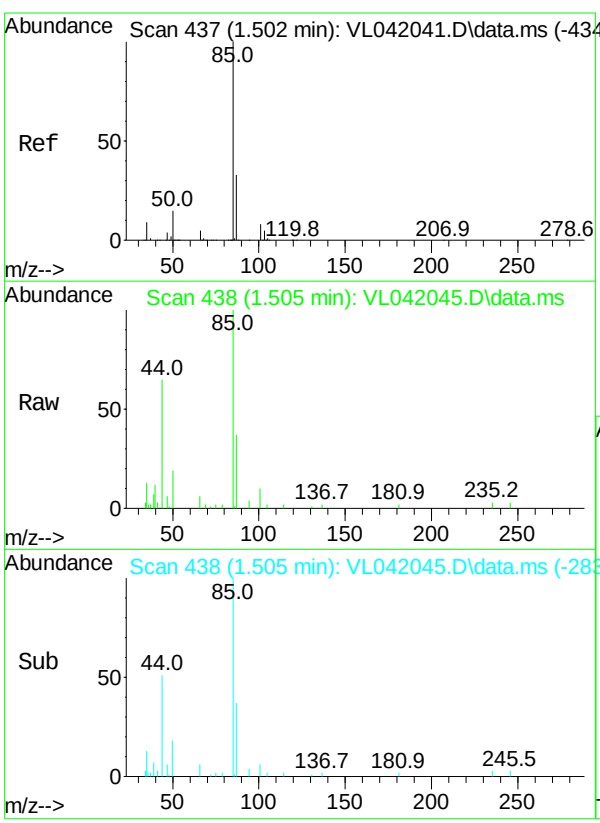
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 49 Resp: 161406

Ion	Ratio	Lower	Upper
49	100		
128	42.3	21.6	64.8
130	53.5	27.8	83.4



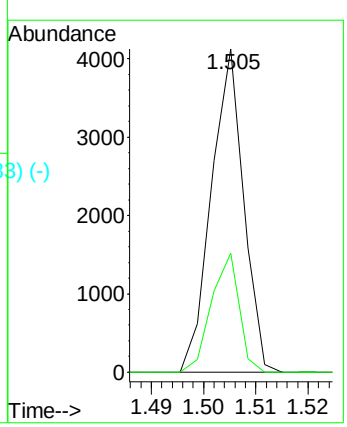
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

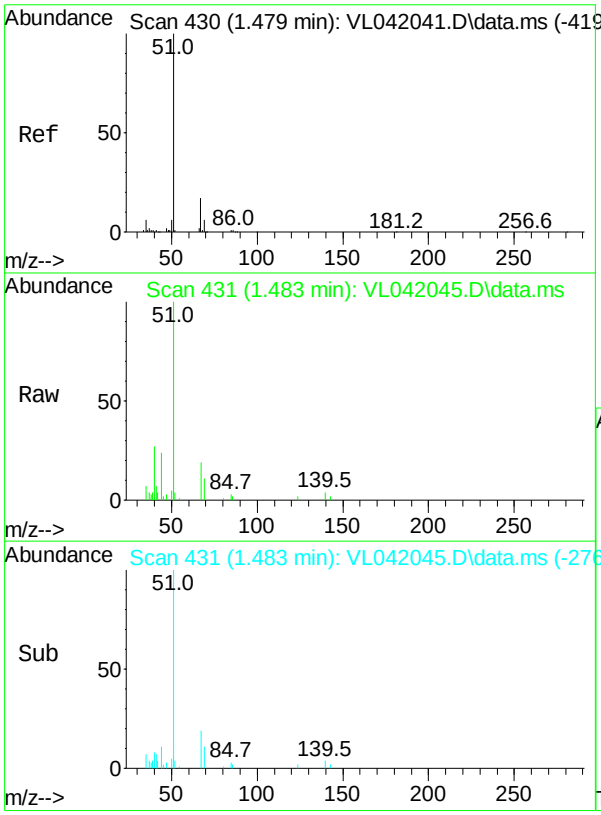


#2
Dichlorodifluoromethane
Concen: 0.064 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 85 Resp: 1771

Ion	Ratio	Lower	Upper
85	100		
87	36.9	26.4	39.6



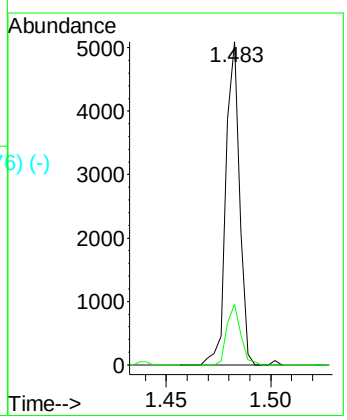


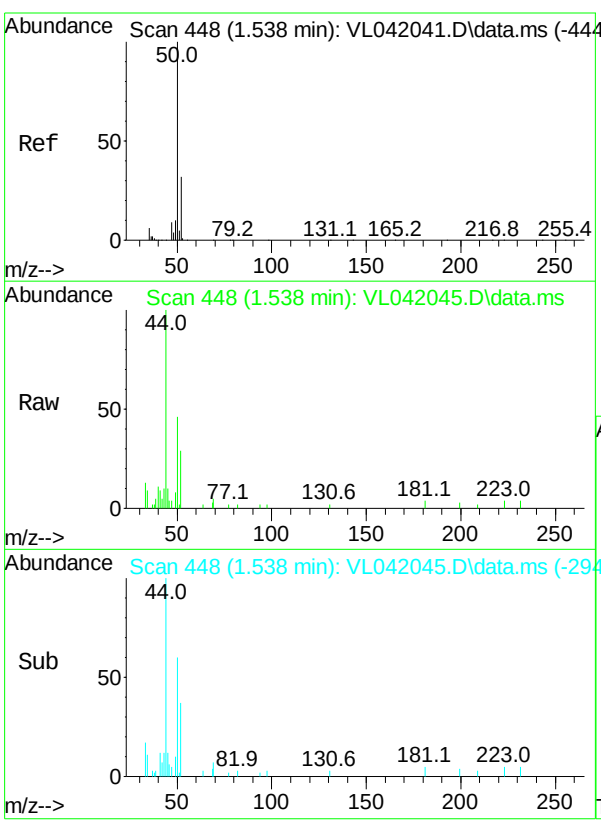
#3
Chlorodifluoromethane
Concen: 0.076 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 51 Resp: 2339

Ion	Ratio	Lower	Upper
51	100		
67	19.0	13.7	20.5

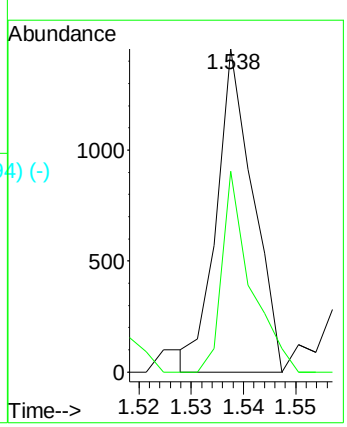


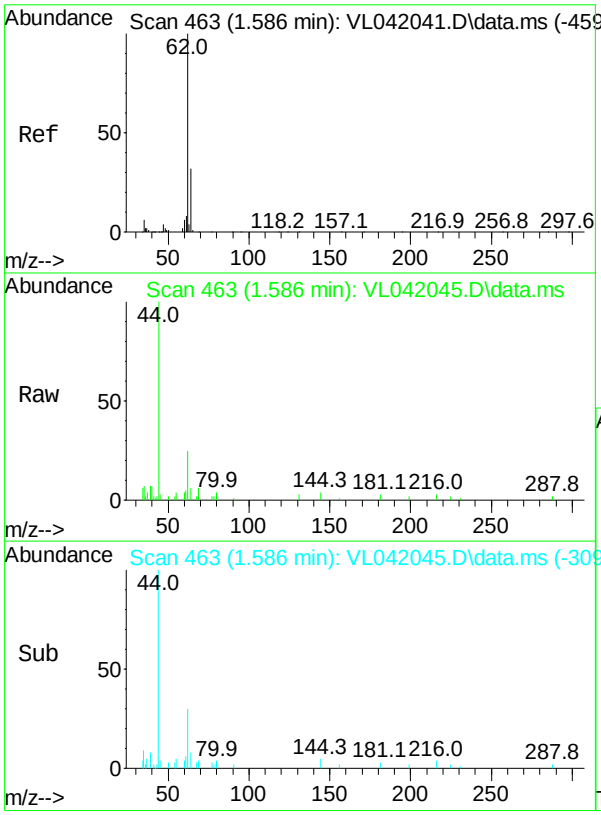


#4
Chloromethane
Concen: 0.065 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 50 Resp: 704

Ion	Ratio	Lower	Upper
50	100		
52	62.2	25.4	38.0#

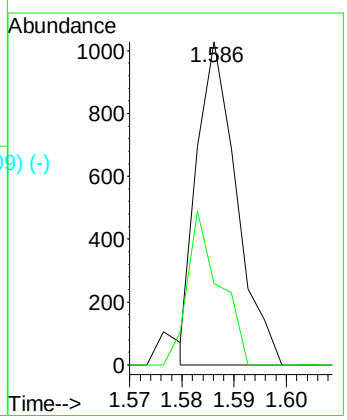


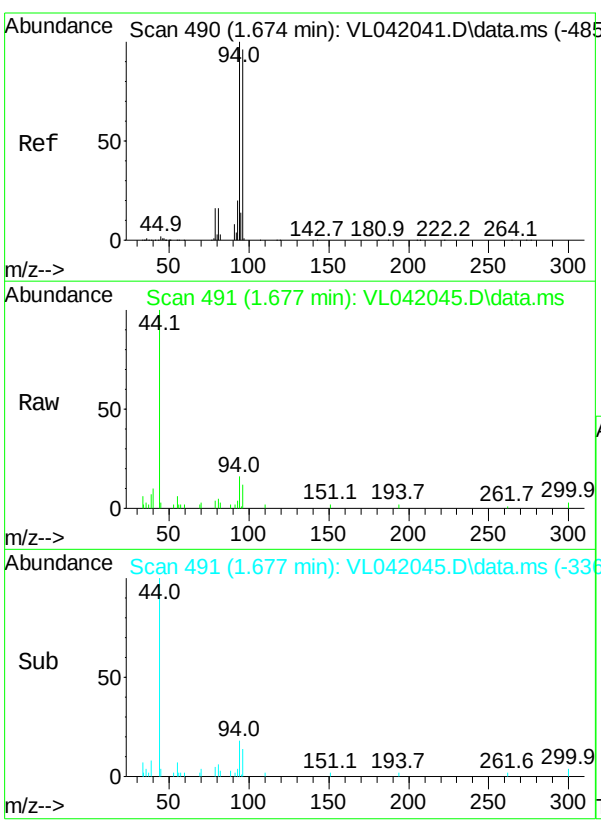


#5
Vinyl Chloride
Concen: 0.042 ppbv
RT: 1.586 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 62 Resp: 543

Ion	Ratio	Lower	Upper
62	100		
64	25.2	25.3	37.9#

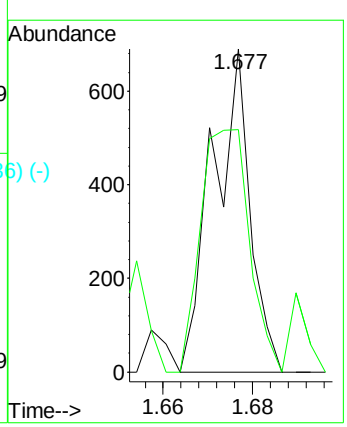




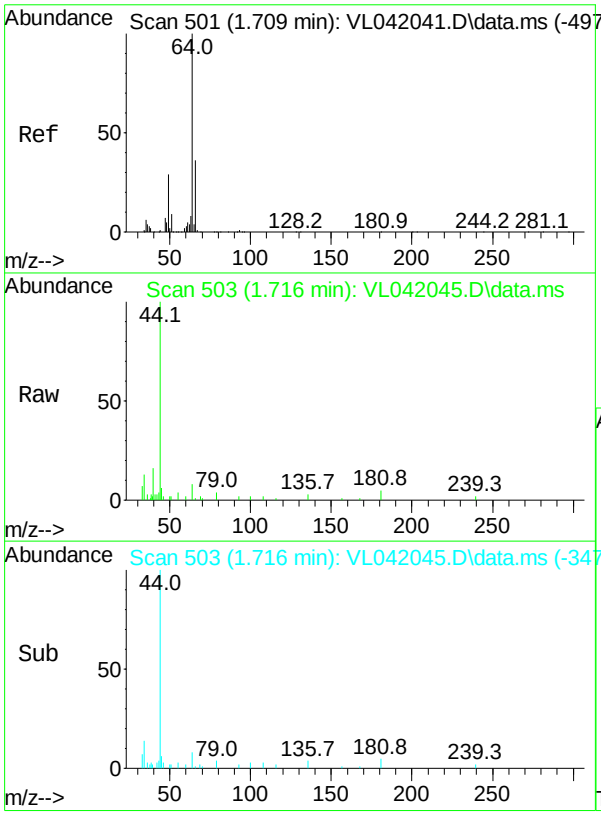
#6
Bromomethane
Concen: 0.080 ppbv
RT: 1.677 min Scan# 491
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 94 Resp: 398

Ion	Ratio	Lower	Upper
94	100		
96	75.1	76.5	114.7#



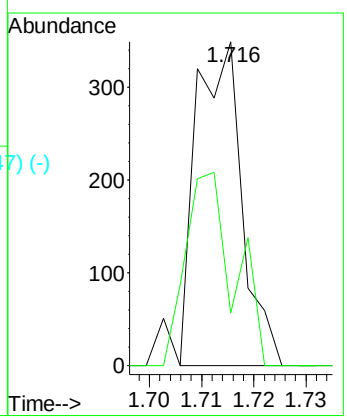
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

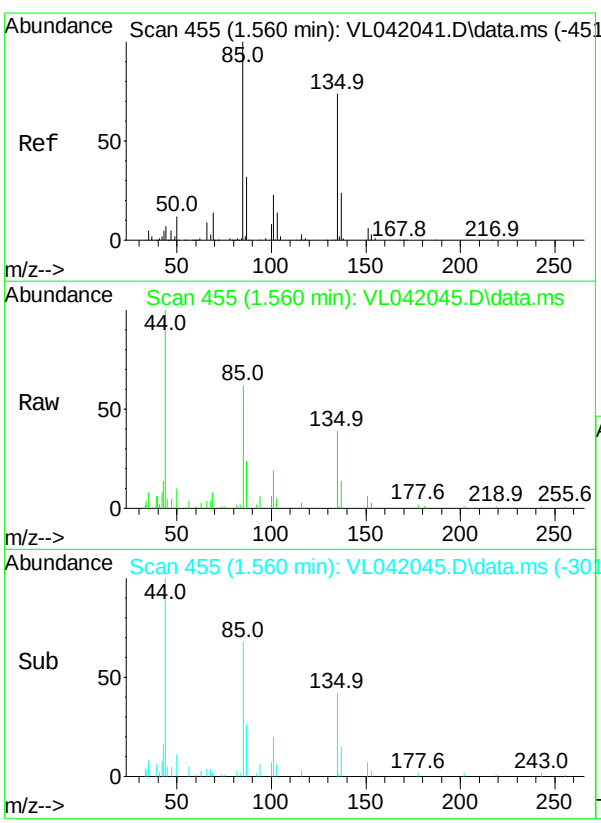


#7
Chloroethane
Concen: 0.051 ppbv
RT: 1.716 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 64 Resp: 213

Ion	Ratio	Lower	Upper
64	100		
66	16.0	28.4	42.6#

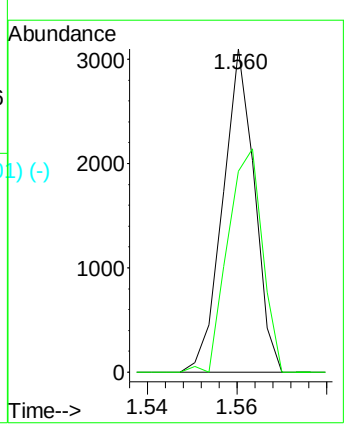




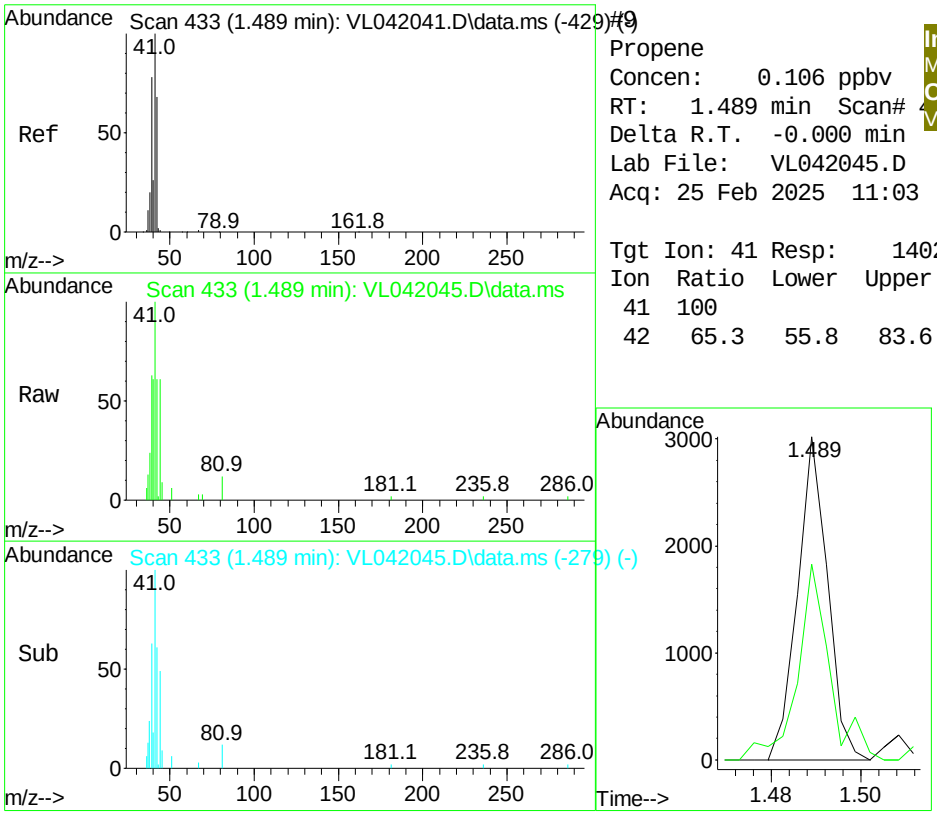
#8
Dichlorotetrafluoroethane
Concen: 0.062 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 85 Resp: 1520

Ion	Ratio	Lower	Upper
85	100		
135	75.3	54.6	81.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

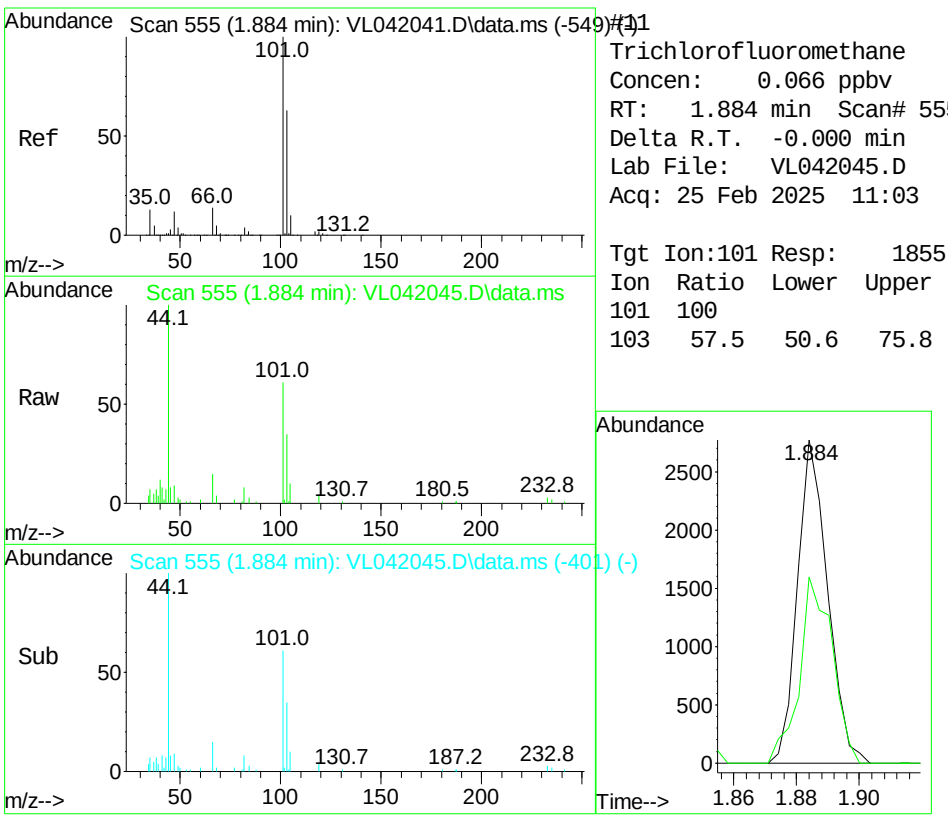


#9
Propene
Concen: 0.106 ppbv
RT: 1.489 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 41 Resp: 1402

Ion	Ratio	Lower	Upper
41	100		
42	65.3	55.8	83.6

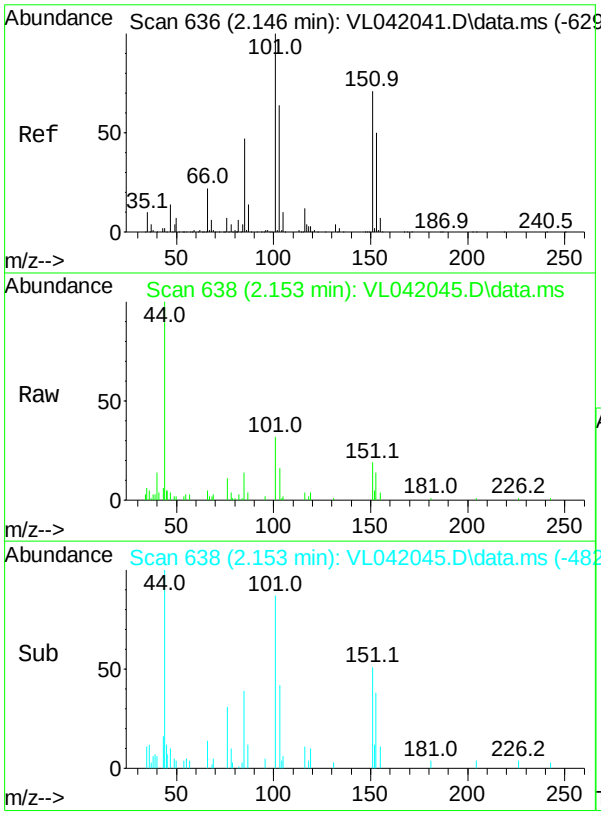
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



#11
Trichlorofluoromethane
Concen: 0.066 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:101 Resp: 1855

Ion	Ratio	Lower	Upper
101	100		
103	57.5	50.6	75.8

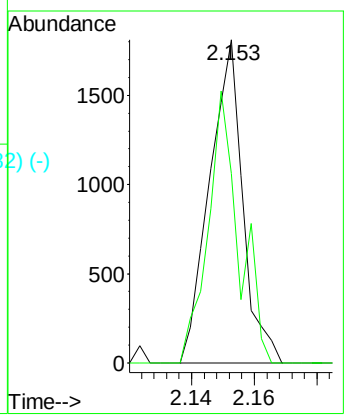


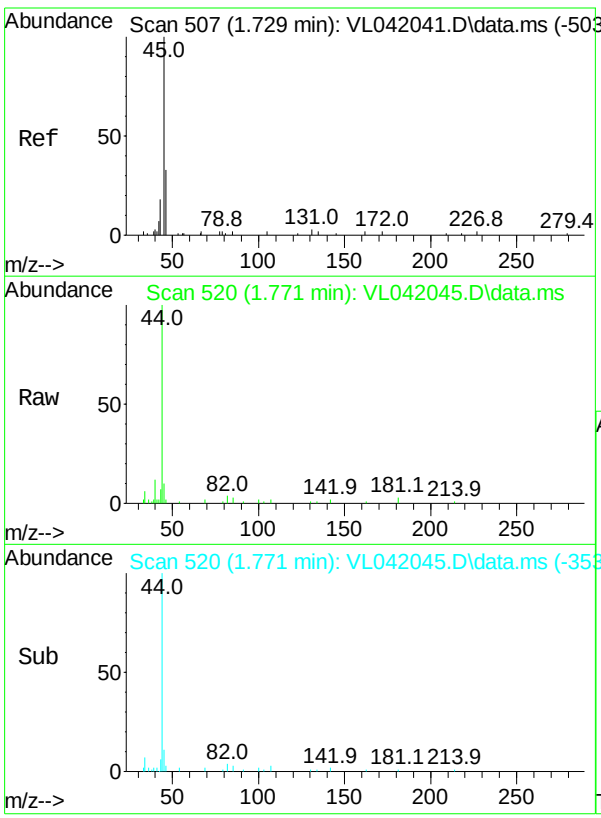
#12
1,1,2-Trichlorotrifluor
Concen: 0.061 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:101 Resp: 1337

Ion	Ratio	Lower	Upper
101	100		
151	78.1	62.6	94.0

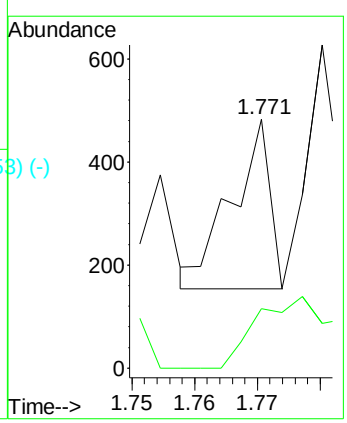


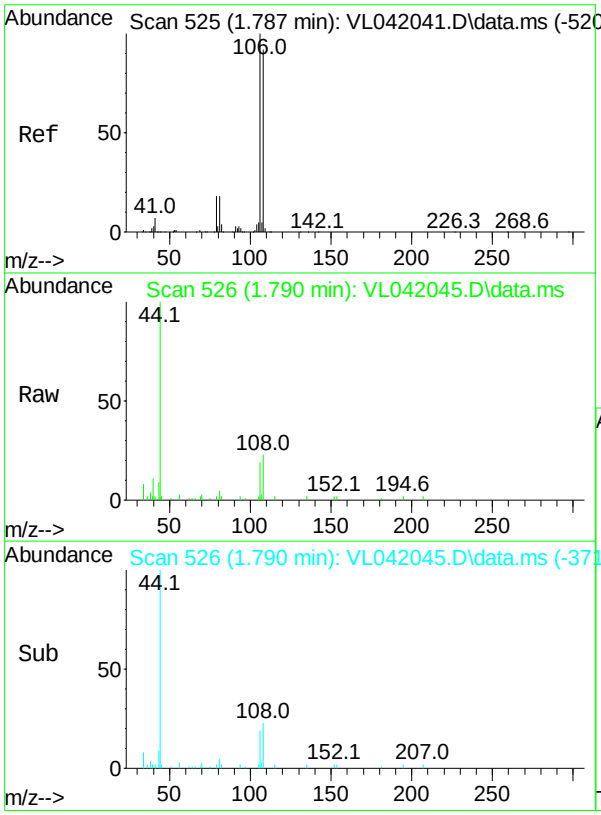


#13
Ethanol
Concen: 0.092 ppbv
RT: 1.771 min Scan# 520
Delta R.T. 0.042 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 45 Resp: 137

Ion	Ratio	Lower	Upper
45	100		
46	175.9	17.1	68.3#

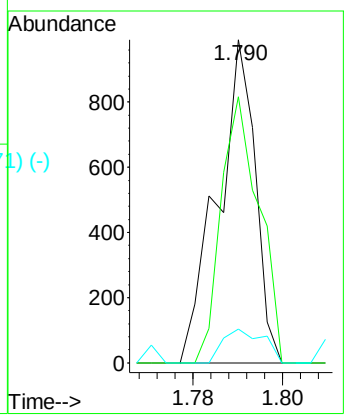


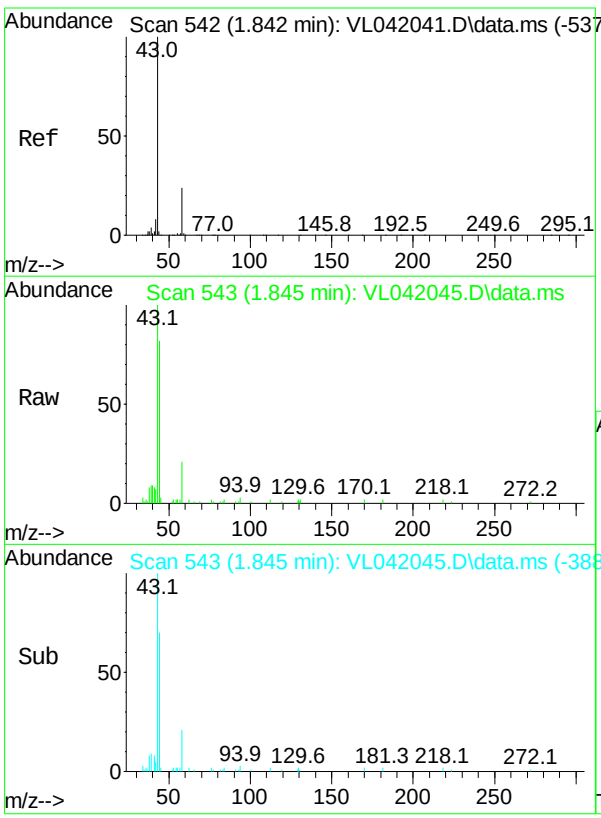


#14
Bromoethene
Concen: 0.071 ppbv
RT: 1.790 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:108 Resp: 581

Ion	Ratio	Lower	Upper
108	100		
106	82.1	85.4	128.0#
79	15.7	16.5	24.7#

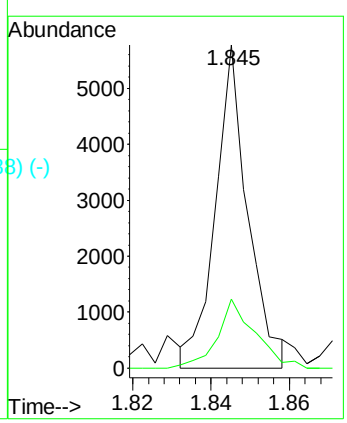




#15
Acetone
Concen: 0.125 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

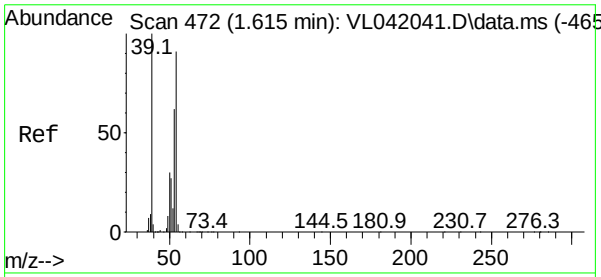
Tgt Ion: 43 Resp: 3317

Ion	Ratio	Lower	Upper
43	100		
58	26.4	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

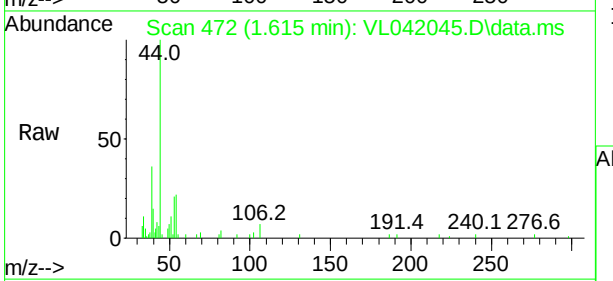
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

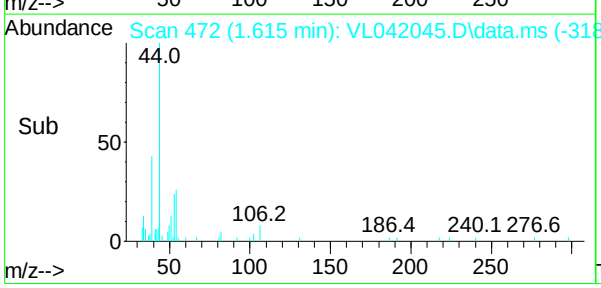


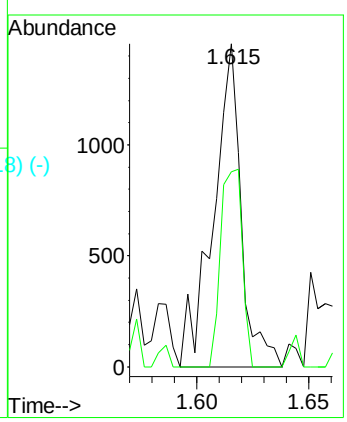
#16
1,3-Butadiene
Concen: 0.100 ppbv
RT: 1.615 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

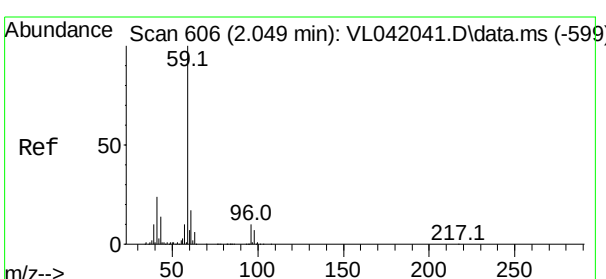
Tgt Ion: 39 Resp: 1259

Ion	Ratio	Lower	Upper
39	100		
54	53.1	59.6	89.4#





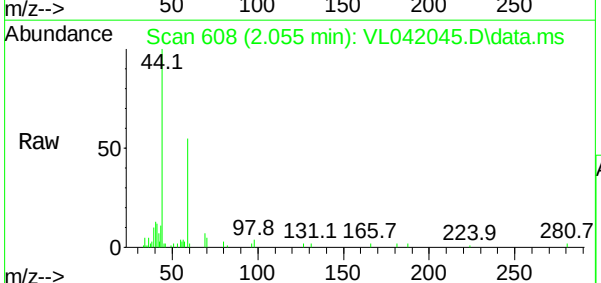


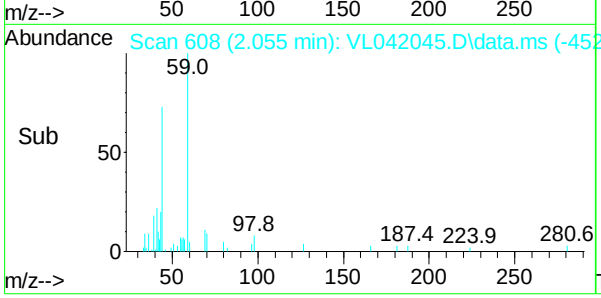


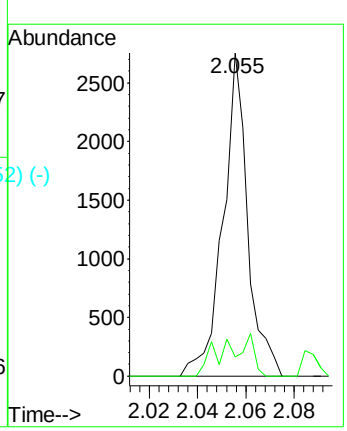
#17
tert-Butyl alcohol
Concen: 0.059 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

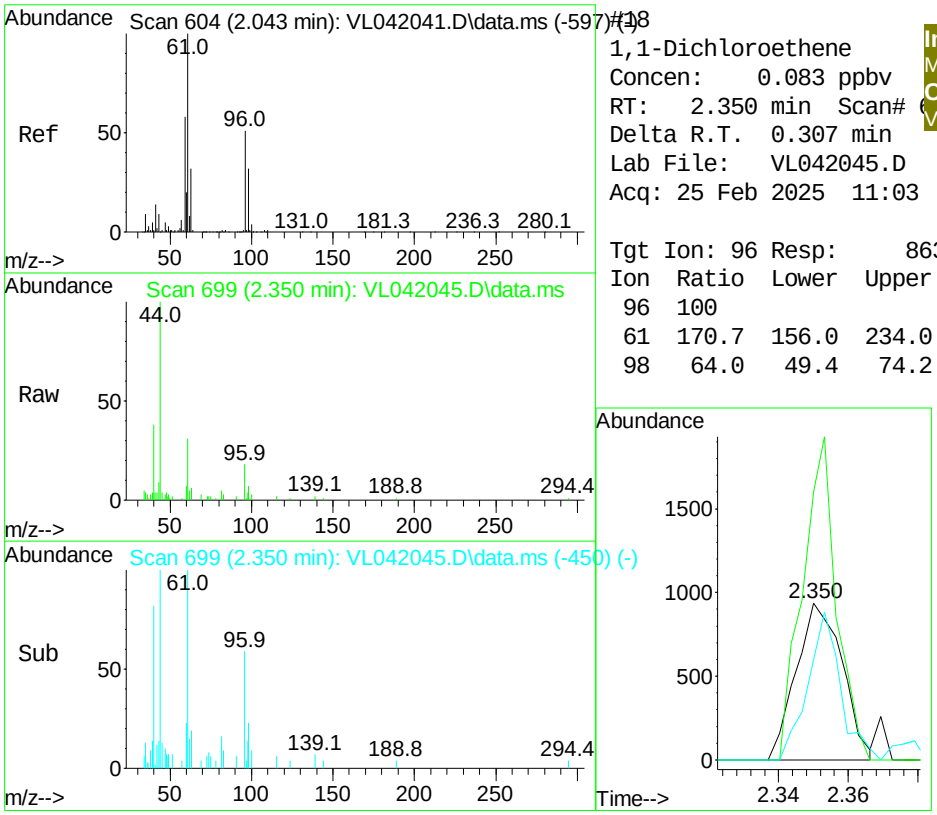
Tgt Ion: 59 Resp: 1942

Ion	Ratio	Lower	Upper
59	100		
57	15.9	9.3	13.9#







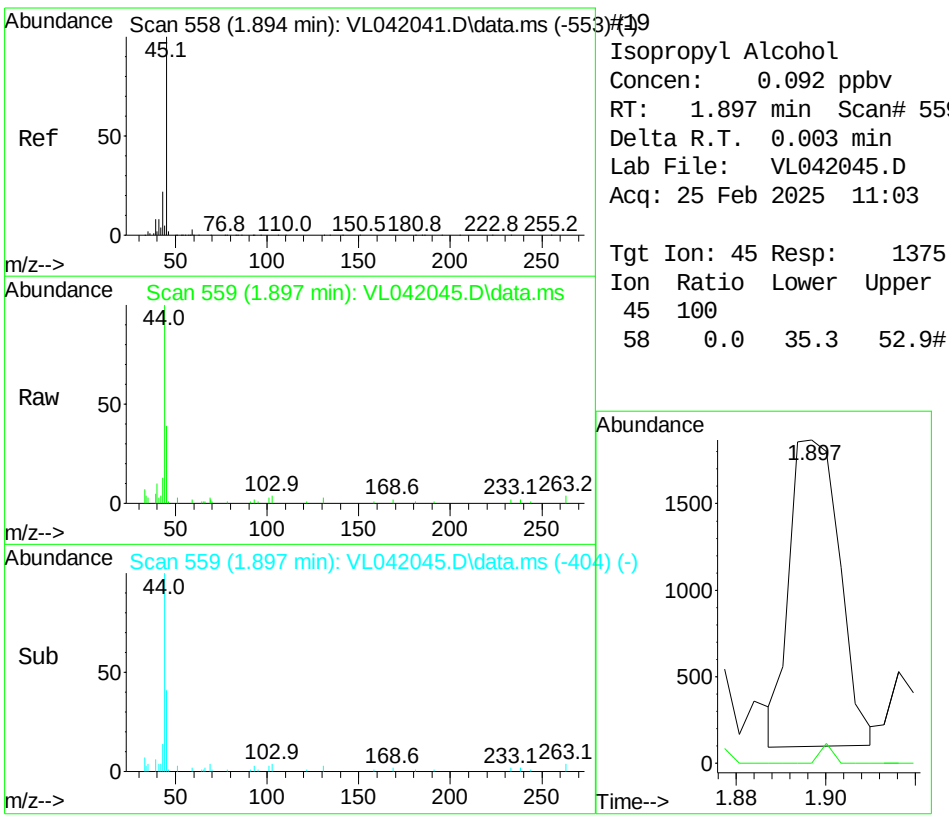


#18
1,1-Dichloroethene
Concen: 0.083 ppbv
RT: 2.350 min Scan# 6
Delta R.T. 0.307 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 96 Resp: 863

Ion	Ratio	Lower	Upper
96	100		
61	170.7	156.0	234.0
98	64.0	49.4	74.2

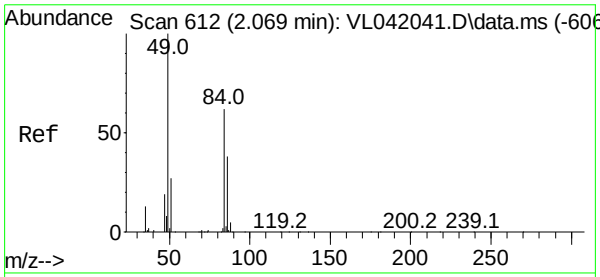


#19
Isopropyl Alcohol
Concen: 0.092 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 45 Resp: 1375

Ion	Ratio	Lower	Upper
45	100		
58	0.0	35.3	52.9#

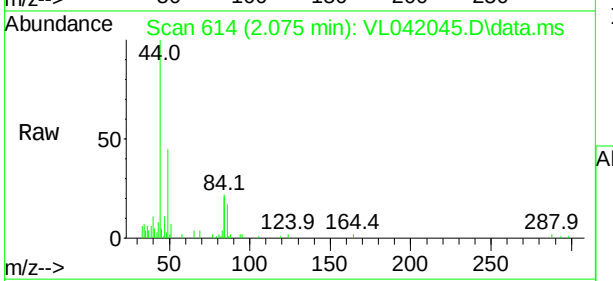
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

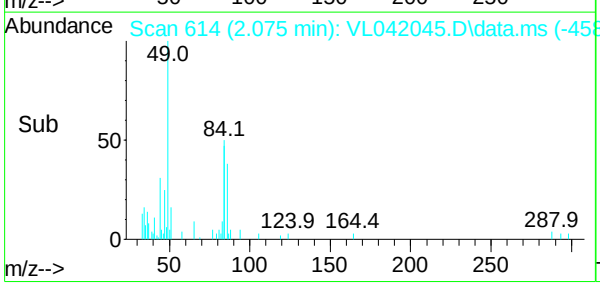


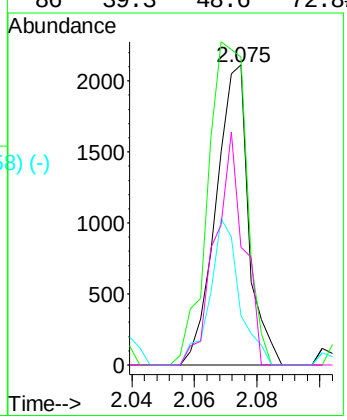
#20
Methylene Chloride
Concen: 0.154 ppbv
RT: 2.075 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

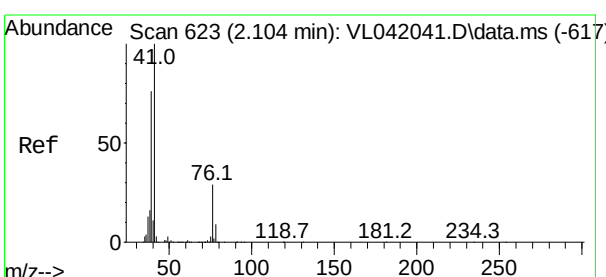
Tgt Ion: 84 Resp: 1541

Ion	Ratio	Lower	Upper
84	100		
49	102.7	130.0	195.0#
51	16.4	37.4	56.0#
86	39.3	48.6	72.8#





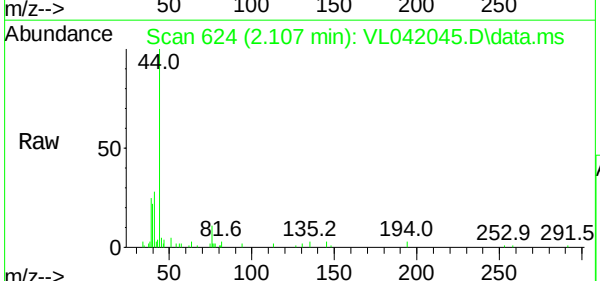


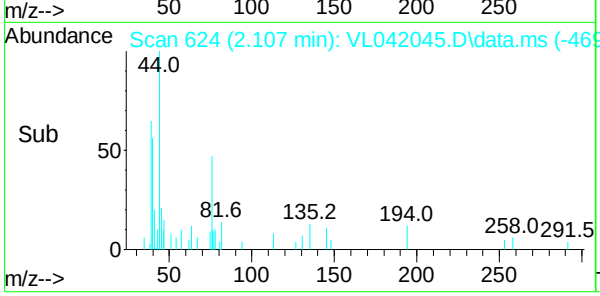


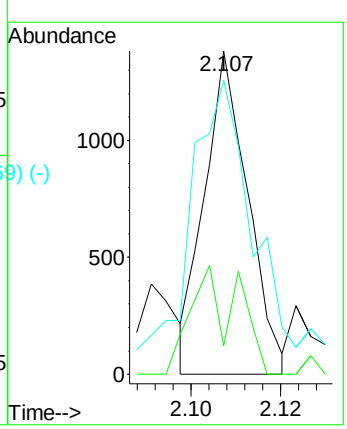
#21
Allyl Chloride
Concen: 0.048 ppbv
RT: 2.107 min Scan# 624
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

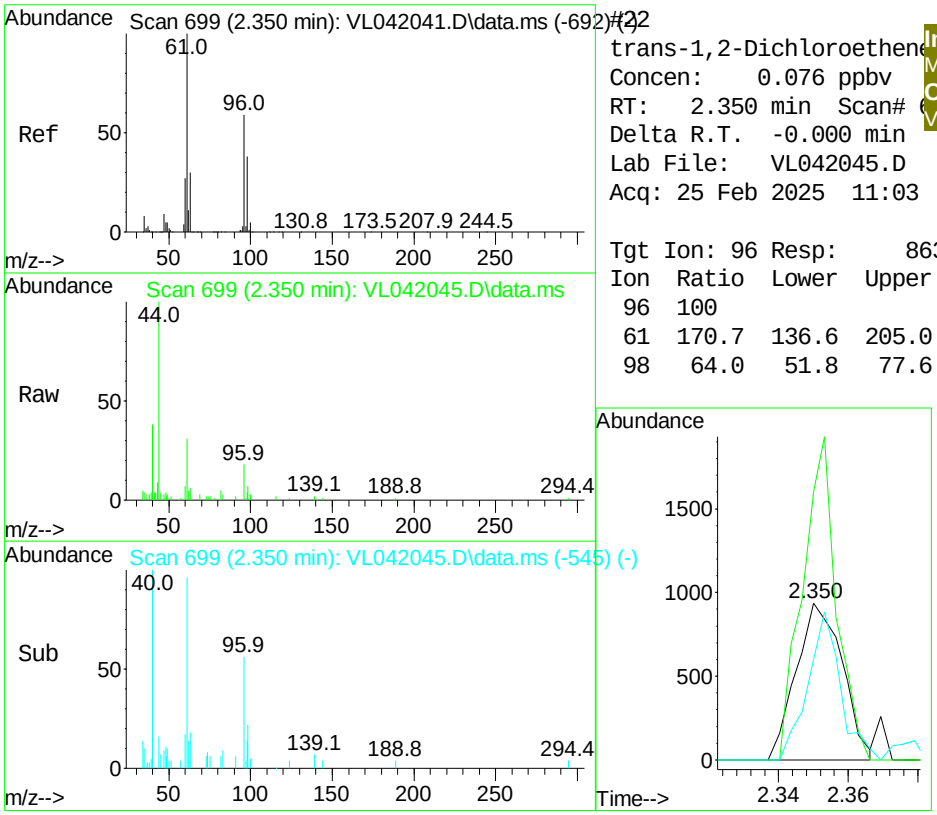
Tgt Ion: 41 Resp: 929

Ion	Ratio	Lower	Upper
41	100		
76	37.5	23.8	35.6#
39	126.3	63.8	95.6#







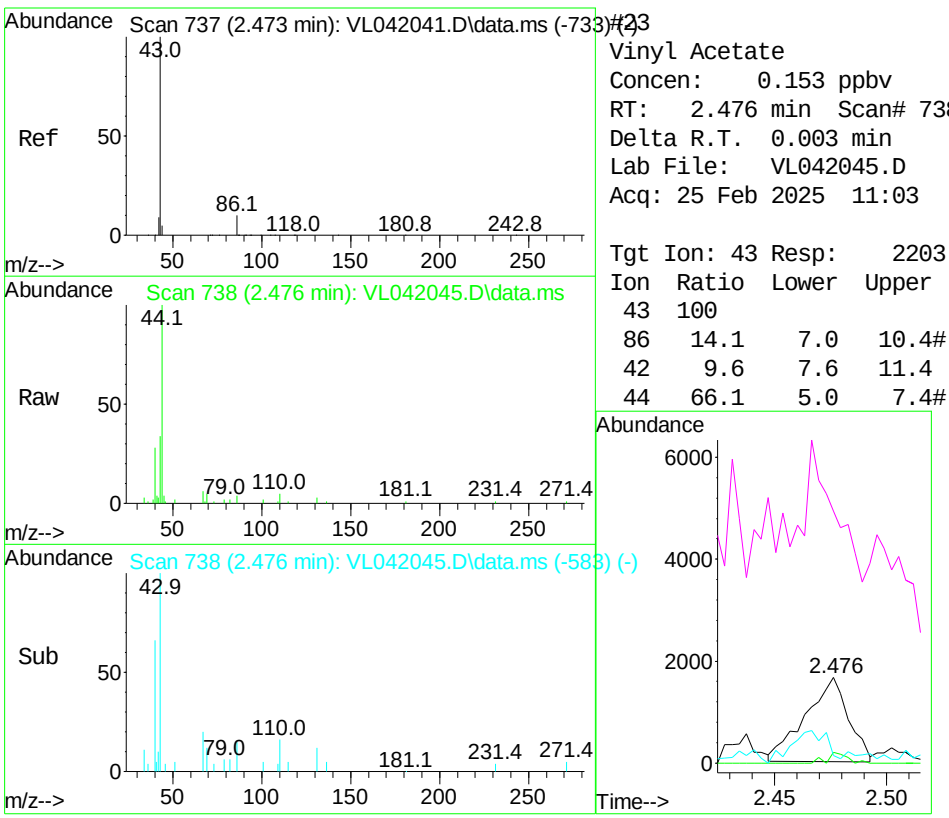


#22
trans-1,2-Dichloroethene
Concen: 0.076 ppbv
RT: 2.350 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 96 Resp: 863

Ion	Ratio	Lower	Upper
96	100		
61	170.7	136.6	205.0
98	64.0	51.8	77.6

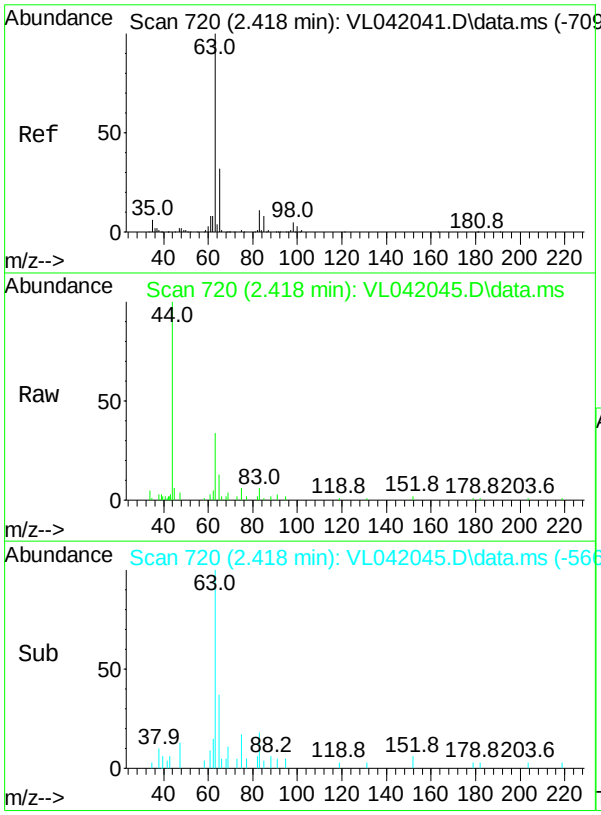
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



#23
Vinyl Acetate
Concen: 0.153 ppbv
RT: 2.476 min Scan# 738
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 43 Resp: 2203

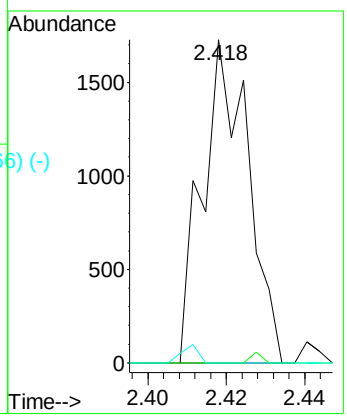
Ion	Ratio	Lower	Upper
43	100		
86	14.1	7.0	10.4#
42	9.6	7.6	11.4
44	66.1	5.0	7.4#



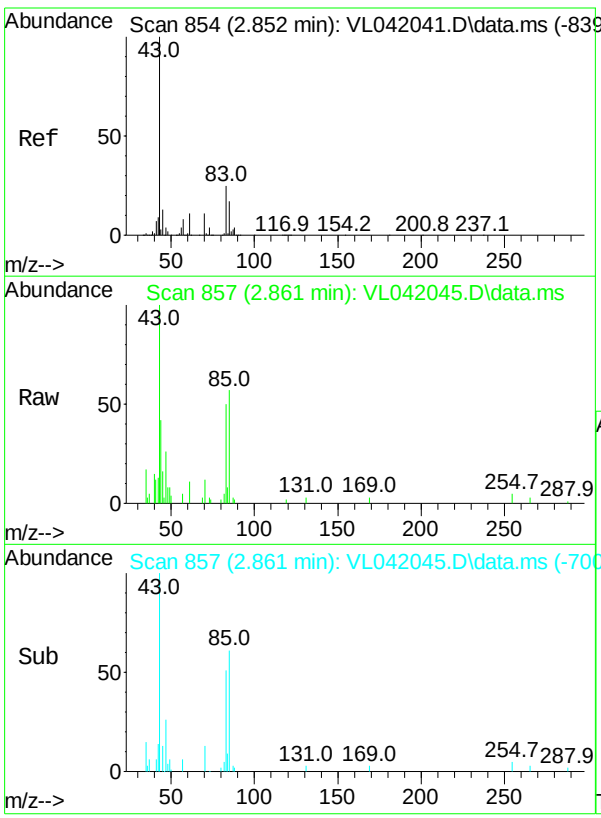
#24
1,1-Dichloroethane
Concen: 0.061 ppbv
RT: 2.418 min Scan# 720
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 63 Resp: 1398

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.4	7.2#
100	0.0	1.7	5.0#



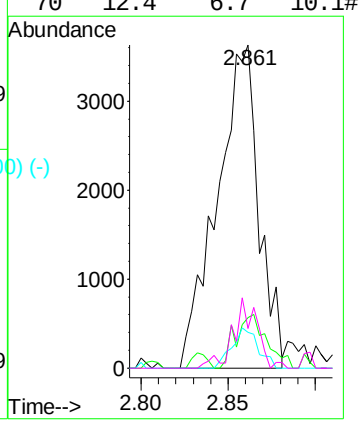
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

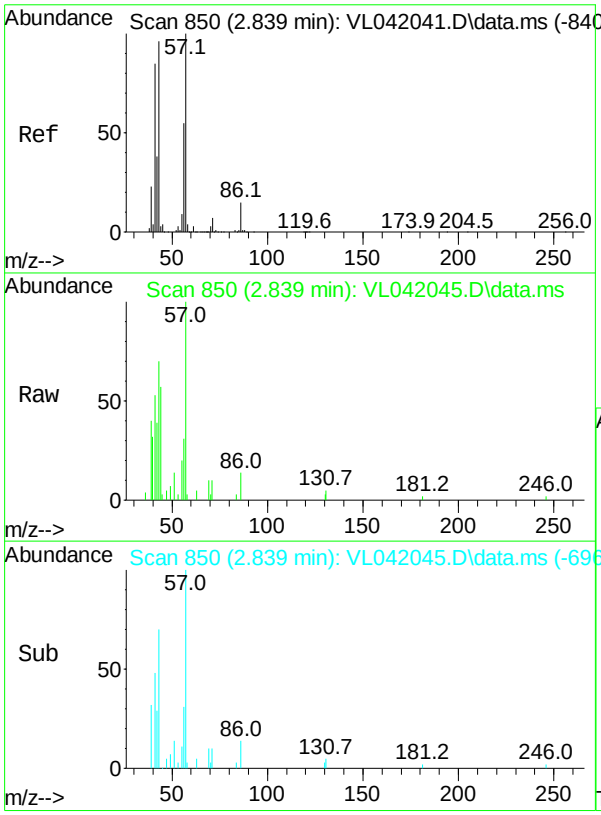


#25
Ethyl Acetate
Concen: 0.083 ppbv
RT: 2.861 min Scan# 857
Delta R.T. 0.010 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 43 Resp: 6037

Ion	Ratio	Lower	Upper
43	100		
45	15.5	8.1	12.1#
61	7.8	7.2	10.8
70	12.4	6.7	10.1#



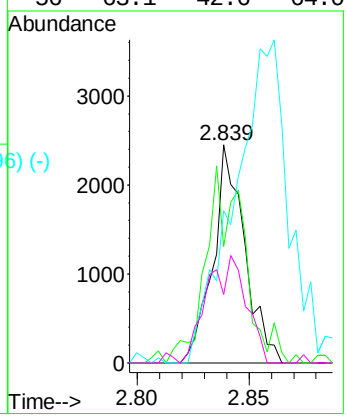


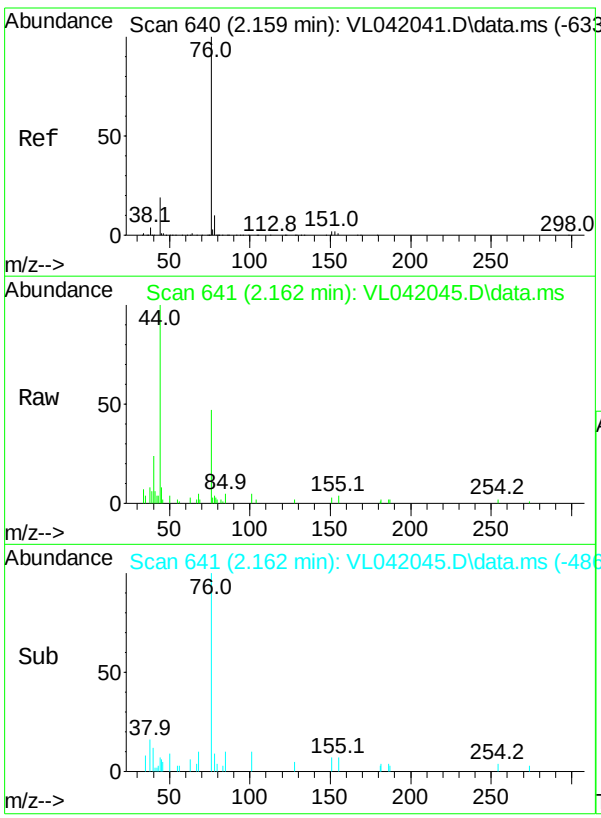
#26
Hexane
Concen: 0.082 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 57 Resp: 2417

Ion	Ratio	Lower	Upper
57	100		
41	109.7	70.6	106.0#
43	265.1	199.4	299.0
56	63.1	42.6	64.0

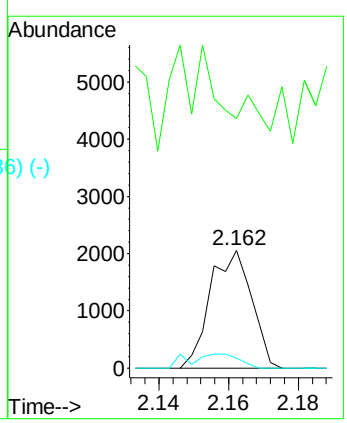


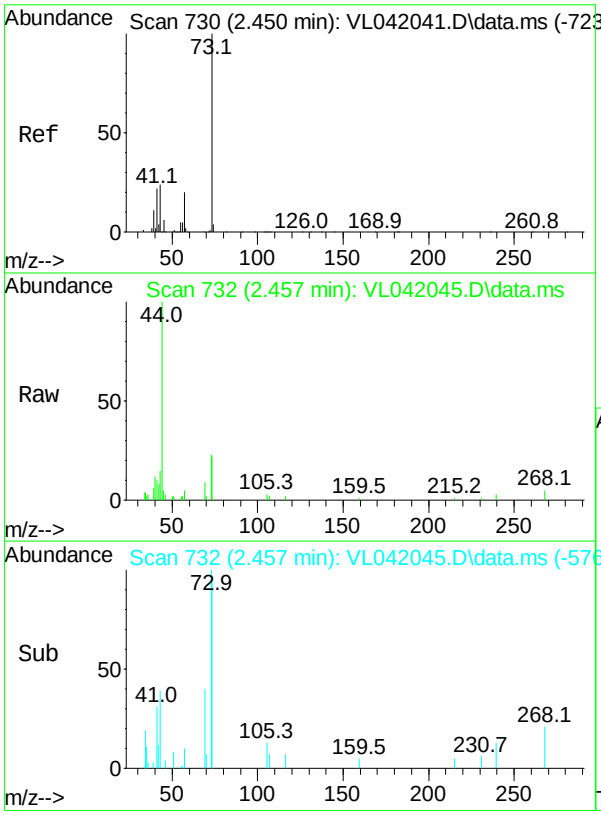


#27
Carbon Disulfide
Concen: 0.061 ppbv
RT: 2.162 min Scan# 641
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 76 Resp: 1691

Ion	Ratio	Lower	Upper
76	100		
44	451.3	16.2	24.2#
78	14.4	9.4	14.0#



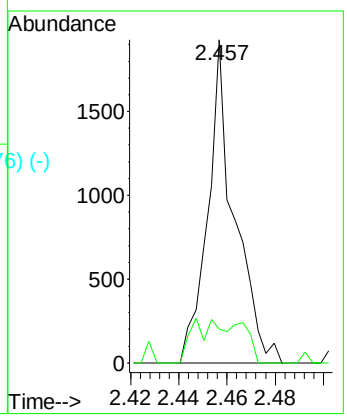


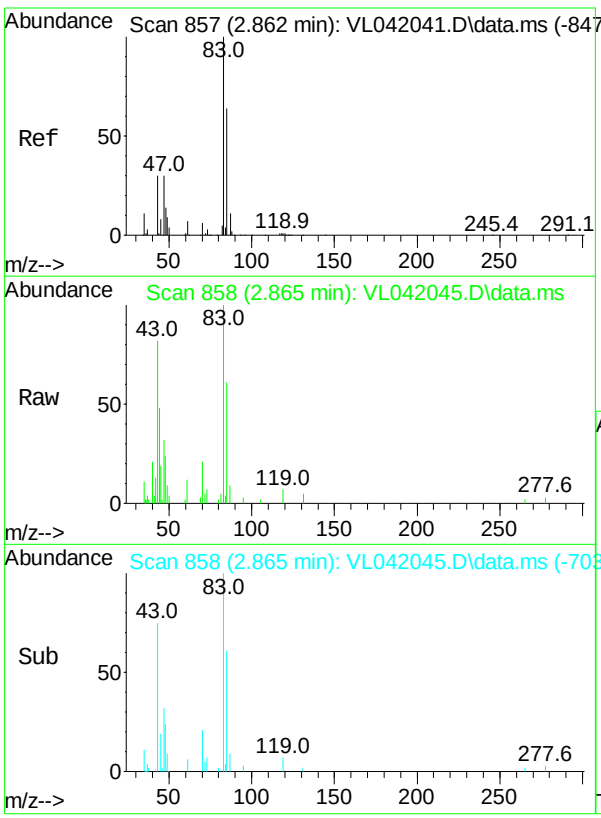
#28
Methyl tert-Butyl Ether
Concen: 0.082 ppbv
RT: 2.457 min Scan#
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 73 Resp: 1475

Ion	Ratio	Lower	Upper
73	100		
57	26.0	17.7	26.5

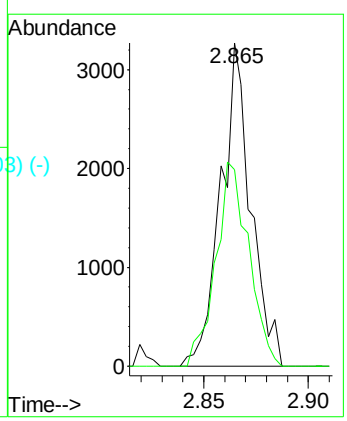


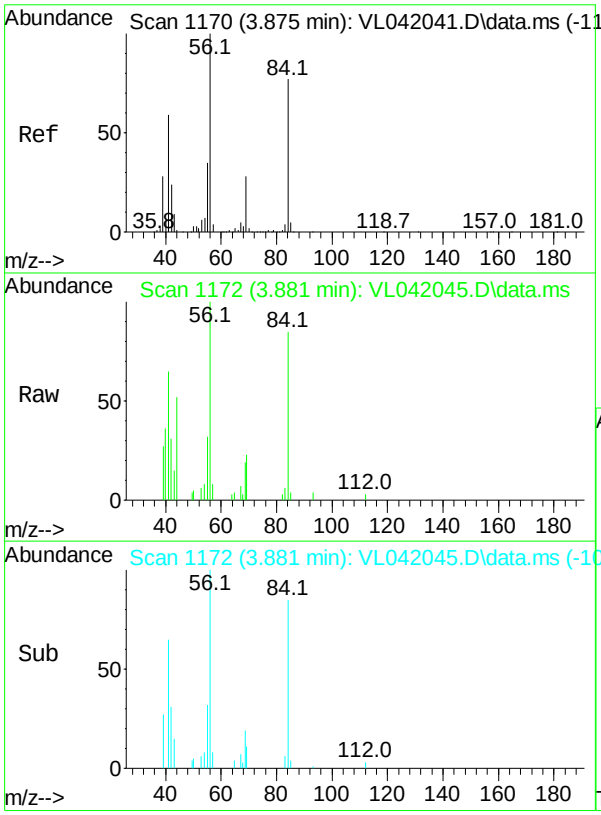


#29
Chloroform
Concen: 0.077 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 83 Resp: 3264

Ion	Ratio	Lower	Upper
83	100		
85	60.7	51.2	76.8



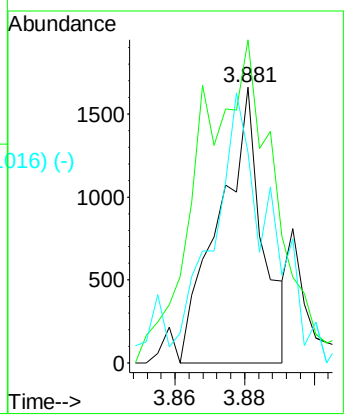


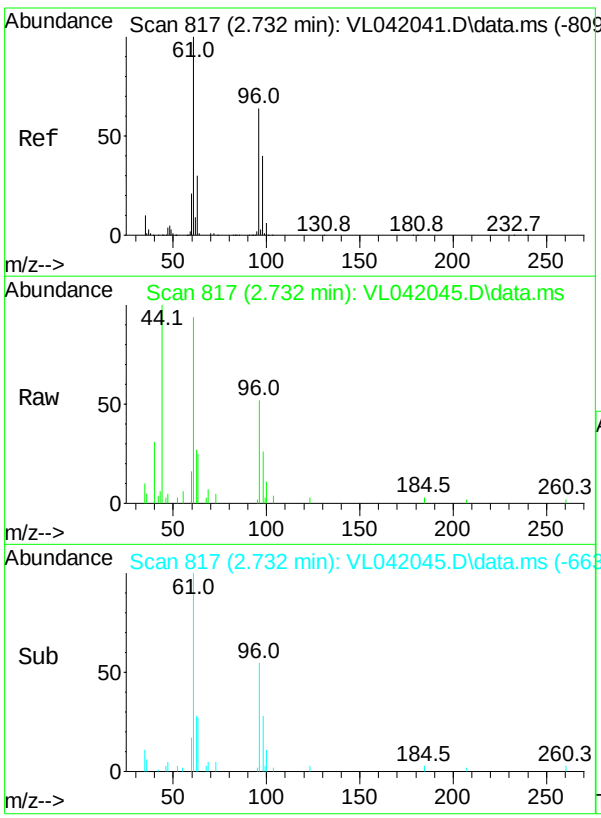
#30
Cyclohexane
Concen: 0.060 ppbv
RT: 3.881 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 84 Resp: 1421

Ion	Ratio	Lower	Upper
84	100		
56	209.1	101.5	152.3#
41	154.8	62.6	93.8#

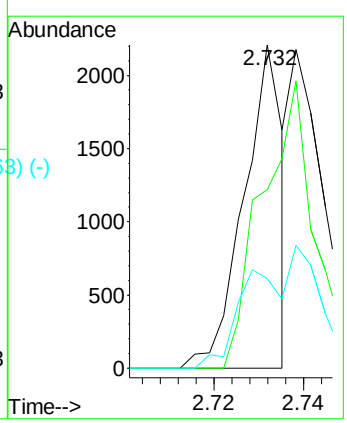


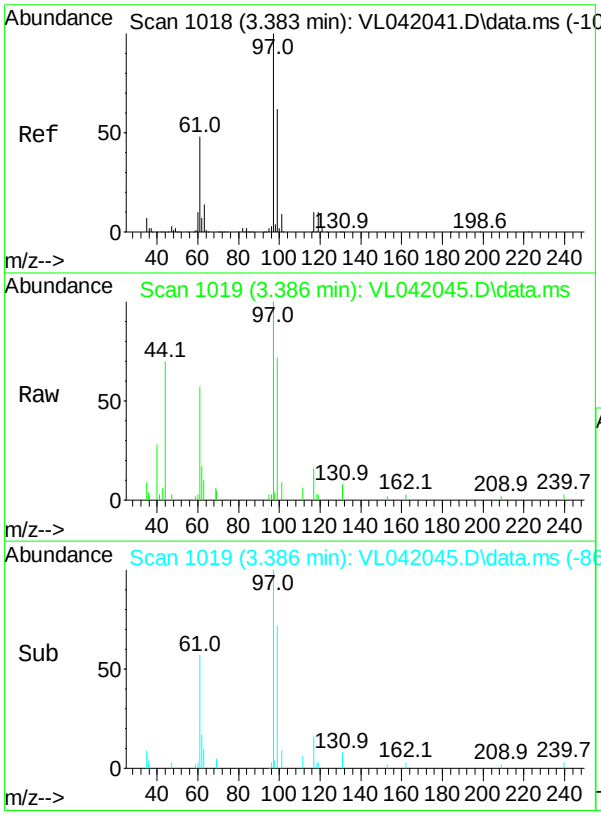


#31
cis-1,2-Dichloroethene
Concen: 0.046 ppbv
RT: 2.732 min Scan# 817
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 61 Resp: 1328

Ion	Ratio	Lower	Upper
61	100		
96	55.3	51.5	77.3
98	27.6	32.0	48.0#



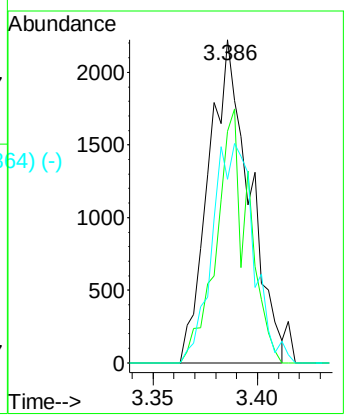


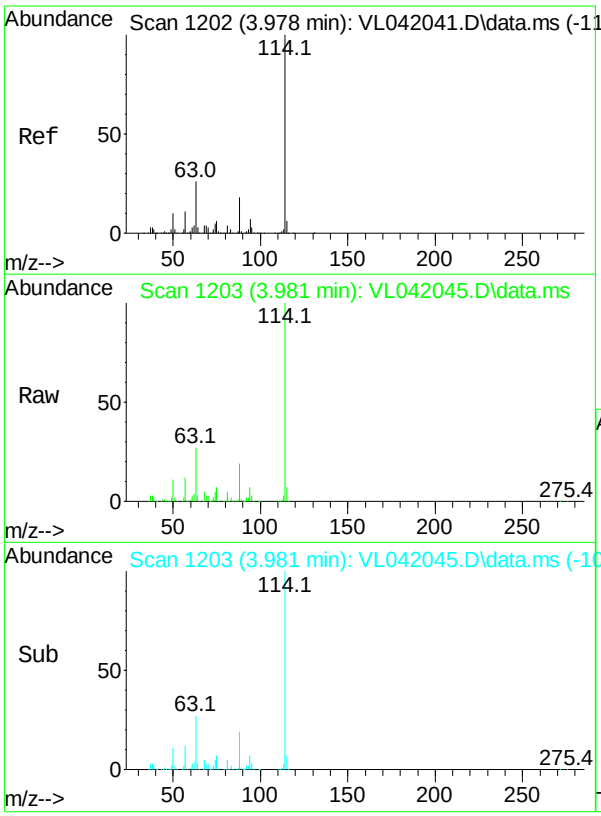
#32
1,1,1-Trichloroethane
Concen: 0.064 ppbv
RT: 3.386 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 97 Resp: 3026

Ion	Ratio	Lower	Upper
97	100		
99	61.1	49.8	74.6
61	68.5	38.9	58.3#

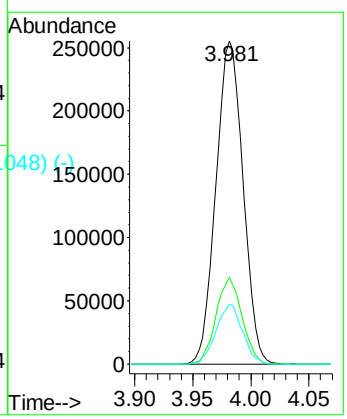


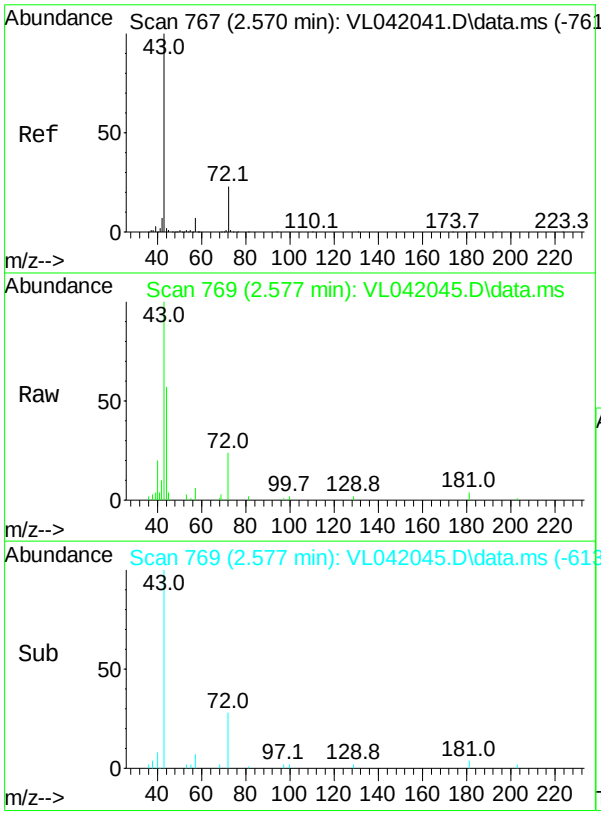


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:114 Resp: 414875

Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.1	30.1
88	18.0	14.3	21.5



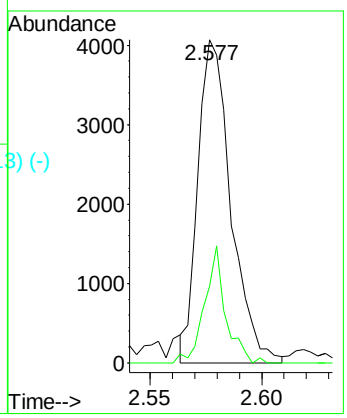


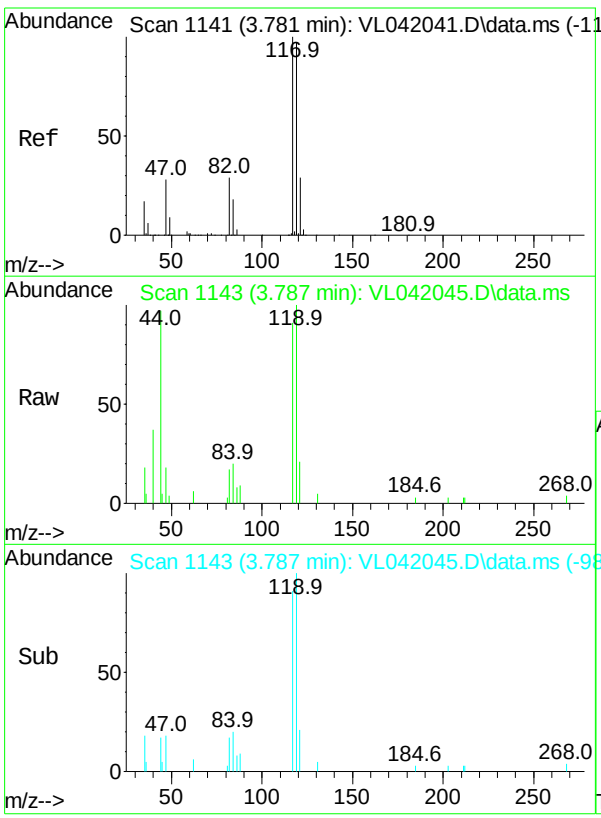
#34
2-Butanone
Concen: 0.117 ppbv
RT: 2.577 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 4167

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.5	27.7

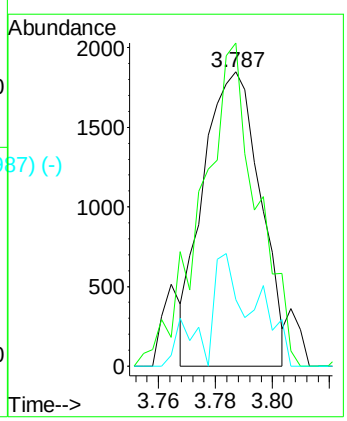


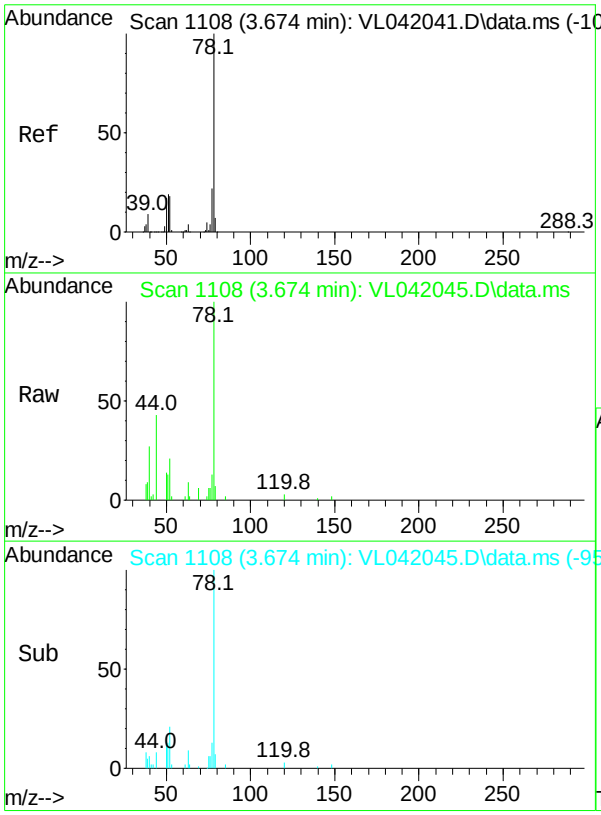


#35
Carbon Tetrachloride
Concen: 0.064 ppbv
RT: 3.787 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:117 Resp: 2571

Ion	Ratio	Lower	Upper
117	100		
119	89.5	77.8	116.8
121	7.7	23.4	35.0#

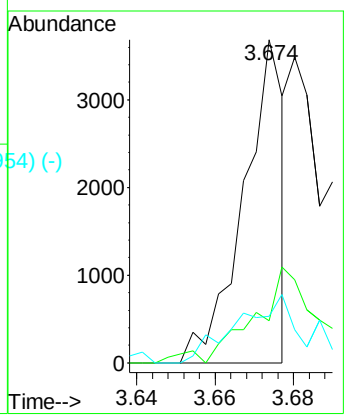


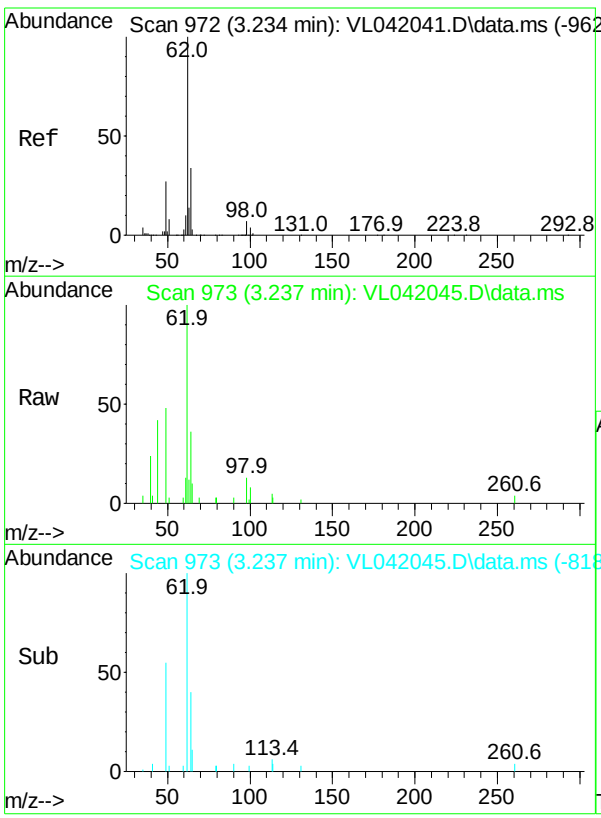


#36
Benzene
Concen: 0.052 ppbv
RT: 3.674 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 78 Resp: 2614

Ion	Ratio	Lower	Upper
78	100		
77	10.3	17.7	26.5#
50	14.4	13.9	20.9

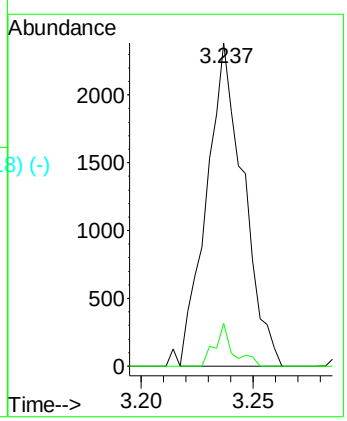




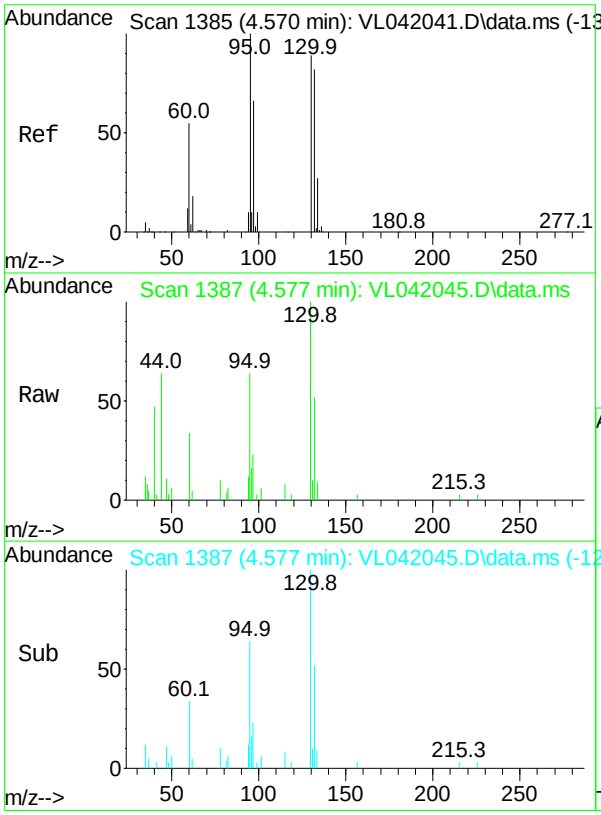
#37
1,2-Dichloroethane
Concen: 0.096 ppbv
RT: 3.237 min Scan# 973
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 62 Resp: 2734

Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

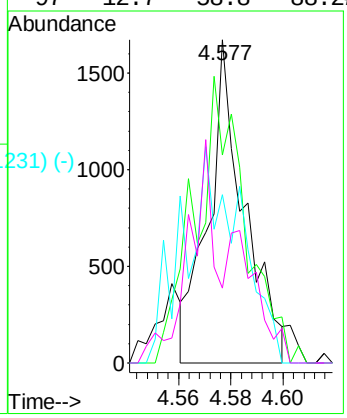


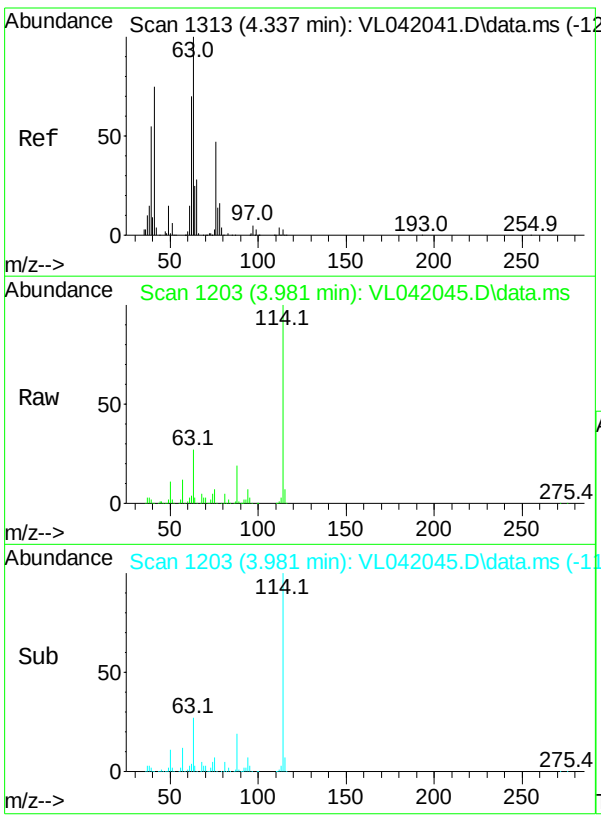
#88
Trichloroethene
Concen: 0.078 ppbv
RT: 4.577 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:130 Resp: 1585

Ion	Ratio	Lower	Upper
130	100		
95	50.5	89.5	134.3#
132	52.5	73.8	110.6#
97	12.7	58.8	88.2#

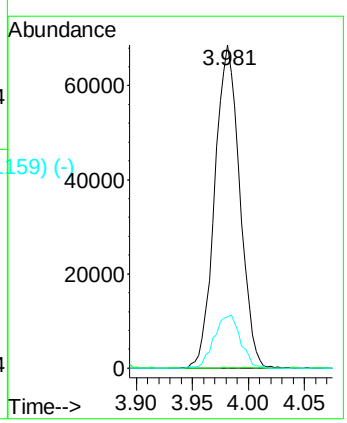


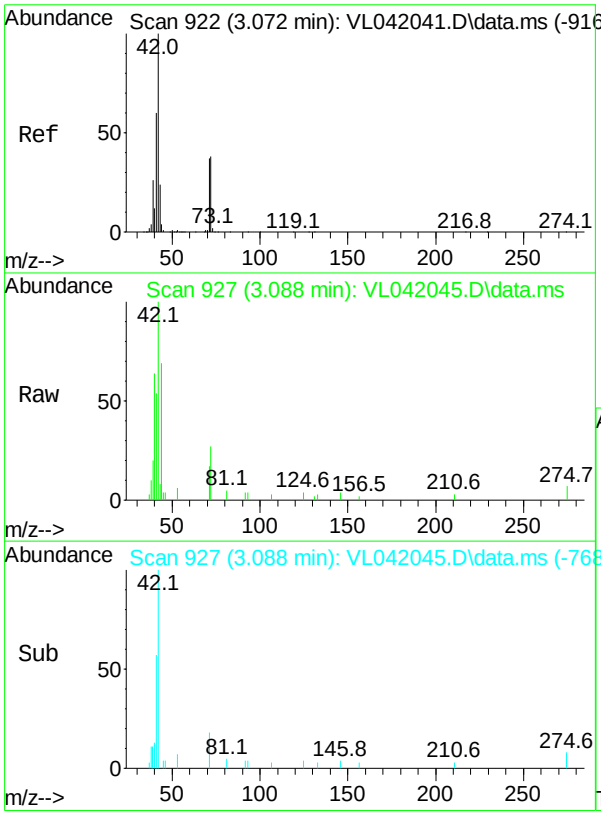


#89
1,2-Dichloropropane
Concen: 5.792 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. -0.356 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 63 Resp: 106722

Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.1	90.1#
62	15.9	55.8	83.8#

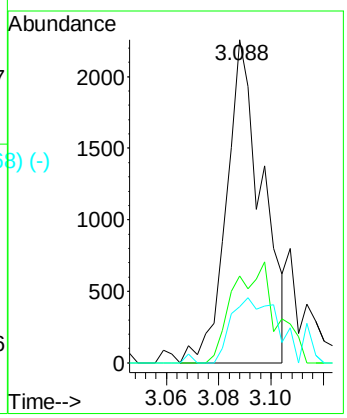




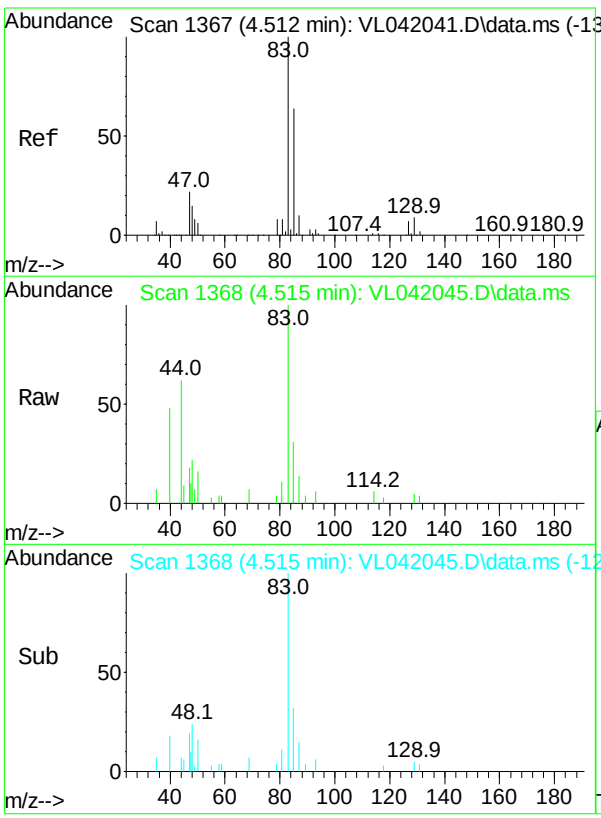
#41
Tetrahydrofuran
Concen: 0.105 ppbv
RT: 3.088 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 42 Resp: 2150

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.2	45.2#
71	29.4	28.2	42.4



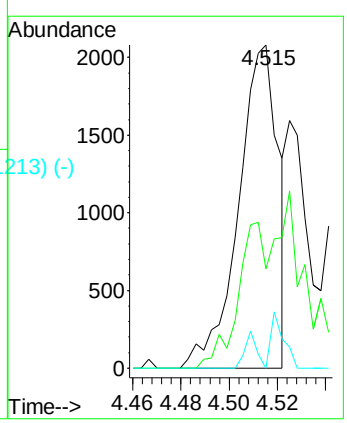
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

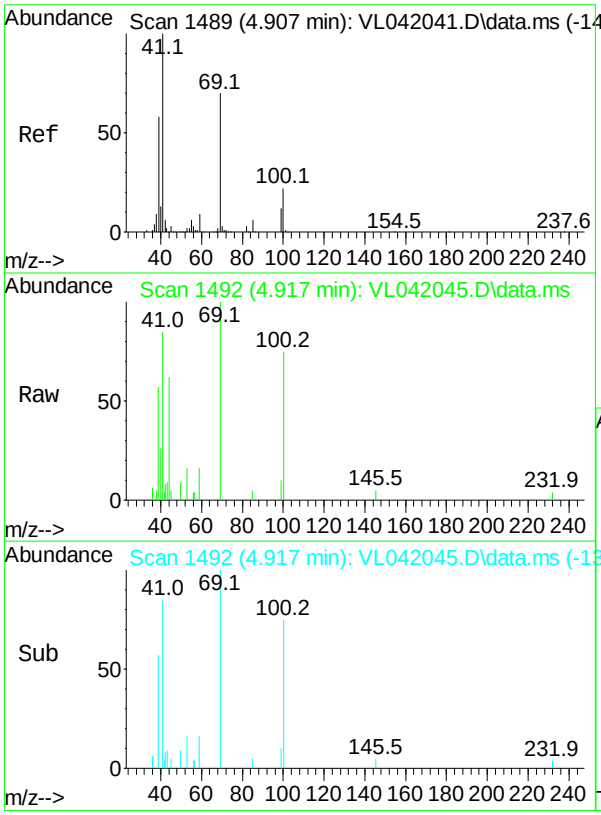


#42
Bromodichloromethane
Concen: 0.061 ppbv
RT: 4.515 min Scan# 1368
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 83 Resp: 2370

Ion	Ratio	Lower	Upper
83	100		
85	30.8	51.4	77.2#
127	0.0	5.8	8.6#

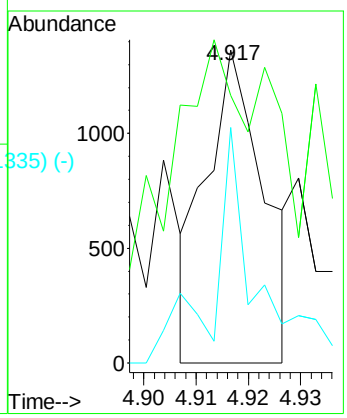


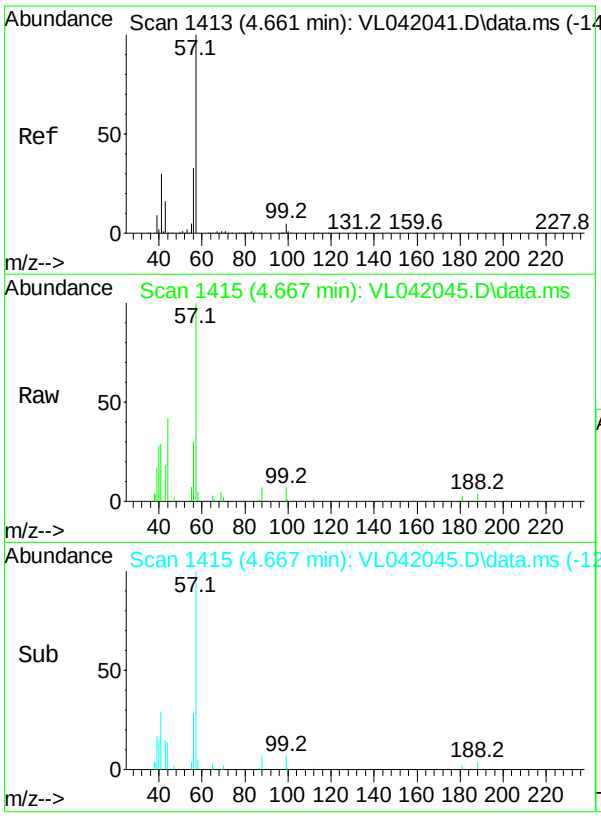


#43
Methyl Methacrylate
Concen: 0.046 ppbv
RT: 4.917 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 69 Resp: 1045

Ion	Ratio	Lower	Upper
69	100		
41	274.1	118.2	177.4#
100	58.9	27.0	40.4#

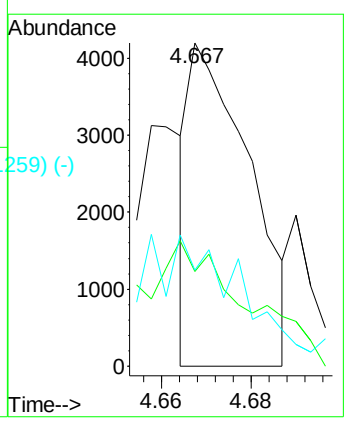




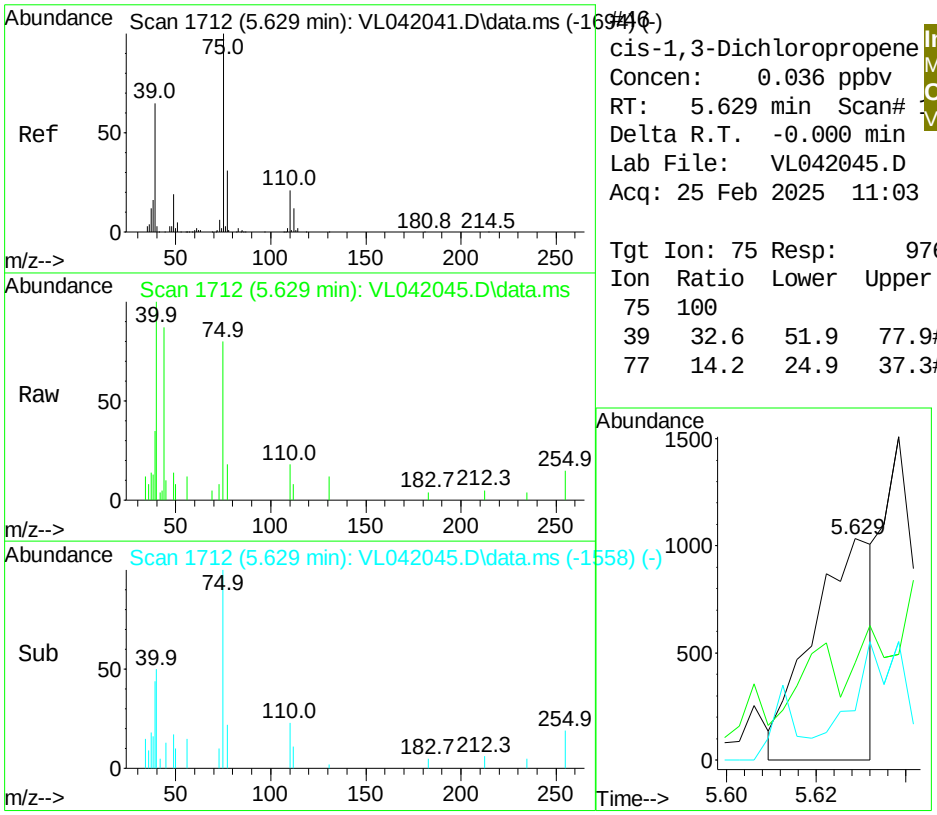
#44
2,2,4-Trimethylpentane
Concen: 0.046 ppbv
RT: 4.667 min Scan# 1415
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 57 Resp: 3926

Ion	Ratio	Lower	Upper
57	100		
41	74.0	24.4	36.6#
56	0.0	26.5	39.7#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

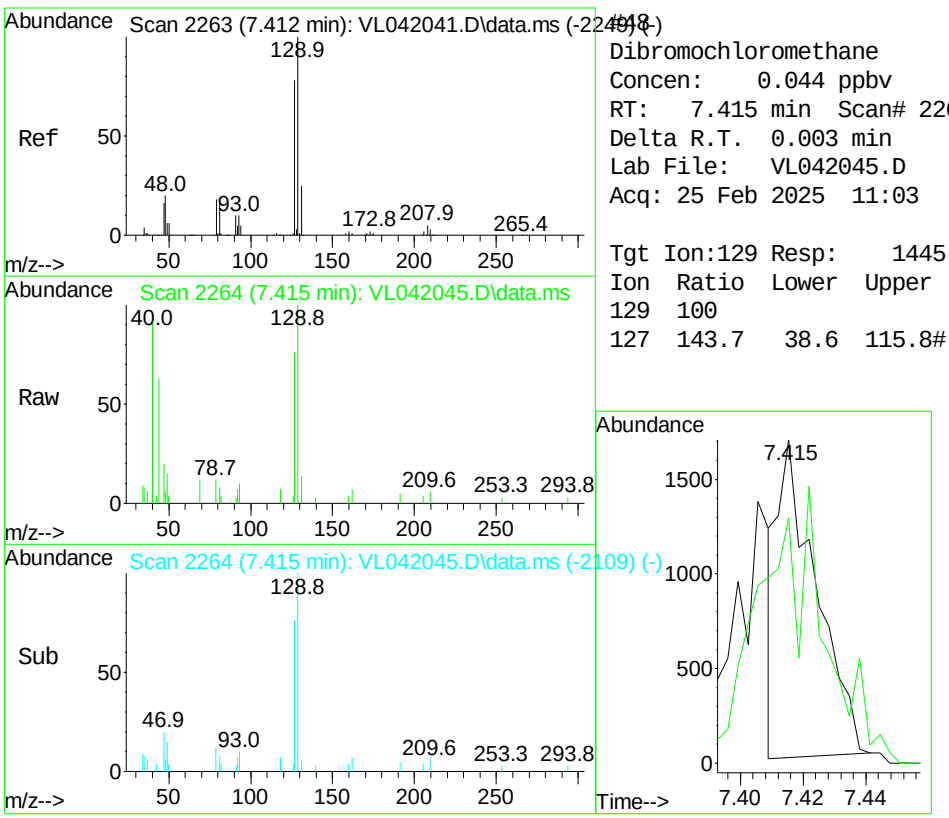


#46
cis-1,3-Dichloropropene
Concen: 0.036 ppbv
RT: 5.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 75 Resp: 976

Ion	Ratio	Lower	Upper
75	100		
39	32.6	51.9	77.9#
77	14.2	24.9	37.3#

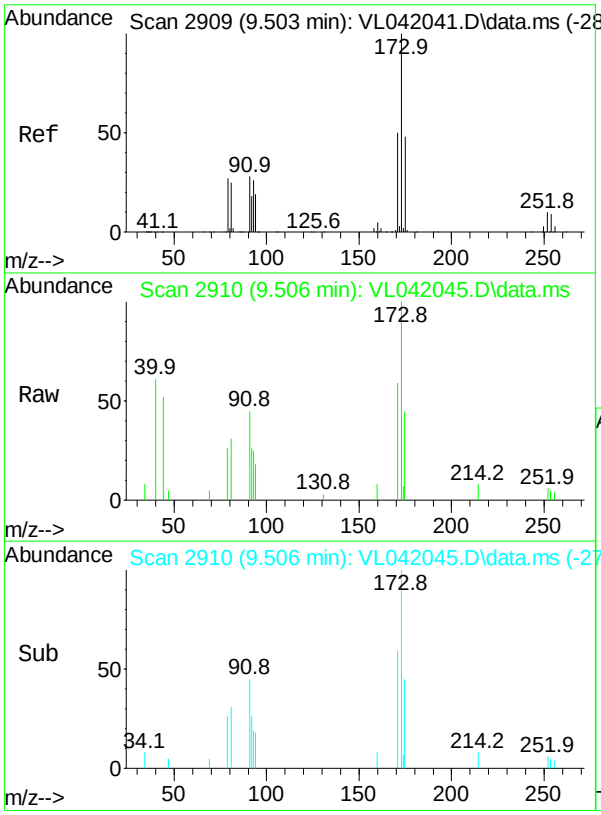
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



#48
Dibromochloromethane
Concen: 0.044 ppbv
RT: 7.415 min Scan# 2264
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:129 Resp: 1445

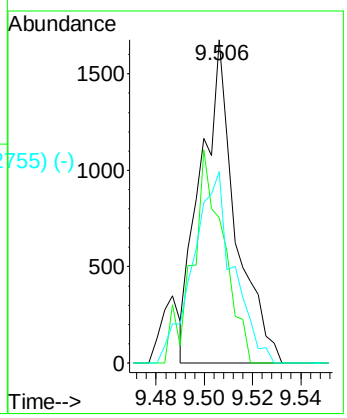
Ion	Ratio	Lower	Upper
129	100		
127	143.7	38.6	115.8#

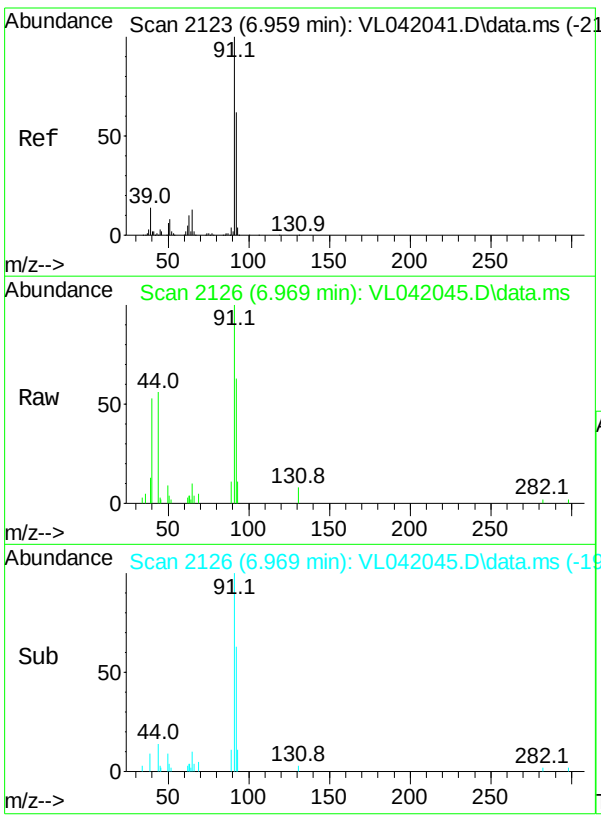


#49
Bromoform
Concen: 0.063 ppbv
RT: 9.506 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:173 Resp: 1684

Ion	Ratio	Lower	Upper
173	100		
175	59.0	38.3	57.5#
171	68.1	40.2	60.2#

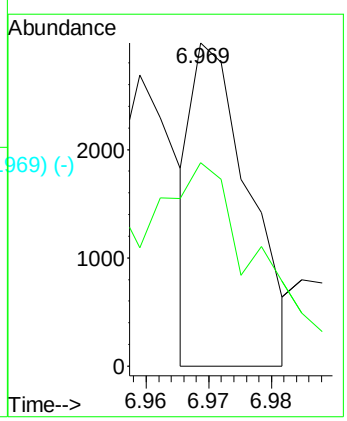




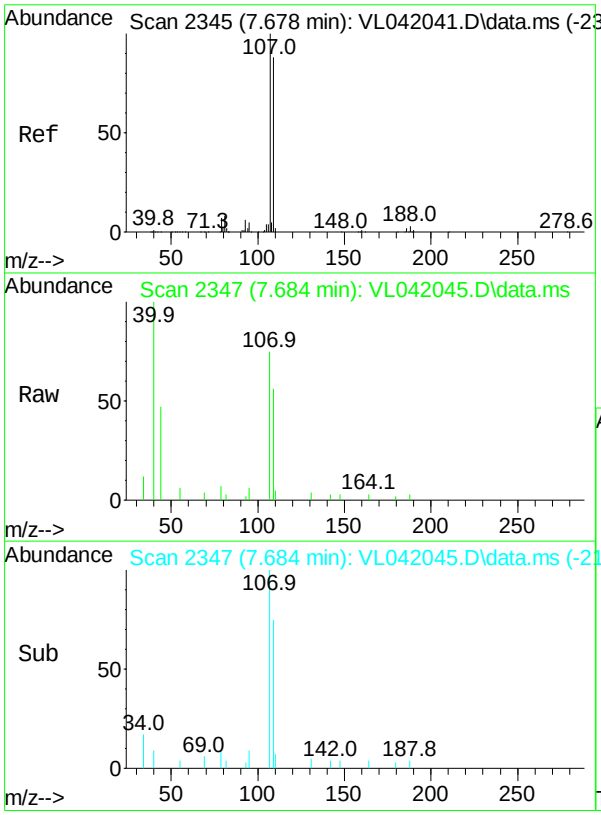
#53
Toluene
Concen: 0.031 ppbv
RT: 6.969 min Scan# 2126
Delta R.T. 0.010 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 91 Resp: 1861

Ion	Ratio	Lower	Upper
91	100		
92	180.2	49.0	73.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

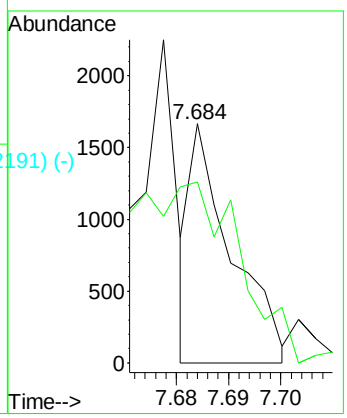


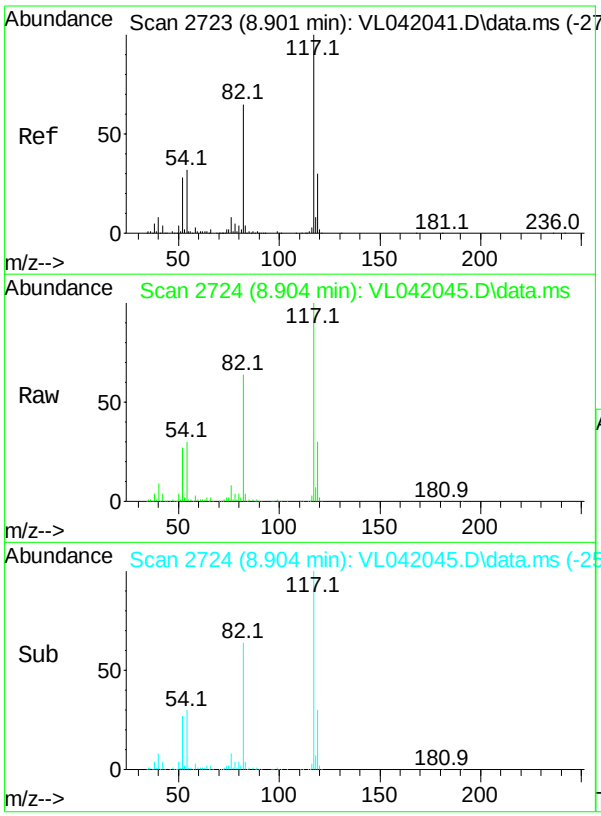
#54
1,2-Dibromoethane
Concen: 0.034 ppbv
RT: 7.684 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:107 Resp: 915

Ion	Ratio	Lower	Upper
107	100		
109	56.2	70.2	105.4#

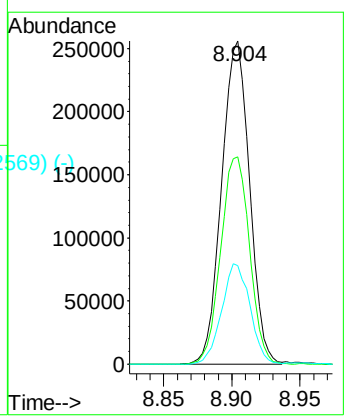


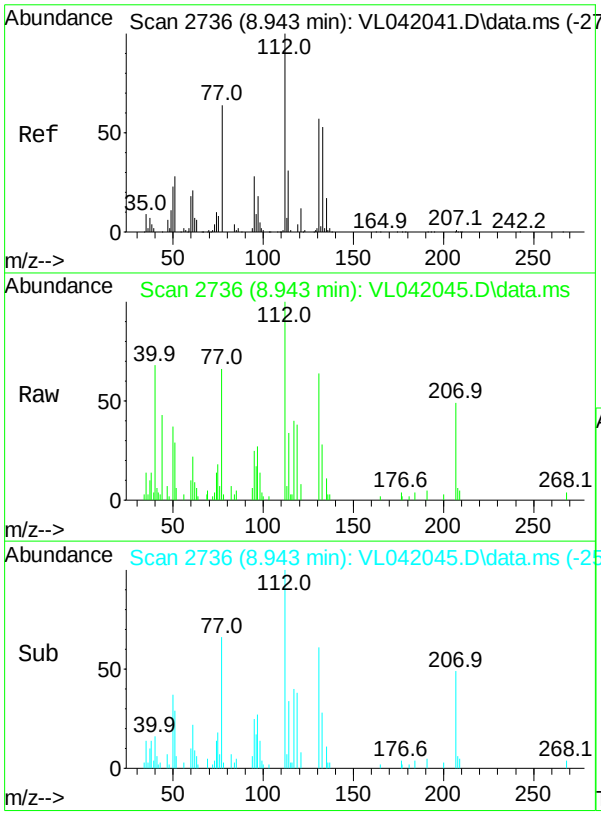


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:117 Resp: 363831

Ion	Ratio	Lower	Upper
117	100		
82	66.3	55.0	82.6
119	31.9	25.9	38.9

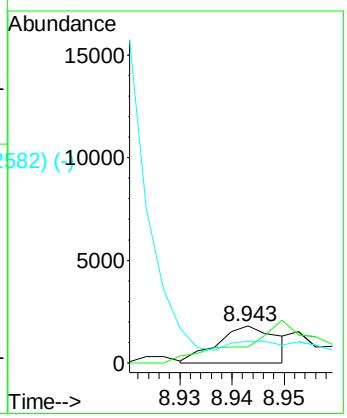




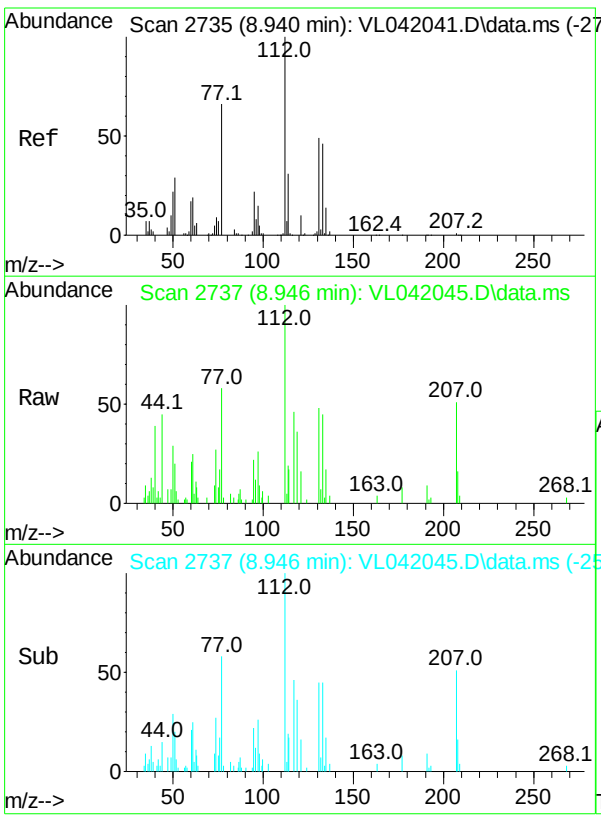
#56
1,1,1,2-Tetrachloroethan
Concen: 0.055 ppbv
RT: 8.943 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:131 Resp: 1438

Ion	Ratio	Lower	Upper
131	100		
133	0.0	75.8	113.8#
119	0.0	52.1	78.1#



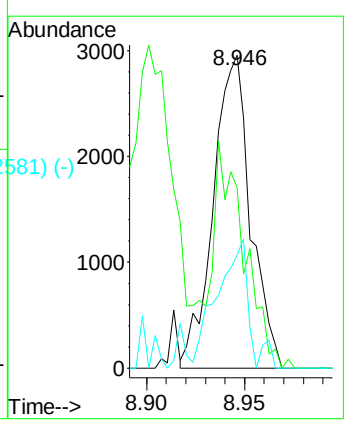
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

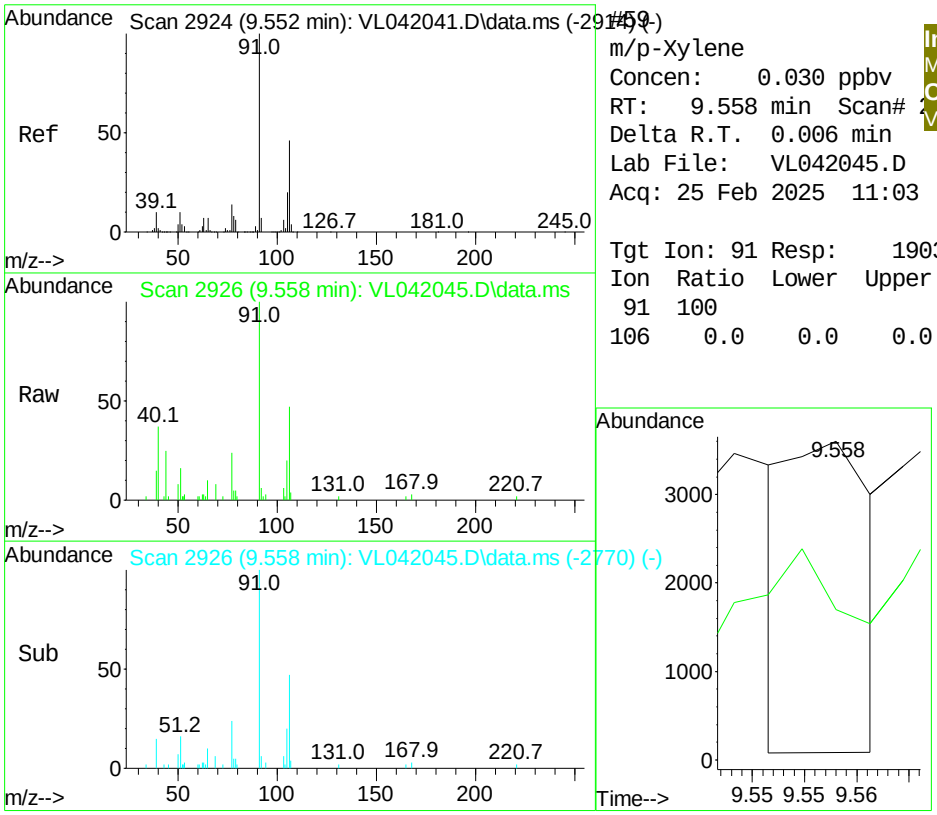


#57
Chlorobenzene
Concen: 0.091 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:112 Resp: 3915

Ion	Ratio	Lower	Upper
112	100		
77	57.8	53.4	80.2
114	36.3	28.3	34.5#



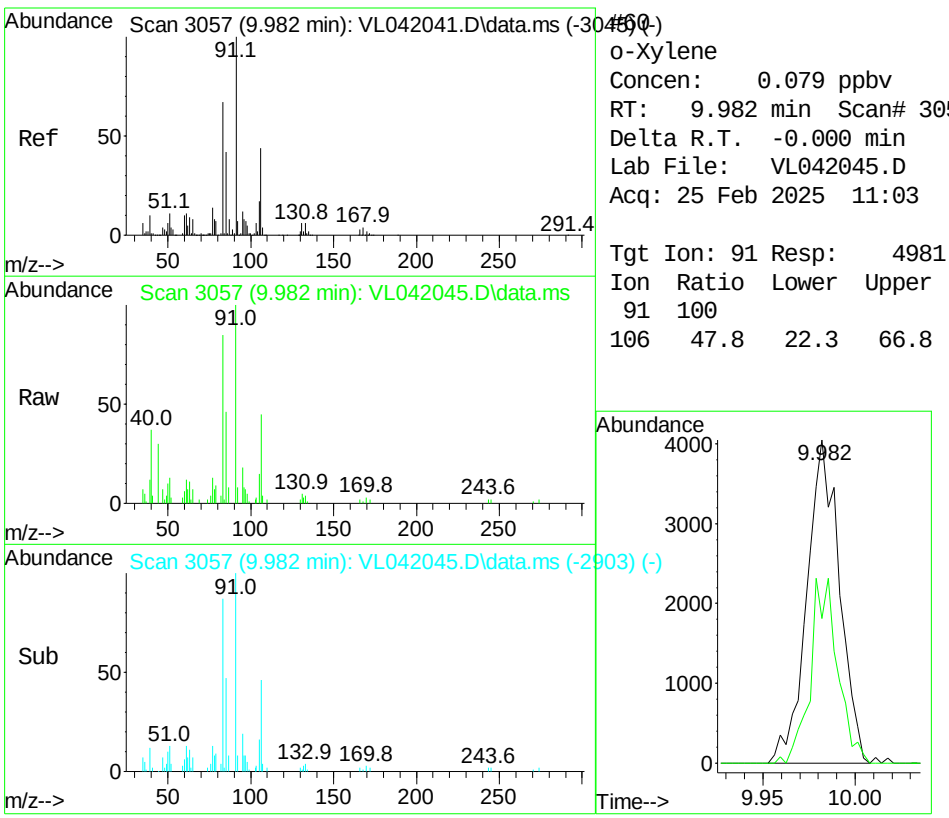


#59
m/p-Xylene
Concen: 0.030 ppbv
RT: 9.558 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 91 Resp: 1903

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

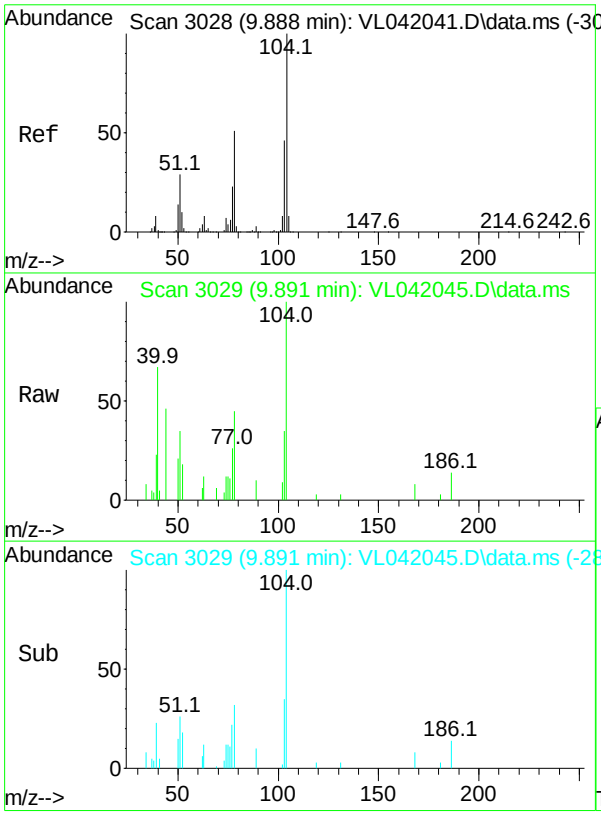
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



#60
o-Xylene
Concen: 0.079 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 91 Resp: 4981

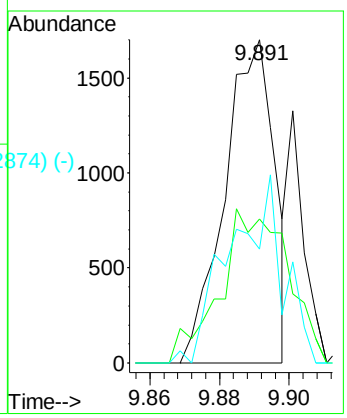
Ion	Ratio	Lower	Upper
91	100		
106	47.8	22.3	66.8

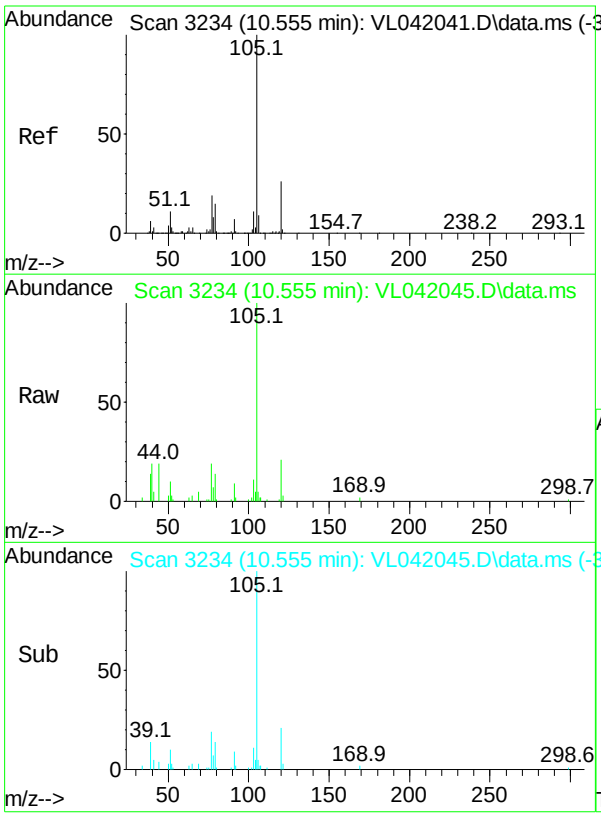


#61
Styrene
Concen: 0.056 ppbv
RT: 9.891 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:104 Resp: 1689

Ion	Ratio	Lower	Upper
104	100		
78	69.2	41.0	61.4#
103	61.5	37.0	55.6#

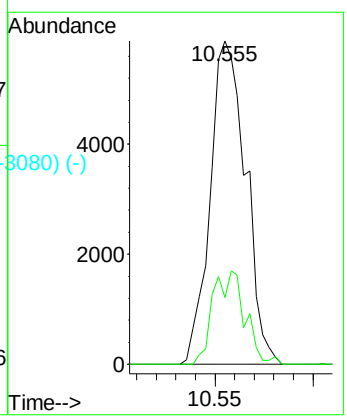




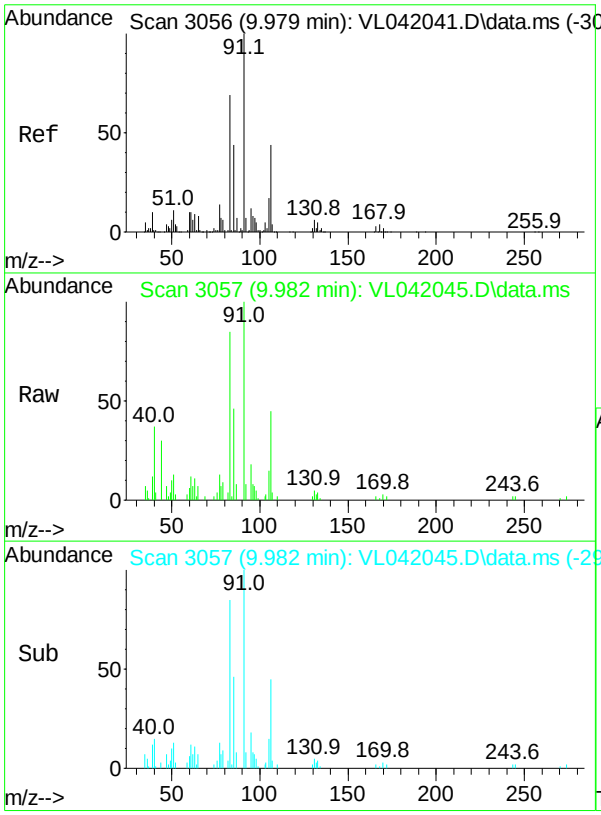
#62
Isopropylbenzene
Concen: 0.078 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:105 Resp: 7453

Ion	Ratio	Lower	Upper
105	100		
120	26.1	20.7	31.1



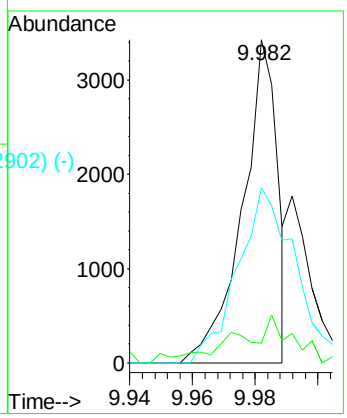
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



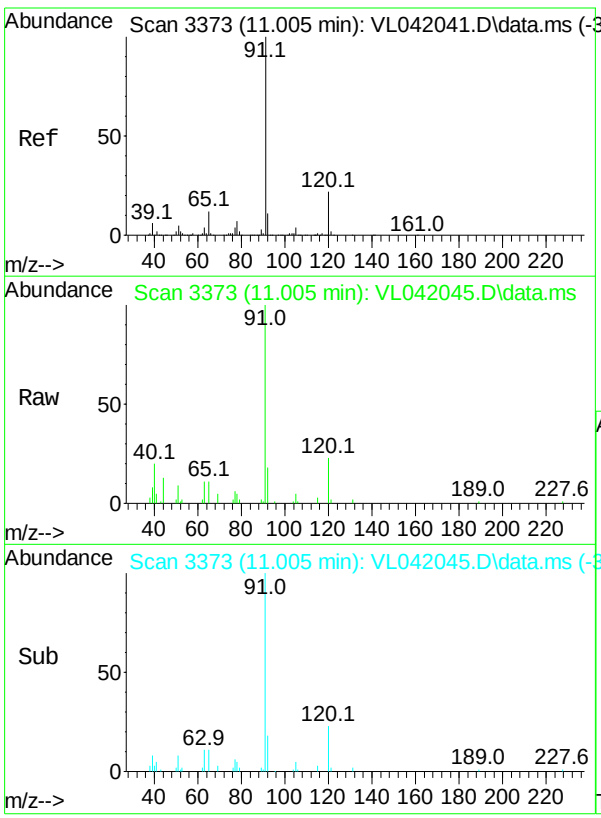
#63
1,1,2,2-Tetrachloroethan
Concen: 0.065 ppbv
RT: 9.982 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 83 Resp: 2654

Ion	Ratio	Lower	Upper
83	100		
131	30.7	4.5	13.7#
85	88.3	32.1	96.3



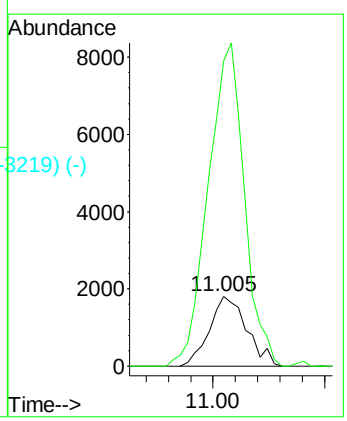
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

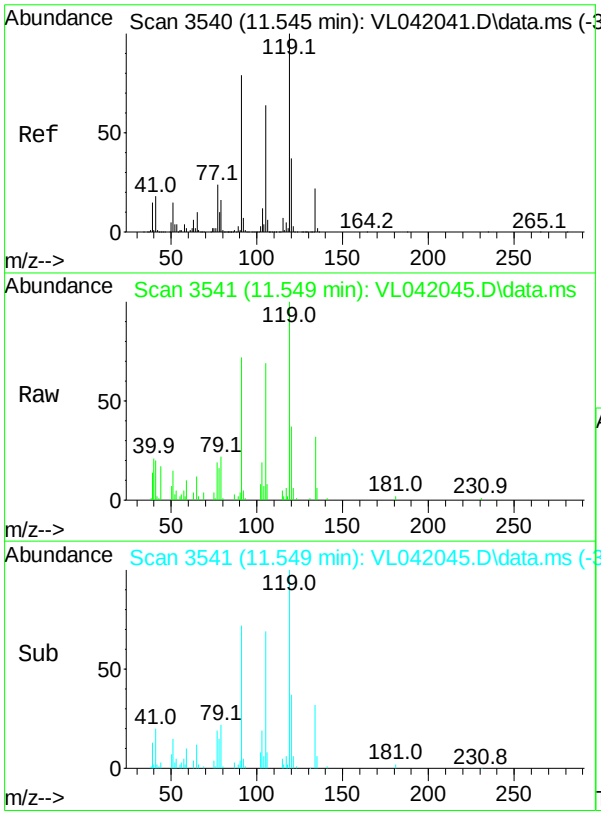


#64
n-propylbenzene
Concen: 0.089 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:120 Resp: 2092

Ion	Ratio	Lower	Upper
120	100		
91	450.0	370.6	556.0

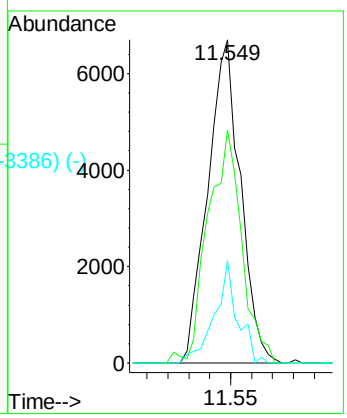




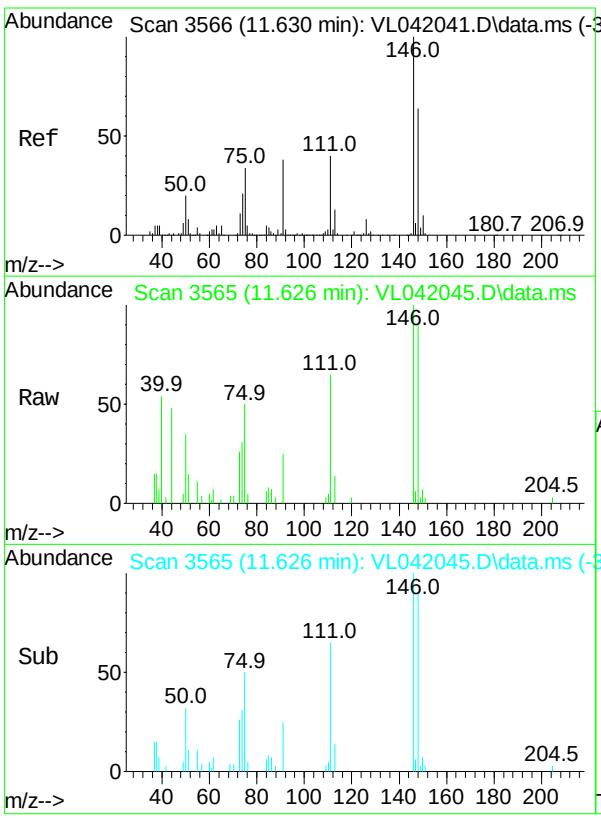
#65
tert-Butylbenzene
Concen: 0.088 ppbv
RT: 11.549 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:119 Resp: 7279

Ion	Ratio	Lower	Upper
119	100		
91	74.4	64.2	96.2
134	22.0	17.4	26.2



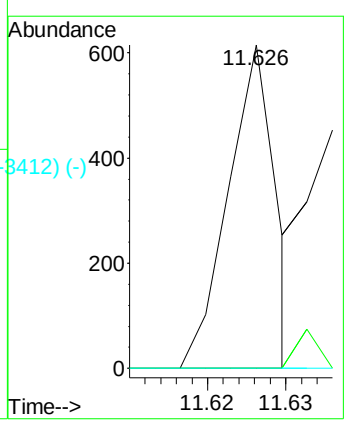
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

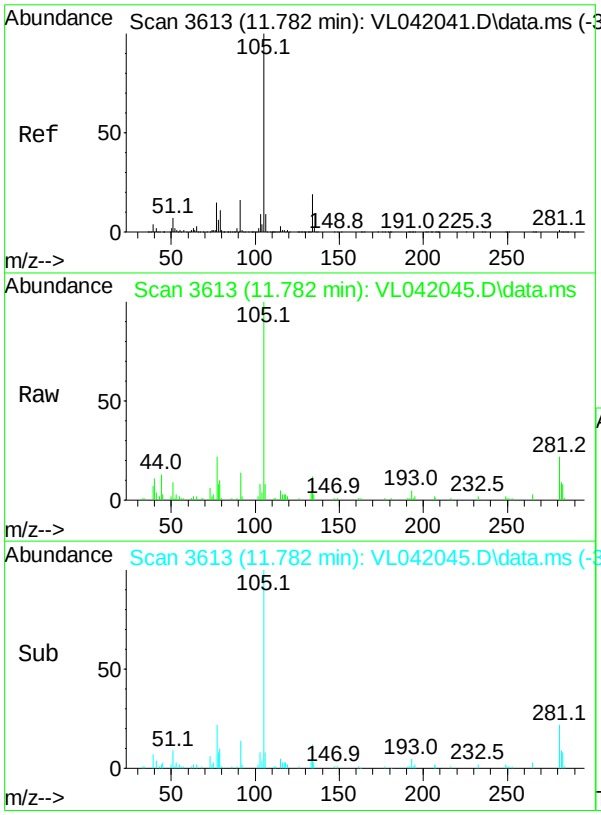


#66
Benzyl Chloride
Concen: 0.031 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 91 Resp: 260

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.5	21.7#
128	0.0	5.4	8.2#

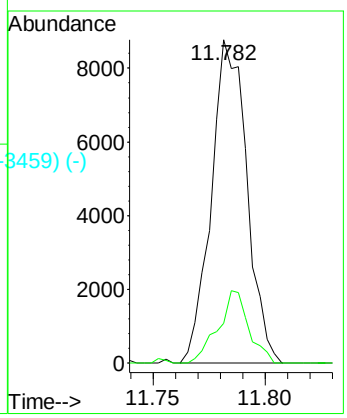




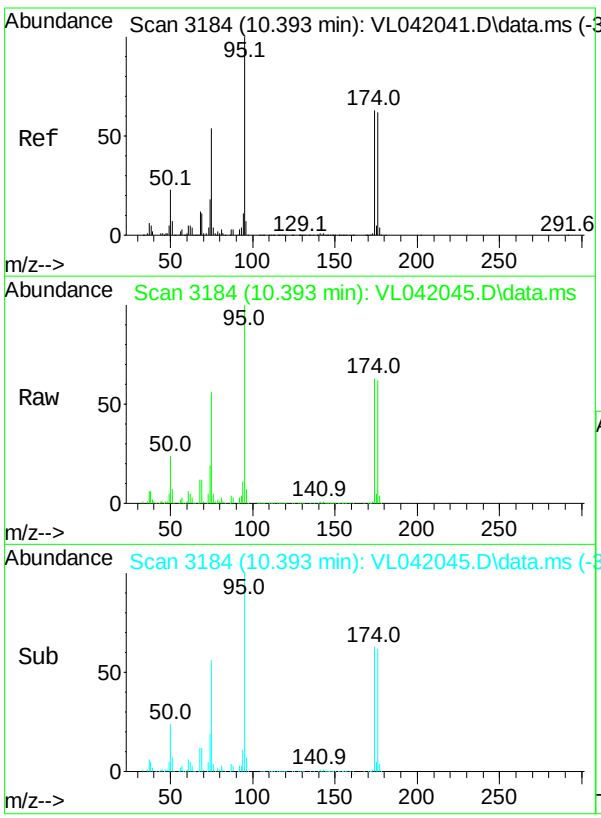
#67
sec-Butylbenzene
Concen: 0.083 ppbv
RT: 11.782 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:105 Resp: 9708

Ion	Ratio	Lower	Upper
105	100		
134	19.5	14.9	22.3



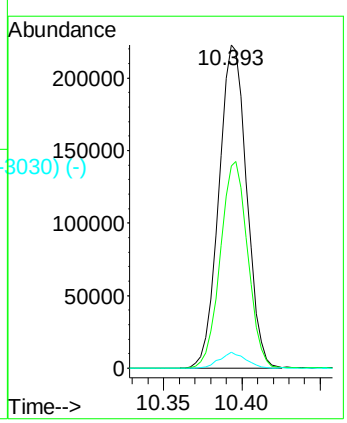
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

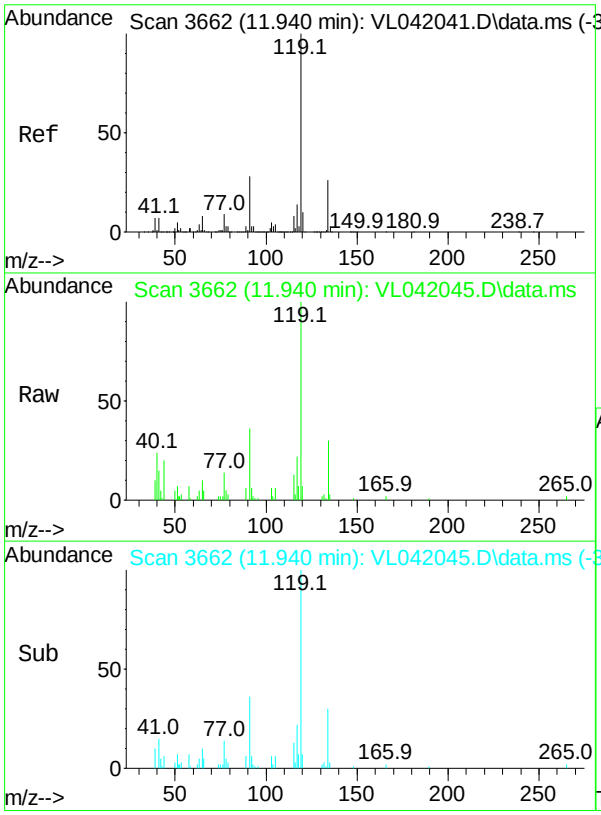


#68
1-Bromo-4-Fluorobenzene
Concen: 9.213 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 95 Resp: 276484

Ion	Ratio	Lower	Upper
95	100		
174	63.2	51.8	77.6
175	4.6	3.9	5.9

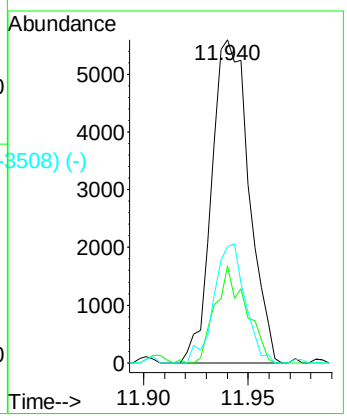




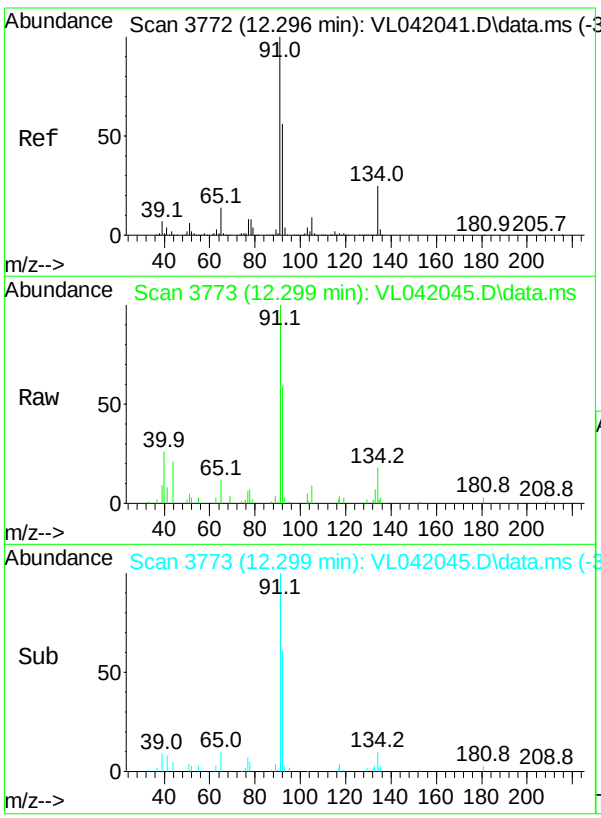
#69
p-Isopropyltoluene
Concen: 0.073 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:119 Resp: 6937

Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.9	31.3
91	31.7	23.1	34.7



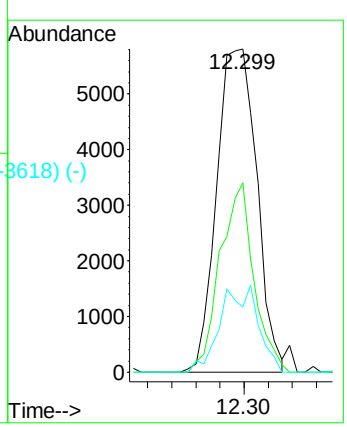
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

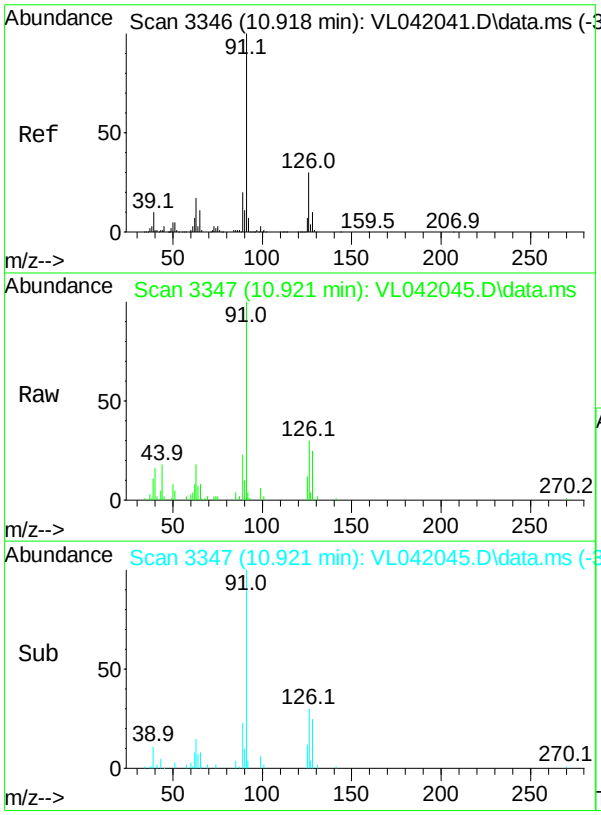


#70
n-Butylbenzene
Concen: 0.071 ppbv
RT: 12.299 min Scan# 3773
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 91 Resp: 6704

Ion	Ratio	Lower	Upper
91	100		
92	49.3	44.7	67.1
134	25.2	18.9	28.3

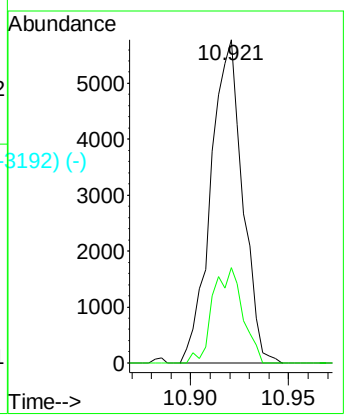


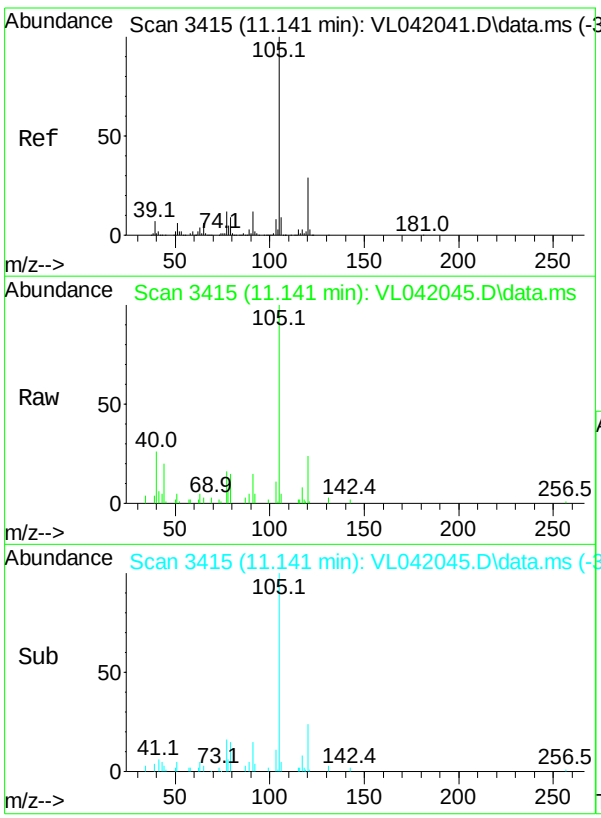


#71
2-Chlorotoluene
Concen: 0.091 ppbv
RT: 10.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion: 91 Resp: 6558

Ion	Ratio	Lower	Upper
91	100		
126	27.7	11.9	47.5

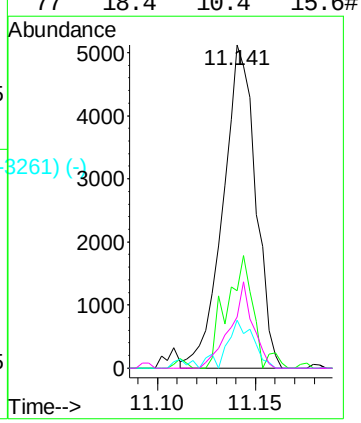




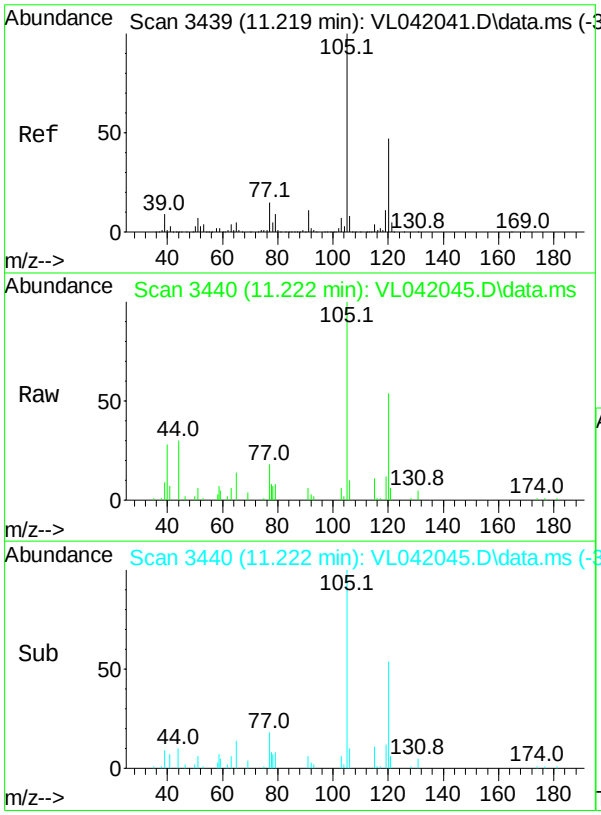
#72
4-Ethyltoluene
Concen: 0.080 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:105 Resp: 5948

Ion	Ratio	Lower	Upper
105	100		
120	30.1	24.1	36.1
91	13.5	10.2	15.4
77	18.4	10.4	15.6#



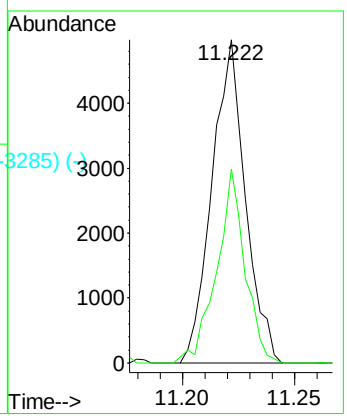
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



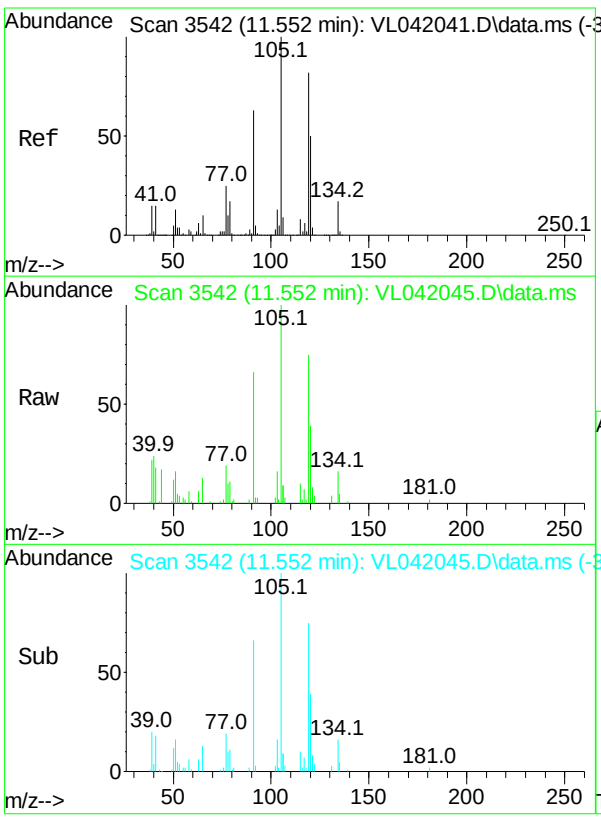
#73
1,3,5-Trimethylbenzene
Concen: 0.081 ppbv
RT: 11.222 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:105 Resp: 5175

Ion	Ratio	Lower	Upper
105	100		
120	60.0	37.4	56.0#



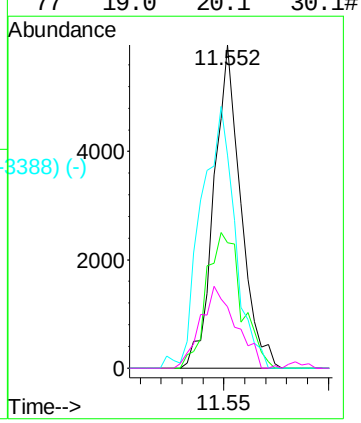
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

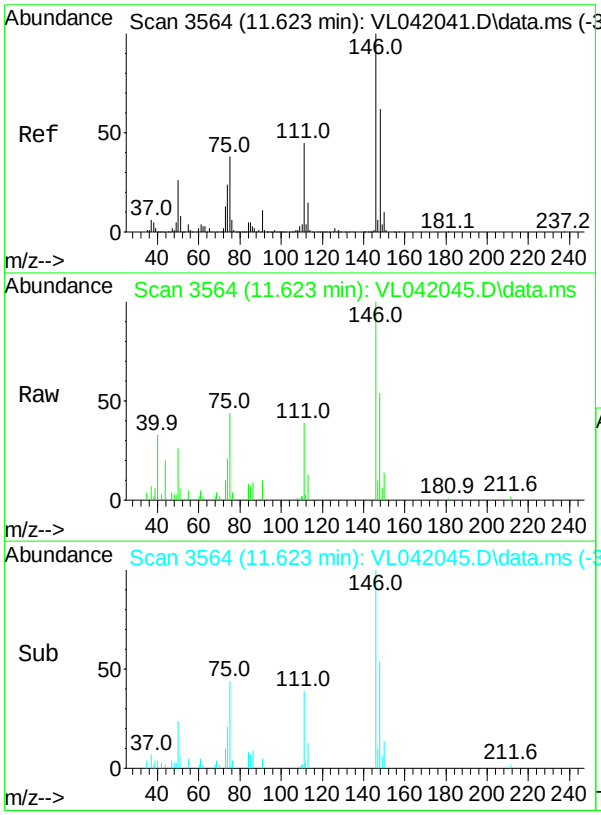


#74
1,2,4-Trimethylbenzene
Concen: 0.077 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:105 Resp: 5323

Ion	Ratio	Lower	Upper
105	100		
120	38.8	40.2	60.2#
91	66.0	51.4	77.2
77	19.0	20.1	30.1#

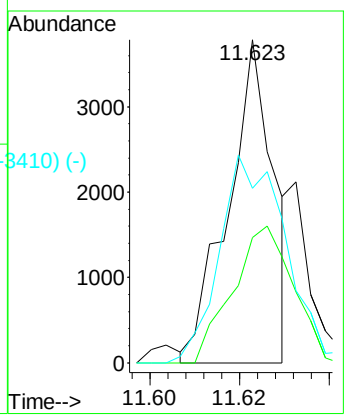


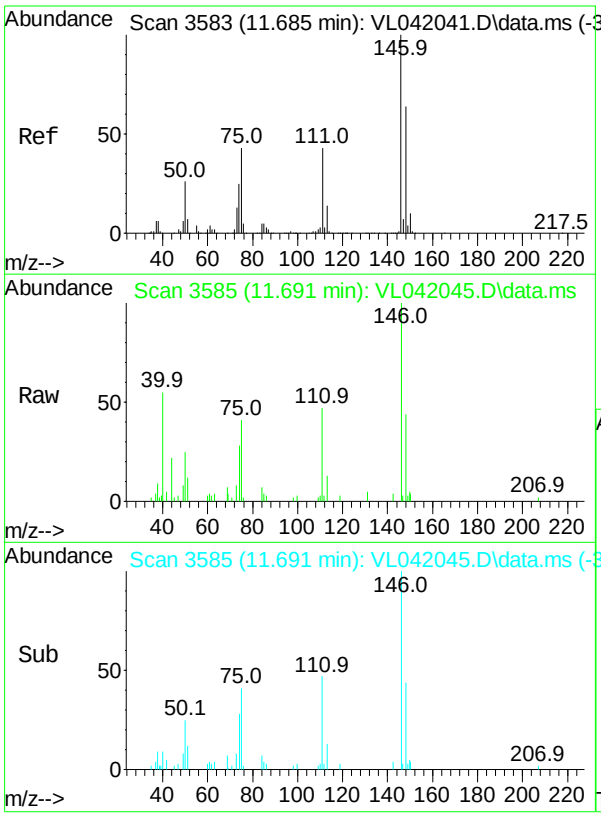


#75
1,3-Dichlorobenzene
Concen: 0.072 ppbv
RT: 11.623 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:146 Resp: 2662

Ion	Ratio	Lower	Upper
146	100		
111	56.5	22.4	67.2
148	93.2	32.3	96.8

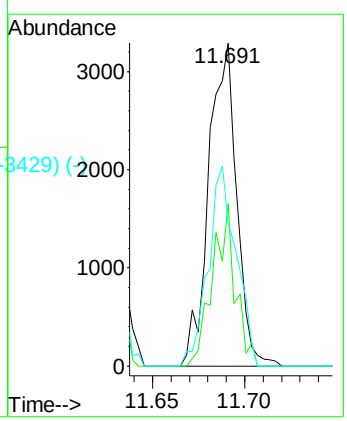




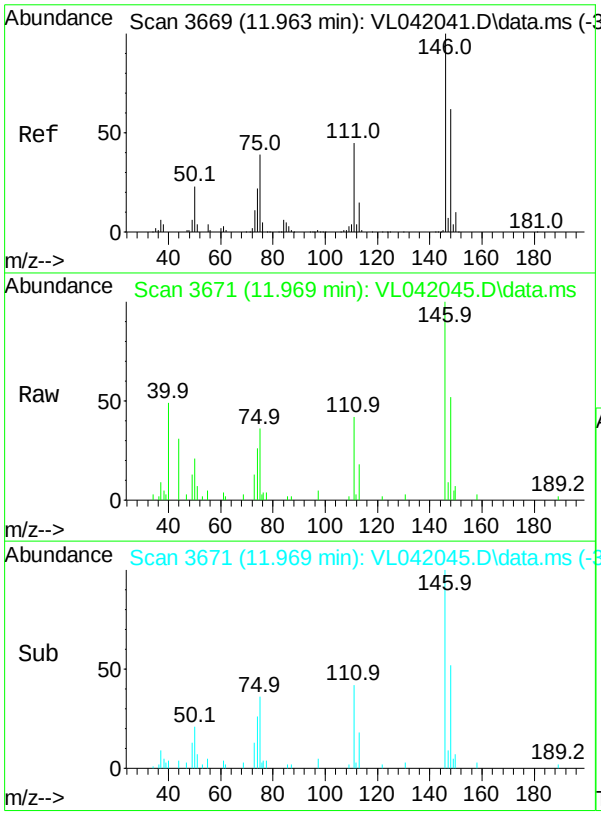
#76
1,4-Dichlorobenzene
Concen: 0.096 ppbv
RT: 11.691 min Scan# 3585
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:146 Resp: 3477

Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.5	64.5
148	61.8	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

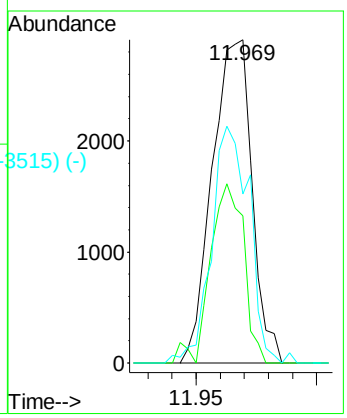


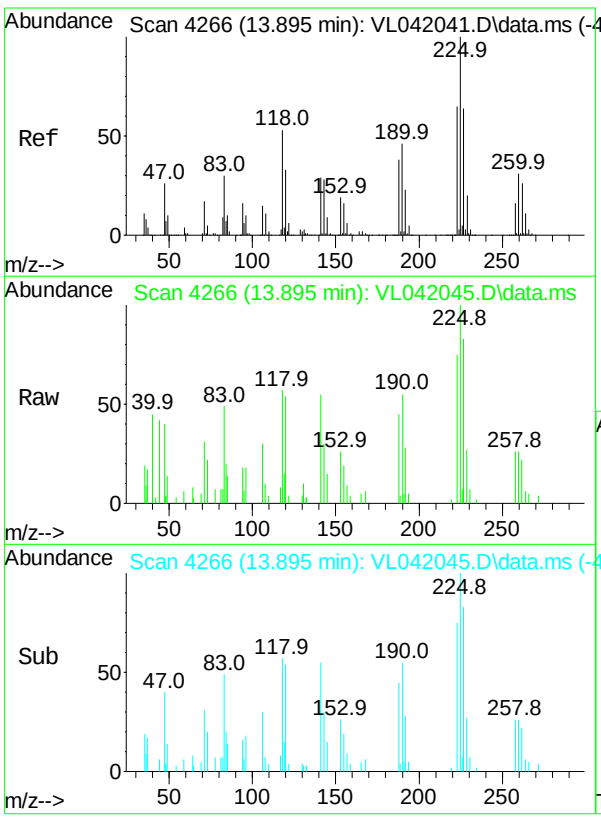
#57
1,2-Dichlorobenzene
Concen: 0.094 ppbv
RT: 11.969 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:146 Resp: 3344

Ion	Ratio	Lower	Upper
146	100		
111	46.9	23.2	69.6
148	69.8	31.4	94.2

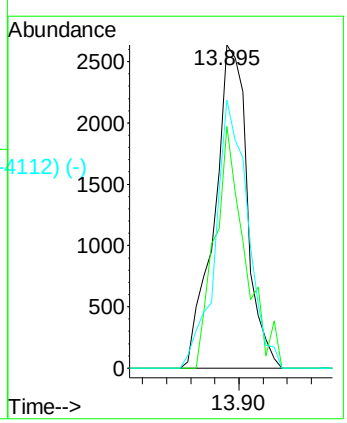


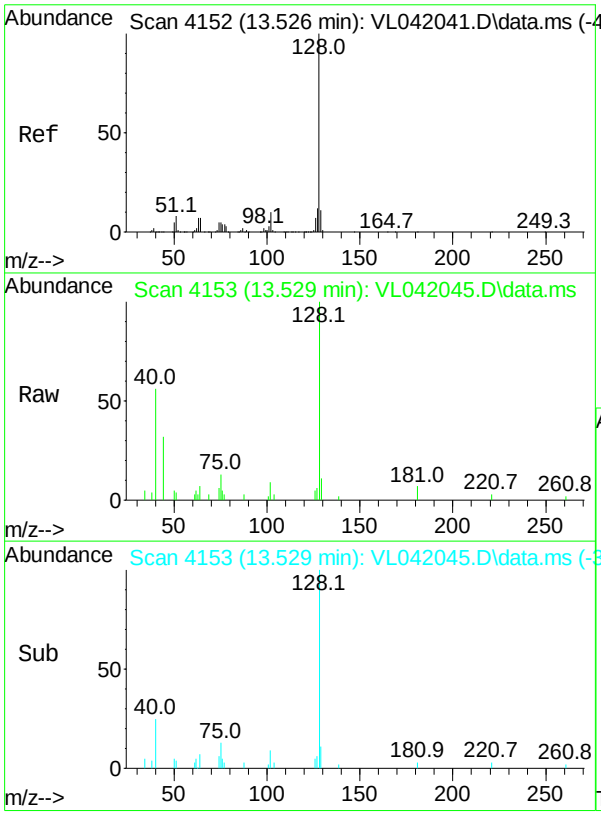


#58
Hexachloro-1,3-Butadiene
Concen: 0.085 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:225 Resp: 2487

Ion	Ratio	Lower	Upper
225	100		
223	68.4	50.2	75.2
227	81.9	50.8	76.2#

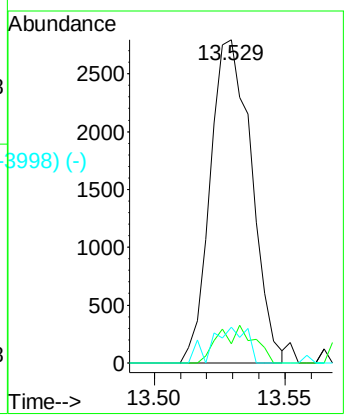


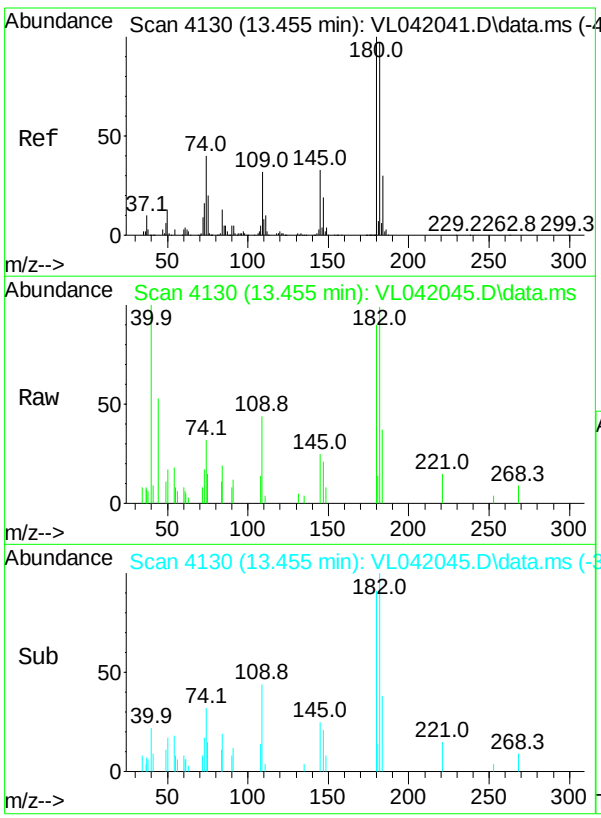


#79
Naphthalene
Concen: 0.045 ppbv
RT: 13.529 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:128 Resp: 3058

Ion	Ratio	Lower	Upper
128	100		
127	5.9	9.8	14.6#
129	11.1	8.6	12.8

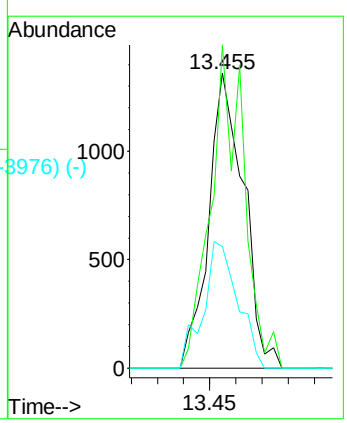




#81
1,2,4-Trichlorobenzene
Concen: 0.046 ppbv
RT: 13.455 min Scan# 4130
Delta R.T. -0.000 min
Lab File: VL042045.D
Acq: 25 Feb 2025 11:03

Tgt Ion:180 Resp: 1262

Ion	Ratio	Lower	Upper
180	100		
182	104.4	75.1	112.7
184	42.4	23.8	35.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quantitation Report (Not Reviewed)

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery =	93.700%		
Target Compounds						Qvalue
9) Propene	1.489	41	666	0.051	ppbv	# 73
13) Ethanol	1.732	45	132	0.089	ppbv	# 1
15) Acetone	1.842	43	2306	0.087	ppbv	# 83
16) 1,3-Butadiene	1.612	39	451	0.036	ppbv	# 77
19) Isopropyl Alcohol	1.894	45	725	0.049	ppbv	# 32
20) Methylene Chloride	2.065	84	531	0.053	ppbv	# 81
23) Vinyl Acetate	2.463	43	1056	0.074	ppbv	# 1
34) 2-Butanone	2.577	43	1626	0.046	ppbv	93
39) 1,2-Dichloropropane	3.975	63	107084	5.868	ppbv	# 23
74) 1,2,4-Trimethylbenzene	11.545	105	2008	0.030	ppbv	# 90
75) 1,3-Dichlorobenzene	11.623	146	1244	0.035	ppbv	91
77) 1,2-Dichlorobenzene	11.960	146	1261	0.037	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	1218	0.043	ppbv	# 91

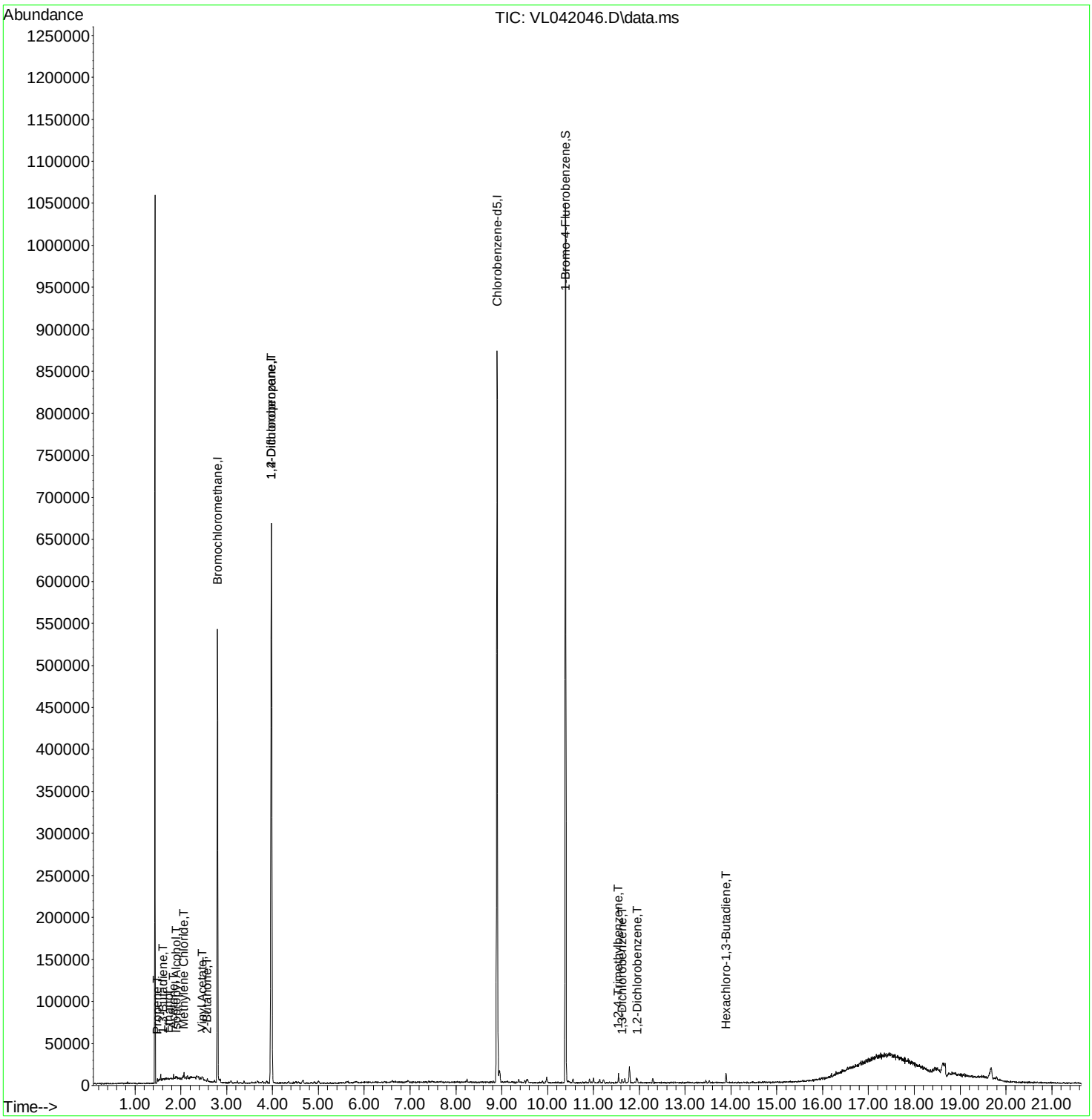
(#) = qualifier out of range (m) = manual integration (+) = signals summed

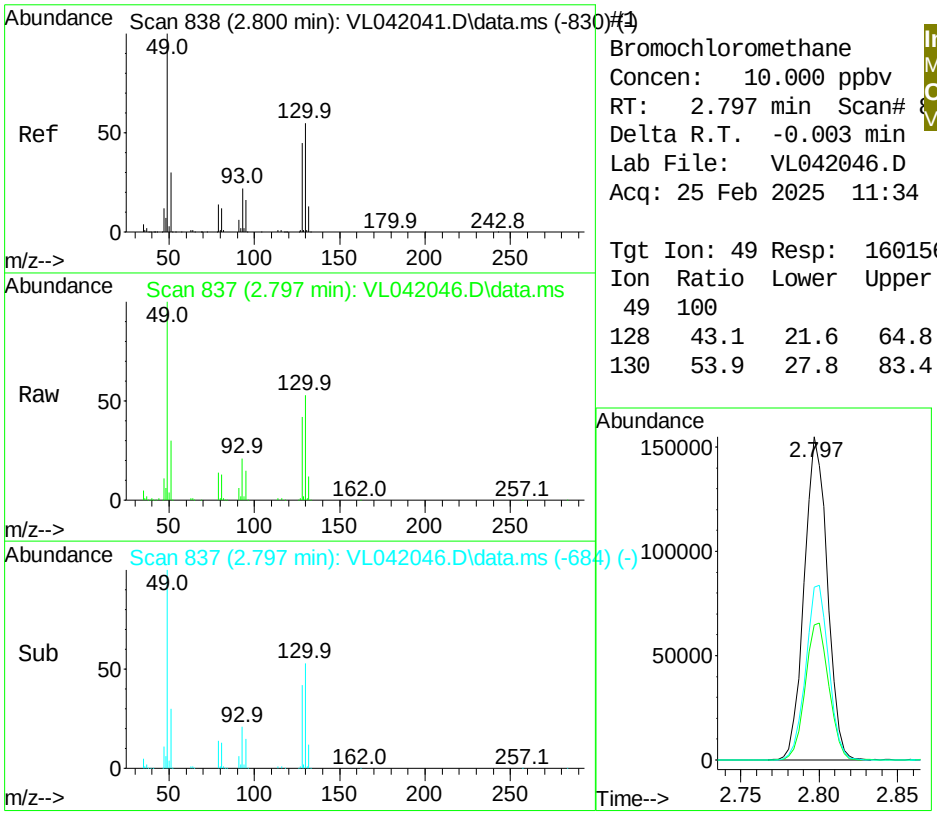
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VSTDICC0.03

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



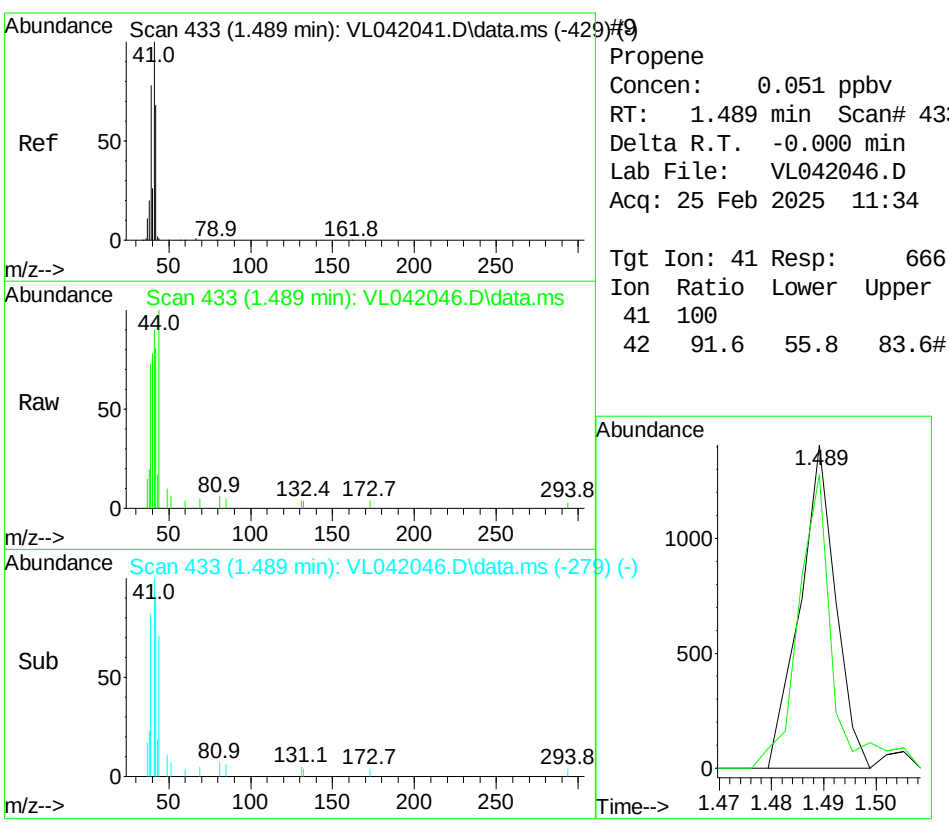


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 160156

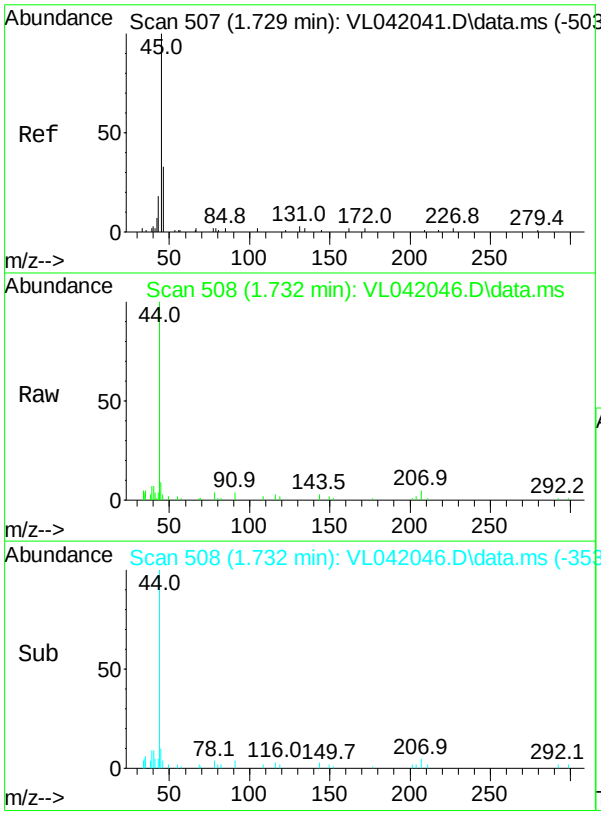
Ion	Ratio	Lower	Upper
49	100		
128	43.1	21.6	64.8
130	53.9	27.8	83.4



#9
Propene
Concen: 0.051 ppbv
RT: 1.489 min Scan# 433
Delta R.T. -0.000 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion: 41 Resp: 666

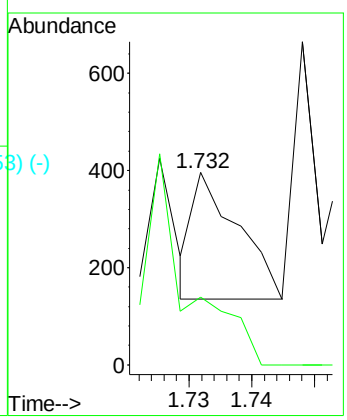
Ion	Ratio	Lower	Upper
41	100		
42	91.6	55.8	83.6#



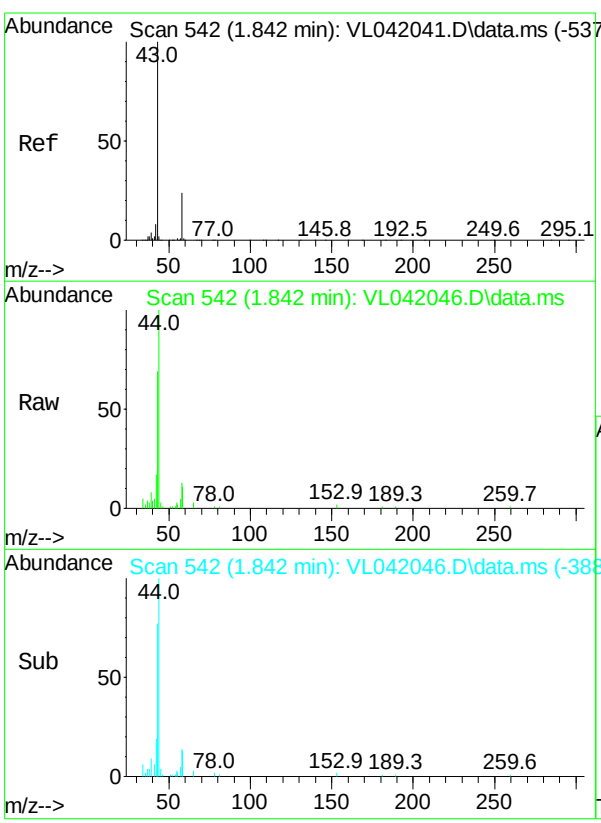
#13
Ethanol
Concen: 0.089 ppbv
RT: 1.732 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion: 45 Resp: 132

Ion	Ratio	Lower	Upper
45	100		
46	236.4	17.1	68.3#



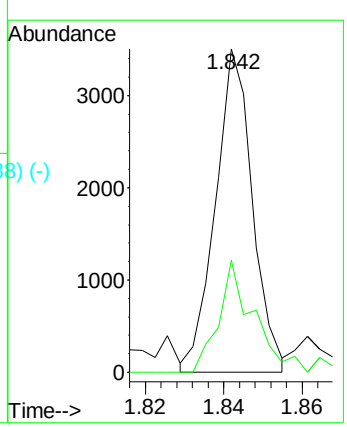
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



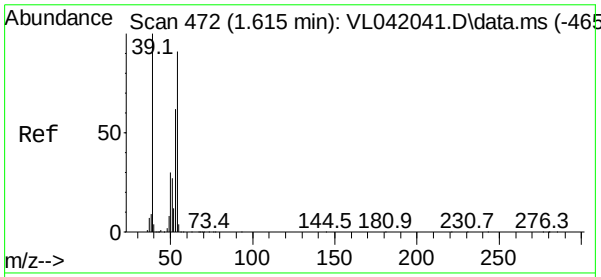
#15
Acetone
Concen: 0.087 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion: 43 Resp: 2306

Ion	Ratio	Lower	Upper
43	100		
58	34.6	20.7	31.1#



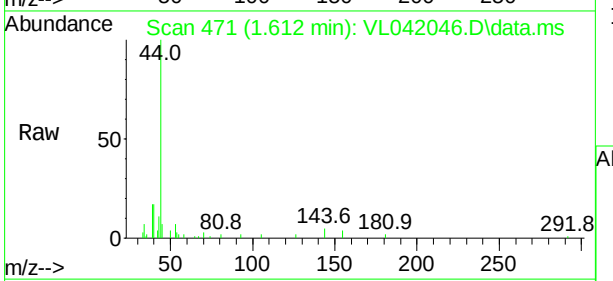
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

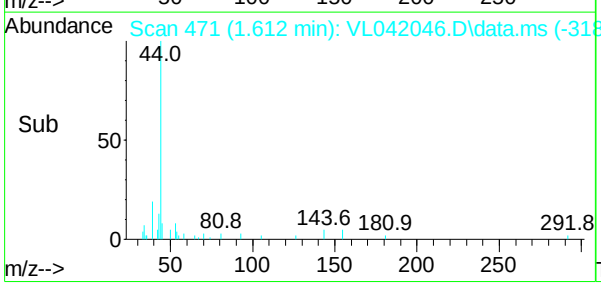


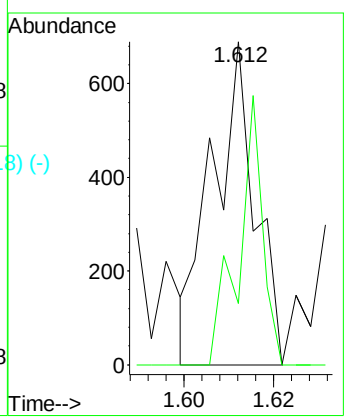
#16
1,3-Butadiene
Concen: 0.036 ppbv
RT: 1.612 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

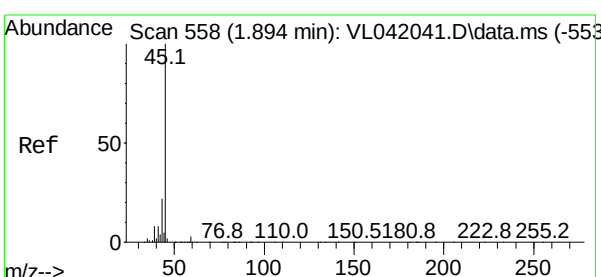
Tgt Ion: 39 Resp: 451

Ion	Ratio	Lower	Upper
39	100		
54	55.0	59.6	89.4#





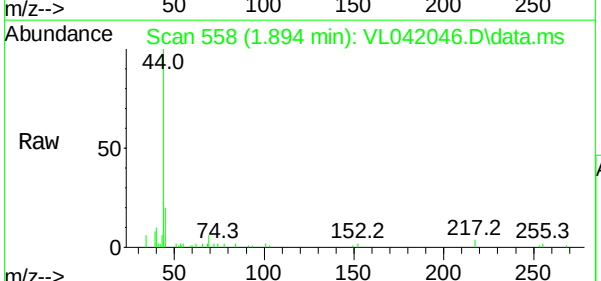


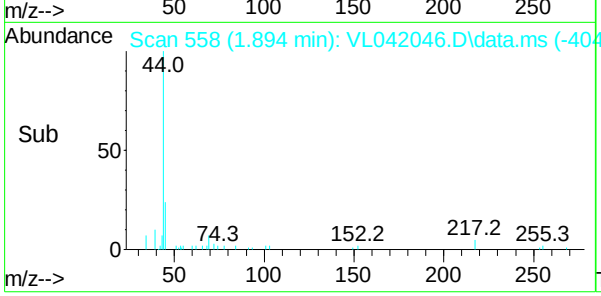


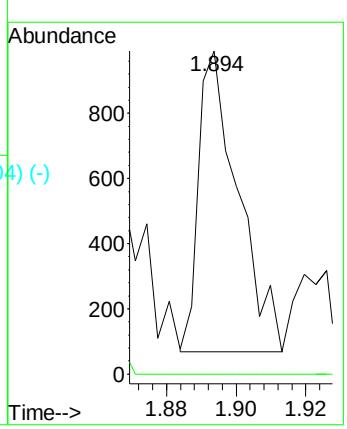
#19
Isopropyl Alcohol
Concen: 0.049 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

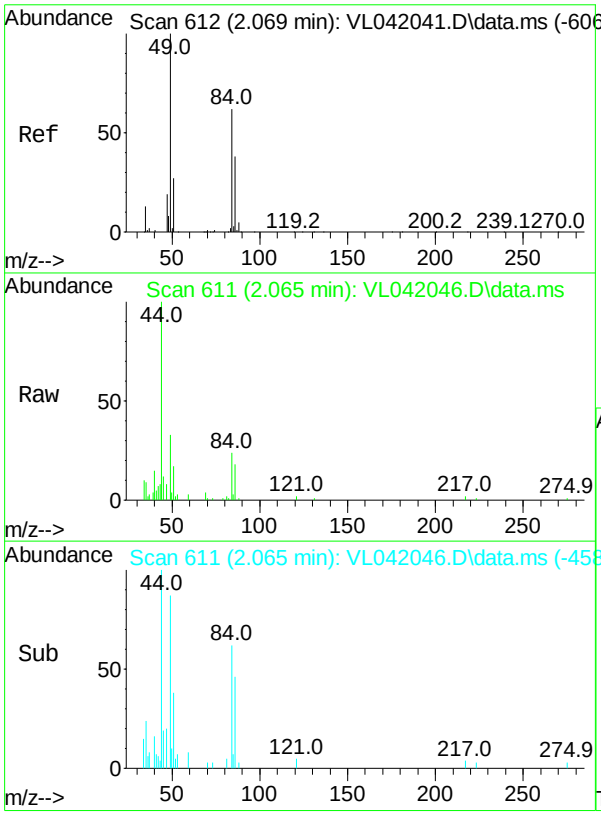
Tgt Ion: 45 Resp: 725

Ion	Ratio	Lower	Upper
45	100		
58	0.0	35.3	52.9#





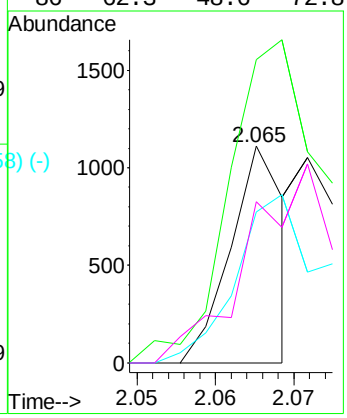


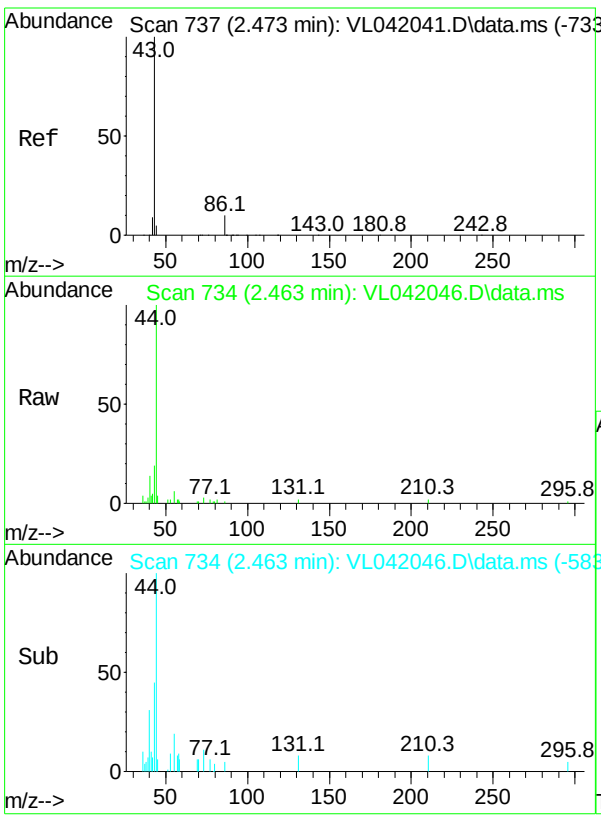


#20
Methylene Chloride
Concen: 0.053 ppbv
RT: 2.065 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion: 84 Resp: 531

Ion	Ratio	Lower	Upper
84	100		
49	131.5	130.0	195.0
51	64.8	37.4	56.0#
86	62.3	48.6	72.8

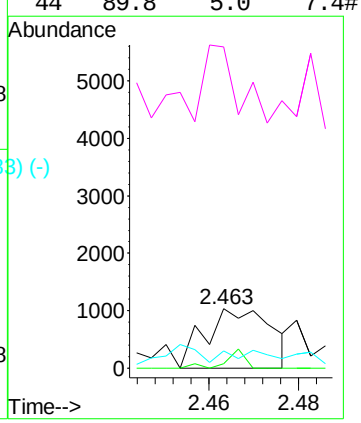




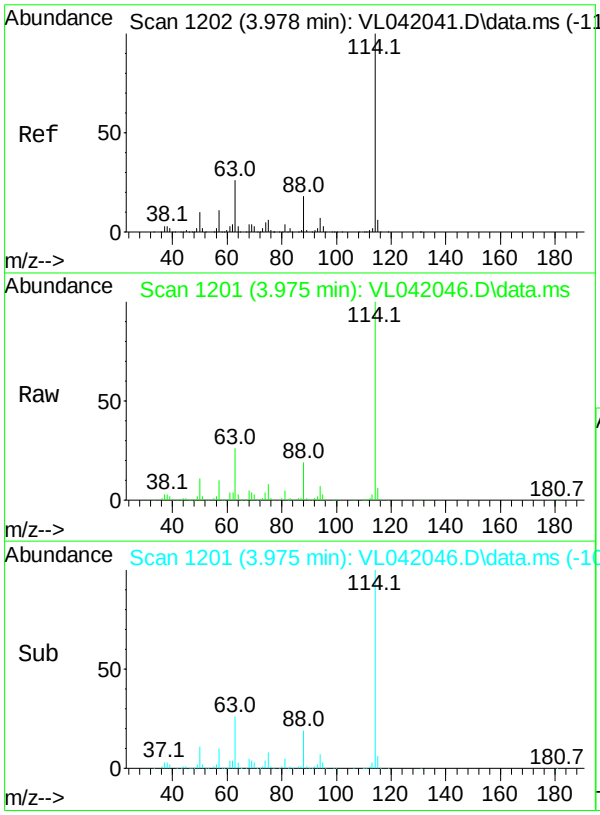
#23
Vinyl Acetate
Concen: 0.074 ppbv
RT: 2.463 min Scan# 734
Delta R.T. -0.010 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion: 43 Resp: 1056

Ion	Ratio	Lower	Upper
43	100		
86	7.3	7.0	10.4
42	112.8	7.6	11.4#
44	89.8	5.0	7.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

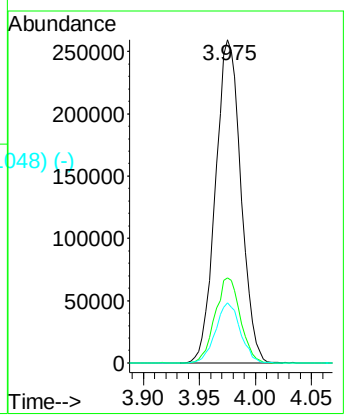


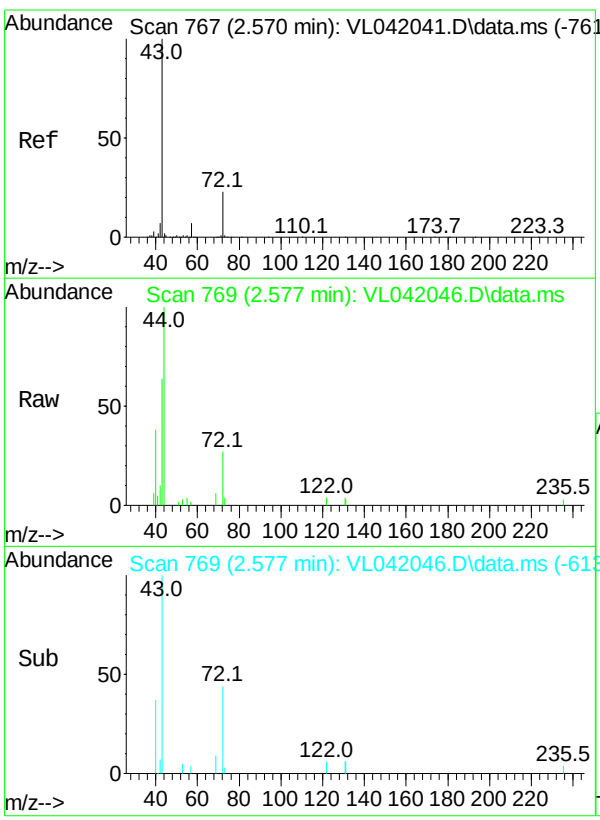
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:114 Resp: 410900

Ion	Ratio	Lower	Upper
114	100		
63	26.1	20.1	30.1
88	18.1	14.3	21.5

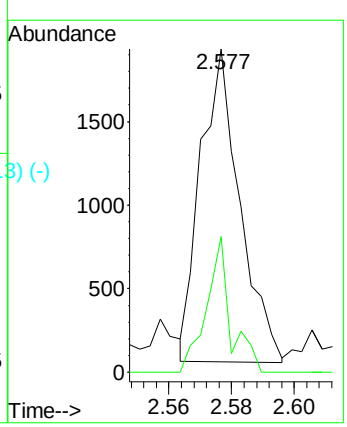


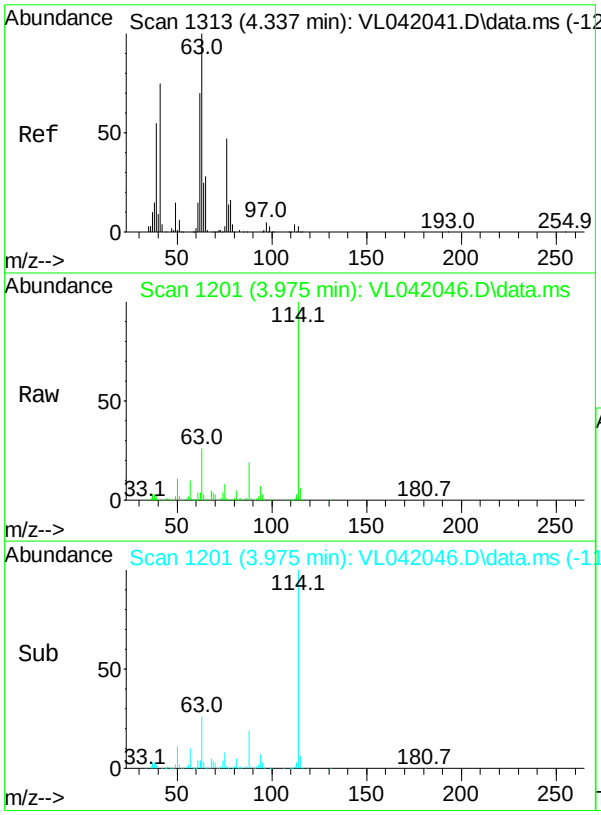


#34
2-Butanone
Concen: 0.046 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.006 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion: 43 Resp: 1626

Ion	Ratio	Lower	Upper
43	100		
72	26.4	18.5	27.7



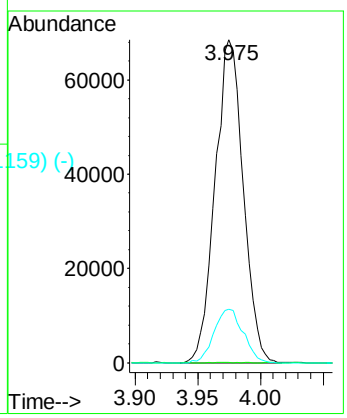


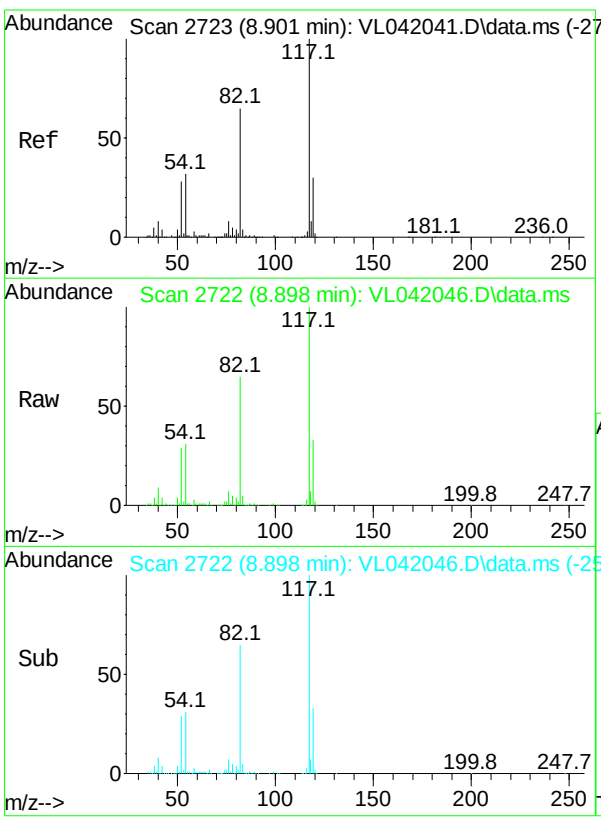
#89
1,2-Dichloropropane
Concen: 5.868 ppbv
RT: 3.975 min Scan# 1
Delta R.T. -0.363 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 63 Resp: 107084

Ion	Ratio	Lower	Upper
63	100		
41	0.2	60.1	90.1#
62	16.7	55.8	83.8#

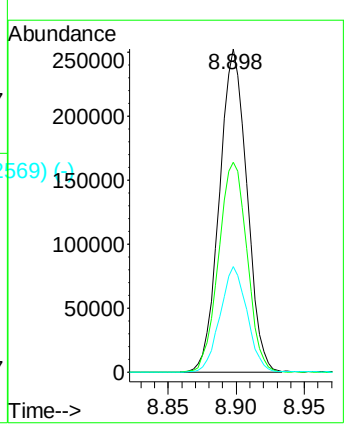


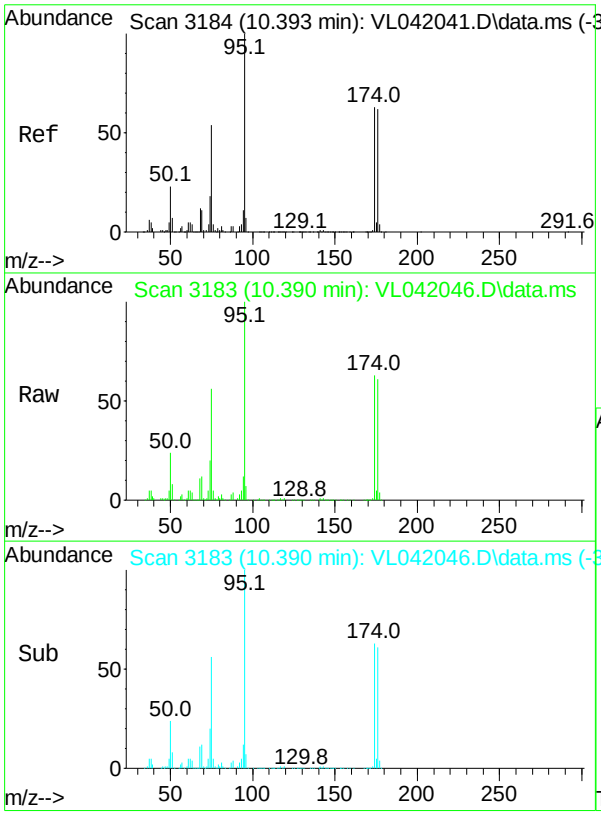


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion:117 Resp: 353154

Ion	Ratio	Lower	Upper
117	100		
82	67.3	55.0	82.6
119	32.2	25.9	38.9



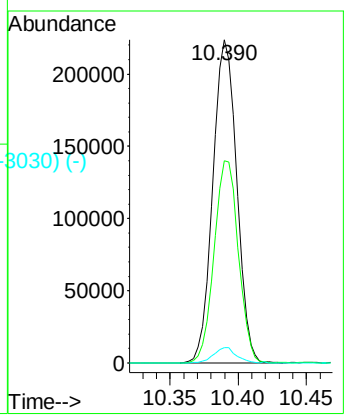


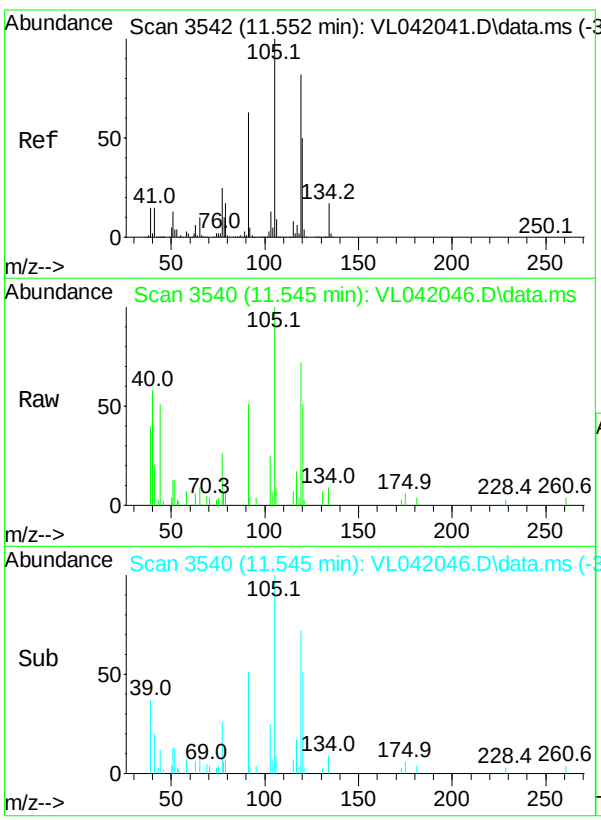
#68
1-Bromo-4-Fluorobenzene
Concen: 9.368 ppbv
RT: 10.390 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 95 Resp: 272906

Ion	Ratio	Lower	Upper
95	100		
174	63.3	51.8	77.6
175	4.5	3.9	5.9

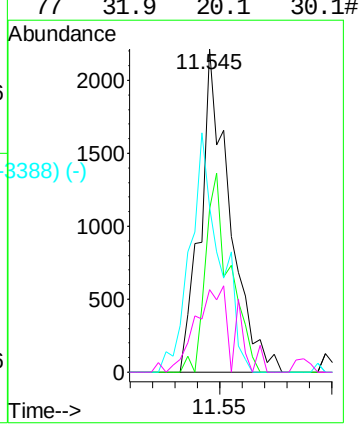


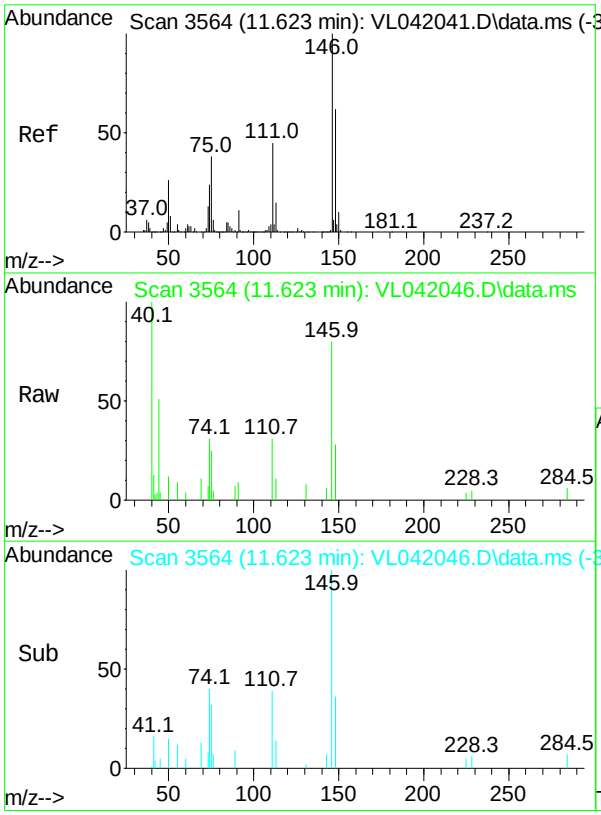


#74
1,2,4-Trimethylbenzene
Concen: 0.030 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.007 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion:105 Resp: 2008

Ion	Ratio	Lower	Upper
105	100		
120	50.5	40.2	60.2
91	51.0	51.4	77.2#
77	31.9	20.1	30.1#

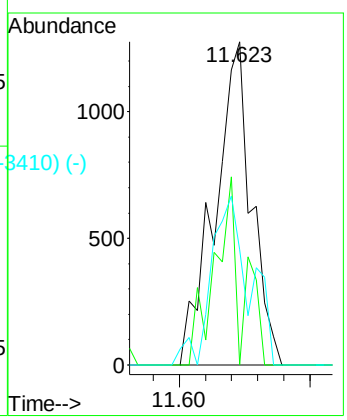




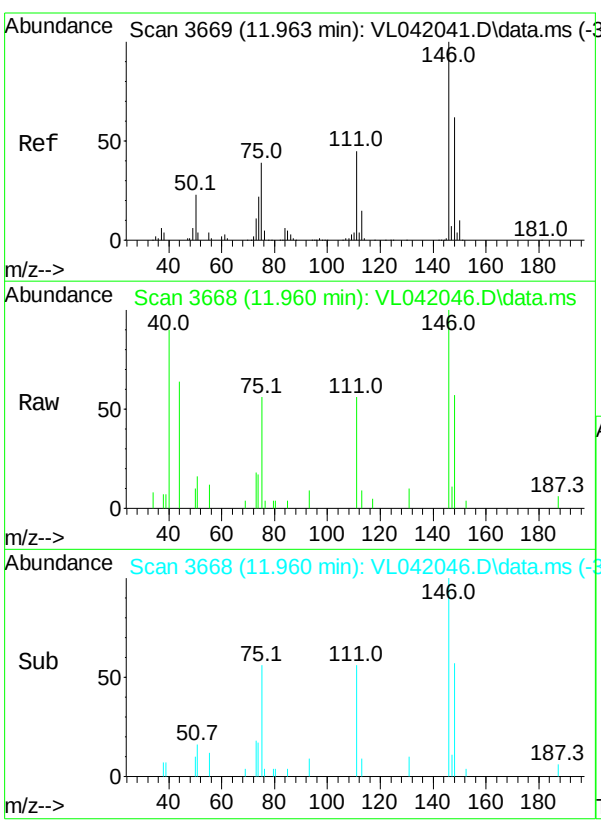
#75
1,3-Dichlorobenzene
Concen: 0.035 ppbv
RT: 11.623 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion:146 Resp: 1244

Ion	Ratio	Lower	Upper
146	100		
111	43.1	22.4	67.2
148	54.5	32.3	96.8



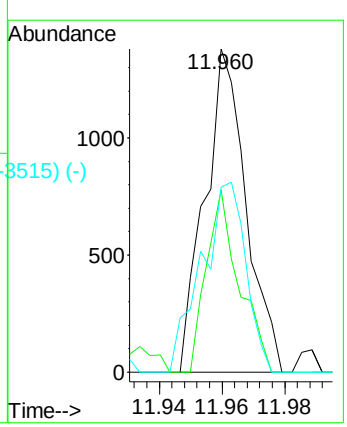
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

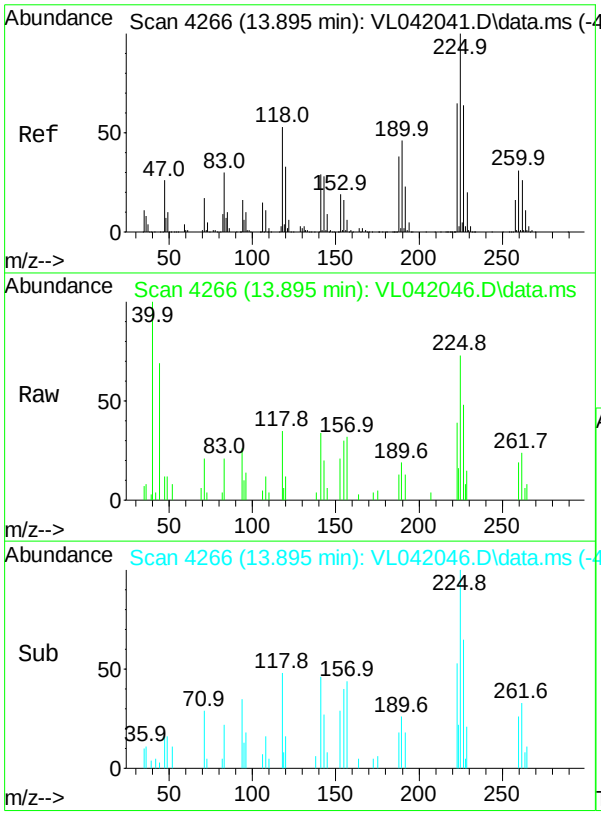


#77
1,2-Dichlorobenzene
Concen: 0.037 ppbv
RT: 11.960 min Scan# 3668
Delta R.T. -0.003 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion:146 Resp: 1261

Ion	Ratio	Lower	Upper
146	100		
111	49.9	23.2	69.6
148	63.1	31.4	94.2

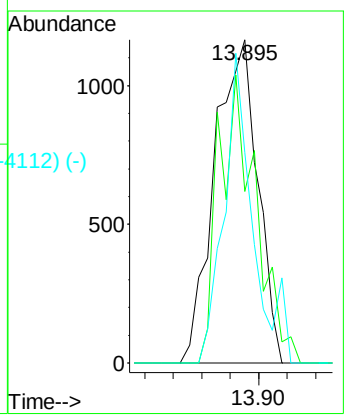




#78
Hexachloro-1,3-Butadiene
Concen: 0.043 ppbv
RT: 13.895 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042046.D
Acq: 25 Feb 2025 11:34

Tgt Ion:225 Resp: 1218

Ion	Ratio	Lower	Upper
225	100		
223	76.8	50.2	75.2#
227	63.8	50.8	76.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VSTDICC015

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	159015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	401919	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	351637	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	273846	9.441	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery =	94.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	231978	8.474	ppbv	99
3) Chlorodifluoromethane	1.479	51	324821	10.733	ppbv	100
4) Chloromethane	1.537	50	82097	7.718	ppbv	98
5) Vinyl Chloride	1.586	62	81863	6.436	ppbv	99
6) Bromomethane	1.673	94	39366	7.983	ppbv	97
7) Chloroethane	1.709	64	33329	8.039	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	188716	7.837	ppbv	98
9) Propene	1.489	41	133086	10.201	ppbv	97
10) Heptane	5.004	43	400418	11.052	ppbv	99
11) Trichlorofluoromethane	1.884	101	230938	8.383	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	184306	8.579	ppbv	99
13) Ethanol	1.725	45	4281	2.909	ppbv	100
14) Bromoethene	1.787	108	65496	8.164	ppbv	99
15) Acetone	1.842	43	172538	6.574	ppbv	98
16) 1,3-Butadiene	1.615	39	87490	7.027	ppbv	100
17) tert-Butyl alcohol	2.049	59	239569	7.377	ppbv	98
18) 1,1-Dichloroethene	2.042	96	80535	7.845	ppbv	98
19) Isopropyl Alcohol	1.894	45	102365	6.955	ppbv	99
20) Methylene Chloride	2.068	84	66282	6.709	ppbv	98
21) Allyl Chloride	2.104	41	140726	7.406	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	94321	8.466	ppbv	95
23) Vinyl Acetate	2.473	43	139727	9.831	ppbv	99
24) 1,1-Dichloroethane	2.418	63	180882	7.997	ppbv	99
25) Ethyl Acetate	2.848	43	767353	10.652	ppbv	99
26) Hexane	2.839	57	306864	10.615	ppbv	99
27) Carbon Disulfide	2.159	76	224609	8.261	ppbv	98
28) Methyl tert-Butyl Ether	2.453	73	168058	9.510	ppbv	98
29) Chloroform	2.861	83	409240	9.774	ppbv	100
30) Cyclohexane	3.874	84	256687	10.946	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	299324	10.476	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	417615	8.994	ppbv	98
34) 2-Butanone	2.570	43	457602	13.234	ppbv	98
35) Carbon Tetrachloride	3.780	117	410730	10.524	ppbv	96
36) Benzene	3.674	78	602107	12.367	ppbv	97
37) 1,2-Dichloroethane	3.233	62	335275	12.097	ppbv	99
38) Trichloroethene	4.573	130	228298	11.542	ppbv	98
39) 1,2-Dichloropropane	4.337	63	228418	12.797	ppbv	98
40) 1,4-Dioxane	4.609	88	104519	11.253	ppbv #	96
41) Tetrahydrofuran	3.068	42	271202	13.724	ppbv	100
42) Bromodichloromethane	4.512	83	461272	12.285	ppbv	96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VSTDICC015

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

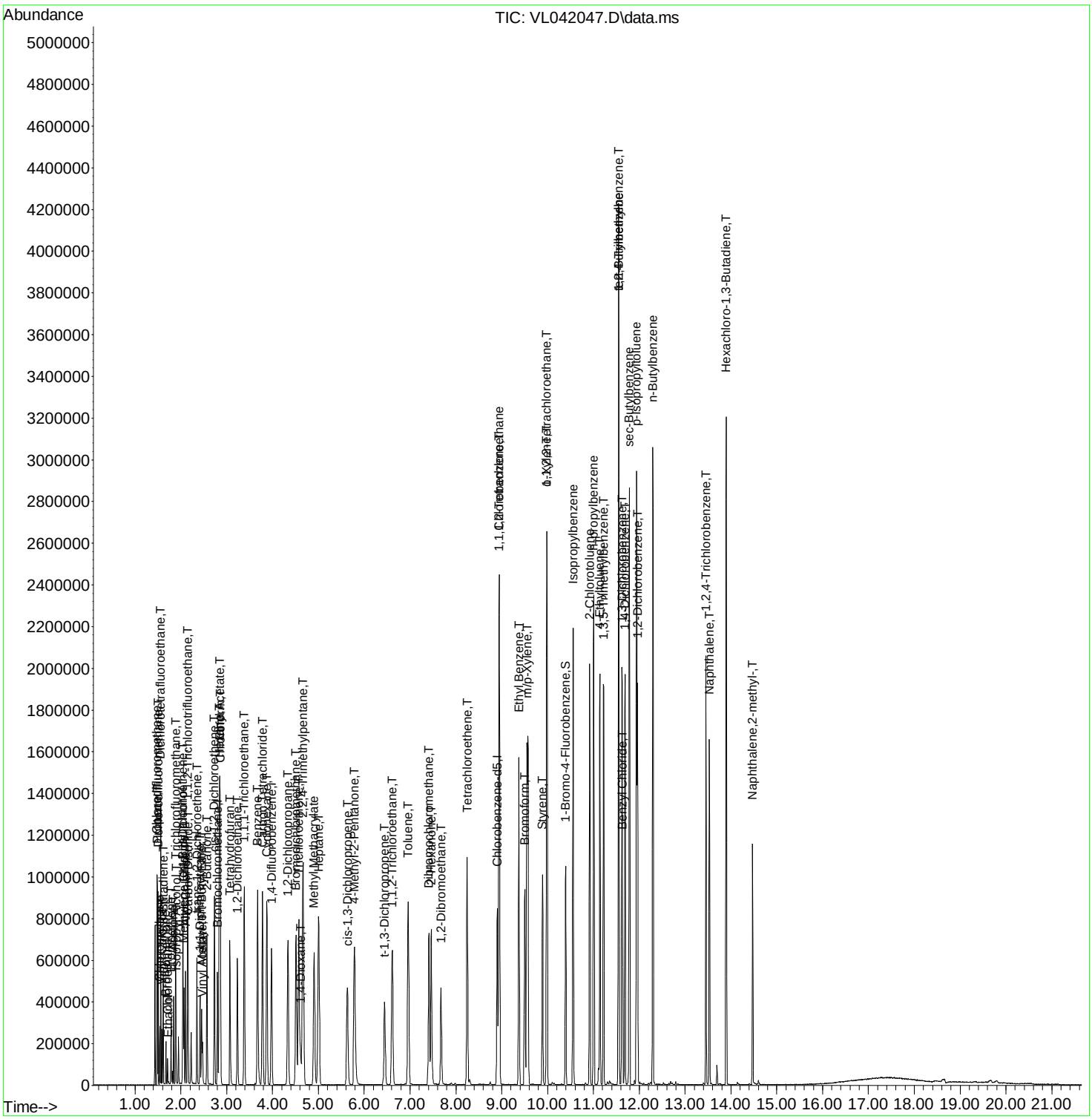
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Methyl Methacrylate	4.907	69	246468	11.105	ppbv		97
44) 2,2,4-Trimethylpentane	4.667	57	1054880	12.763	ppbv		99
45) t-1,3-Dichloropropene	6.444	75	249612	11.914	ppbv		95
46) cis-1,3-Dichloropropene	5.635	75	317266	11.935	ppbv		98
47) 1,1,2-Trichloroethane	6.609	97	226021	12.032	ppbv		95
48) Dibromochloromethane	7.412	129	369666	11.750	ppbv		99
49) Bromoform	9.503	173	317322	12.297	ppbv		99
50) 4-Methyl-2-Pentanone	5.787	43	650307	12.237	ppbv		99
51) 2-Hexanone	7.461	43	530165	12.198	ppbv	#	100
52) Tetrachloroethene	8.247	164	203233	11.968	ppbv		94
53) Toluene	6.959	91	673822	11.615	ppbv		99
54) 1,2-Dibromoethane	7.677	107	309982	11.985	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.946	131	276326	10.979	ppbv		99
57) Chlorobenzene	8.943	112	494606	11.957	ppbv		98
58) Ethyl Benzene	9.373	91	922265	11.984	ppbv		100
59) m/p-Xylene	9.551	91	770010	12.703	ppbv	#	100
60) o-Xylene	9.982	91	712735	11.626	ppbv		99
61) Styrene	9.888	104	363855	12.446	ppbv		99
62) Isopropylbenzene	10.558	105	1068777	11.612	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.982	83	459839	11.626	ppbv		100
64) n-propylbenzene	11.005	120	282364	12.486	ppbv		99
65) tert-Butylbenzene	11.548	119	924810	11.526	ppbv		99
66) Benzyl Chloride	11.633	91	78975	9.819	ppbv		98
67) sec-Butylbenzene	11.785	105	1315730	11.674	ppbv		99
69) p-Isopropyltoluene	11.940	119	1084253	11.752	ppbv		99
70) n-Butylbenzene	12.296	91	1118373	12.306	ppbv		99
71) 2-Chlorotoluene	10.917	91	818204	11.804	ppbv		100
72) 4-Ethyltoluene	11.141	105	880883	12.264	ppbv		99
73) 1,3,5-Trimethylbenzene	11.218	105	738619	11.921	ppbv		98
74) 1,2,4-Trimethylbenzene	11.552	105	784701	11.801	ppbv		91
75) 1,3-Dichlorobenzene	11.623	146	465436	13.003	ppbv		98
76) 1,4-Dichlorobenzene	11.688	146	467249	13.386	ppbv		99
77) 1,2-Dichlorobenzene	11.963	146	449222	13.129	ppbv		98
78) Hexachloro-1,3-Butadiene	13.895	225	351085	12.403	ppbv		100
79) Naphthalene	13.526	128	764990	11.696	ppbv		99
80) Naphthalene,2-methyl-	14.471	142	324431	10.956	ppbv		99
81) 1,2,4-Trichlorobenzene	13.455	180	354990	13.351	ppbv		99

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

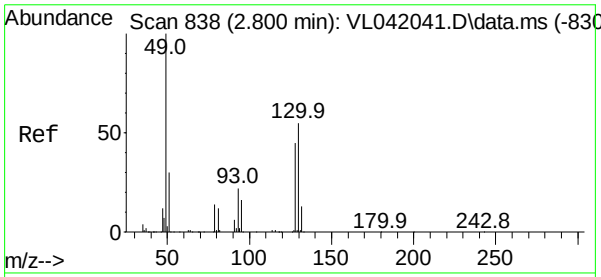
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



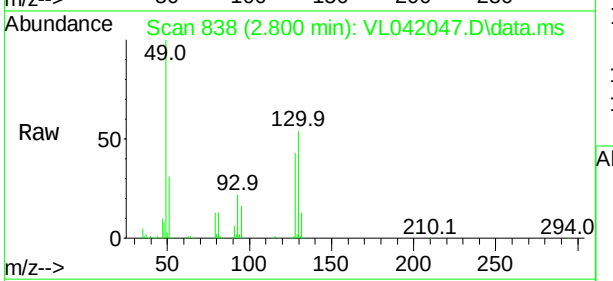
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

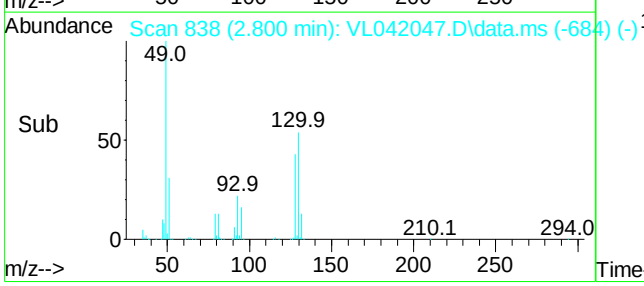


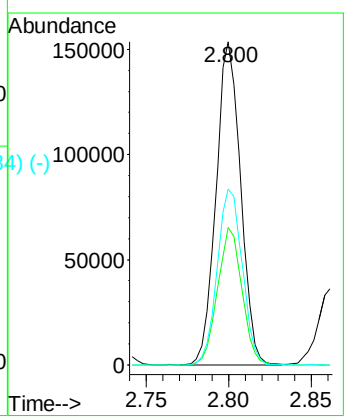
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

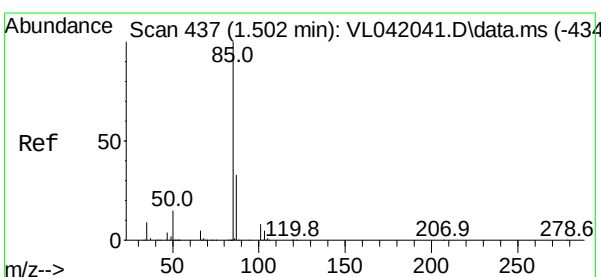
Tgt Ion: 49 Resp: 159015

Ion	Ratio	Lower	Upper
49	100		
128	42.1	21.6	64.8
130	55.6	27.8	83.4





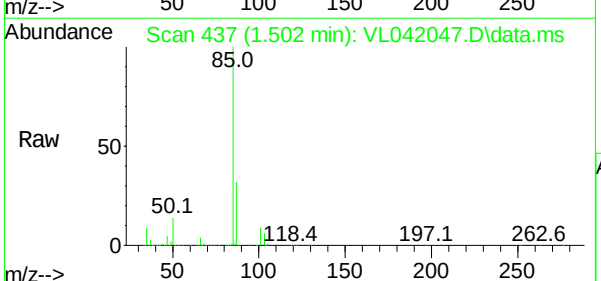


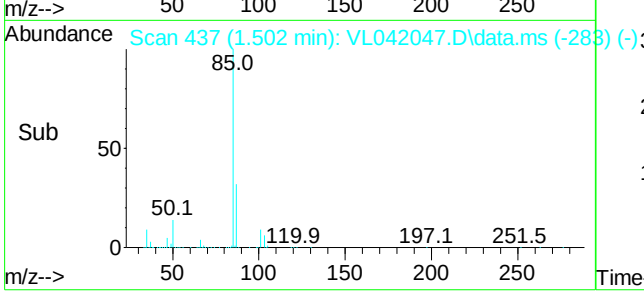


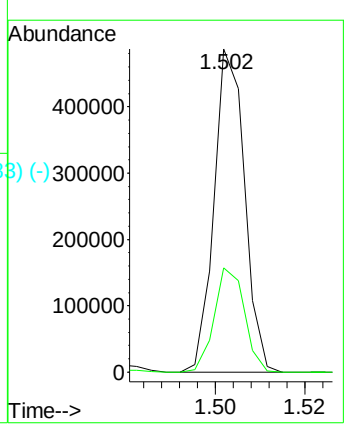
#2
Dichlorodifluoromethane
Concen: 8.474 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

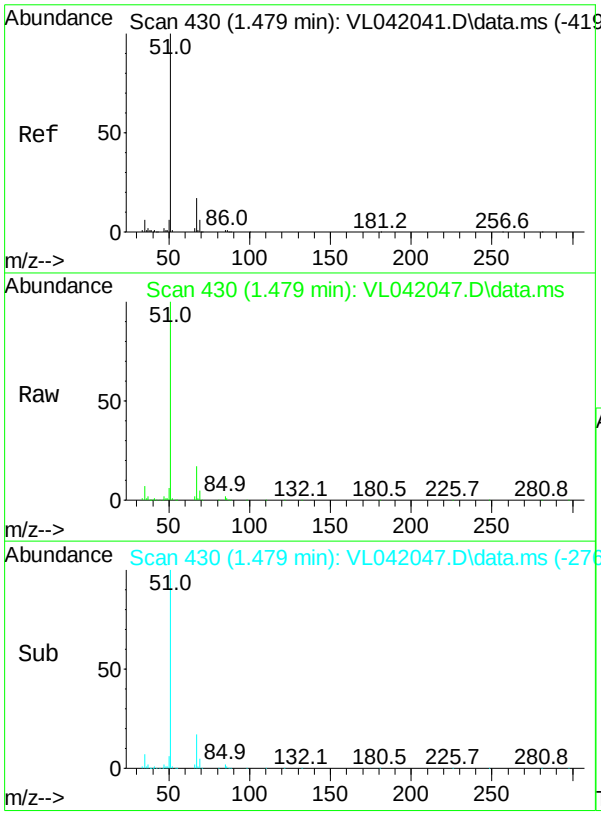
Tgt Ion: 85 Resp: 231978

Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.4	39.6





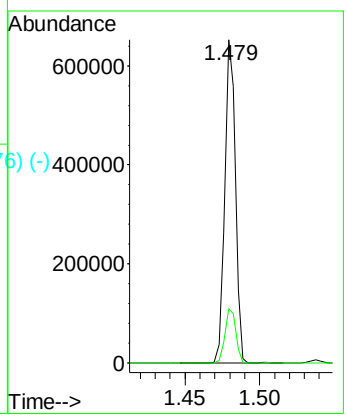




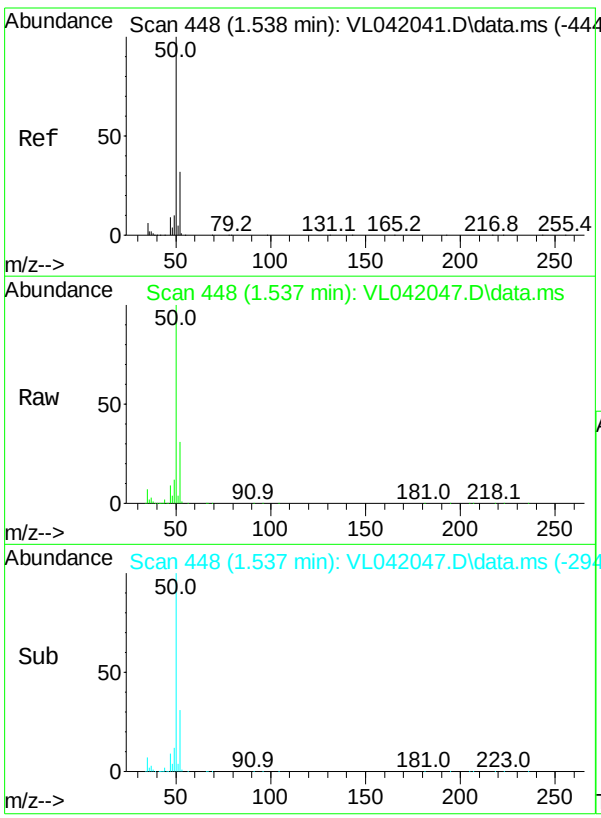
#3
Chlorodifluoromethane
Concen: 10.733 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 51 Resp: 324821

Ion	Ratio	Lower	Upper
51	100		
67	17.1	13.7	20.5



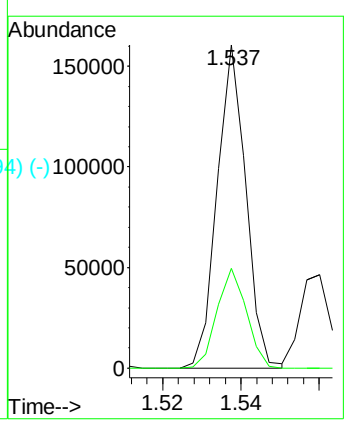
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

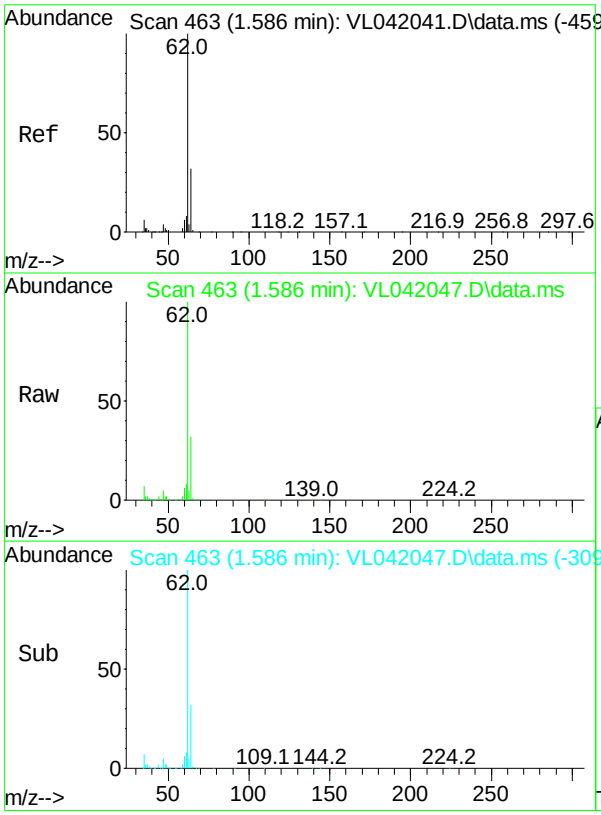


#4
Chloromethane
Concen: 7.718 ppbv
RT: 1.537 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 50 Resp: 82097

Ion	Ratio	Lower	Upper
50	100		
52	30.8	25.4	38.0

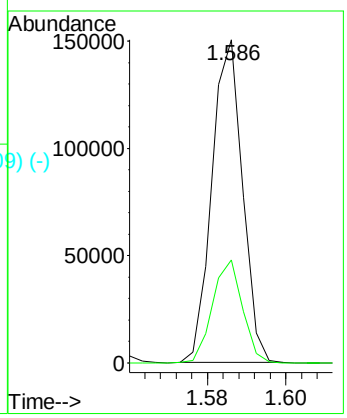


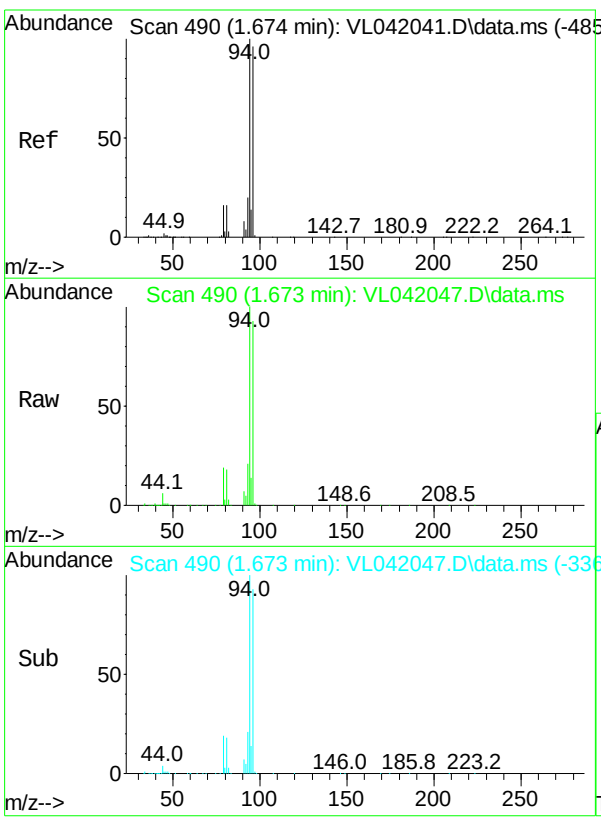


(5)
Vinyl Chloride
Concen: 6.436 ppbv
RT: 1.586 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 62 Resp: 81863

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.3	37.9

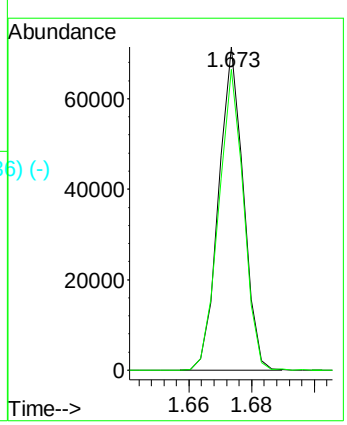




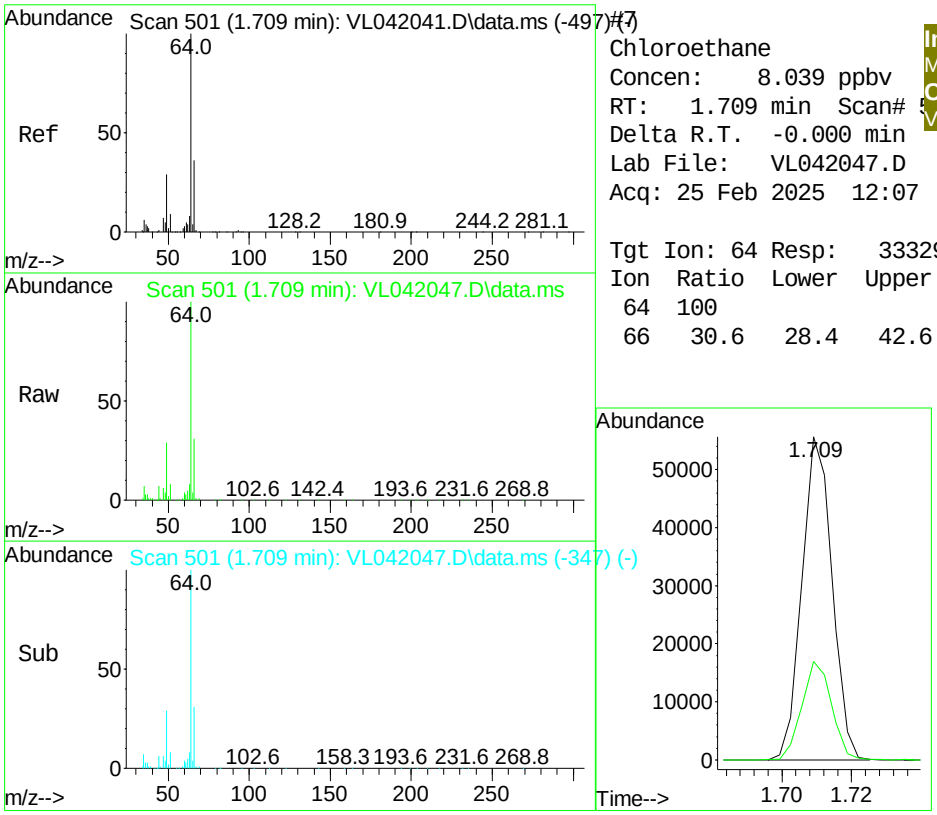
(6)
Bromomethane
Concen: 7.983 ppbv
RT: 1.673 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 94 Resp: 39366

Ion	Ratio	Lower	Upper
94	100		
96	93.0	76.5	114.7



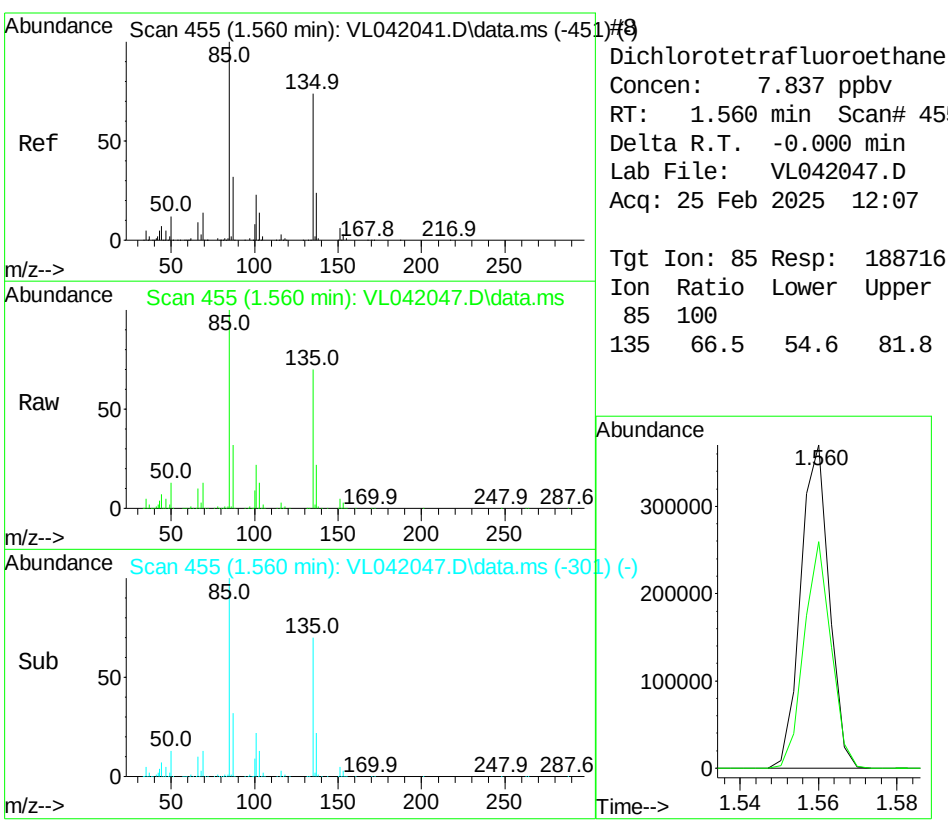
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



#7
Chloroethane
Concen: 8.039 ppbv
RT: 1.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 64 Resp: 33329

Ion	Ratio	Lower	Upper
64	100		
66	30.6	28.4	42.6

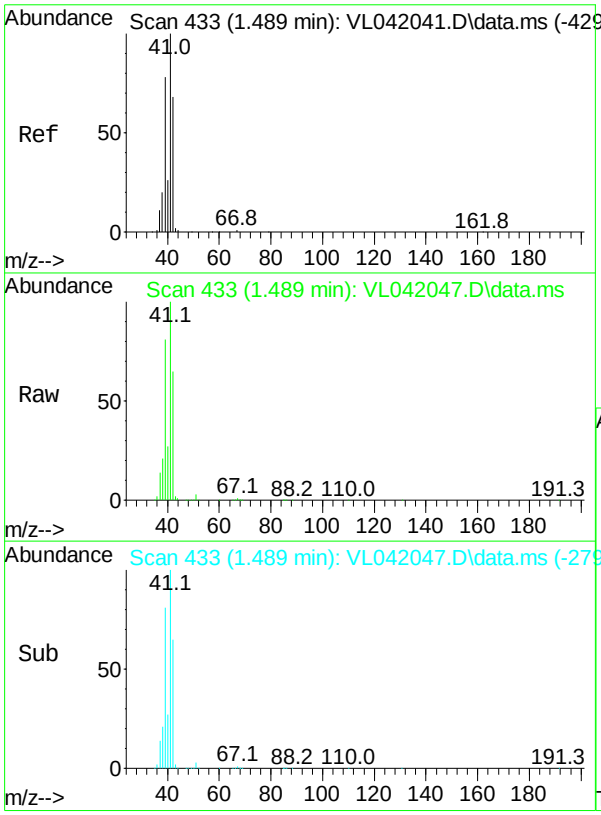


#8
Dichlorotetrafluoroethane
Concen: 7.837 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 85 Resp: 188716

Ion	Ratio	Lower	Upper
85	100		
135	66.5	54.6	81.8

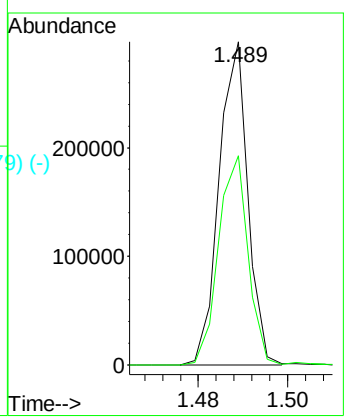
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

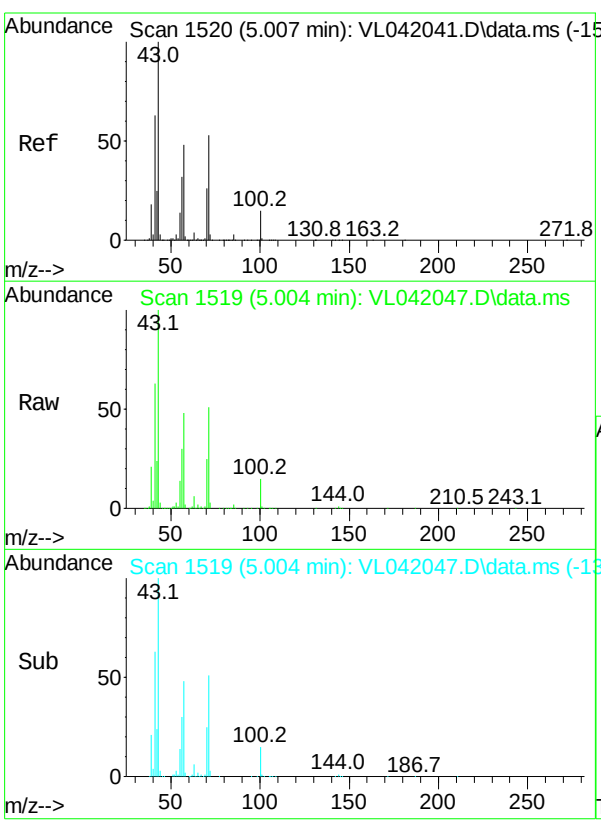


#9
Propene
Concen: 10.201 ppbv
RT: 1.489 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 41 Resp: 133086

Ion	Ratio	Lower	Upper
41	100		
42	67.4	55.8	83.6

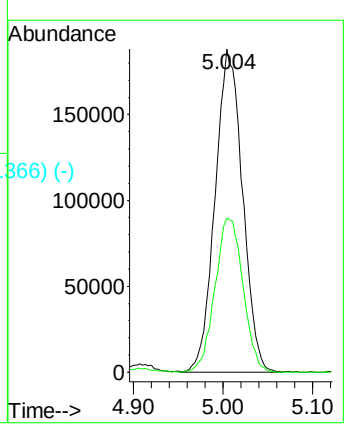




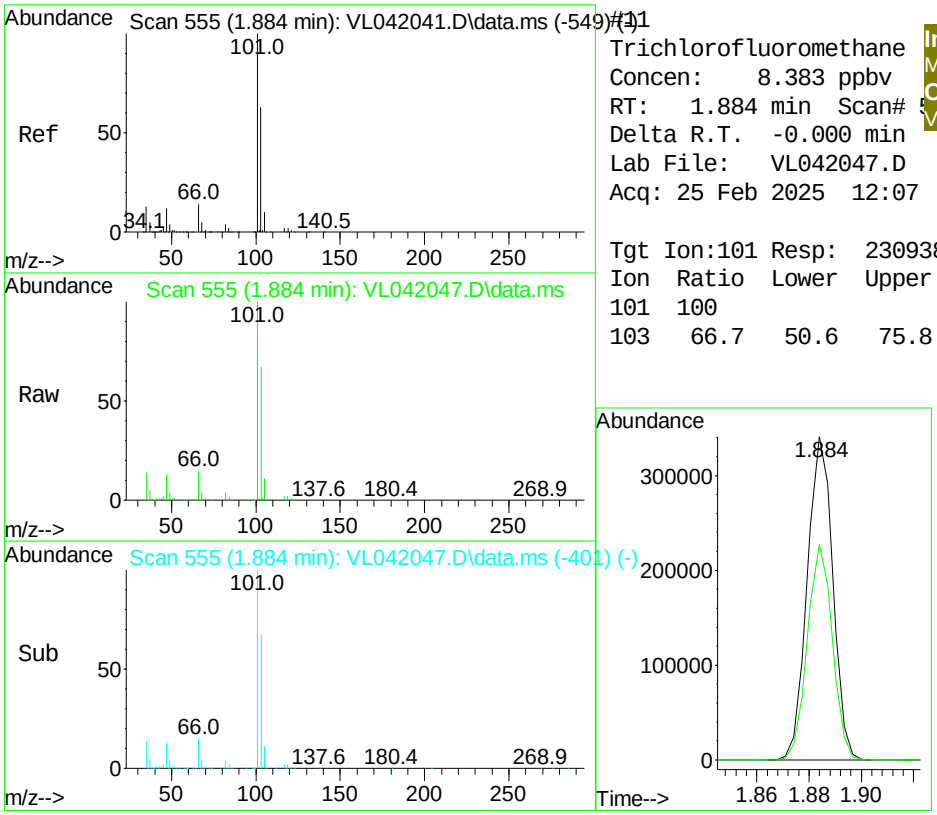
#10
Heptane
Concen: 11.052 ppbv
RT: 5.004 min Scan# 1519
Delta R.T. -0.004 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 400418

Ion	Ratio	Lower	Upper
43	100		
57	48.8	39.4	59.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

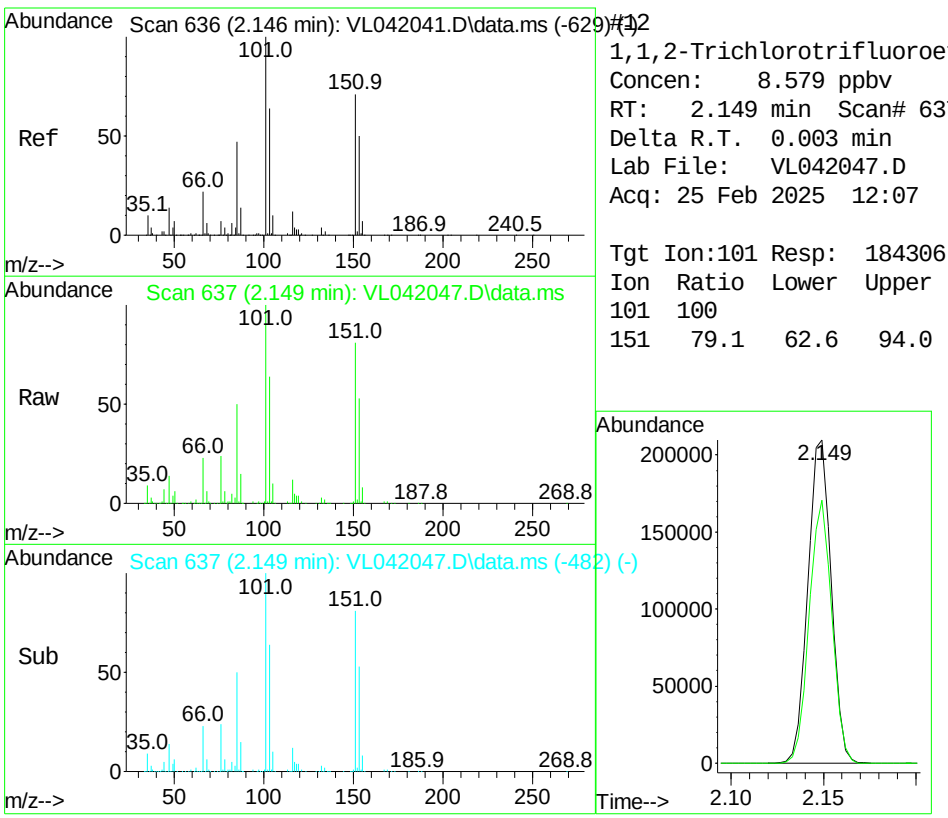


#11
Trichlorofluoromethane
Concen: 8.383 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:101 Resp: 230938

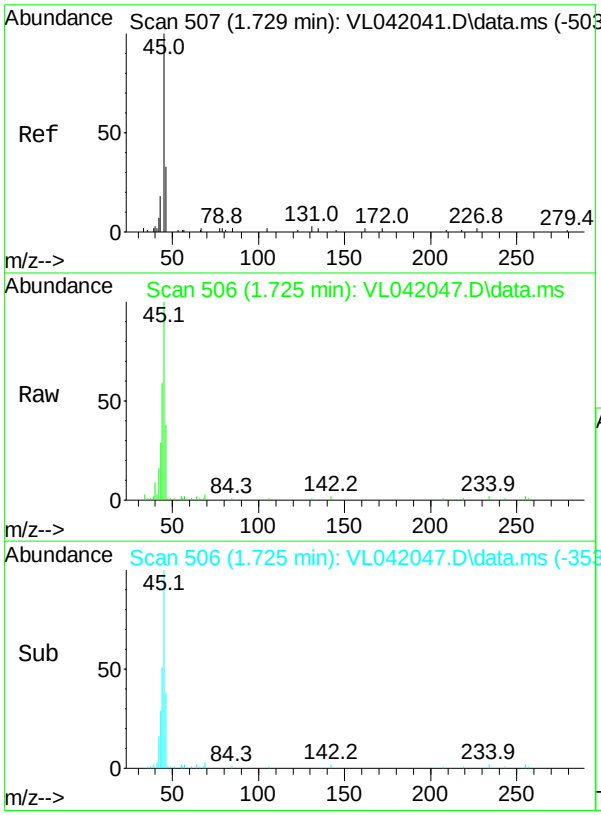
Ion	Ratio	Lower	Upper
101	100		
103	66.7	50.6	75.8



#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.579 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:101 Resp: 184306

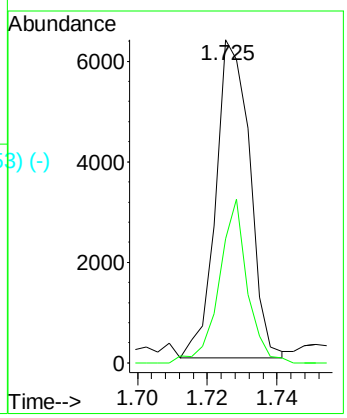
Ion	Ratio	Lower	Upper
101	100		
151	79.1	62.6	94.0

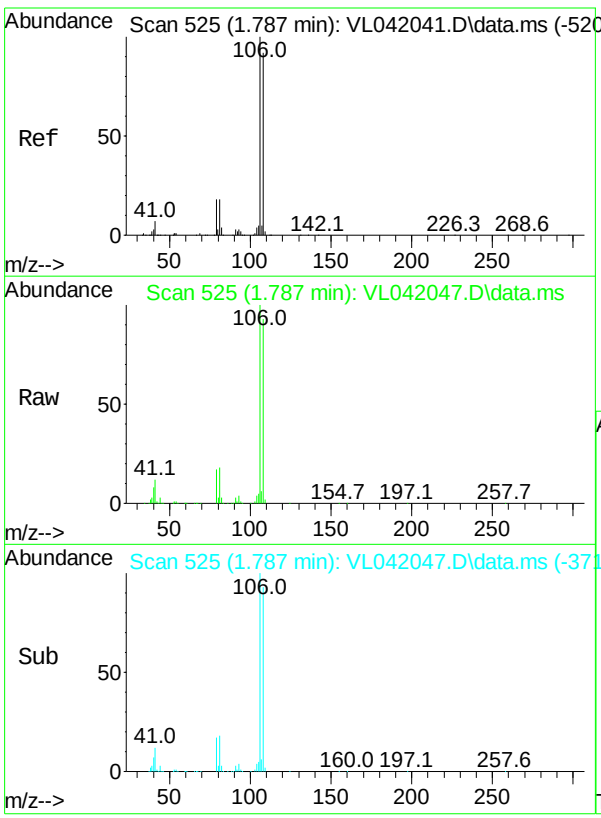


#13
Ethanol
Concen: 2.909 ppbv
RT: 1.725 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 45 Resp: 4281

Ion	Ratio	Lower	Upper
45	100		
46	42.7	17.1	68.3

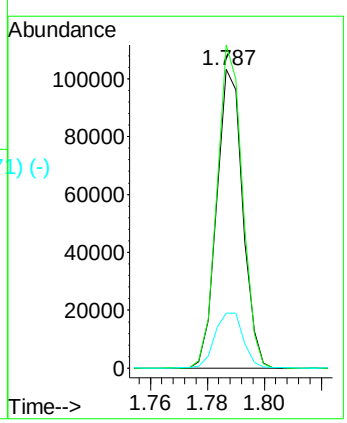




#14
Bromoethene
Concen: 8.164 ppbv
RT: 1.787 min Scan# 525
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

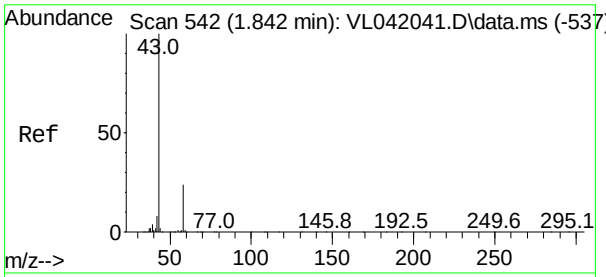
Tgt Ion:108 Resp: 65496

Ion	Ratio	Lower	Upper
108	100		
106	105.7	85.4	128.0
79	20.5	16.5	24.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

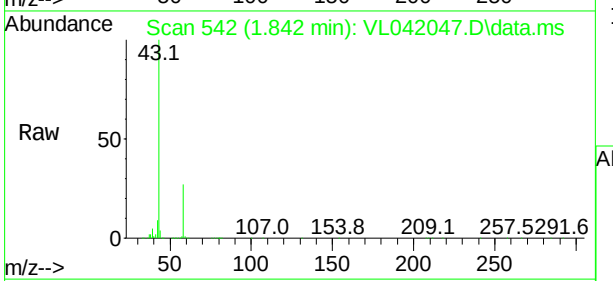
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

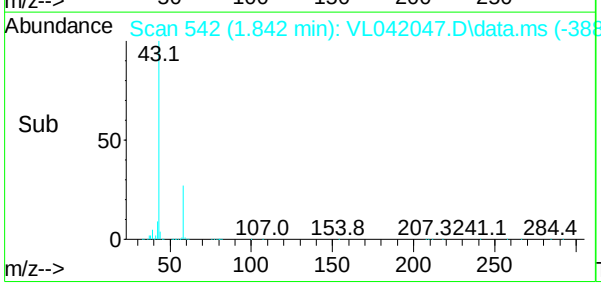


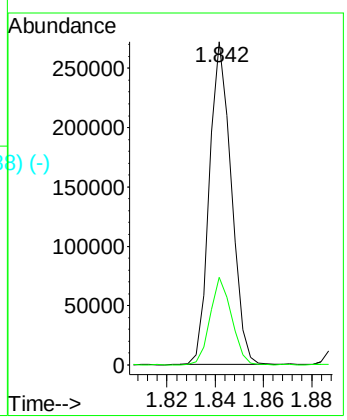
#15
Acetone
Concen: 6.574 ppbv
RT: 1.842 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

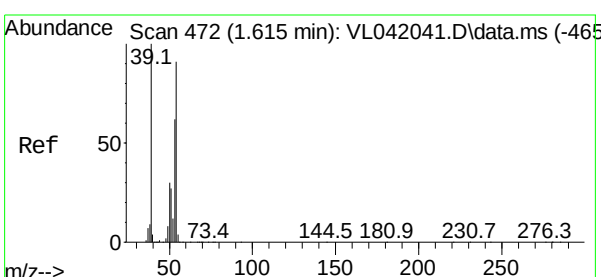
Tgt Ion: 43 Resp: 172538

Ion	Ratio	Lower	Upper
43	100		
58	26.7	20.7	31.1





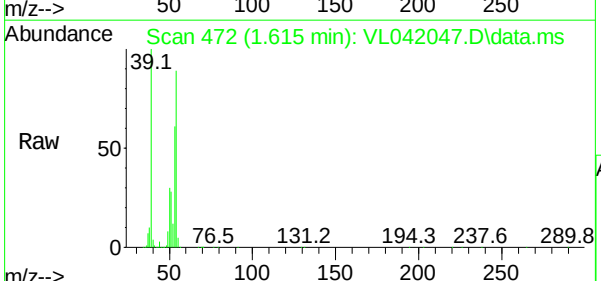


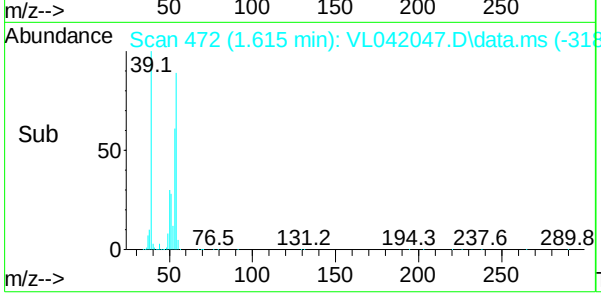


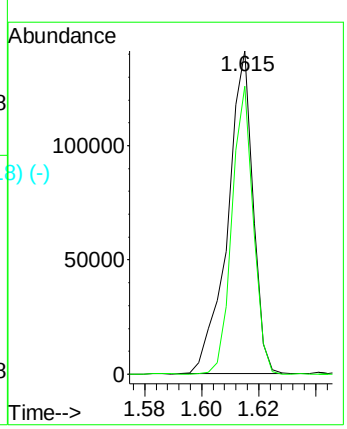
#16
1,3-Butadiene
Concen: 7.027 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

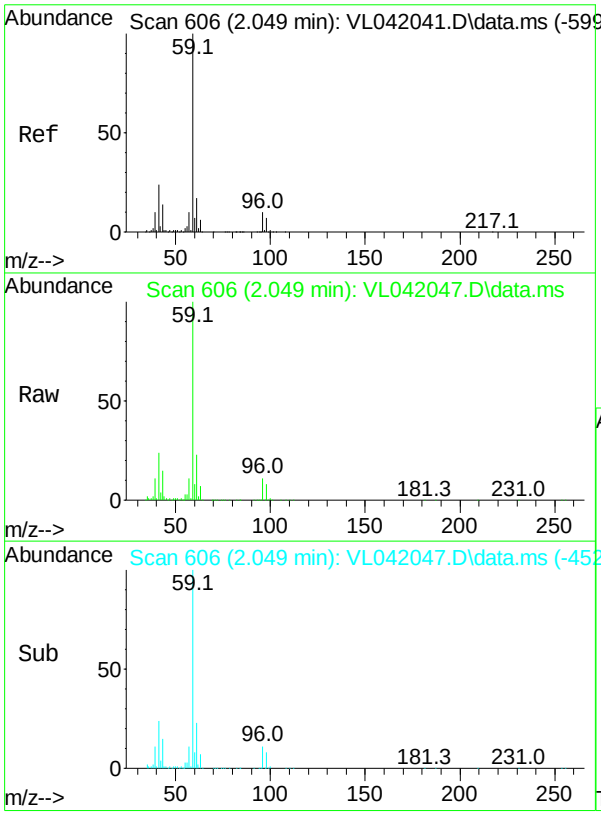
Tgt Ion: 39 Resp: 87490

Ion	Ratio	Lower	Upper
39	100		
54	74.6	59.6	89.4





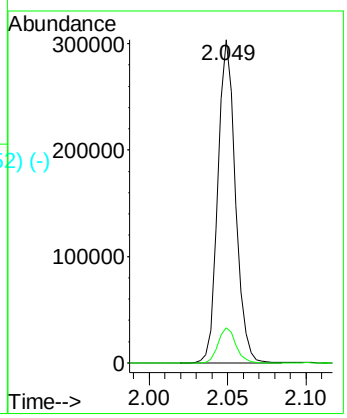


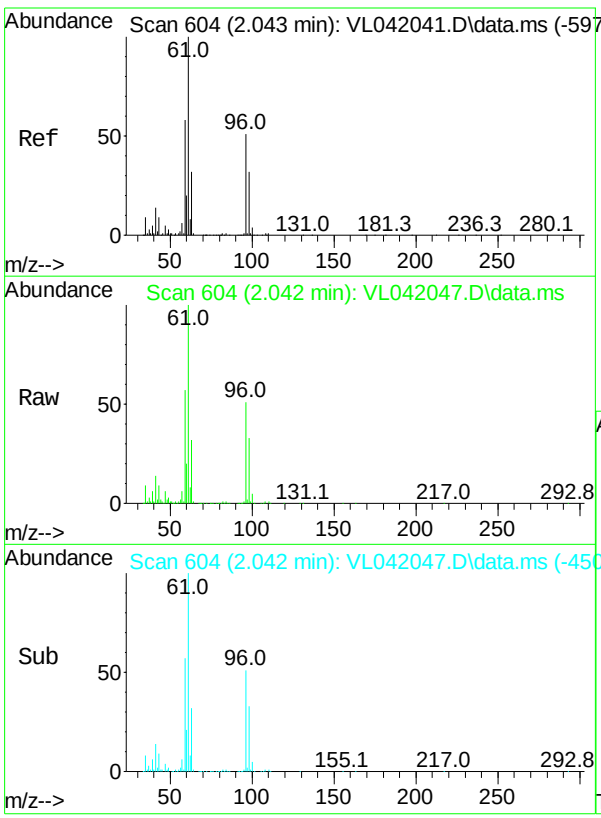


#17
tert-Butyl alcohol
Concen: 7.377 ppbv
RT: 2.049 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 59 Resp: 239569

Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.3	13.9

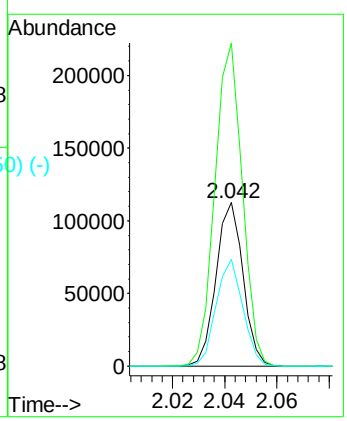




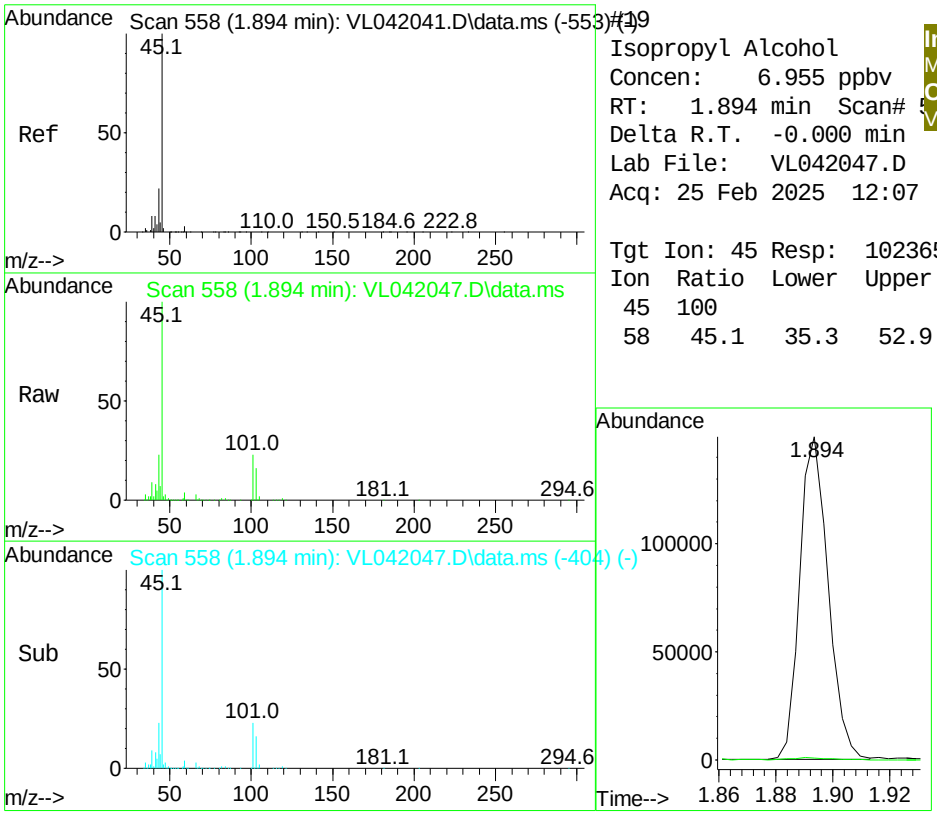
#18
1,1-Dichloroethene
Concen: 7.845 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 96 Resp: 80535

Ion	Ratio	Lower	Upper
96	100		
61	197.3	156.0	234.0
98	65.4	49.4	74.2



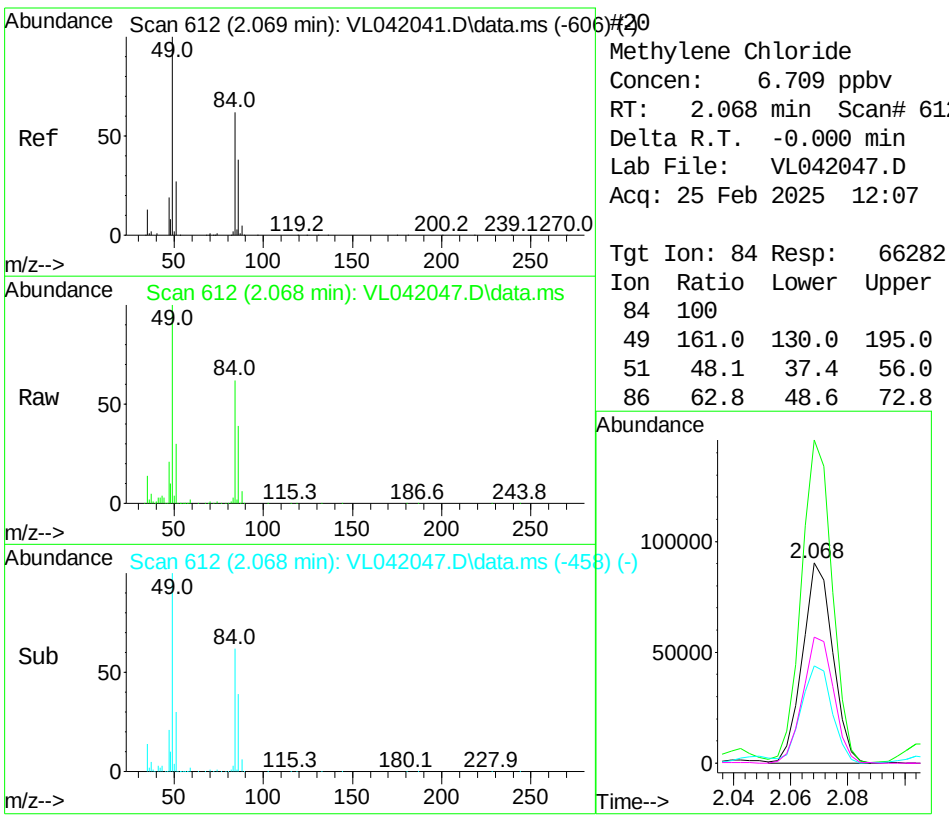
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



#19
Isopropyl Alcohol
Concen: 6.955 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 45 Resp: 102365

Ion	Ratio	Lower	Upper
45	100		
58	45.1	35.3	52.9

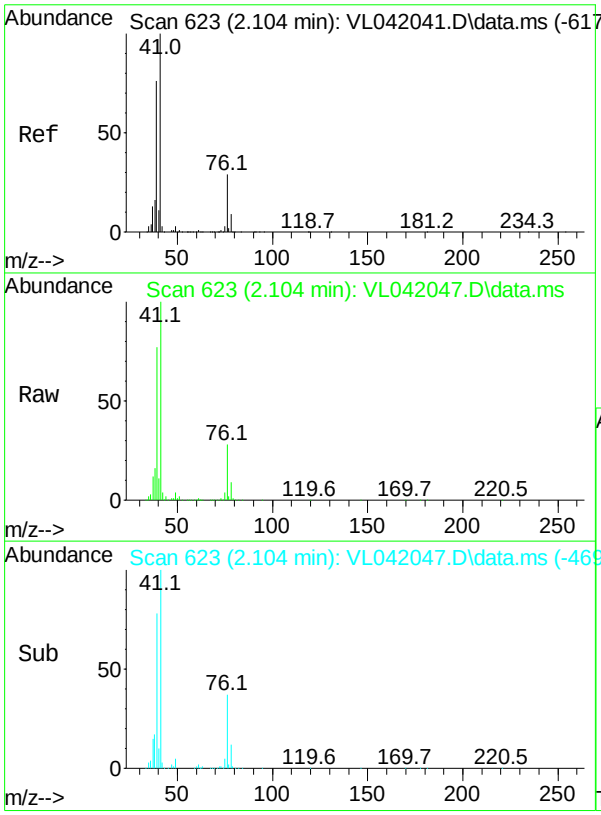


#20
Methylene Chloride
Concen: 6.709 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 84 Resp: 66282

Ion	Ratio	Lower	Upper
84	100		
49	161.0	130.0	195.0
51	48.1	37.4	56.0
86	62.8	48.6	72.8

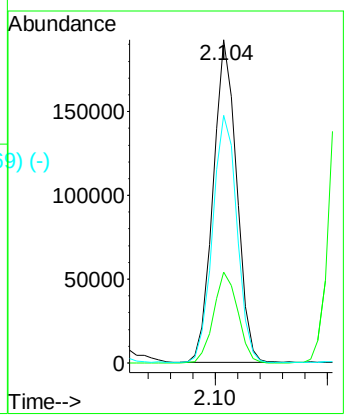
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

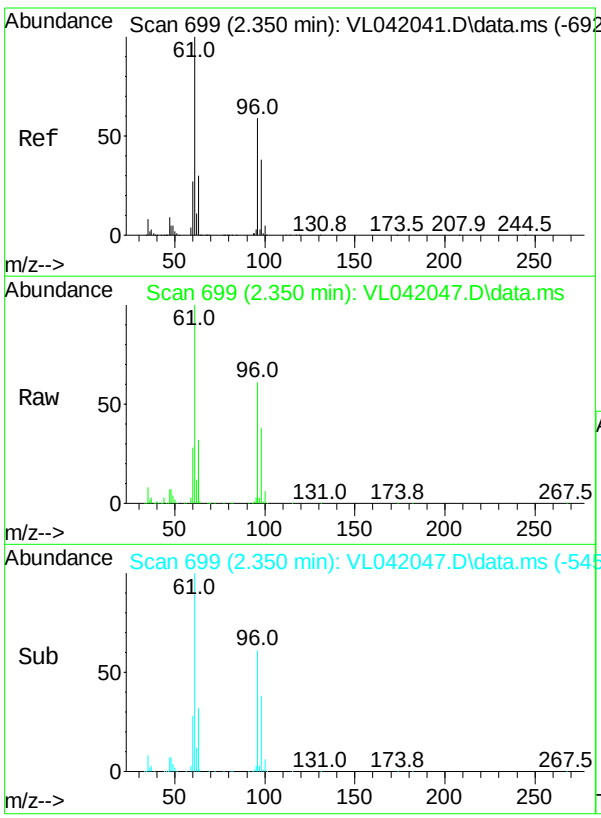


#21
Allyl Chloride
Concen: 7.406 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 41 Resp: 140726

Ion	Ratio	Lower	Upper
41	100		
76	28.8	23.8	35.6
39	79.2	63.8	95.6

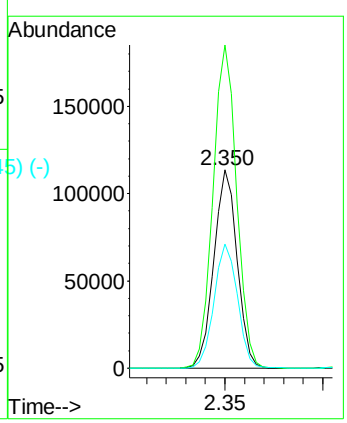




#22
trans-1,2-Dichloroethene
Concen: 8.466 ppbv
RT: 2.350 min Scan# 699
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

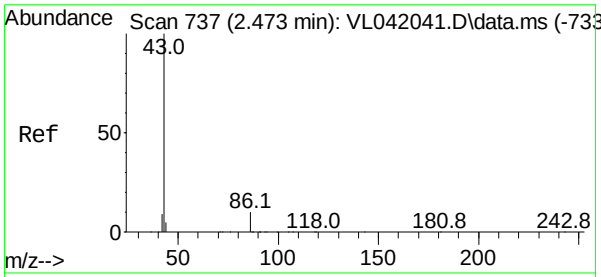
Tgt Ion: 96 Resp: 94321

Ion	Ratio	Lower	Upper
96	100		
61	162.9	136.6	205.0
98	62.6	51.8	77.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

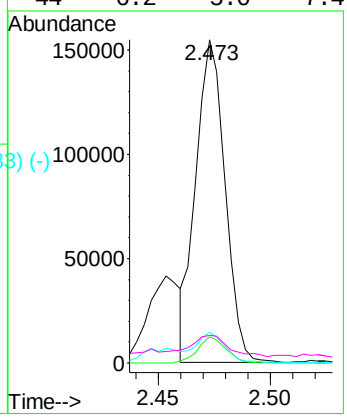
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

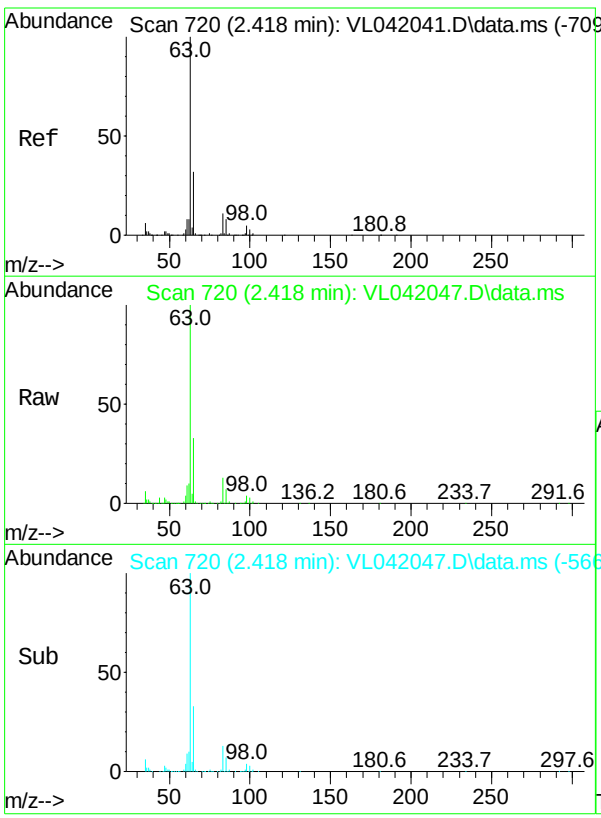


#23
Vinyl Acetate
Concen: 9.831 ppbv
RT: 2.473 min Scan# 737
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 139727

Ion	Ratio	Lower	Upper
43	100		
86	8.1	7.0	10.4
42	9.5	7.6	11.4
44	6.2	5.0	7.4

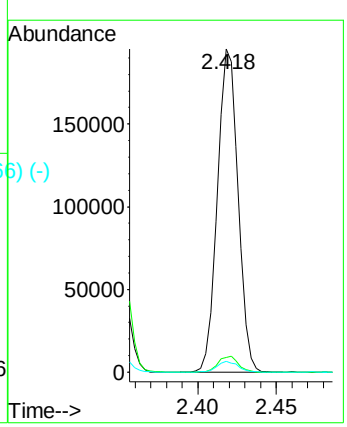


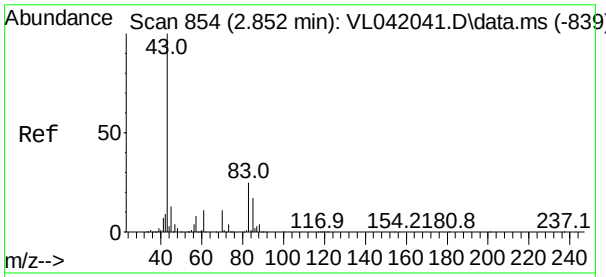


#24
1,1-Dichloroethane
Concen: 7.997 ppbv
RT: 2.418 min Scan# 720
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 63 Resp: 180882

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.4	7.2
100	3.3	1.7	5.0



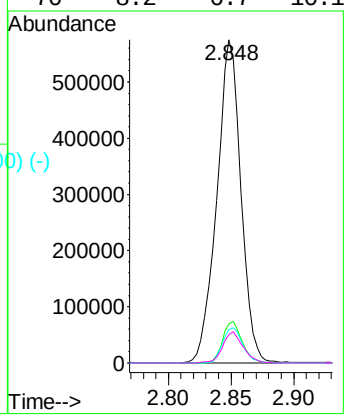


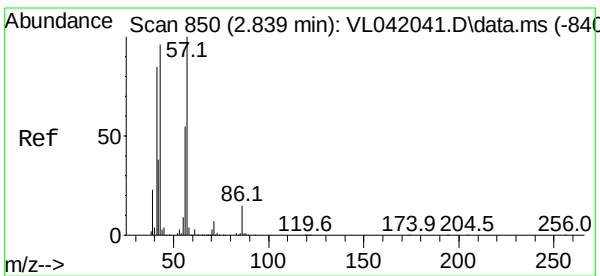
#25
Ethyl Acetate
Concen: 10.652 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 767353

Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.1	12.1
61	9.1	7.2	10.8
70	8.2	6.7	10.1

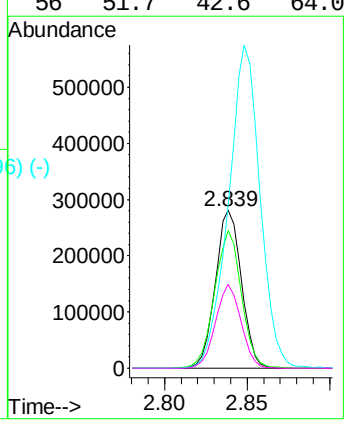


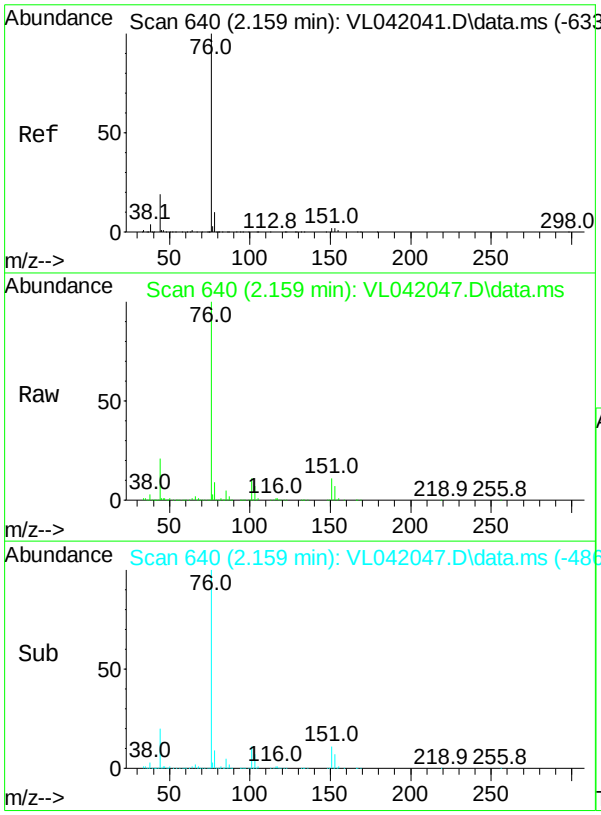


#26
Hexane
Concen: 10.615 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 57 Resp: 306864

Ion	Ratio	Lower	Upper
57	100		
41	89.9	70.6	106.0
43	250.3	199.4	299.0
56	51.7	42.6	64.0

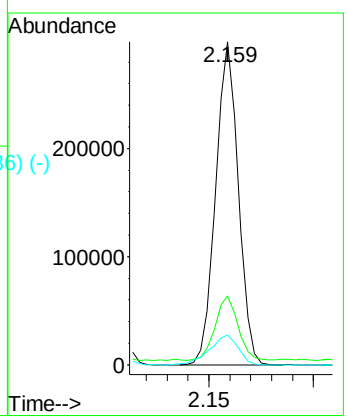


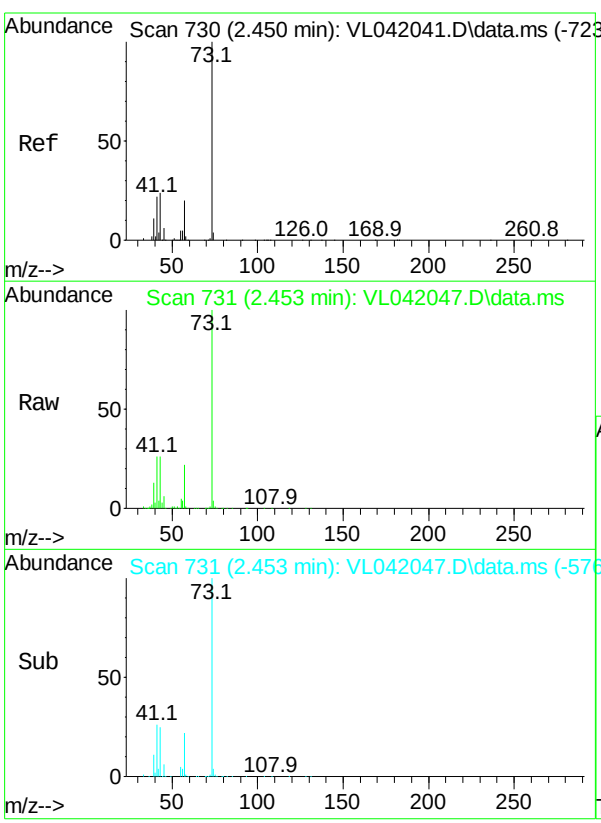


#27
Carbon Disulfide
Concen: 8.261 ppbv
RT: 2.159 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 76 Resp: 224609

Ion	Ratio	Lower	Upper
76	100		
44	21.3	16.2	24.2
78	11.7	9.4	14.0

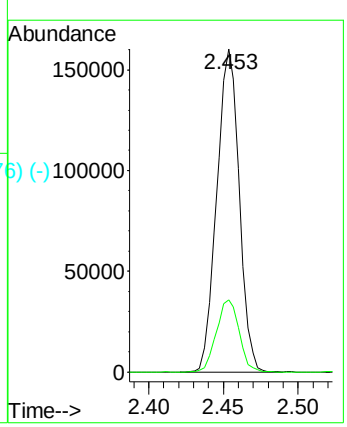


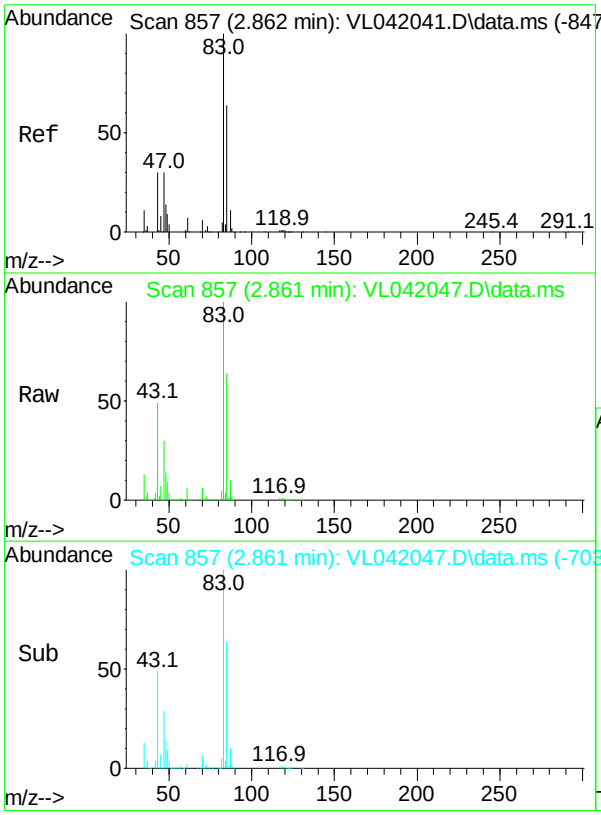


#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.453 min Scan# 731
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 73 Resp: 168058

Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.7	26.5



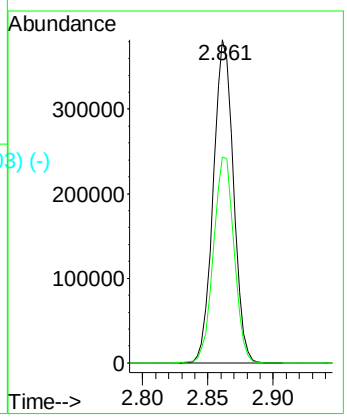


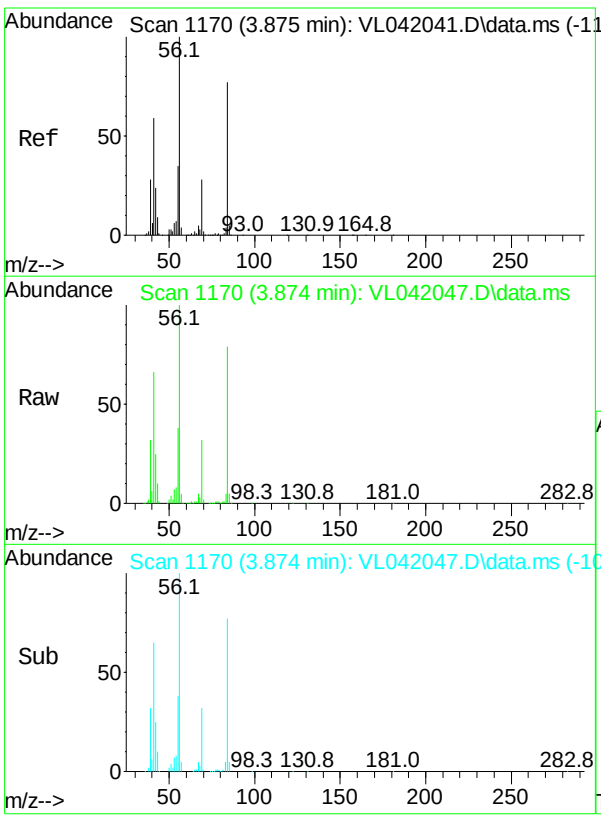
#29
Chloroform
Concen: 9.774 ppbv
RT: 2.861 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 409240

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.2	76.8

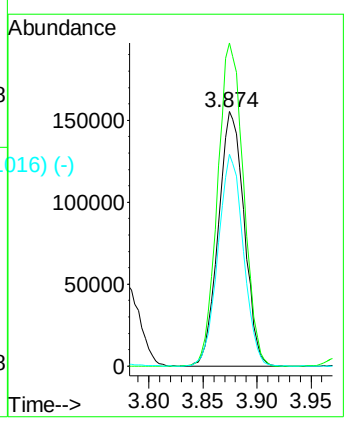


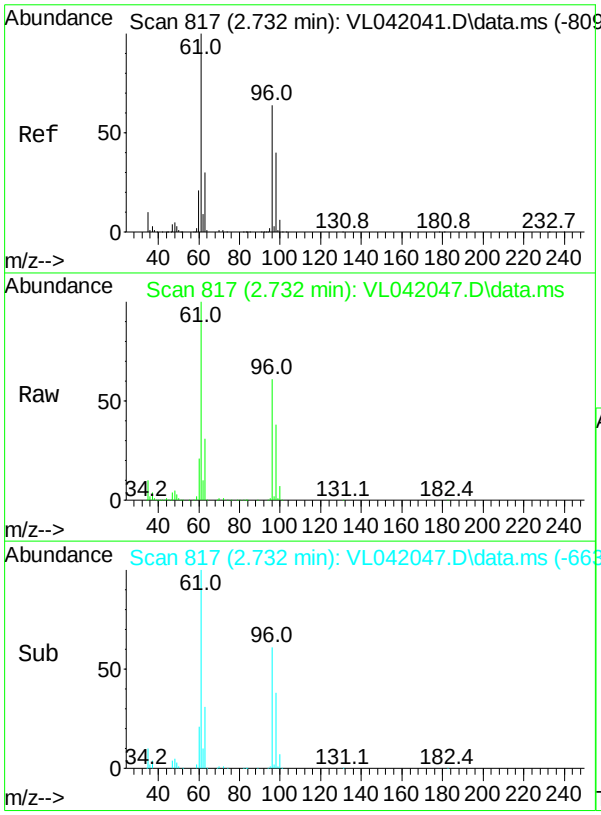


#30
Cyclohexane
Concen: 10.946 ppbv
RT: 3.874 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 84 Resp: 256687

Ion	Ratio	Lower	Upper
84	100		
56	127.5	101.5	152.3
41	81.7	62.6	93.8



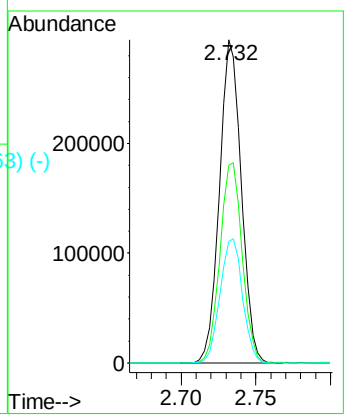


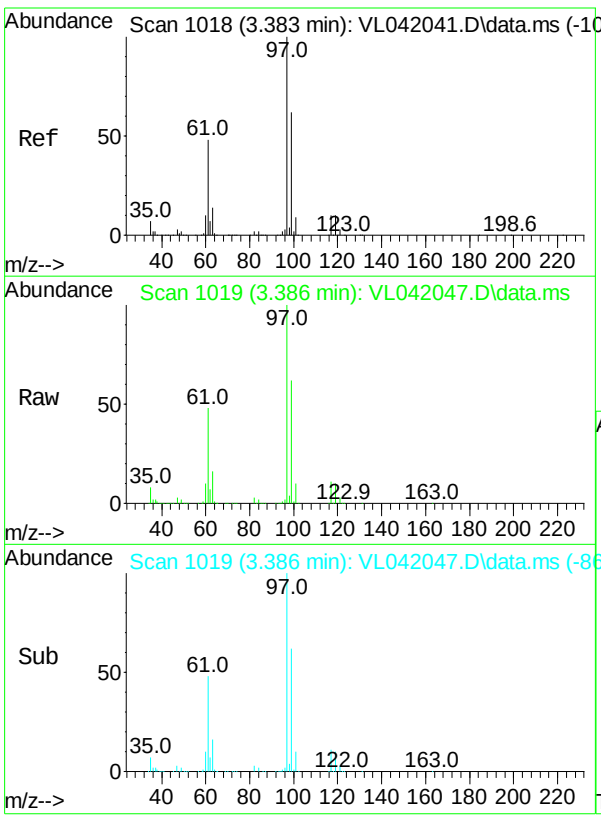
#31
cis-1,2-Dichloroethene
Concen: 10.476 ppbv
RT: 2.732 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 61 Resp: 299324

Ion	Ratio	Lower	Upper
61	100		
96	61.2	51.5	77.3
98	37.6	32.0	48.0

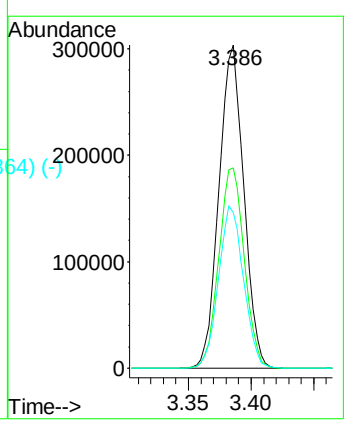


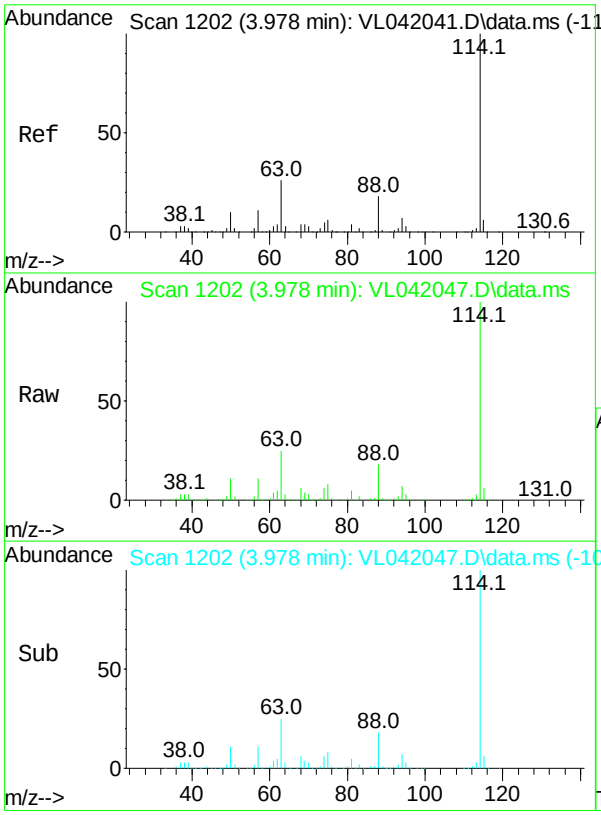


#32
1,1,1-Trichloroethane
Concen: 8.994 ppbv
RT: 3.386 min Scan# 1019
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 97 Resp: 417615

Ion	Ratio	Lower	Upper
97	100		
99	63.5	49.8	74.6
61	50.7	38.9	58.3



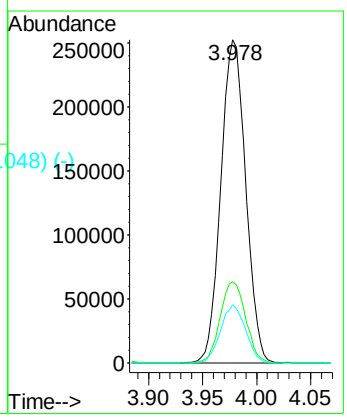


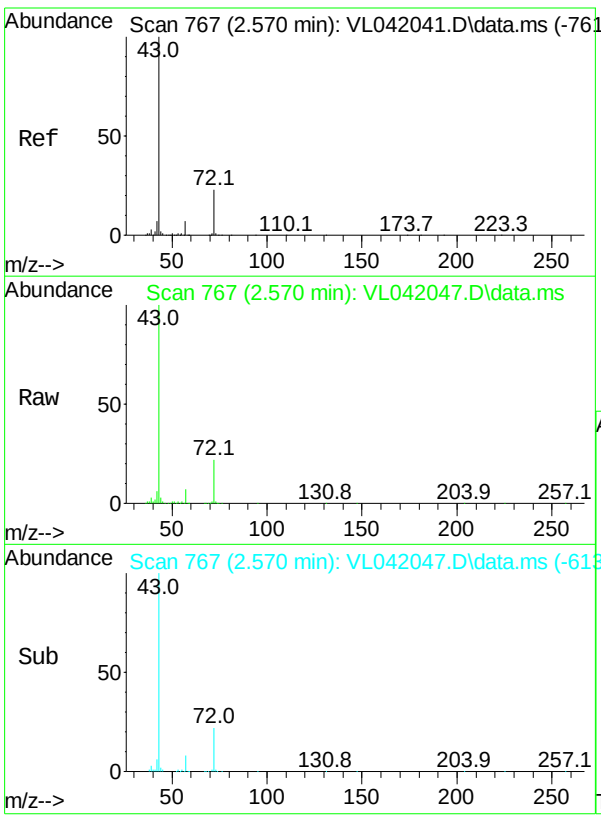
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:114 Resp: 401919

Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.1	30.1
88	18.1	14.3	21.5

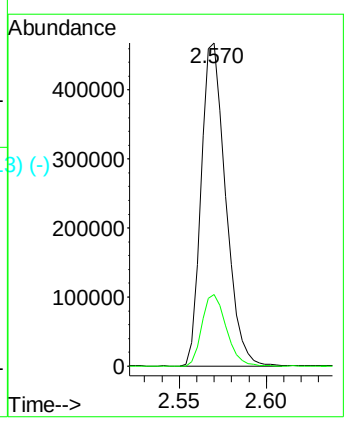


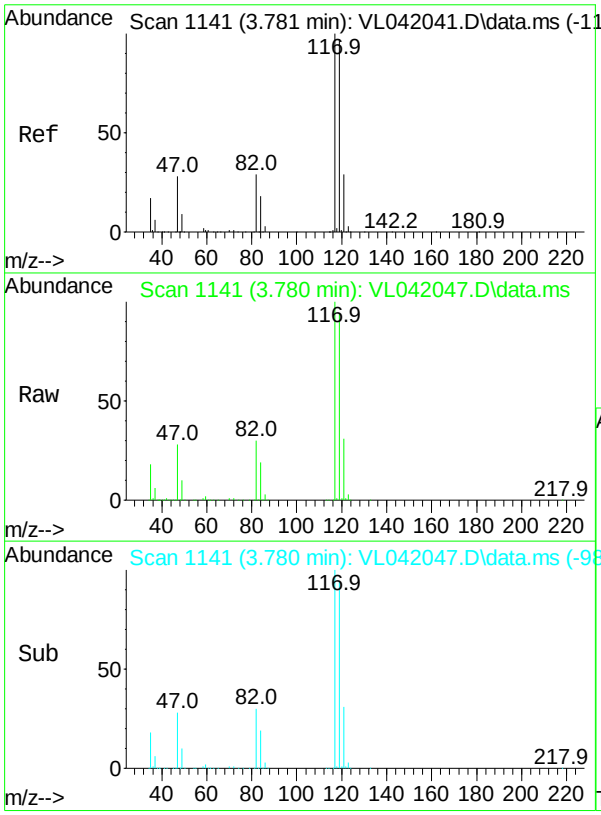


#34
2-Butanone
Concen: 13.234 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 457602

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.5	27.7



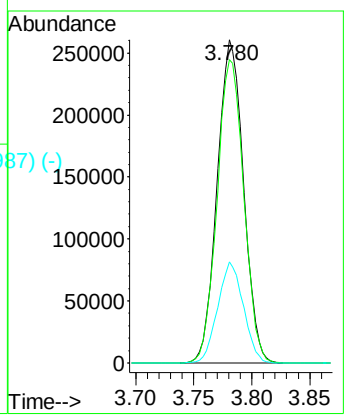


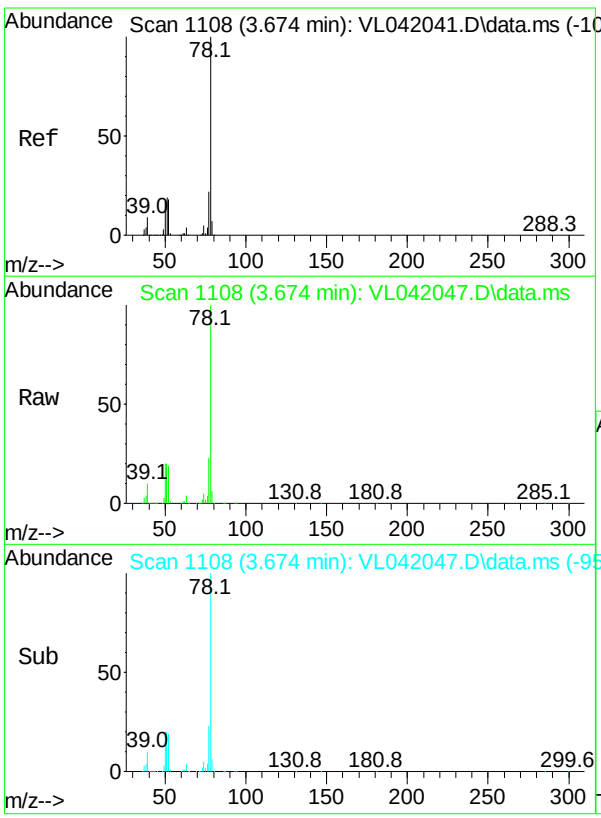
#85
Carbon Tetrachloride
Concen: 10.524 ppbv
RT: 3.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 410730

Ion	Ratio	Lower	Upper
117	100		
119	93.9	77.8	116.8
121	31.3	23.4	35.0

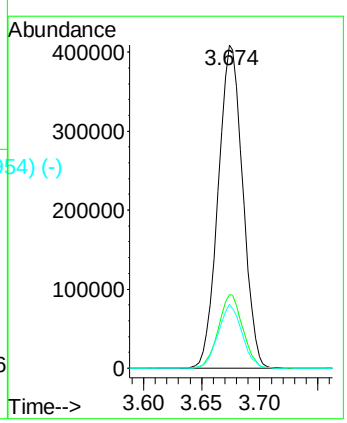


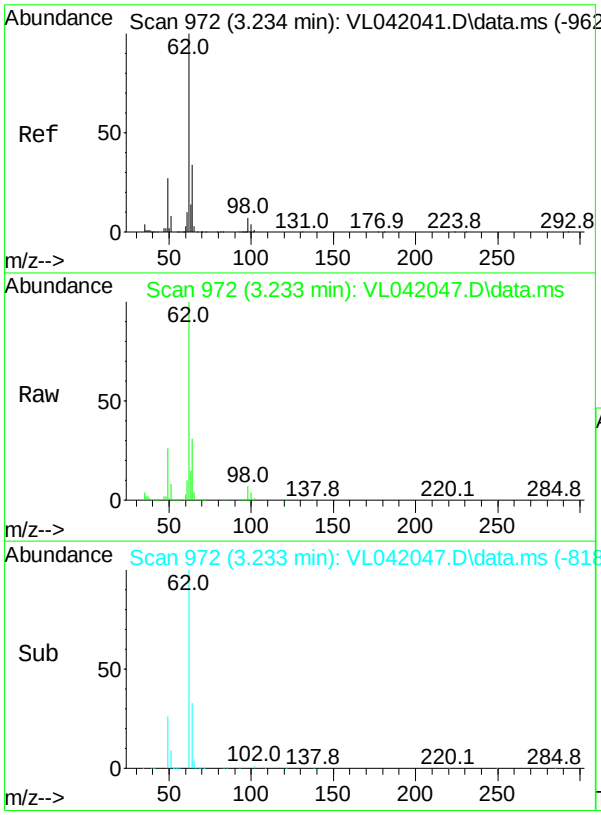


#36
Benzene
Concen: 12.367 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 78 Resp: 602107

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.7	26.5
50	19.7	13.9	20.9



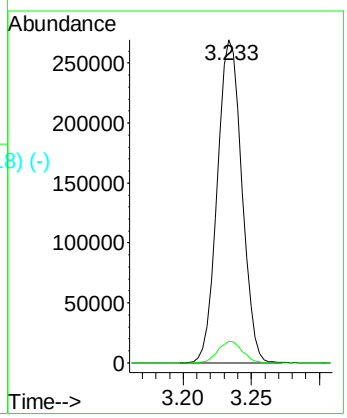


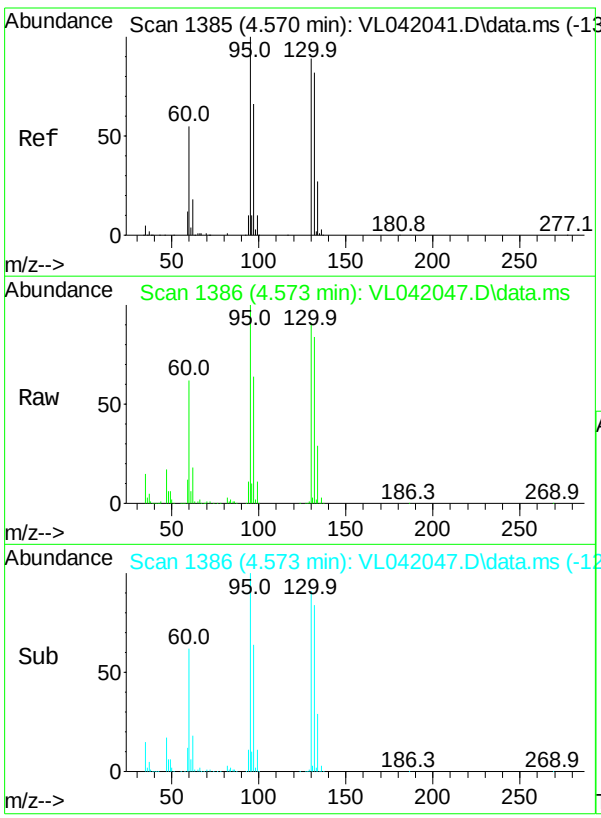
#37
1,2-Dichloroethane
Concen: 12.097 ppbv
RT: 3.233 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 335275

Ion	Ratio	Lower	Upper
62	100		
98	6.7	5.7	8.5

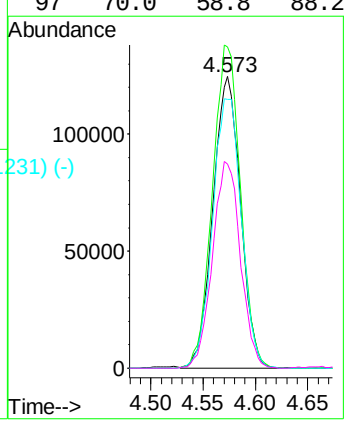


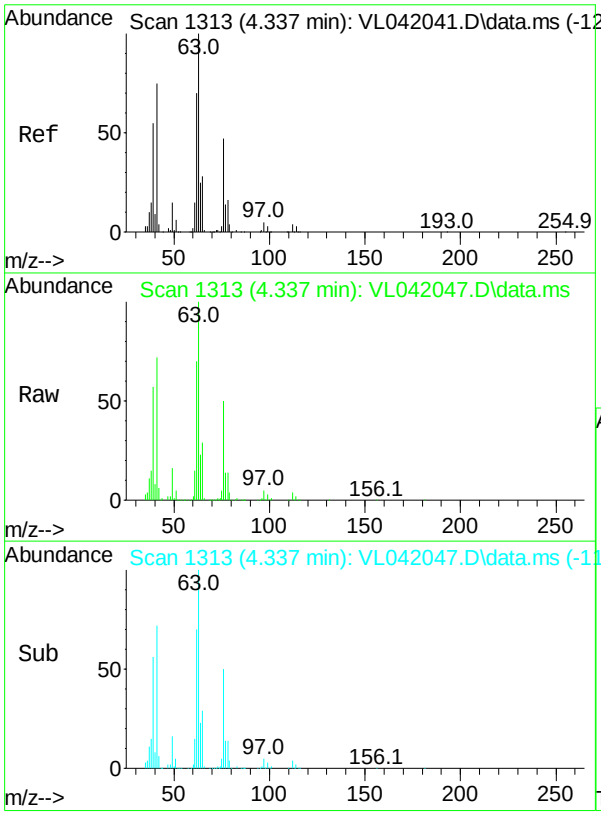


#38
Trichloroethene
Concen: 11.542 ppbv
RT: 4.573 min Scan# 1386
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:130 Resp: 228298

Ion	Ratio	Lower	Upper
130	100		
95	110.1	89.5	134.3
132	92.2	73.8	110.6
97	70.0	58.8	88.2



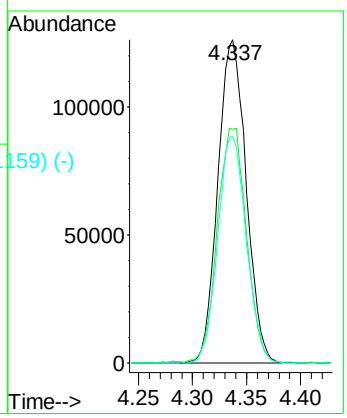


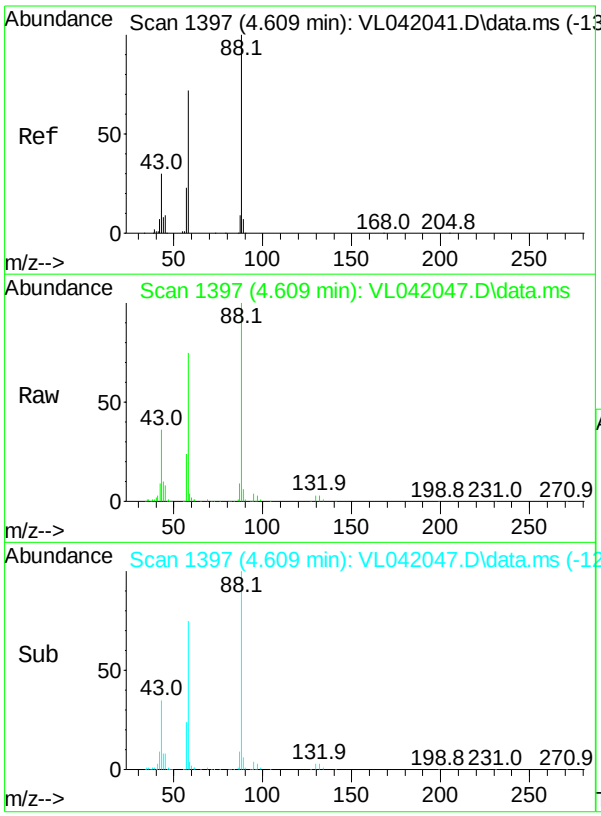
#89
1,2-Dichloropropane
Concen: 12.797 ppbv
RT: 4.337 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 63 Resp: 228418

Ion	Ratio	Lower	Upper
63	100		
41	72.2	60.1	90.1
62	70.3	55.8	83.8

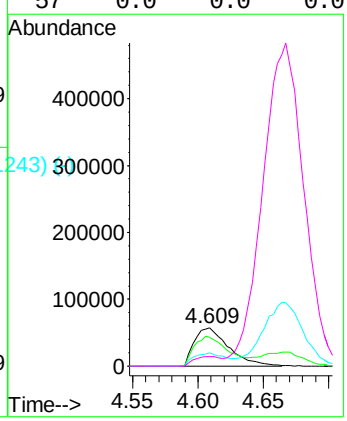


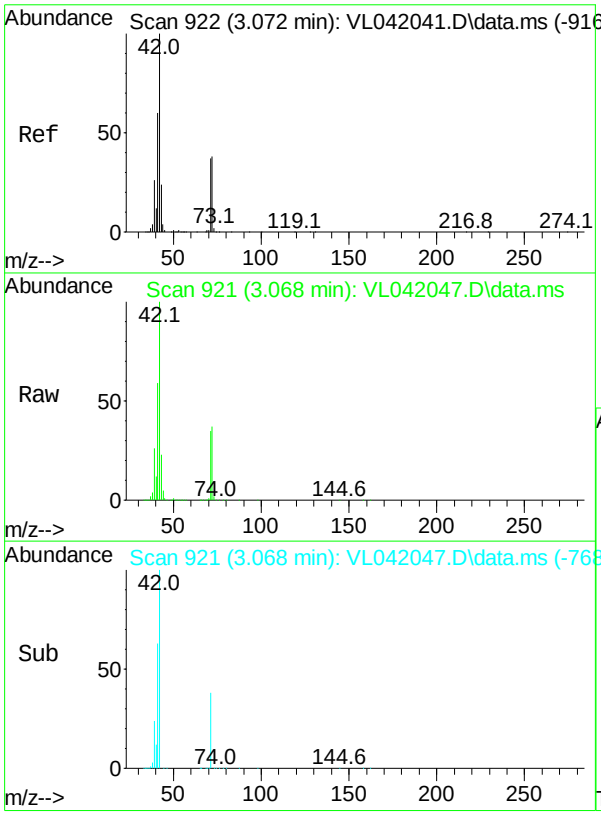


#40
1,4-Dioxane
Concen: 11.253 ppbv
RT: 4.609 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 88 Resp: 104519

Ion	Ratio	Lower	Upper
88	100		
58	81.6	62.6	94.0
43	30.4	0.0	0.0#
57	0.0	0.0	0.0



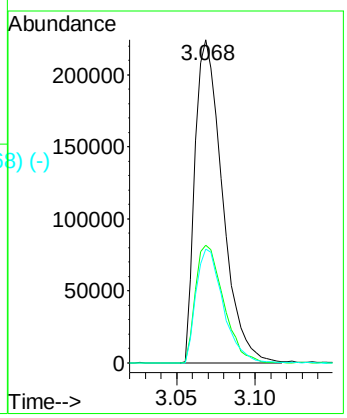


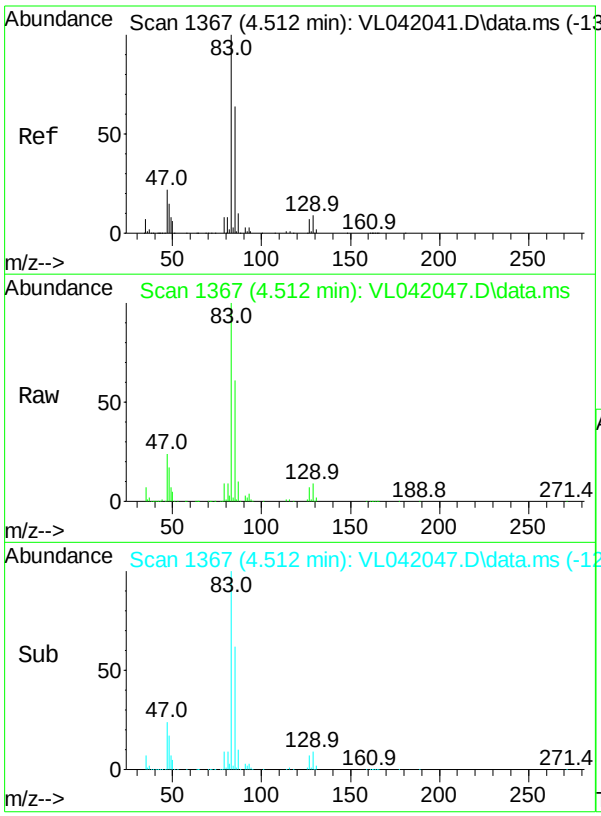
#41
Tetrahydrofuran
Concen: 13.724 ppbv
RT: 3.068 min Scan# 9
Delta R.T. -0.004 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 42 Resp: 271202

Ion	Ratio	Lower	Upper
42	100		
72	37.5	30.2	45.2
71	35.1	28.2	42.4

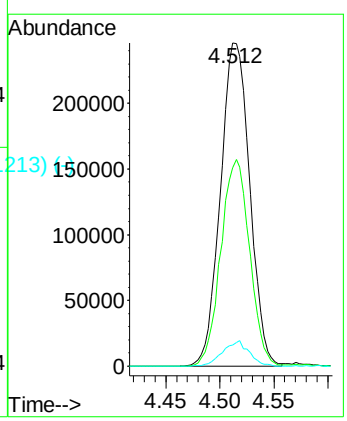


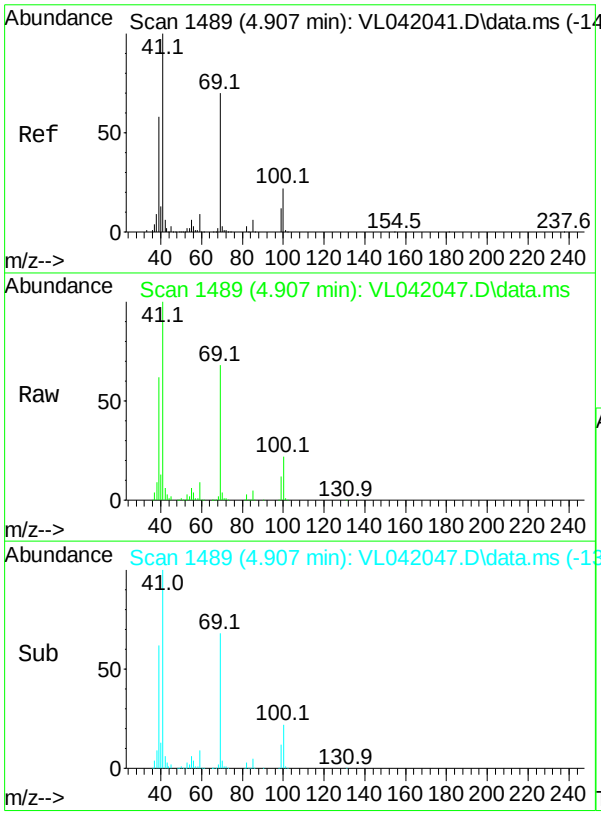


#42
Bromodichloromethane
Concen: 12.285 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 83 Resp: 461272

Ion	Ratio	Lower	Upper
83	100		
85	61.4	51.4	77.2
127	6.6	5.8	8.6

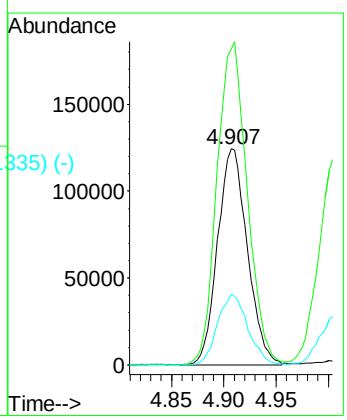


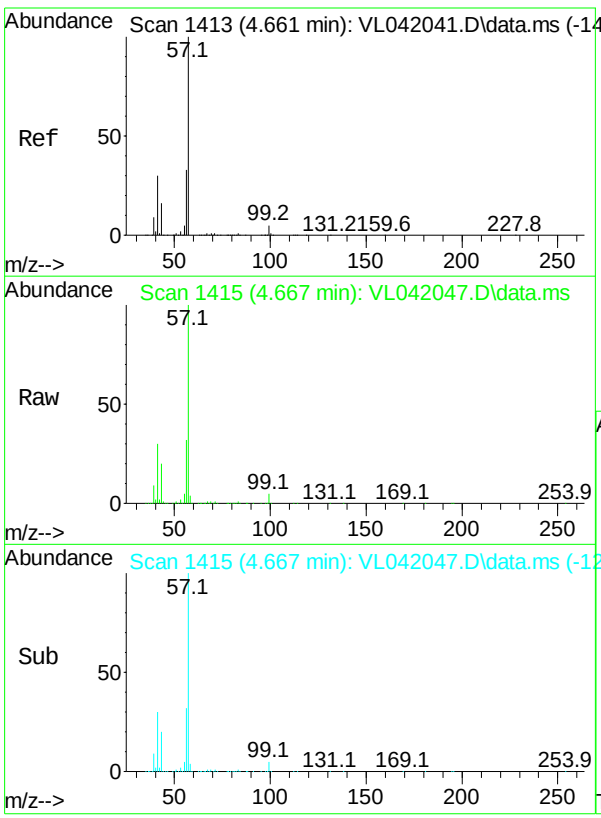


#43
Methyl Methacrylate
Concen: 11.105 ppbv
RT: 4.907 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 69 Resp: 246468

Ion	Ratio	Lower	Upper
69	100		
41	151.9	118.2	177.4
100	33.2	27.0	40.4

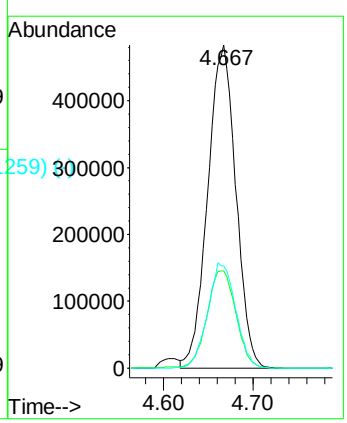




#44
2,2,4-Trimethylpentane
Concen: 12.763 ppbv
RT: 4.667 min Scan# 1415
Delta R.T. 0.006 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

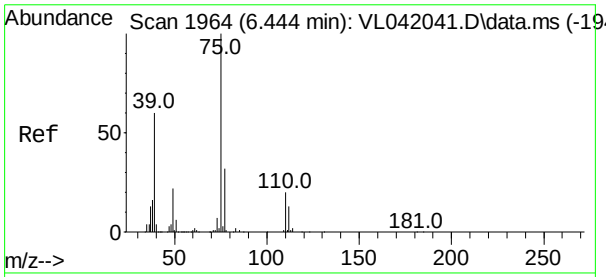
Tgt Ion: 57 Resp: 1054880

Ion	Ratio	Lower	Upper
57	100		
41	31.2	24.4	36.6
56	32.4	26.5	39.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

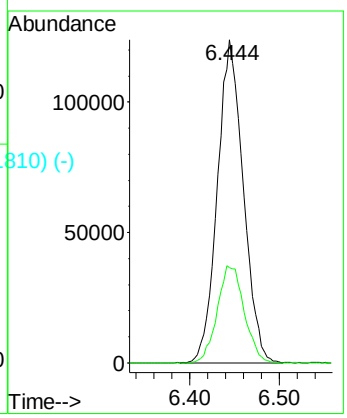
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

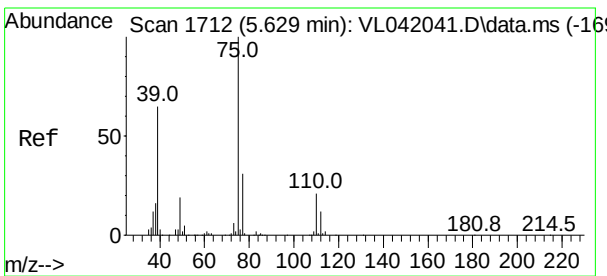


#45
t-1,3-Dichloropropene
Concen: 11.914 ppbv
RT: 6.444 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 75 Resp: 249612

Ion	Ratio	Lower	Upper
75	100		
77	29.6	25.9	38.9

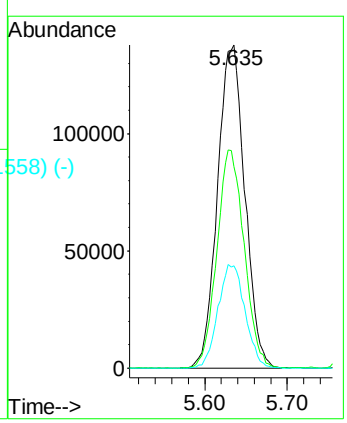


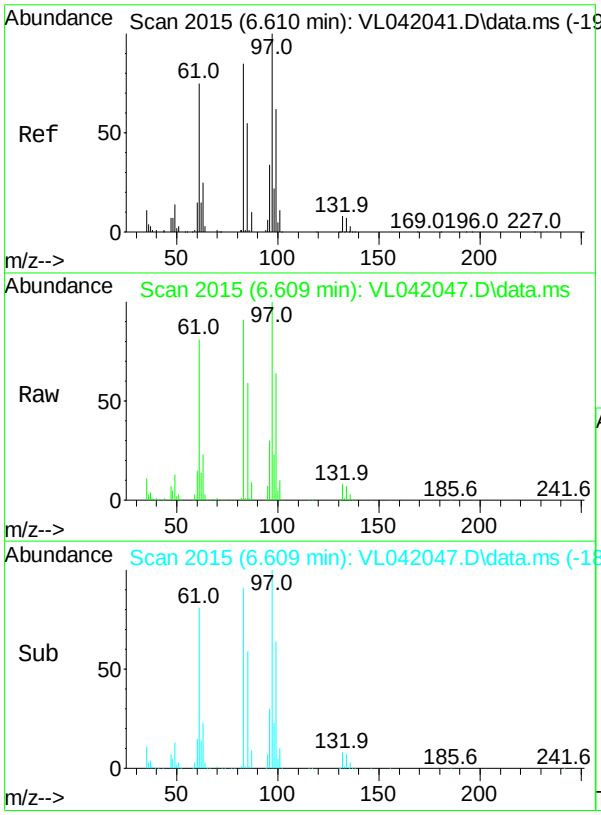


#46
cis-1,3-Dichloropropene
Concen: 11.935 ppbv
RT: 5.635 min Scan# 1714
Delta R.T. 0.006 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 75 Resp: 317266

Ion	Ratio	Lower	Upper
75	100		
39	62.4	51.9	77.9
77	31.6	24.9	37.3

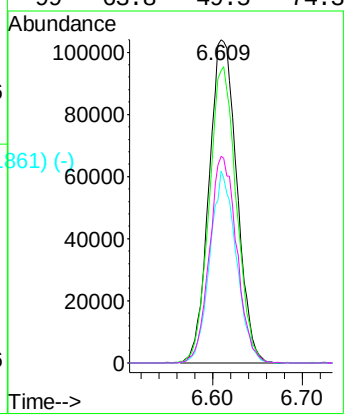


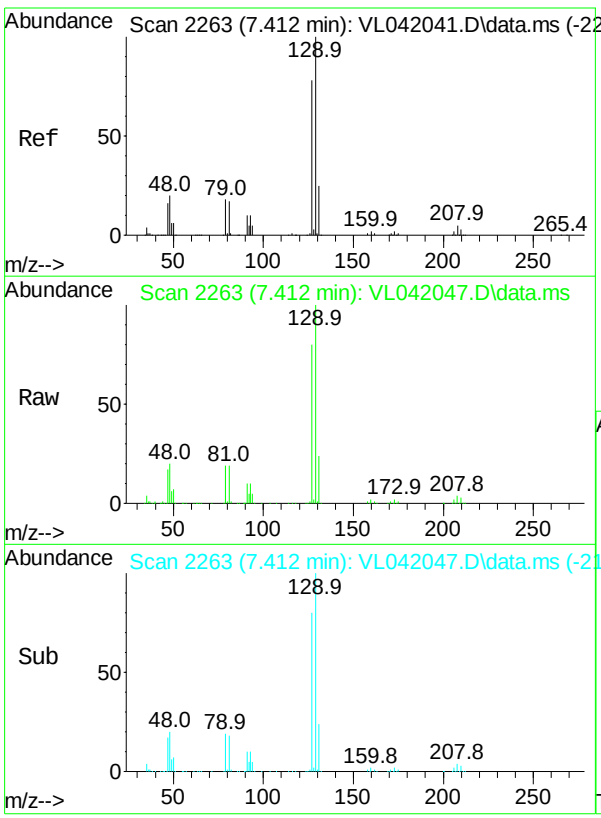


#47
1,1,2-Trichloroethane
Concen: 12.032 ppbv
RT: 6.609 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 97 Resp: 226021

Ion	Ratio	Lower	Upper
97	100		
83	90.5	68.1	102.1
85	59.4	44.0	66.0
99	63.8	49.5	74.3

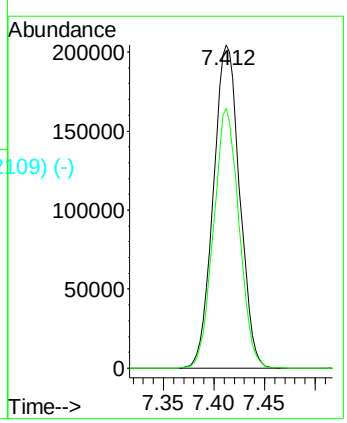




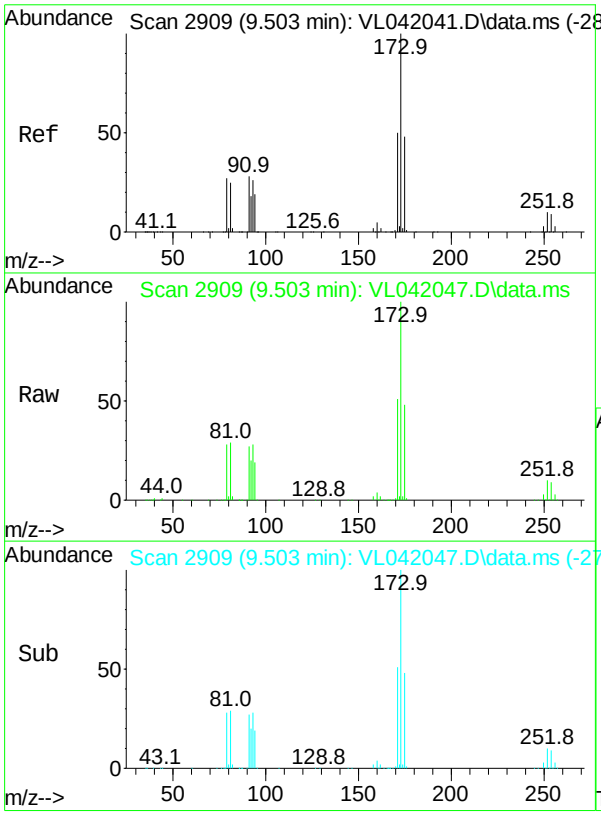
#48
Dibromochloromethane
Concen: 11.750 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:129 Resp: 369666

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.6	115.8



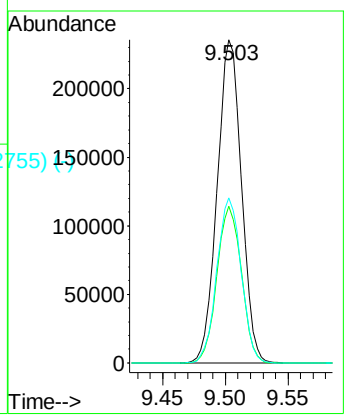
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

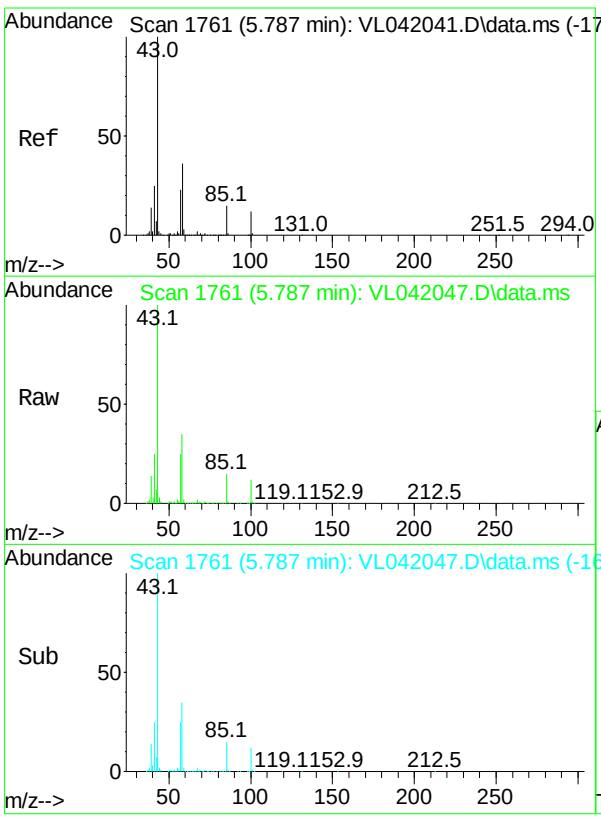


#49
Bromoform
Concen: 12.297 ppbv
RT: 9.503 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:173 Resp: 317322

Ion	Ratio	Lower	Upper
173	100		
175	48.9	38.3	57.5
171	51.2	40.2	60.2

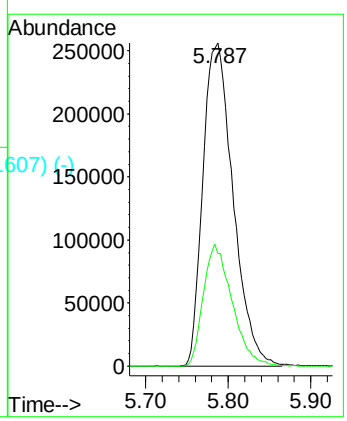




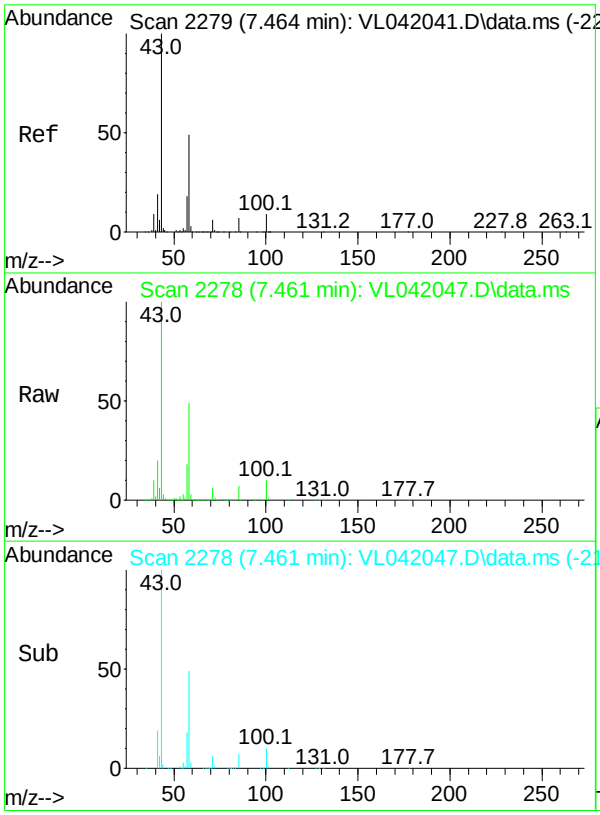
#50
4-Methyl-2-Pentanone
Concen: 12.237 ppbv
RT: 5.787 min Scan# 1761
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 650307

Ion	Ratio	Lower	Upper
43	100		
58	35.9	29.3	43.9



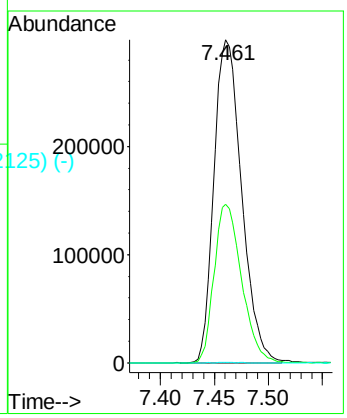
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

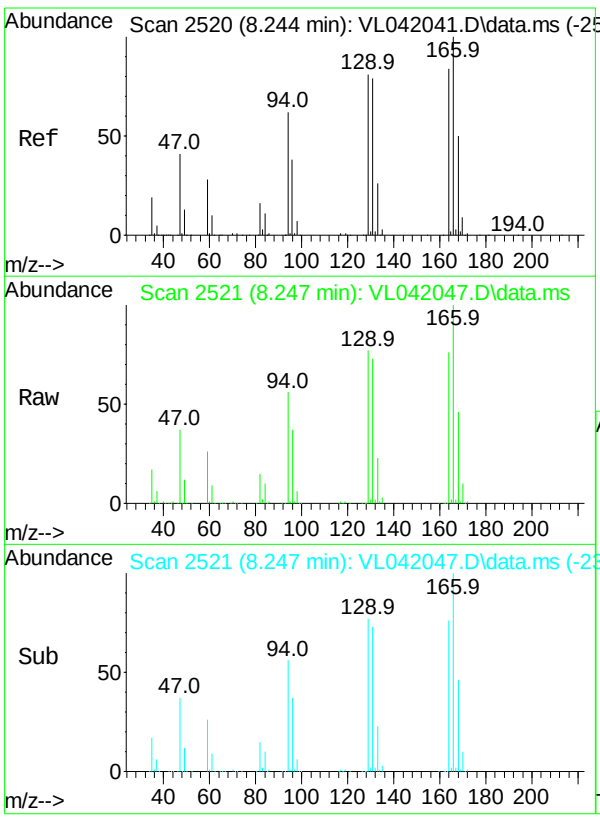


#51
2-Hexanone
Concen: 12.198 ppbv
RT: 7.461 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 43 Resp: 530165

Ion	Ratio	Lower	Upper
43	100		
58	48.8	39.0	58.6
98	0.2	0.1	0.1#

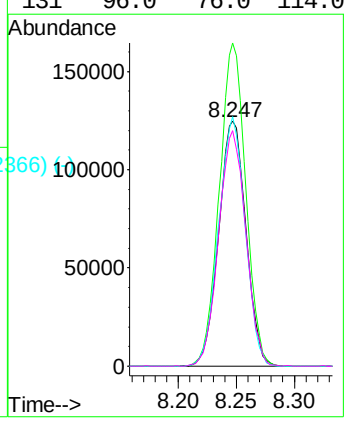




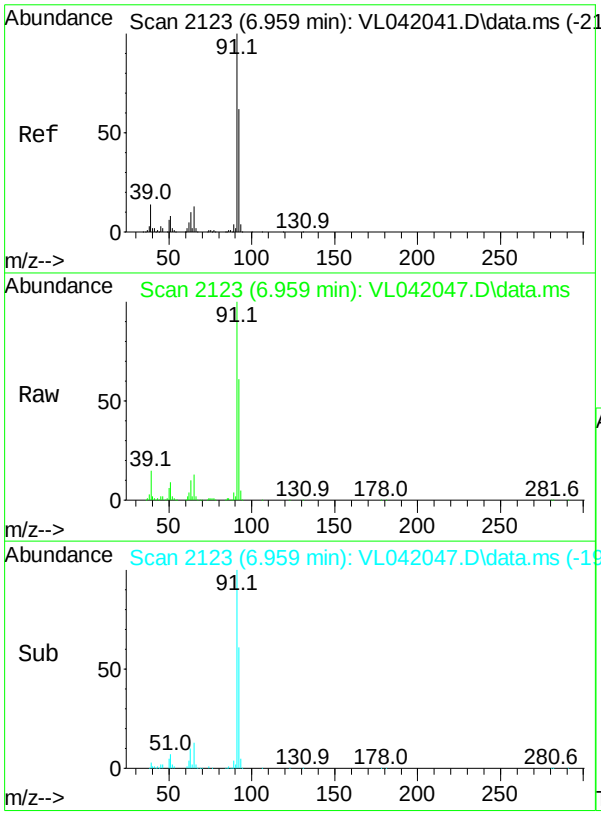
#52
Tetrachloroethene
Concen: 11.968 ppbv
RT: 8.247 min Scan# 2521
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:164 Resp: 203233

Ion	Ratio	Lower	Upper
164	100		
166	132.0	95.7	143.5
129	102.0	77.1	115.7
131	96.0	76.0	114.0



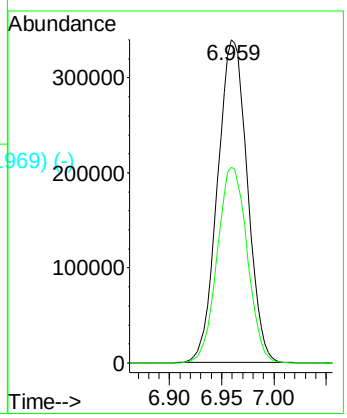
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



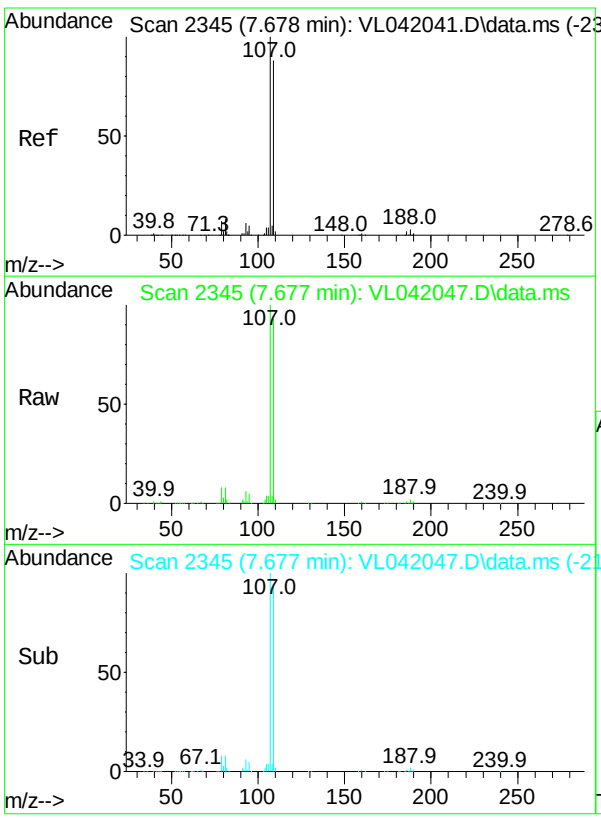
#53
Toluene
Concen: 11.615 ppbv
RT: 6.959 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 673822

Ion	Ratio	Lower	Upper
91	100		
92	60.9	49.0	73.6



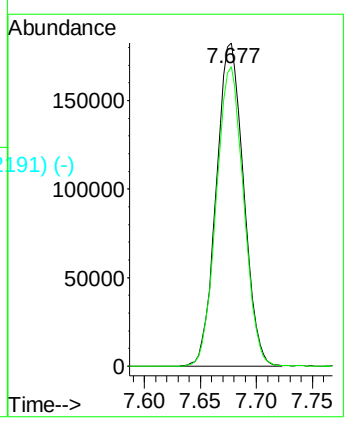
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

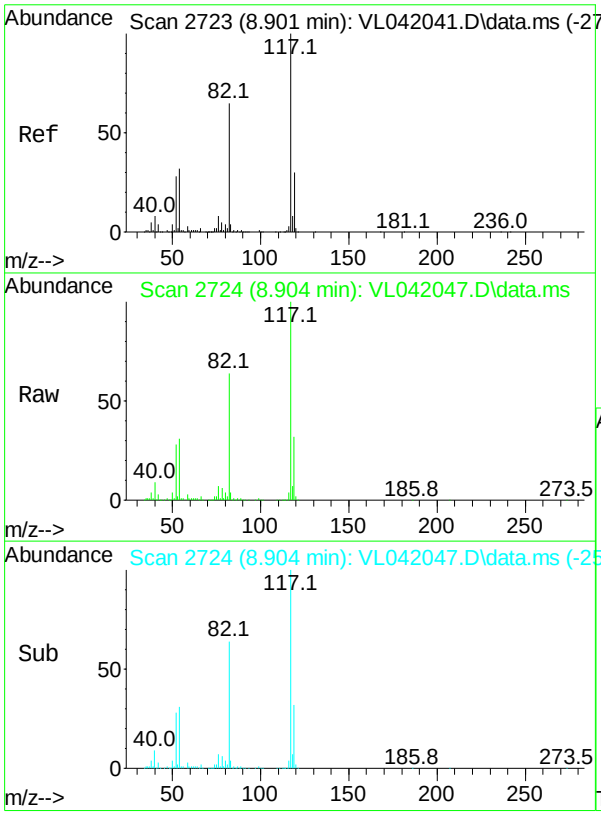


#54
1,2-Dibromoethane
Concen: 11.985 ppbv
RT: 7.677 min Scan# 2345
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:107 Resp: 309982

Ion	Ratio	Lower	Upper
107	100		
109	92.7	70.2	105.4

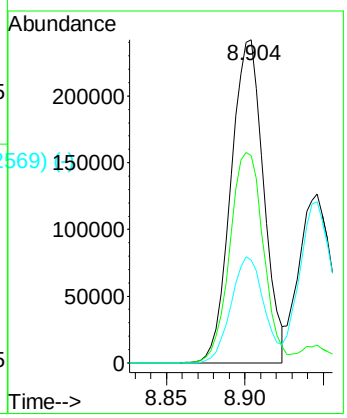




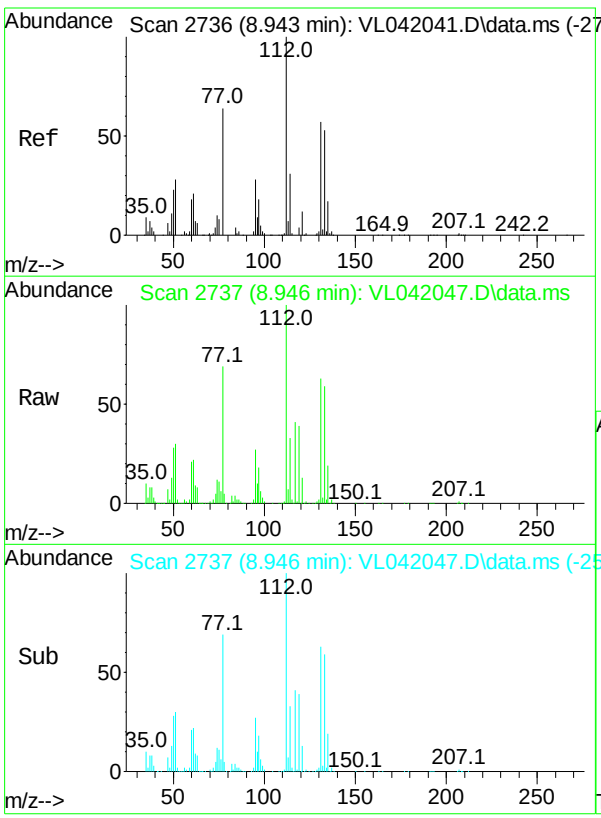
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:117 Resp: 351637

Ion	Ratio	Lower	Upper
117	100		
82	72.2	55.0	82.6
119	33.3	25.9	38.9



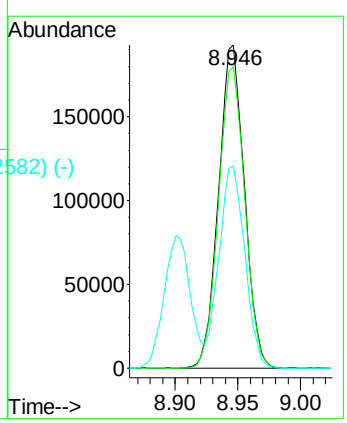
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

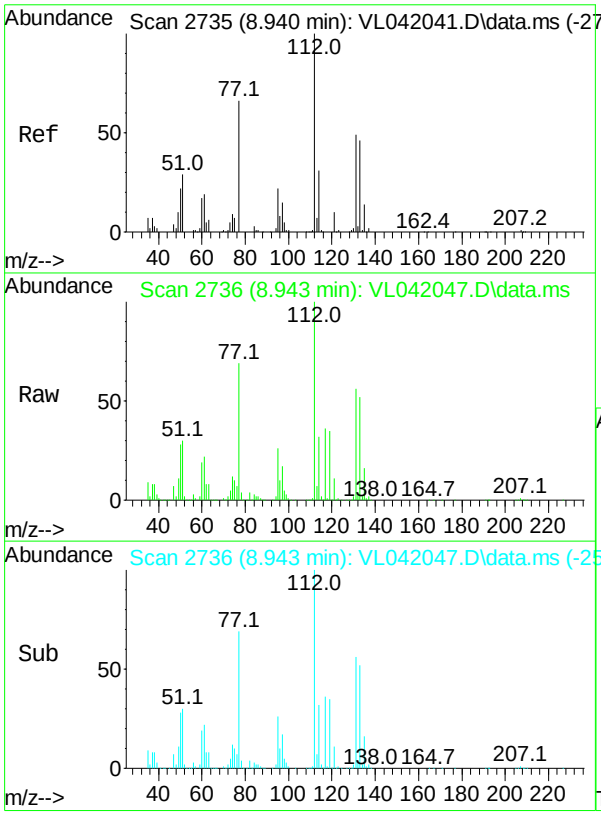


#56
1,1,1,2-Tetrachloroethane
Concen: 10.979 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:131 Resp: 276326

Ion	Ratio	Lower	Upper
131	100		
133	94.6	75.8	113.8
119	63.6	52.1	78.1

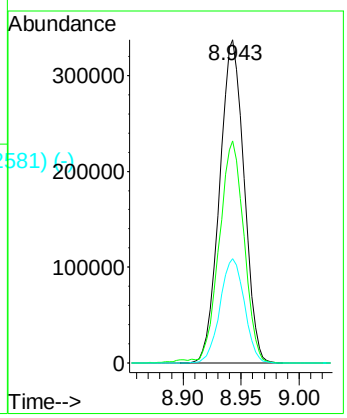




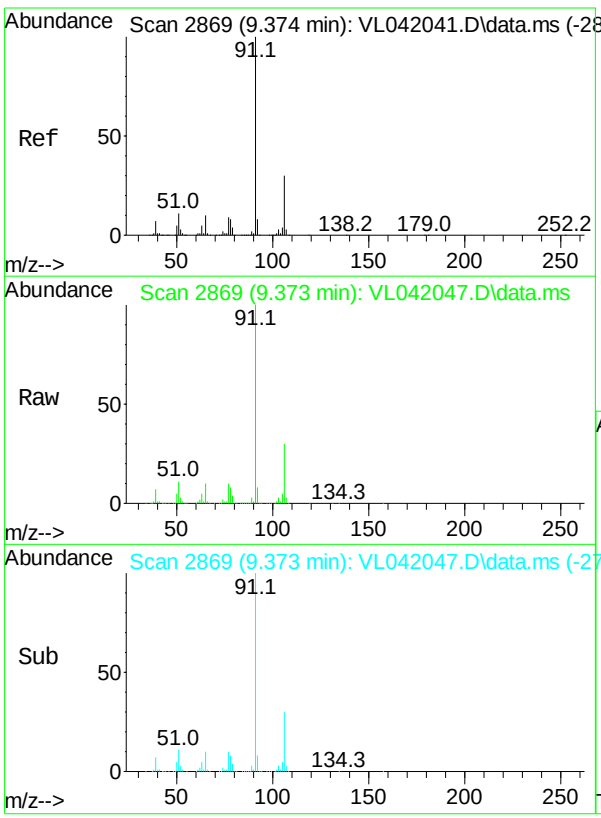
#57
Chlorobenzene
Concen: 11.957 ppbv
RT: 8.943 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:112 Resp: 494606

Ion	Ratio	Lower	Upper
112	100		
77	68.6	53.4	80.2
114	32.4	28.3	34.5



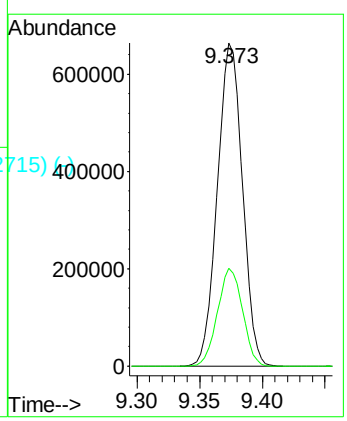
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

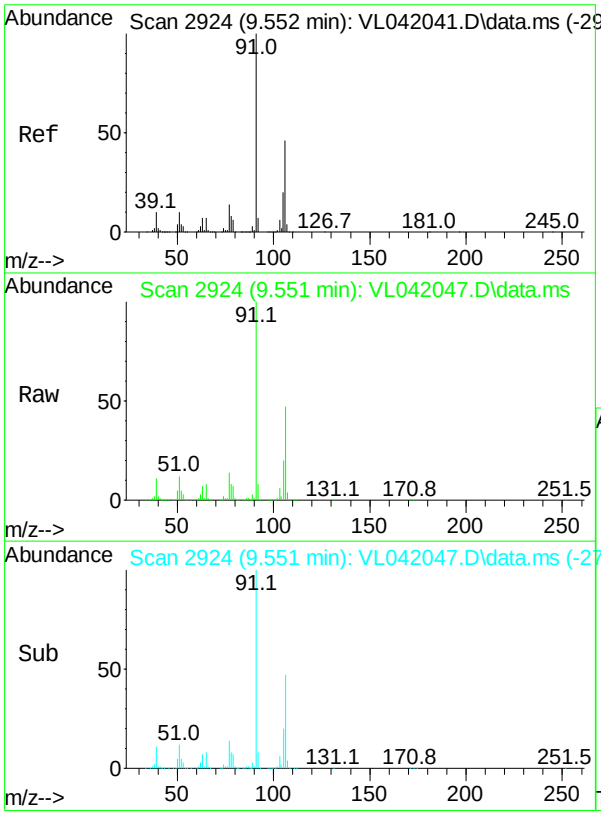


#58
Ethyl Benzene
Concen: 11.984 ppbv
RT: 9.373 min Scan# 2869
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 922265

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.2	36.2

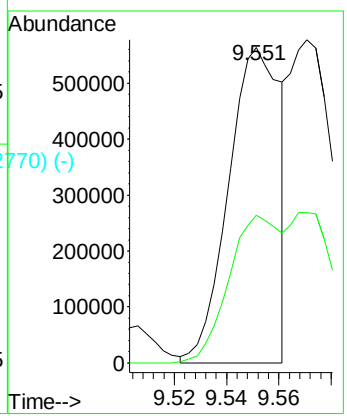




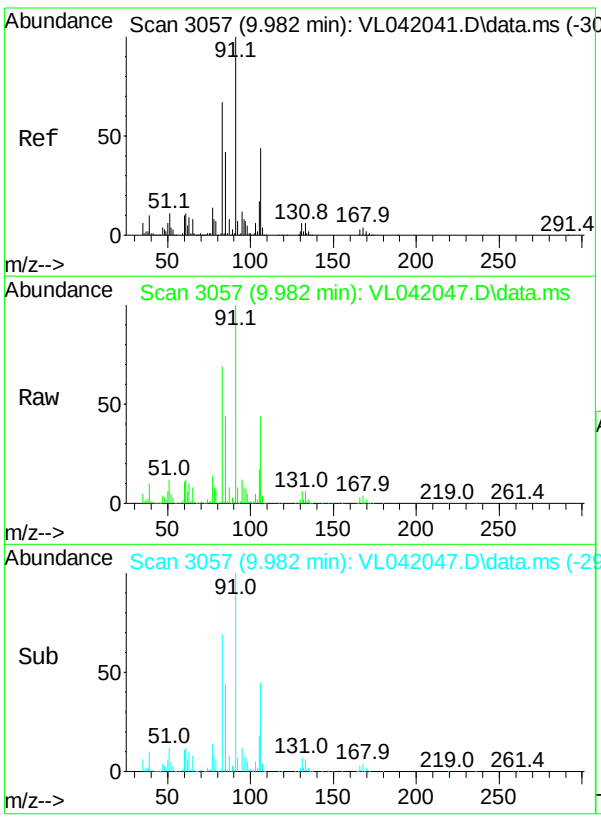
#59
m/p-Xylene
Concen: 12.703 ppbv
RT: 9.551 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 770010

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



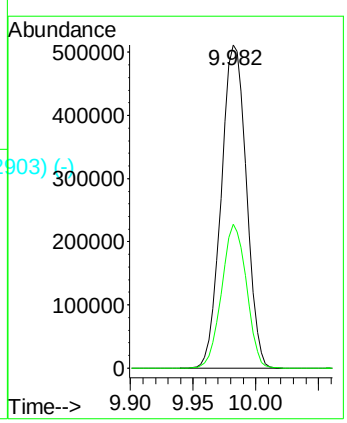
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



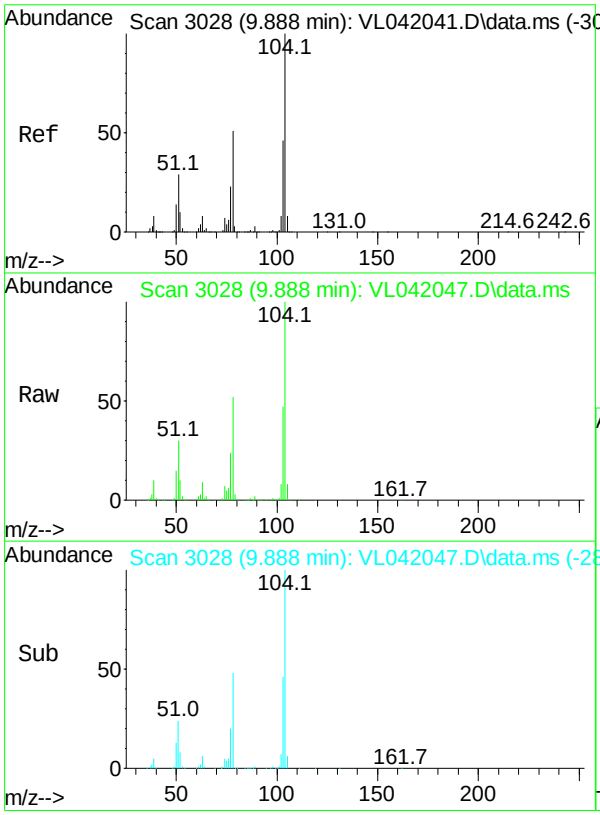
#60
o-Xylene
Concen: 11.626 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 712735

Ion	Ratio	Lower	Upper
91	100		
106	43.8	22.3	66.8



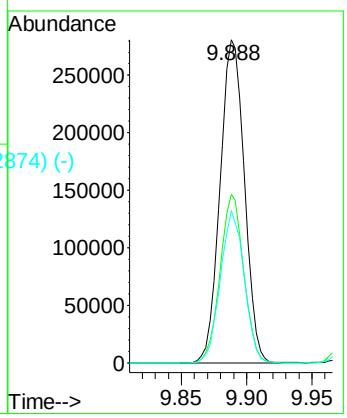
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

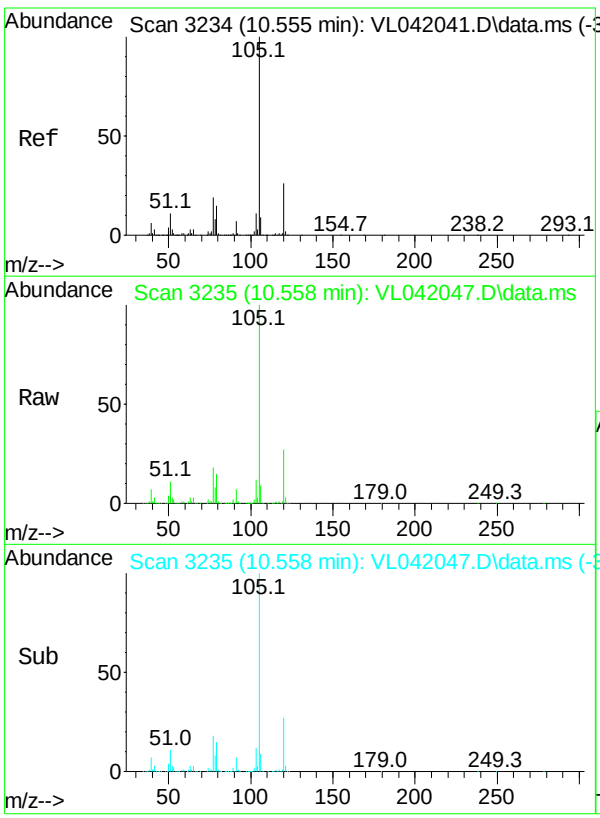


#61
Styrene
Concen: 12.446 ppbv
RT: 9.888 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:104 Resp: 363855

Ion	Ratio	Lower	Upper
104	100		
78	50.5	41.0	61.4
103	46.2	37.0	55.6

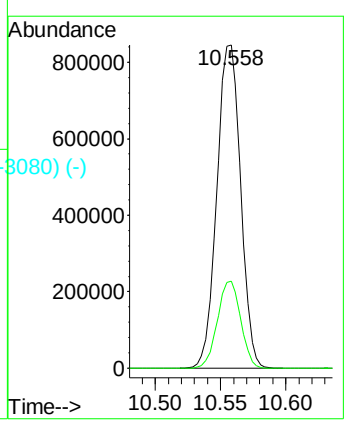


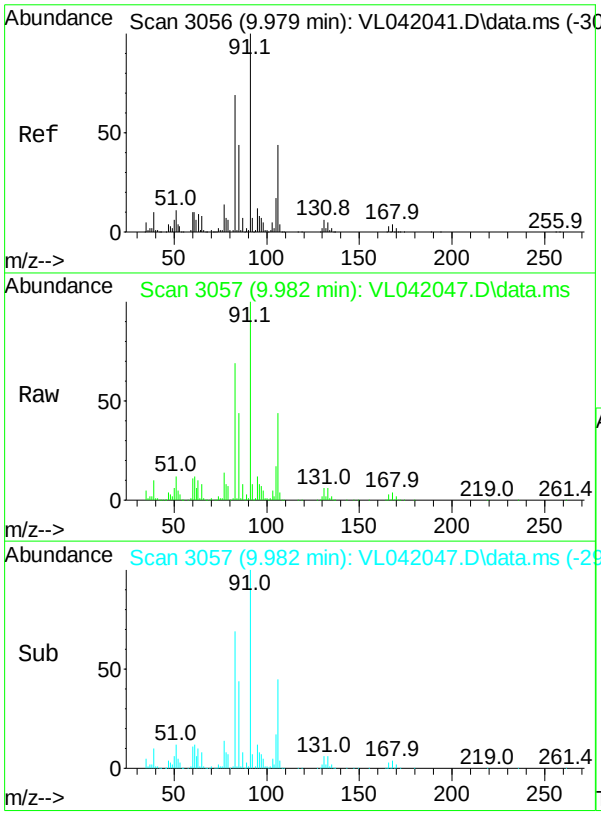


#62
Isopropylbenzene
Concen: 11.612 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 1068777

Ion	Ratio	Lower	Upper
105	100		
120	26.2	20.7	31.1

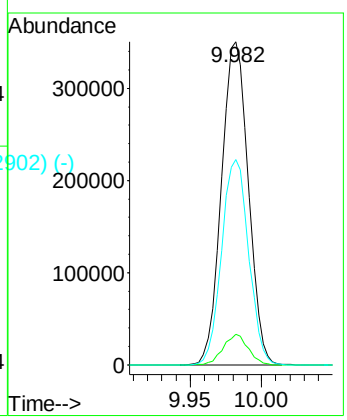




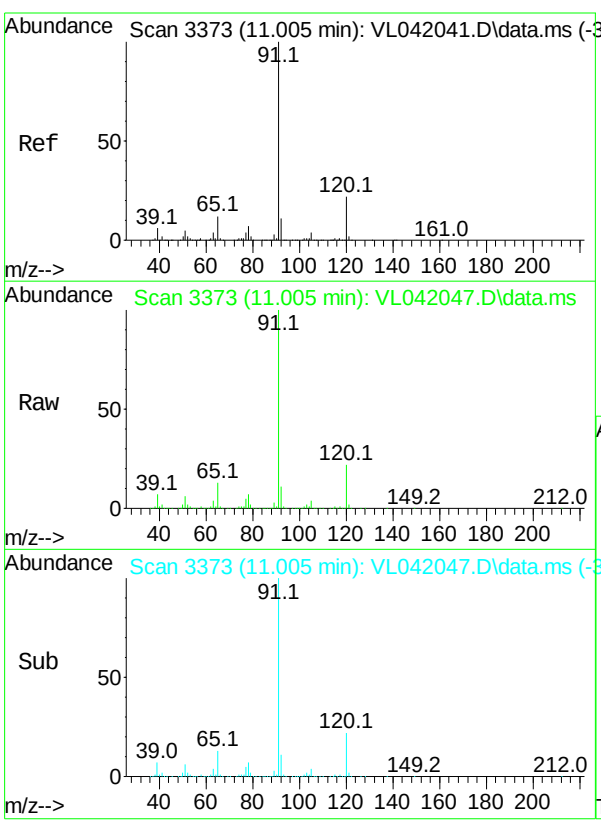
#63
1,1,2,2-Tetrachloroethar
Concen: 11.626 ppbv
RT: 9.982 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 83 Resp: 459839

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.7
85	63.9	32.1	96.3



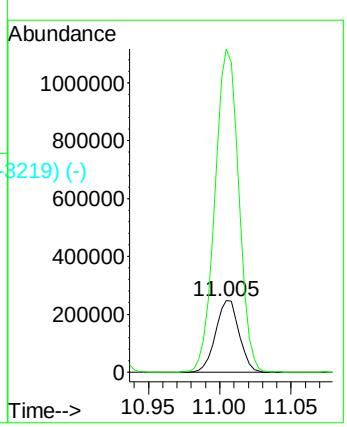
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



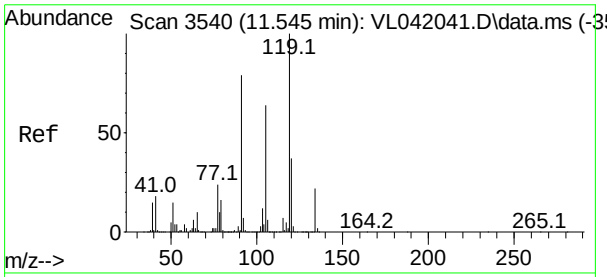
#64
n-propylbenzene
Concen: 12.486 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:120 Resp: 282364

Ion	Ratio	Lower	Upper
120	100		
91	460.6	370.6	556.0



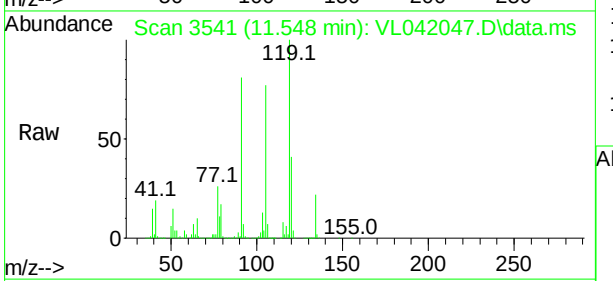
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

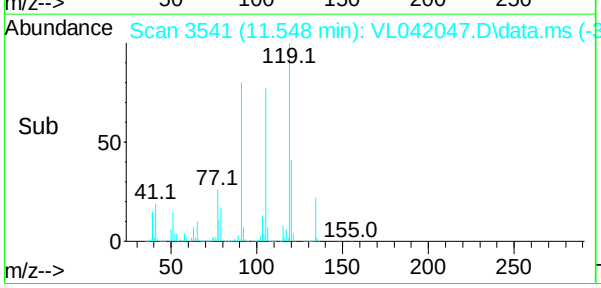


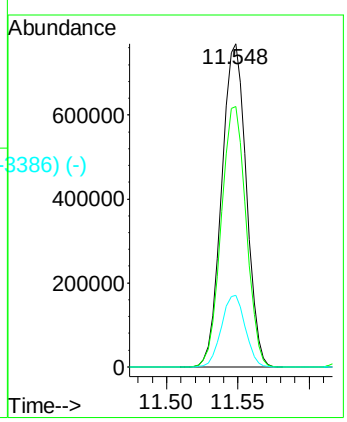
#65
tert-Butylbenzene
Concen: 11.526 ppbv
RT: 11.548 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

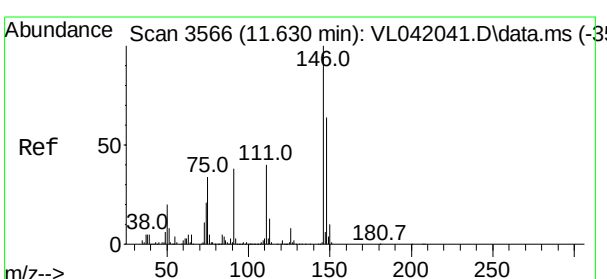
Tgt Ion:119 Resp: 924810

Ion	Ratio	Lower	Upper
119	100		
91	81.2	64.2	96.2
134	21.4	17.4	26.2





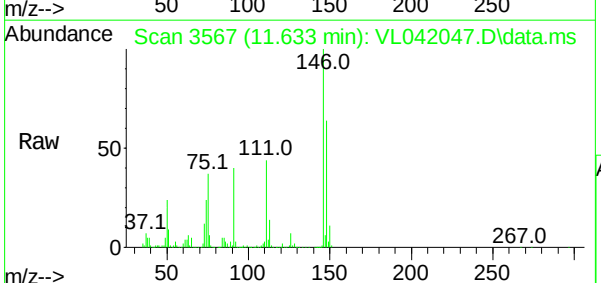


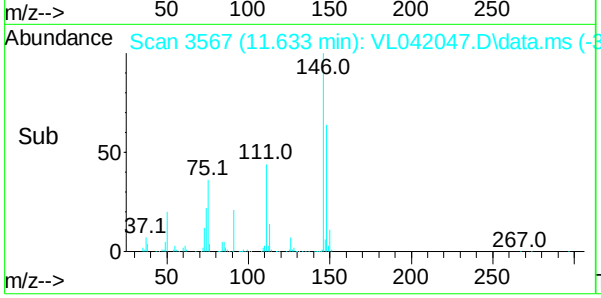


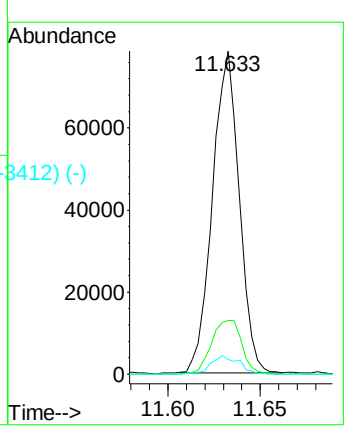
#66
Benzyl Chloride
Concen: 9.819 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

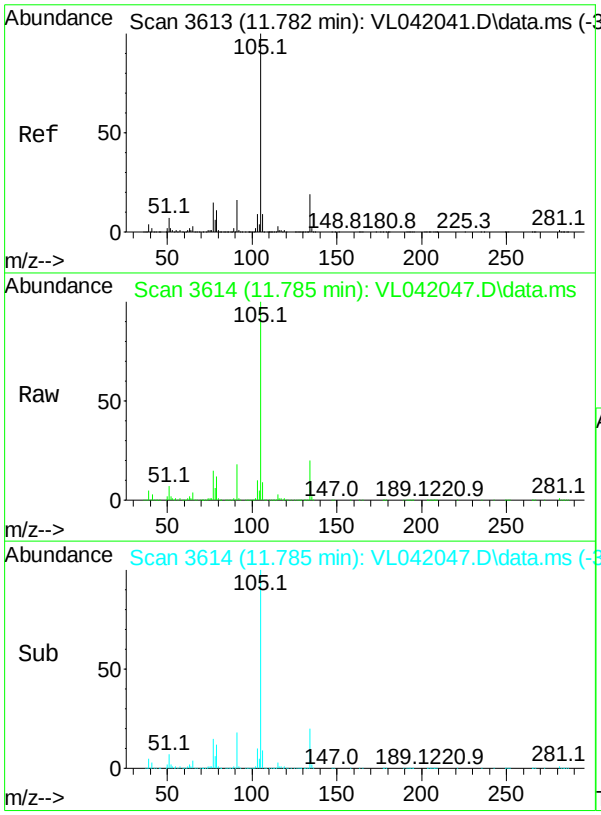
Tgt Ion: 91 Resp: 78975

Ion	Ratio	Lower	Upper
91	100		
126	19.0	14.5	21.7
128	6.0	5.4	8.2





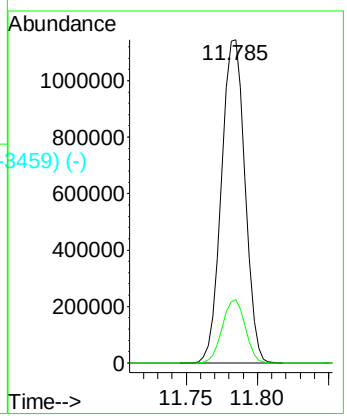


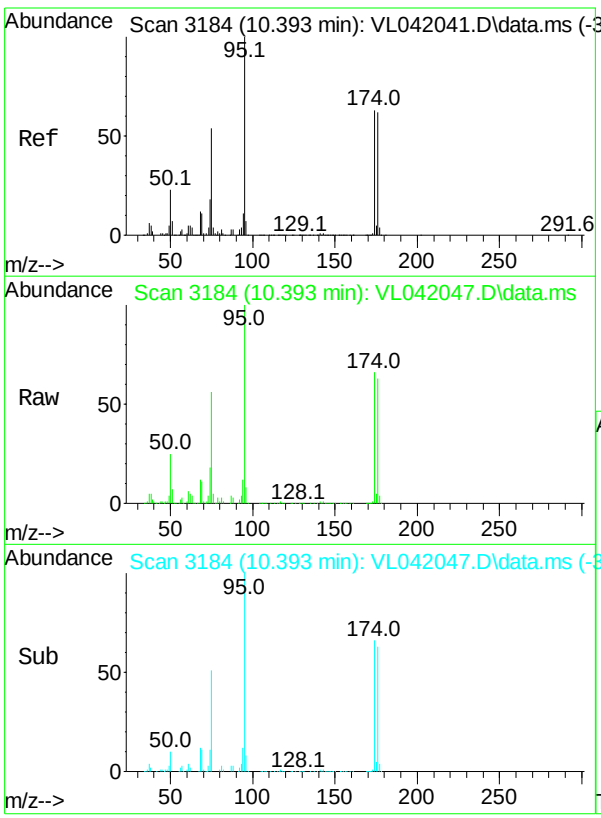


#67
sec-Butylbenzene
Concen: 11.674 ppbv
RT: 11.785 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 1315730

Ion	Ratio	Lower	Upper
105	100		
134	19.2	14.9	22.3

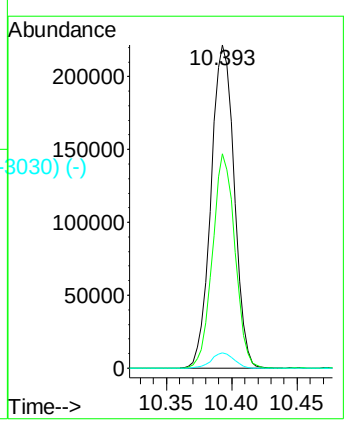




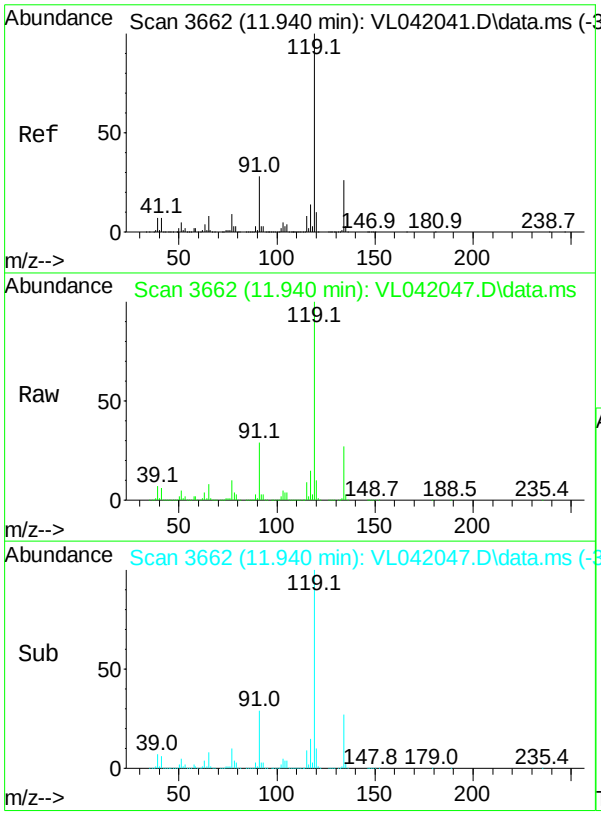
#68
1-Bromo-4-Fluorobenzene
Concen: 9.441 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 95 Resp: 273846

Ion	Ratio	Lower	Upper
95	100		
174	64.0	51.8	77.6
175	4.6	3.9	5.9



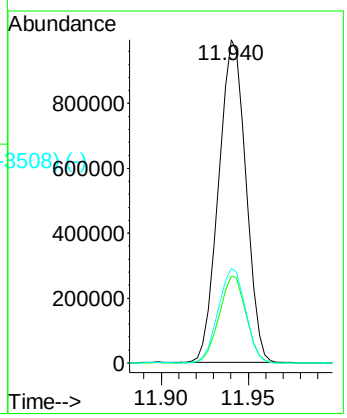
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

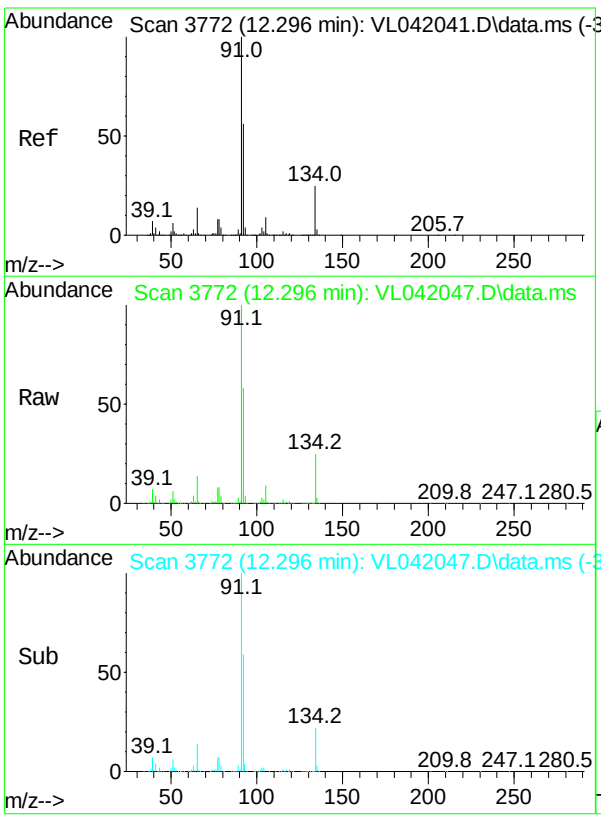


#69
p-Isopropyltoluene
Concen: 11.752 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:119 Resp: 1084253

Ion	Ratio	Lower	Upper
119	100		
134	26.6	20.9	31.3
91	29.4	23.1	34.7

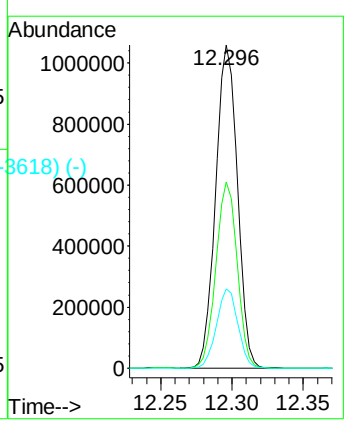




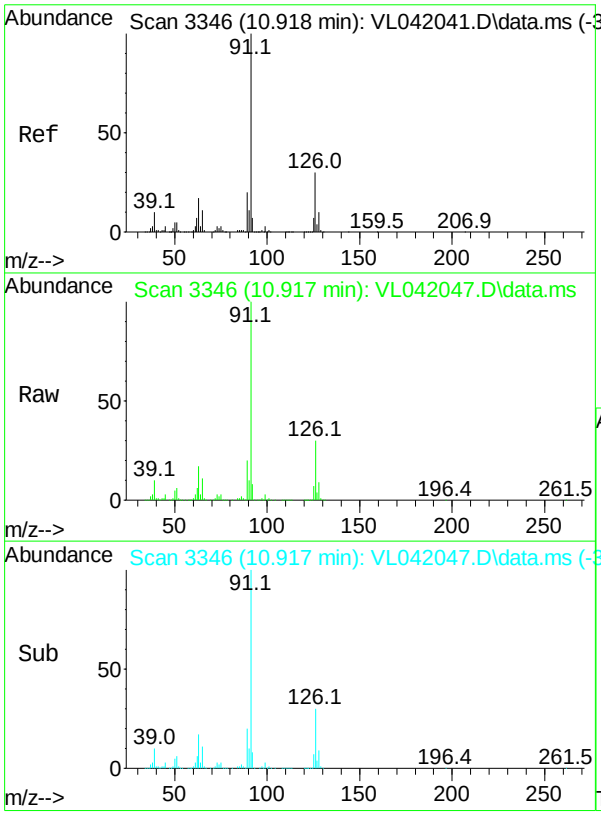
#70
n-Butylbenzene
Concen: 12.306 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 1118373

Ion	Ratio	Lower	Upper
91	100		
92	56.6	44.7	67.1
134	24.0	18.9	28.3



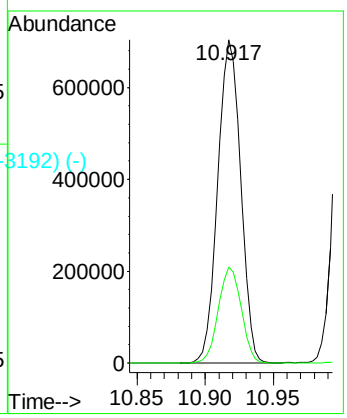
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

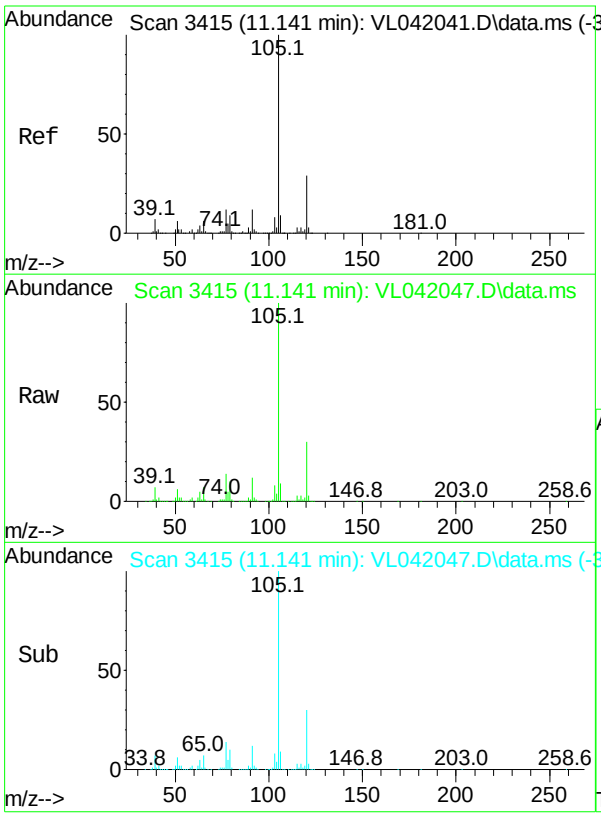


#71
2-Chlorotoluene
Concen: 11.804 ppbv
RT: 10.917 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion: 91 Resp: 818204

Ion	Ratio	Lower	Upper
91	100		
126	29.5	11.9	47.5

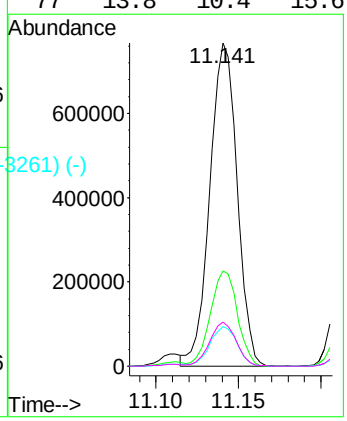




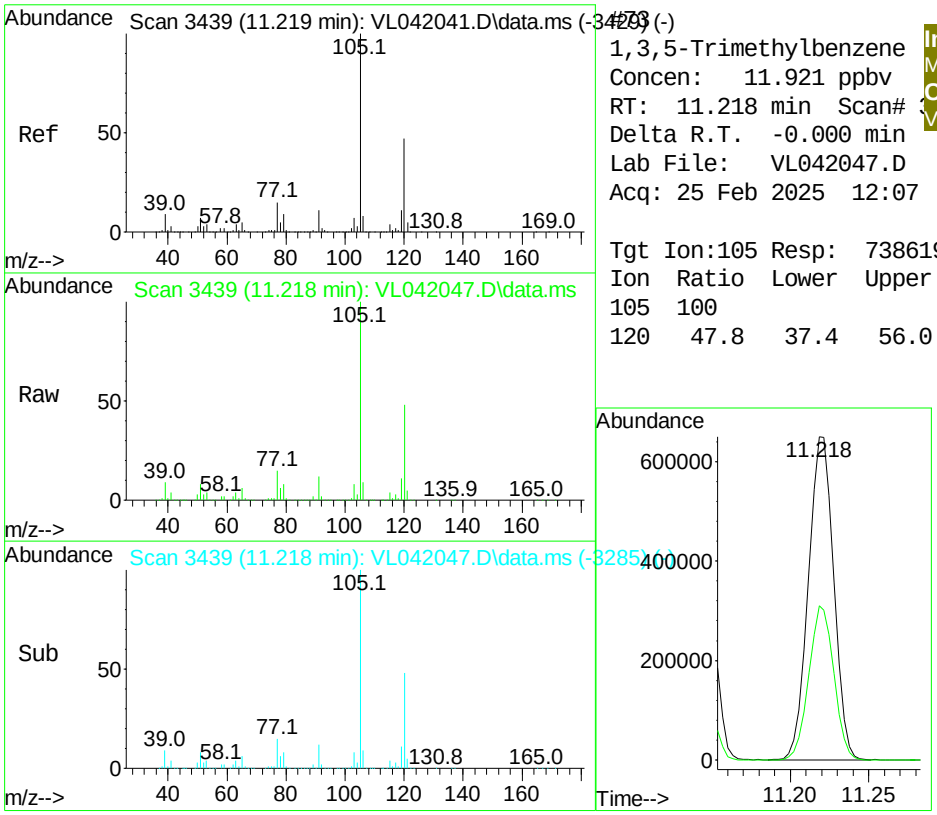
#72
4-Ethyltoluene
Concen: 12.264 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 880883

Ion	Ratio	Lower	Upper
105	100		
120	30.4	24.1	36.1
91	12.7	10.2	15.4
77	13.8	10.4	15.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

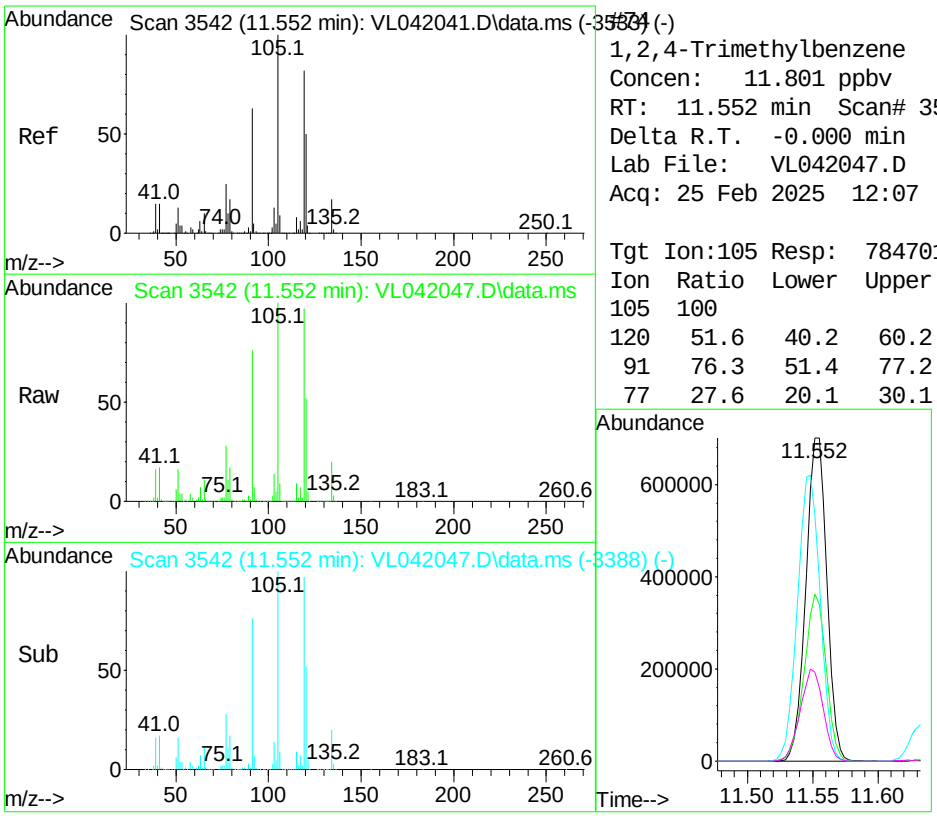


#73
1,3,5-Trimethylbenzene
Concen: 11.921 ppbv
RT: 11.218 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 738619

Ion	Ratio	Lower	Upper
105	100		
120	47.8	37.4	56.0

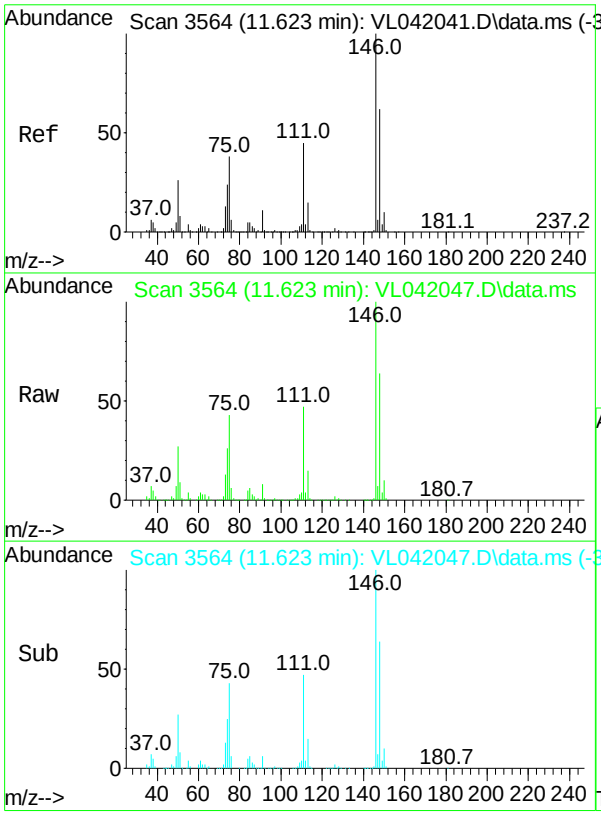
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



#74
1,2,4-Trimethylbenzene
Concen: 11.801 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:105 Resp: 784701

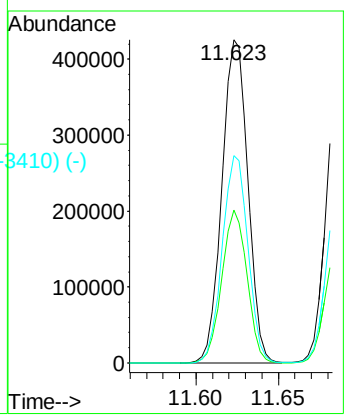
Ion	Ratio	Lower	Upper
105	100		
120	51.6	40.2	60.2
91	76.3	51.4	77.2
77	27.6	20.1	30.1

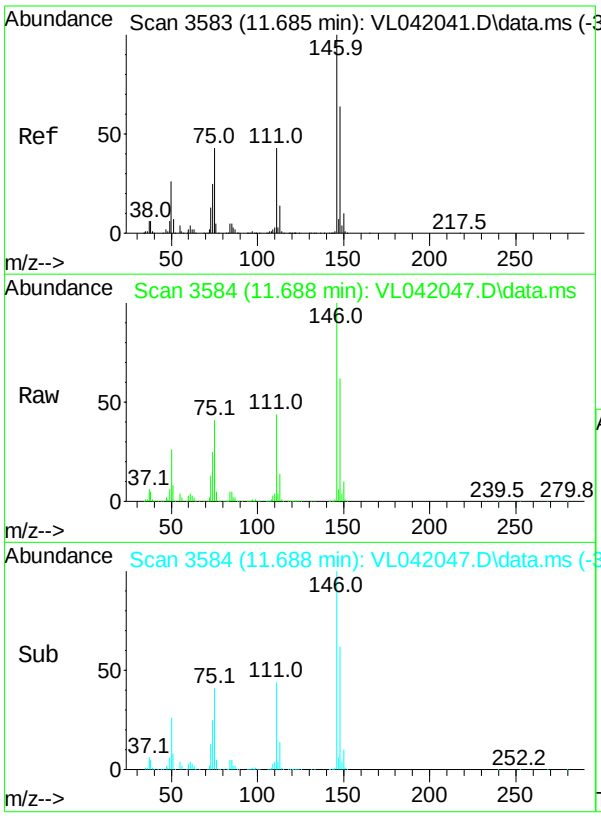


#75
1,3-Dichlorobenzene
Concen: 13.003 ppbv
RT: 11.623 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:146 Resp: 465436

Ion	Ratio	Lower	Upper
146	100		
111	46.0	22.4	67.2
148	63.5	32.3	96.8

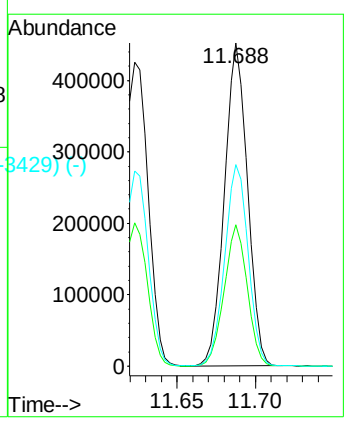




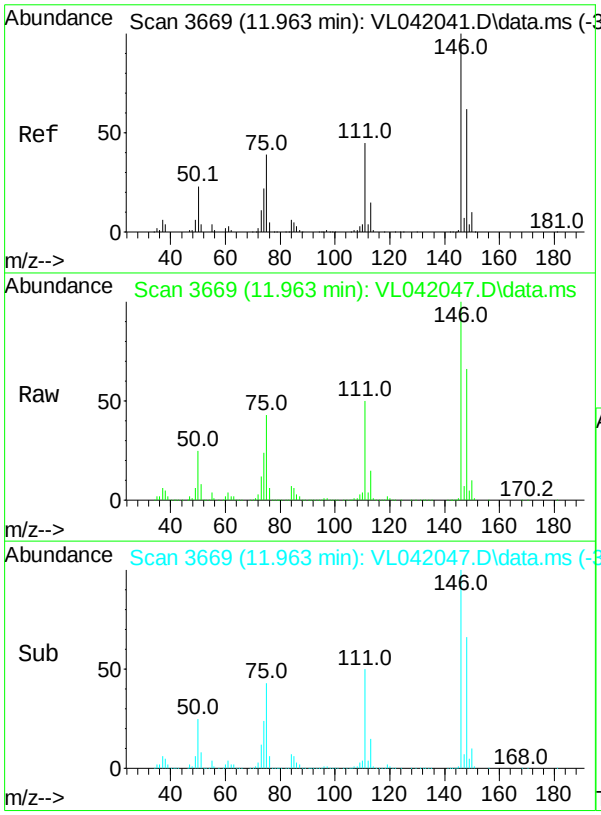
#76
1,4-Dichlorobenzene
Concen: 13.386 ppbv
RT: 11.688 min Scan# 3584
Delta R.T. 0.003 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:146 Resp: 467249

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.5	64.5
148	63.7	31.6	95.0



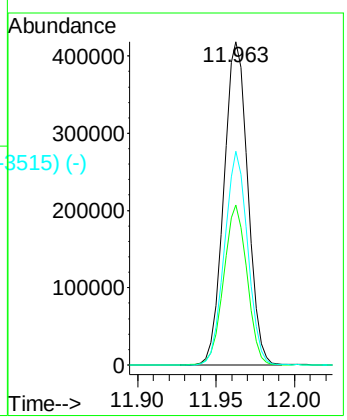
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



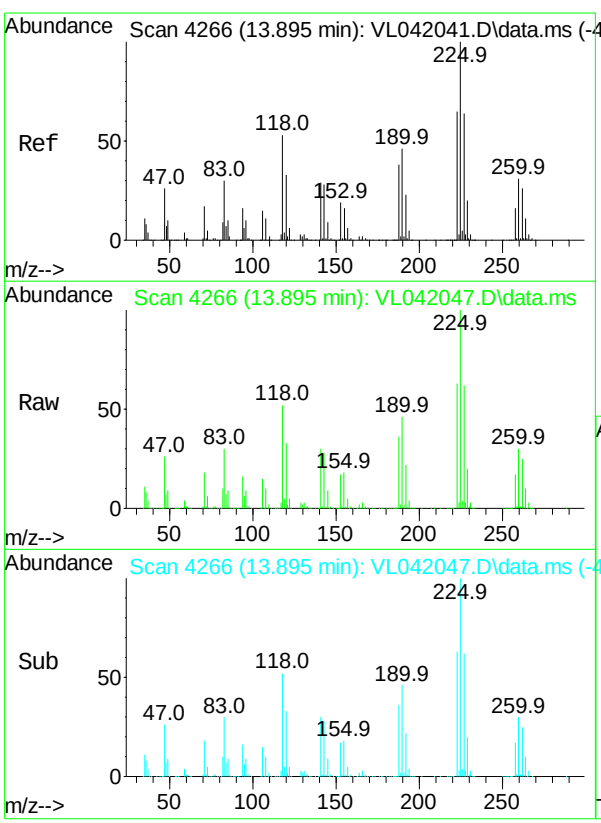
#57
1,2-Dichlorobenzene
Concen: 13.129 ppbv
RT: 11.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:146 Resp: 449222

Ion	Ratio	Lower	Upper
146	100		
111	48.1	23.2	69.6
148	64.0	31.4	94.2



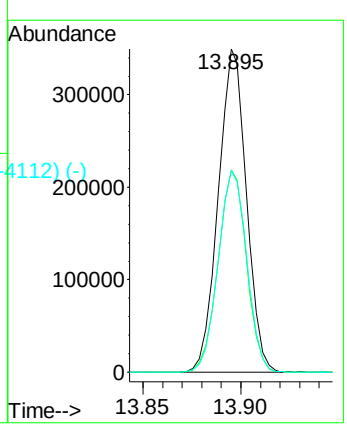
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



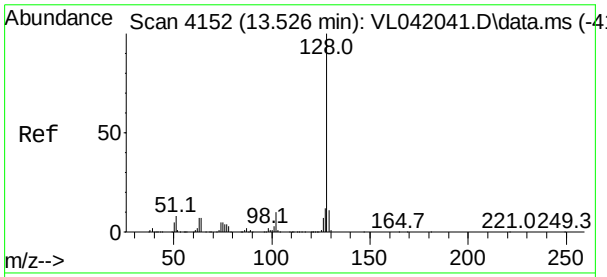
#58
Hexachloro-1,3-Butadiene
Concen: 12.403 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:225 Resp: 351085

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.2
227	63.4	50.8	76.2



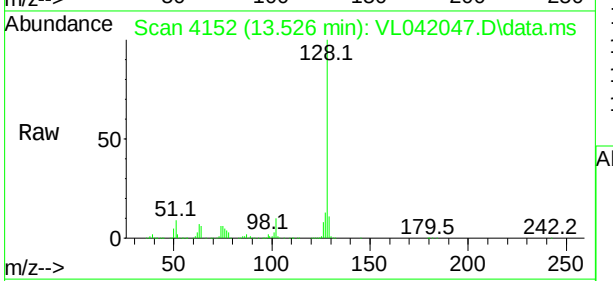
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

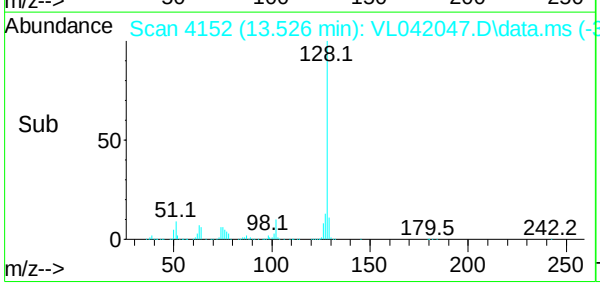


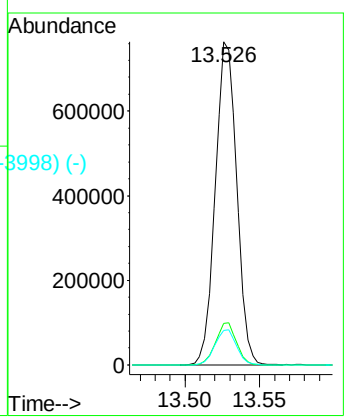
#79
Naphthalene
Concen: 11.696 ppbv
RT: 13.526 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

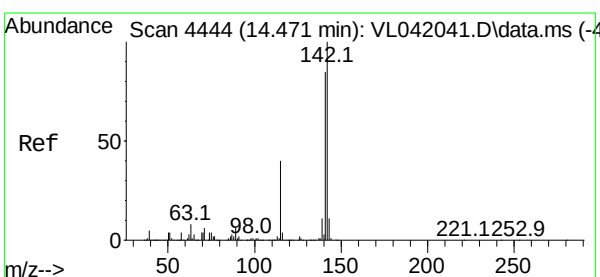
Tgt Ion:128 Resp: 764990

Ion	Ratio	Lower	Upper
128	100		
127	12.9	9.8	14.6
129	10.7	8.6	12.8





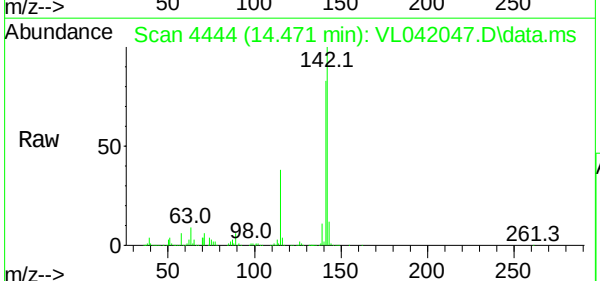


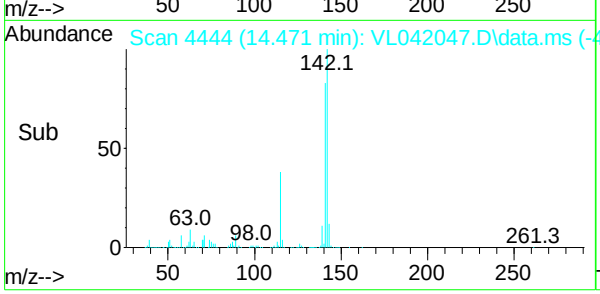


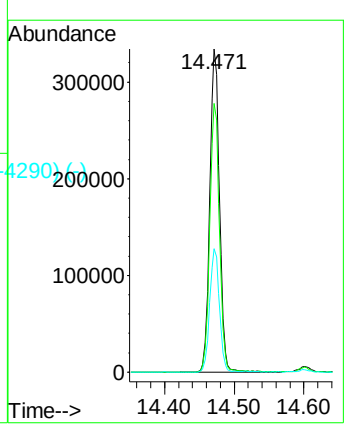
#80
Naphthalene,2-methyl-
Concen: 10.956 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

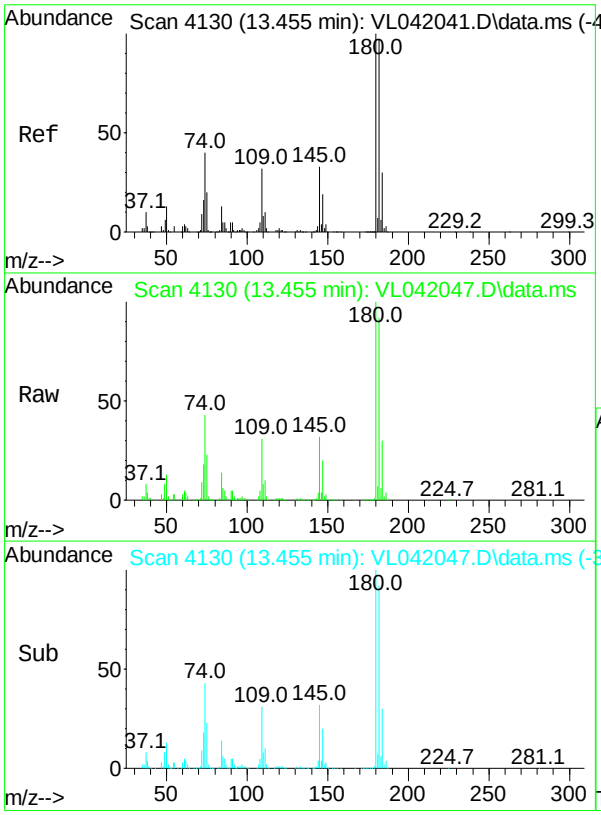
Tgt Ion:142 Resp: 324431

Ion	Ratio	Lower	Upper
142	100		
141	82.9	65.8	98.6
115	38.5	29.5	44.3





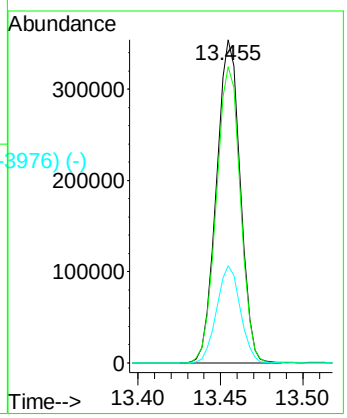




#81
1,2,4-Trichlorobenzene
Concen: 13.351 ppbv
RT: 13.455 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042047.D
Acq: 25 Feb 2025 12:07

Tgt Ion:180 Resp: 354990

Ion	Ratio	Lower	Upper
180	100		
182	92.9	75.1	112.7
184	29.9	23.8	35.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	158881	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	406520	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.904	117	350262	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	274527	10.188	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	158709	9.606	ppbv		99
3) Chlorodifluoromethane	1.479	51	219646	9.512	ppbv		100
4) Chloromethane	1.537	50	54628	8.941	ppbv		100
5) Vinyl Chloride	1.586	62	52672	9.114	ppbv		98
6) Bromomethane	1.673	94	25374	9.221	ppbv		100
7) Chloroethane	1.709	64	22174	9.443	ppbv	#	87
8) Dichlorotetrafluoroethane	1.560	85	127046	9.354	ppbv		100
9) Propene	1.489	41	90844	9.657	ppbv		96
10) Heptane	5.010	43	269133	9.188	ppbv		99
11) Trichlorofluoromethane	1.884	101	156871	9.476	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.149	101	115089	8.715	ppbv		99
13) Ethanol	1.728	45	2630	4.404	ppbv		98
14) Bromoethene	1.790	108	43546	9.338	ppbv		98
15) Acetone	1.842	43	118697	8.460	ppbv		97
16) 1,3-Butadiene	1.615	39	61603	9.434	ppbv		98
17) tert-Butyl alcohol	2.049	59	154116	8.779	ppbv		98
18) 1,1-Dichloroethene	2.042	96	51973	8.711	ppbv		98
19) Isopropyl Alcohol	1.894	45	69546	8.629	ppbv		96
20) Methylene Chloride	2.072	84	42028	7.919	ppbv		96
21) Allyl Chloride	2.104	41	90745	8.951	ppbv		98
22) trans-1,2-Dichloroethene	2.350	96	59140	8.502	ppbv		98
23) Vinyl Acetate	2.476	43	93605	9.488	ppbv	#	98
24) 1,1-Dichloroethane	2.421	63	112869	8.721	ppbv		100
25) Ethyl Acetate	2.852	43	533113	9.492	ppbv		99
26) Hexane	2.839	57	208955	9.203	ppbv		97
27) Carbon Disulfide	2.159	76	138176	8.978	ppbv		97
28) Methyl tert-Butyl Ether	2.453	73	94554	8.365	ppbv		100
29) Chloroform	2.865	83	281191	9.202	ppbv		97
30) Cyclohexane	3.878	84	168830	9.161	ppbv		94
31) cis-1,2-Dichloroethene	2.735	61	199564	9.285	ppbv		99
32) 1,1,1-Trichloroethane	3.386	97	278512	9.396	ppbv		98
34) 2-Butanone	2.570	43	308064	9.727	ppbv		97
35) Carbon Tetrachloride	3.784	117	276599	9.867	ppbv		98
36) Benzene	3.677	78	399804	9.395	ppbv		98
37) 1,2-Dichloroethane	3.233	62	223946	9.491	ppbv		99
38) Trichloroethene	4.573	130	156488	9.005	ppbv		96
39) 1,2-Dichloropropane	4.340	63	152063	9.414	ppbv		97
40) 1,4-Dioxane	4.616	88	65010	8.817	ppbv	#	98
41) Tetrahydrofuran	3.072	42	181453	9.696	ppbv		99
42) Bromodichloromethane	4.512	83	305385	9.606	ppbv		97
43) Methyl Methacrylate	4.910	69	160954	9.685	ppbv		95
44) 2,2,4-Trimethylpentane	4.667	57	712051	9.480	ppbv		99
45) t-1,3-Dichloropropene	6.447	75	159680	9.671	ppbv		90

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

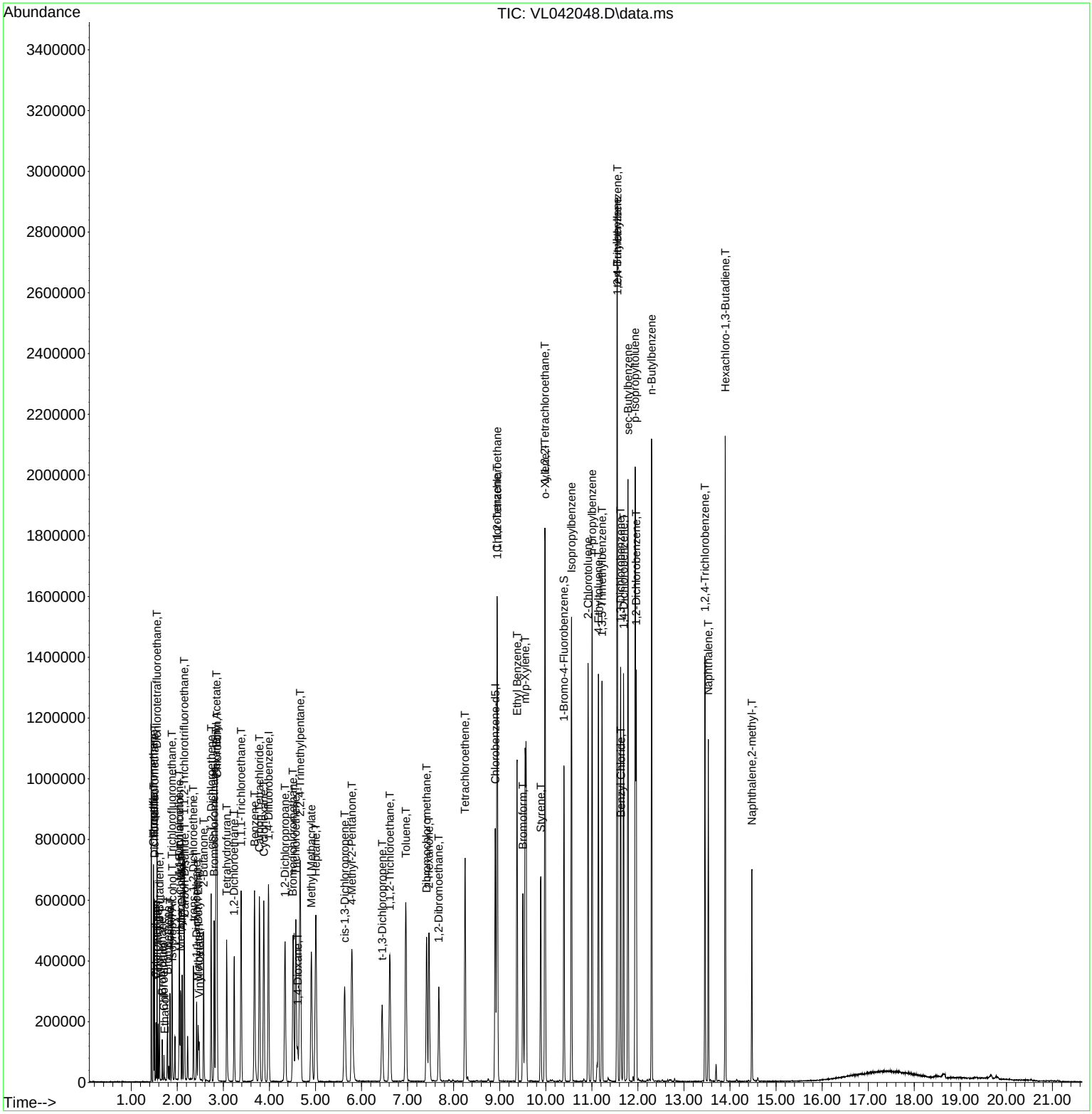
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.635	75	206836	9.680	ppbv		96
47)	1,1,2-Trichloroethane	6.613	97	148220	9.039	ppbv		95
48)	Dibromochloromethane	7.412	129	241593	9.407	ppbv		100
49)	Bromoform	9.503	173	210370	9.432	ppbv		98
50)	4-Methyl-2-Pentanone	5.790	43	431123	10.526	ppbv		98
51)	2-Hexanone	7.464	43	354515	12.576	ppbv	#	100
52)	Tetrachloroethene	8.247	164	134062	9.202	ppbv		97
53)	Toluene	6.962	91	448495	9.430	ppbv		98
54)	1,2-Dibromoethane	7.677	107	206335	9.307	ppbv		96
56)	1,1,1,2-Tetrachloroethane	8.946	131	182800	9.234	ppbv		99
57)	Chlorobenzene	8.943	112	334696	9.216	ppbv		99
58)	Ethyl Benzene	9.377	91	613622	9.513	ppbv		99
59)	m/p-Xylene	9.551	91	505100	9.840	ppbv	#	100
60)	o-Xylene	9.985	91	481683	9.334	ppbv		100
61)	Styrene	9.891	104	241617	9.959	ppbv		99
62)	Isopropylbenzene	10.558	105	729350	9.437	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.982	83	312794	9.204	ppbv		99
64)	n-propylbenzene	11.008	120	192704	9.506	ppbv		99
65)	tert-Butylbenzene	11.548	119	632202	8.988	ppbv		100
66)	Benzyl Chloride	11.633	91	52645	9.808	ppbv		98
67)	sec-Butylbenzene	11.785	105	914405	9.090	ppbv		99
69)	p-Isopropyltoluene	11.940	119	753761	9.418	ppbv		100
70)	n-Butylbenzene	12.296	91	781034	9.560	ppbv		99
71)	2-Chlorotoluene	10.917	91	559993	9.399	ppbv		100
72)	4-Ethyltoluene	11.144	105	602156	9.557	ppbv		99
73)	1,3,5-Trimethylbenzene	11.222	105	505451	9.248	ppbv		100
74)	1,2,4-Trimethylbenzene	11.555	105	547176	8.891	ppbv		95
75)	1,3-Dichlorobenzene	11.623	146	324491	9.161	ppbv		98
76)	1,4-Dichlorobenzene	11.688	146	322712	9.176	ppbv		99
77)	1,2-Dichlorobenzene	11.963	146	312159	9.081	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.895	225	228480	8.543	ppbv		99
79)	Naphthalene	13.529	128	513148	12.160	ppbv		98
80)	Naphthalene,2-methyl-	14.474	142	198077	17.152	ppbv		98
81)	1,2,4-Trichlorobenzene	13.455	180	234354	9.965	ppbv		97

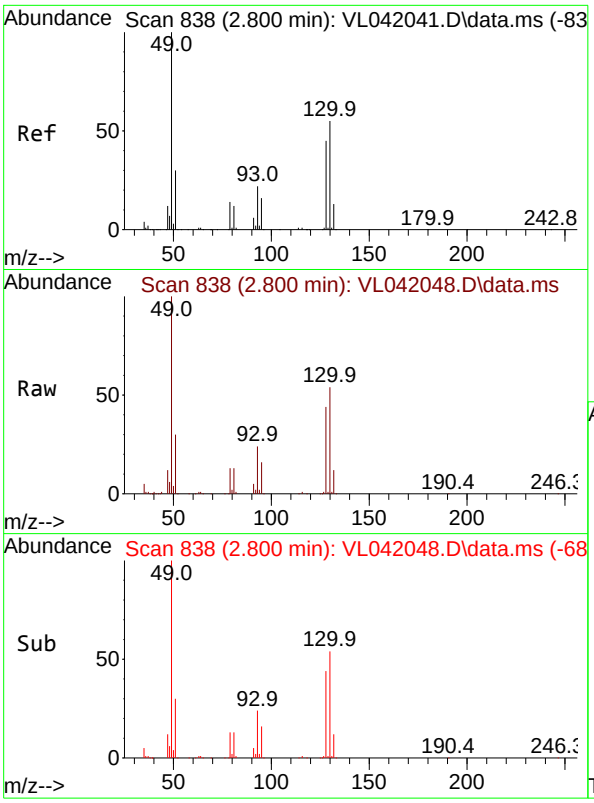
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



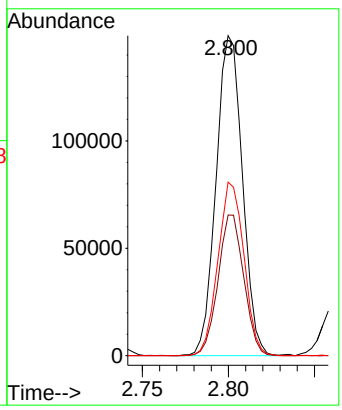


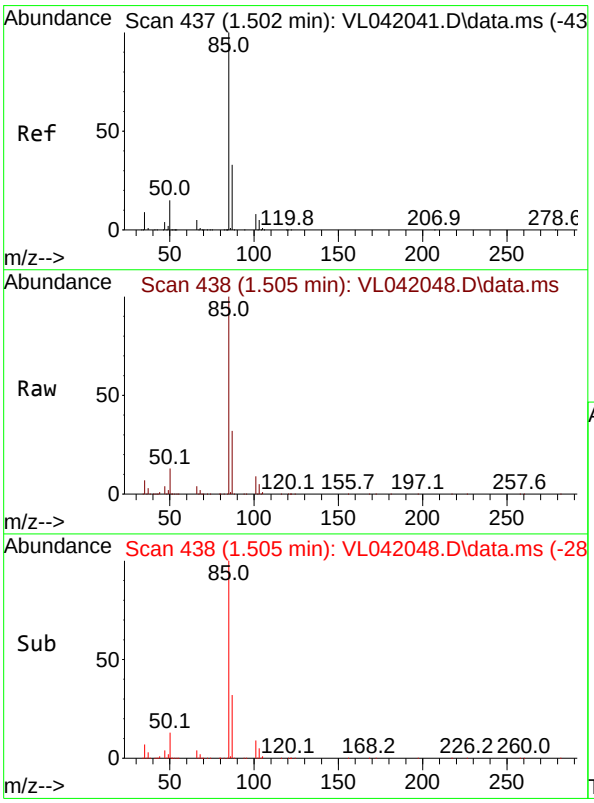
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 49 Resp: 158881

Ion	Ratio	Lower	Upper
49	100		
128	43.0	21.6	64.8
130	53.4	27.8	83.4

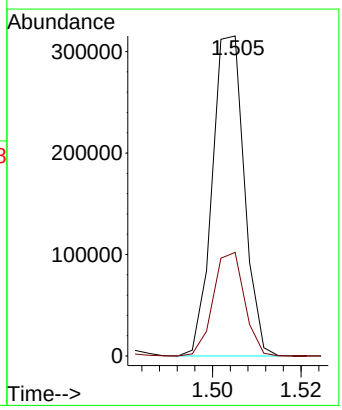


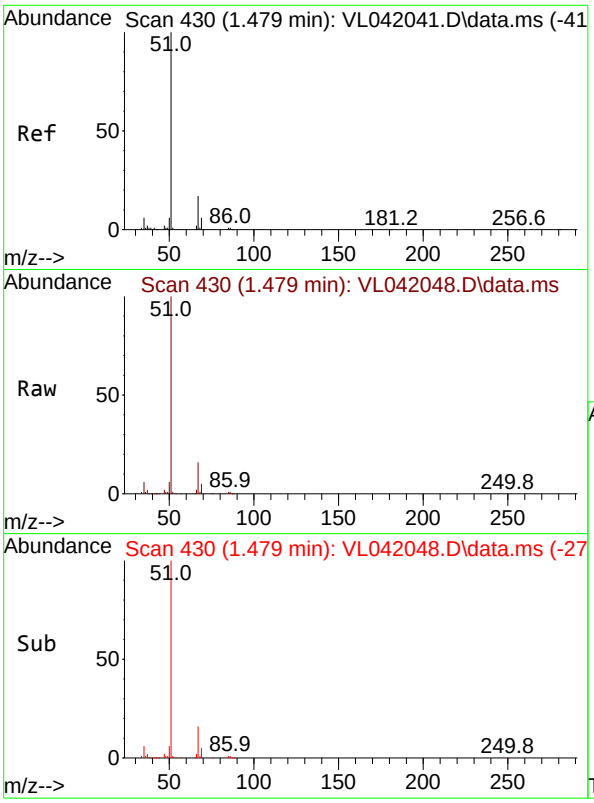


#2
Dichlorodifluoromethane
Concen: 9.606 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 85 Resp: 158709

Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.4	39.6



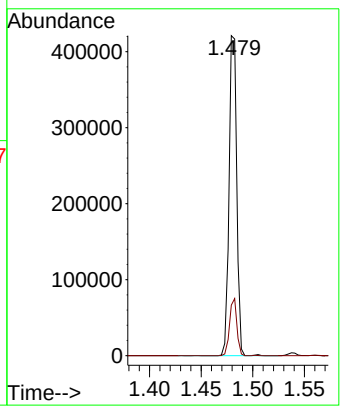


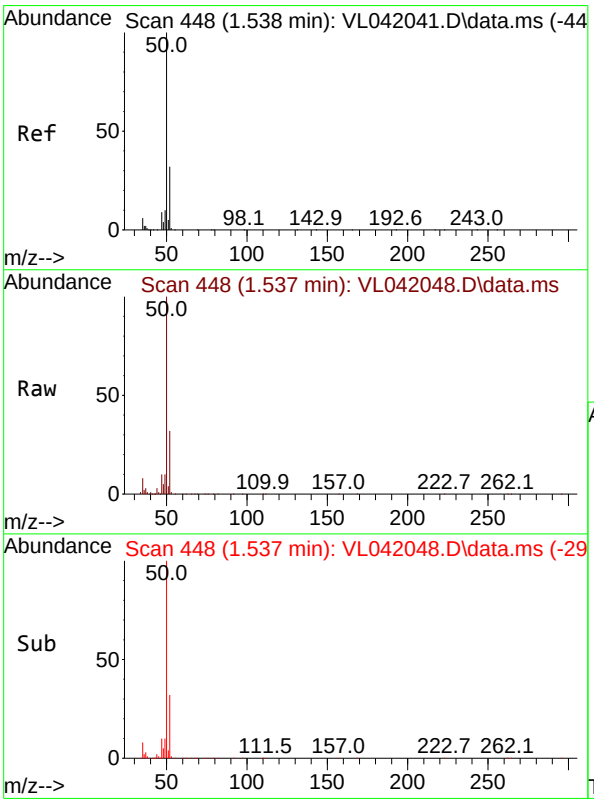
#3
Chlorodifluoromethane
Concen: 9.512 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 51 Resp: 219646

Ion	Ratio	Lower	Upper
51	100		
67	16.9	13.7	20.5

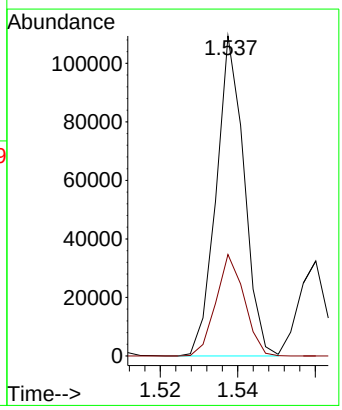


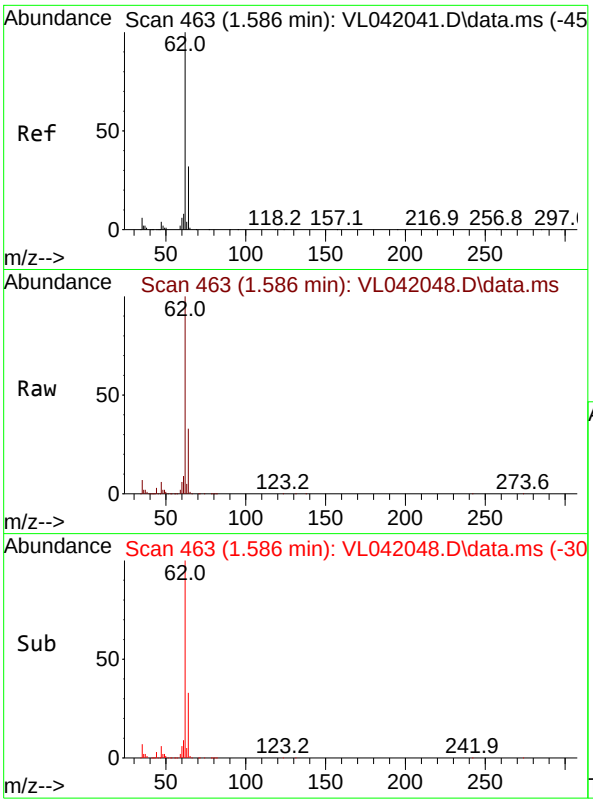


#4
Chloromethane
Concen: 8.941 ppbv
RT: 1.537 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 50 Resp: 54628

Ion	Ratio	Lower	Upper
50	100		
52	31.7	25.4	38.0



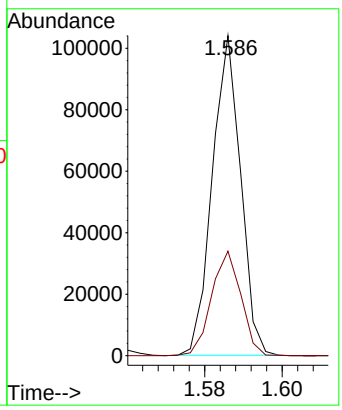


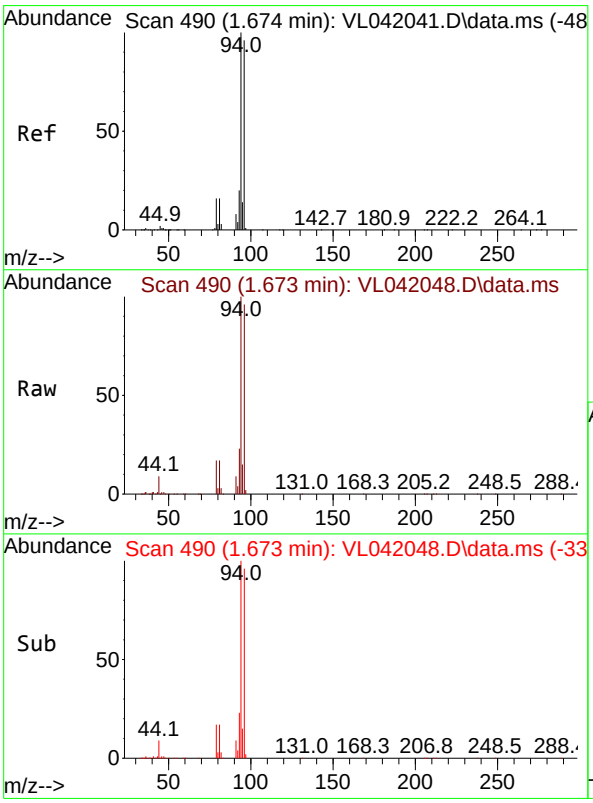
#5
Vinyl Chloride
Concen: 9.114 ppbv
RT: 1.586 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 62 Resp: 52672

Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.3	37.9

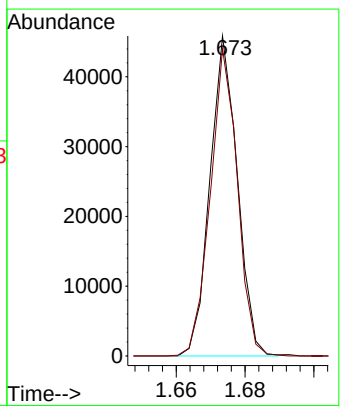


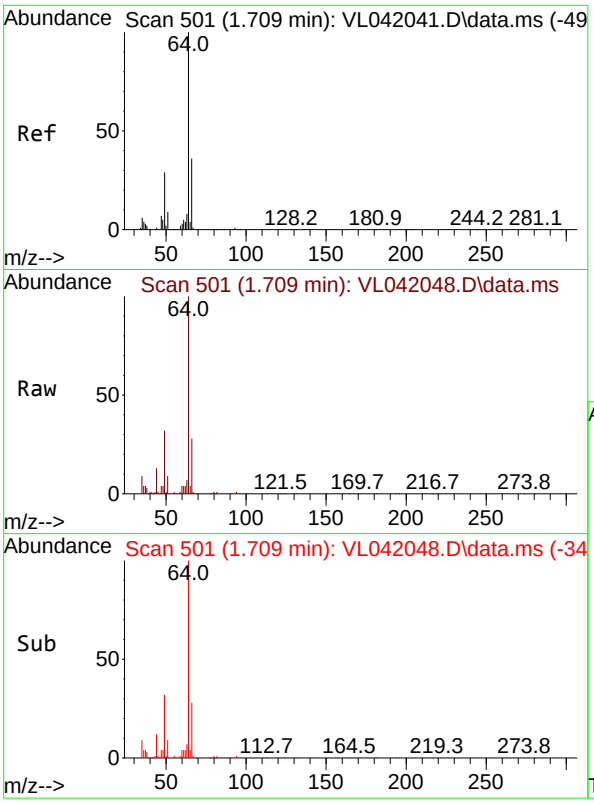


#6
Bromomethane
Concen: 9.221 ppbv
RT: 1.673 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 94 Resp: 25374

Ion	Ratio	Lower	Upper
94	100		
96	96.0	76.5	114.7



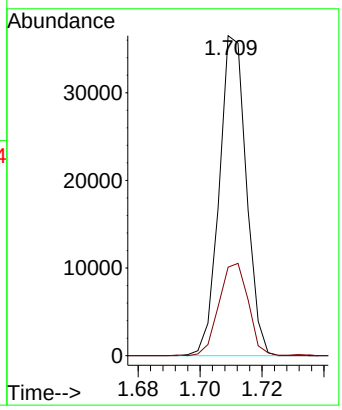


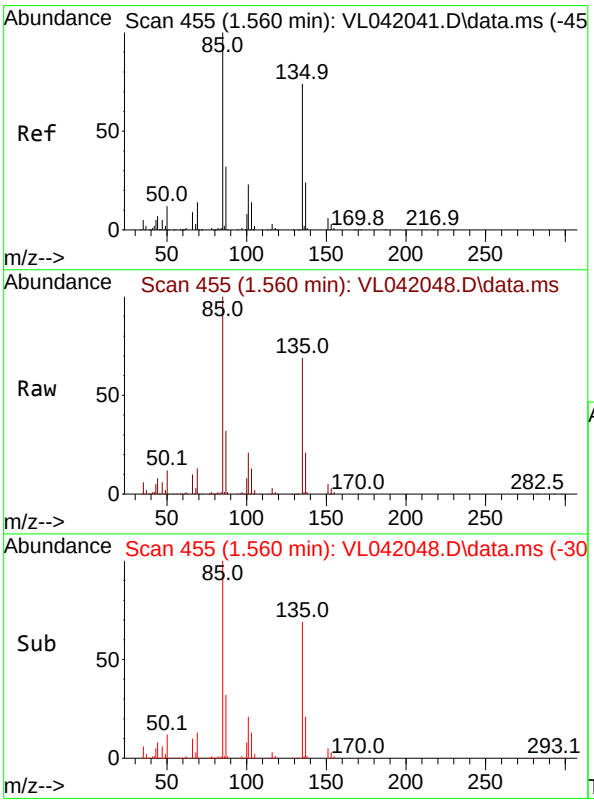
#7
Chloroethane
Concen: 9.443 ppbv
RT: 1.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 64 Resp: 22174

Ion	Ratio	Lower	Upper
64	100		
66	27.6	28.4	42.6#

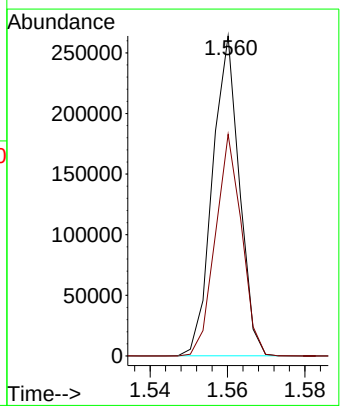


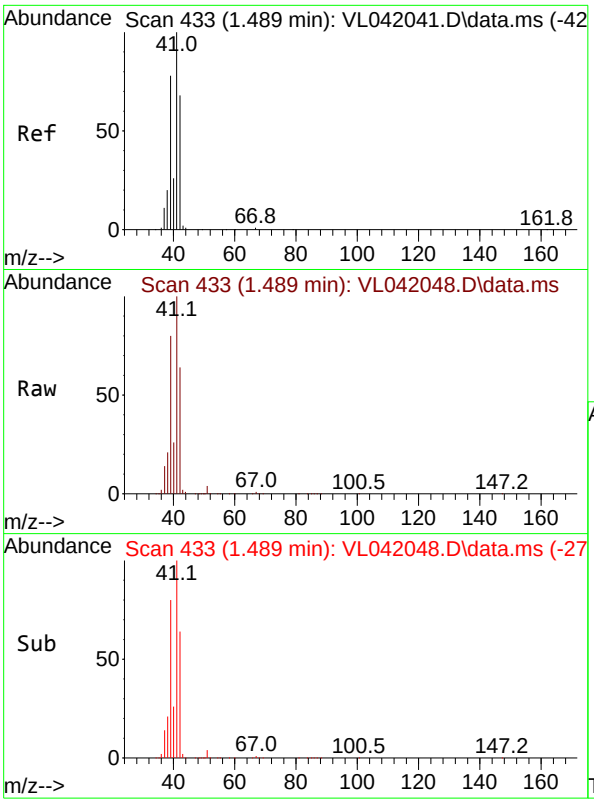


#8
Dichlorotetrafluoroethane
Concen: 9.354 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 85 Resp: 127046

Ion	Ratio	Lower	Upper
85	100		
135	68.0	54.6	81.8



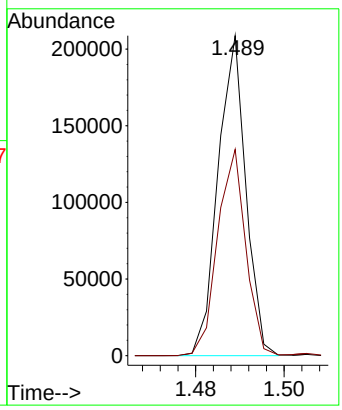


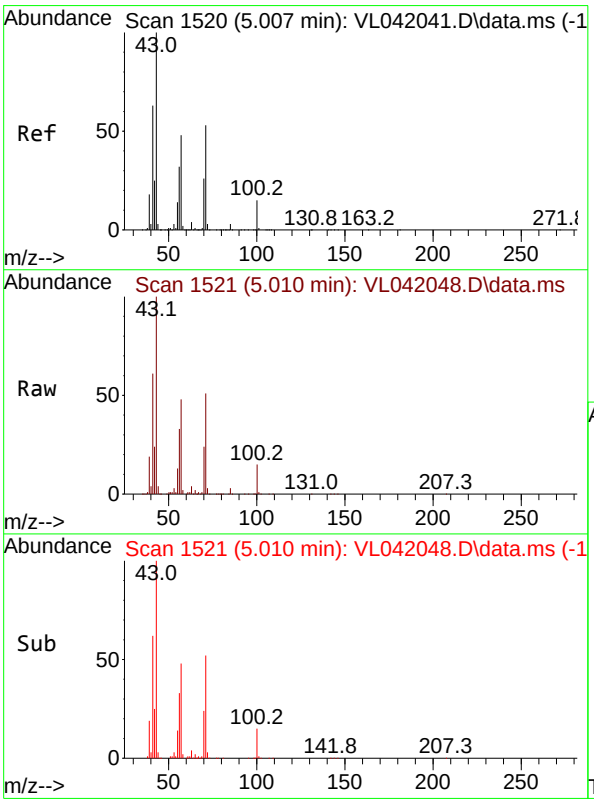
#9
Propene
Concen: 9.657 ppbv
RT: 1.489 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 41 Resp: 90844

Ion	Ratio	Lower	Upper
41	100		
42	66.2	55.8	83.6

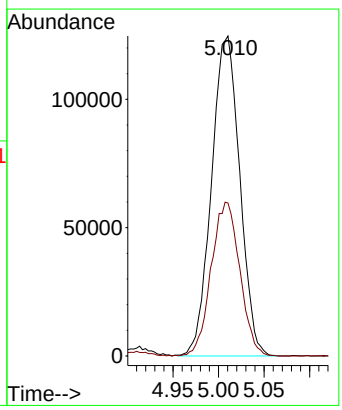


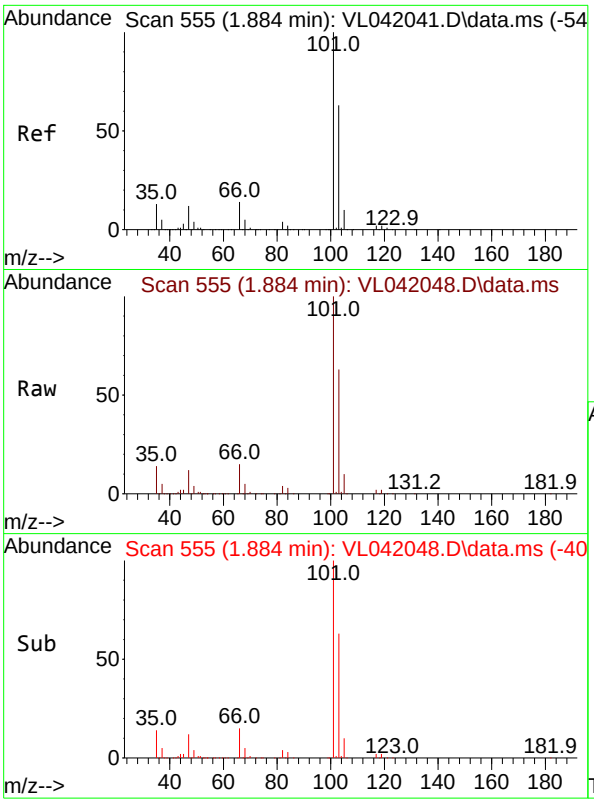


#10
Heptane
Concen: 9.188 ppbv
RT: 5.010 min Scan# 1521
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 43 Resp: 269133

Ion	Ratio	Lower	Upper
43	100		
57	48.6	39.4	59.0



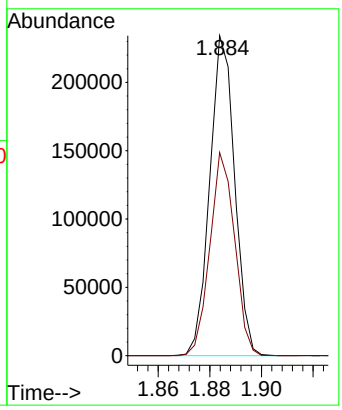


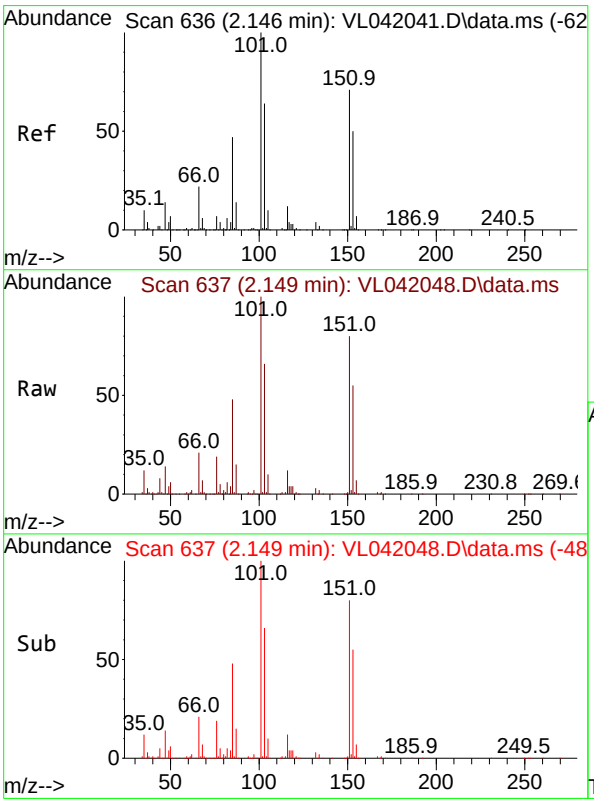
#11
Trichlorofluoromethane
Concen: 9.476 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:101 Resp: 156871

Ion	Ratio	Lower	Upper
101	100		
103	63.5	50.6	75.8

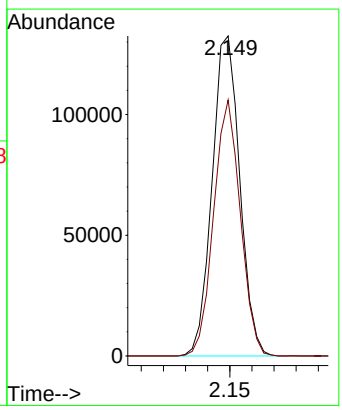


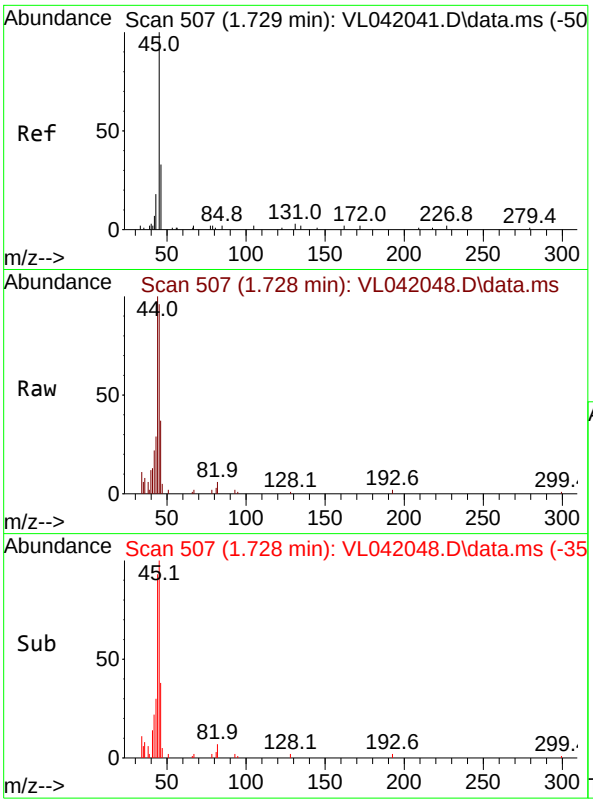


#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.715 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:101 Resp: 115089

Ion	Ratio	Lower	Upper
101	100		
151	77.3	62.6	94.0



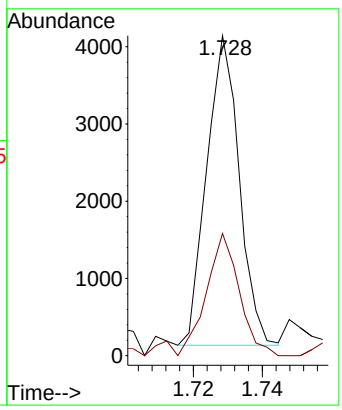


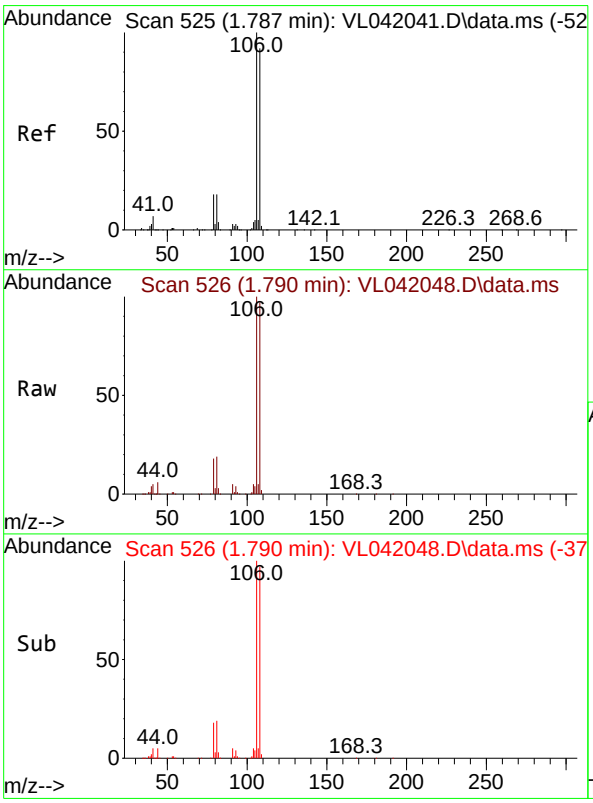
#13
Ethanol
Concen: 4.404 ppbv
RT: 1.728 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 45 Resp: 2630

Ion	Ratio	Lower	Upper
45	100		
46	44.0	17.1	68.3

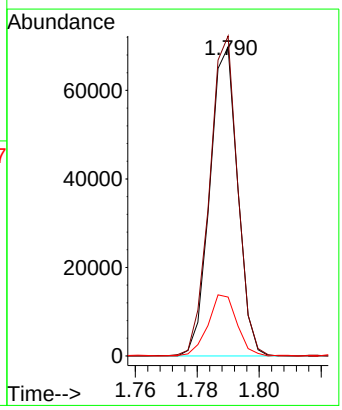


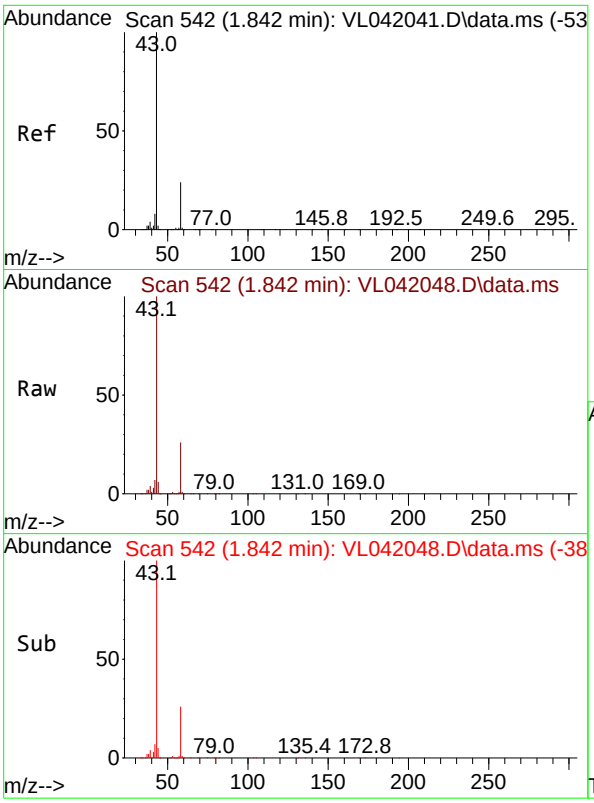


#14
Bromoethene
Concen: 9.338 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:108 Resp: 43546

Ion	Ratio	Lower	Upper
108	100		
106	104.1	85.4	128.0
79	21.0	16.5	24.7



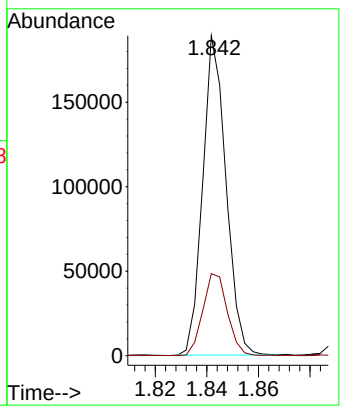


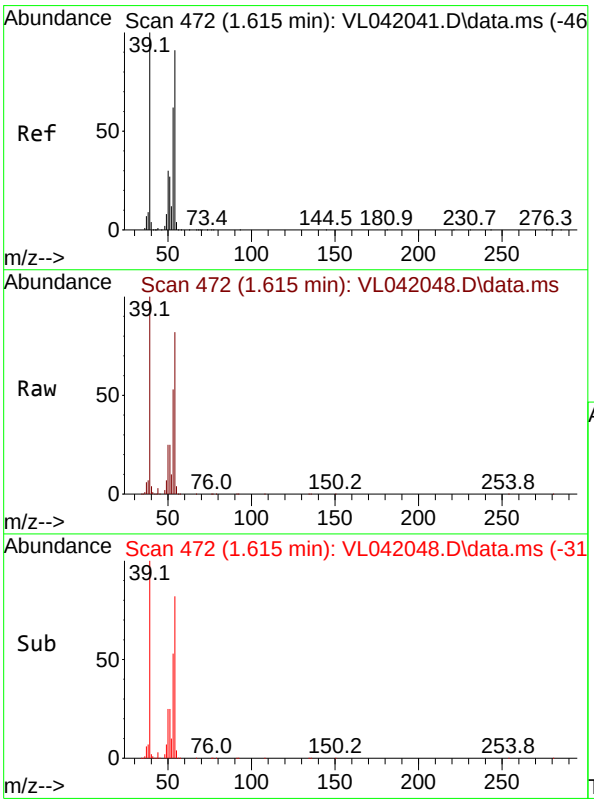
#15
Acetone
Concen: 8.460 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 43 Resp: 118697

Ion	Ratio	Lower	Upper
43	100		
58	27.3	20.7	31.1

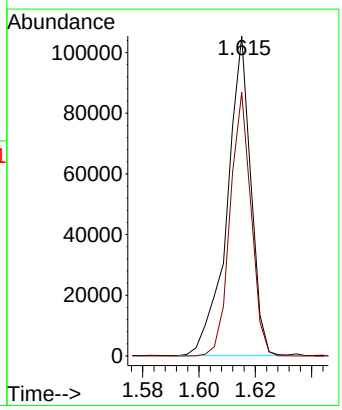


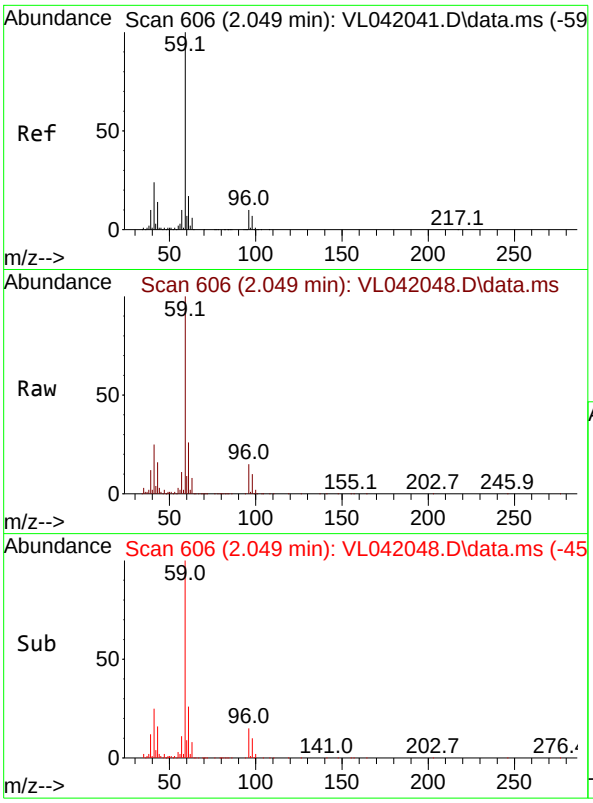


#16
1,3-Butadiene
Concen: 9.434 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 39 Resp: 61603

Ion	Ratio	Lower	Upper
39	100		
54	72.5	59.6	89.4



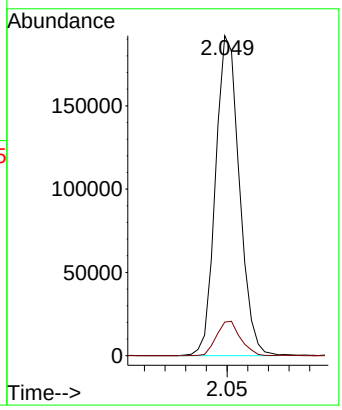


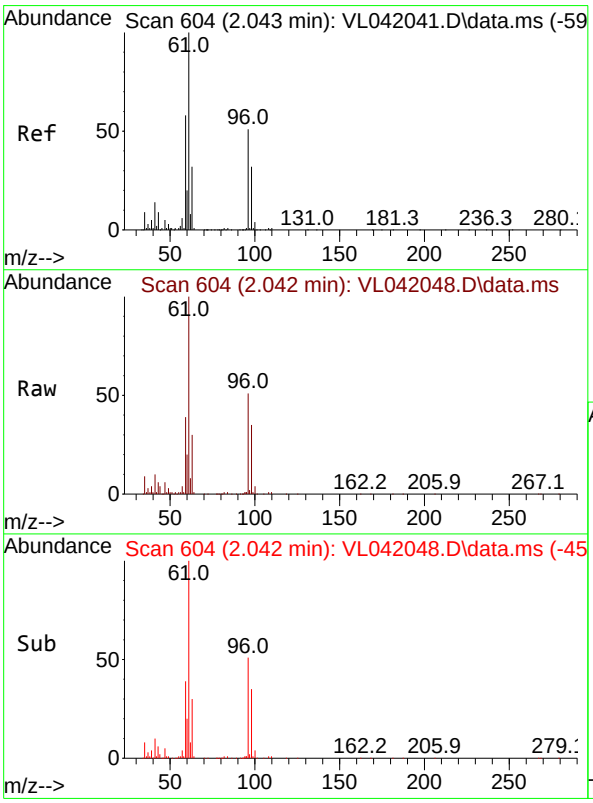
#17
tert-Butyl alcohol
Concen: 8.779 ppbv
RT: 2.049 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 59 Resp: 154116

Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.3	13.9

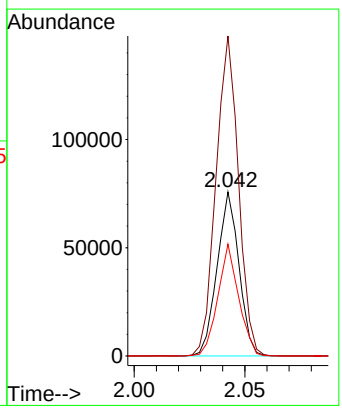


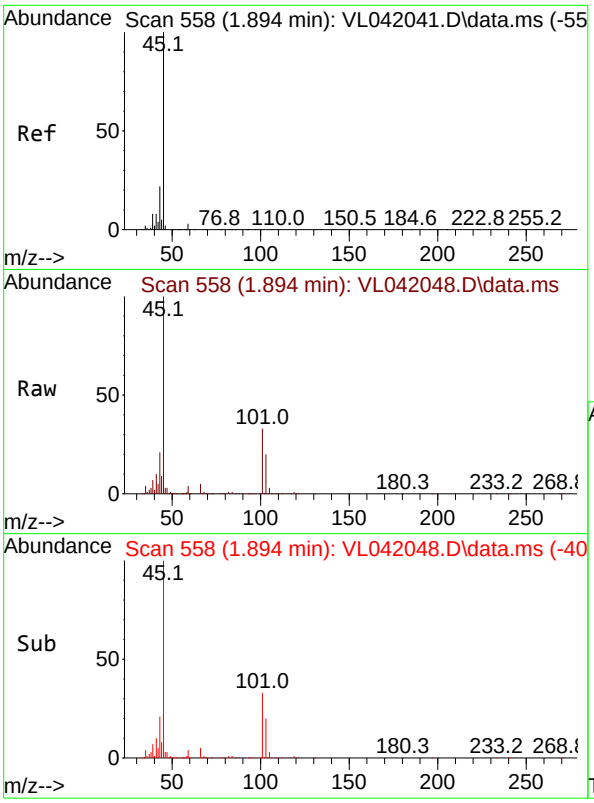


#18
1,1-Dichloroethene
Concen: 8.711 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 96 Resp: 51973

Ion	Ratio	Lower	Upper
96	100		
61	195.1	156.0	234.0
98	68.3	49.4	74.2



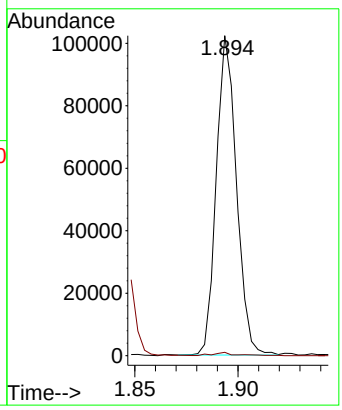


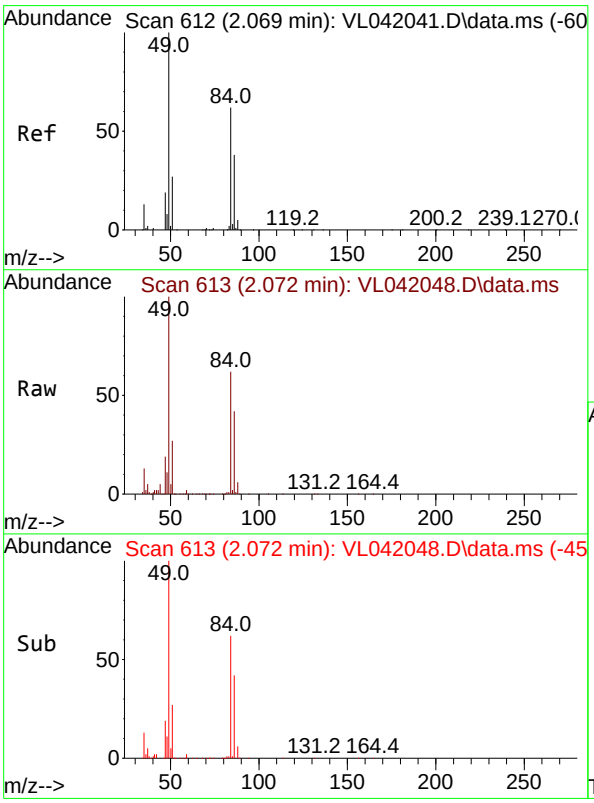
#19
Isopropyl Alcohol
Concen: 8.629 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 45 Resp: 69546

Ion	Ratio	Lower	Upper
45	100		
58	46.7	35.3	52.9

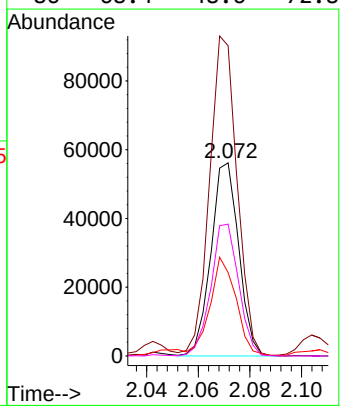


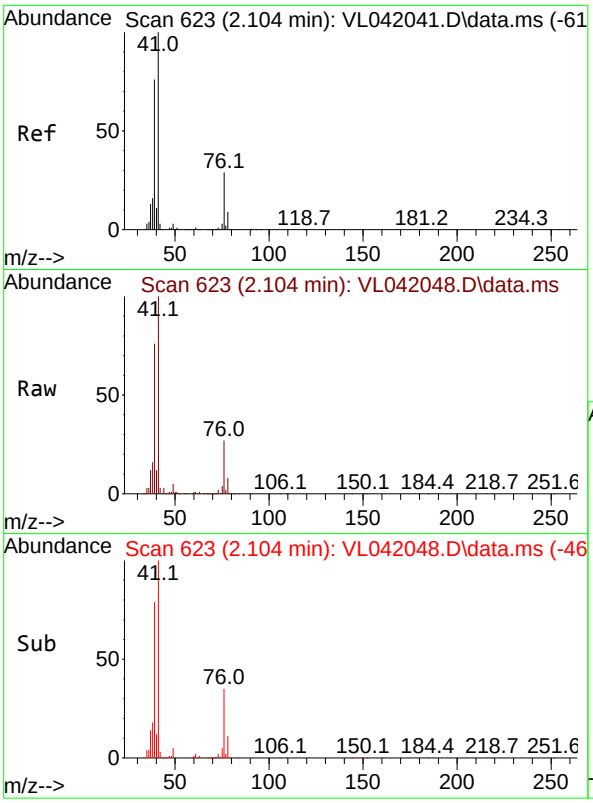


#20
Methylene Chloride
Concen: 7.919 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 84 Resp: 42028

Ion	Ratio	Lower	Upper
84	100		
49	160.5	130.0	195.0
51	43.0	37.4	56.0
86	68.4	48.6	72.8



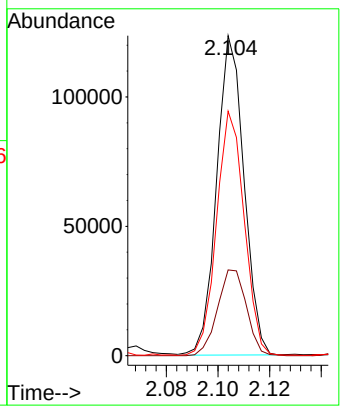


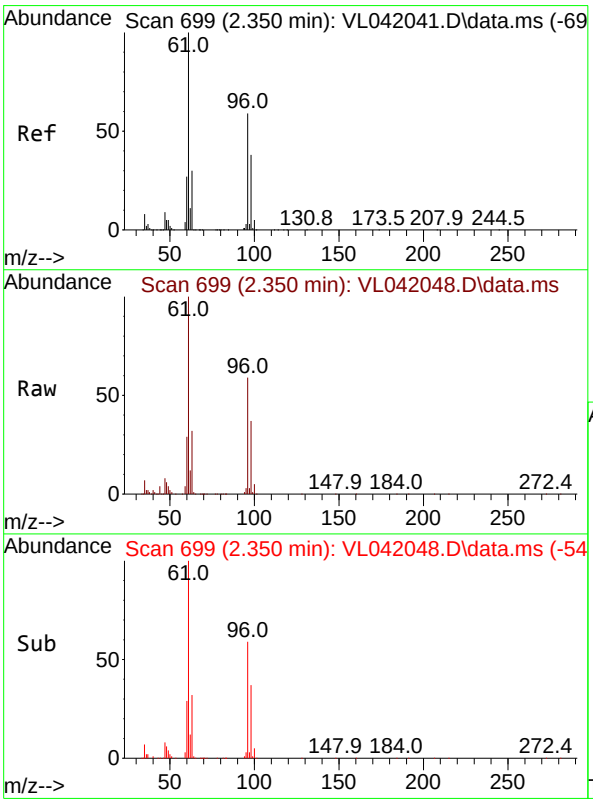
#21
Allyl Chloride
Concen: 8.951 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 41 Resp: 90745

Ion	Ratio	Lower	Upper
41	100		
76	28.5	23.8	35.6
39	77.5	63.8	95.6

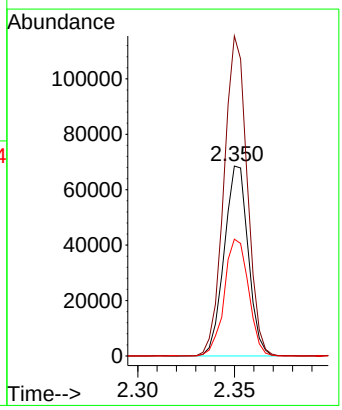


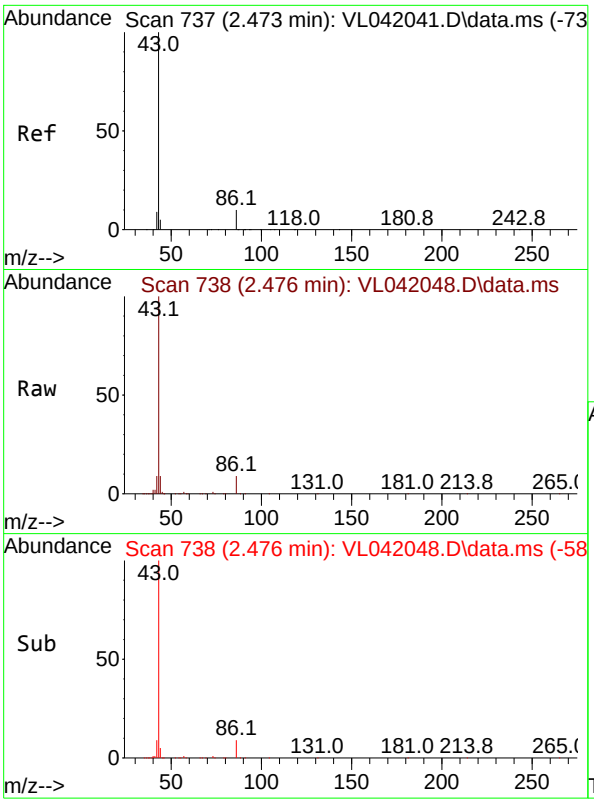


#22
trans-1,2-Dichloroethene
Concen: 8.502 ppbv
RT: 2.350 min Scan# 699
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 96 Resp: 59140

Ion	Ratio	Lower	Upper
96	100		
61	168.4	136.6	205.0
98	61.5	51.8	77.6



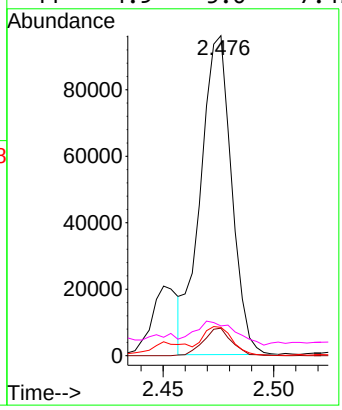


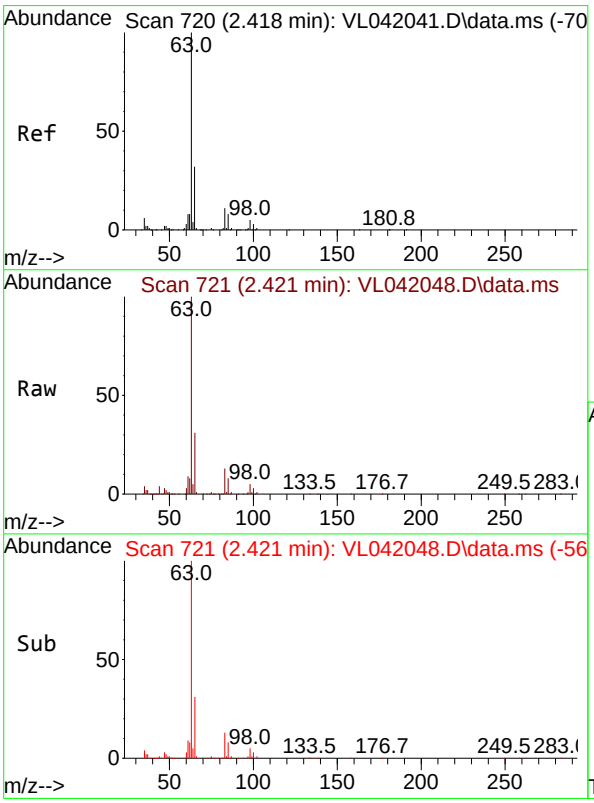
#23
Vinyl Acetate
Concen: 9.488 ppbv
RT: 2.476 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 43 Resp: 93605

Ion	Ratio	Lower	Upper
43	100		
86	8.6	7.0	10.4
42	8.3	7.6	11.4
44	4.9	5.0	7.4#

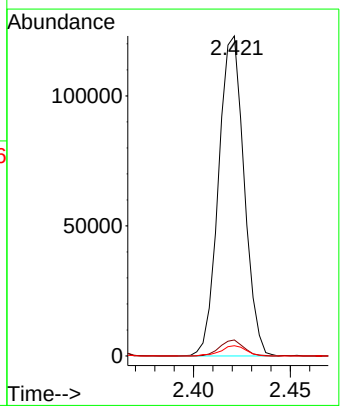


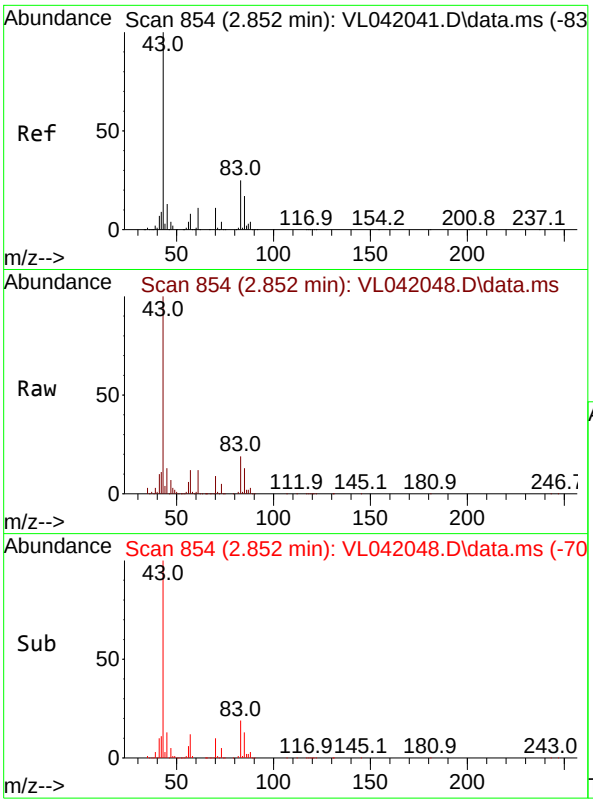


#24
1,1-Dichloroethane
Concen: 8.721 ppbv
RT: 2.421 min Scan# 721
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 63 Resp: 112869

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.4	7.2
100	3.2	1.7	5.0



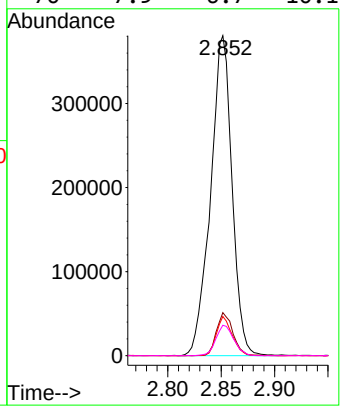


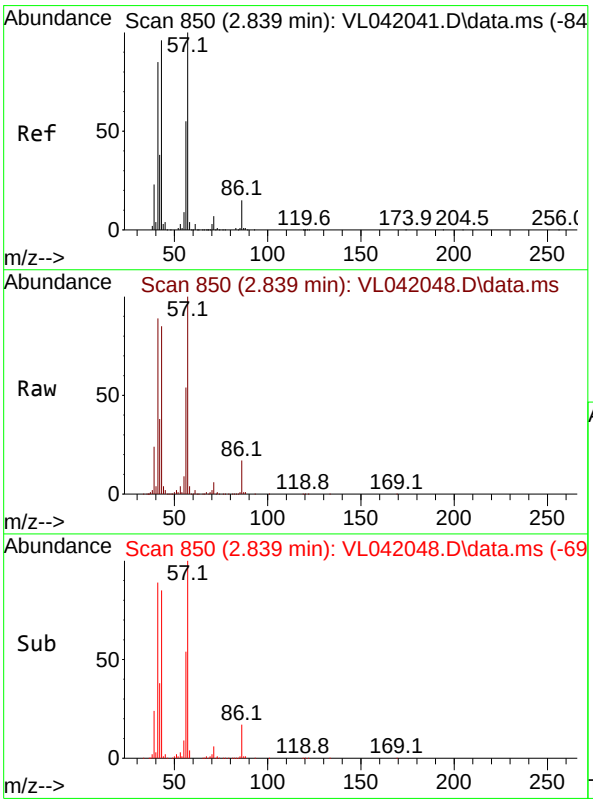
#25
Ethyl Acetate
Concen: 9.492 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 43 Resp: 533113

Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.1	12.1
61	9.0	7.2	10.8
70	7.9	6.7	10.1

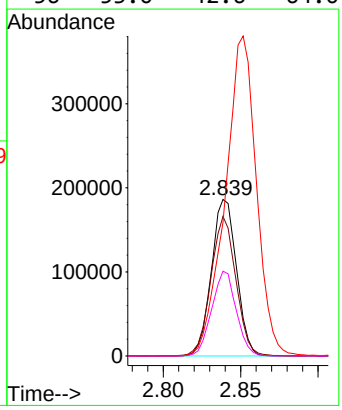


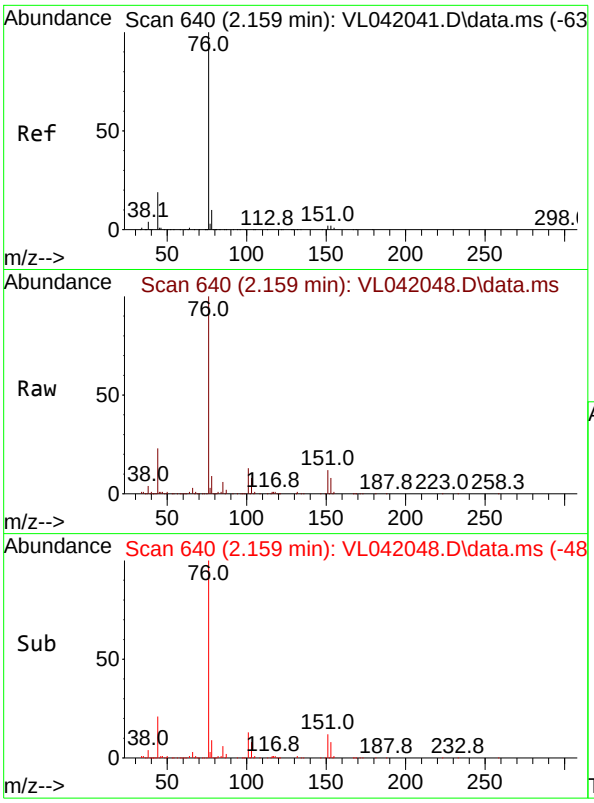


#26
Hexane
Concen: 9.203 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 57 Resp: 208955

Ion	Ratio	Lower	Upper
57	100		
41	89.5	70.6	106.0
43	256.2	199.4	299.0
56	53.0	42.6	64.0



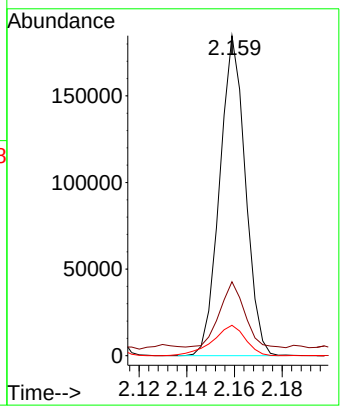


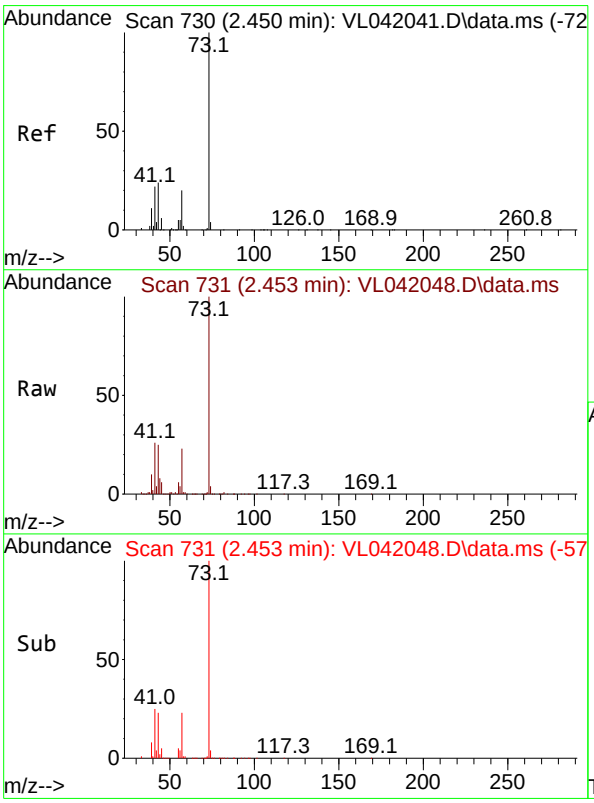
#27
Carbon Disulfide
Concen: 8.978 ppbv
RT: 2.159 min Scan# 64
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 76 Resp: 138176

Ion	Ratio	Lower	Upper
76	100		
44	21.9	16.2	24.2
78	12.1	9.4	14.0

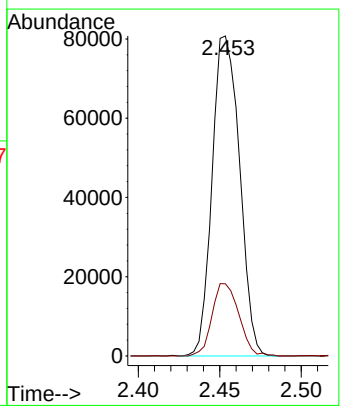


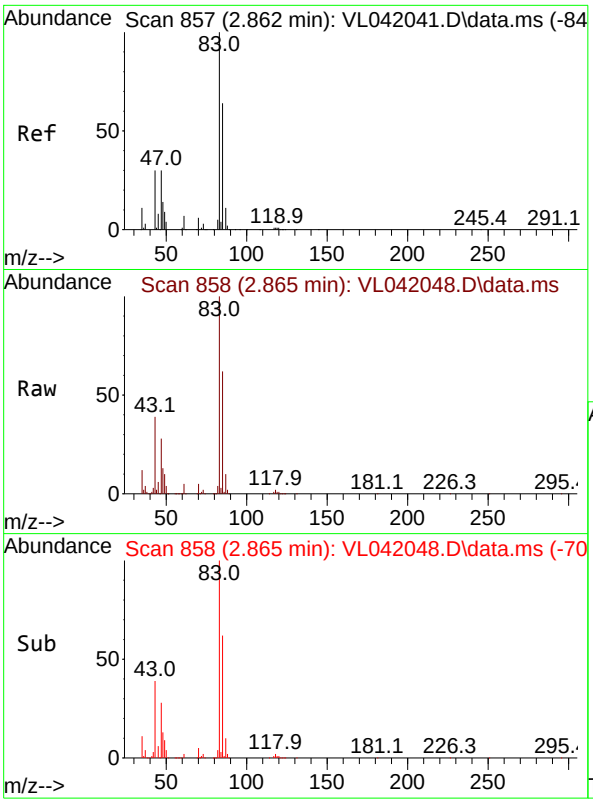


#28
Methyl tert-Butyl Ether
Concen: 8.365 ppbv
RT: 2.453 min Scan# 731
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 73 Resp: 94554

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.7	26.5



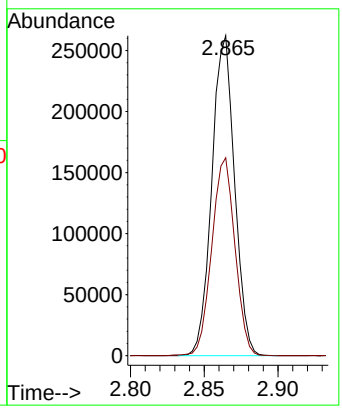


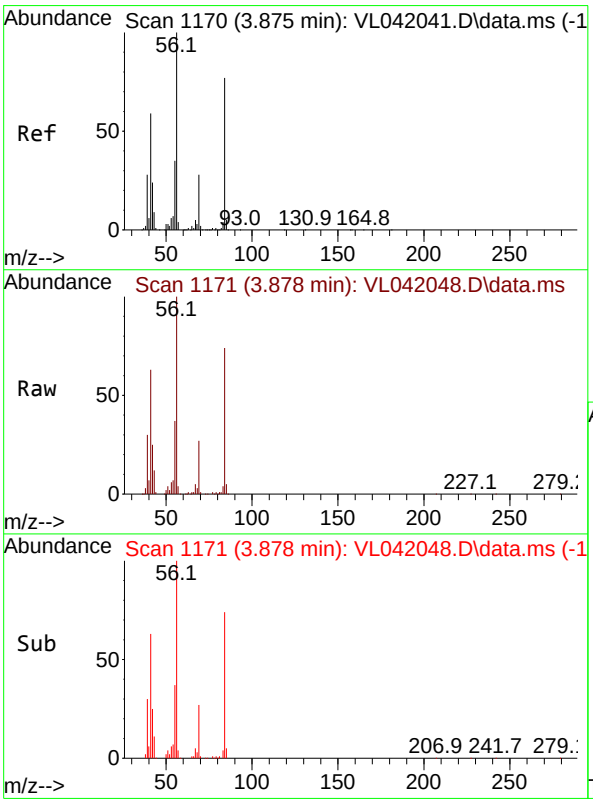
#29
Chloroform
Concen: 9.202 ppbv
RT: 2.865 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 83 Resp: 281191

Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.2	76.8

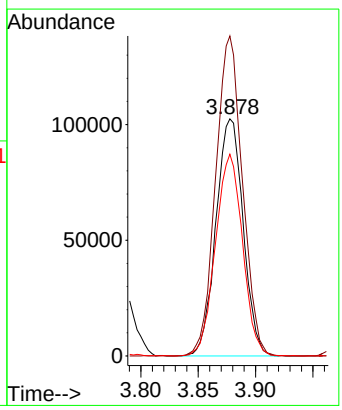


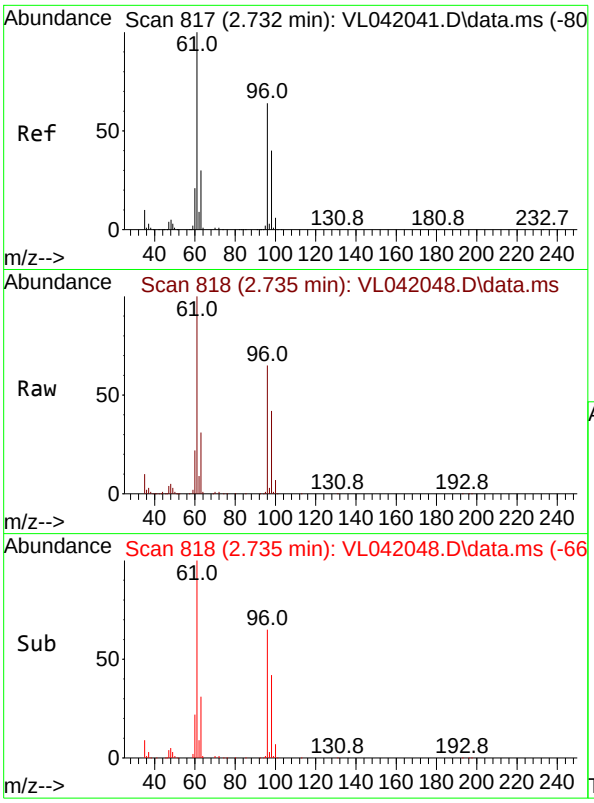


#30
Cyclohexane
Concen: 9.161 ppbv
RT: 3.878 min Scan# 1171
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 84 Resp: 168830

Ion	Ratio	Lower	Upper
84	100		
56	133.0	101.5	152.3
41	84.8	62.6	93.8



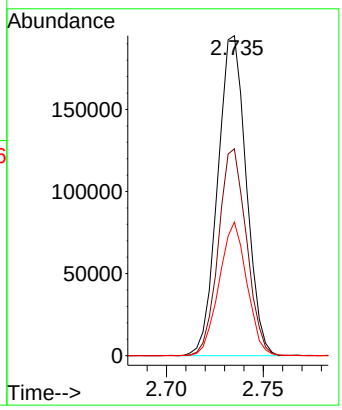


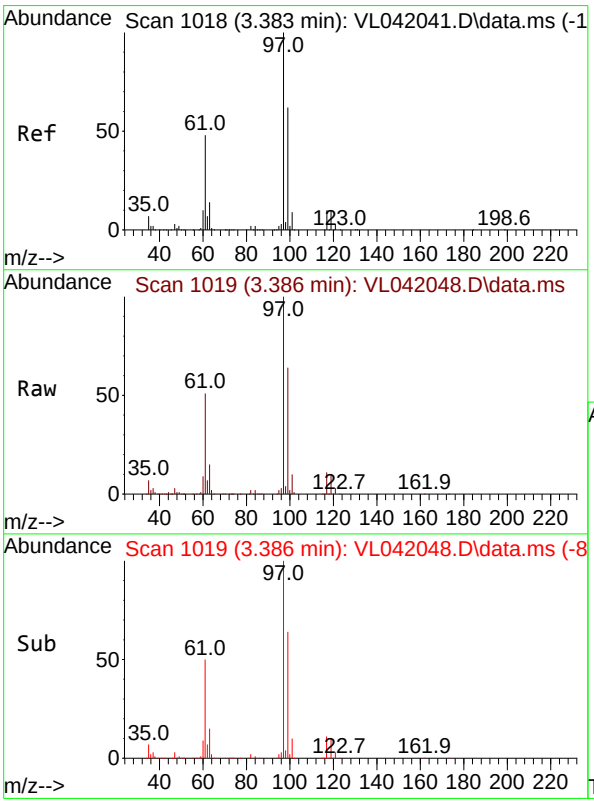
#31
cis-1,2-Dichloroethene
Concen: 9.285 ppbv
RT: 2.735 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 61 Resp: 199564

Ion	Ratio	Lower	Upper
61	100		
96	64.7	51.5	77.3
98	41.8	32.0	48.0

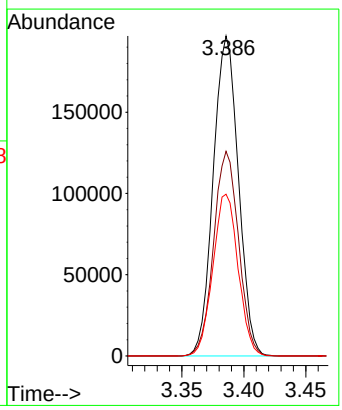


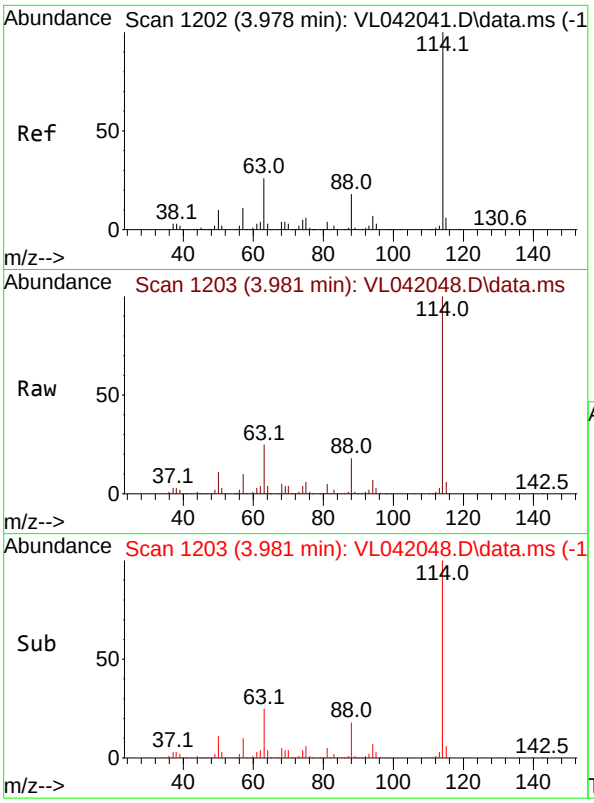


#32
1,1,1-Trichloroethane
Concen: 9.396 ppbv
RT: 3.386 min Scan# 1019
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 97 Resp: 278512

Ion	Ratio	Lower	Upper
97	100		
99	63.6	49.8	74.6
61	50.8	38.9	58.3



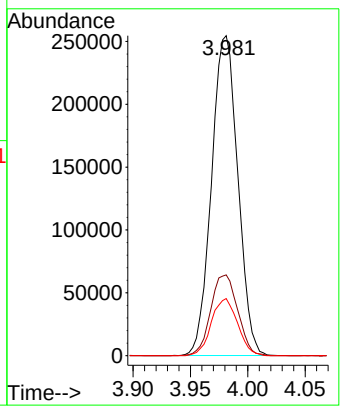


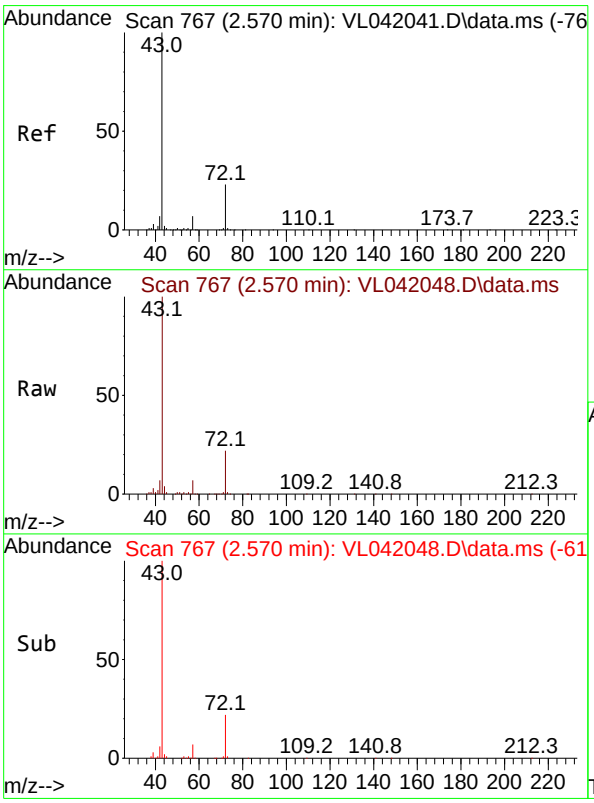
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:114 Resp: 406520

Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.1	30.1
88	17.8	14.3	21.5

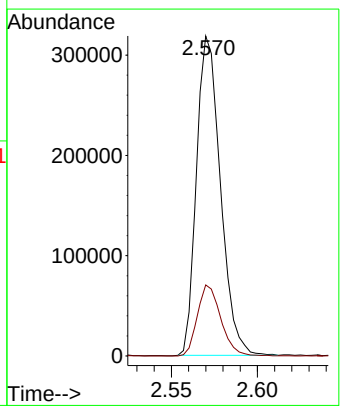


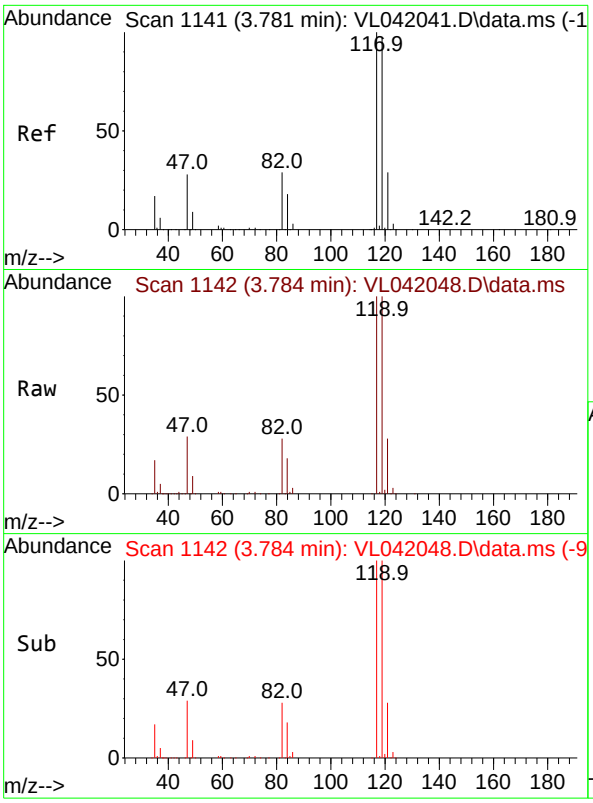


#34
2-Butanone
Concen: 9.727 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 43 Resp: 308064

Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.5	27.7



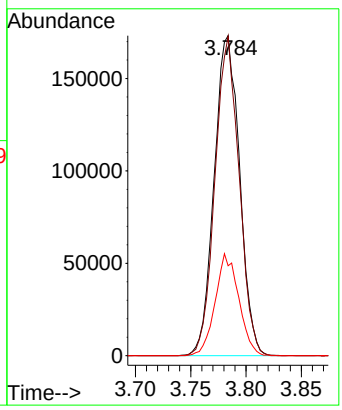


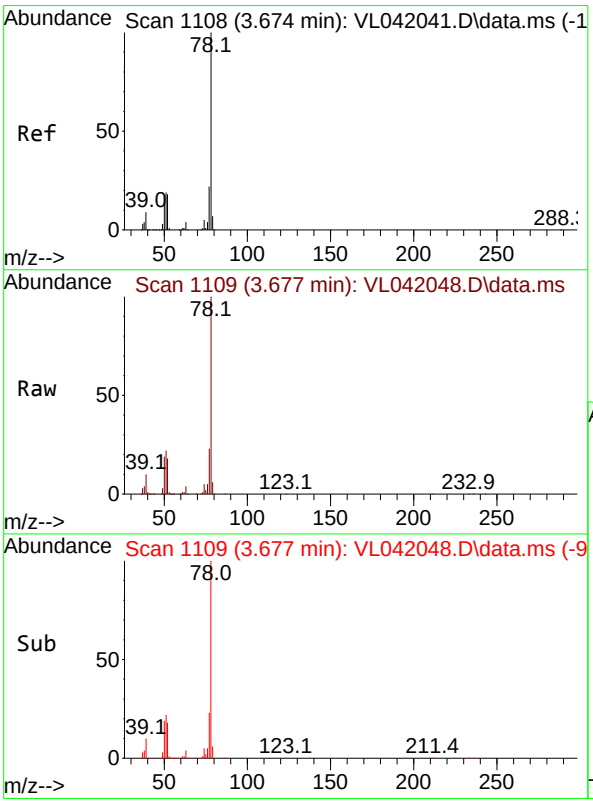
#35
Carbon Tetrachloride
Concen: 9.867 ppbv
RT: 3.784 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:117 Resp: 276599

Ion	Ratio	Lower	Upper
117	100		
119	99.7	77.8	116.8
121	28.1	23.4	35.0

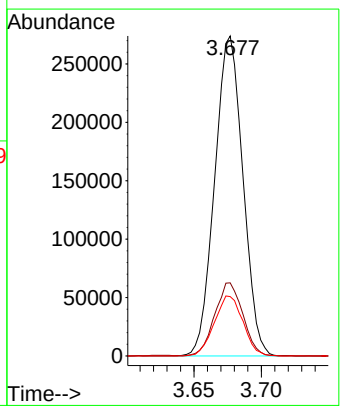


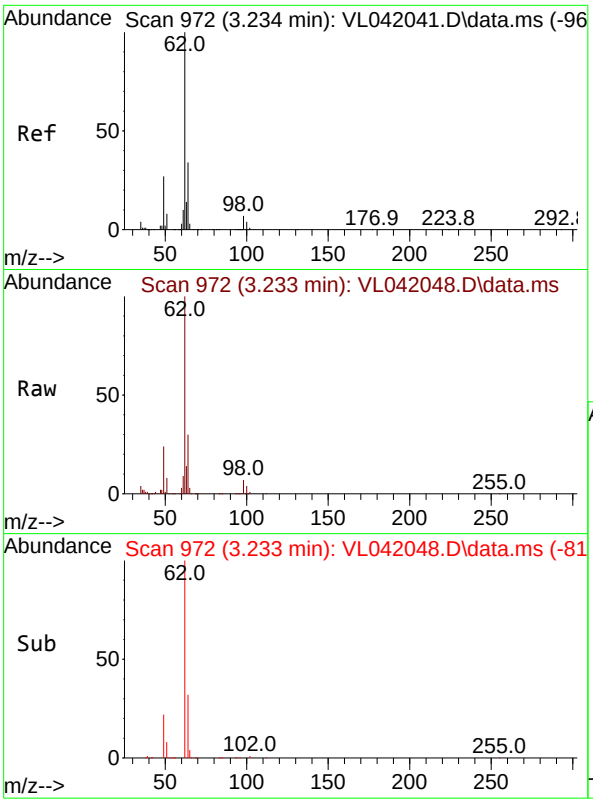


#36
Benzene
Concen: 9.395 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 78 Resp: 399804

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.7	26.5
50	18.6	13.9	20.9



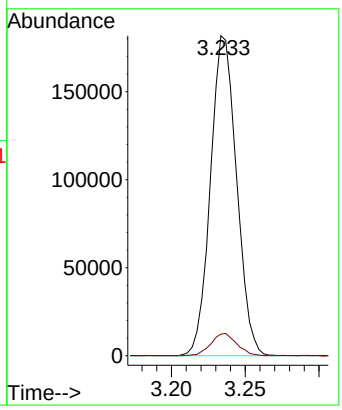


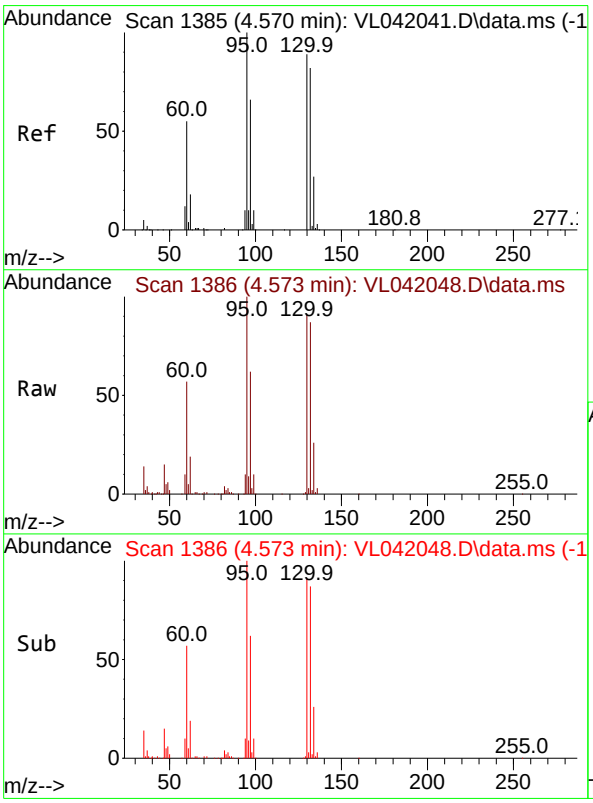
#37
1,2-Dichloroethane
Concen: 9.491 ppbv
RT: 3.233 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 62 Resp: 223946

Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.7	8.5

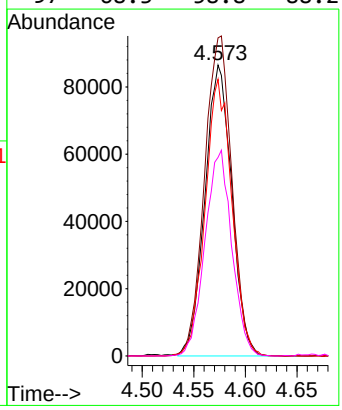


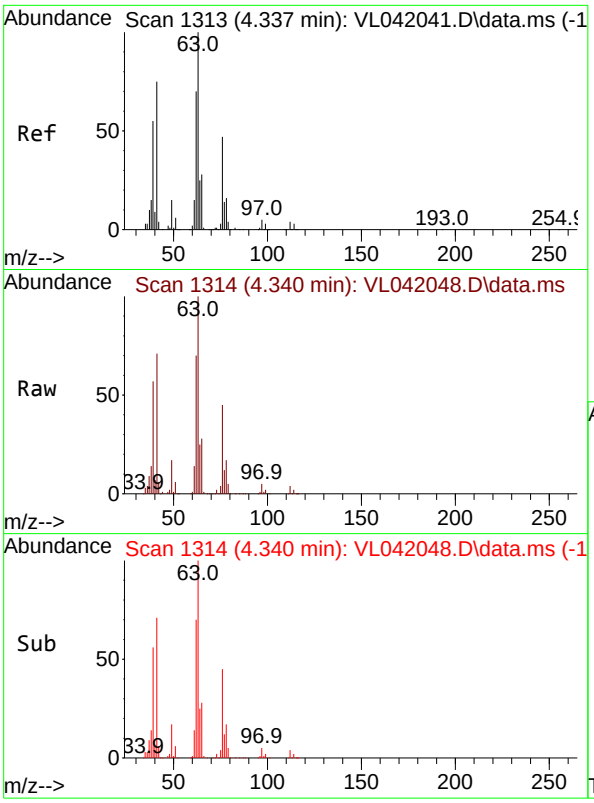


#38
Trichloroethene
Concen: 9.005 ppbv
RT: 4.573 min Scan# 1386
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:130 Resp: 156488

Ion	Ratio	Lower	Upper
130	100		
95	109.3	89.5	134.3
132	95.1	73.8	110.6
97	68.3	58.8	88.2



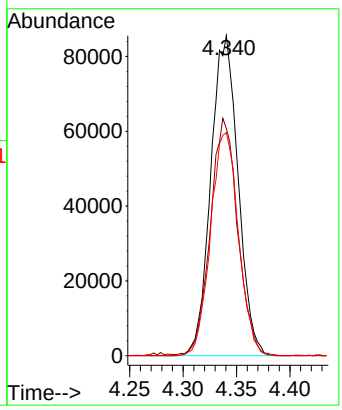


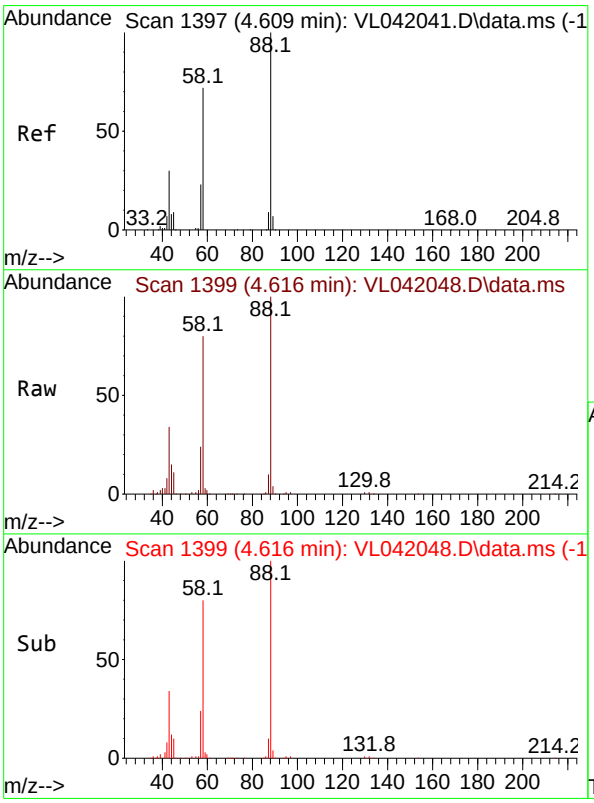
#39
1,2-Dichloropropane
Concen: 9.414 ppbv
RT: 4.340 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 63 Resp: 152063

Ion	Ratio	Lower	Upper
63	100		
41	70.8	60.1	90.1
62	69.7	55.8	83.8

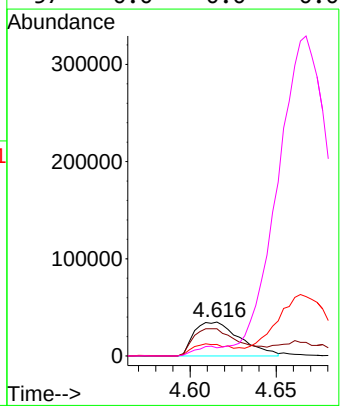


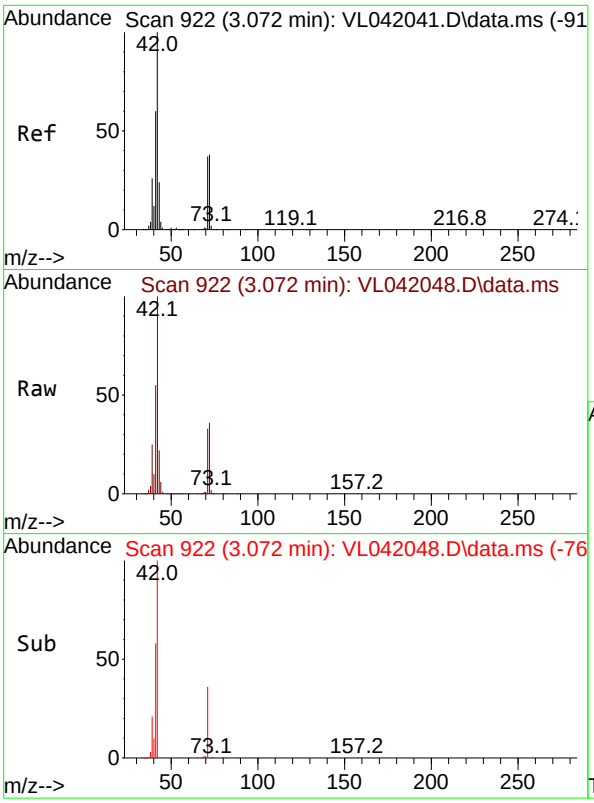


#40
1,4-Dioxane
Concen: 8.817 ppbv
RT: 4.616 min Scan# 1399
Delta R.T. 0.006 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 88 Resp: 65010

Ion	Ratio	Lower	Upper
88	100		
58	76.5	62.6	94.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0



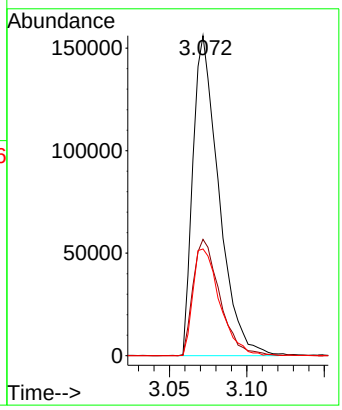


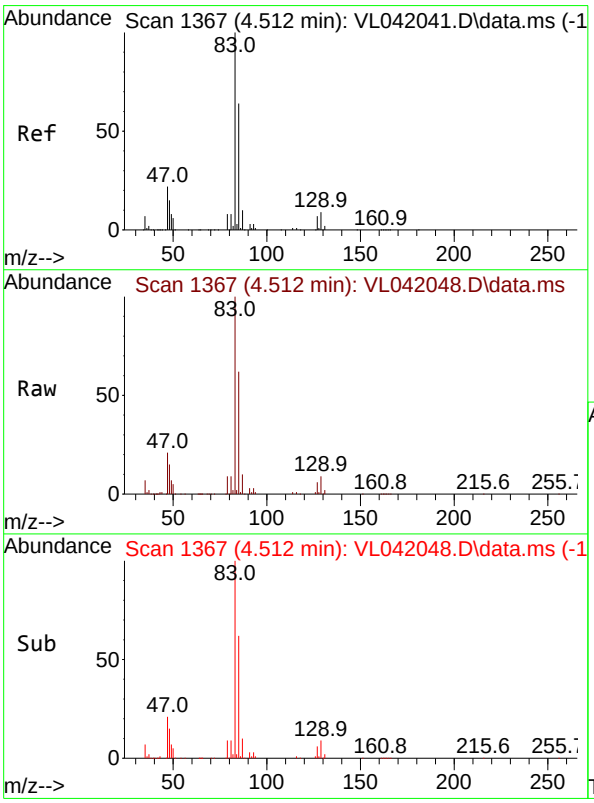
#41
Tetrahydrofuran
Concen: 9.696 ppbv
RT: 3.072 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 42 Resp: 181453

Ion	Ratio	Lower	Upper
42	100		
72	37.6	30.2	45.2
71	34.8	28.2	42.4

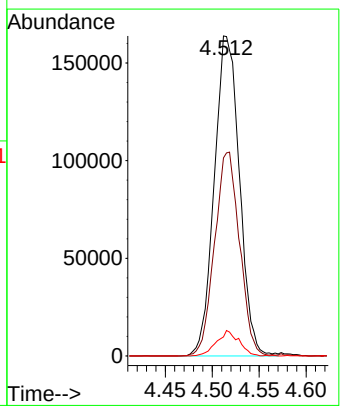


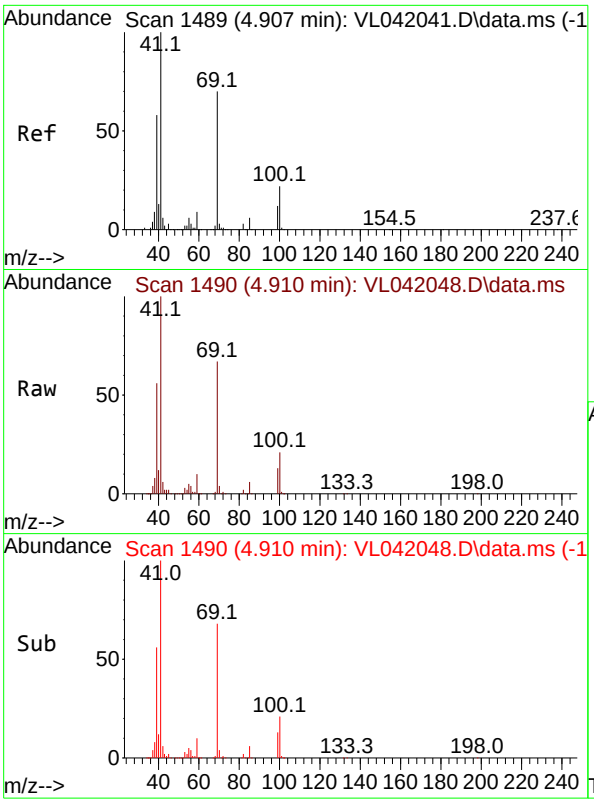


#42
Bromodichloromethane
Concen: 9.606 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 83 Resp: 305385

Ion	Ratio	Lower	Upper
83	100		
85	61.9	51.4	77.2
127	5.9	5.8	8.6



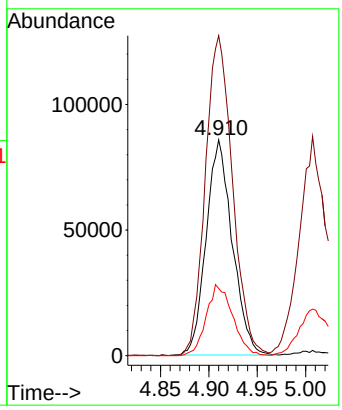


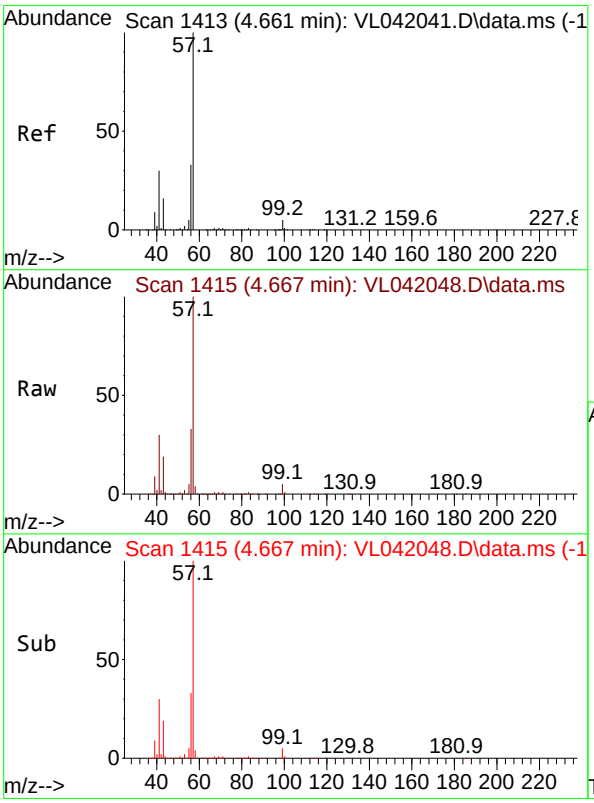
#43
Methyl Methacrylate
Concen: 9.685 ppbv
RT: 4.910 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 69 Resp: 160954

Ion	Ratio	Lower	Upper
69	100		
41	154.7	118.2	177.4
100	33.4	27.0	40.4

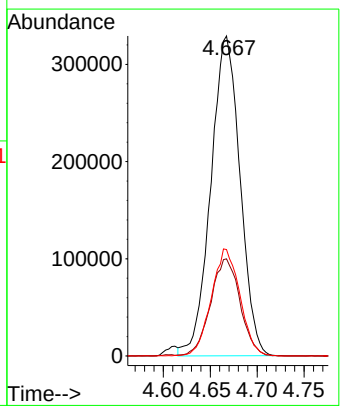


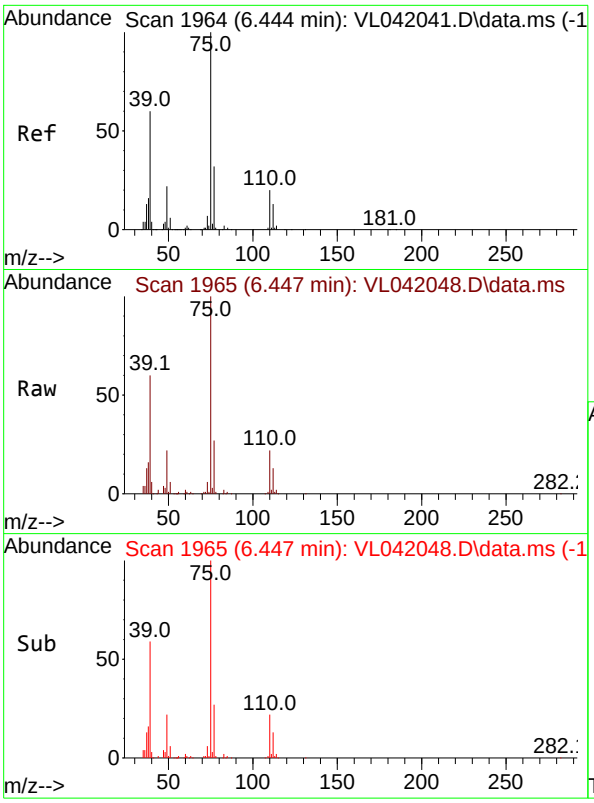


#44
2,2,4-Trimethylpentane
Concen: 9.480 ppbv
RT: 4.667 min Scan# 1415
Delta R.T. 0.006 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 57 Resp: 712051

Ion	Ratio	Lower	Upper
57	100		
41	31.0	24.4	36.6
56	32.7	26.5	39.7



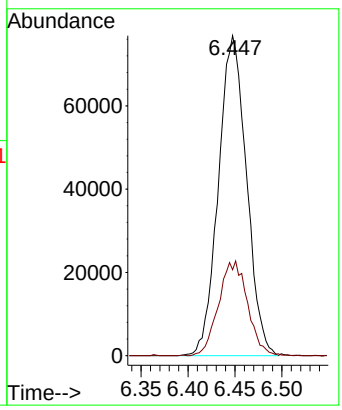


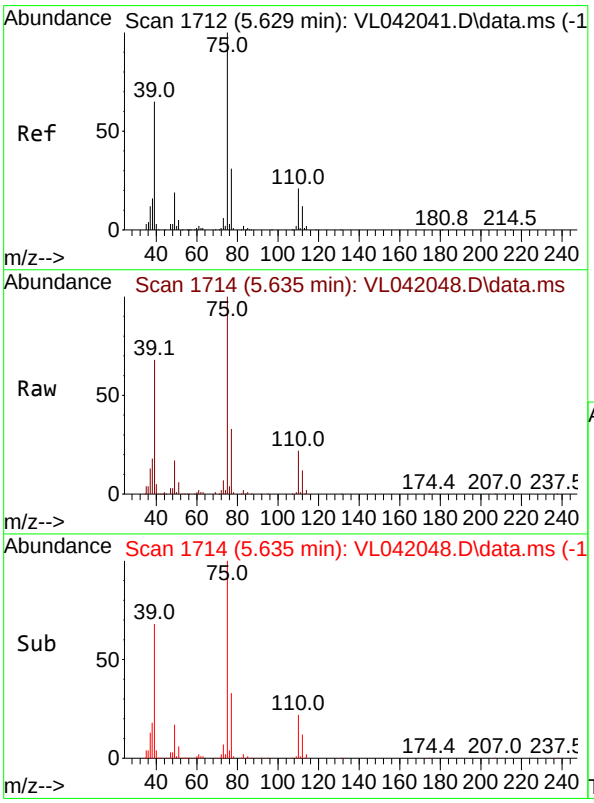
#45
t-1,3-Dichloropropene
Concen: 9.671 ppbv
RT: 6.447 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 75 Resp: 159680

Ion	Ratio	Lower	Upper
75	100		
77	26.8	25.9	38.9

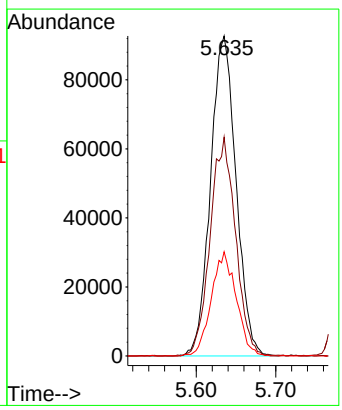


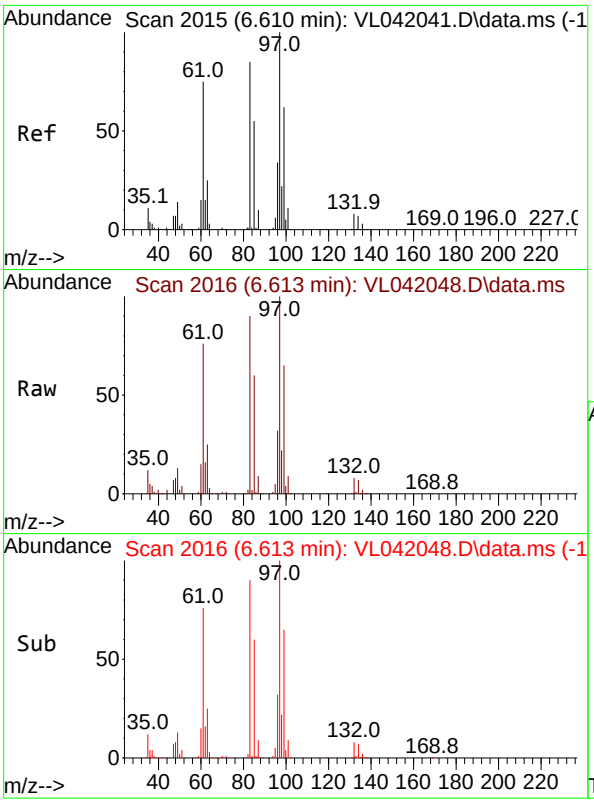


#46
cis-1,3-Dichloropropene
Concen: 9.680 ppbv
RT: 5.635 min Scan# 1714
Delta R.T. 0.006 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 75 Resp: 206836

Ion	Ratio	Lower	Upper
75	100		
39	68.1	51.9	77.9
77	32.6	24.9	37.3



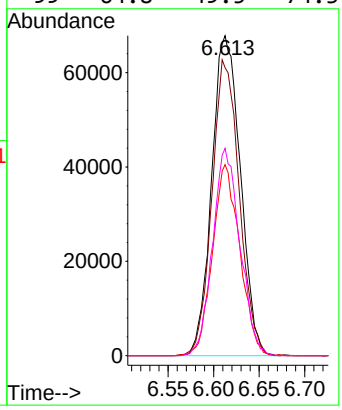


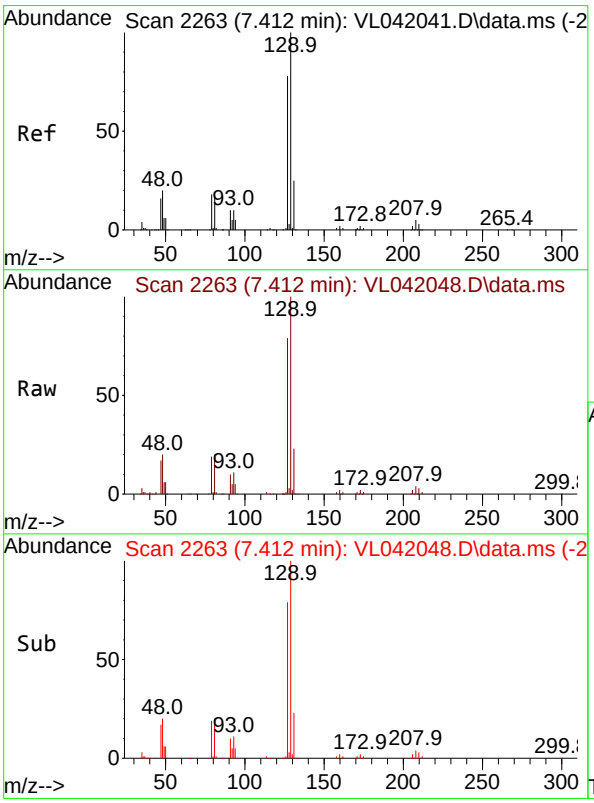
#47
1,1,2-Trichloroethane
Concen: 9.039 ppbv
RT: 6.613 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 97 Resp: 148220

Ion	Ratio	Lower	Upper
97	100		
83	89.8	68.1	102.1
85	59.5	44.0	66.0
99	64.8	49.5	74.3

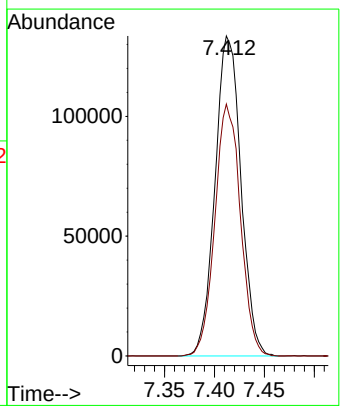


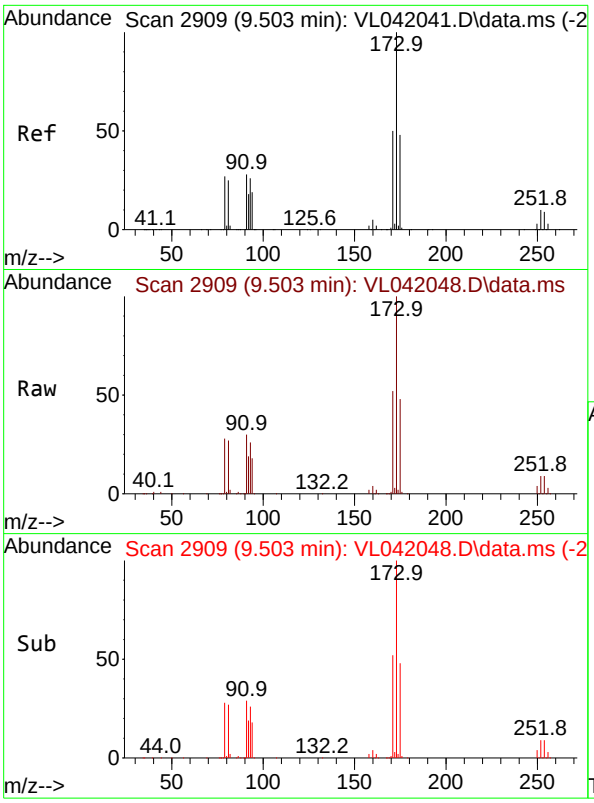


#48
Dibromochloromethane
Concen: 9.407 ppbv
RT: 7.412 min Scan# 2263
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:129 Resp: 241593

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.6	115.8



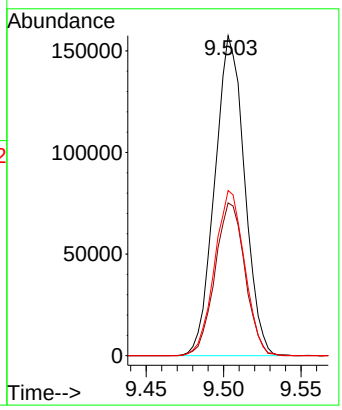


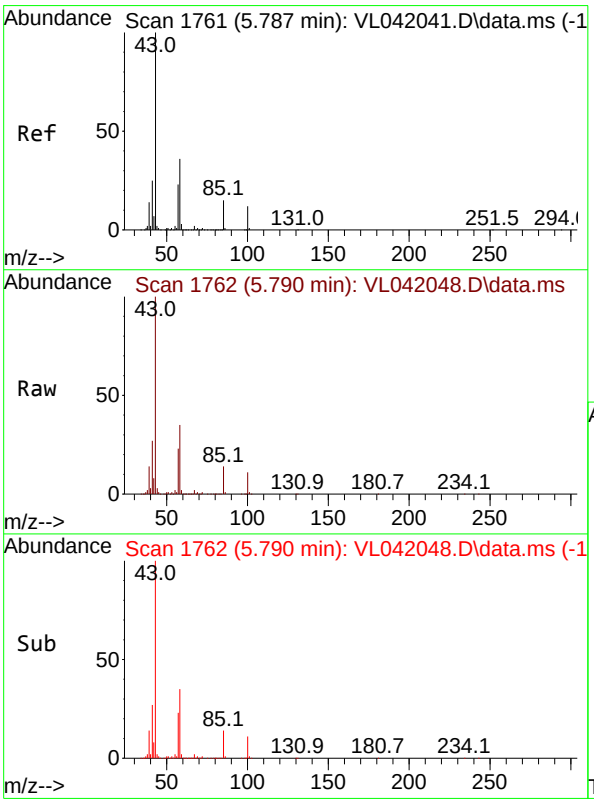
#49
Bromoform
Concen: 9.432 ppbv
RT: 9.503 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:173 Resp: 210370

Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.3	57.5
171	52.0	40.2	60.2

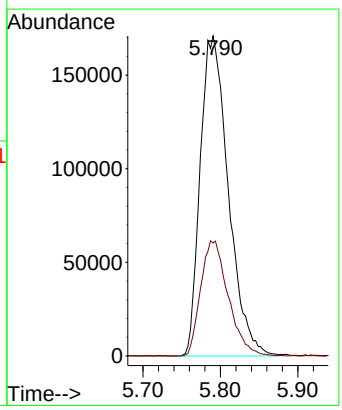


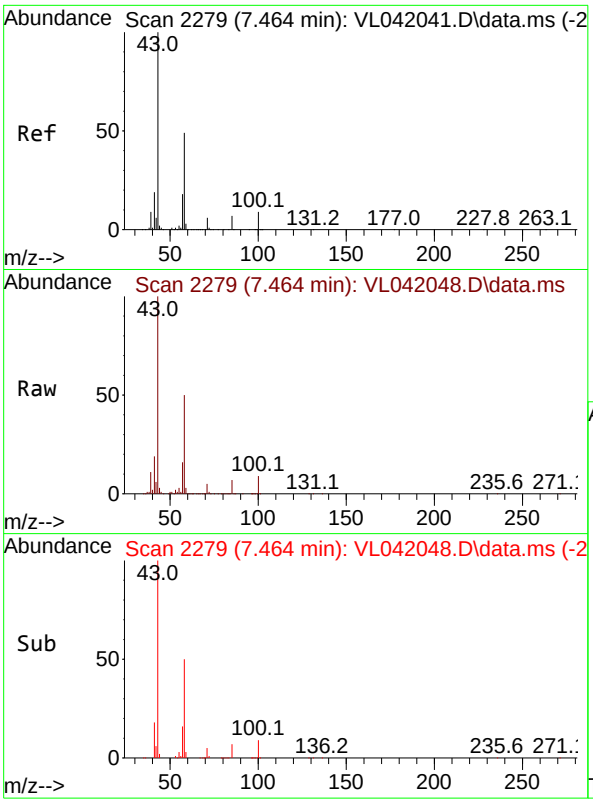


#50
4-Methyl-2-Pentanone
Concen: 10.526 ppbv
RT: 5.790 min Scan# 1762
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 43 Resp: 431123

Ion	Ratio	Lower	Upper
43	100		
58	35.4	29.3	43.9



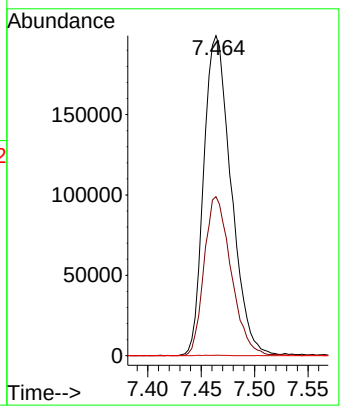


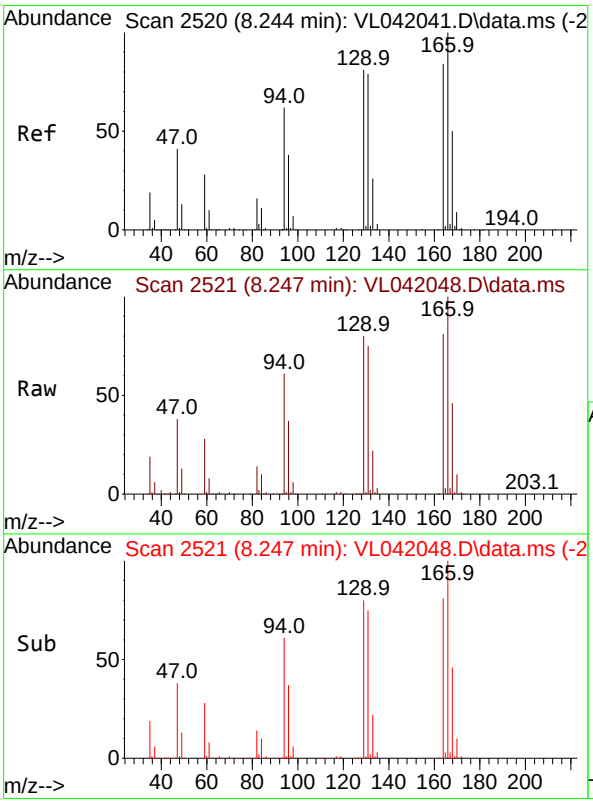
#51
2-Hexanone
Concen: 12.576 ppbv
RT: 7.464 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 43 Resp: 354515

Ion	Ratio	Lower	Upper
43	100		
58	49.1	39.0	58.6
98	0.1	0.1	0.1#

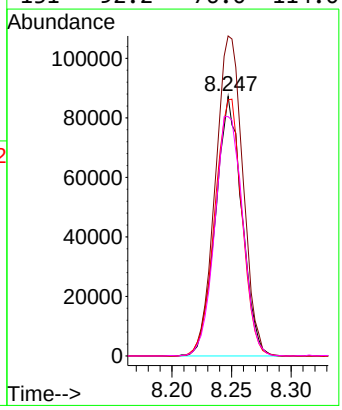


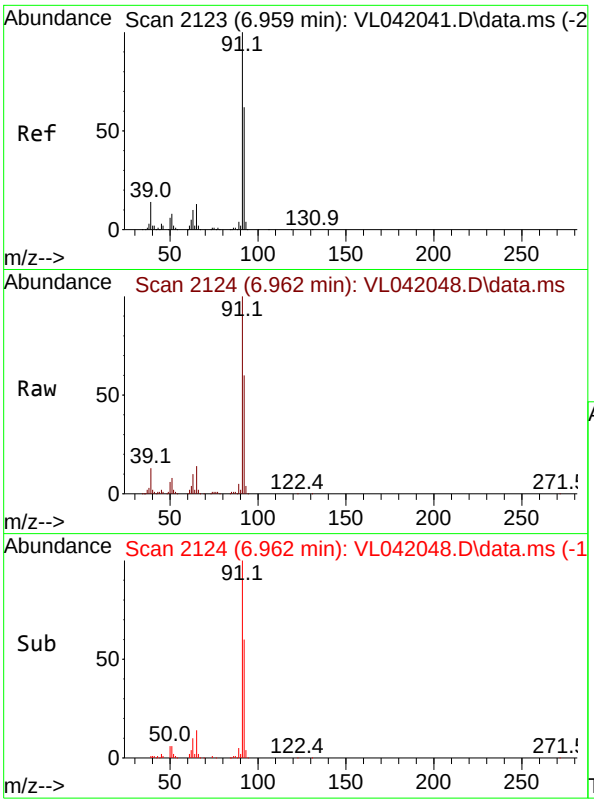


#52
Tetrachloroethene
Concen: 9.202 ppbv
RT: 8.247 min Scan# 2521
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:164 Resp: 134062

Ion	Ratio	Lower	Upper
164	100		
166	123.3	95.7	143.5
129	98.7	77.1	115.7
131	92.2	76.0	114.0



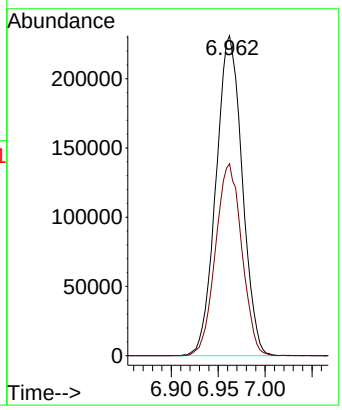


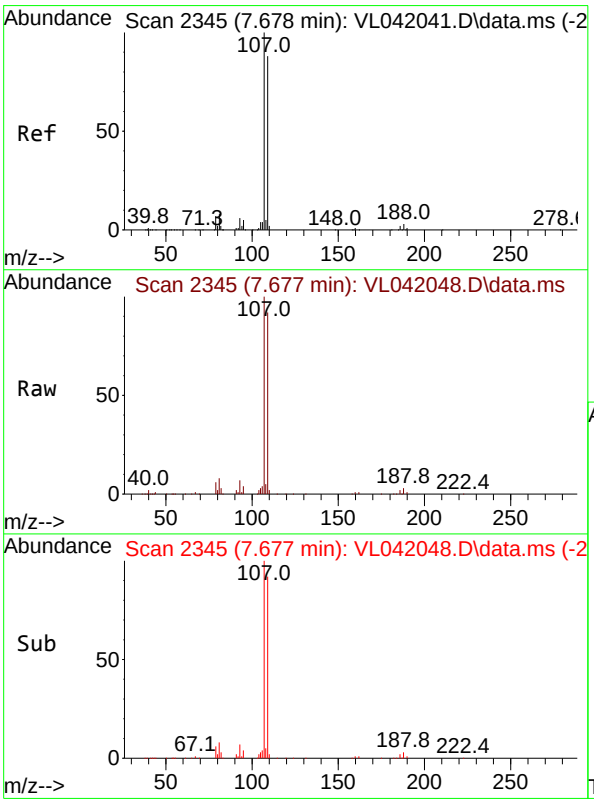
#53
Toluene
Concen: 9.430 ppbv
RT: 6.962 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 91 Resp: 448495

Ion	Ratio	Lower	Upper
91	100		
92	60.1	49.0	73.6

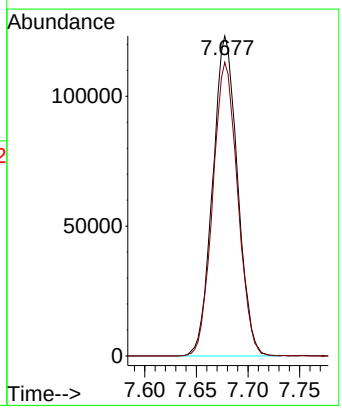


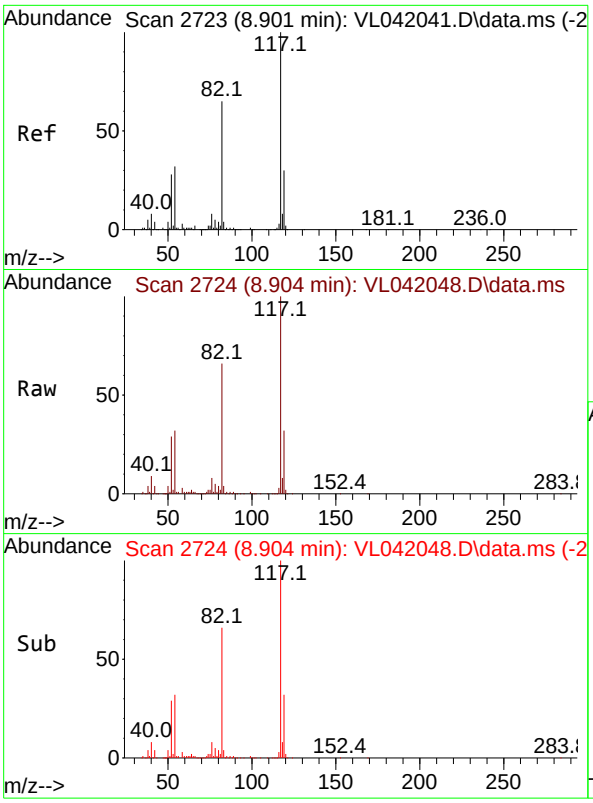


#54
1,2-Dibromoethane
Concen: 9.307 ppbv
RT: 7.677 min Scan# 2345
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:107 Resp: 206335

Ion	Ratio	Lower	Upper
107	100		
109	91.7	70.2	105.4



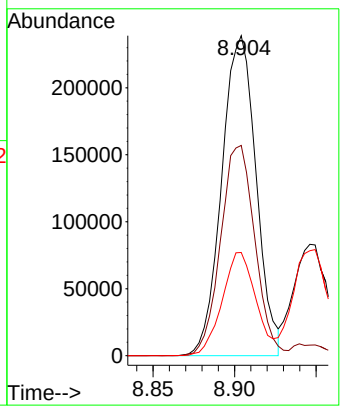


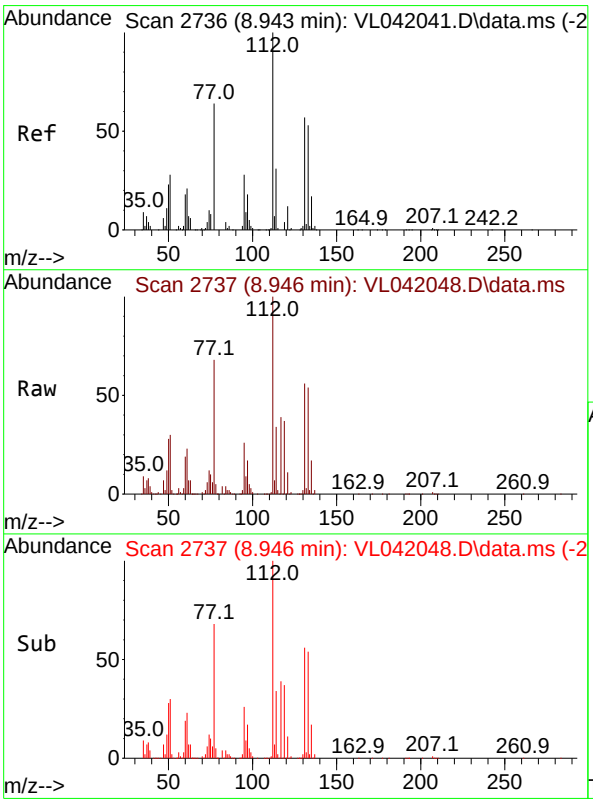
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:117 Resp: 350262

Ion	Ratio	Lower	Upper
117	100		
82	68.9	55.0	82.6
119	31.5	25.9	38.9

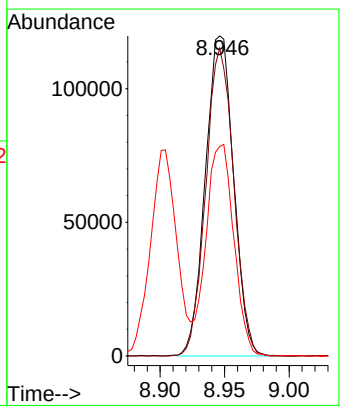


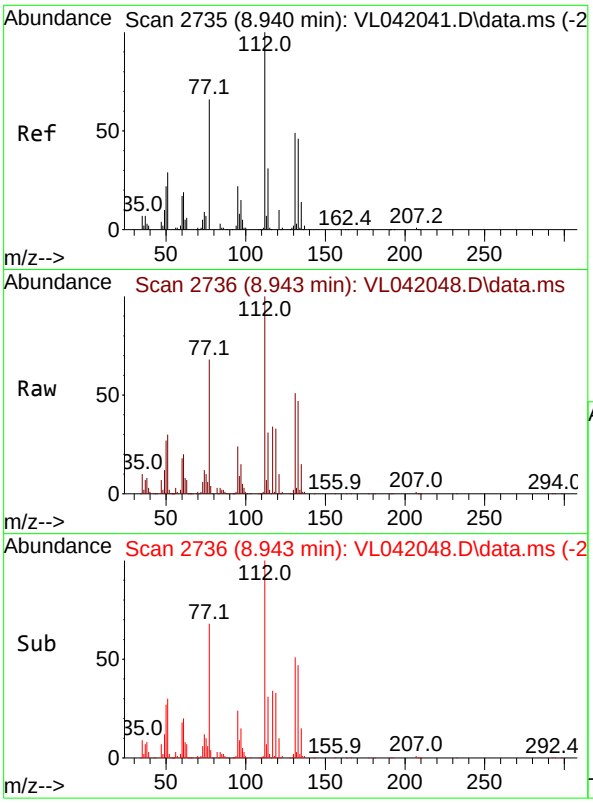


#56
1,1,1,2-Tetrachloroethane
Concen: 9.234 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:131 Resp: 182800

Ion	Ratio	Lower	Upper
131	100		
133	95.0	75.8	113.8
119	66.4	52.1	78.1



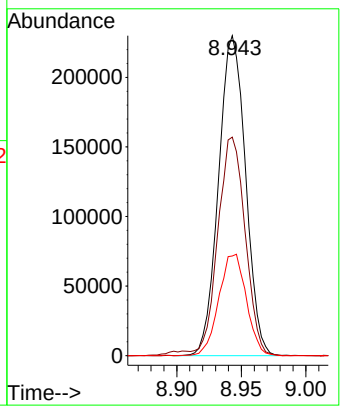


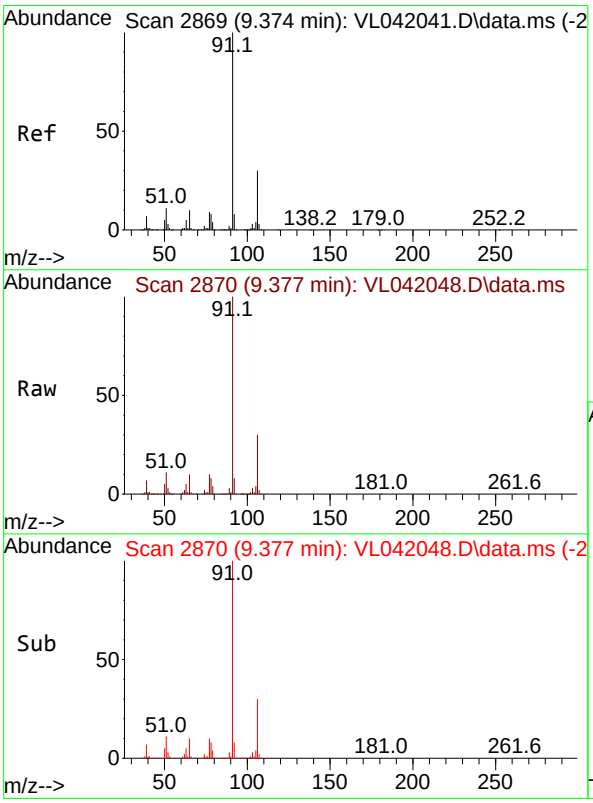
#57
Chlorobenzene
Concen: 9.216 ppbv
RT: 8.943 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:112 Resp: 334696

Ion	Ratio	Lower	Upper
112	100		
77	68.0	53.4	80.2
114	31.1	28.3	34.5

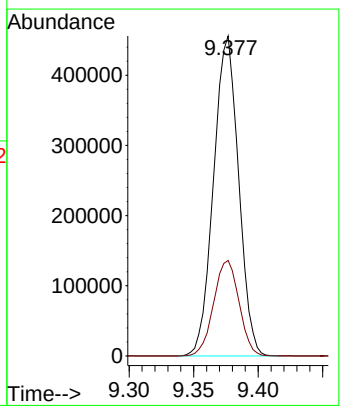


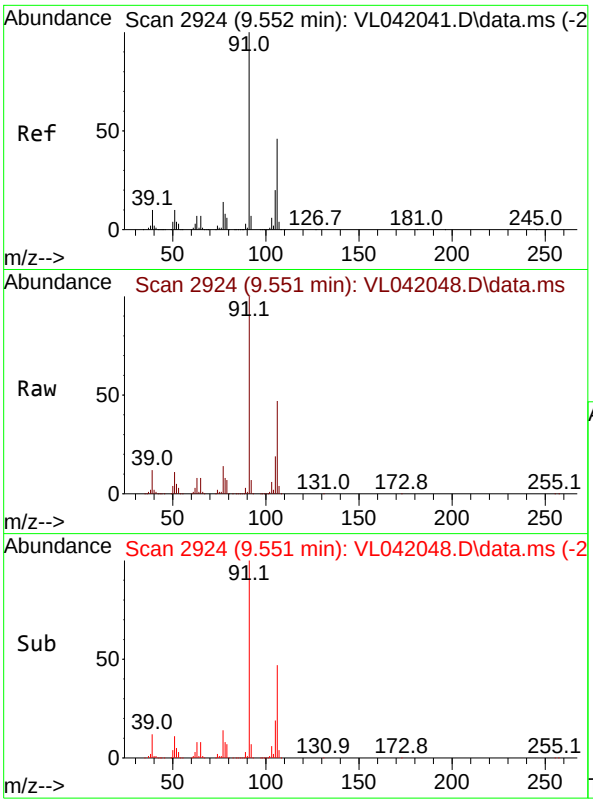


#58
Ethyl Benzene
Concen: 9.513 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 613622

Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.2	36.2



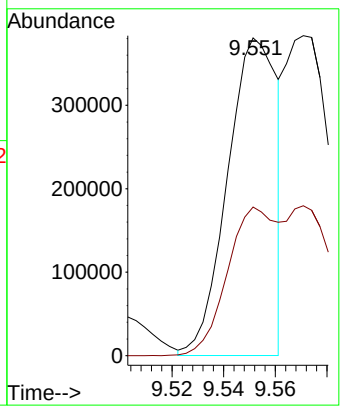


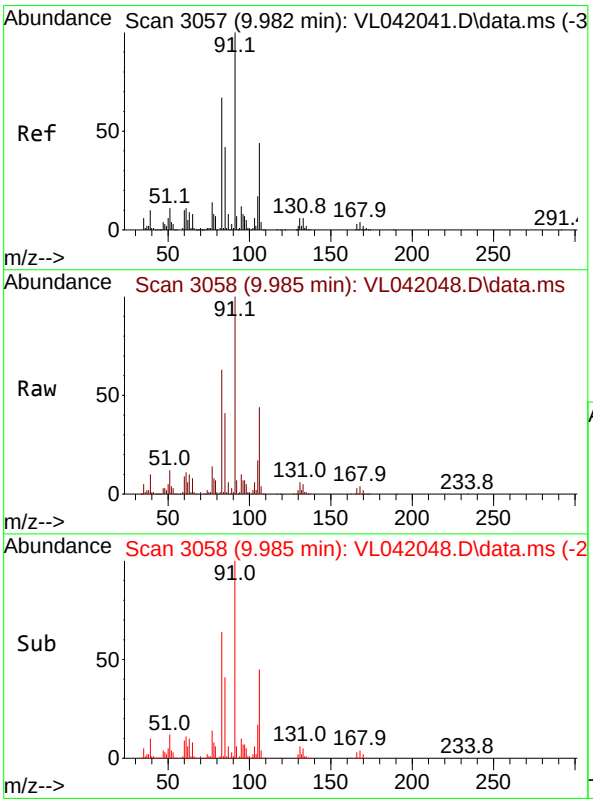
#59
m/p-Xylene
Concen: 9.840 ppbv
RT: 9.551 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 91 Resp: 505100

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

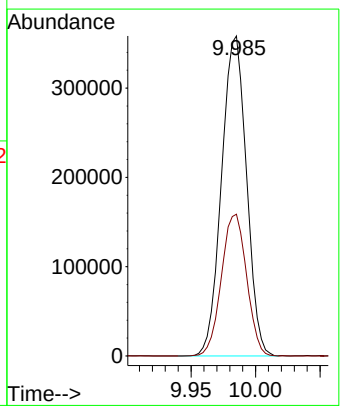


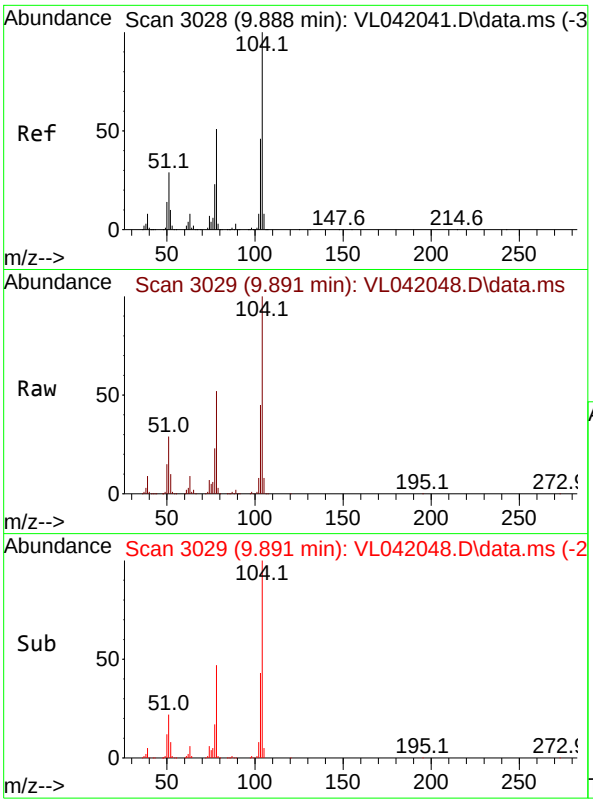


#60
o-Xylene
Concen: 9.334 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 481683

Ion	Ratio	Lower	Upper
91	100		
106	44.7	22.3	66.8



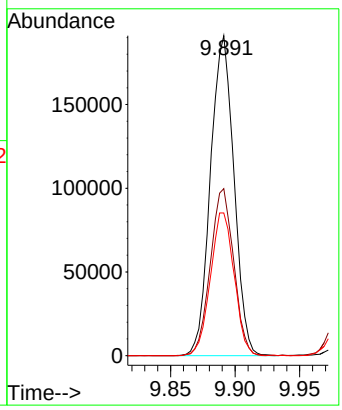


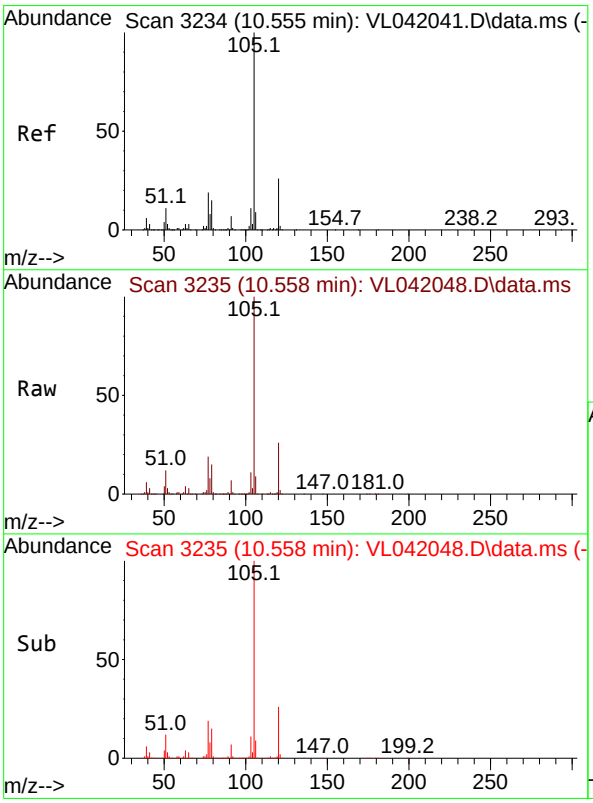
#61
Styrene
Concen: 9.959 ppbv
RT: 9.891 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:104 Resp: 241617

Ion	Ratio	Lower	Upper
104	100		
78	51.9	41.0	61.4
103	45.3	37.0	55.6

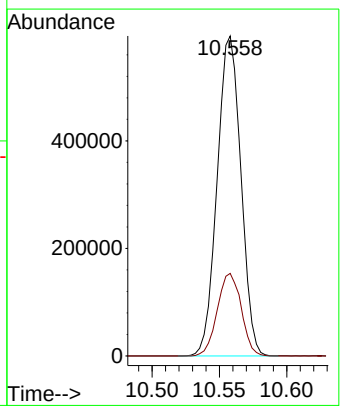


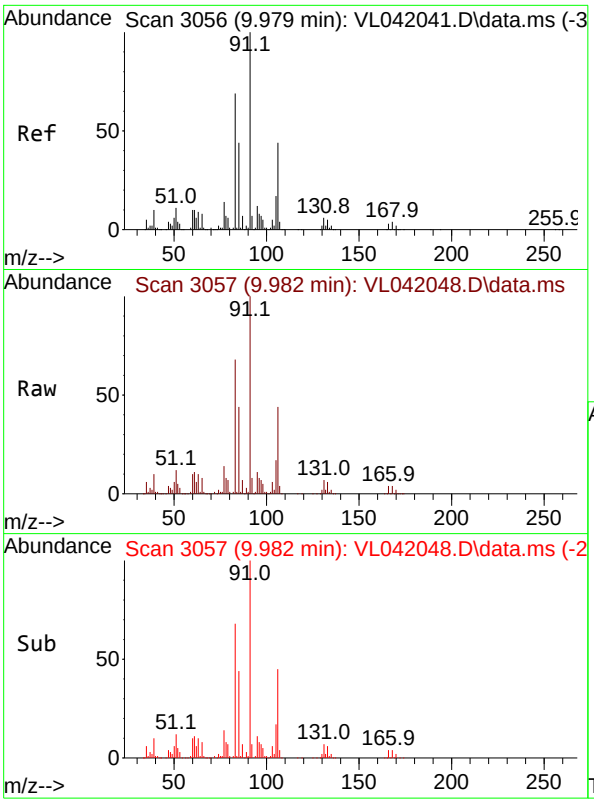


#62
Isopropylbenzene
Concen: 9.437 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:105 Resp: 729350

Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.7	31.1



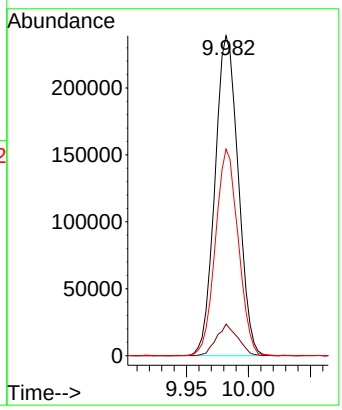


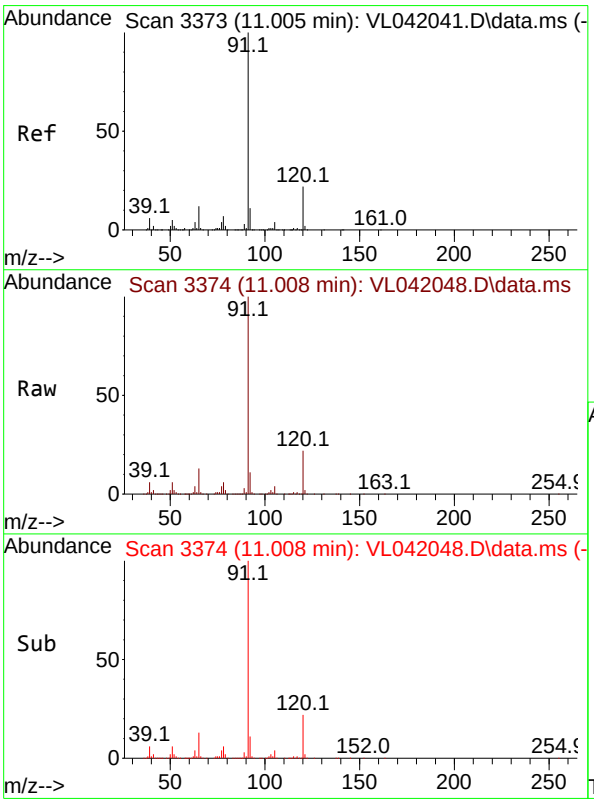
#63
1,1,2,2-Tetrachloroethane
Concen: 9.204 ppbv
RT: 9.982 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 83 Resp: 312794

Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.7
85	63.5	32.1	96.3

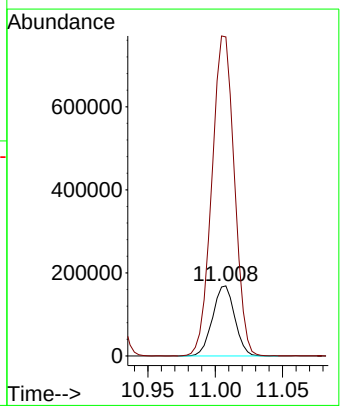


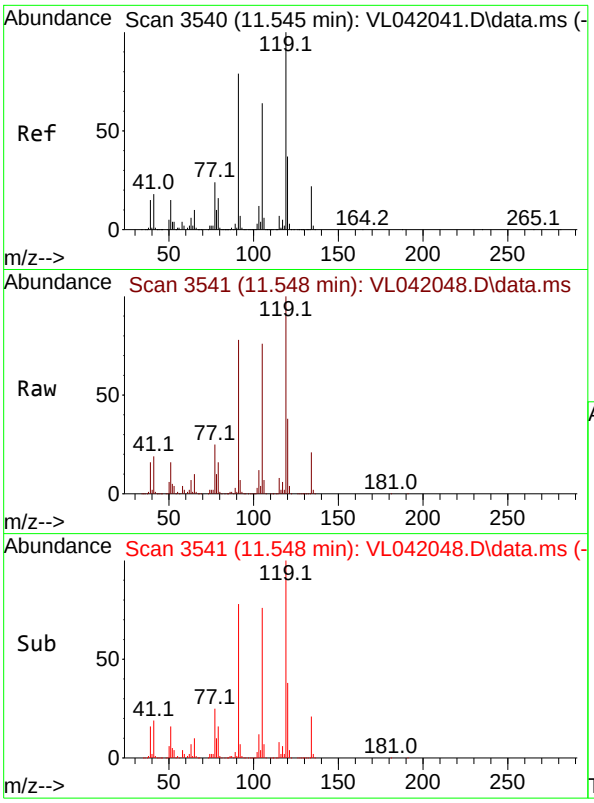


#64
n-propylbenzene
Concen: 9.506 ppbv
RT: 11.008 min Scan# 3374
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:120 Resp: 192704

Ion	Ratio	Lower	Upper
120	100		
91	466.1	370.6	556.0



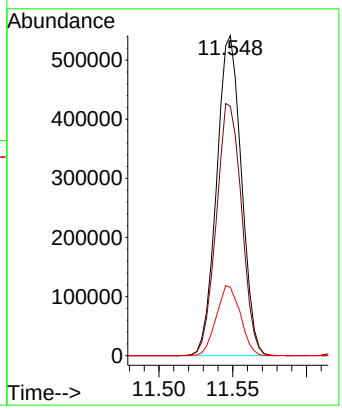


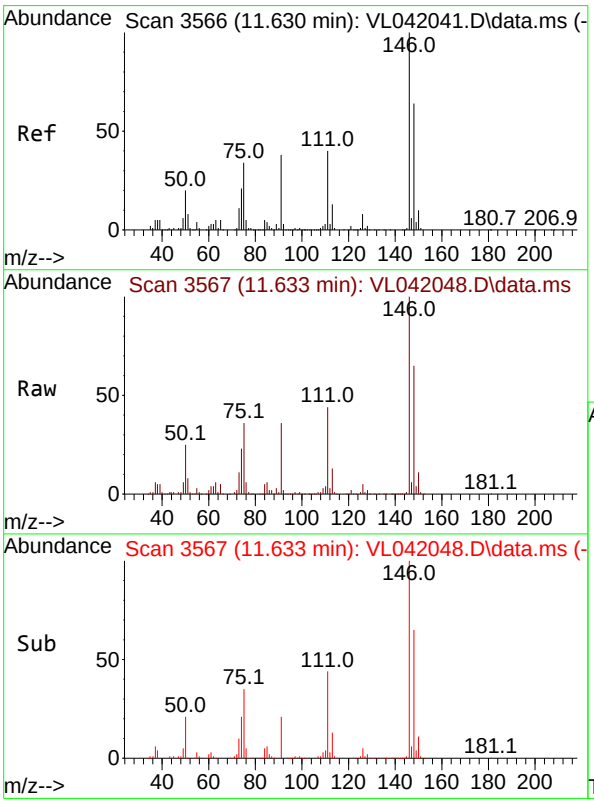
#65
tert-Butylbenzene
Concen: 8.988 ppbv
RT: 11.548 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:119 Resp: 632202

Ion	Ratio	Lower	Upper
119	100		
91	80.5	64.2	96.2
134	21.4	17.4	26.2

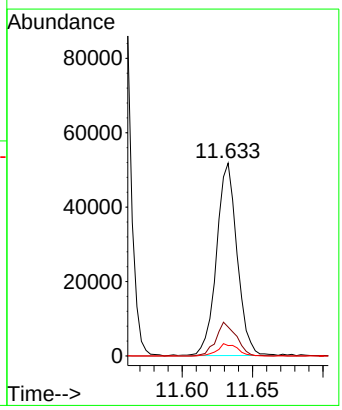


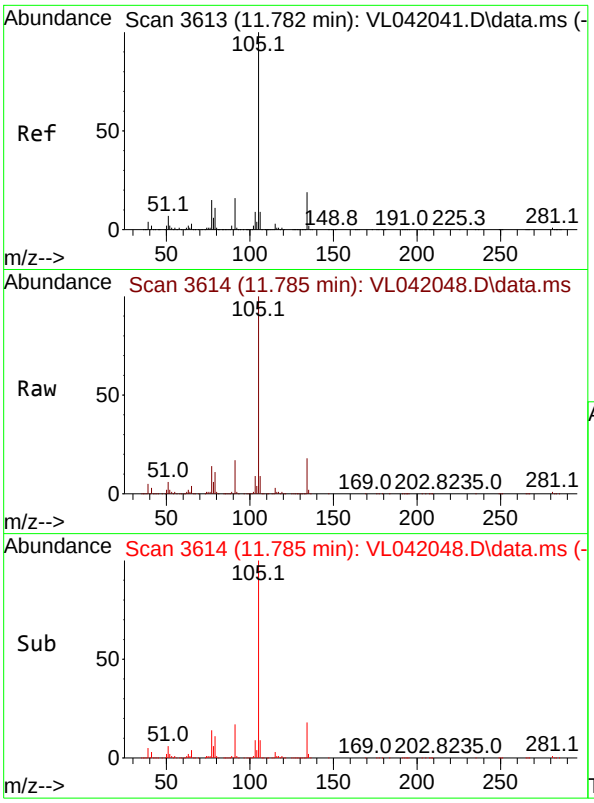


#66
Benzyl Chloride
Concen: 9.808 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 52645

Ion	Ratio	Lower	Upper
91	100		
126	17.4	14.5	21.7
128	6.2	5.4	8.2



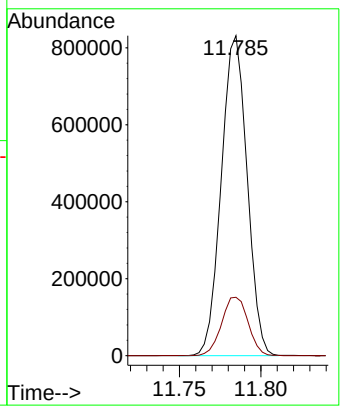


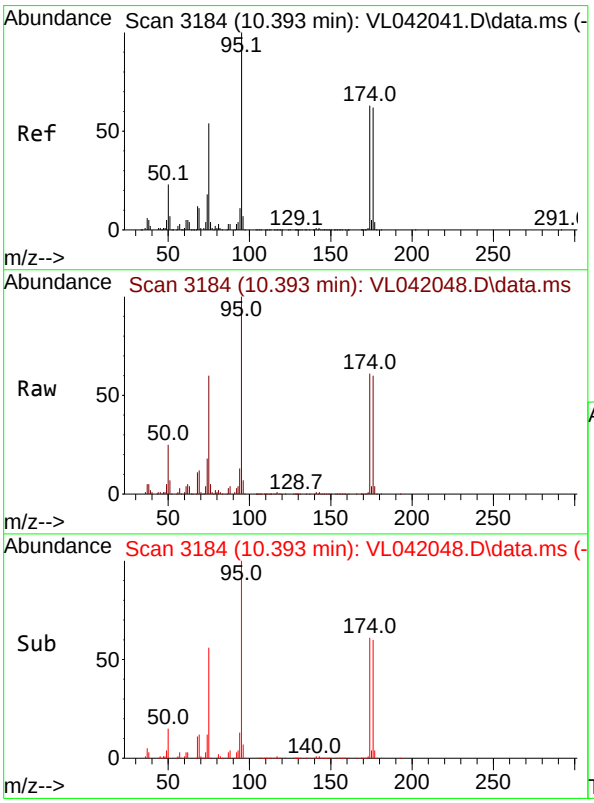
#67
sec-Butylbenzene
Concen: 9.090 ppbv
RT: 11.785 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:105 Resp: 914405

Ion	Ratio	Lower	Upper
105	100		
134	18.9	14.9	22.3

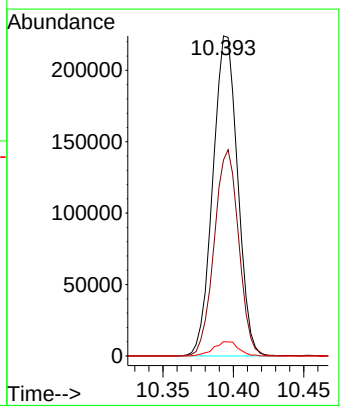


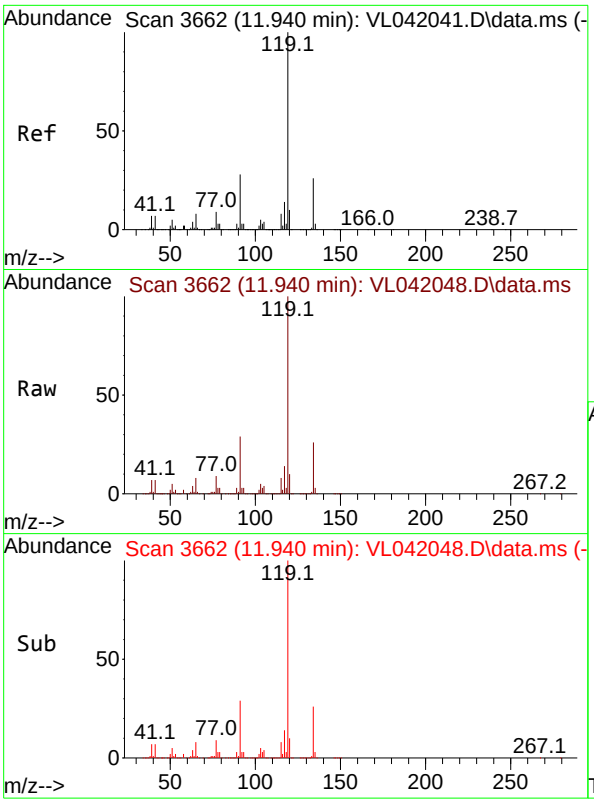


#68
1-Bromo-4-Fluorobenzene
Concen: 10.188 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 95 Resp: 274527

Ion	Ratio	Lower	Upper
95	100		
174	63.6	51.8	77.6
175	4.5	3.9	5.9



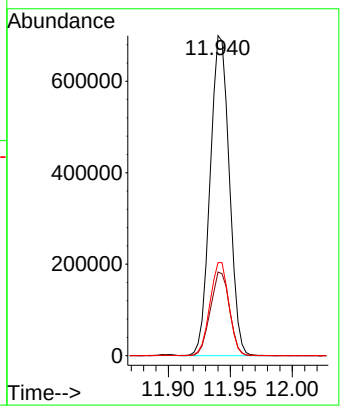


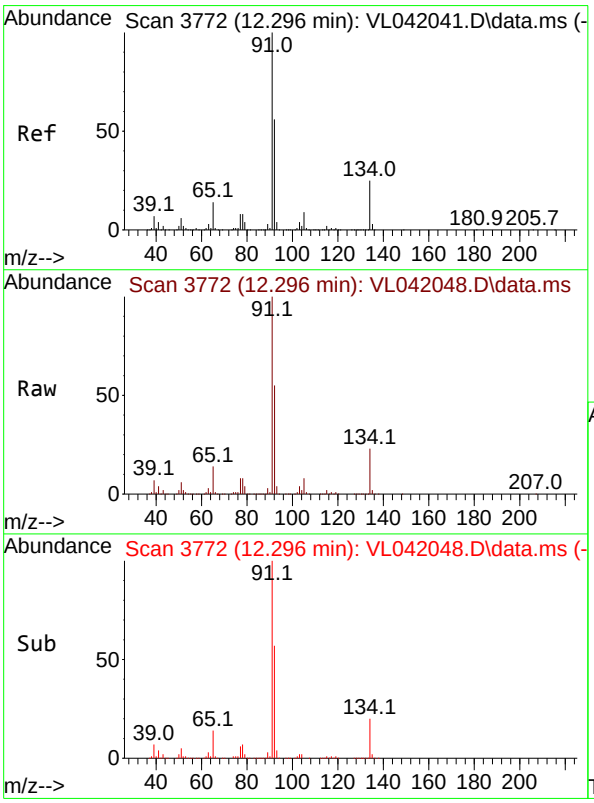
#69
p-Isopropyltoluene
Concen: 9.418 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:119 Resp: 753761

Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.9	31.3
91	28.9	23.1	34.7

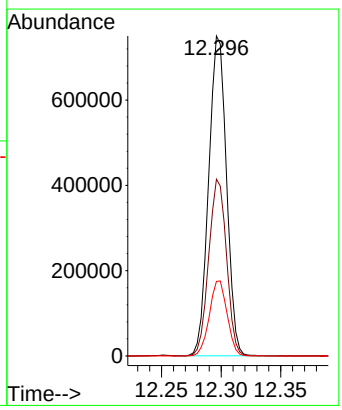


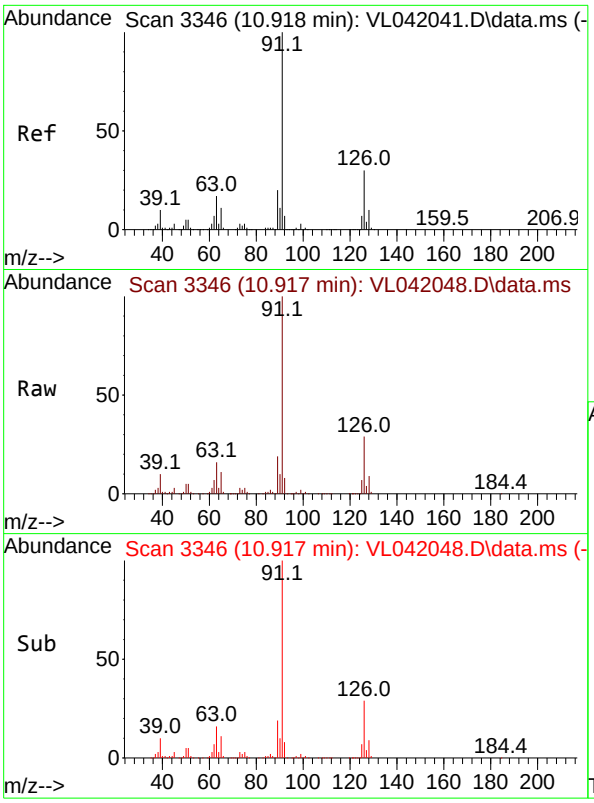


#70
n-Butylbenzene
Concen: 9.560 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion: 91 Resp: 781034

Ion	Ratio	Lower	Upper
91	100		
92	55.4	44.7	67.1
134	23.4	18.9	28.3



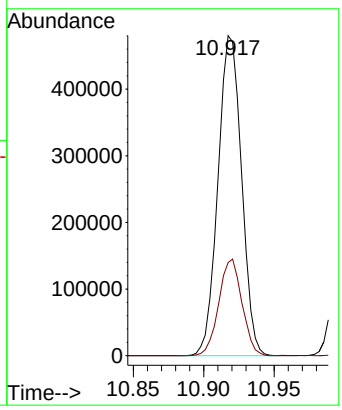


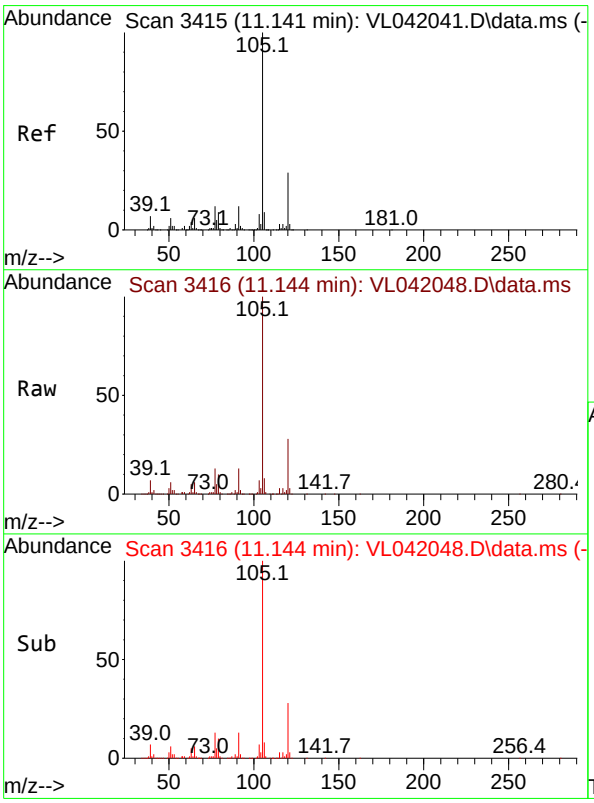
#71
2-Chlorotoluene
Concen: 9.399 ppbv
RT: 10.917 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion: 91 Resp: 559993

Ion	Ratio	Lower	Upper
91	100		
126	29.6	11.9	47.5

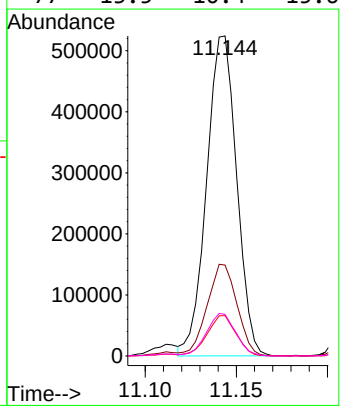


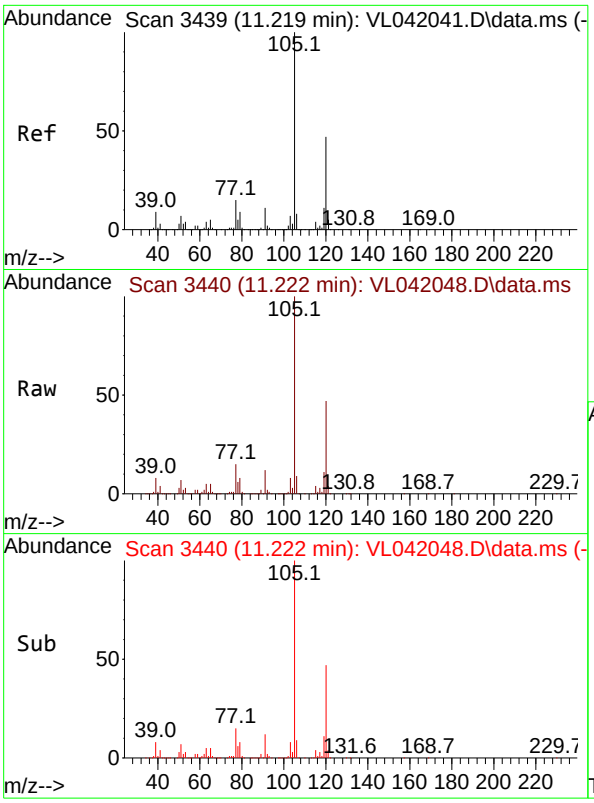


#72
4-Ethyltoluene
Concen: 9.557 ppbv
RT: 11.144 min Scan# 3416
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:105 Resp: 602156

Ion	Ratio	Lower	Upper
105	100		
120	29.5	24.1	36.1
91	12.7	10.2	15.4
77	13.5	10.4	15.6



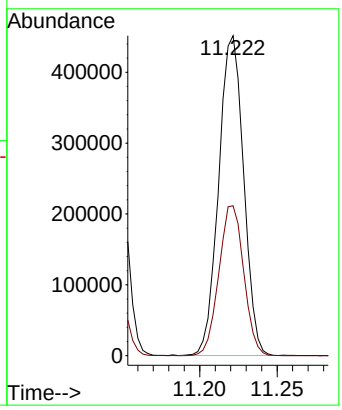


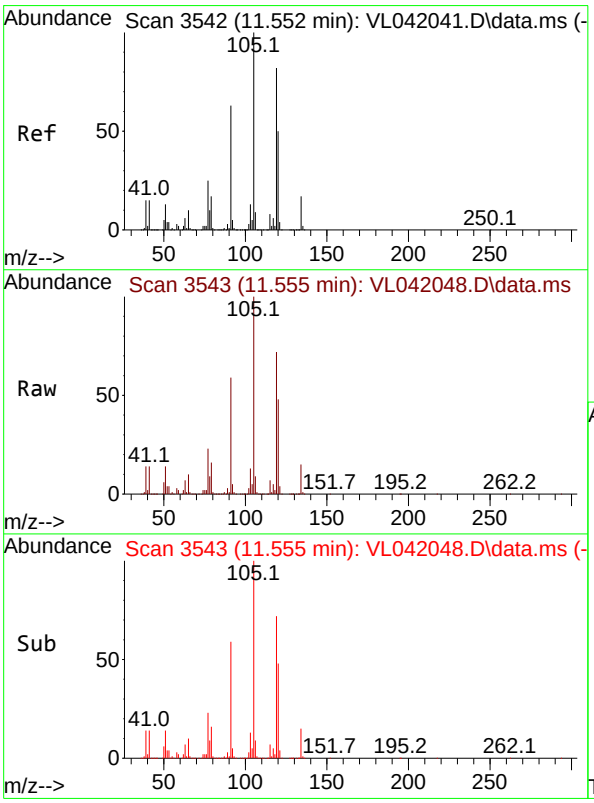
#73
1,3,5-Trimethylbenzene
Concen: 9.248 ppbv
RT: 11.222 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:105 Resp: 505451

Ion	Ratio	Lower	Upper
105	100		
120	46.9	37.4	56.0

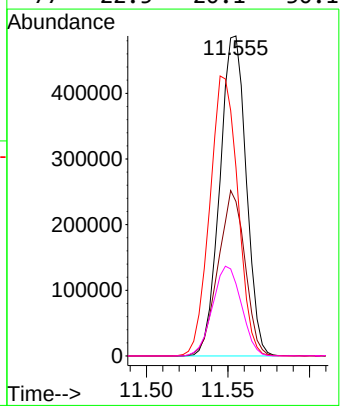


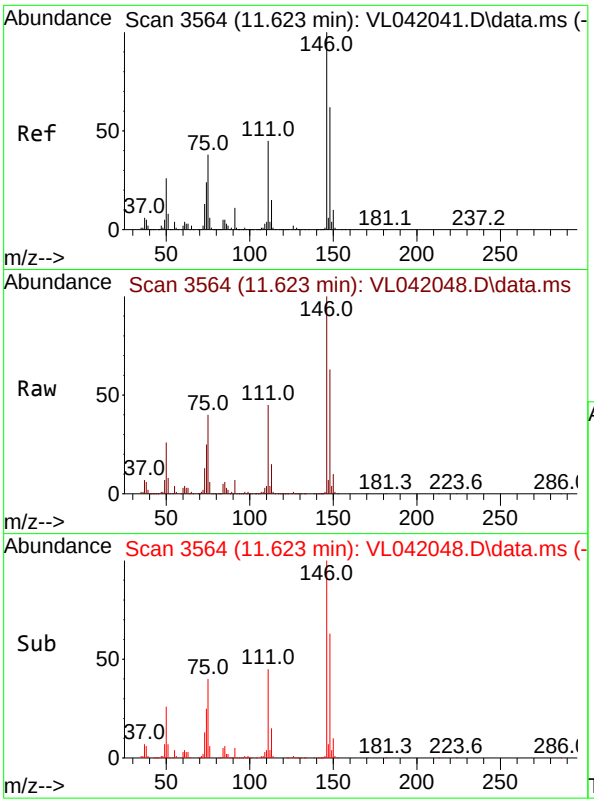


#74
1,2,4-Trimethylbenzene
Concen: 8.891 ppbv
RT: 11.555 min Scan# 3543
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:105 Resp: 547176

Ion	Ratio	Lower	Upper
105	100		
120	48.2	40.2	60.2
91	58.9	51.4	77.2
77	22.5	20.1	30.1



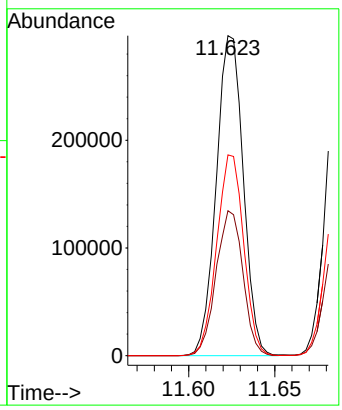


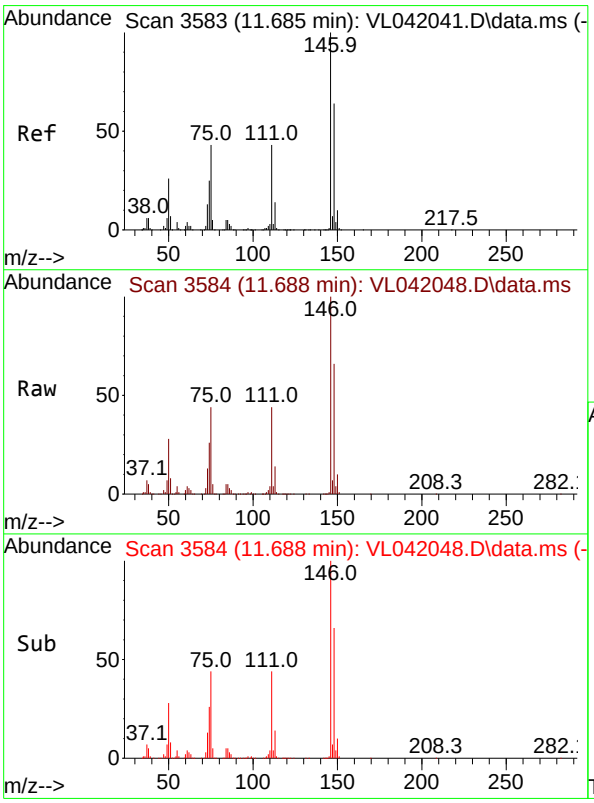
#75
1,3-Dichlorobenzene
Concen: 9.161 ppbv
RT: 11.623 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:146 Resp: 324491

Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.4	67.2
148	62.7	32.3	96.8

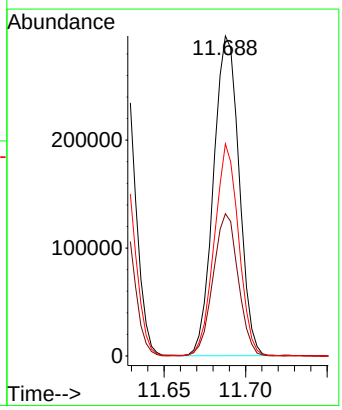


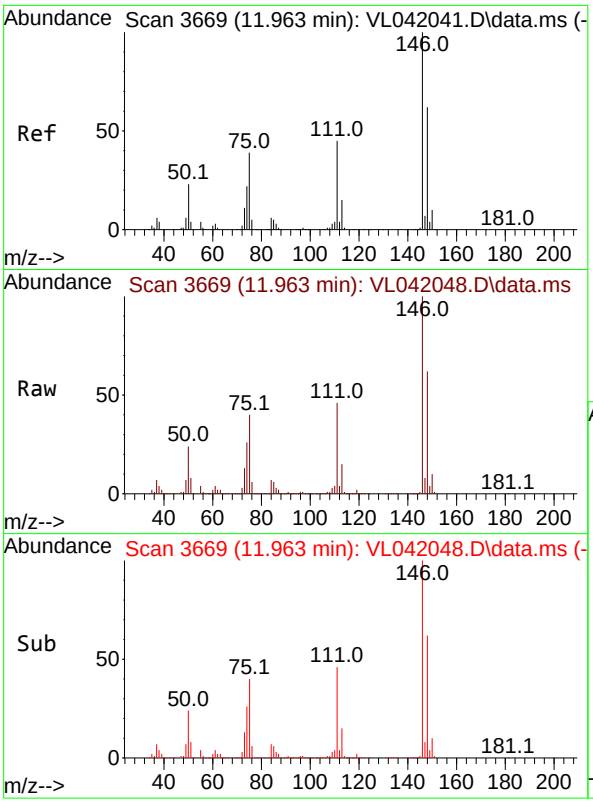


#76
1,4-Dichlorobenzene
Concen: 9.176 ppbv
RT: 11.688 min Scan# 3584
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:146 Resp: 322712

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.5	64.5
148	63.2	31.6	95.0



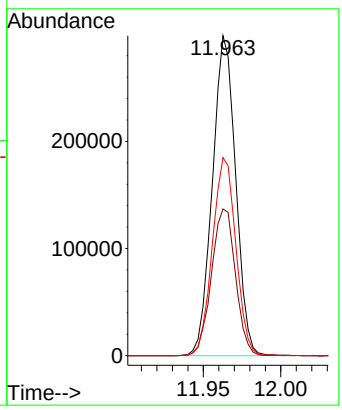


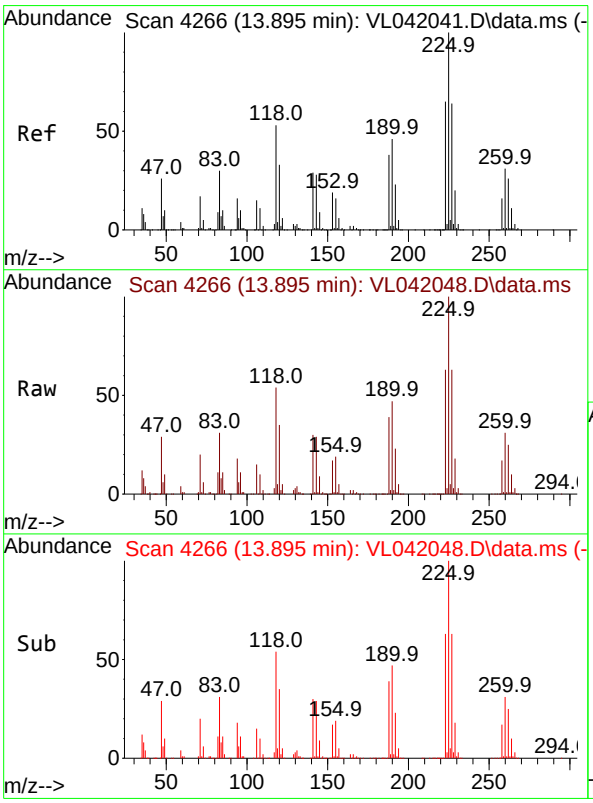
#77
1,2-Dichlorobenzene
Concen: 9.081 ppbv
RT: 11.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:146 Resp: 312159

Ion	Ratio	Lower	Upper
146	100		
111	47.4	23.2	69.6
148	62.6	31.4	94.2

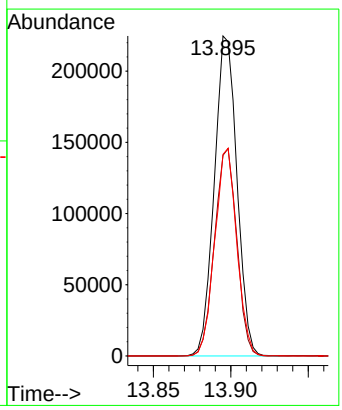


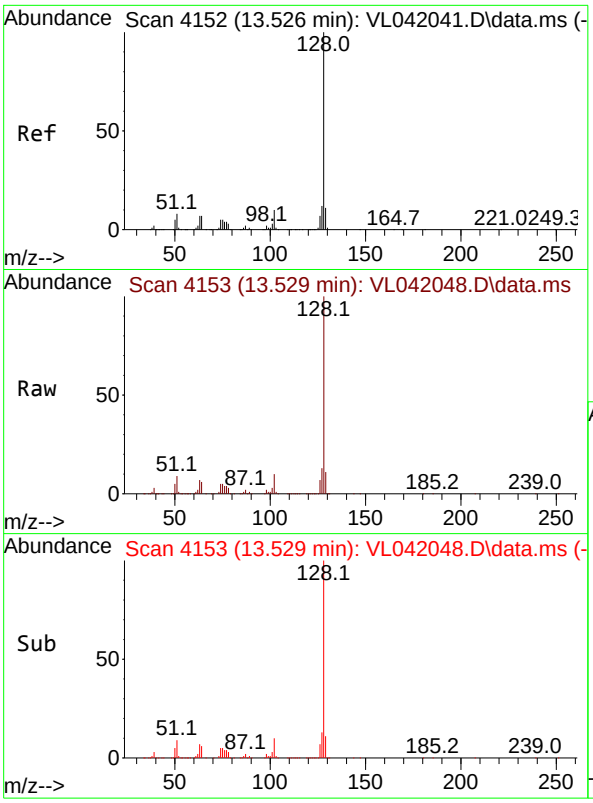


#78
Hexachloro-1,3-Butadiene
Concen: 8.543 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:225 Resp: 228480

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.2	75.2
227	63.1	50.8	76.2



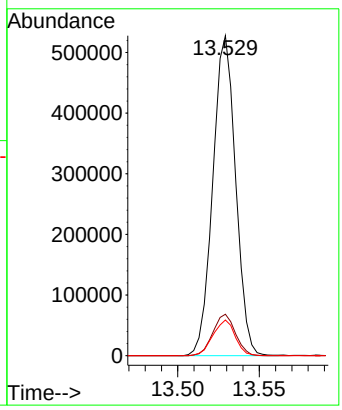


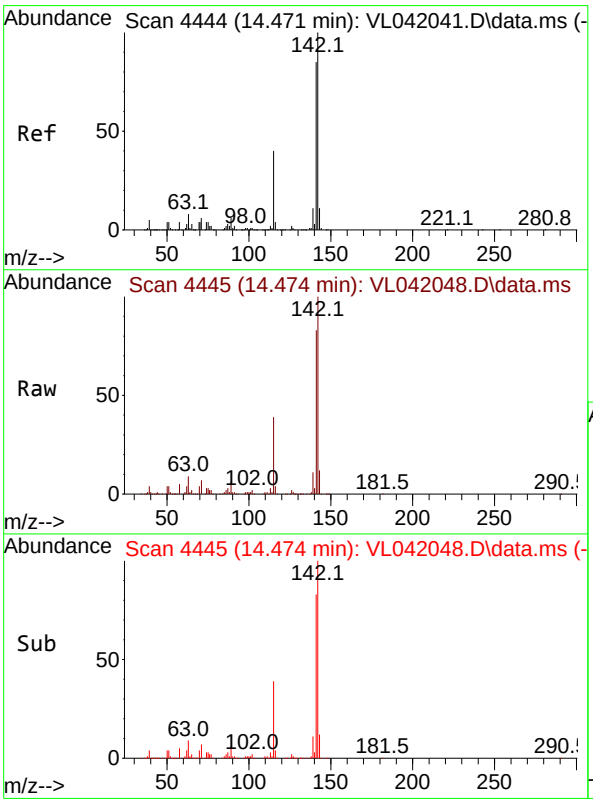
#79
Naphthalene
Concen: 12.160 ppbv
RT: 13.529 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:128 Resp: 513148

Ion	Ratio	Lower	Upper
128	100		
127	13.0	9.8	14.6
129	11.1	8.6	12.8

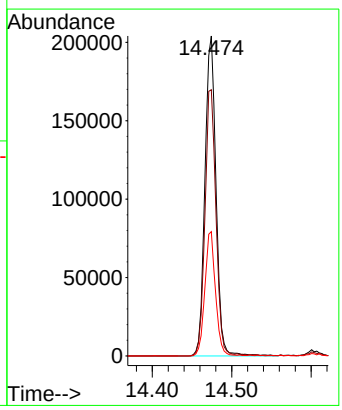


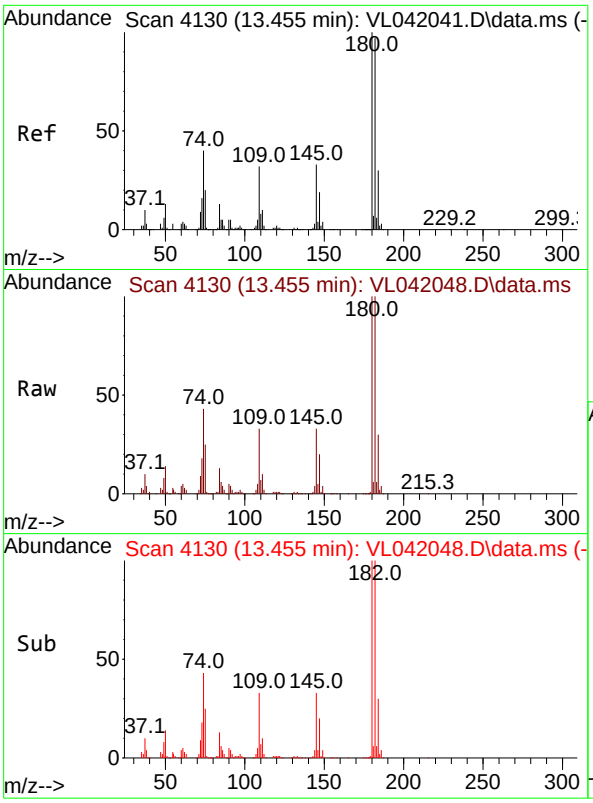


#80
Naphthalene,2-methyl-
Concen: 17.152 ppbv
RT: 14.474 min Scan# 4445
Delta R.T. 0.003 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Tgt Ion:142 Resp: 198077

Ion	Ratio	Lower	Upper
142	100		
141	83.6	65.8	98.6
115	38.2	29.5	44.3



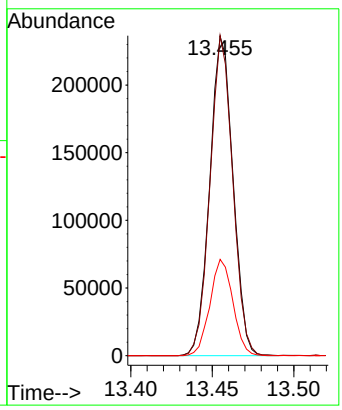


#81
1,2,4-Trichlorobenzene
Concen: 9.965 ppbv
RT: 13.455 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042048.D
Acq: 25 Feb 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

Tgt Ion:180 Resp: 234354

Ion	Ratio	Lower	Upper
180	100		
182	97.6	75.1	112.7
184	29.7	23.8	35.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042115.D
Acq On : 10 Mar 2025 09:08
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	165085	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	392891	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	342991	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	279482	10.591	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	176674	10.292	ppbv	100
3) Chlorodifluoromethane	1.479	51	214625	8.945	ppbv	100
4) Chloromethane	1.538	50	66603	10.491	ppbv	99
5) Vinyl Chloride	1.586	62	63194	10.524	ppbv	99
6) Bromomethane	1.674	94	31189	10.908	ppbv	95
7) Chloroethane	1.709	64	25650	10.513	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	149265	10.577	ppbv	96
9) Propene	1.489	41	84787	8.674	ppbv	97
10) Heptane	5.004	43	250763	8.240	ppbv	99
11) Trichlorofluoromethane	1.884	101	186477	10.841	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	135213	9.855	ppbv	95
13) Ethanol	1.729	45	4581	7.383	ppbv	100
14) Bromoethene	1.787	108	49525	10.221	ppbv	99
15) Acetone	1.842	43	143215	9.824	ppbv	98
16) 1,3-Butadiene	1.615	39	69593	10.258	ppbv	97
17) tert-Butyl alcohol	2.049	59	159834	8.763	ppbv	99
18) 1,1-Dichloroethene	2.043	96	60058	9.687	ppbv	93
19) Isopropyl Alcohol	1.894	45	80799	9.648	ppbv	95
20) Methylene Chloride	2.068	84	54929	9.961	ppbv	94
21) Allyl Chloride	2.104	41	103183	9.796	ppbv	97
22) trans-1,2-Dichloroethene	2.350	96	72057	9.970	ppbv	93
23) Vinyl Acetate	2.473	43	75424	7.358	ppbv #	97
24) 1,1-Dichloroethane	2.418	63	139243	10.354	ppbv	99
25) Ethyl Acetate	2.848	43	504073	8.638	ppbv	99
26) Hexane	2.839	57	200177	8.485	ppbv	97
27) Carbon Disulfide	2.159	76	161105	10.074	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	124414	10.593	ppbv	96
29) Chloroform	2.861	83	278501	8.771	ppbv	97
30) Cyclohexane	3.874	84	154573	8.072	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	173603	7.774	ppbv	98
32) 1,1,1-Trichloroethane	3.382	97	245078	7.957	ppbv	95
34) 2-Butanone	2.570	43	280396	9.161	ppbv	96
35) Carbon Tetrachloride	3.777	117	263471	9.725	ppbv	96
36) Benzene	3.671	78	373628	9.084	ppbv	99
37) 1,2-Dichloroethane	3.234	62	197592	8.665	ppbv	100
38) Trichloroethene	4.567	130	141399	8.419	ppbv	91
39) 1,2-Dichloropropane	4.331	63	143609	9.199	ppbv	96
40) 1,4-Dioxane	4.609	88	66354	9.311	ppbv #	98
41) Tetrahydrofuran	3.069	42	160836	8.893	ppbv	96
42) Bromodichloromethane	4.509	83	282060	9.180	ppbv	98
43) Methyl Methacrylate	4.907	69	131818	8.207	ppbv	95
44) 2,2,4-Trimethylpentane	4.661	57	672958	9.271	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	120441	7.547	ppbv	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042115.D
Acq On : 10 Mar 2025 09:08
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

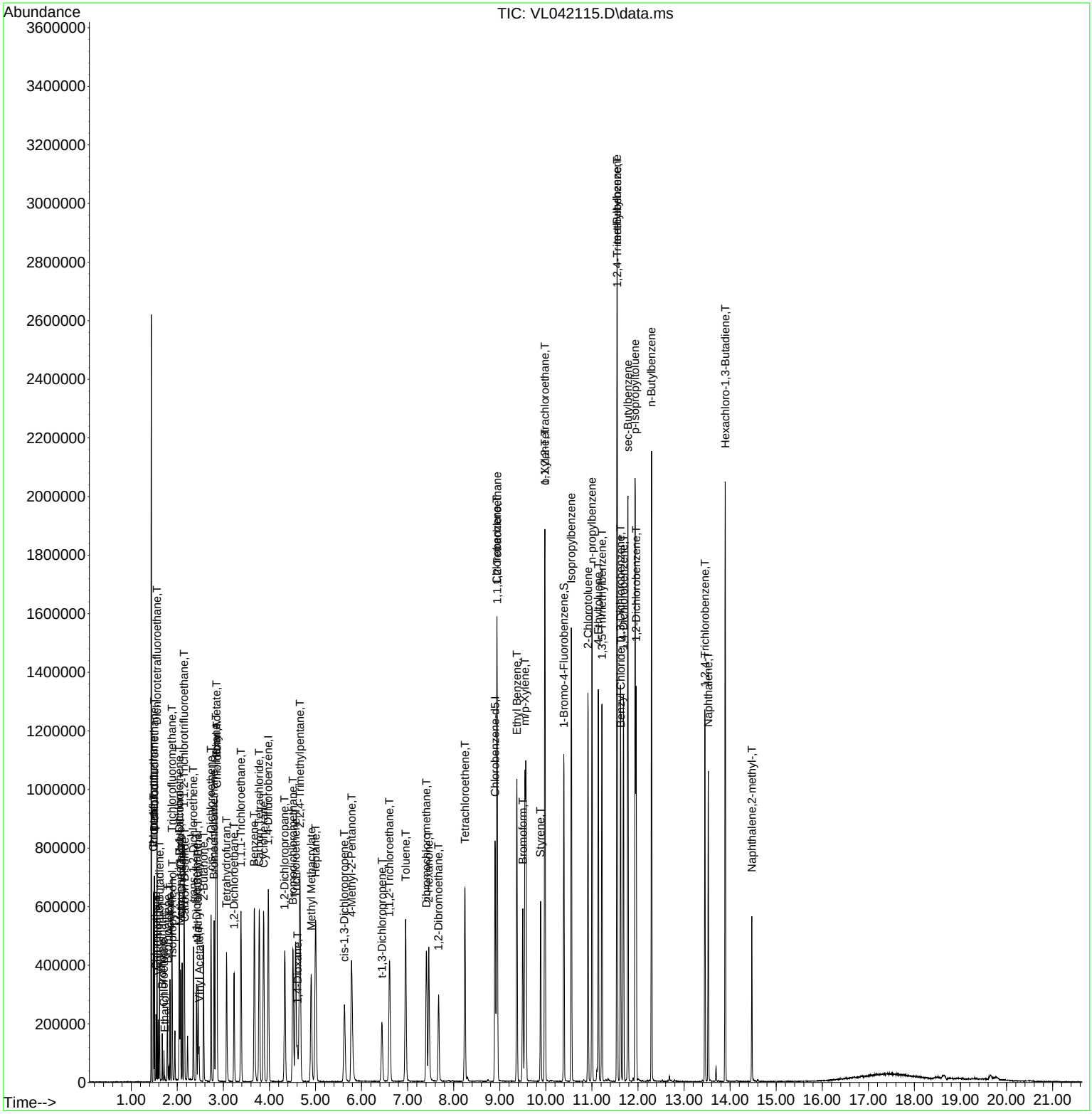
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	168796	8.174	ppbv		98
47) 1,1,2-Trichloroethane	6.603	97	74588	4.706	ppbv		98
48) Dibromochloromethane	7.406	129	223556	9.006	ppbv		98
49) Bromoform	9.500	173	202719	9.404	ppbv		98
50) 4-Methyl-2-Pentanone	5.784	43	384115	9.703	ppbv		98
51) 2-Hexanone	7.457	43	305375	11.208	ppbv	#	98
52) Tetrachloroethene	8.244	164	120090	8.529	ppbv		97
53) Toluene	6.959	91	388571	8.453	ppbv		99
54) 1,2-Dibromoethane	7.671	107	189652	8.851	ppbv		94
56) 1,1,1,2-Tetrachloroethane	8.943	131	184992	9.542	ppbv		99
57) Chlorobenzene	8.937	112	330038	9.281	ppbv		99
58) Ethyl Benzene	9.370	91	549396	8.698	ppbv		100
59) m/p-Xylene	9.548	91	438243	8.718	ppbv	#	100
60) o-Xylene	9.979	91	466520	9.232	ppbv		98
61) Styrene	9.885	104	204092	8.590	ppbv		98
62) Isopropylbenzene	10.552	105	696113	9.198	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.979	83	327603	9.844	ppbv		99
64) n-propylbenzene	11.002	120	187705	9.455	ppbv		99
65) tert-Butylbenzene	11.542	119	627319	9.108	ppbv		99
66) Benzyl Chloride	11.626	91	43097	8.200	ppbv		100
67) sec-Butylbenzene	11.782	105	899556	9.132	ppbv		99
69) p-Isopropyltoluene	11.937	119	744068	9.494	ppbv		99
70) n-Butylbenzene	12.293	91	759905	9.499	ppbv		99
71) 2-Chlorotoluene	10.914	91	515375	8.834	ppbv		99
72) 4-Ethyltoluene	11.137	105	566348	9.179	ppbv		100
73) 1,3,5-Trimethylbenzene	11.218	105	480409	8.976	ppbv		99
74) 1,2,4-Trimethylbenzene	11.549	105	550074	9.127	ppbv		95
75) 1,3-Dichlorobenzene	11.620	146	325514	9.385	ppbv		99
76) 1,4-Dichlorobenzene	11.684	146	321685	9.341	ppbv		100
77) 1,2-Dichlorobenzene	11.960	146	322300	9.575	ppbv		99
78) Hexachloro-1,3-Butadiene	13.895	225	221283	8.449	ppbv		100
79) Naphthalene	13.526	128	470224	11.379	ppbv		99
80) Naphthalene,2-methyl-	14.471	142	147775	13.067	ppbv		99
81) 1,2,4-Trichlorobenzene	13.455	180	214425	9.311	ppbv		99

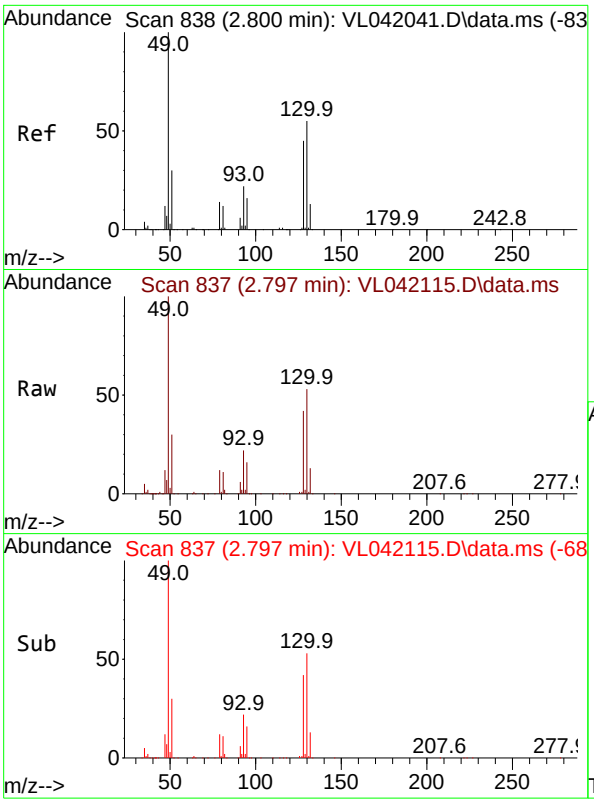
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042115.D
Acq On : 10 Mar 2025 09:08
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



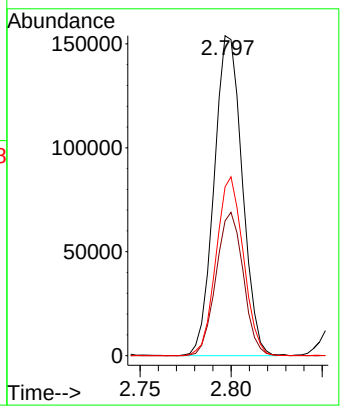


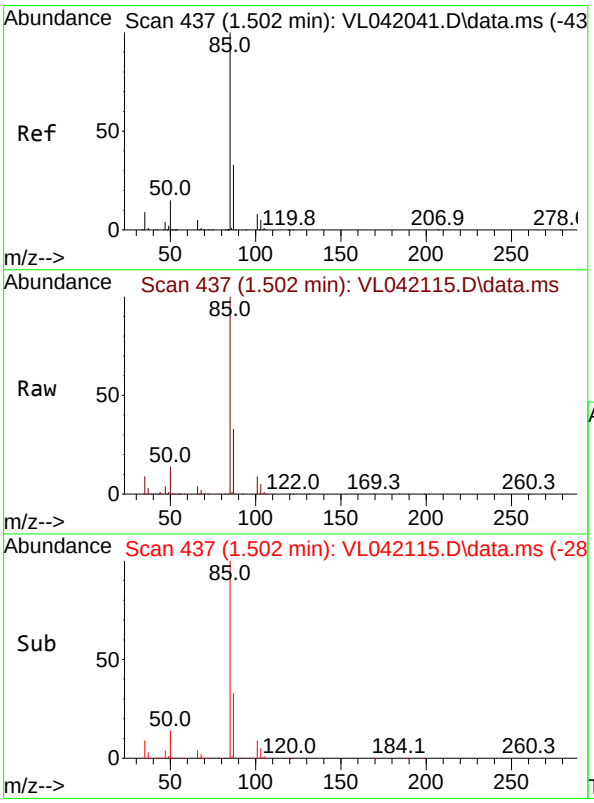
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 165085

Ion	Ratio	Lower	Upper
49	100		
128	43.4	21.6	64.8
130	54.2	27.8	83.4

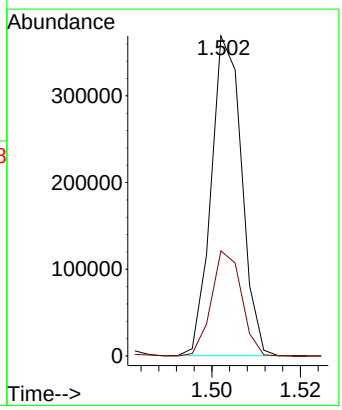


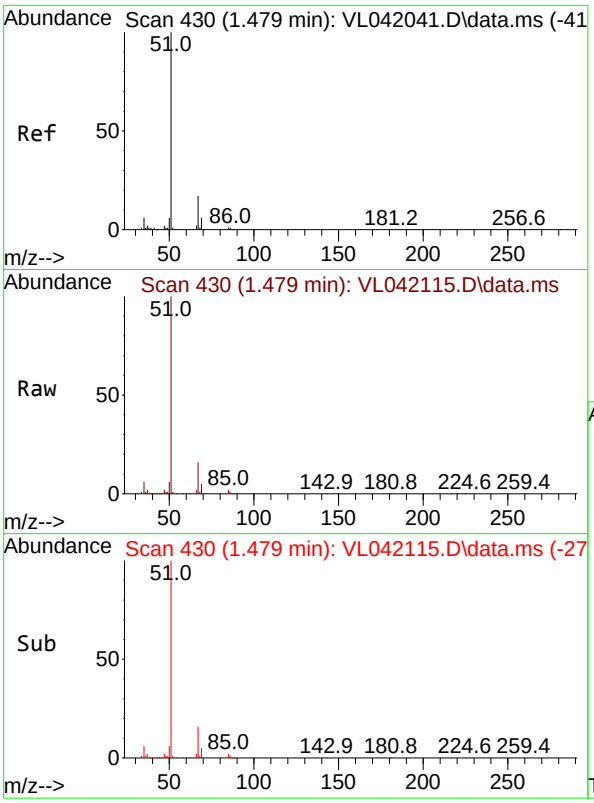


#2
Dichlorodifluoromethane
Concen: 10.292 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 85 Resp: 176674

Ion	Ratio	Lower	Upper
85	100		
87	32.9	26.4	39.6



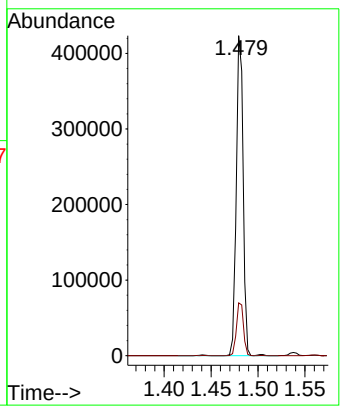


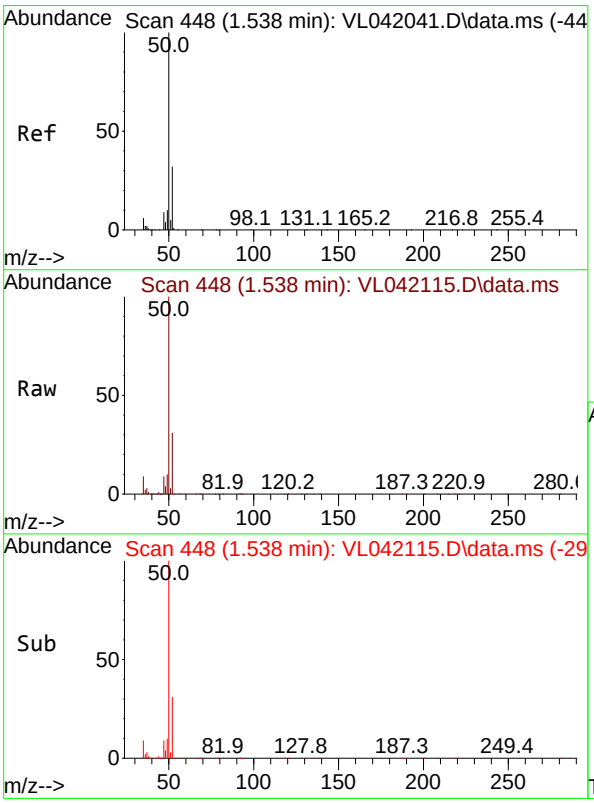
#3
Chlorodifluoromethane
Concen: 8.945 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 214625

Ion	Ratio	Lower	Upper
51	100		
67	16.9	13.7	20.5

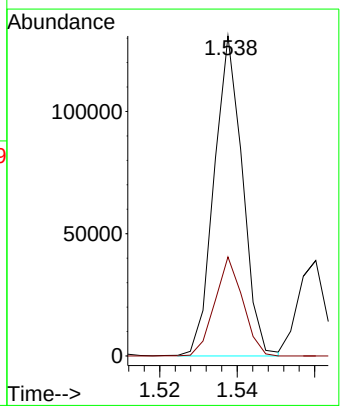


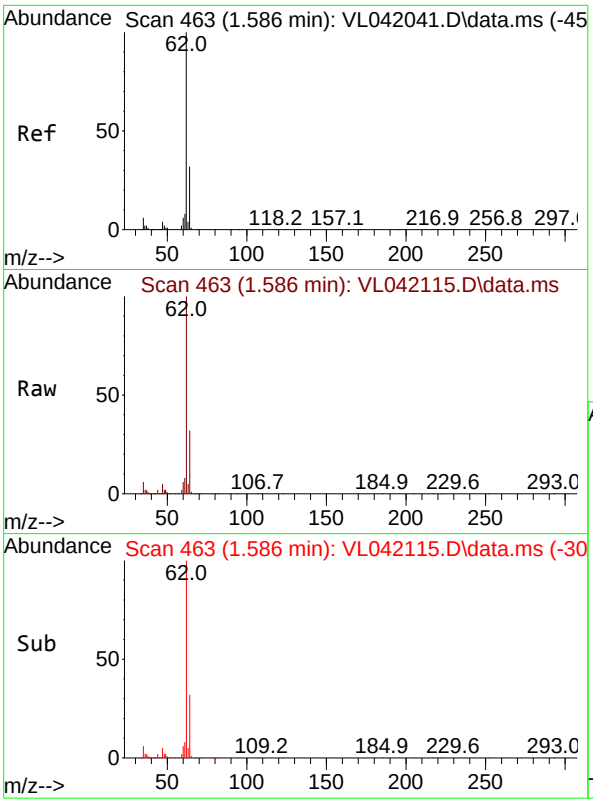


#4
Chloromethane
Concen: 10.491 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 50 Resp: 66603

Ion	Ratio	Lower	Upper
50	100		
52	31.0	25.4	38.0



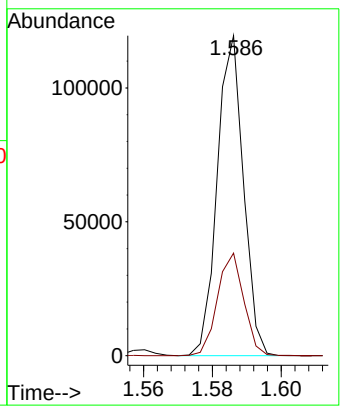


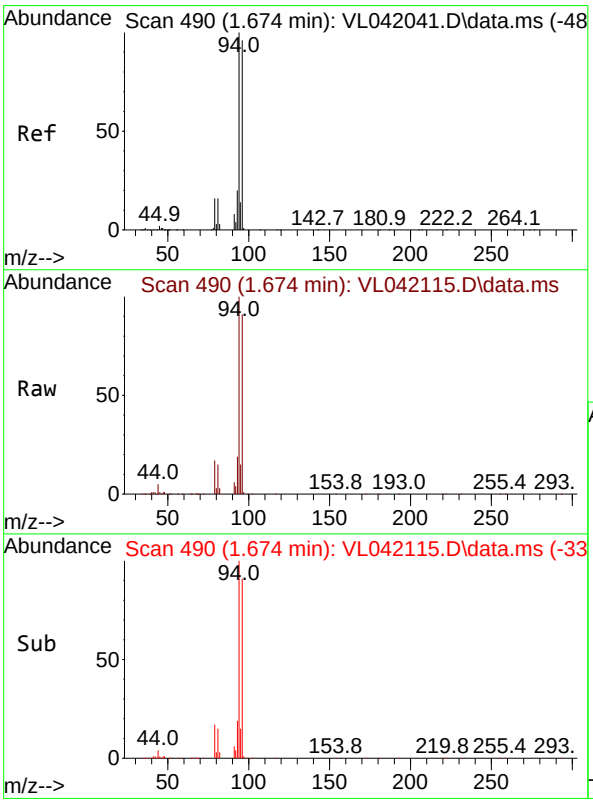
#5
Vinyl Chloride
Concen: 10.524 ppbv
RT: 1.586 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 63194

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.3	37.9

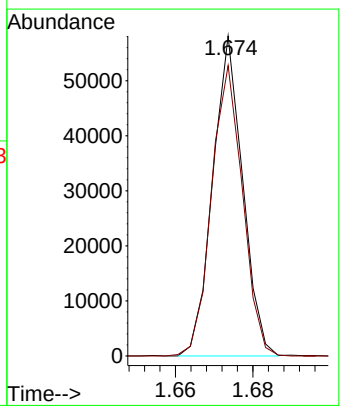


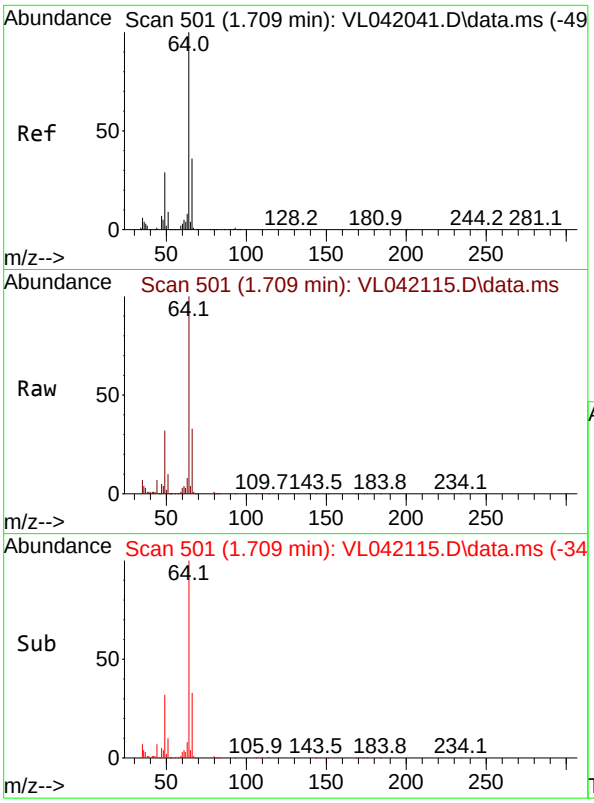


#6
Bromomethane
Concen: 10.908 ppbv
RT: 1.674 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 94 Resp: 31189

Ion	Ratio	Lower	Upper
94	100		
96	90.5	76.5	114.7



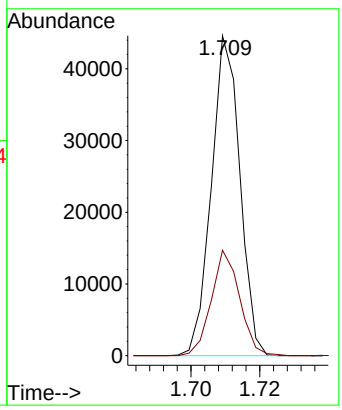


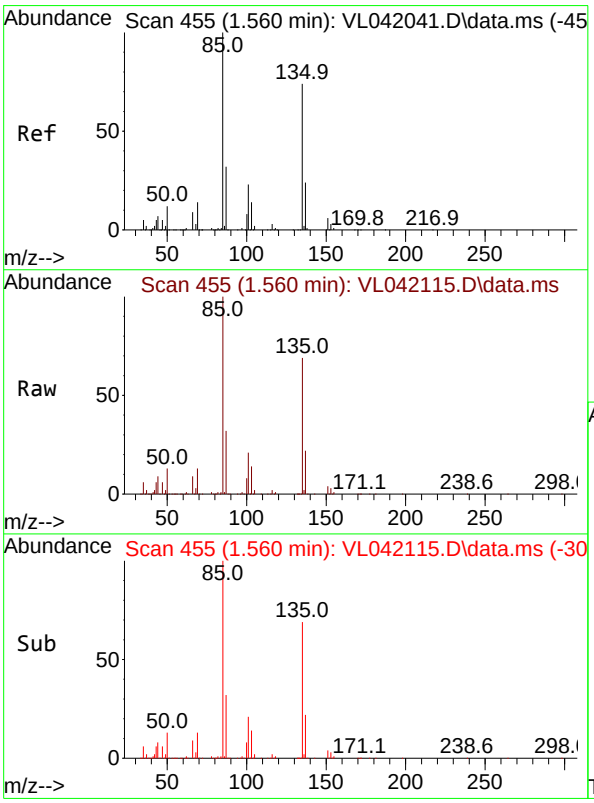
#7
Chloroethane
Concen: 10.513 ppbv
RT: 1.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 25650

Ion	Ratio	Lower	Upper
64	100		
66	32.9	28.4	42.6

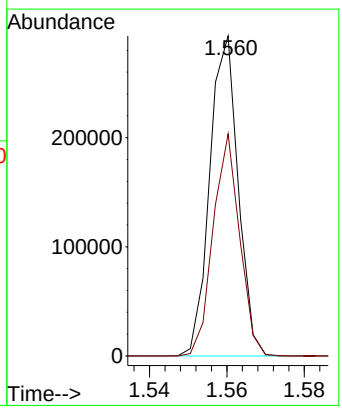


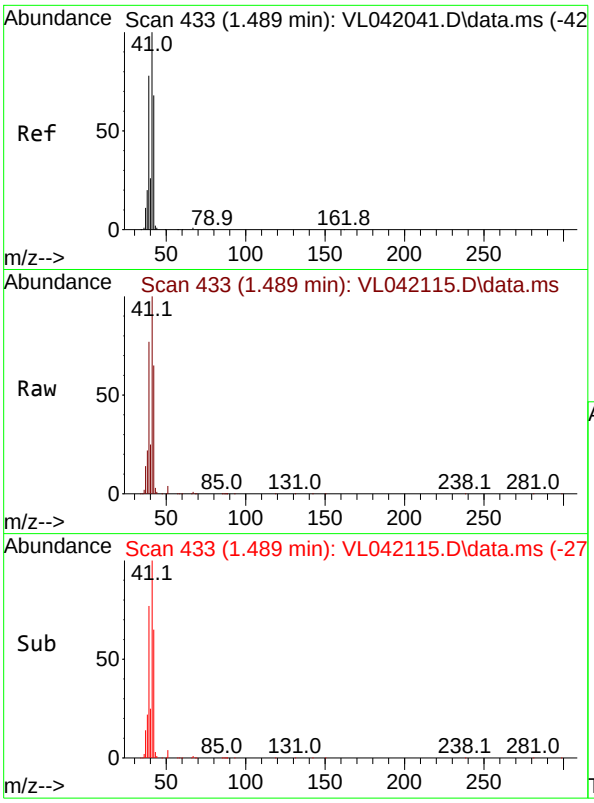


#8
Dichlorotetrafluoroethane
Concen: 10.577 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 85 Resp: 149265

Ion	Ratio	Lower	Upper
85	100		
135	64.9	54.6	81.8



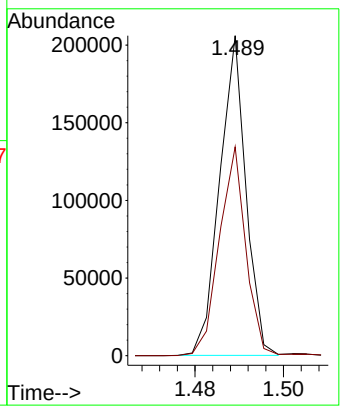


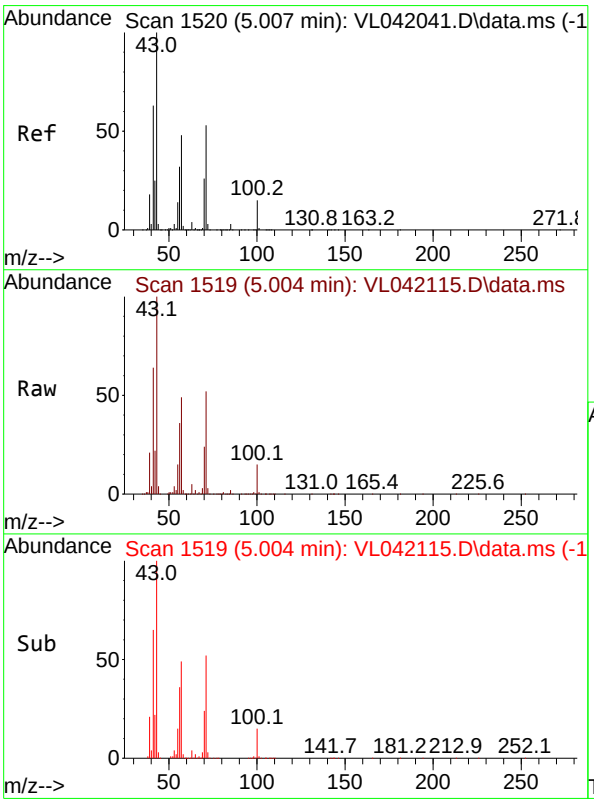
#9
Propene
Concen: 8.674 ppbv
RT: 1.489 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 84787

Ion	Ratio	Lower	Upper
41	100		
42	67.0	55.8	83.6

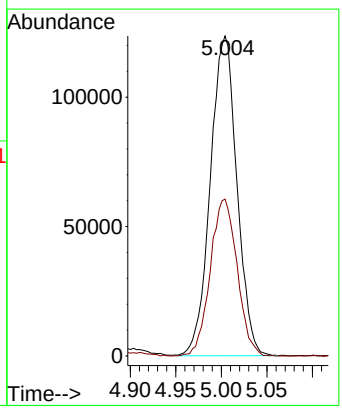


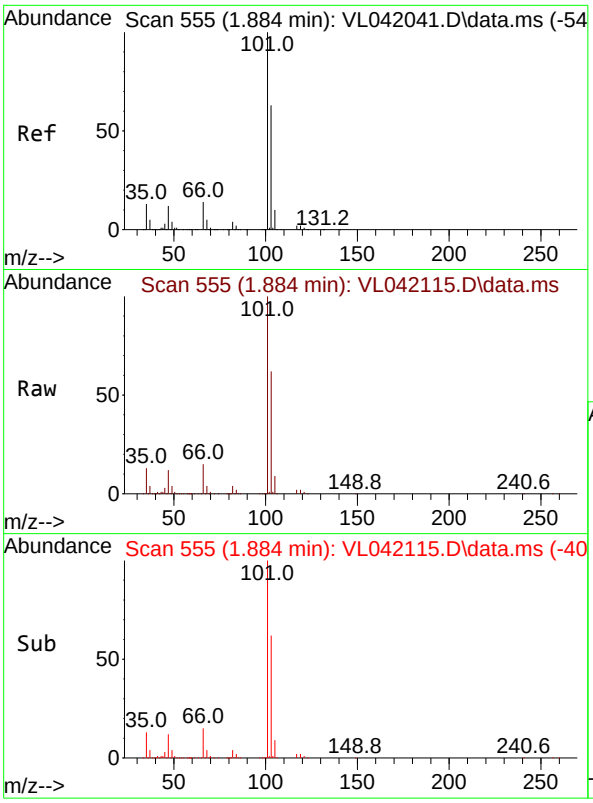


#10
Heptane
Concen: 8.240 ppbv
RT: 5.004 min Scan# 1519
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 43 Resp: 250763

Ion	Ratio	Lower	Upper
43	100		
57	49.6	39.4	59.0



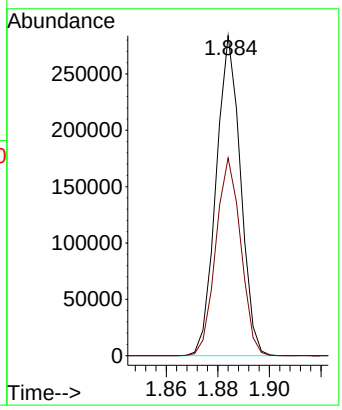


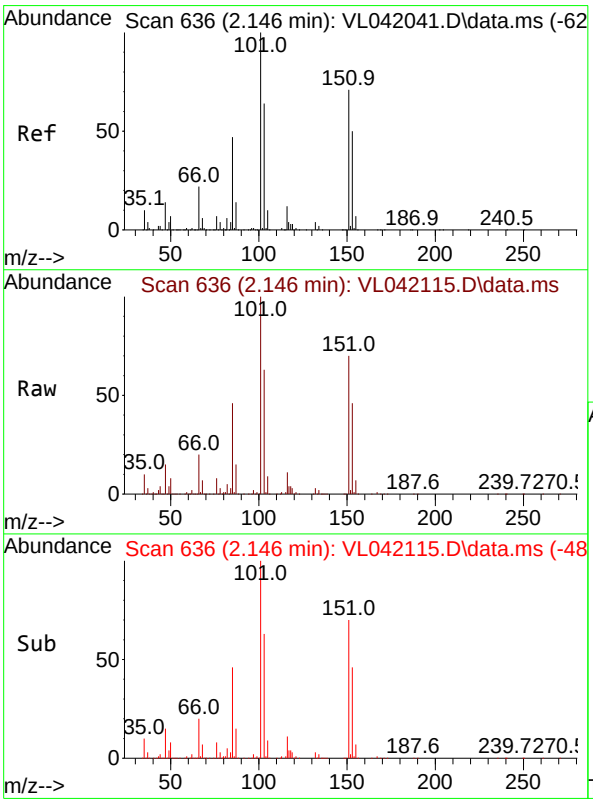
#11
Trichlorofluoromethane
Concen: 10.841 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 186477

Ion	Ratio	Lower	Upper
101	100		
103	61.8	50.6	75.8

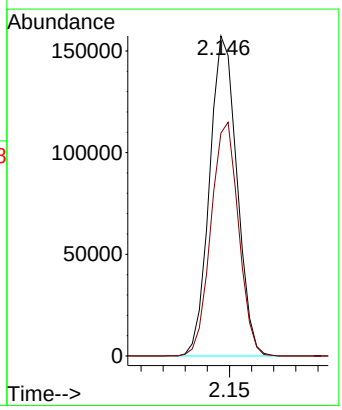


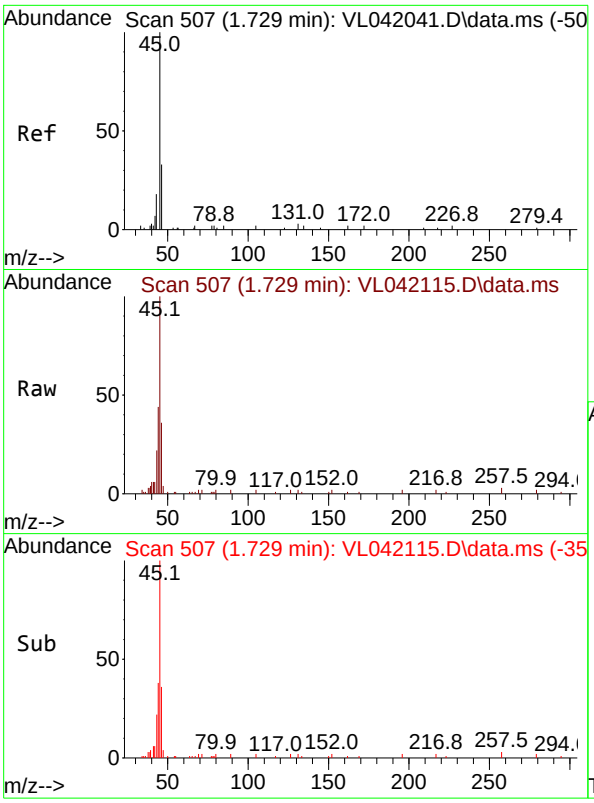


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.855 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:101 Resp: 135213

Ion	Ratio	Lower	Upper
101	100		
151	73.6	62.6	94.0



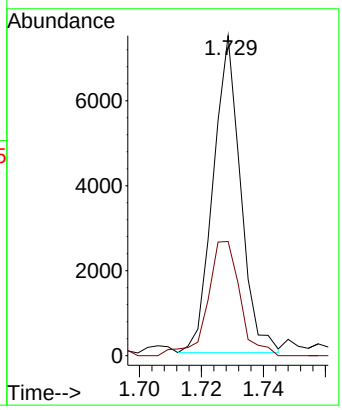


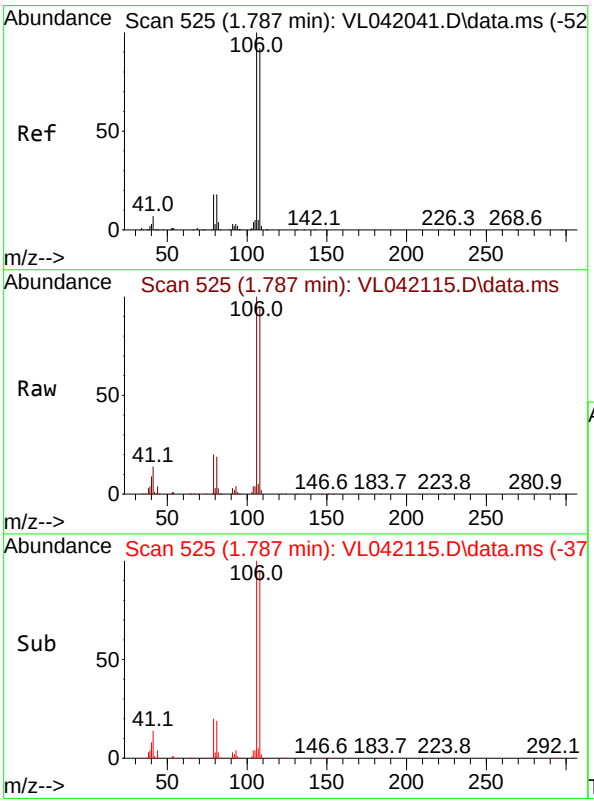
#13
Ethanol
Concen: 7.383 ppbv
RT: 1.729 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 4581

Ion	Ratio	Lower	Upper
45	100		
46	42.4	17.1	68.3

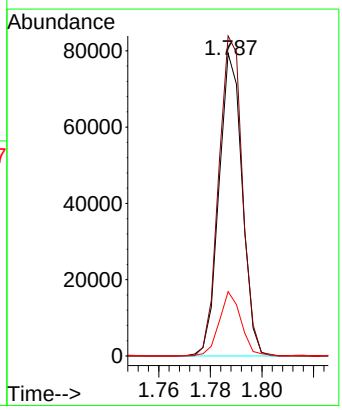


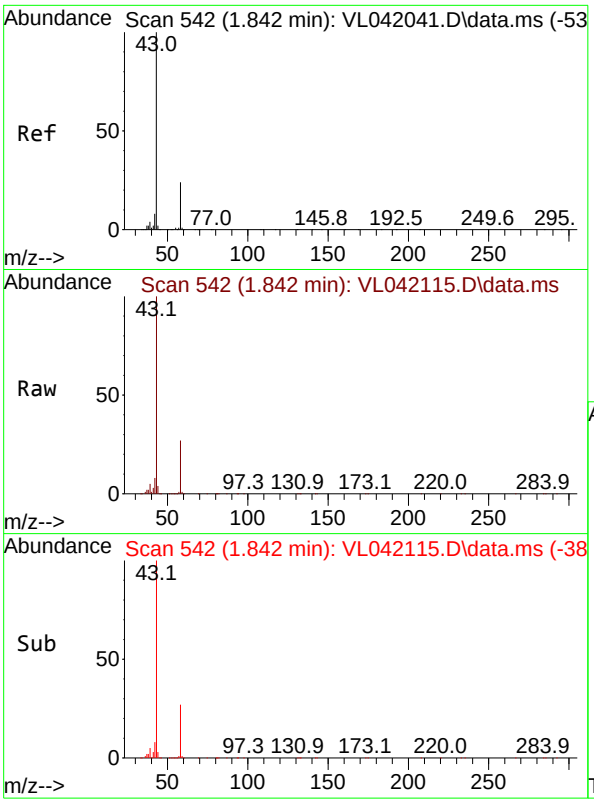


#14
Bromoethene
Concen: 10.221 ppbv
RT: 1.787 min Scan# 525
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:108 Resp: 49525

Ion	Ratio	Lower	Upper
108	100		
106	107.8	85.4	128.0
79	20.3	16.5	24.7



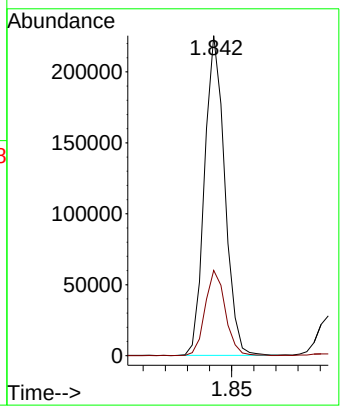


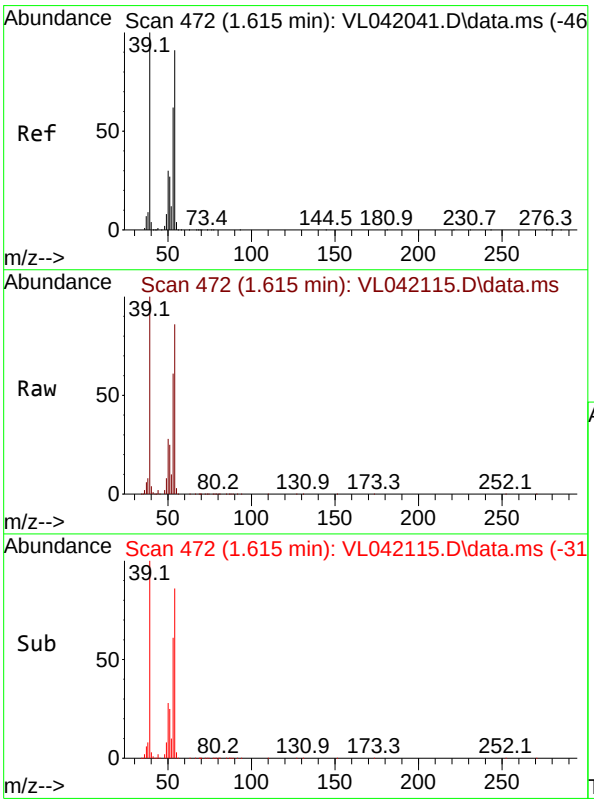
#15
Acetone
Concen: 9.824 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 143215

Ion	Ratio	Lower	Upper
43	100		
58	26.8	20.7	31.1

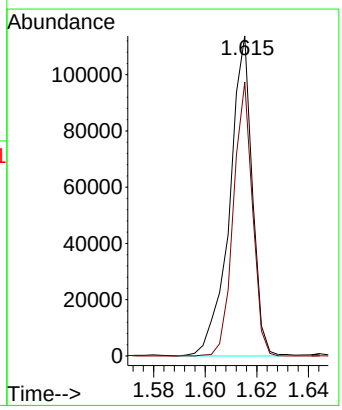


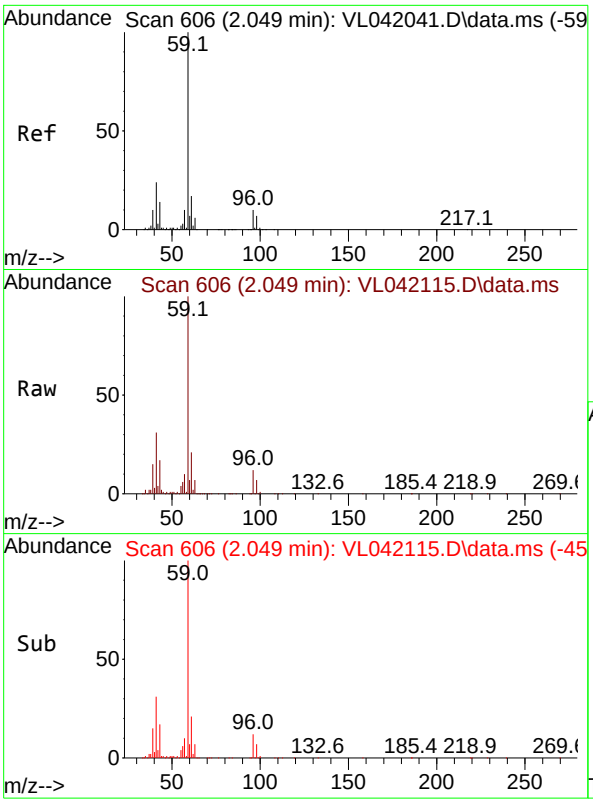


#16
1,3-Butadiene
Concen: 10.258 ppbv
RT: 1.615 min Scan# 472
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 39 Resp: 69593

Ion	Ratio	Lower	Upper
39	100		
54	71.8	59.6	89.4



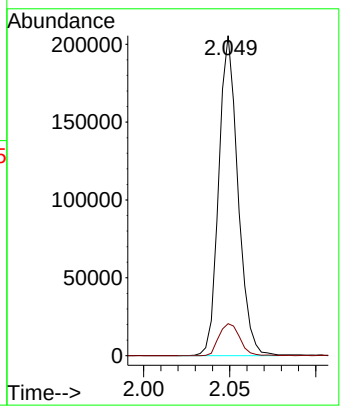


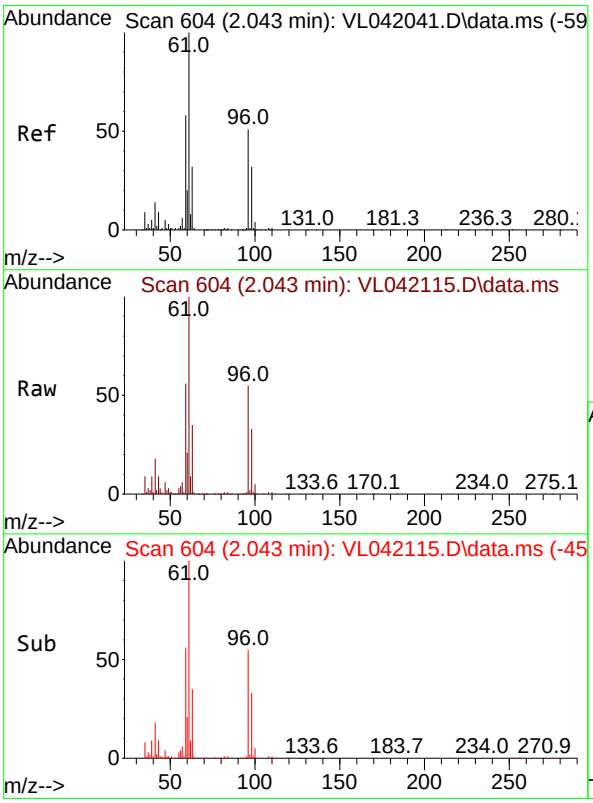
#17
tert-Butyl alcohol
Concen: 8.763 ppbv
RT: 2.049 min Scan# 6(
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 159834

Ion	Ratio	Lower	Upper
59	100		
57	11.1	9.3	13.9

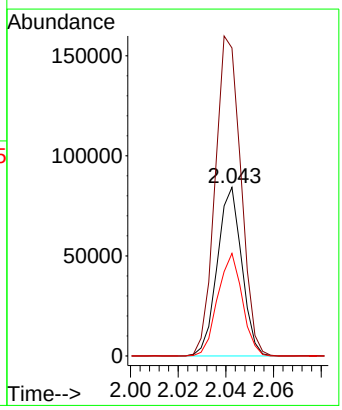


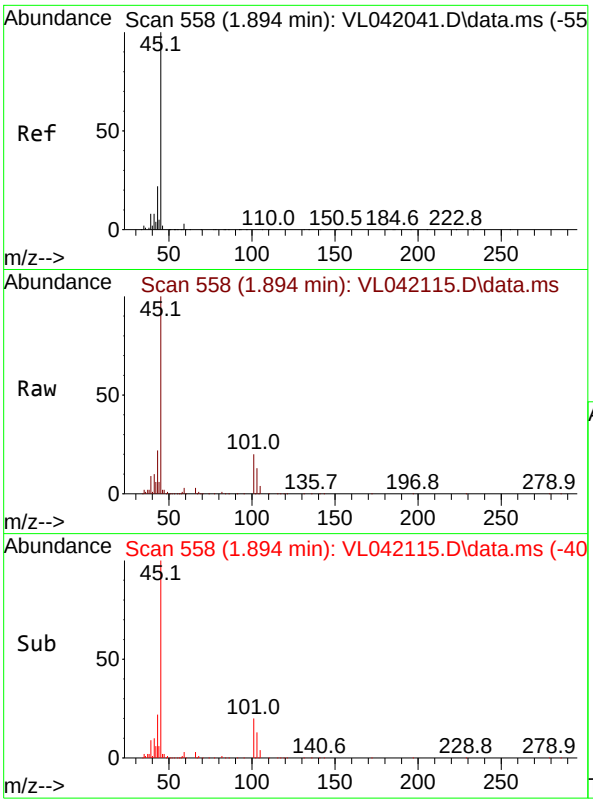


#18
1,1-Dichloroethene
Concen: 9.687 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 96 Resp: 60058

Ion	Ratio	Lower	Upper
96	100		
61	182.6	156.0	234.0
98	60.8	49.4	74.2



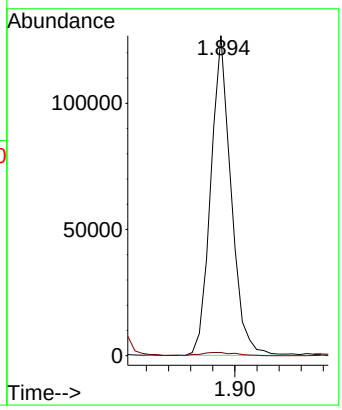


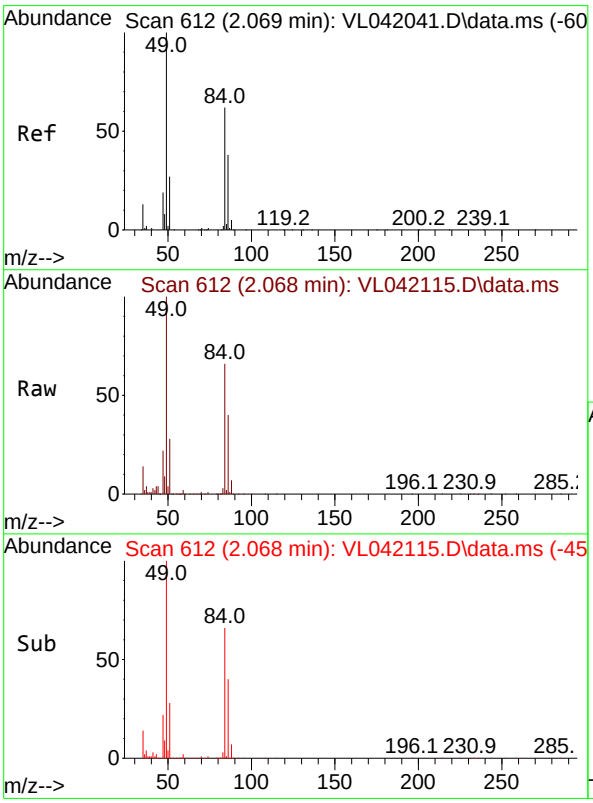
#19
Isopropyl Alcohol
Concen: 9.648 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 80799

Ion	Ratio	Lower	Upper
45	100		
58	47.5	35.3	52.9

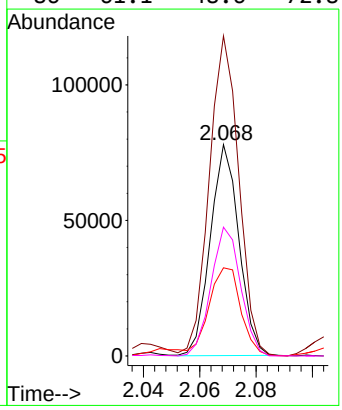


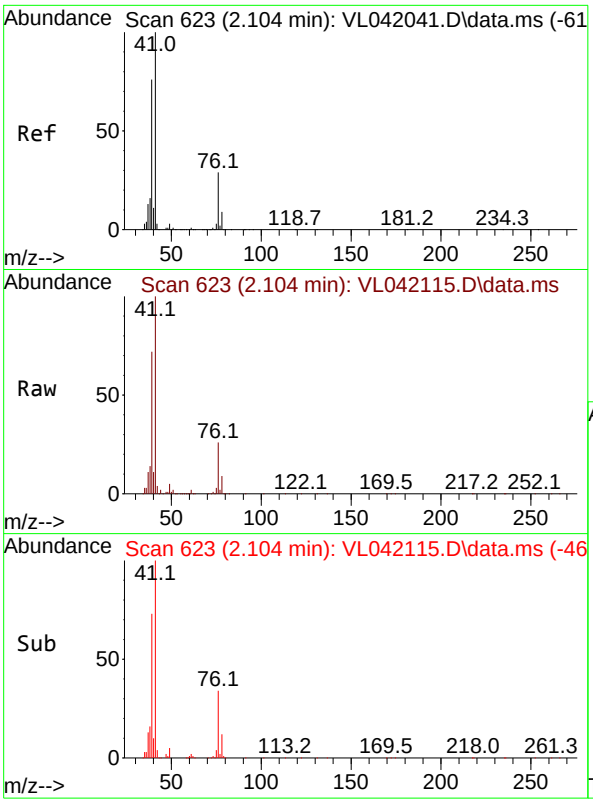


#20
Methylene Chloride
Concen: 9.961 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 84 Resp: 54929

Ion	Ratio	Lower	Upper
84	100		
49	151.6	130.0	195.0
51	41.6	37.4	56.0
86	61.1	48.6	72.8



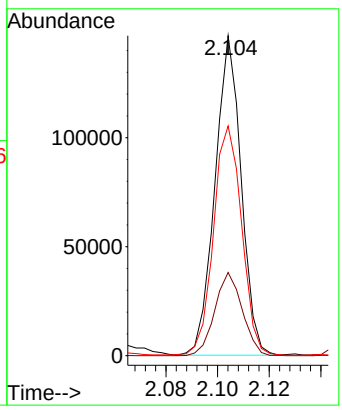


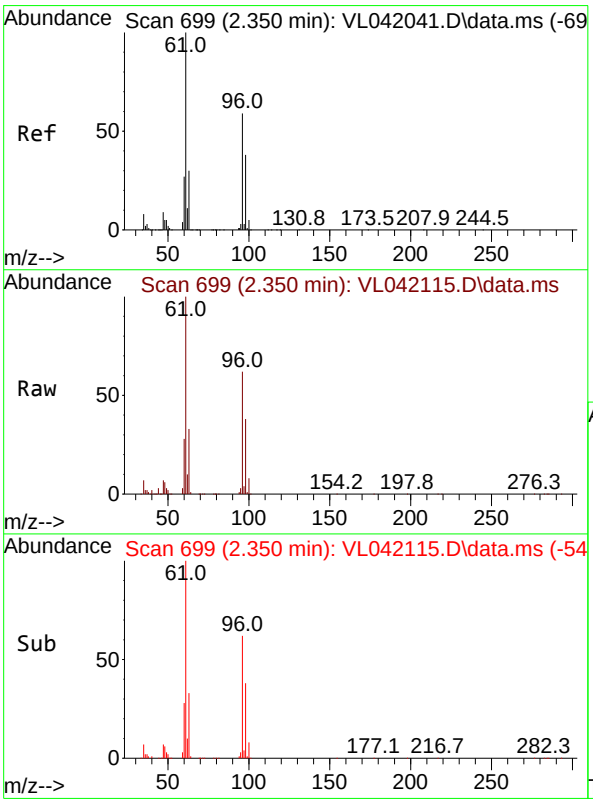
#21
Allyl Chloride
Concen: 9.796 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 103183

Ion	Ratio	Lower	Upper
41	100		
76	27.3	23.8	35.6
39	77.0	63.8	95.6

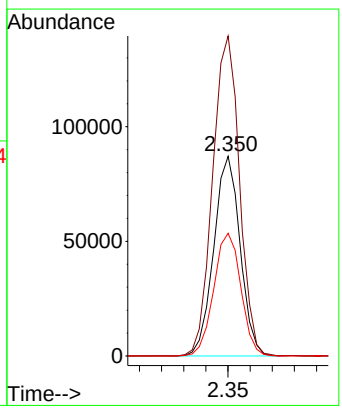


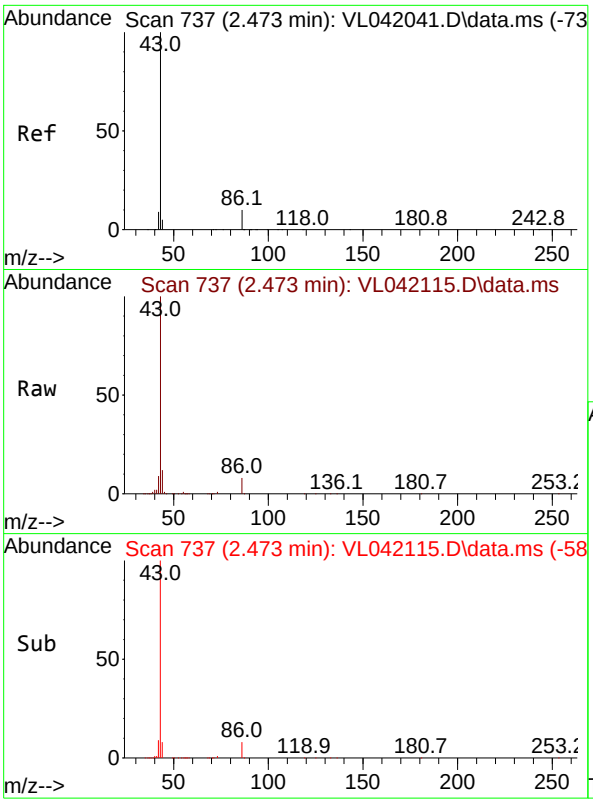


#22
trans-1,2-Dichloroethene
Concen: 9.970 ppbv
RT: 2.350 min Scan# 699
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 96 Resp: 72057

Ion	Ratio	Lower	Upper
96	100		
61	160.3	136.6	205.0
98	61.5	51.8	77.6



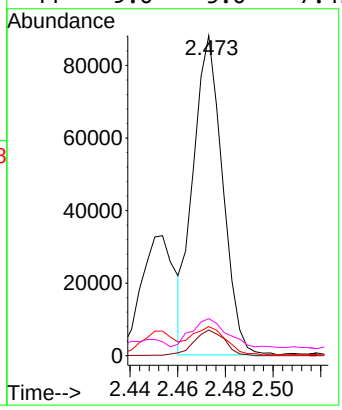


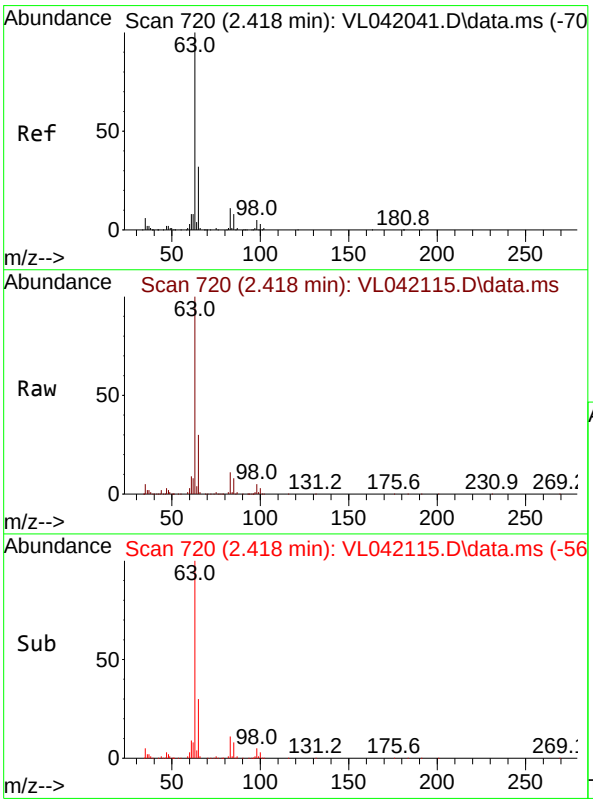
#23
Vinyl Acetate
Concen: 7.358 ppbv
RT: 2.473 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 75424

Ion	Ratio	Lower	Upper
43	100		
86	8.0	7.0	10.4
42	8.8	7.6	11.4
44	9.0	5.0	7.4#

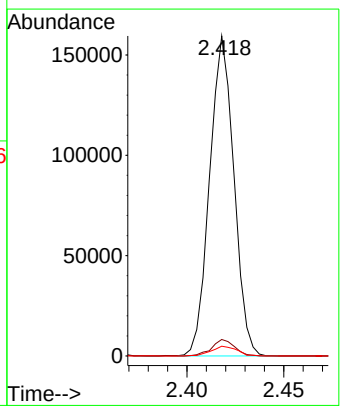


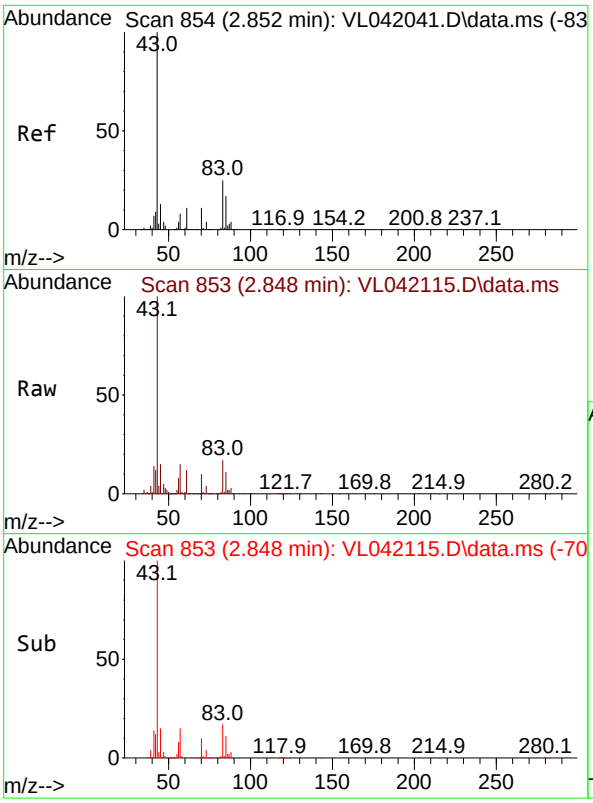


#24
1,1-Dichloroethane
Concen: 10.354 ppbv
RT: 2.418 min Scan# 720
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 63 Resp: 139243

Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.4	7.2
100	3.0	1.7	5.0



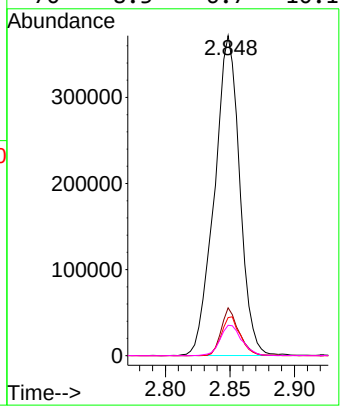


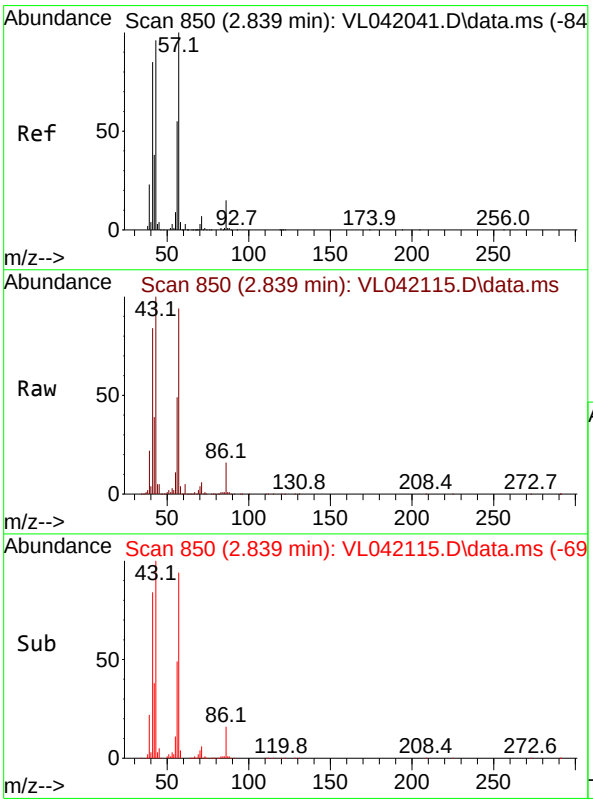
#25
Ethyl Acetate
Concen: 8.638 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 504073

Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.1	12.1
61	9.3	7.2	10.8
70	8.3	6.7	10.1

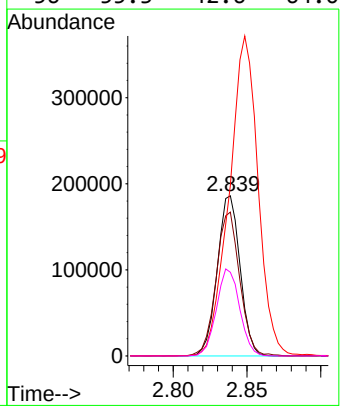


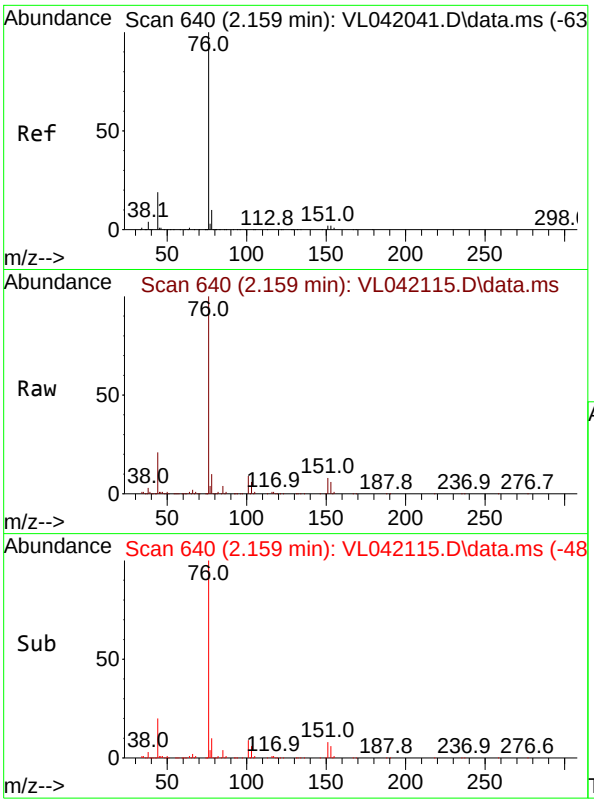


#26
Hexane
Concen: 8.485 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 57 Resp: 200177

Ion	Ratio	Lower	Upper
57	100		
41	93.5	70.6	106.0
43	252.6	199.4	299.0
56	55.3	42.6	64.0



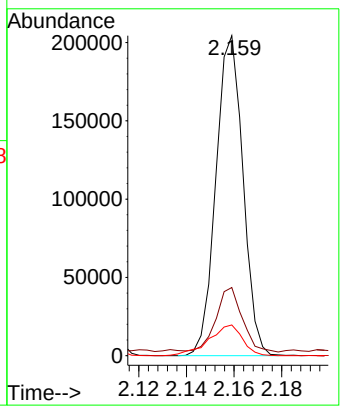


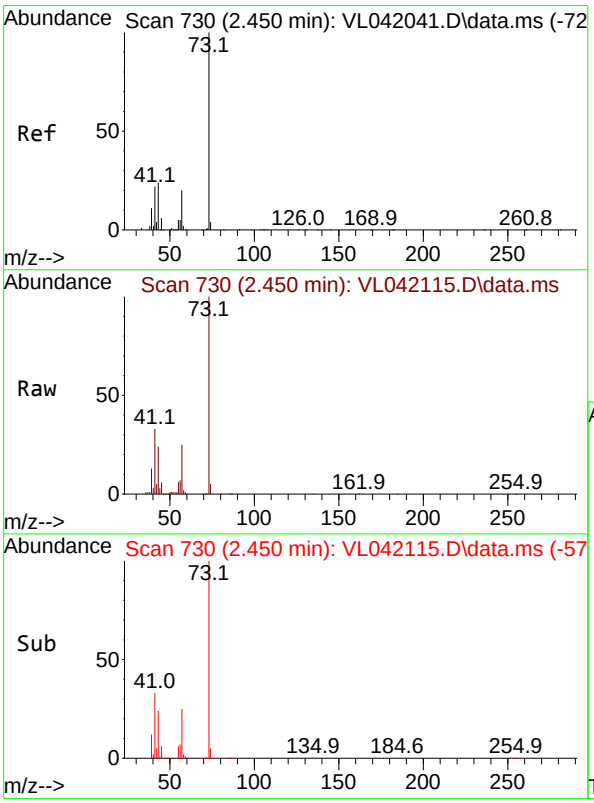
#27
Carbon Disulfide
Concen: 10.074 ppbv
RT: 2.159 min Scan# 64
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 76 Resp: 161105

Ion	Ratio	Lower	Upper
76	100		
44	19.9	16.2	24.2
78	11.9	9.4	14.0

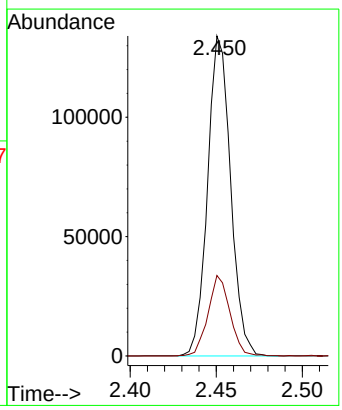


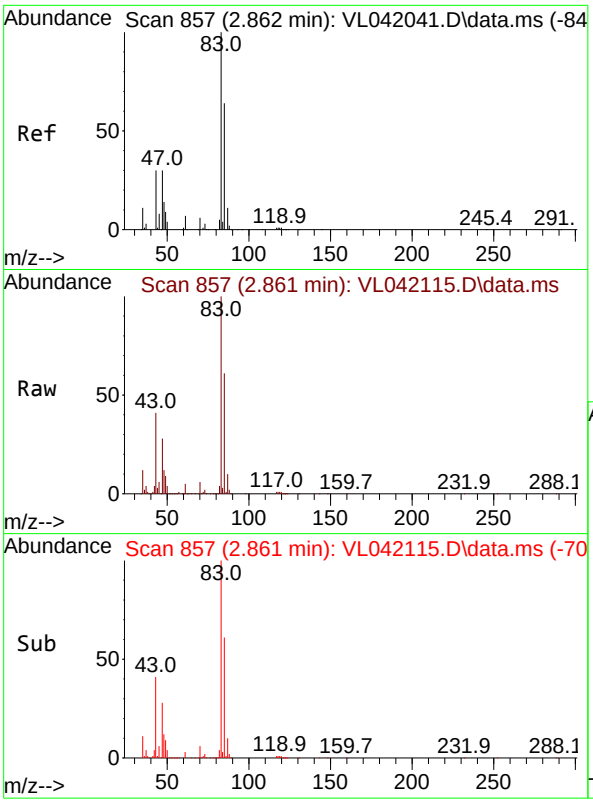


#28
Methyl tert-Butyl Ether
Concen: 10.593 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 73 Resp: 124414

Ion	Ratio	Lower	Upper
73	100		
57	24.2	17.7	26.5



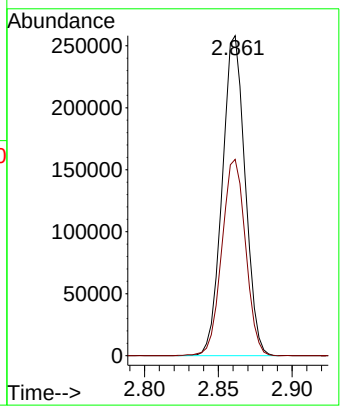


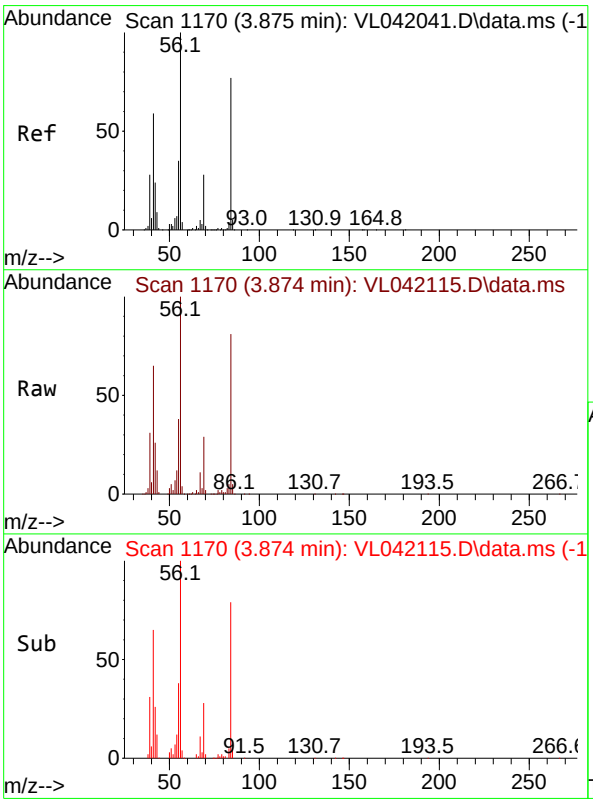
#29
Chloroform
Concen: 8.771 ppbv
RT: 2.861 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 278501

Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.2	76.8

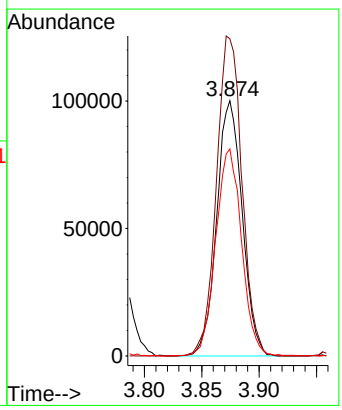


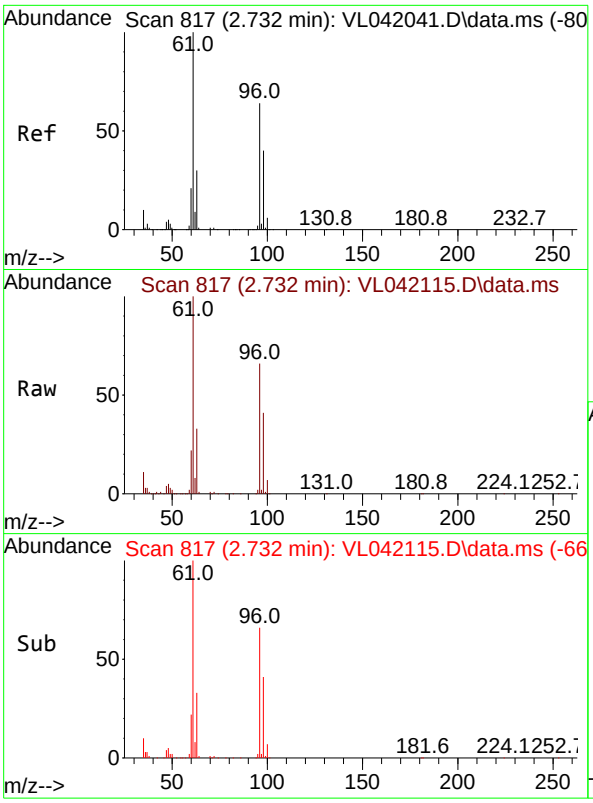


#30
Cyclohexane
Concen: 8.072 ppbv
RT: 3.874 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 84 Resp: 154573

Ion	Ratio	Lower	Upper
84	100		
56	125.8	101.5	152.3
41	82.4	62.6	93.8



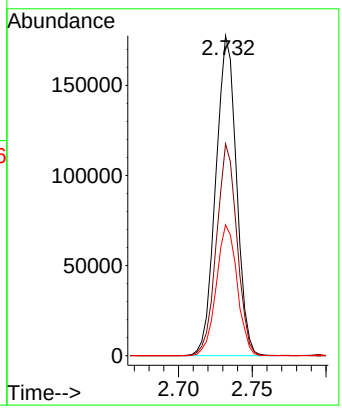


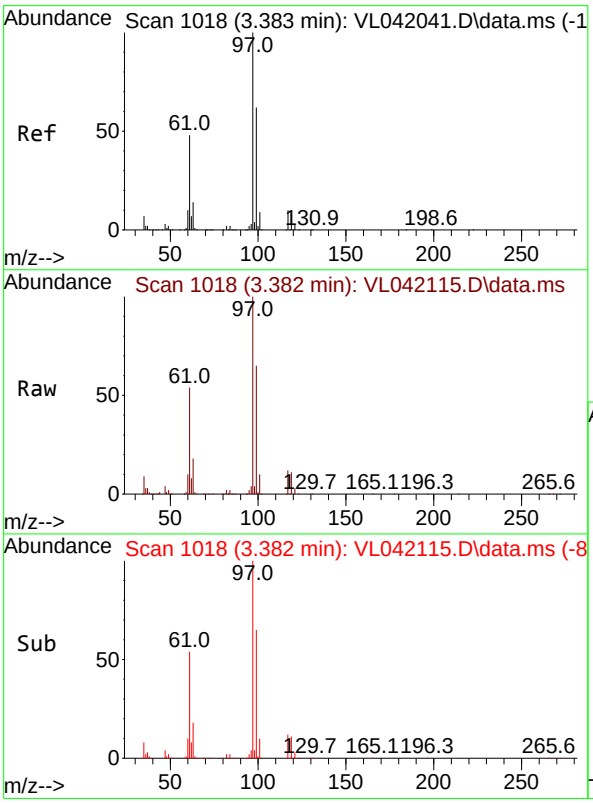
#31
cis-1,2-Dichloroethene
Concen: 7.774 ppbv
RT: 2.732 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 61 Resp: 173603

Ion	Ratio	Lower	Upper
61	100		
96	66.2	51.5	77.3
98	40.9	32.0	48.0

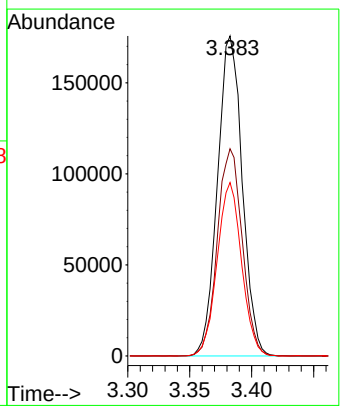


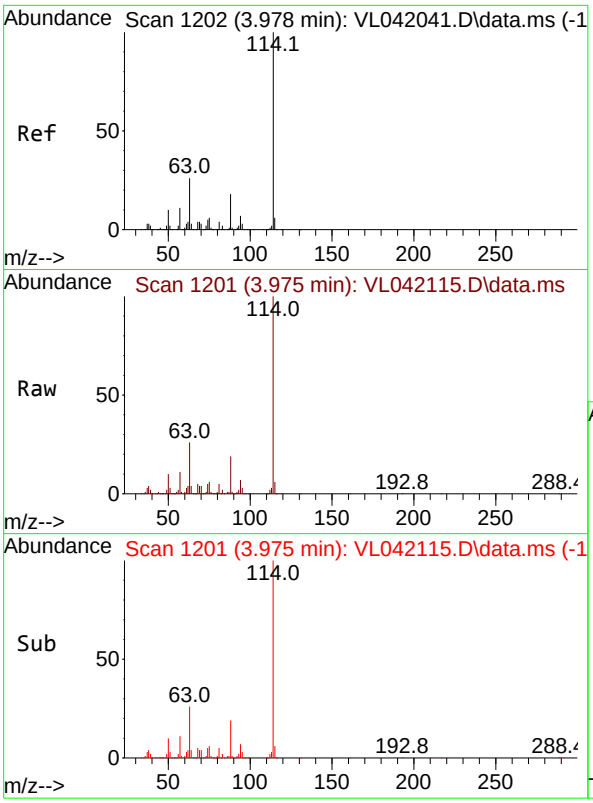


#32
1,1,1-Trichloroethane
Concen: 7.957 ppbv
RT: 3.382 min Scan# 1018
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 97 Resp: 245078

Ion	Ratio	Lower	Upper
97	100		
99	65.1	49.8	74.6
61	53.5	38.9	58.3



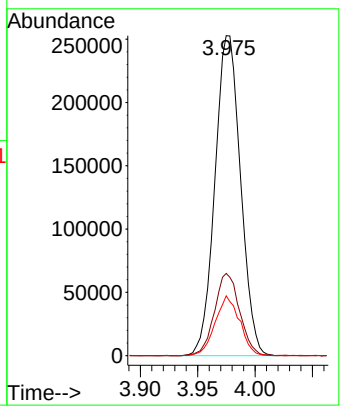


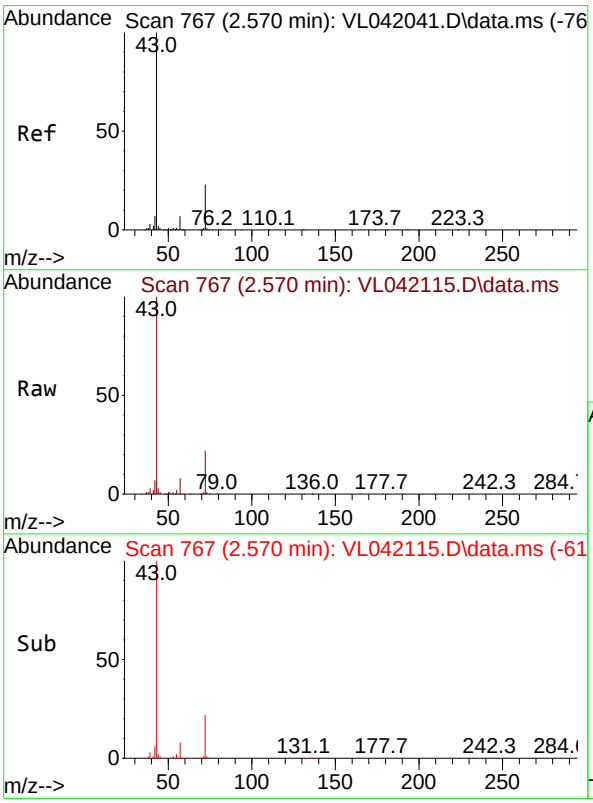
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:114 Resp: 392891

Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.1	30.1
88	17.8	14.3	21.5

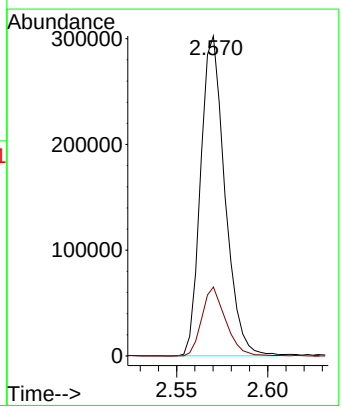


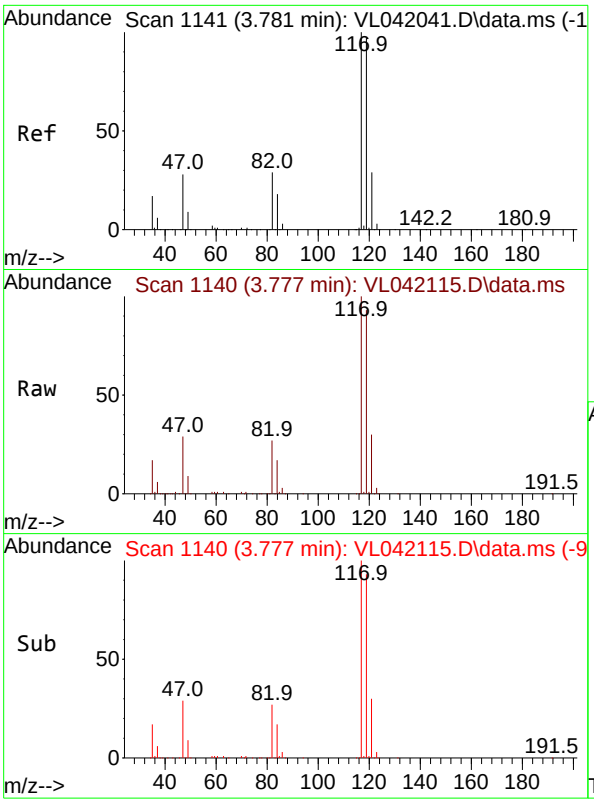


#34
2-Butanone
Concen: 9.161 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 43 Resp: 280396

Ion	Ratio	Lower	Upper
43	100		
72	21.2	18.5	27.7



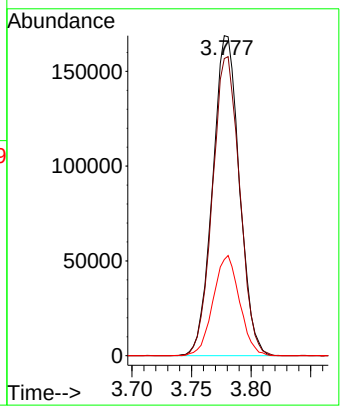


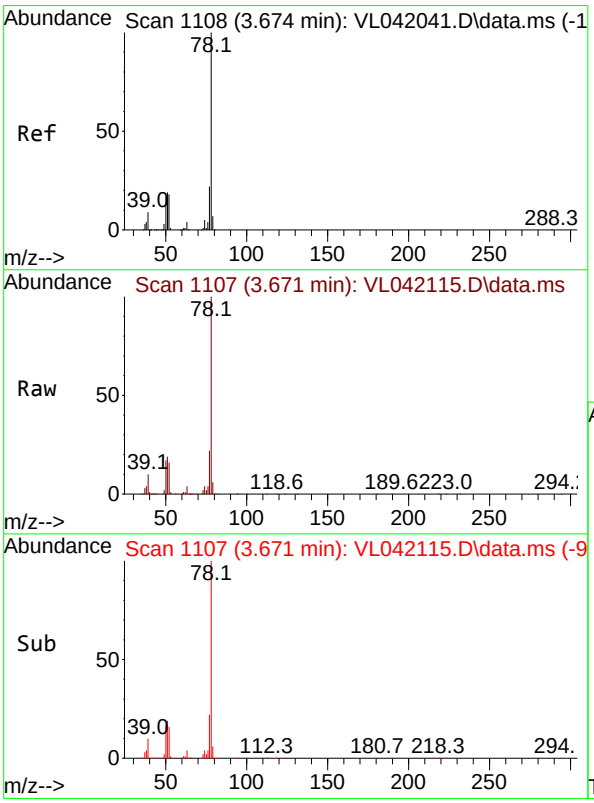
#35
Carbon Tetrachloride
Concen: 9.725 ppbv
RT: 3.777 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 263471

Ion	Ratio	Lower	Upper
117	100		
119	92.8	77.8	116.8
121	30.1	23.4	35.0

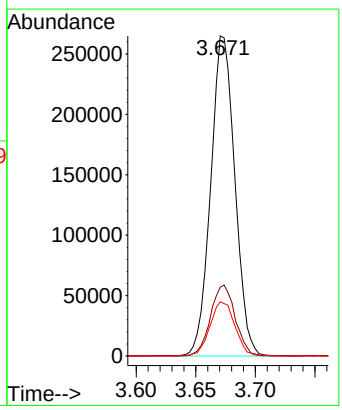


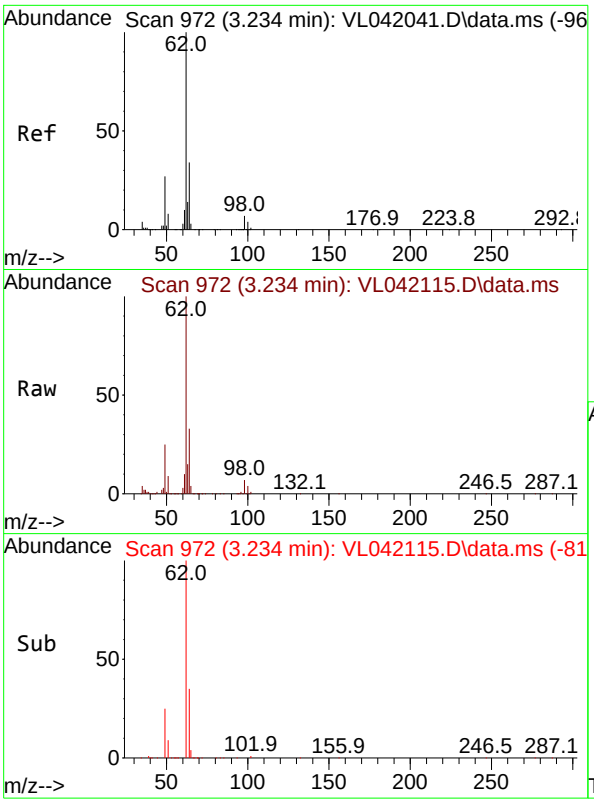


#36
Benzene
Concen: 9.084 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 78 Resp: 373628

Ion	Ratio	Lower	Upper
78	100		
77	21.5	17.7	26.5
50	17.0	13.9	20.9



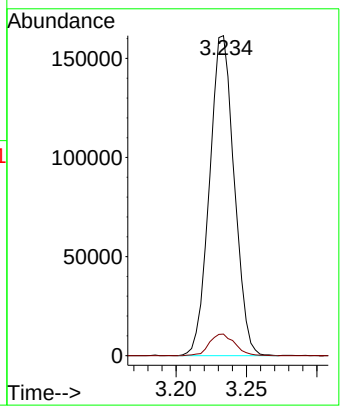


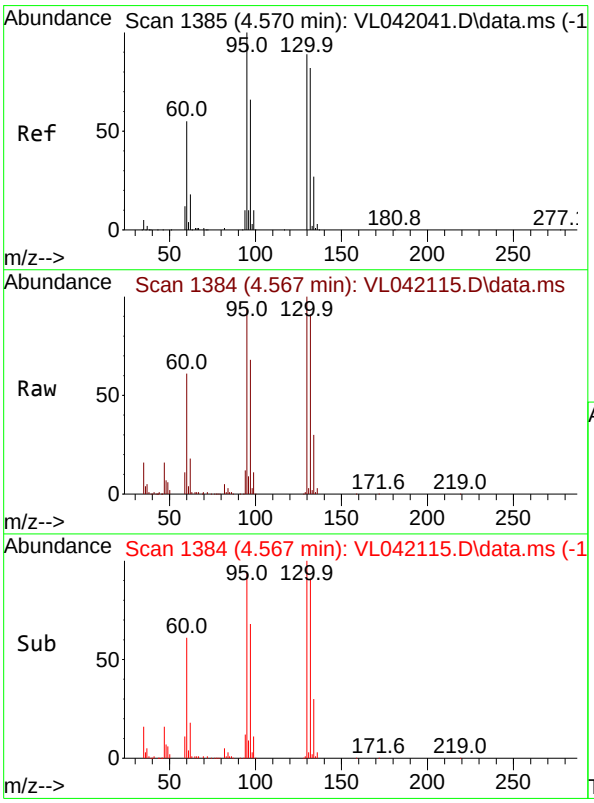
#37
1,2-Dichloroethane
Concen: 8.665 ppbv
RT: 3.234 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 197592

Ion	Ratio	Lower	Upper
62	100		
98	7.0	5.7	8.5

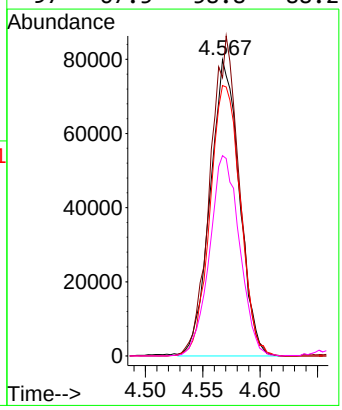


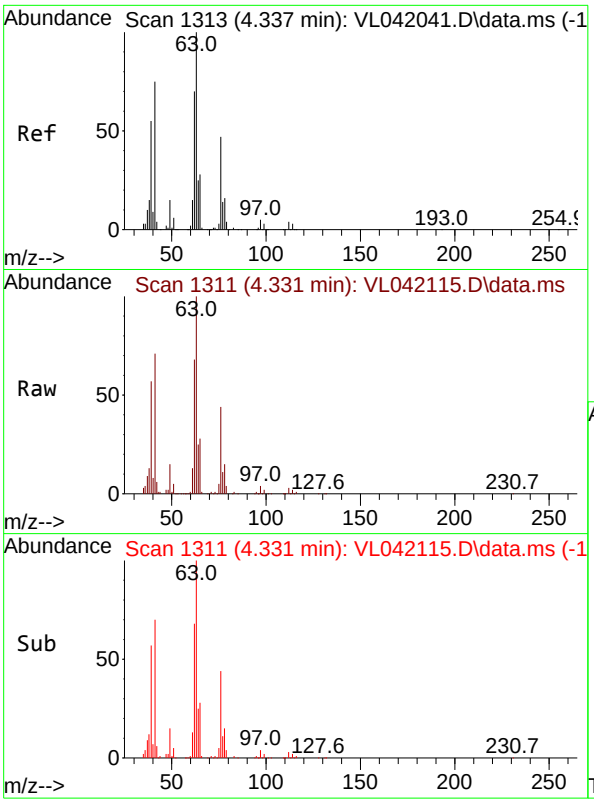


#38
Trichloroethene
Concen: 8.419 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:130 Resp: 141399

Ion	Ratio	Lower	Upper
130	100		
95	93.7	89.5	134.3
132	91.2	73.8	110.6
97	67.5	58.8	88.2



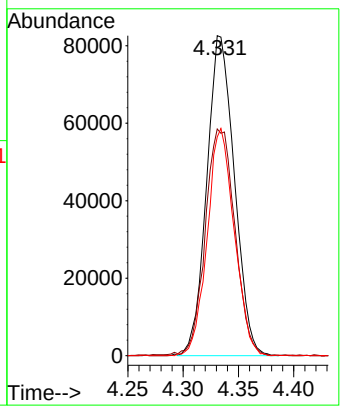


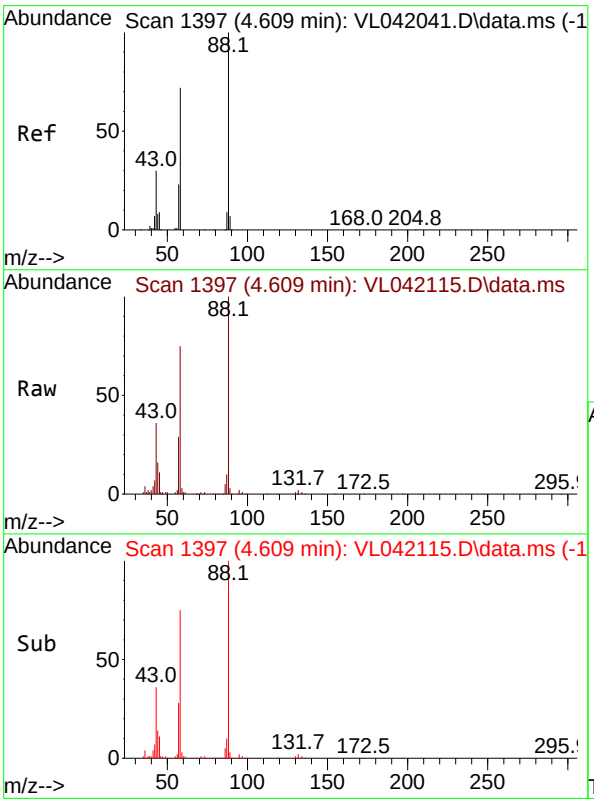
#39
1,2-Dichloropropane
Concen: 9.199 ppbv
RT: 4.331 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 63 Resp: 143609

Ion	Ratio	Lower	Upper
63	100		
41	70.7	60.1	90.1
62	68.2	55.8	83.8

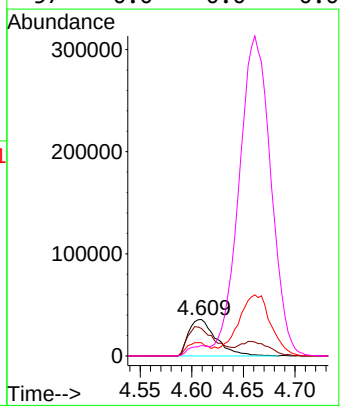


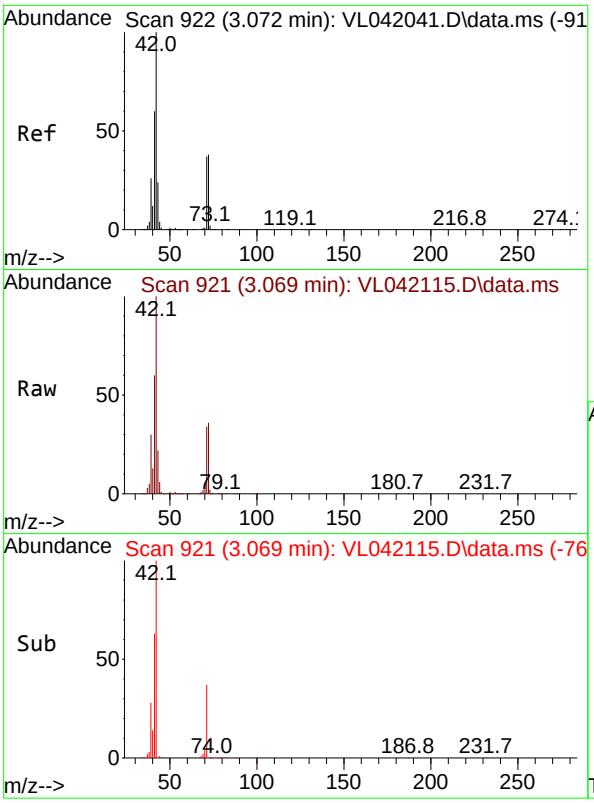


#40
1,4-Dioxane
Concen: 9.311 ppbv
RT: 4.609 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 88 Resp: 66354

Ion	Ratio	Lower	Upper
88	100		
58	80.5	62.6	94.0
43	28.7	0.0	0.0#
57	0.0	0.0	0.0



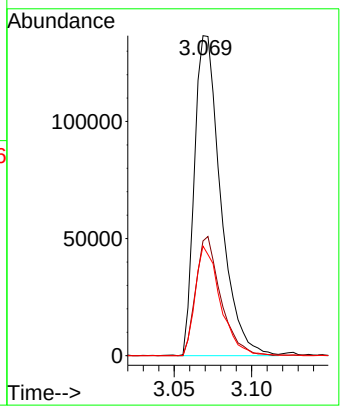


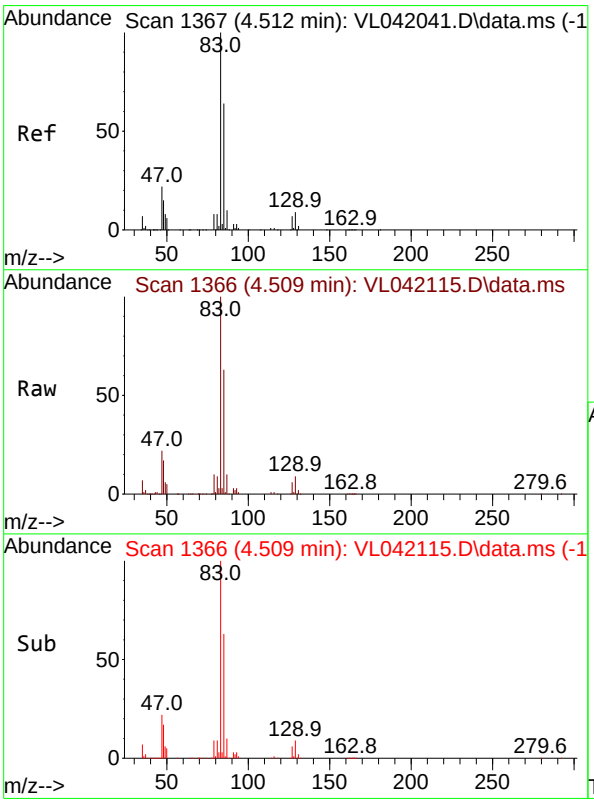
#41
Tetrahydrofuran
Concen: 8.893 ppbv
RT: 3.069 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 42 Resp: 160836

Ion	Ratio	Lower	Upper
42	100		
72	35.5	30.2	45.2
71	33.0	28.2	42.4

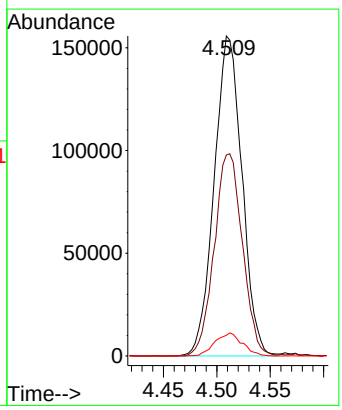


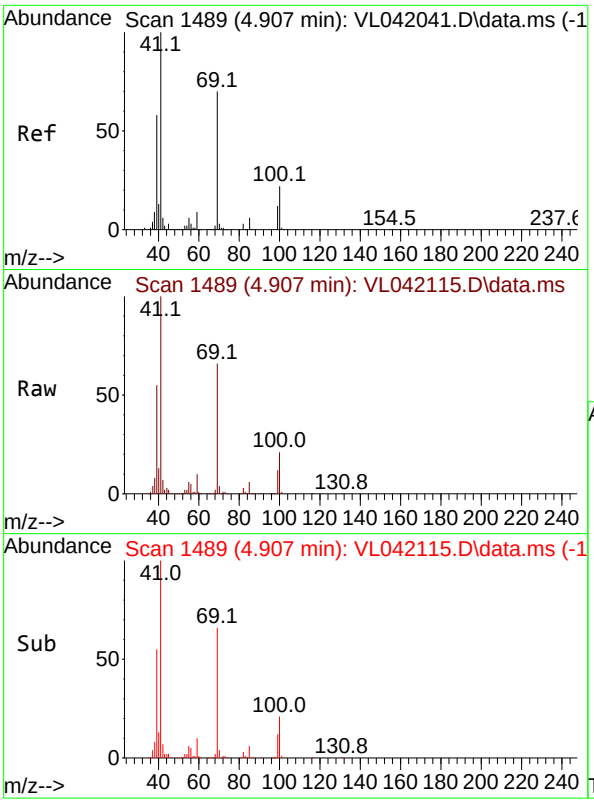


#42
Bromodichloromethane
Concen: 9.180 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 83 Resp: 282060

Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.4	77.2
127	6.5	5.8	8.6



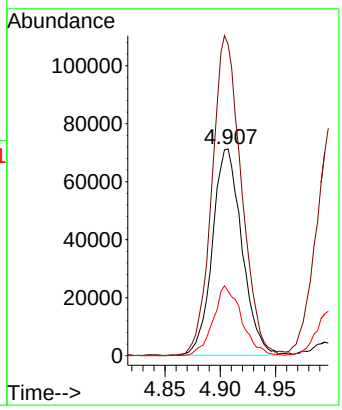


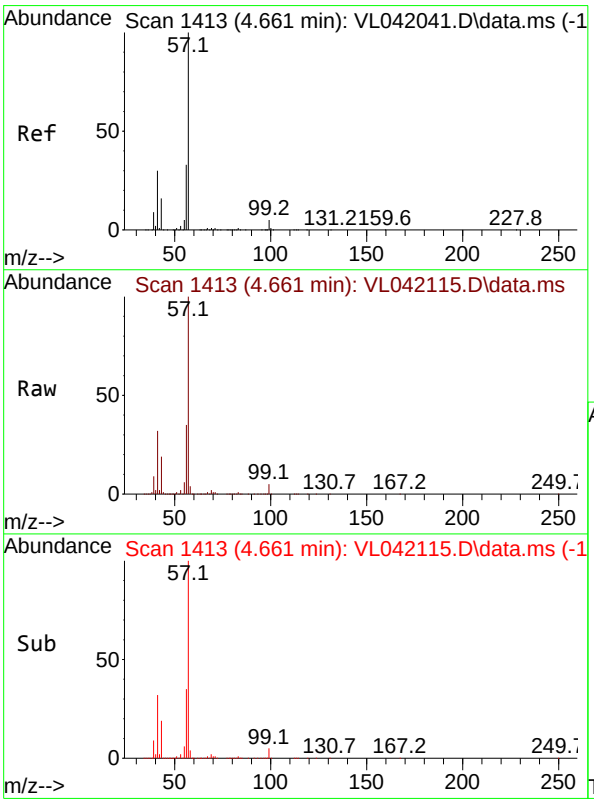
#43
Methyl Methacrylate
Concen: 8.207 ppbv
RT: 4.907 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 131818

Ion	Ratio	Lower	Upper
69	100		
41	155.0	118.2	177.4
100	32.8	27.0	40.4

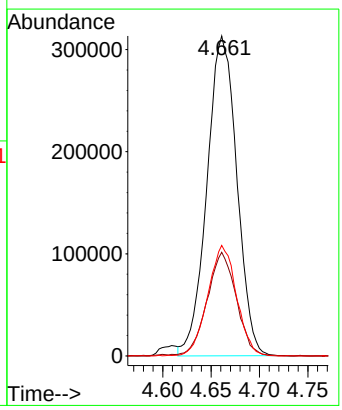


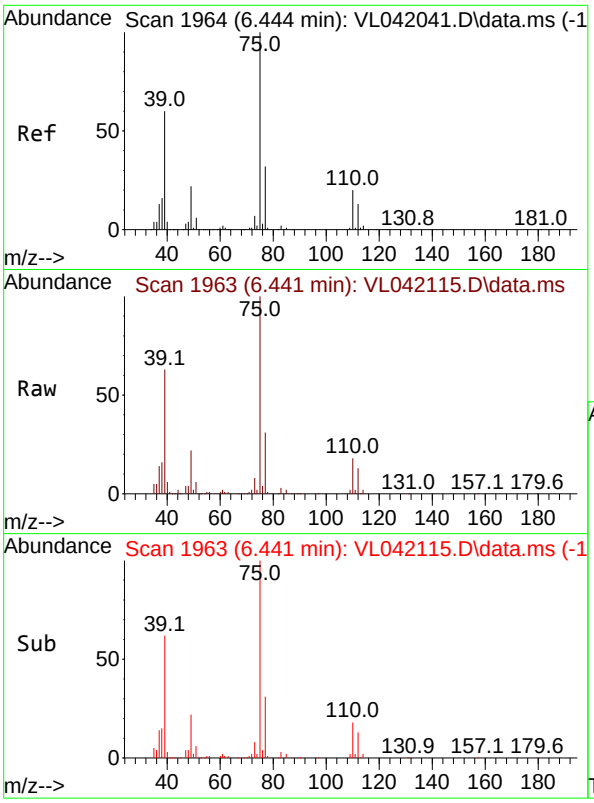


#44
2,2,4-Trimethylpentane
Concen: 9.271 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 57 Resp: 672958

Ion	Ratio	Lower	Upper
57	100		
41	32.1	24.4	36.6
56	33.4	26.5	39.7



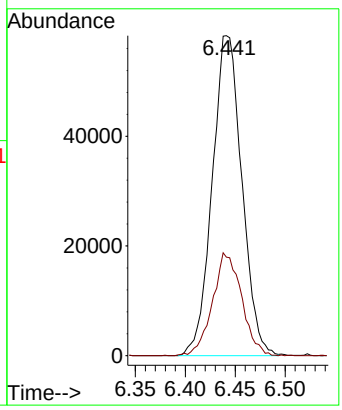


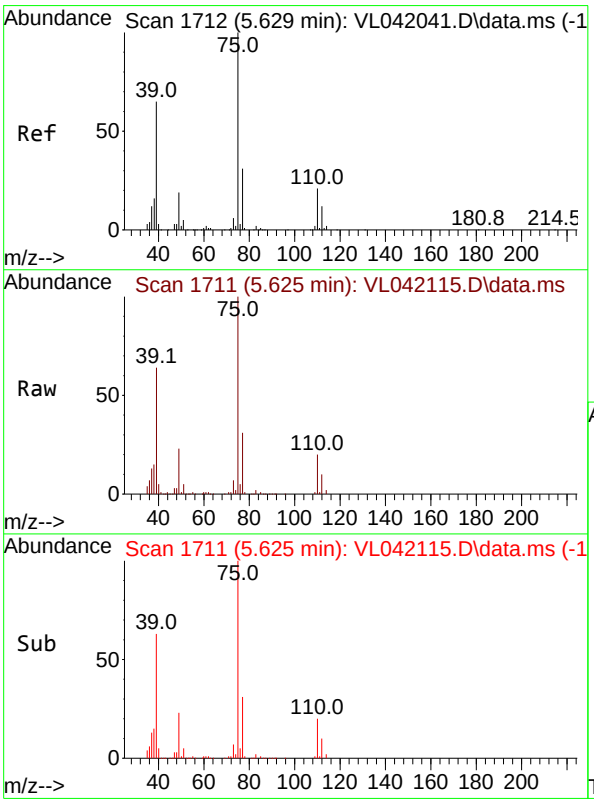
#45
t-1,3-Dichloropropene
Concen: 7.547 ppbv
RT: 6.441 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 120441

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.9	38.9

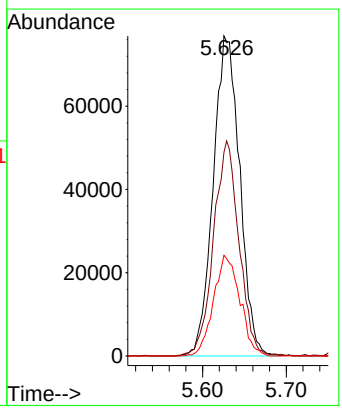


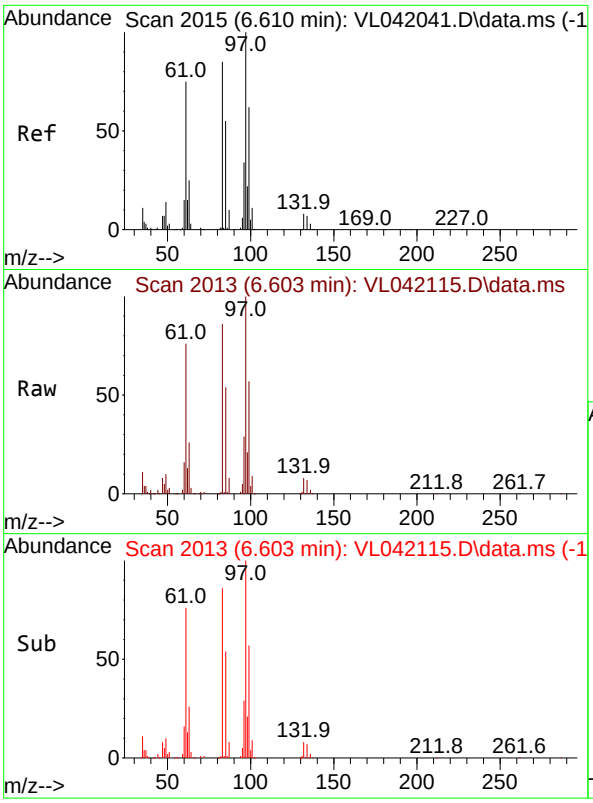


#46
cis-1,3-Dichloropropene
Concen: 8.174 ppbv
RT: 5.625 min Scan# 1711
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 75 Resp: 168796

Ion	Ratio	Lower	Upper
75	100		
39	63.4	51.9	77.9
77	31.4	24.9	37.3



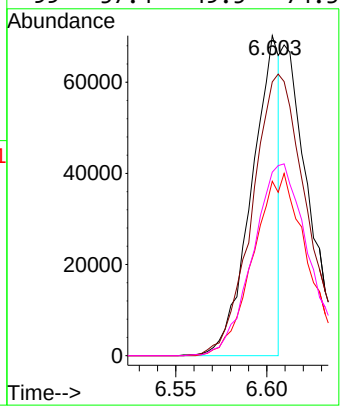


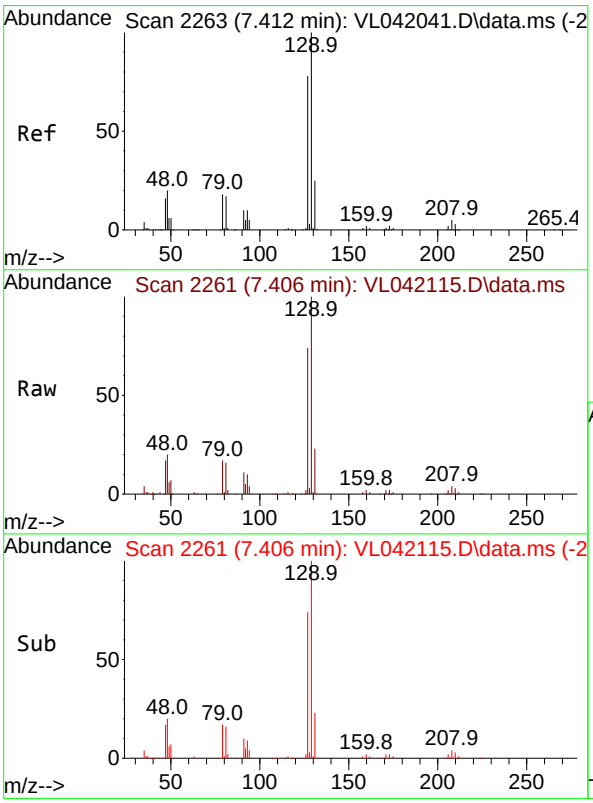
#47
1,1,2-Trichloroethane
Concen: 4.706 ppbv
RT: 6.603 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 97 Resp: 74588

Ion	Ratio	Lower	Upper
97	100		
83	85.6	68.1	102.1
85	54.5	44.0	66.0
99	57.4	49.5	74.3

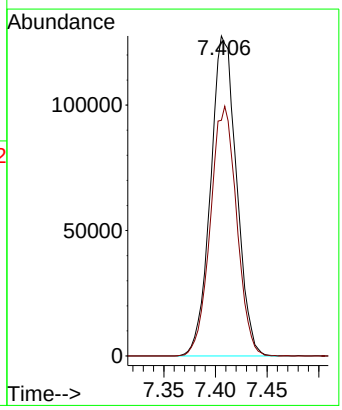


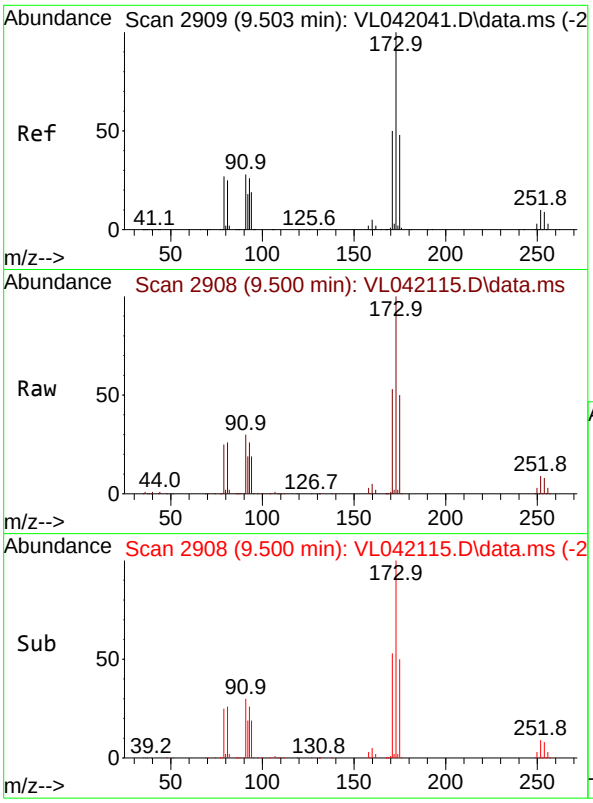


#48
Dibromochloromethane
Concen: 9.006 ppbv
RT: 7.406 min Scan# 2261
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:129 Resp: 223556

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.6	115.8



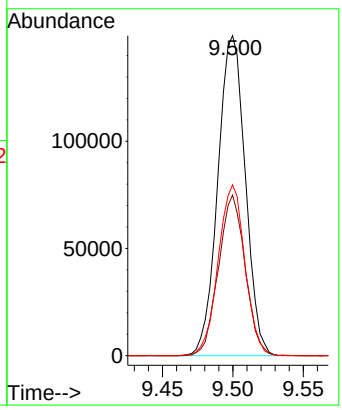


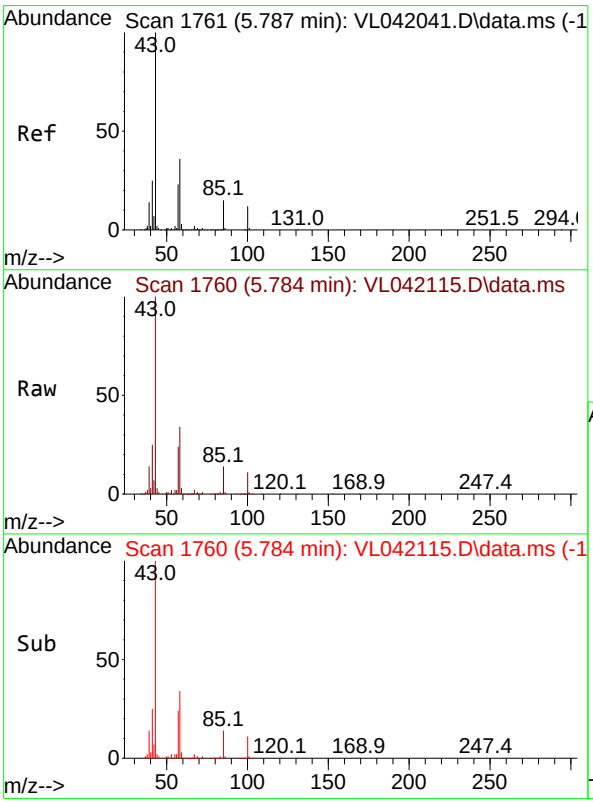
#49
Bromoform
Concen: 9.404 ppbv
RT: 9.500 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 202719

Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.3	57.5
171	52.1	40.2	60.2

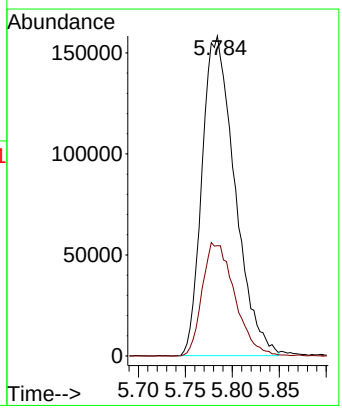


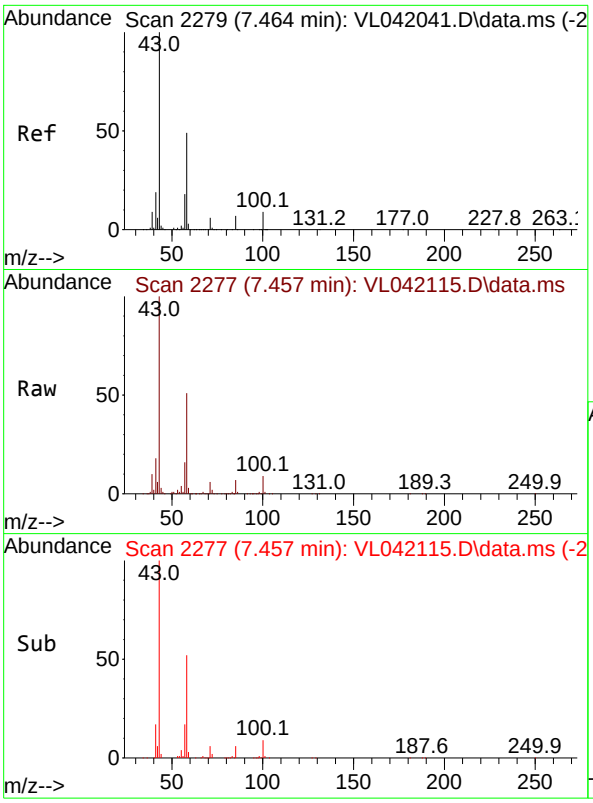


#50
4-Methyl-2-Pentanone
Concen: 9.703 ppbv
RT: 5.784 min Scan# 1760
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 43 Resp: 384115

Ion	Ratio	Lower	Upper
43	100		
58	35.2	29.3	43.9



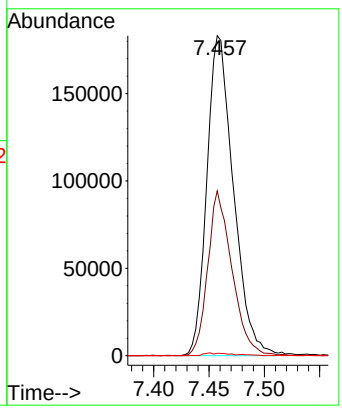


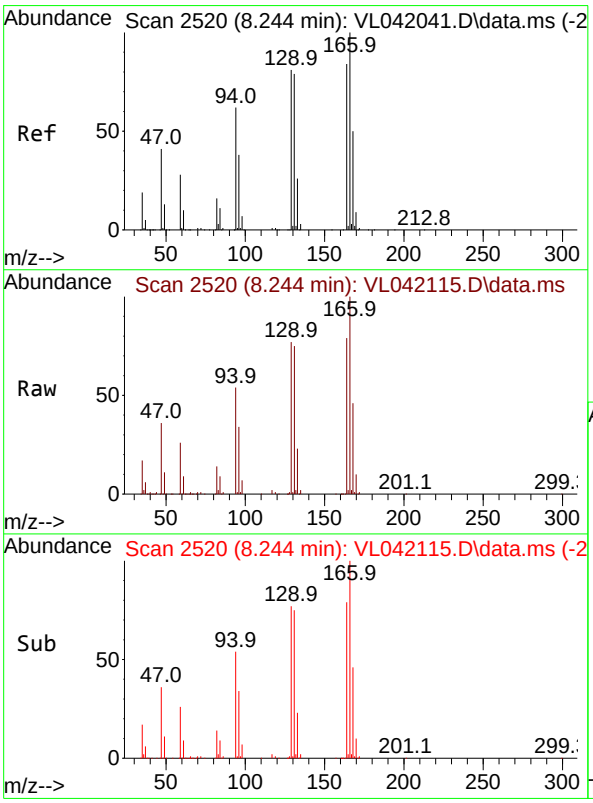
#51
2-Hexanone
Concen: 11.208 ppbv
RT: 7.457 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 305375

Ion	Ratio	Lower	Upper
43	100		
58	47.2	39.0	58.6
98	1.0	0.1	0.1#

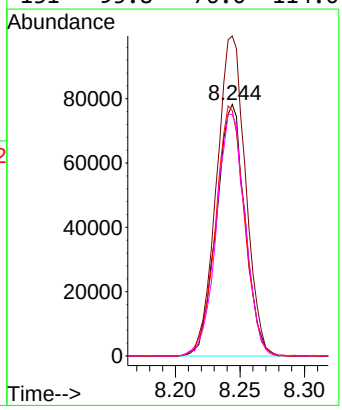


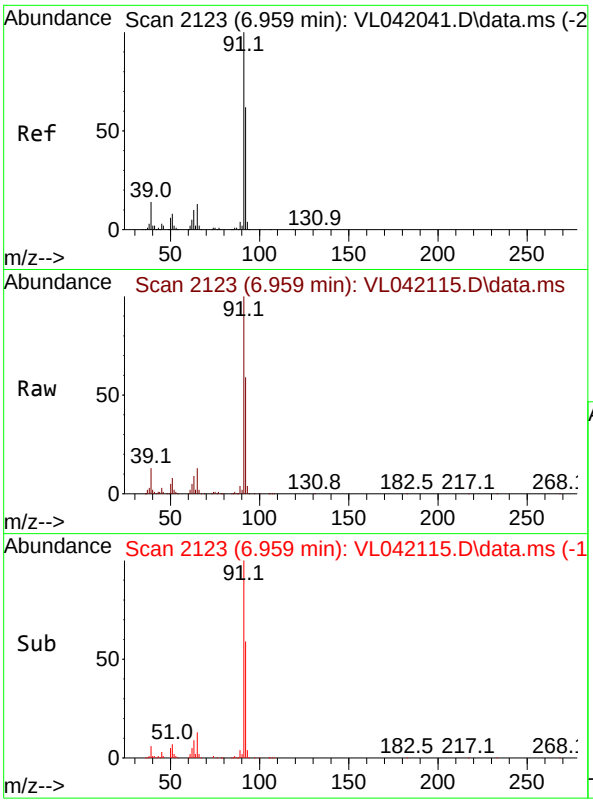


#52
Tetrachloroethene
Concen: 8.529 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:164 Resp: 120090

Ion	Ratio	Lower	Upper
164	100		
166	127.3	95.7	143.5
129	97.6	77.1	115.7
131	95.8	76.0	114.0



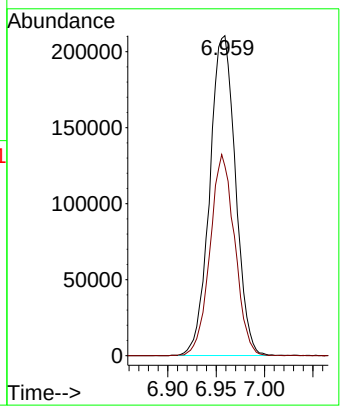


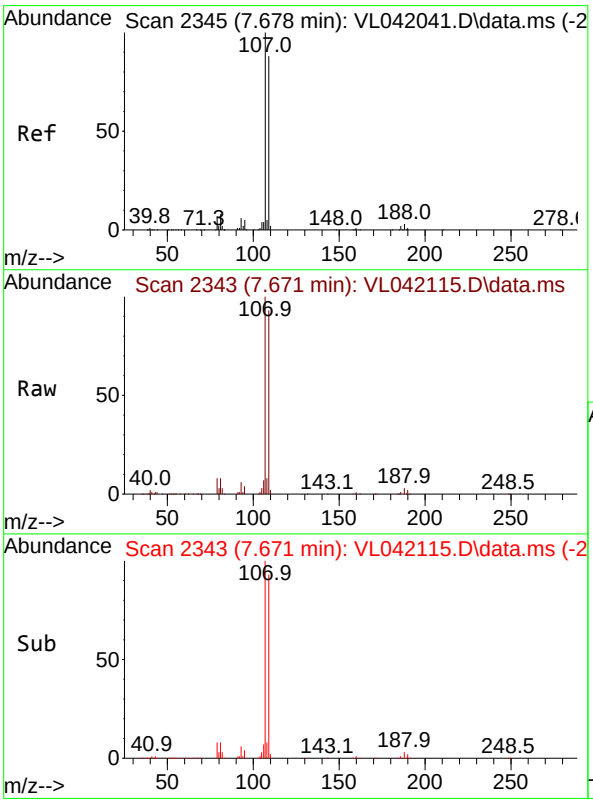
#53
Toluene
Concen: 8.453 ppbv
RT: 6.959 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 388571

Ion	Ratio	Lower	Upper
91	100		
92	60.5	49.0	73.6

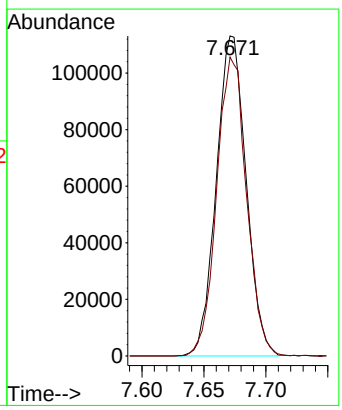


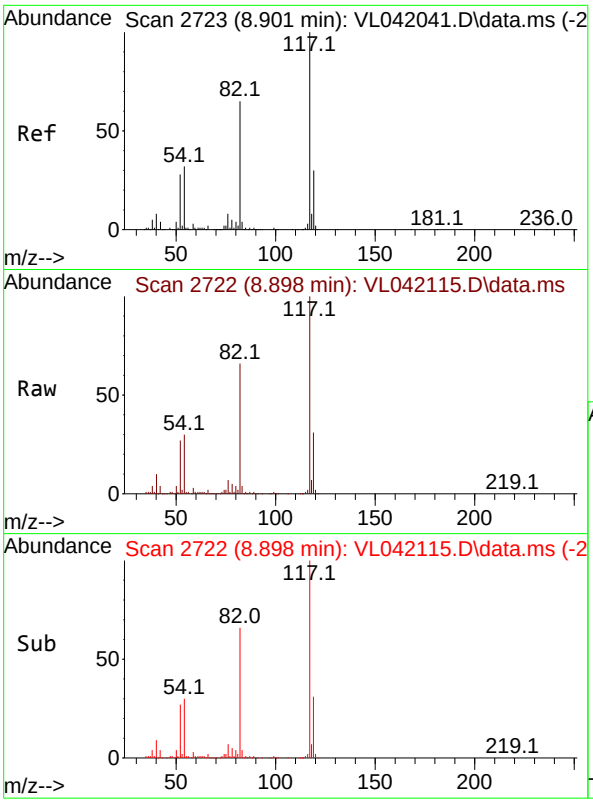


#54
1,2-Dibromoethane
Concen: 8.851 ppbv
RT: 7.671 min Scan# 2343
Delta R.T. -0.007 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:107 Resp: 189652

Ion	Ratio	Lower	Upper
107	100		
109	93.3	70.2	105.4



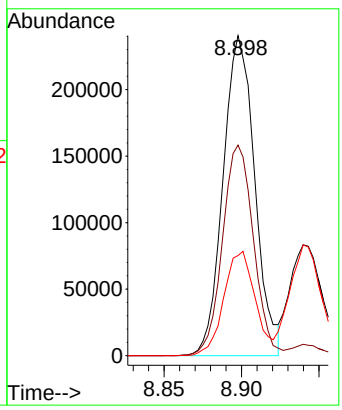


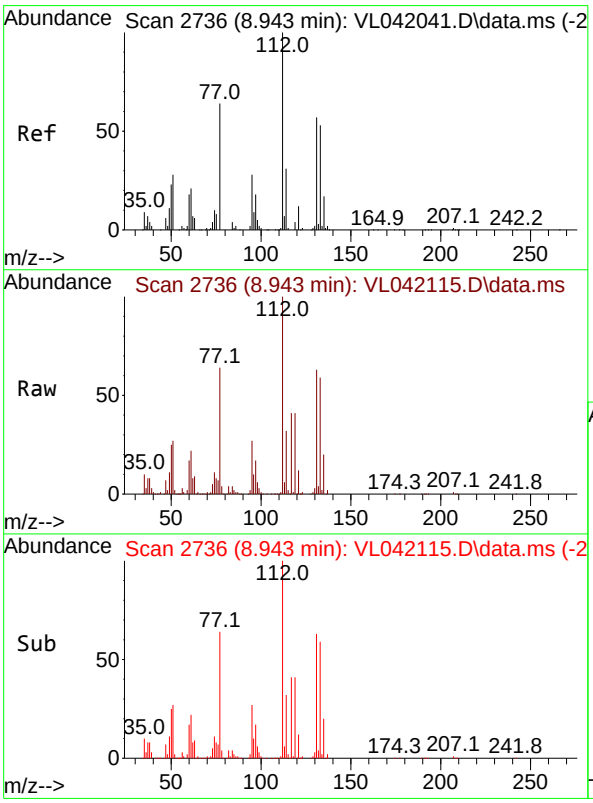
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 342991

Ion	Ratio	Lower	Upper
117	100		
82	67.6	55.0	82.6
119	31.7	25.9	38.9

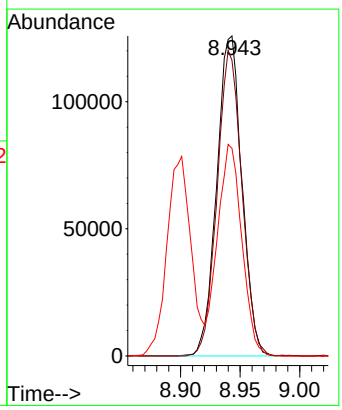


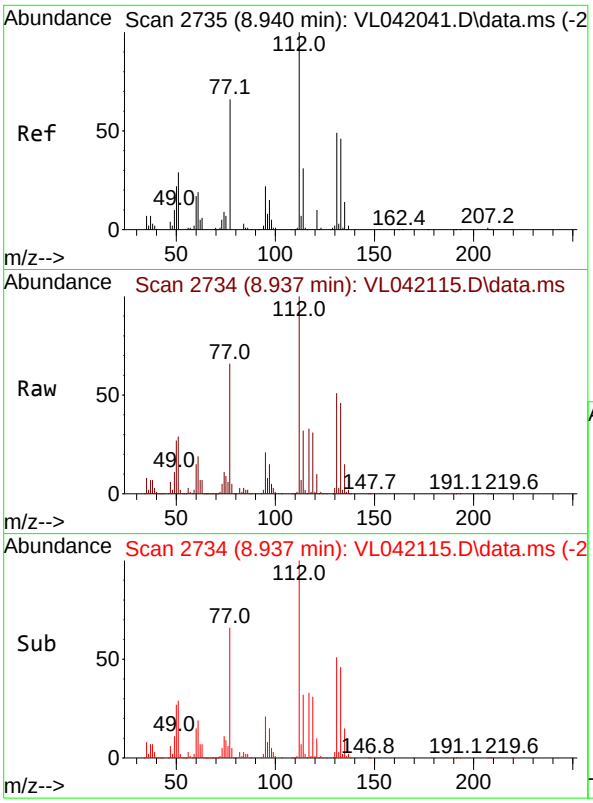


#56
1,1,1,2-Tetrachloroethane
Concen: 9.542 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:131 Resp: 184992

Ion	Ratio	Lower	Upper
131	100		
133	93.8	75.8	113.8
119	65.0	52.1	78.1



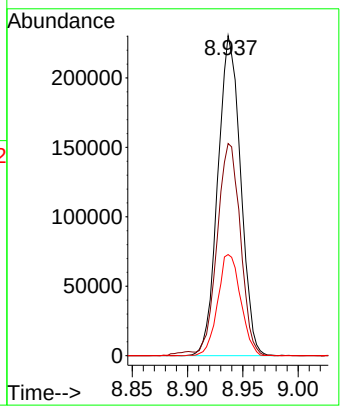


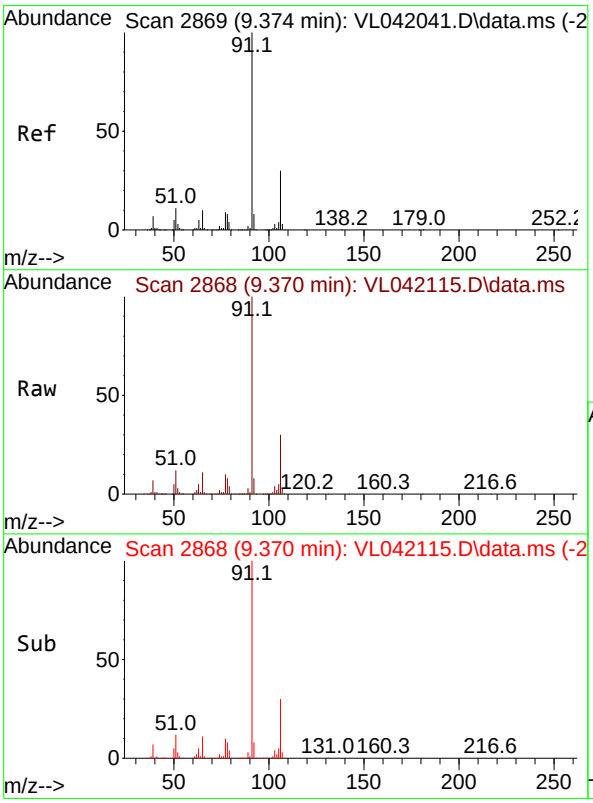
#57
Chlorobenzene
Concen: 9.281 ppbv
RT: 8.937 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:112 Resp: 330038

Ion	Ratio	Lower	Upper
112	100		
77	66.3	53.4	80.2
114	31.6	28.3	34.5

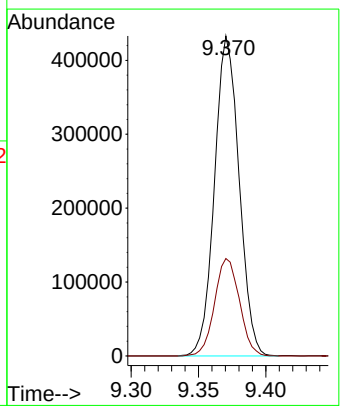


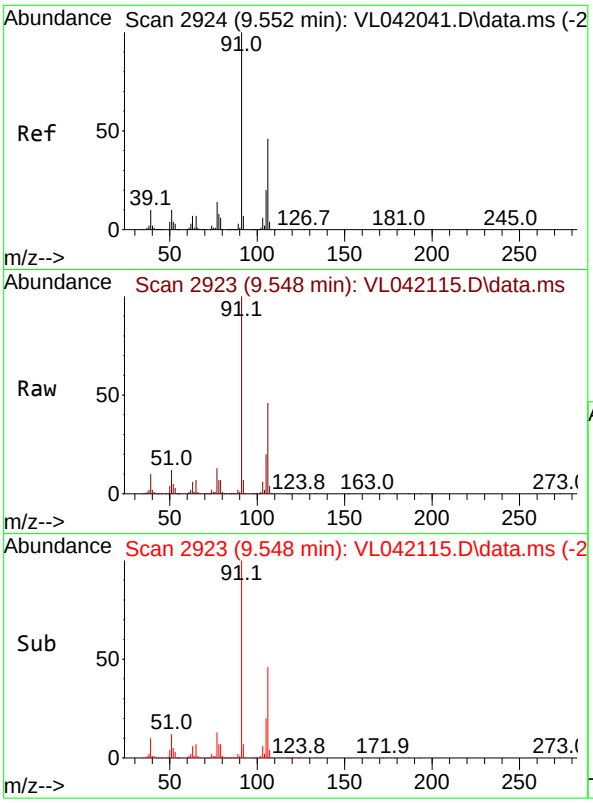


#58
Ethyl Benzene
Concen: 8.698 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 549396

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.2	36.2



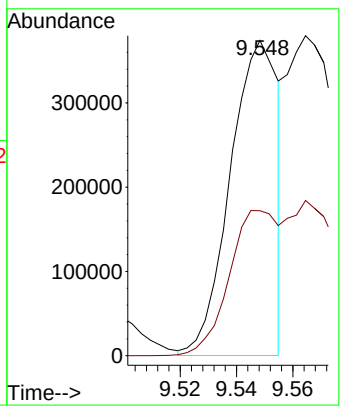


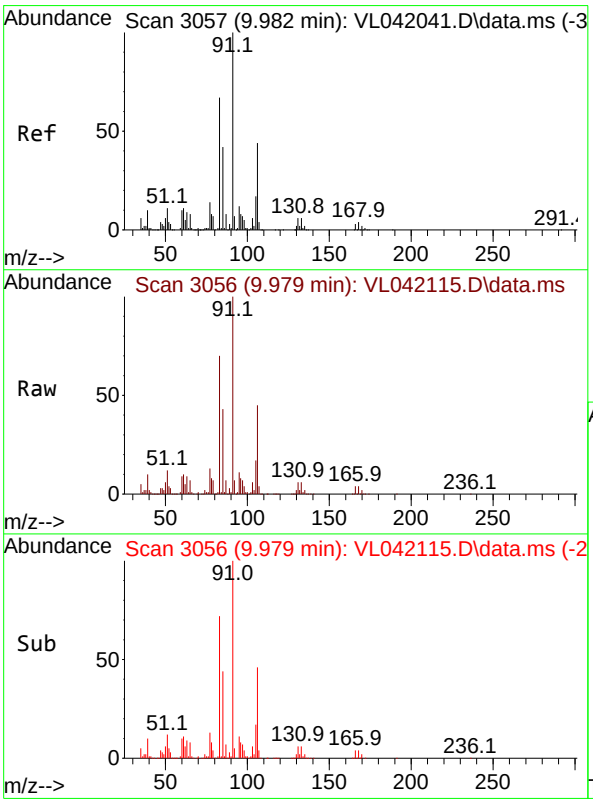
#59
m/p-Xylene
Concen: 8.718 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 438243

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

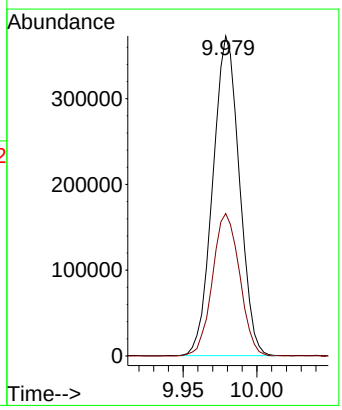


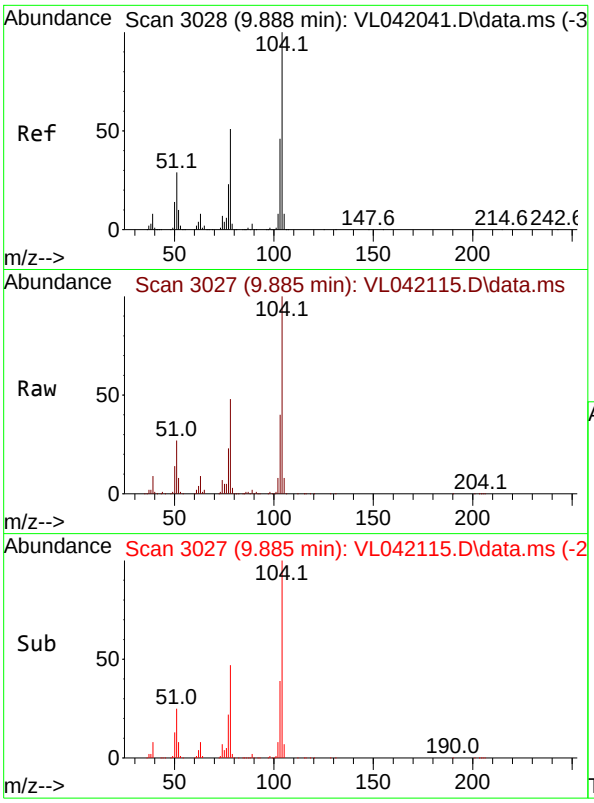


#60
o-Xylene
Concen: 9.232 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 466520

Ion	Ratio	Lower	Upper
91	100		
106	45.7	22.3	66.8



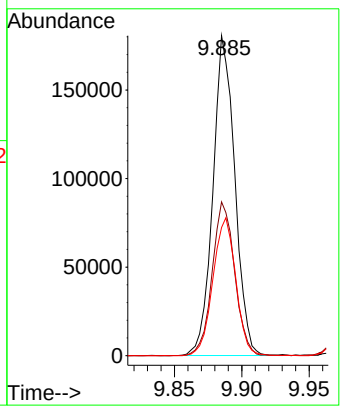


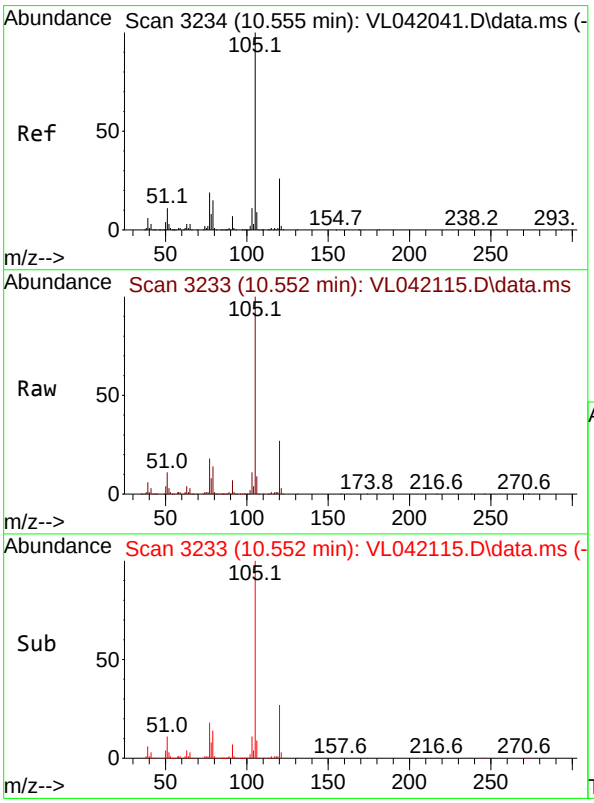
#61
Styrene
Concen: 8.590 ppbv
RT: 9.885 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 204092

Ion	Ratio	Lower	Upper
104	100		
78	49.3	41.0	61.4
103	45.1	37.0	55.6

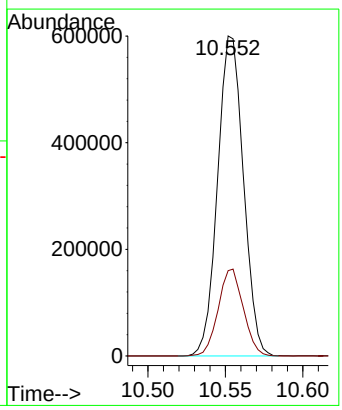


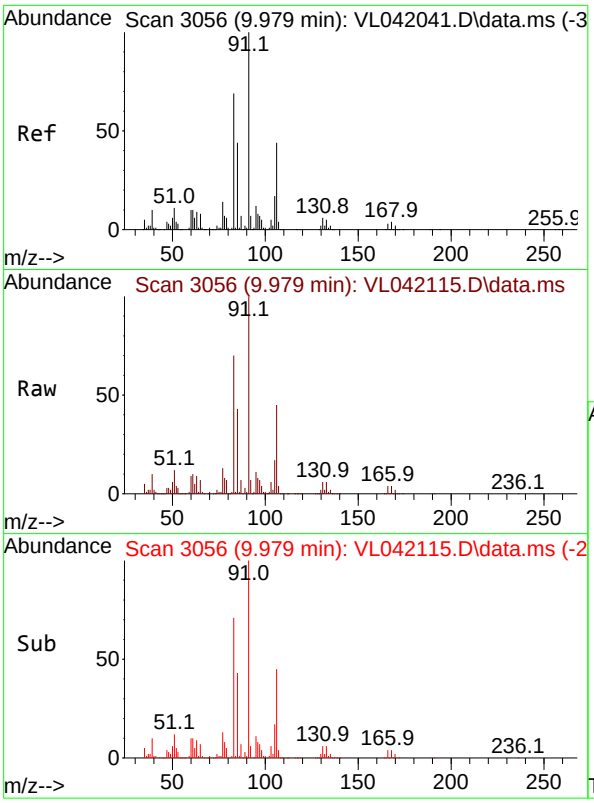


#62
Isopropylbenzene
Concen: 9.198 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:105 Resp: 696113

Ion	Ratio	Lower	Upper
105	100		
120	26.3	20.7	31.1



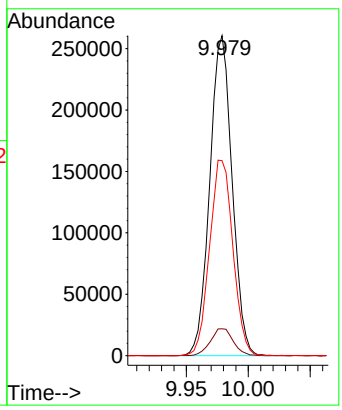


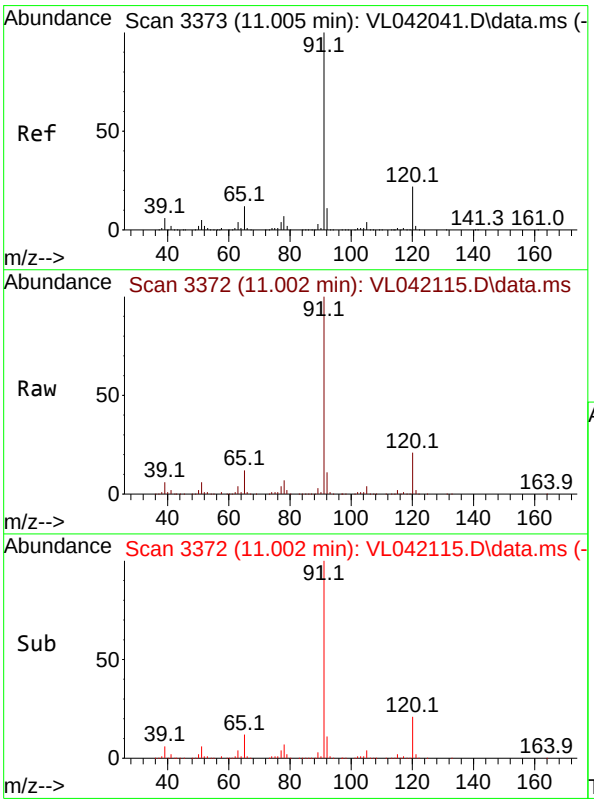
#63
1,1,2,2-Tetrachloroethane
Concen: 9.844 ppbv
RT: 9.979 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 327603

Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.5	13.7
85	63.8	32.1	96.3

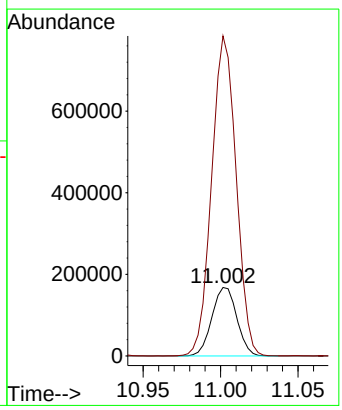


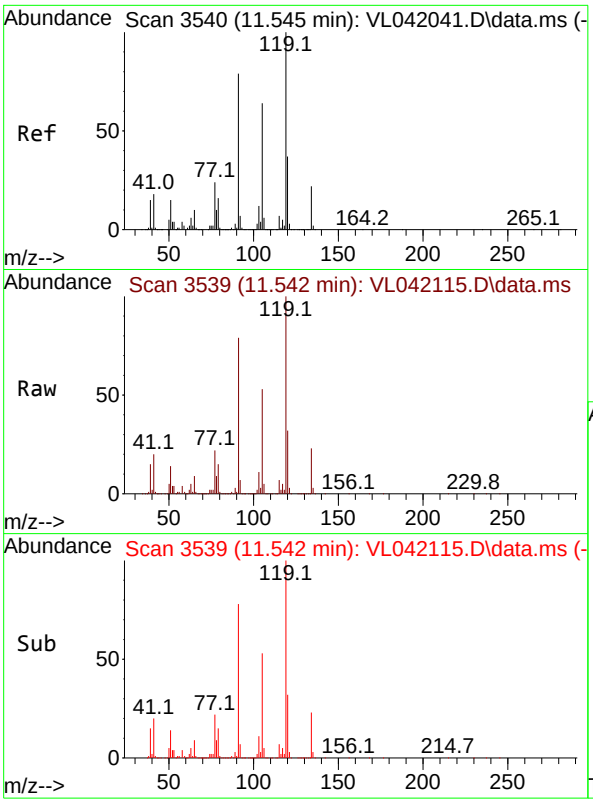


#64
n-propylbenzene
Concen: 9.455 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:120 Resp: 187705

Ion	Ratio	Lower	Upper
120	100		
91	459.8	370.6	556.0



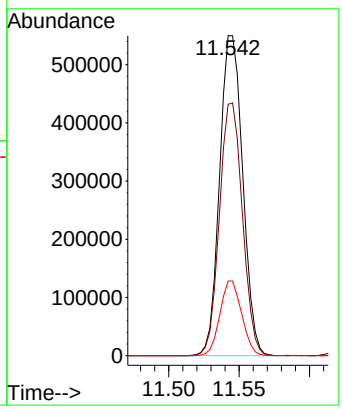


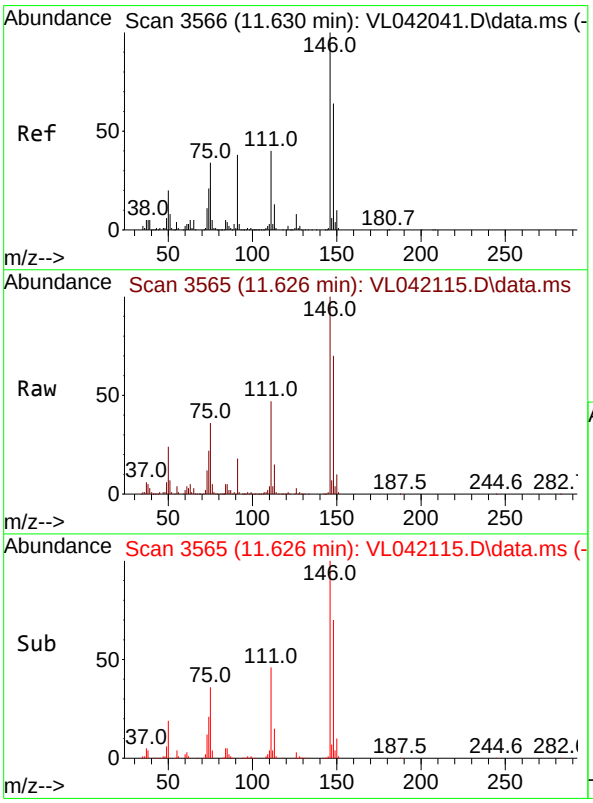
#65
tert-Butylbenzene
Concen: 9.108 ppbv
RT: 11.542 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 627319

Ion	Ratio	Lower	Upper
119	100		
91	78.7	64.2	96.2
134	22.0	17.4	26.2

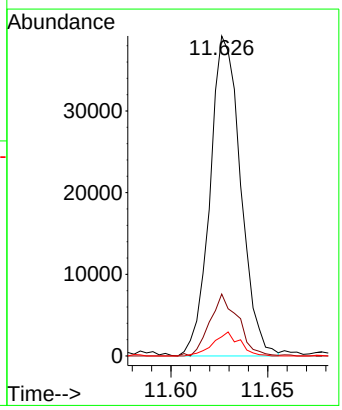


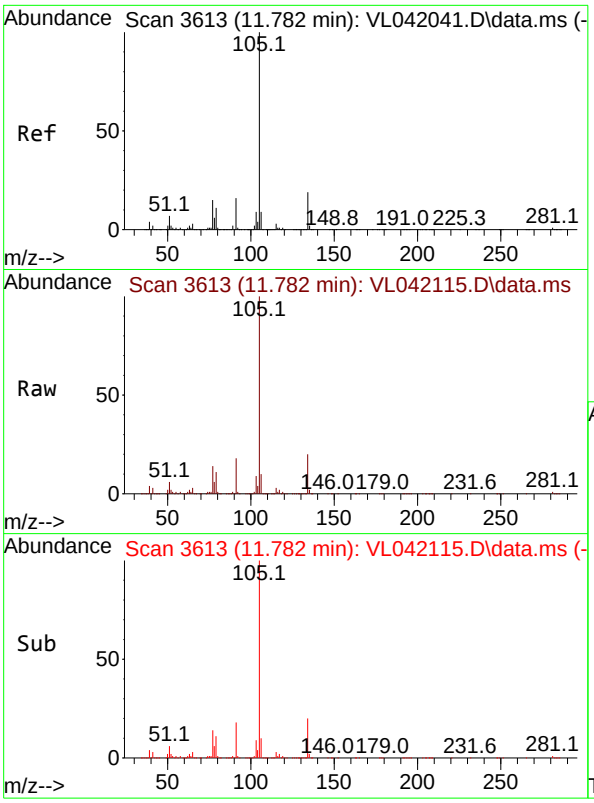


#66
Benzyl Chloride
Concen: 8.200 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 43097

Ion	Ratio	Lower	Upper
91	100		
126	18.1	14.5	21.7
128	6.5	5.4	8.2



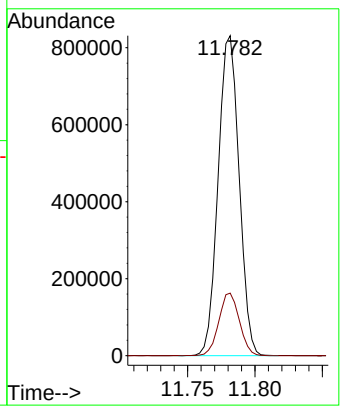


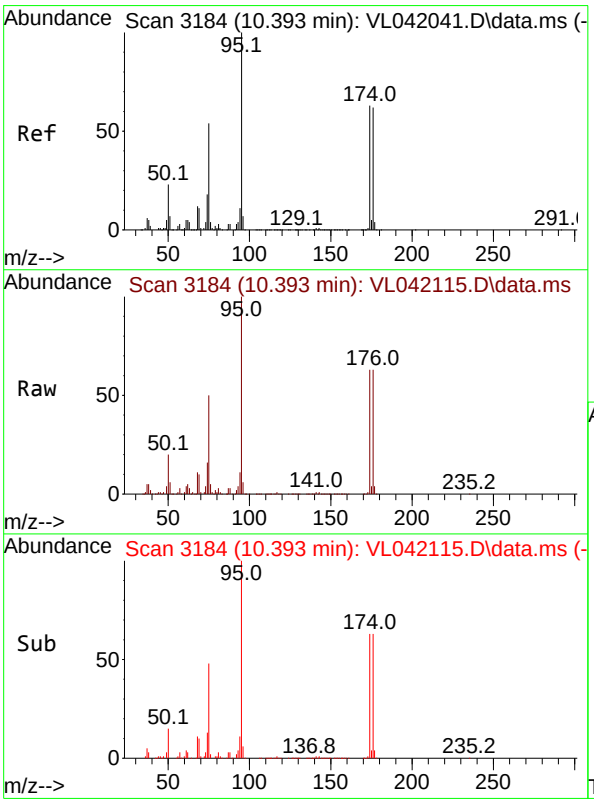
#67
sec-Butylbenzene
Concen: 9.132 ppbv
RT: 11.782 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 899556

Ion	Ratio	Lower	Upper
105	100		
134	19.2	14.9	22.3

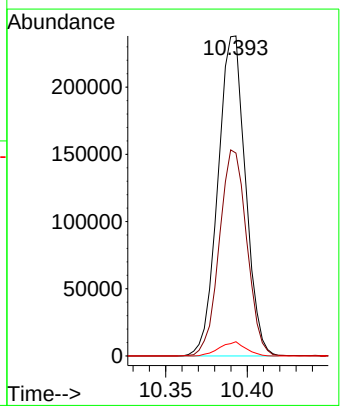


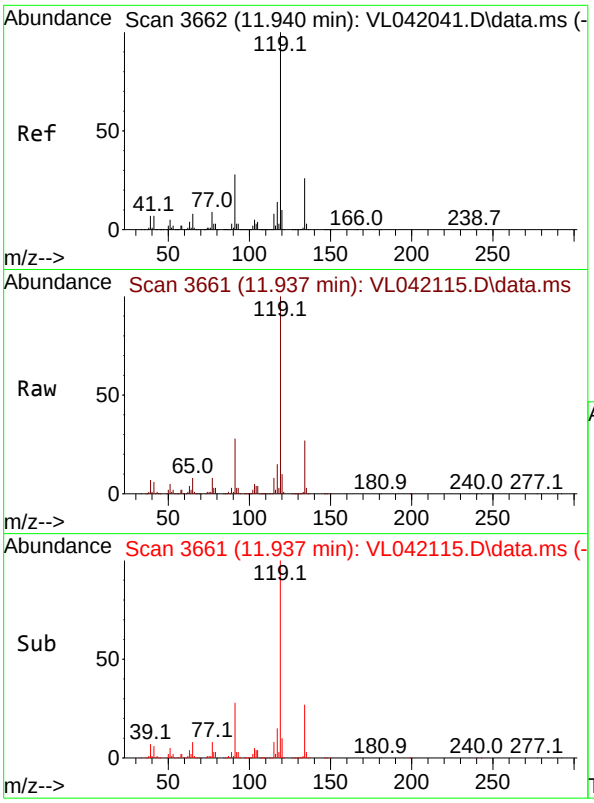


#68
1-Bromo-4-Fluorobenzene
Concen: 10.591 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 95 Resp: 279482

Ion	Ratio	Lower	Upper
95	100		
174	64.2	51.8	77.6
175	4.2	3.9	5.9



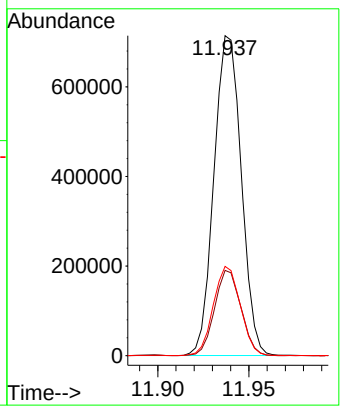


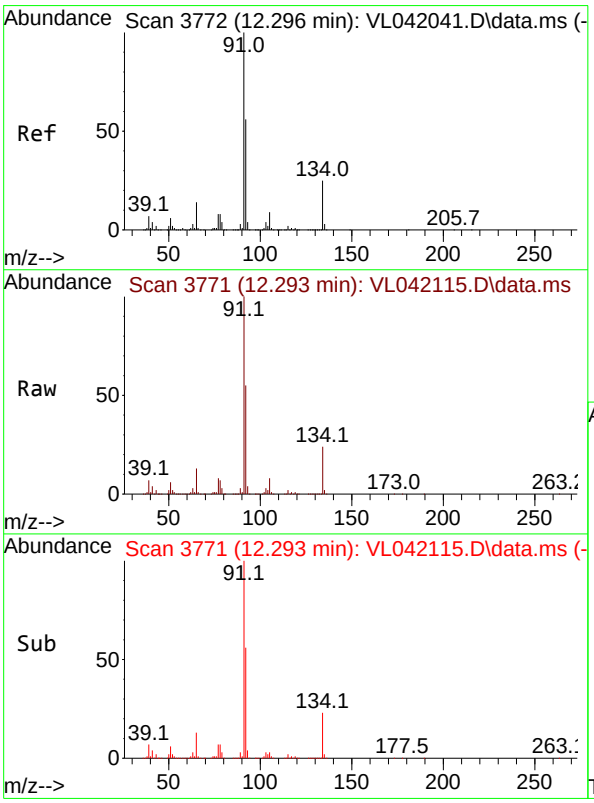
#69
p-Isopropyltoluene
Concen: 9.494 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 744068

Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.9	31.3
91	27.7	23.1	34.7

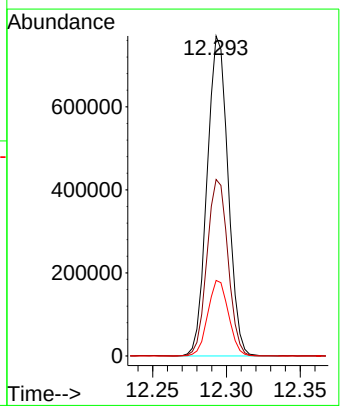


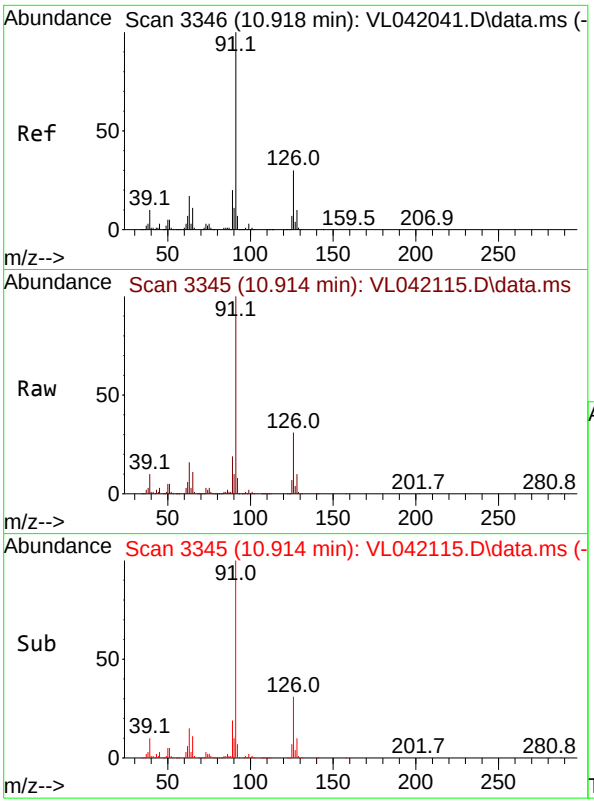


#70
n-Butylbenzene
Concen: 9.499 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion: 91 Resp: 759905

Ion	Ratio	Lower	Upper
91	100		
92	55.4	44.7	67.1
134	23.3	18.9	28.3



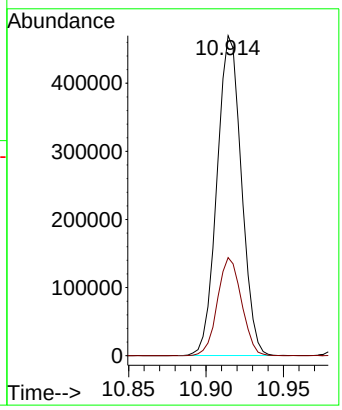


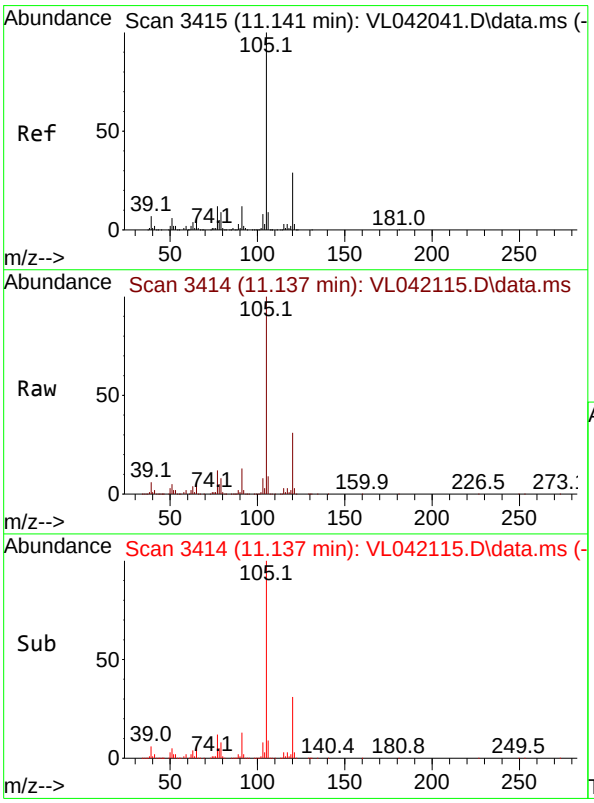
#71
2-Chlorotoluene
Concen: 8.834 ppbv
RT: 10.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 515375

Ion	Ratio	Lower	Upper
91	100		
126	30.2	11.9	47.5

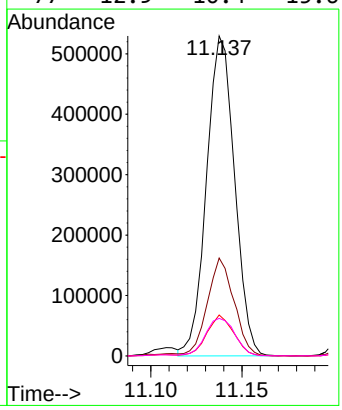


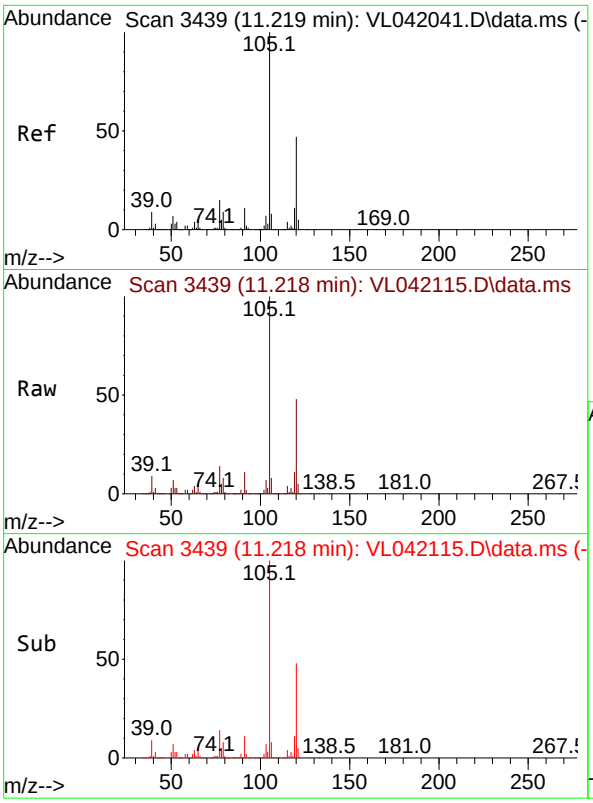


#72
4-Ethyltoluene
Concen: 9.179 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:105 Resp: 566348

Ion	Ratio	Lower	Upper
105	100		
120	29.8	24.1	36.1
91	12.5	10.2	15.4
77	12.9	10.4	15.6



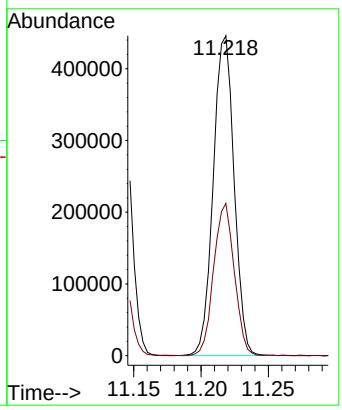


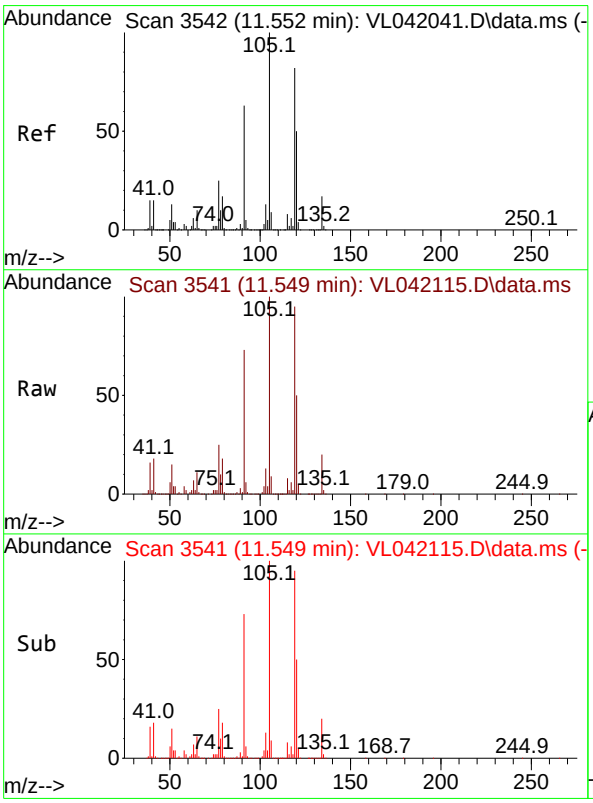
#73
1,3,5-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.218 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 480409

Ion	Ratio	Lower	Upper
105	100		
120	47.5	37.4	56.0

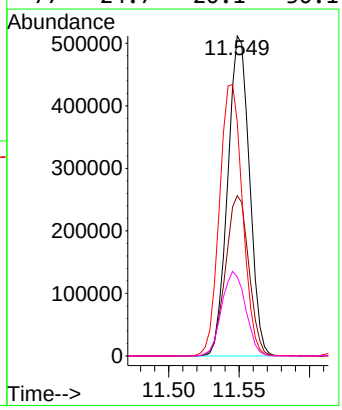


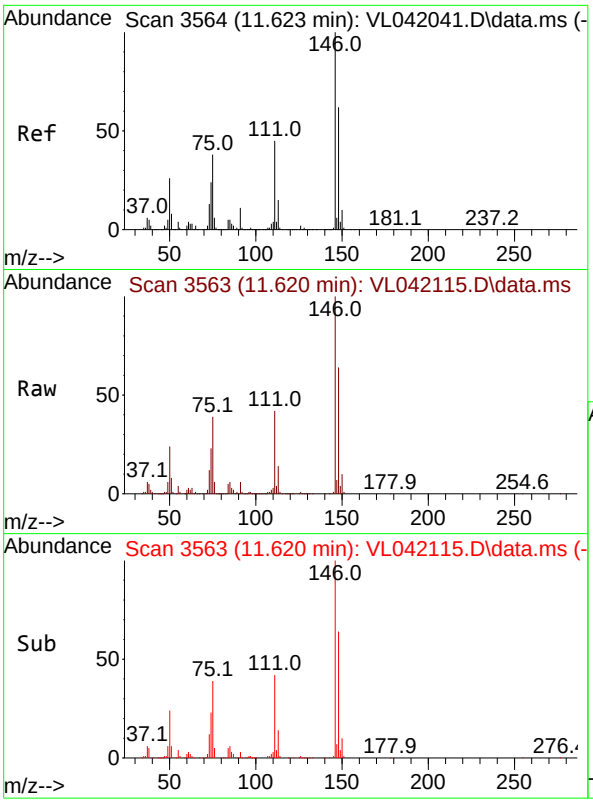


#74
1,2,4-Trimethylbenzene
Concen: 9.127 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:105 Resp: 550074

Ion	Ratio	Lower	Upper
105	100		
120	50.1	40.2	60.2
91	73.1	51.4	77.2
77	24.7	20.1	30.1



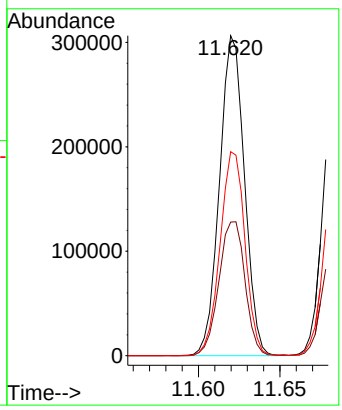


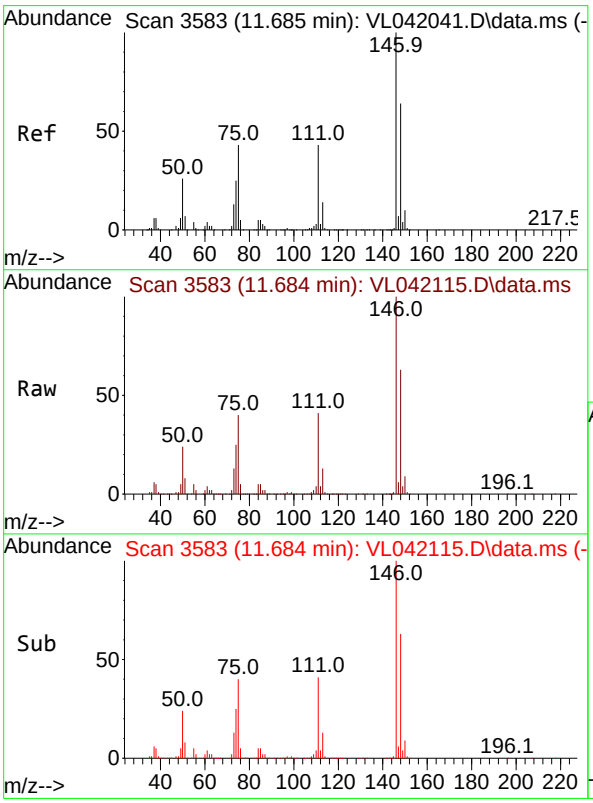
#75
1,3-Dichlorobenzene
Concen: 9.385 ppbv
RT: 11.620 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 325514

Ion	Ratio	Lower	Upper
146	100		
111	44.0	22.4	67.2
148	63.7	32.3	96.8

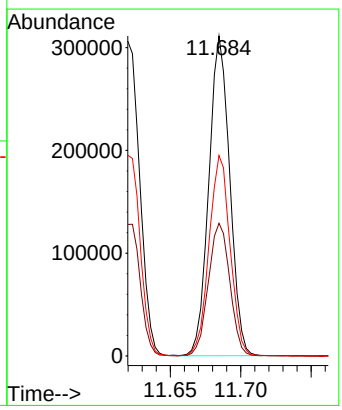


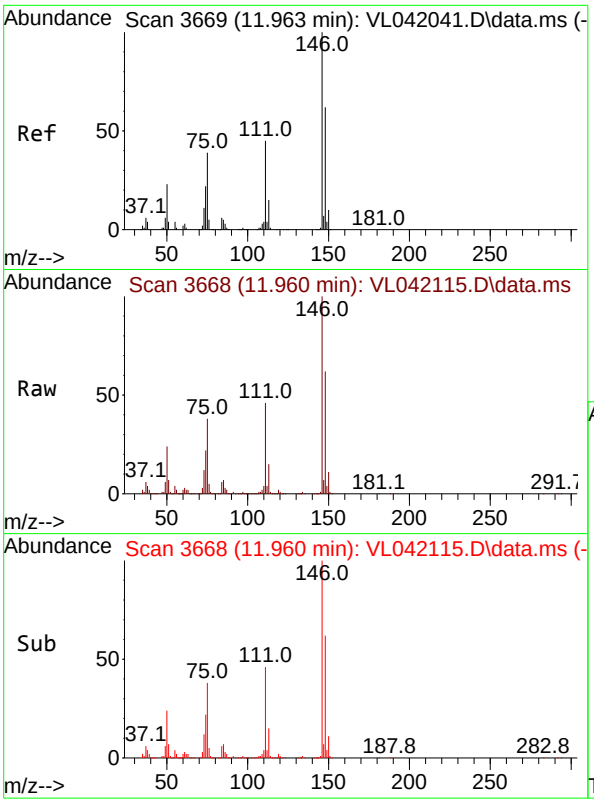


#76
1,4-Dichlorobenzene
Concen: 9.341 ppbv
RT: 11.684 min Scan# 3583
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:146 Resp: 321685

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.5	64.5
148	63.4	31.6	95.0



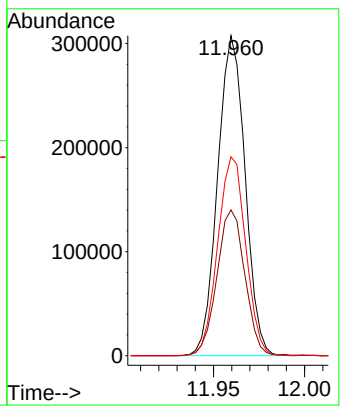


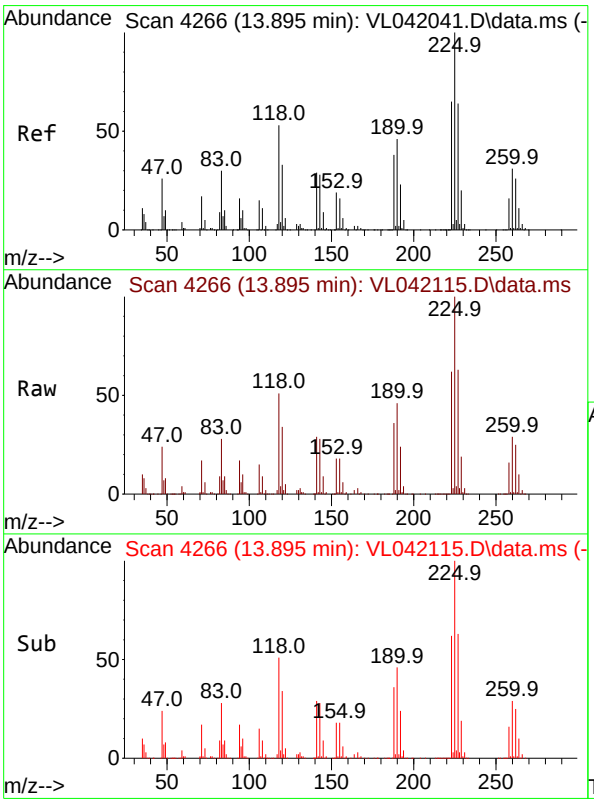
#77
1,2-Dichlorobenzene
Concen: 9.575 ppbv
RT: 11.960 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 322300

Ion	Ratio	Lower	Upper
146	100		
111	46.4	23.2	69.6
148	63.6	31.4	94.2

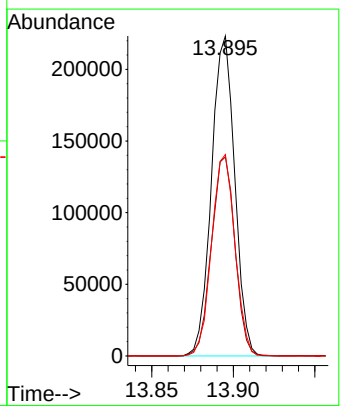


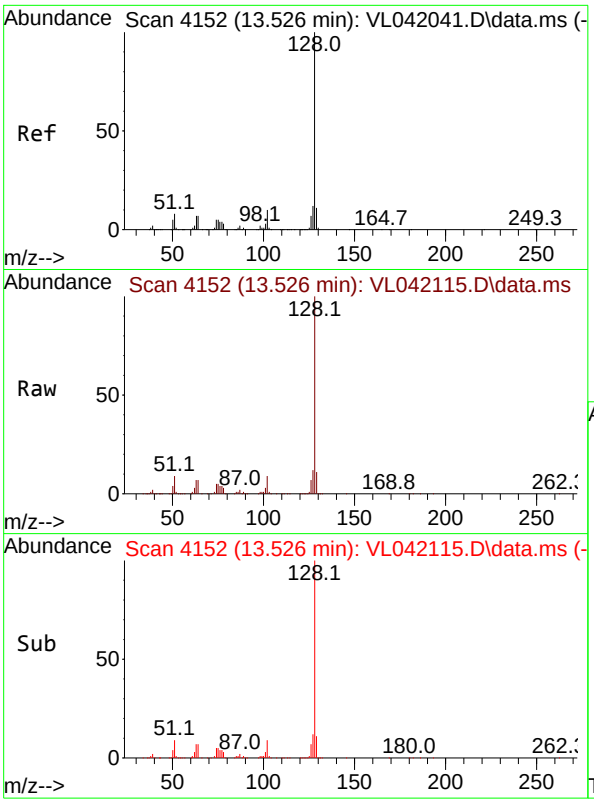


#78
Hexachloro-1,3-Butadiene
Concen: 8.449 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:225 Resp: 221283

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.2
227	63.1	50.8	76.2



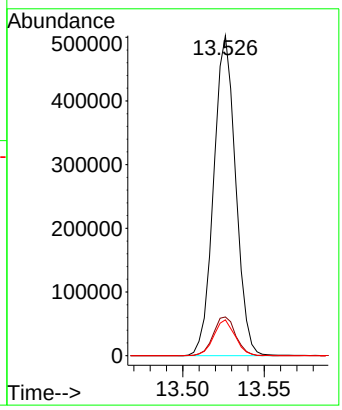


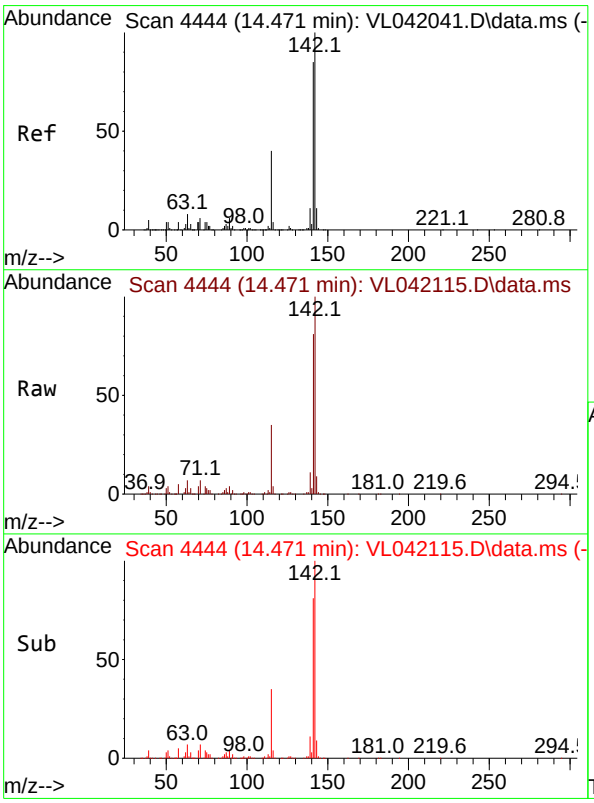
#79
Naphthalene
Concen: 11.379 ppbv
RT: 13.526 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:128 Resp: 470224

Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.8	14.6
129	11.2	8.6	12.8

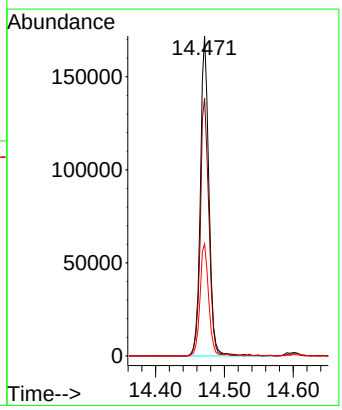


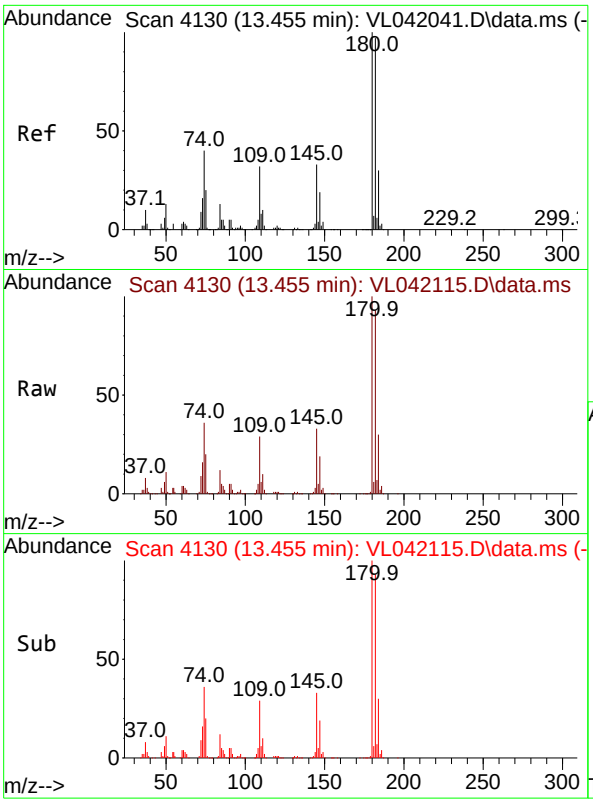


#80
Naphthalene,2-methyl-
Concen: 13.067 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Tgt Ion:142 Resp: 147775

Ion	Ratio	Lower	Upper
142	100		
141	81.6	65.8	98.6
115	36.0	29.5	44.3



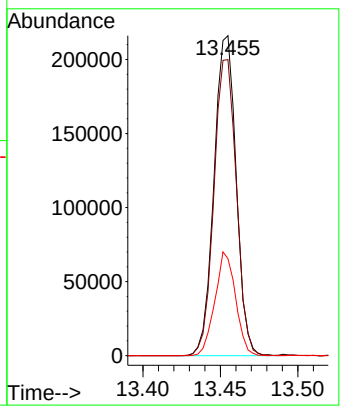


#81
1,2,4-Trichlorobenzene
Concen: 9.311 ppbv
RT: 13.455 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042115.D
Acq: 10 Mar 2025 09:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:180 Resp: 214425

Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.1	112.7
184	30.4	23.8	35.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042117.D
Acq On : 10 Mar 2025 10:52
Operator : SY/MD
Sample : VL0310ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Quant Time: Mar 11 01:21:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	168824	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	400351	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	350466	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	286905	10.641	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	178551	10.171	ppbv	97
3) Chlorodifluoromethane	1.479	51	214564	8.745	ppbv	98
4) Chloromethane	1.538	50	65373	10.070	ppbv	96
5) Vinyl Chloride	1.583	62	63789	10.387	ppbv	98
6) Bromomethane	1.670	94	30397	10.395	ppbv	97
7) Chloroethane	1.709	64	25907	10.383	ppbv	90
8) Dichlorotetrafluoroethane	1.557	85	147392	10.213	ppbv	99
9) Propene	1.486	41	84908	8.494	ppbv	98
10) Heptane	5.001	43	253371	8.141	ppbv	100
11) Trichlorofluoromethane	1.884	101	188256	10.702	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	134259	9.568	ppbv	95
13) Ethanol	1.729	45	3976	6.266	ppbv	93
14) Bromoethene	1.787	108	50688	10.230	ppbv	100
15) Acetone	1.842	43	145391	9.752	ppbv	99
16) 1,3-Butadiene	1.612	39	70201	10.118	ppbv	98
17) tert-Butyl alcohol	2.046	59	159331	8.542	ppbv	99
18) 1,1-Dichloroethene	2.039	96	59693	9.415	ppbv	100
19) Isopropyl Alcohol	1.890	45	79215	9.250	ppbv	93
20) Methylene Chloride	2.068	84	55851	9.904	ppbv	98
21) Allyl Chloride	2.104	41	103366	9.596	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	73354	9.925	ppbv	95
23) Vinyl Acetate	2.470	43	75186	7.172	ppbv #	97
24) 1,1-Dichloroethane	2.415	63	138556	10.075	ppbv	99
25) Ethyl Acetate	2.845	43	511525	8.572	ppbv	100
26) Hexane	2.836	57	204595	8.480	ppbv	98
27) Carbon Disulfide	2.156	76	158957	9.720	ppbv	98
28) Methyl tert-Butyl Ether	2.450	73	102132	8.503	ppbv	99
29) Chloroform	2.858	83	277421	8.544	ppbv	98
30) Cyclohexane	3.871	84	152583	7.792	ppbv	94
31) cis-1,2-Dichloroethene	2.732	61	179418	7.856	ppbv	98
32) 1,1,1-Trichloroethane	3.379	97	249329	7.916	ppbv	95
34) 2-Butanone	2.567	43	284384	9.118	ppbv	97
35) Carbon Tetrachloride	3.777	117	262027	9.491	ppbv	95
36) Benzene	3.671	78	374551	8.937	ppbv	96
37) 1,2-Dichloroethane	3.230	62	201838	8.686	ppbv	100
38) Trichloroethene	4.564	130	143616	8.392	ppbv	98
39) 1,2-Dichloropropane	4.331	63	141729	8.909	ppbv	99
40) 1,4-Dioxane	4.603	88	60426	8.321	ppbv #	88
41) Tetrahydrofuran	3.069	42	160858	8.728	ppbv	97
42) Bromodichloromethane	4.509	83	283730	9.063	ppbv	95
43) Methyl Methacrylate	4.900	69	137403	8.395	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	675434	9.131	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	123548	7.598	ppbv	94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042117.D
Acq On : 10 Mar 2025 10:52
Operator : SY/MD
Sample : VL0310ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Quant Time: Mar 11 01:21:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

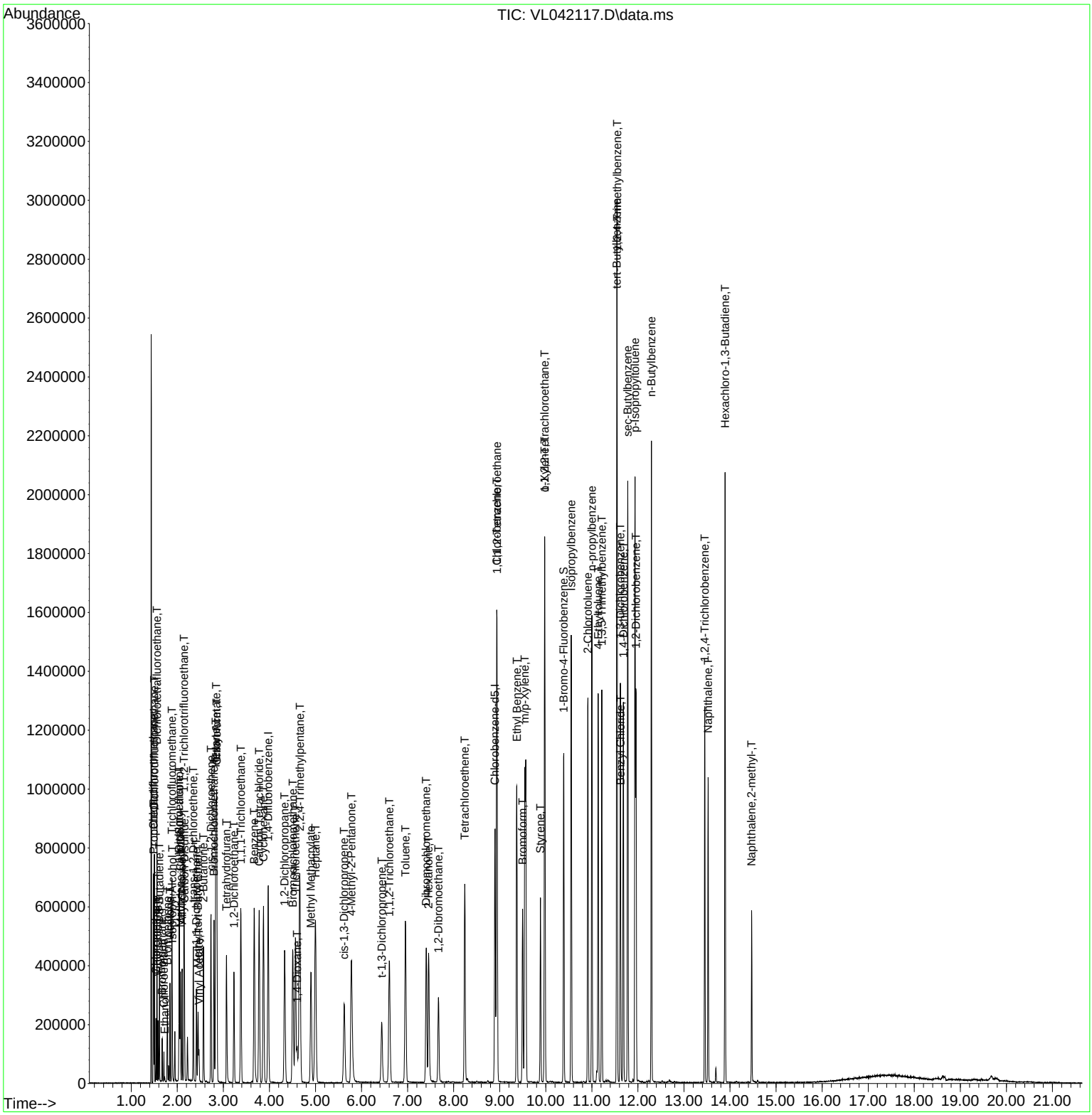
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	169656	8.063	ppbv		98
47) 1,1,2-Trichloroethane	6.603	97	144144	8.925	ppbv		95
48) Dibromochloromethane	7.402	129	226388	8.951	ppbv		99
49) Bromoform	9.496	173	201809	9.188	ppbv		98
50) 4-Methyl-2-Pentanone	5.781	43	387370	9.603	ppbv		97
51) 2-Hexanone	7.454	43	305577	11.007	ppbv	#	97
52) Tetrachloroethene	8.241	164	120494	8.398	ppbv		92
53) Toluene	6.952	91	396095	8.456	ppbv		97
54) 1,2-Dibromoethane	7.671	107	190659	8.732	ppbv		92
56) 1,1,1,2-Tetrachloroethane	8.940	131	183026	9.240	ppbv		100
57) Chlorobenzene	8.937	112	336406	9.258	ppbv		95
58) Ethyl Benzene	9.370	91	554446	8.590	ppbv		98
59) m/p-Xylene	9.545	91	473623	9.221	ppbv	#	100
60) o-Xylene	9.976	91	467382	9.052	ppbv		98
61) Styrene	9.885	104	205606	8.469	ppbv		97
62) Isopropylbenzene	10.552	105	692094	8.950	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.976	83	323193	9.504	ppbv		100
64) n-propylbenzene	11.002	120	184209	9.081	ppbv		99
65) tert-Butylbenzene	11.542	119	620355	8.814	ppbv		99
66) Benzyl Chloride	11.626	91	38948	7.252	ppbv		99
67) sec-Butylbenzene	11.778	105	900003	8.942	ppbv		99
69) p-Isopropyltoluene	11.937	119	732332	9.145	ppbv		99
70) n-Butylbenzene	12.293	91	752707	9.208	ppbv		99
71) 2-Chlorotoluene	10.914	91	514130	8.624	ppbv		99
72) 4-Ethyltoluene	11.137	105	562308	8.919	ppbv		100
73) 1,3,5-Trimethylbenzene	11.215	105	480973	8.795	ppbv		100
74) 1,2,4-Trimethylbenzene	11.549	105	538676	8.747	ppbv		99
75) 1,3-Dichlorobenzene	11.620	146	318968	9.000	ppbv		99
76) 1,4-Dichlorobenzene	11.684	146	315833	8.976	ppbv		99
77) 1,2-Dichlorobenzene	11.960	146	319838	9.299	ppbv		99
78) Hexachloro-1,3-Butadiene	13.892	225	219090	8.187	ppbv		99
79) Naphthalene	13.523	128	472554	11.191	ppbv		100
80) Naphthalene,2-methyl-	14.468	142	153727	13.304	ppbv		97
81) 1,2,4-Trichlorobenzene	13.452	180	210585	8.949	ppbv		99

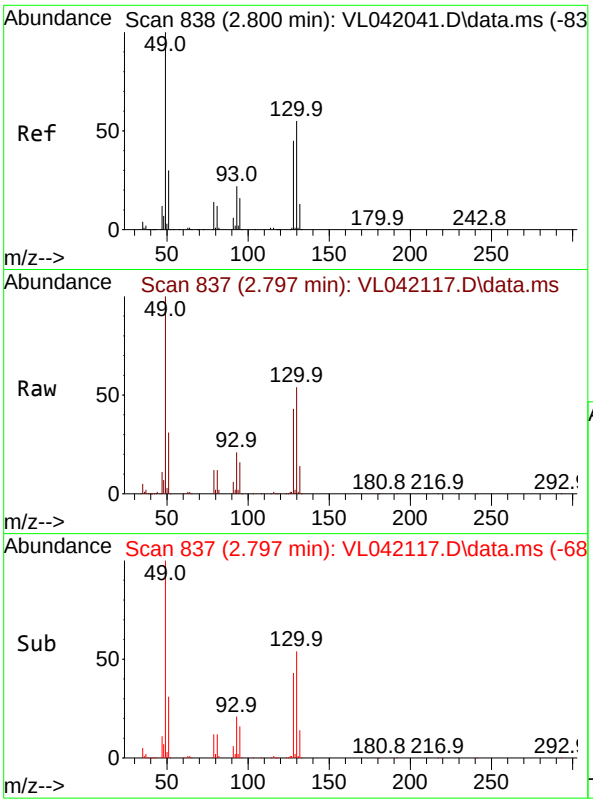
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042117.D
Acq On : 10 Mar 2025 10:52
Operator : SY/MD
Sample : VL0310ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Quant Time: Mar 11 01:21:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



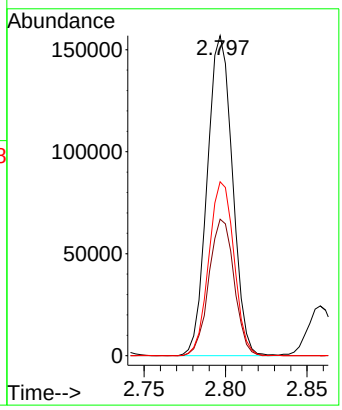


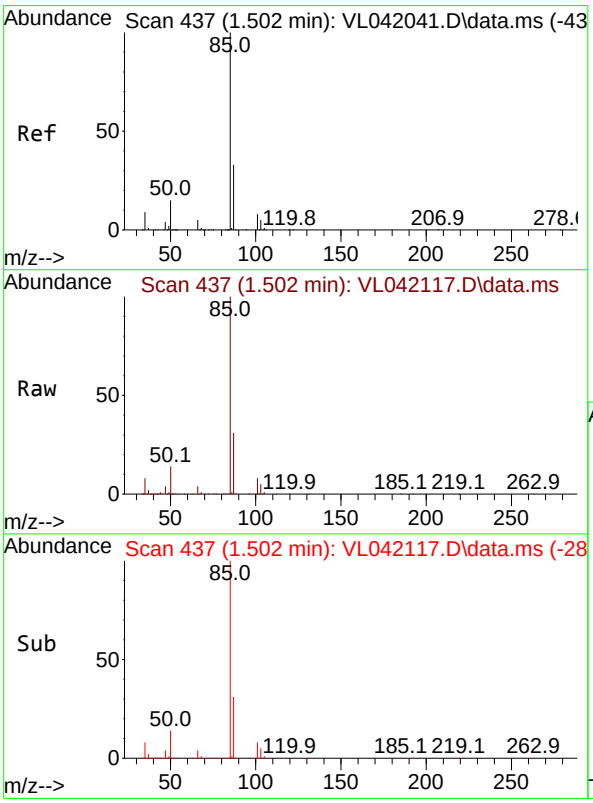
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 49 Resp: 168824

Ion	Ratio	Lower	Upper
49	100		
128	42.6	21.6	64.8
130	54.3	27.8	83.4

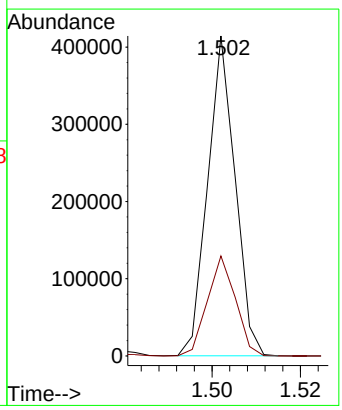


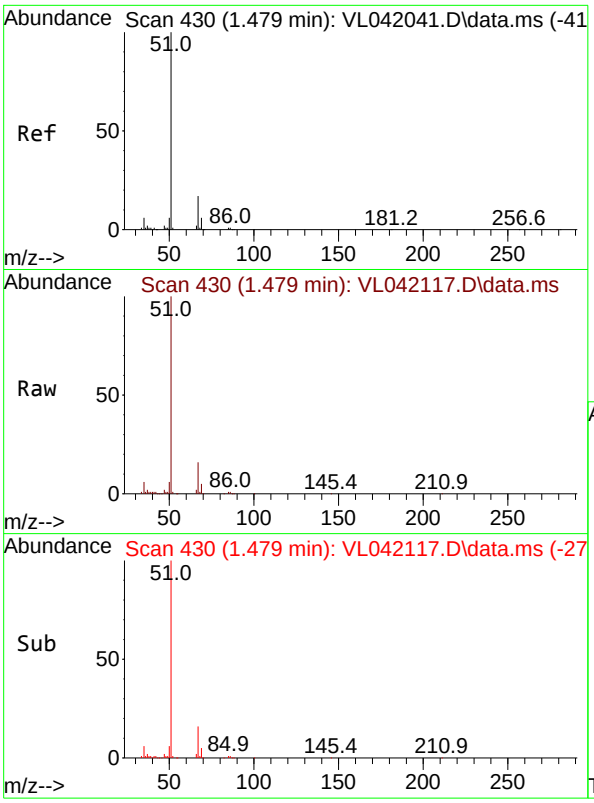


#2
Dichlorodifluoromethane
Concen: 10.171 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 85 Resp: 178551

Ion	Ratio	Lower	Upper
85	100		
87	31.3	26.4	39.6



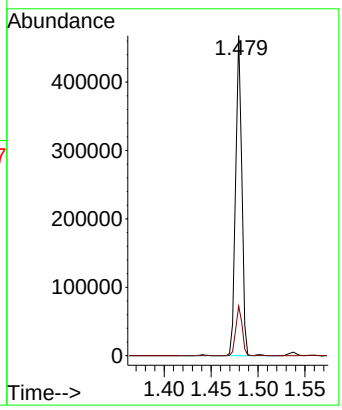


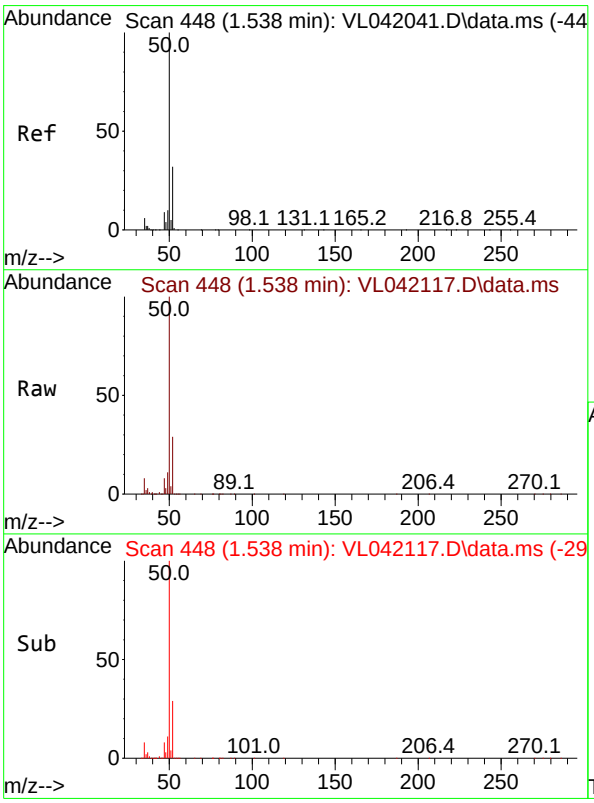
#3
Chlorodifluoromethane
Concen: 8.745 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 51 Resp: 214564

Ion	Ratio	Lower	Upper
51	100		
67	16.2	13.7	20.5

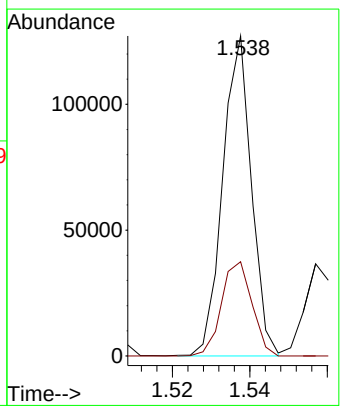


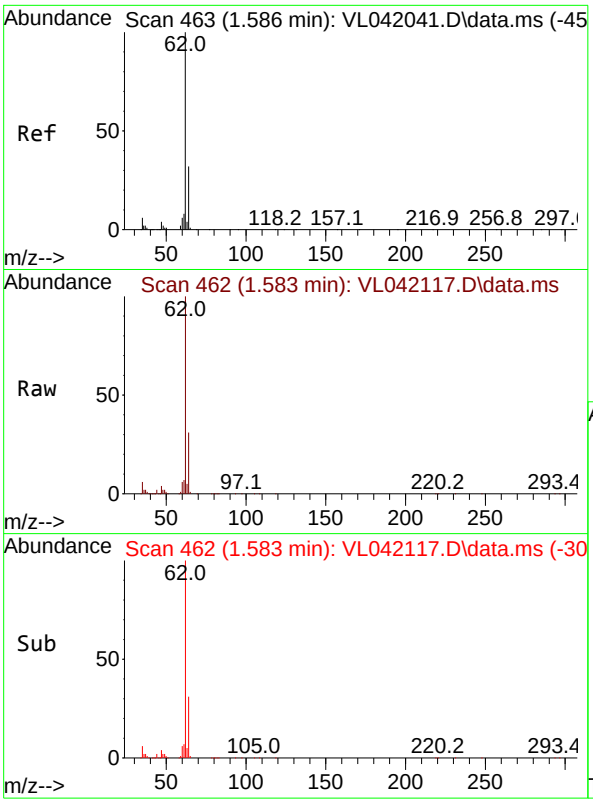


#4
Chloromethane
Concen: 10.070 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 50 Resp: 65373

Ion	Ratio	Lower	Upper
50	100		
52	29.5	25.4	38.0



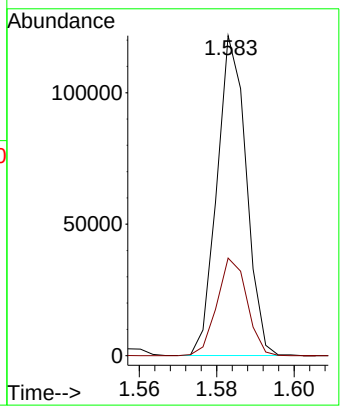


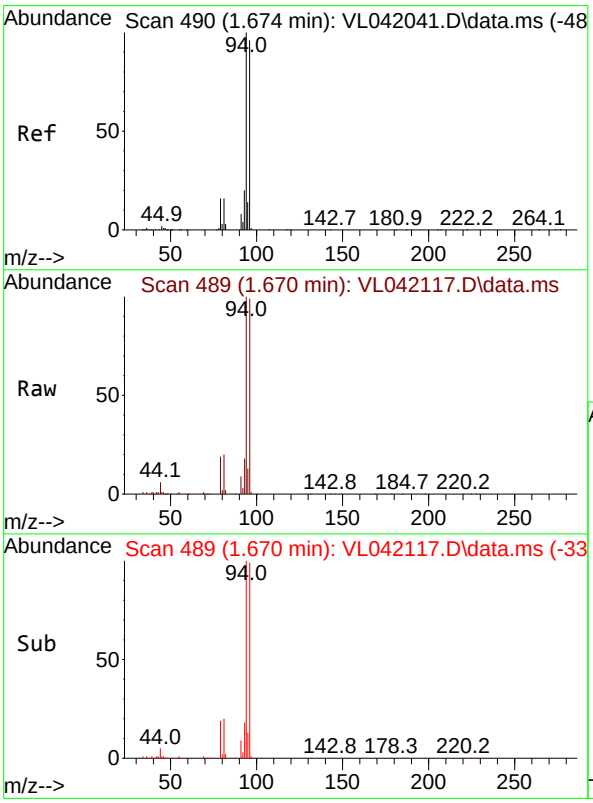
#5
Vinyl Chloride
Concen: 10.387 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 62 Resp: 63789

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.3	37.9

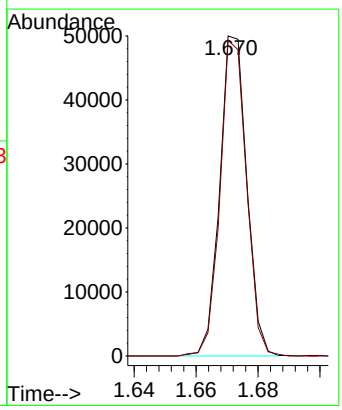


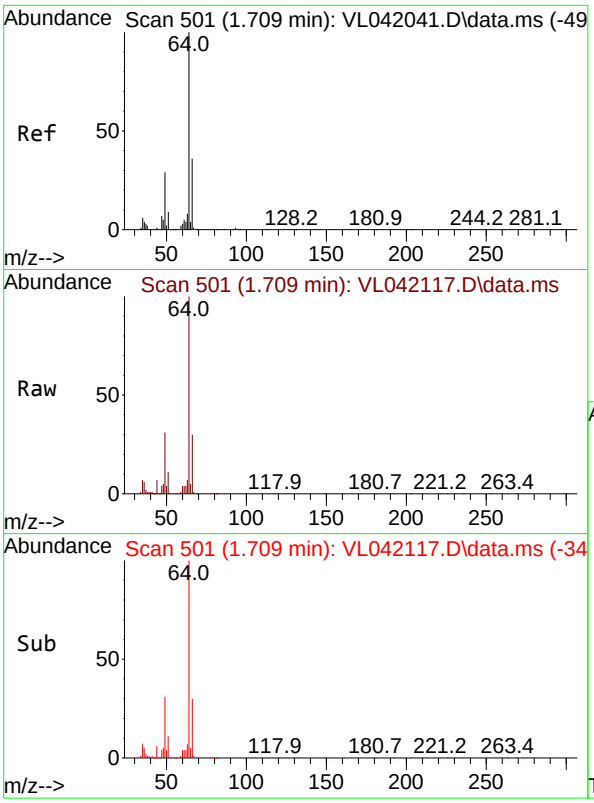


#6
Bromomethane
Concen: 10.395 ppbv
RT: 1.670 min Scan# 489
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 94 Resp: 30397

Ion	Ratio	Lower	Upper
94	100		
96	98.7	76.5	114.7



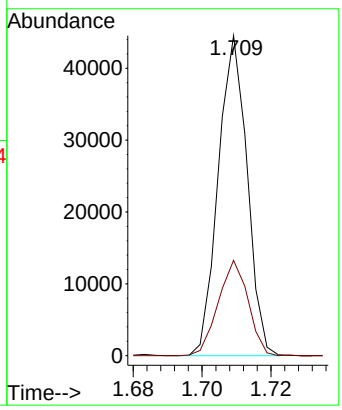


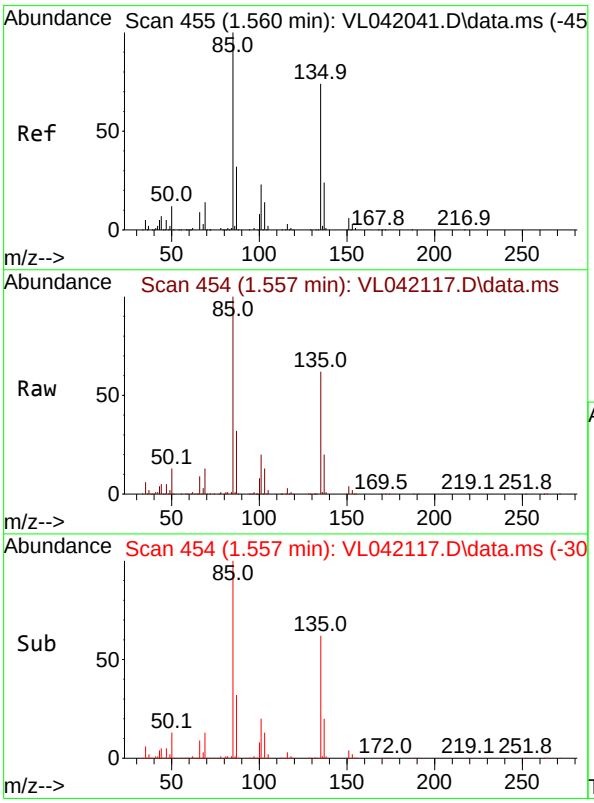
#7
Chloroethane
Concen: 10.383 ppbv
RT: 1.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 64 Resp: 25907

Ion	Ratio	Lower	Upper
64	100		
66	29.8	28.4	42.6

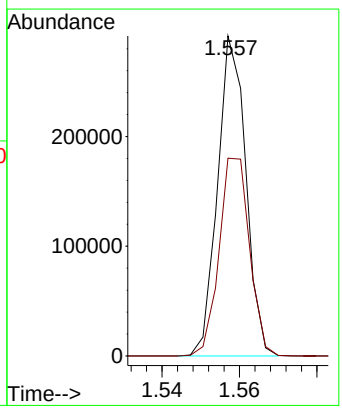


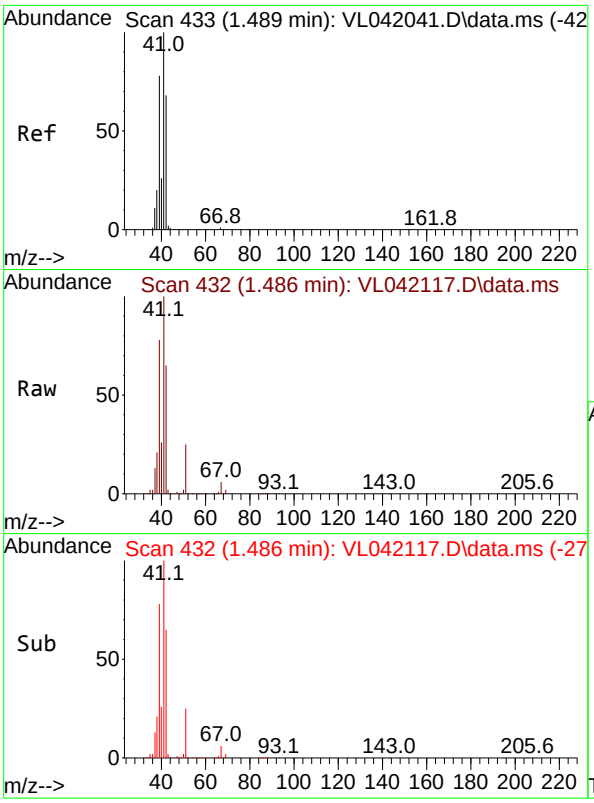


#8
Dichlorotetrafluoroethane
Concen: 10.213 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 85 Resp: 147392

Ion	Ratio	Lower	Upper
85	100		
135	67.0	54.6	81.8



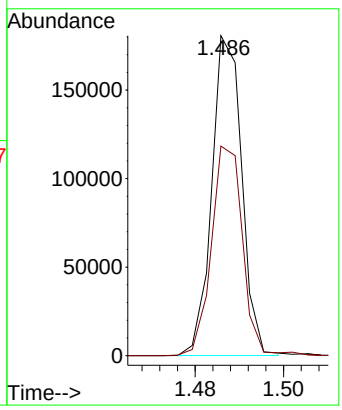


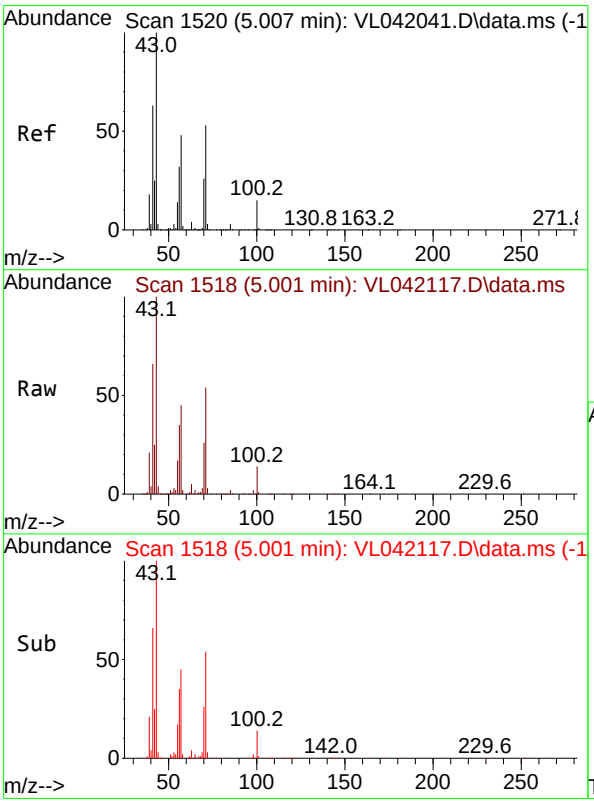
#9
Propene
Concen: 8.494 ppbv
RT: 1.486 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 41 Resp: 84908

Ion	Ratio	Lower	Upper
41	100		
42	68.5	55.8	83.6

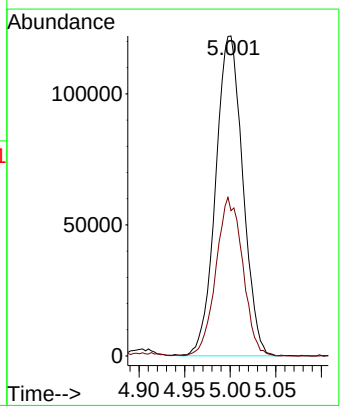


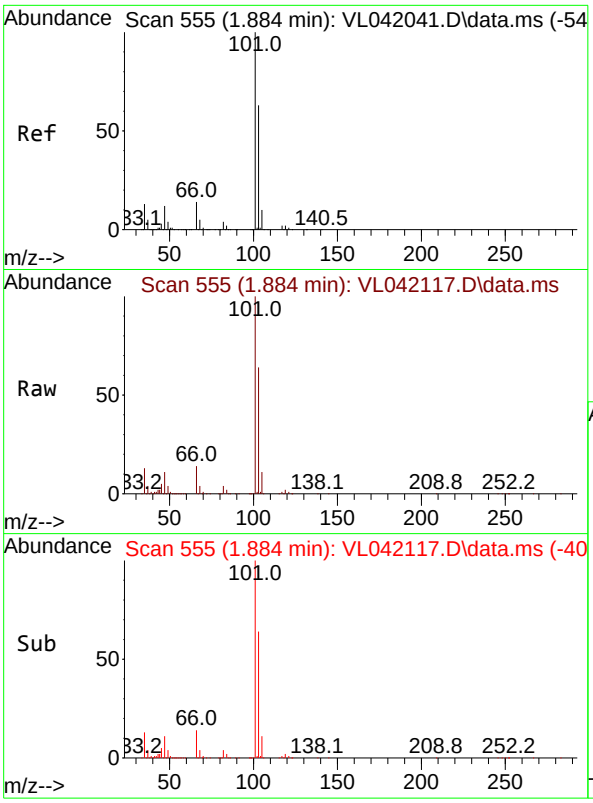


#10
Heptane
Concen: 8.141 ppbv
RT: 5.001 min Scan# 1518
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 43 Resp: 253371

Ion	Ratio	Lower	Upper
43	100		
57	48.9	39.4	59.0



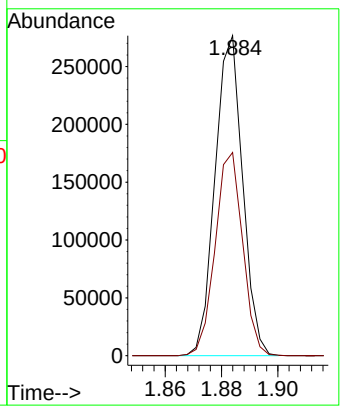


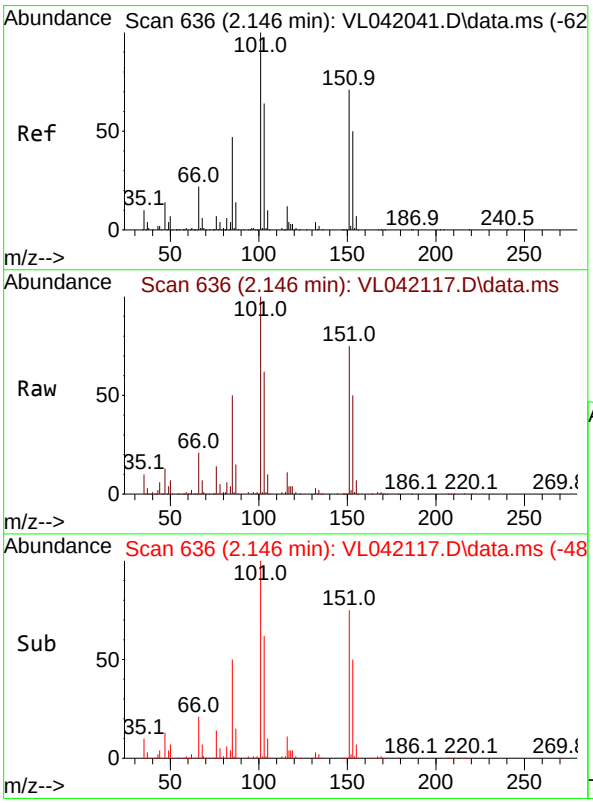
#11
Trichlorofluoromethane
Concen: 10.702 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:101 Resp: 188256

Ion	Ratio	Lower	Upper
101	100		
103	63.5	50.6	75.8

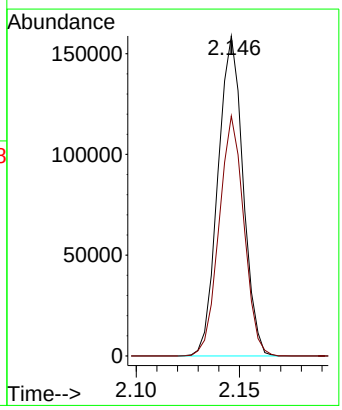


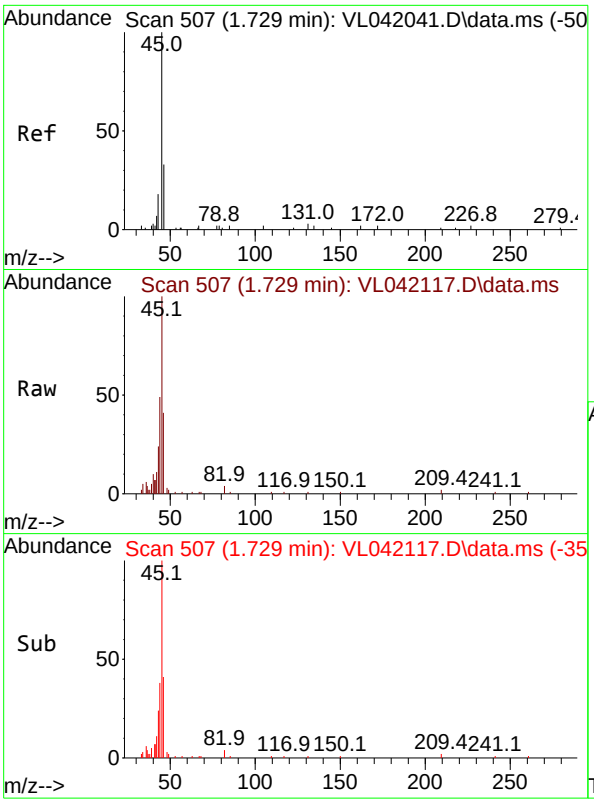


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.568 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:101 Resp: 134259

Ion	Ratio	Lower	Upper
101	100		
151	74.2	62.6	94.0



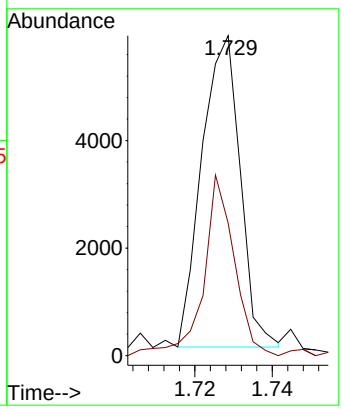


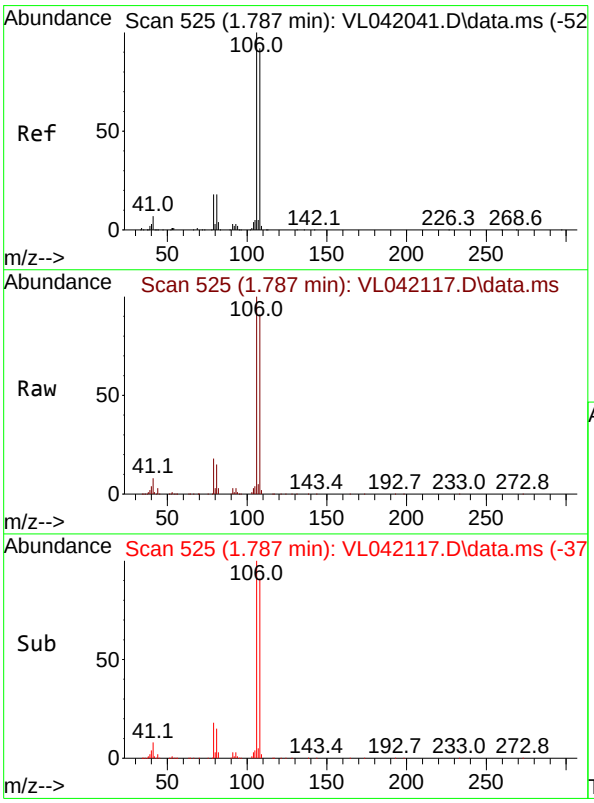
#13
Ethanol
Concen: 6.266 ppbv
RT: 1.729 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 45 Resp: 3976

Ion	Ratio	Lower	Upper
45	100		
46	47.4	17.1	68.3

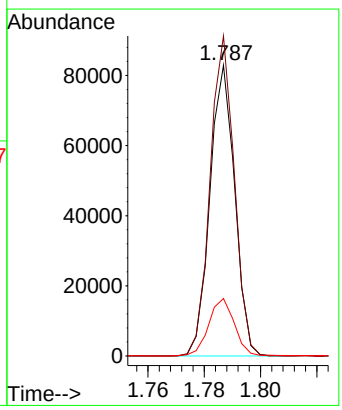


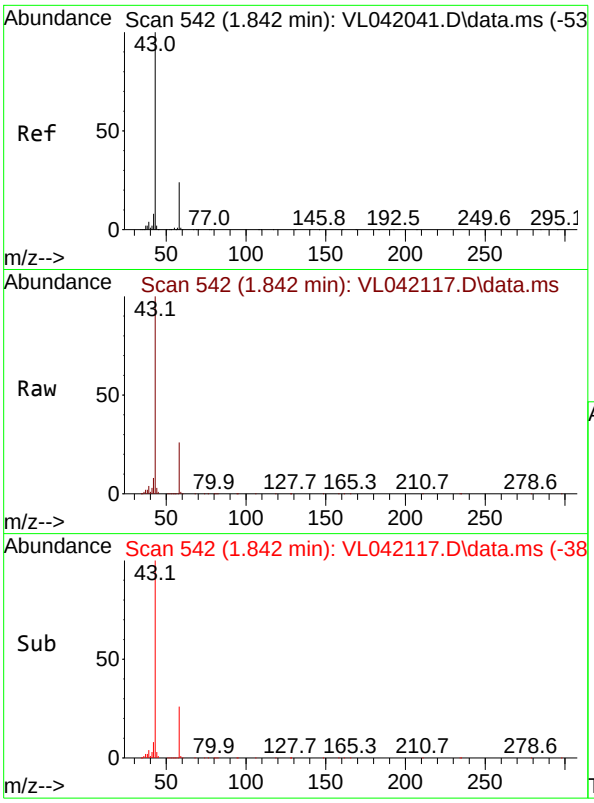


#14
Bromoethene
Concen: 10.230 ppbv
RT: 1.787 min Scan# 525
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:108 Resp: 50688

Ion	Ratio	Lower	Upper
108	100		
106	107.1	85.4	128.0
79	20.9	16.5	24.7



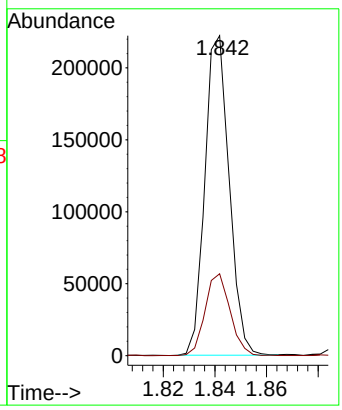


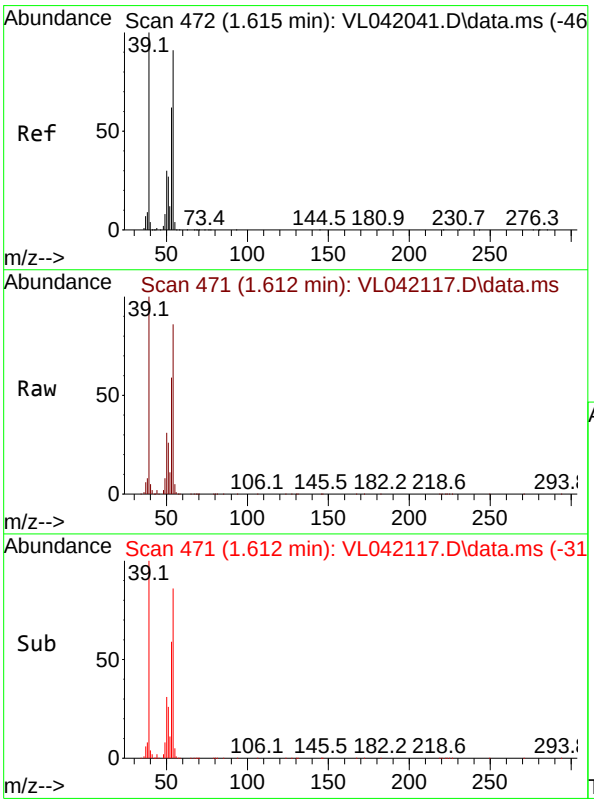
#15
Acetone
Concen: 9.752 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 43 Resp: 145391

Ion	Ratio	Lower	Upper
43	100		
58	26.6	20.7	31.1

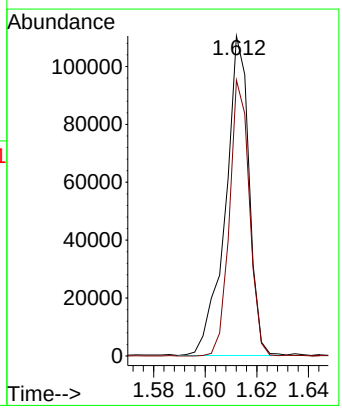


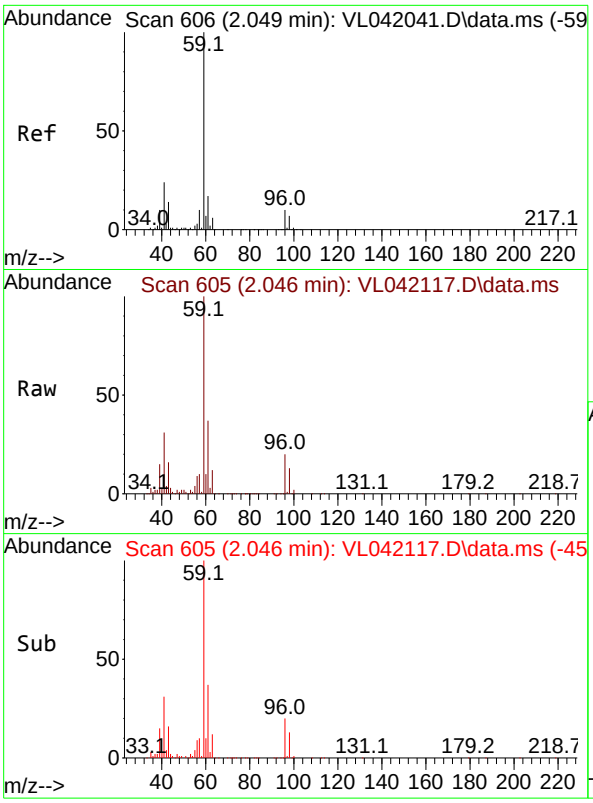


#16
1,3-Butadiene
Concen: 10.118 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 39 Resp: 70201

Ion	Ratio	Lower	Upper
39	100		
54	73.0	59.6	89.4



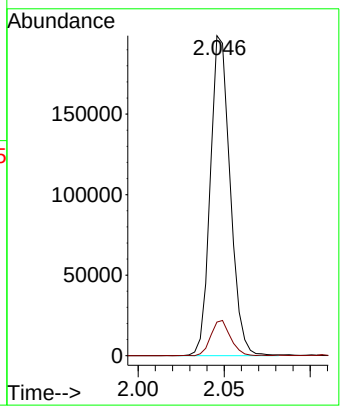


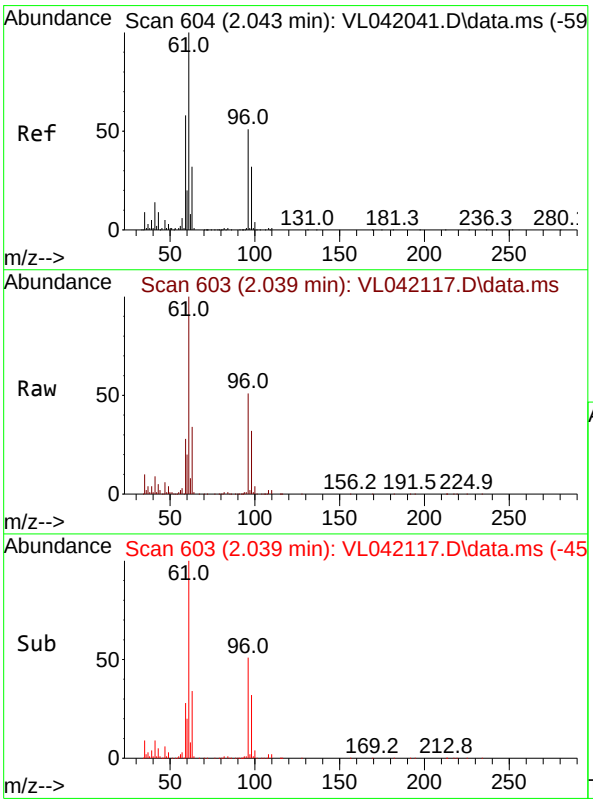
#17
tert-Butyl alcohol
Concen: 8.542 ppbv
RT: 2.046 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 59 Resp: 159331

Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.3	13.9

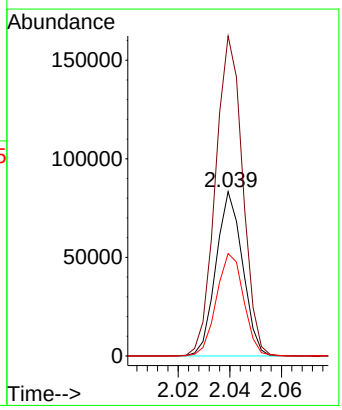


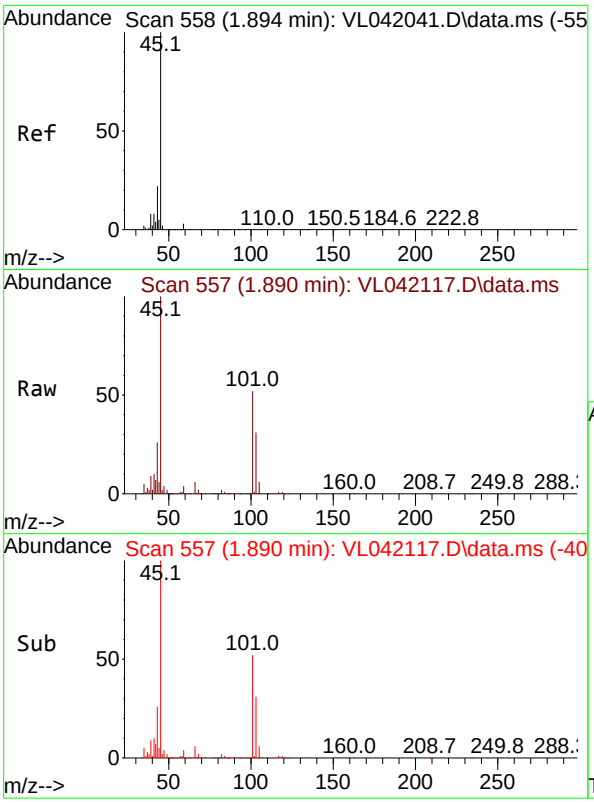


#18
1,1-Dichloroethene
Concen: 9.415 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 96 Resp: 59693

Ion	Ratio	Lower	Upper
96	100		
61	194.5	156.0	234.0
98	62.3	49.4	74.2



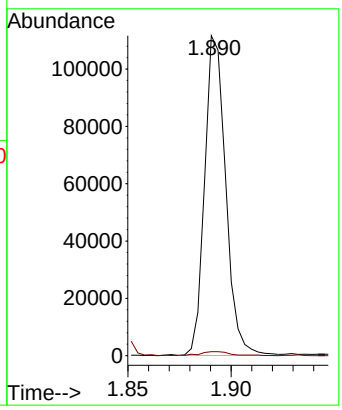


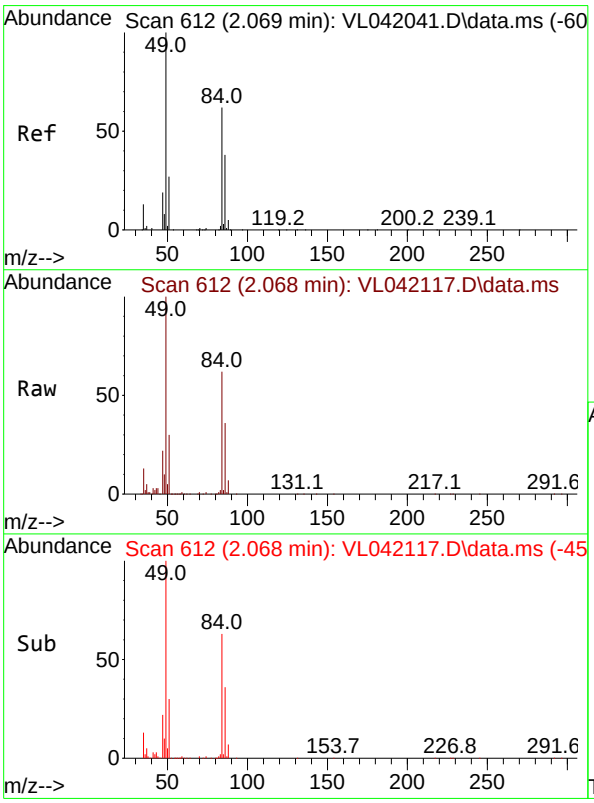
#19
Isopropyl Alcohol
Concen: 9.250 ppbv
RT: 1.890 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 45 Resp: 79215

Ion	Ratio	Lower	Upper
45	100		
58	49.0	35.3	52.9

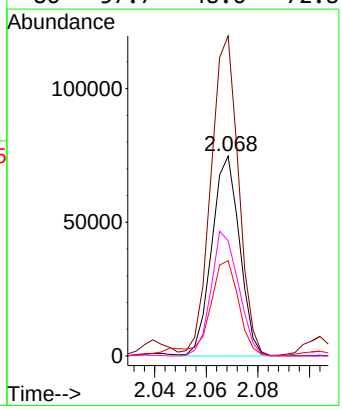


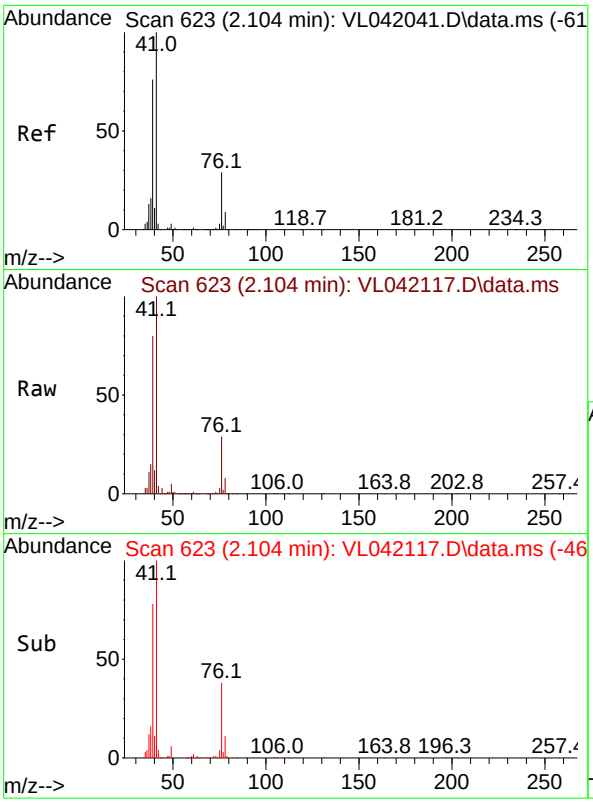


#20
Methylene Chloride
Concen: 9.904 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 84 Resp: 55851

Ion	Ratio	Lower	Upper
84	100		
49	159.7	130.0	195.0
51	47.6	37.4	56.0
86	57.7	48.6	72.8



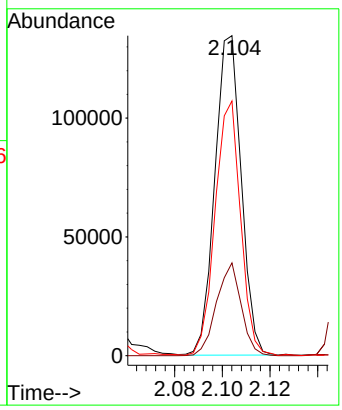


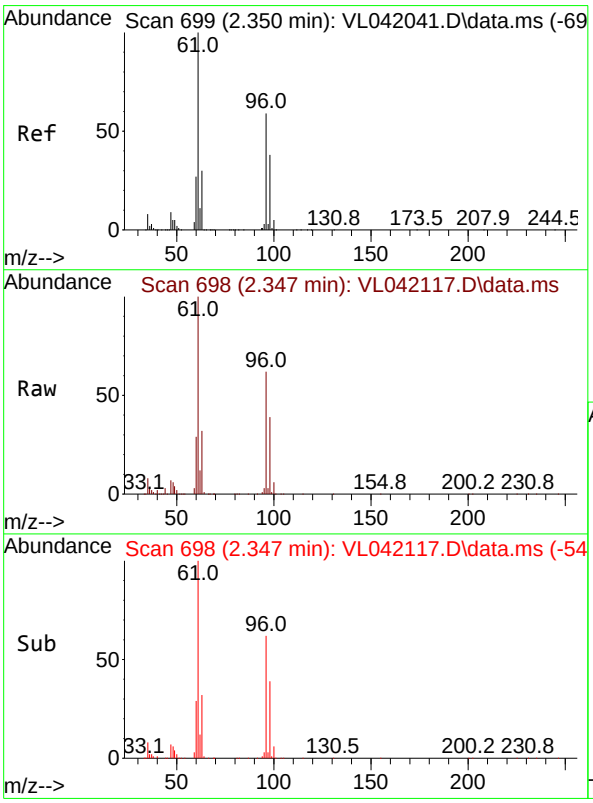
#21
Allyl Chloride
Concen: 9.596 ppbv
RT: 2.104 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 41 Resp: 103366

Ion	Ratio	Lower	Upper
41	100		
76	27.2	23.8	35.6
39	76.6	63.8	95.6

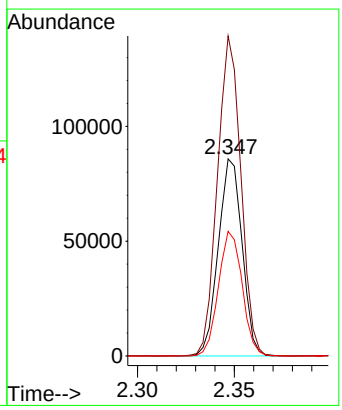


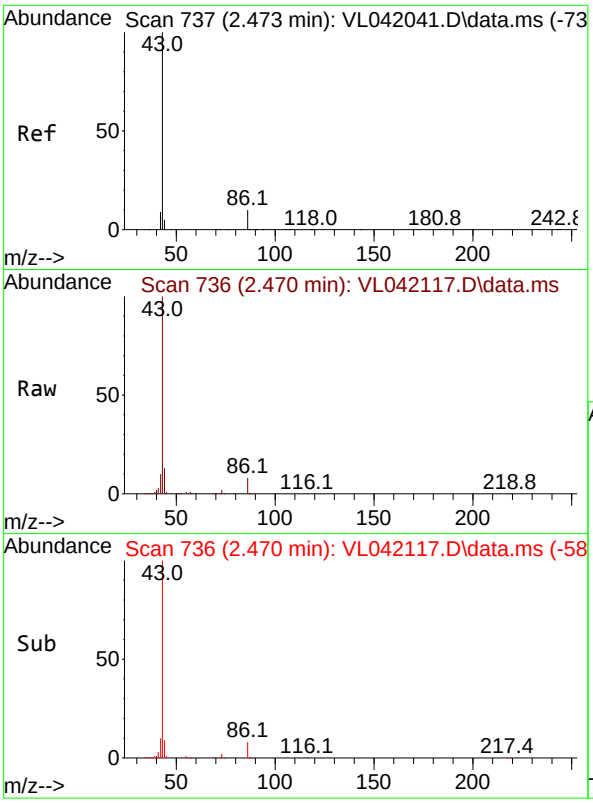


#22
trans-1,2-Dichloroethene
Concen: 9.925 ppbv
RT: 2.347 min Scan# 698
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 96 Resp: 73354

Ion	Ratio	Lower	Upper
96	100		
61	162.4	136.6	205.0
98	63.2	51.8	77.6



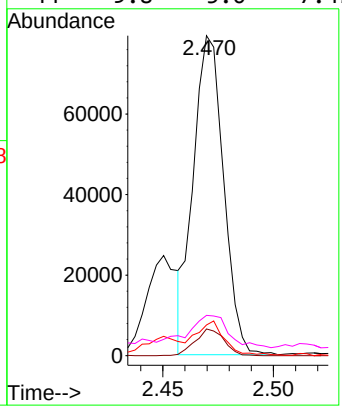


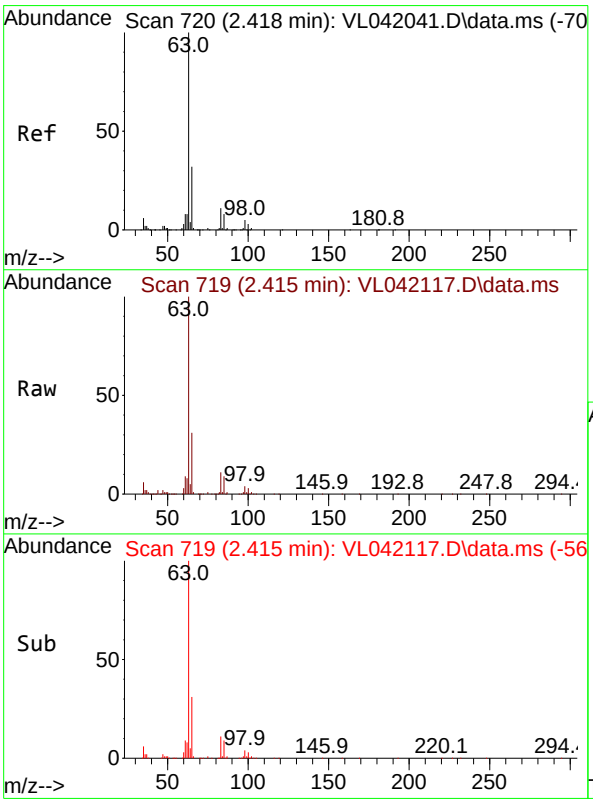
#23
Vinyl Acetate
Concen: 7.172 ppbv
RT: 2.470 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 43 Resp: 75186

Ion	Ratio	Lower	Upper
43	100		
86	8.5	7.0	10.4
42	9.3	7.6	11.4
44	9.8	5.0	7.4#

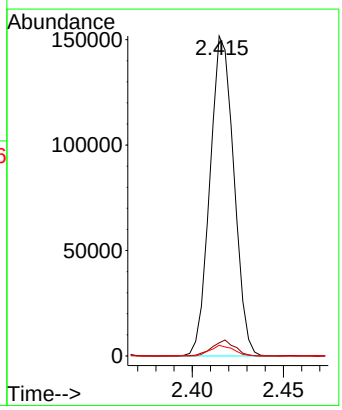


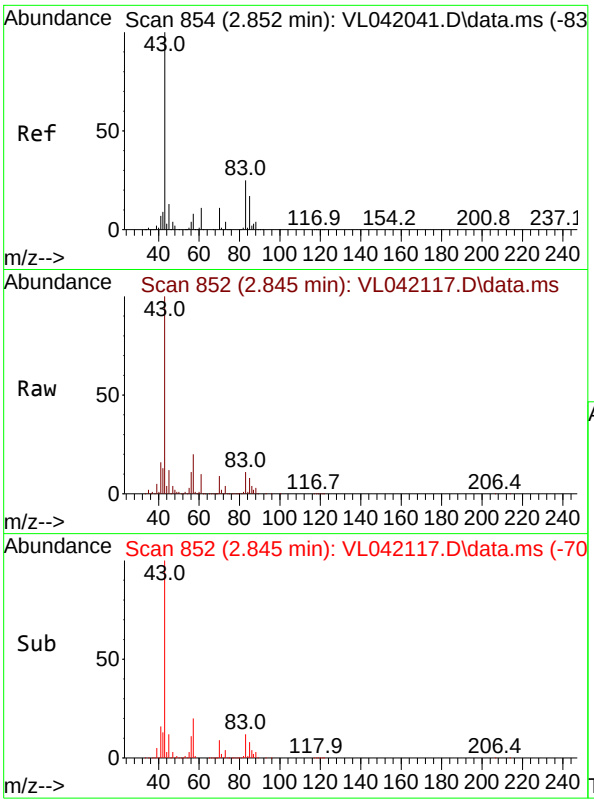


#24
1,1-Dichloroethane
Concen: 10.075 ppbv
RT: 2.415 min Scan# 719
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 63 Resp: 138556

Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.4	7.2
100	3.4	1.7	5.0



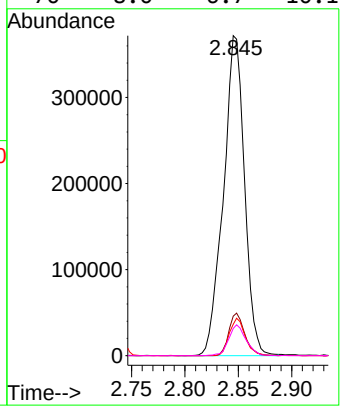


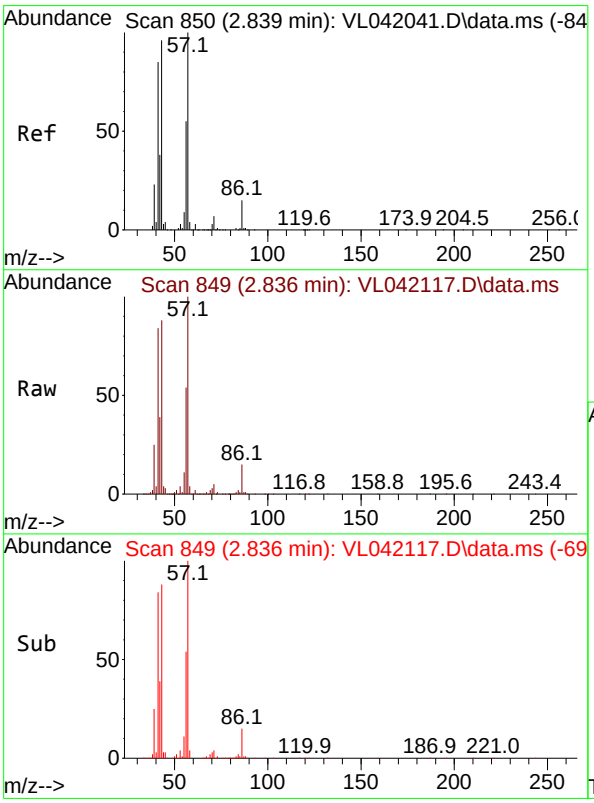
#25
Ethyl Acetate
Concen: 8.572 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 43 Resp: 511525

Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.0	7.2	10.8
70	8.0	6.7	10.1

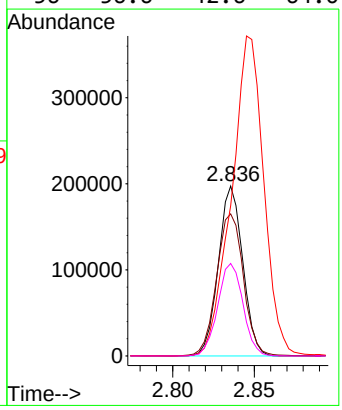


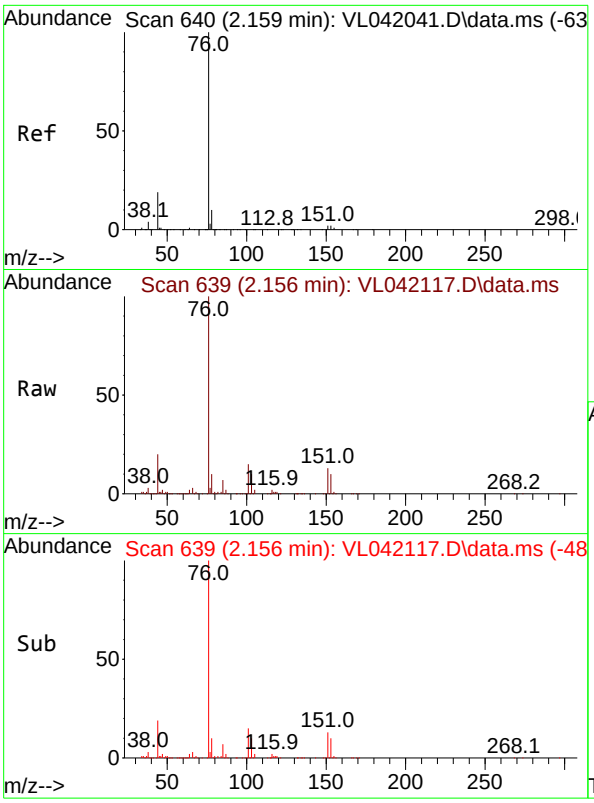


#26
Hexane
Concen: 8.480 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 57 Resp: 204595

Ion	Ratio	Lower	Upper
57	100		
41	92.9	70.6	106.0
43	251.1	199.4	299.0
56	56.6	42.6	64.0



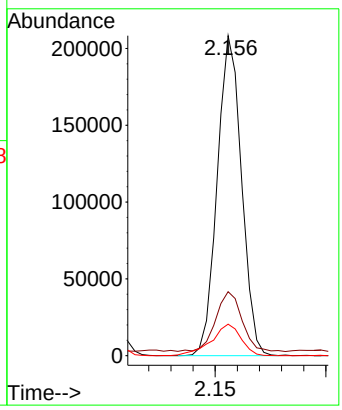


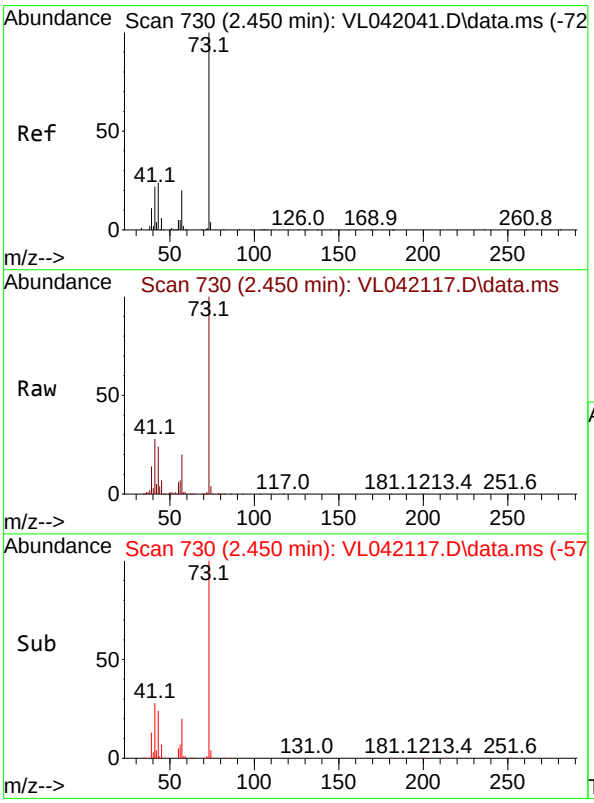
#27
Carbon Disulfide
Concen: 9.720 ppbv
RT: 2.156 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 76 Resp: 158957

Ion	Ratio	Lower	Upper
76	100		
44	21.4	16.2	24.2
78	12.0	9.4	14.0

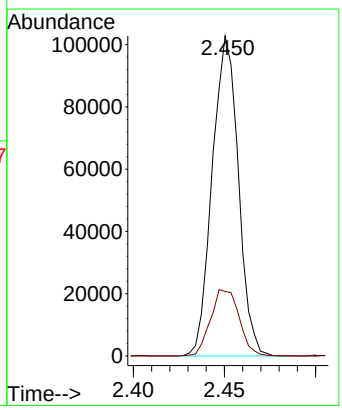


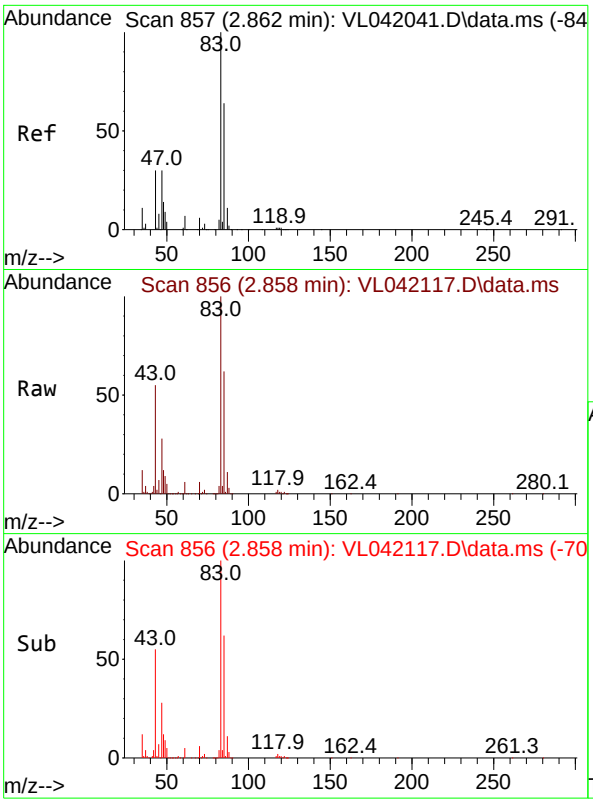


#28
Methyl tert-Butyl Ether
Concen: 8.503 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 73 Resp: 102132

Ion	Ratio	Lower	Upper
73	100		
57	22.8	17.7	26.5



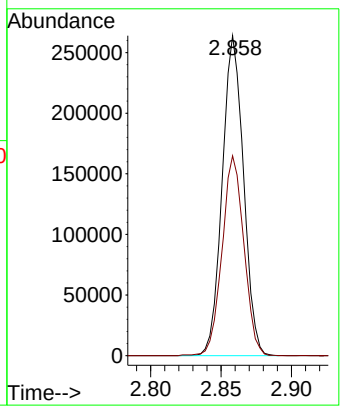


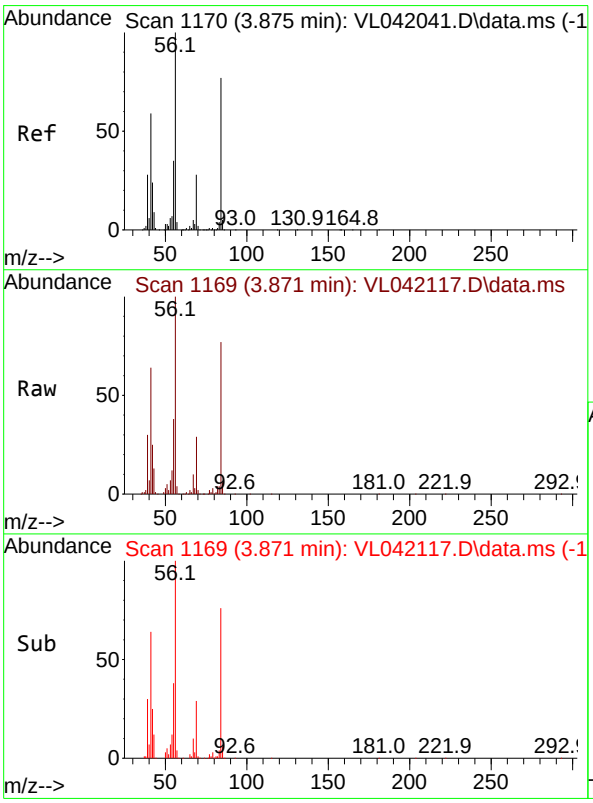
#29
Chloroform
Concen: 8.544 ppbv
RT: 2.858 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 83 Resp: 277421

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.2	76.8

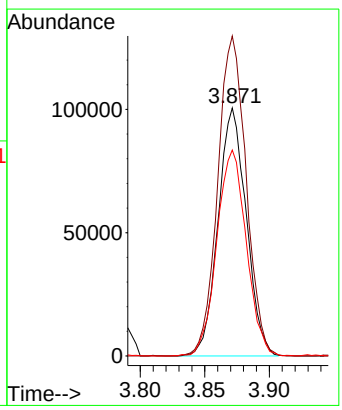


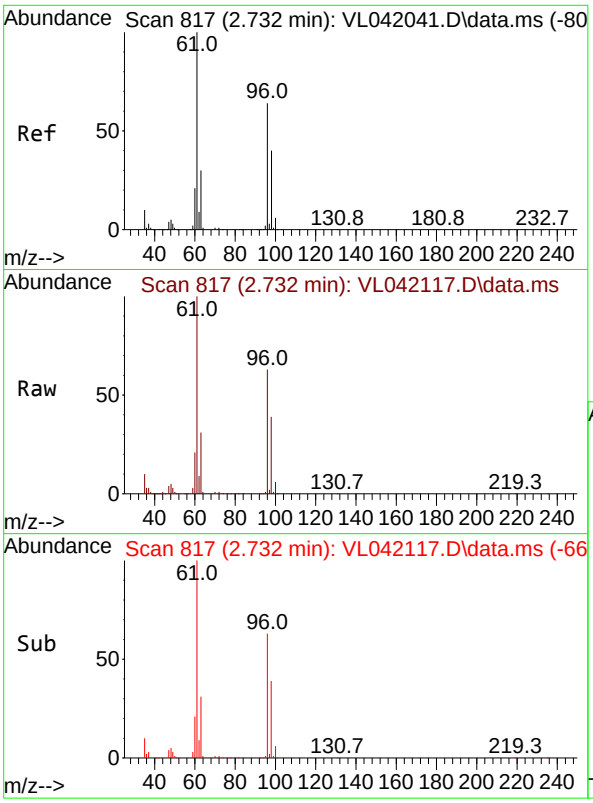


#30
Cyclohexane
Concen: 7.792 ppbv
RT: 3.871 min Scan# 1169
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 84 Resp: 152583

Ion	Ratio	Lower	Upper
84	100		
56	130.3	101.5	152.3
41	87.1	62.6	93.8



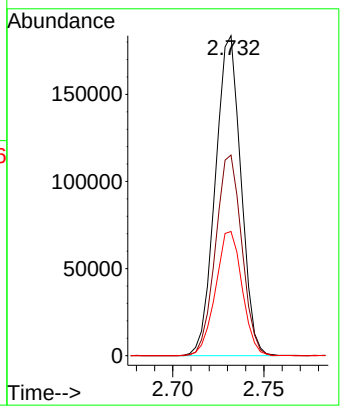


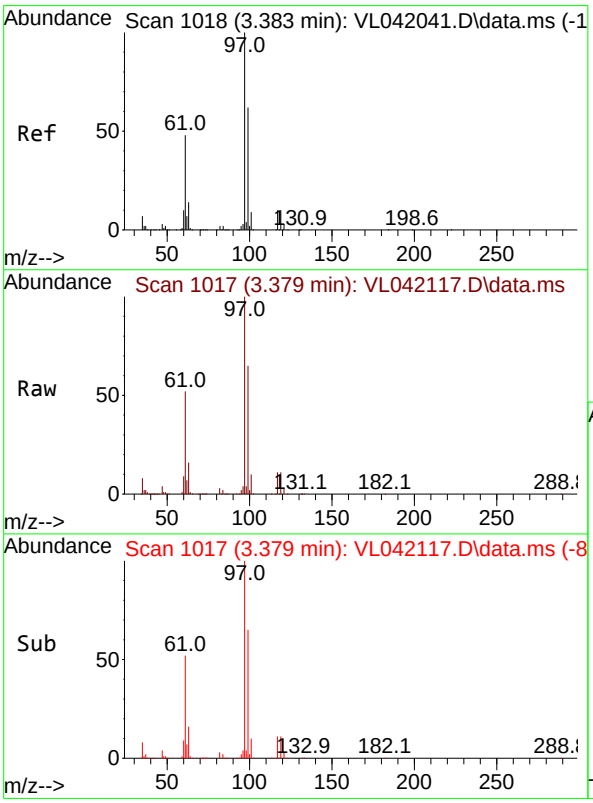
#31
cis-1,2-Dichloroethene
Concen: 7.856 ppbv
RT: 2.732 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 61 Resp: 179418

Ion	Ratio	Lower	Upper
61	100		
96	62.7	51.5	77.3
98	38.8	32.0	48.0

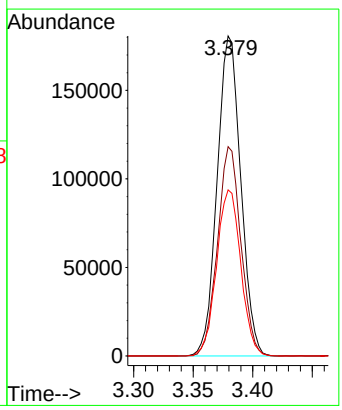


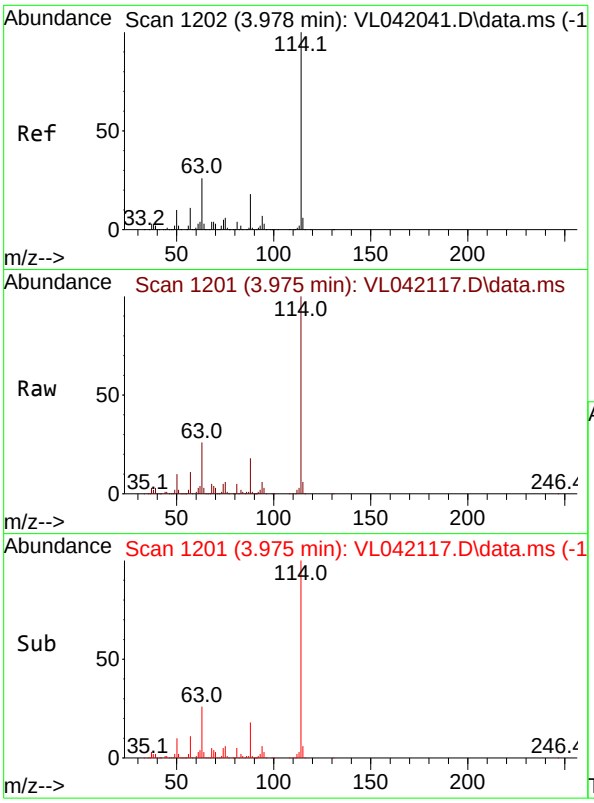


#32
1,1,1-Trichloroethane
Concen: 7.916 ppbv
RT: 3.379 min Scan# 1017
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 97 Resp: 249329

Ion	Ratio	Lower	Upper
97	100		
99	64.5	49.8	74.6
61	53.2	38.9	58.3



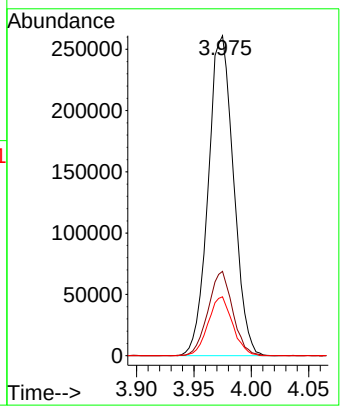


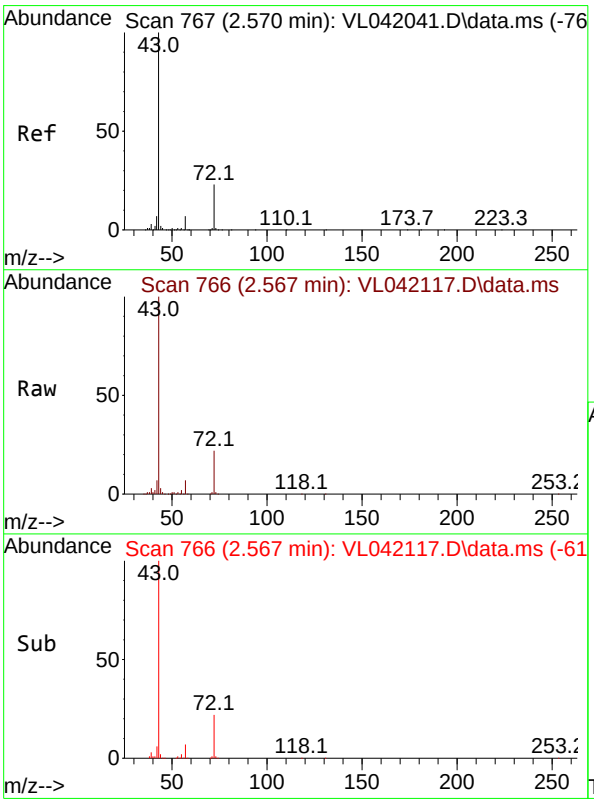
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:114 Resp: 400351

Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.1	30.1
88	17.8	14.3	21.5

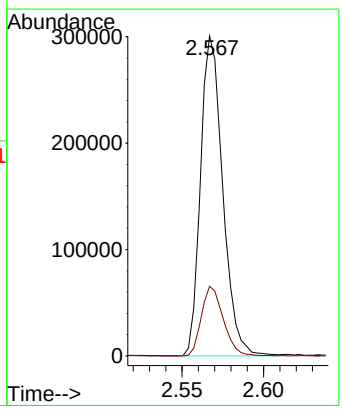


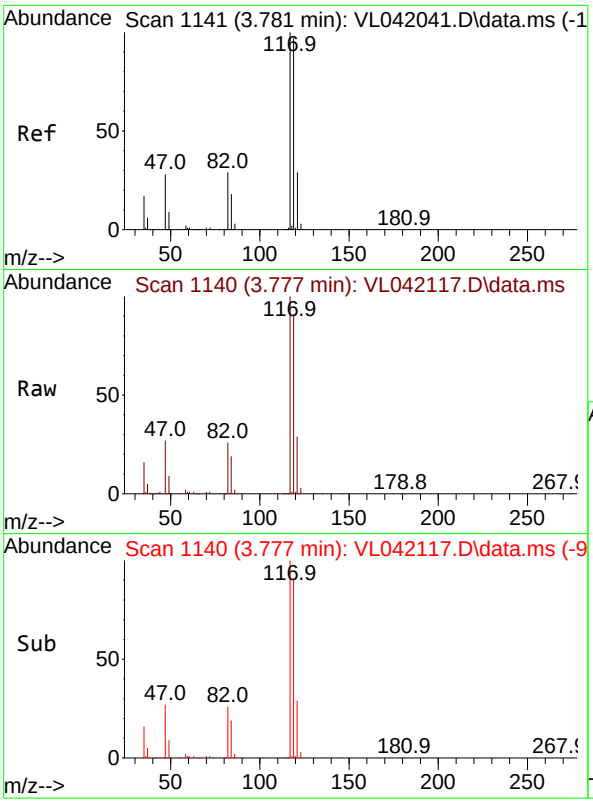


#34
2-Butanone
Concen: 9.118 ppbv
RT: 2.567 min Scan# 766
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 43 Resp: 284384

Ion	Ratio	Lower	Upper
43	100		
72	21.6	18.5	27.7



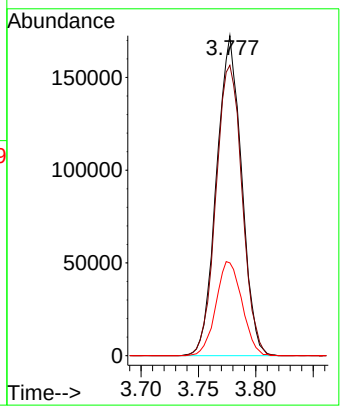


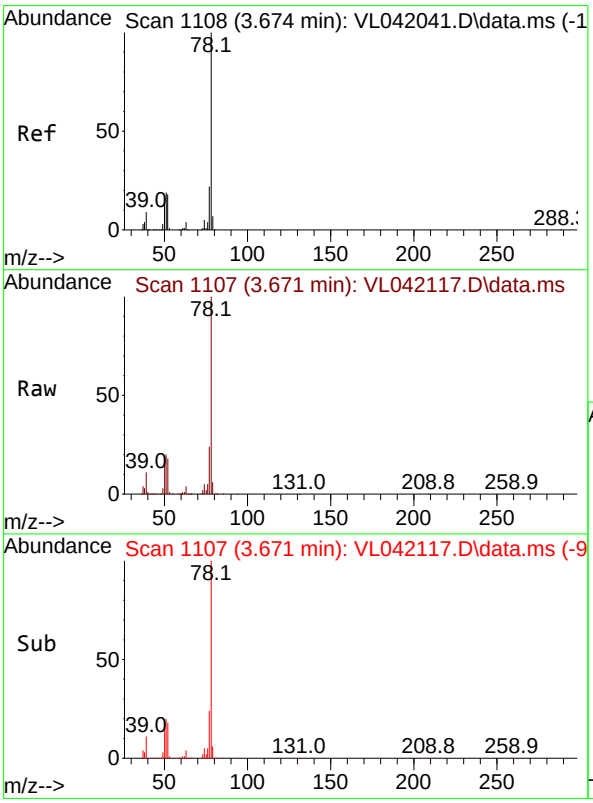
#35
Carbon Tetrachloride
Concen: 9.491 ppbv
RT: 3.777 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:117 Resp: 262027

Ion	Ratio	Lower	Upper
117	100		
119	90.7	77.8	116.8
121	29.0	23.4	35.0

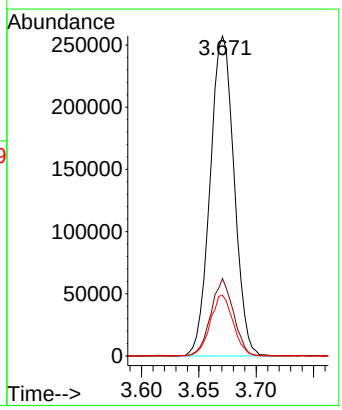


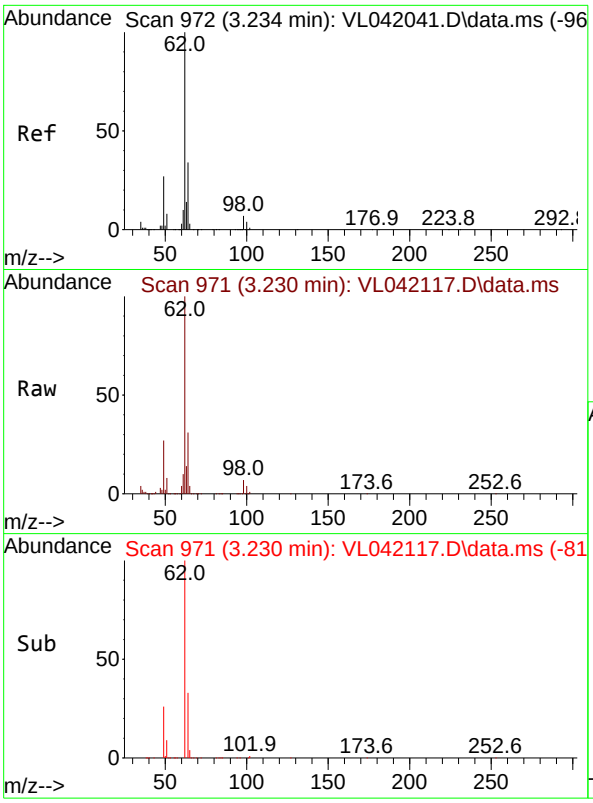


#36
Benzene
Concen: 8.937 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 78 Resp: 374551

Ion	Ratio	Lower	Upper
78	100		
77	24.1	17.7	26.5
50	18.9	13.9	20.9



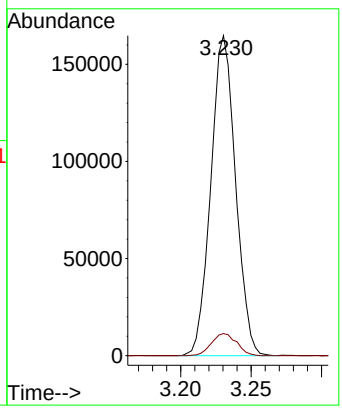


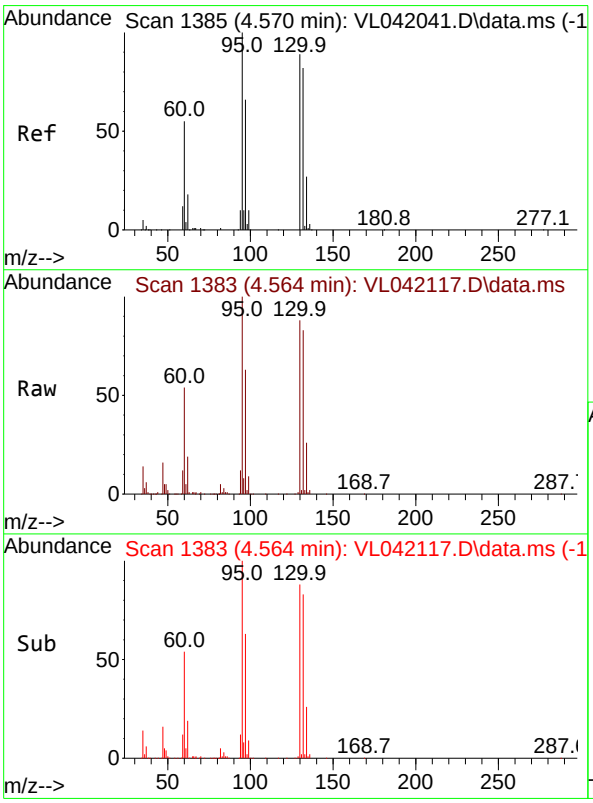
#37
1,2-Dichloroethane
Concen: 8.686 ppbv
RT: 3.230 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 62 Resp: 201838

Ion	Ratio	Lower	Upper
62	100		
98	7.0	5.7	8.5

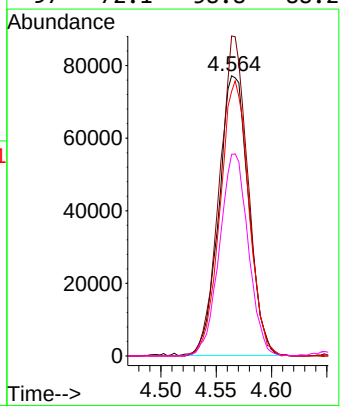


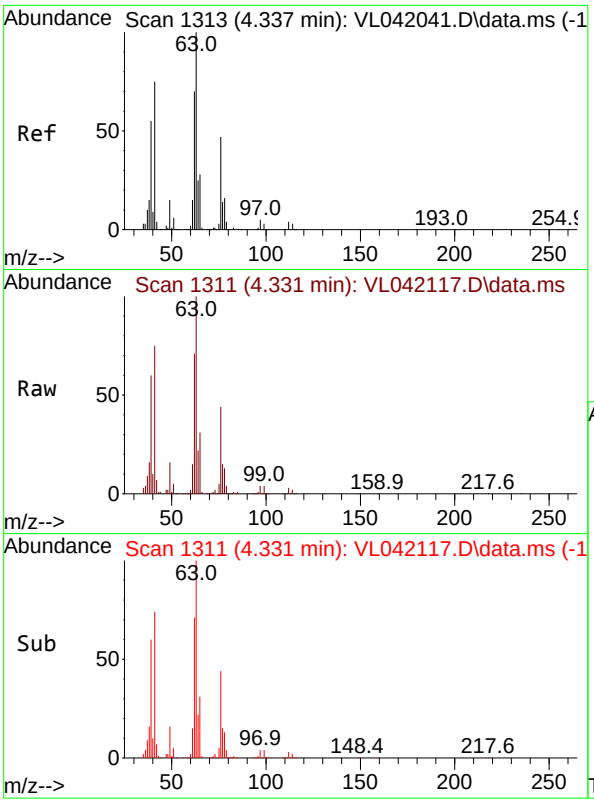


#38
Trichloroethene
Concen: 8.392 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:130 Resp: 143616

Ion	Ratio	Lower	Upper
130	100		
95	114.4	89.5	134.3
132	94.6	73.8	110.6
97	72.1	58.8	88.2



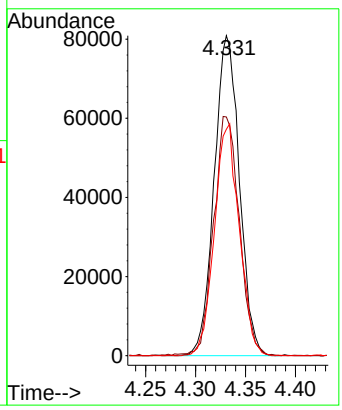


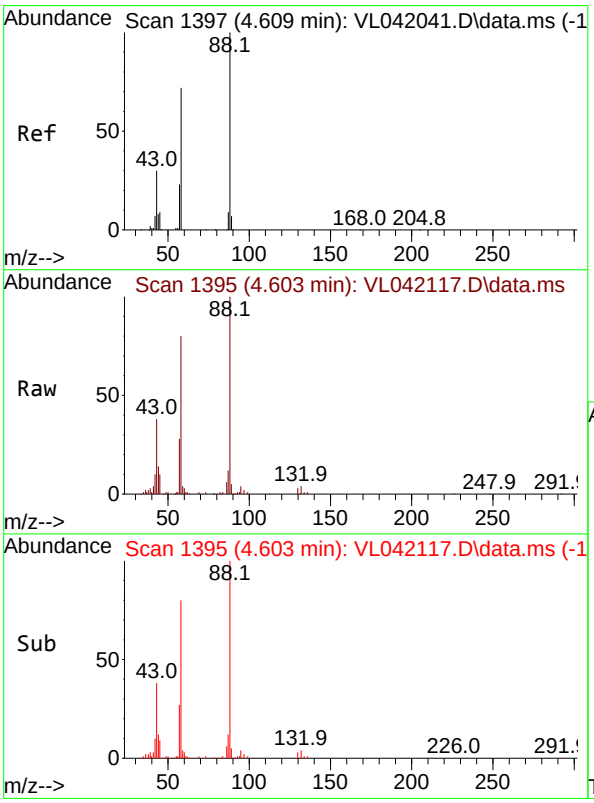
#39
1,2-Dichloropropane
Concen: 8.909 ppbv
RT: 4.331 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 63 Resp: 141729

Ion	Ratio	Lower	Upper
63	100		
41	74.5	60.1	90.1
62	70.8	55.8	83.8

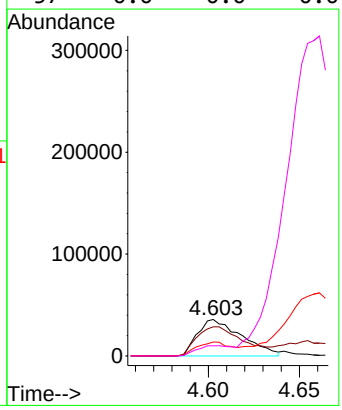


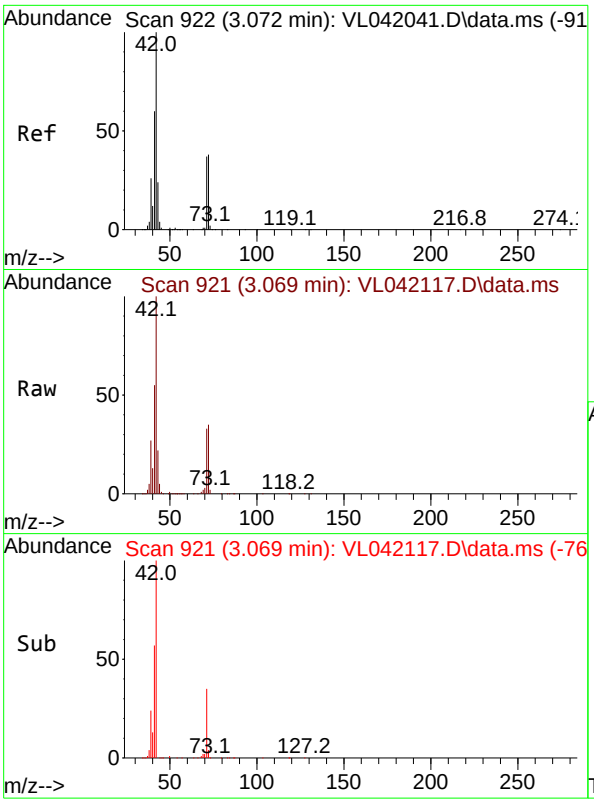


#40
1,4-Dioxane
Concen: 8.321 ppbv
RT: 4.603 min Scan# 1395
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 88 Resp: 60426

Ion	Ratio	Lower	Upper
88	100		
58	89.1	62.6	94.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0



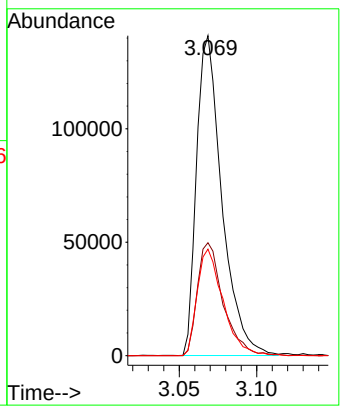


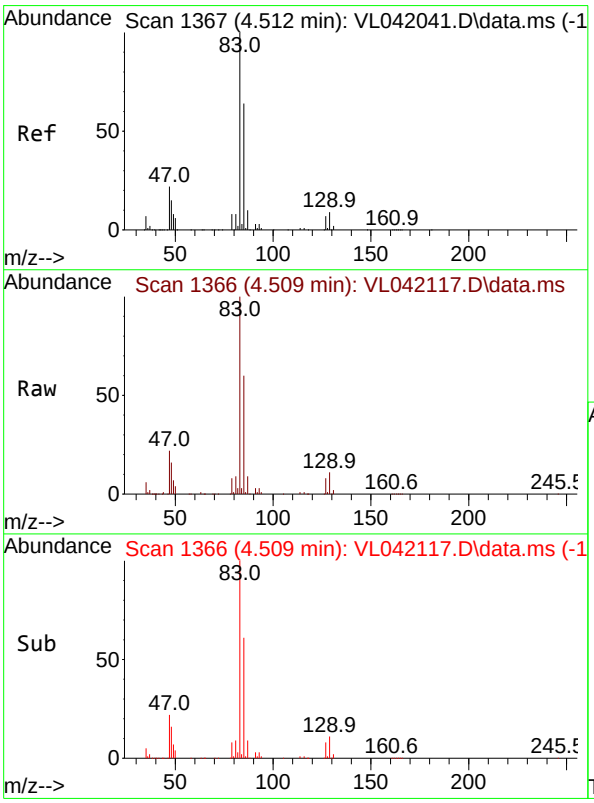
#41
Tetrahydrofuran
Concen: 8.728 ppbv
RT: 3.069 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 42 Resp: 160858

Ion	Ratio	Lower	Upper
42	100		
72	36.0	30.2	45.2
71	34.0	28.2	42.4

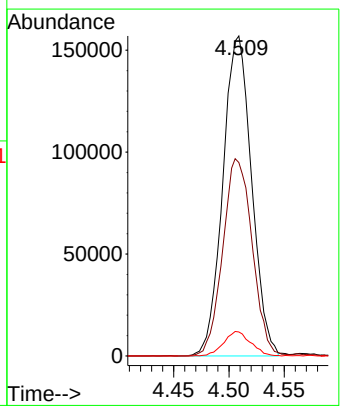


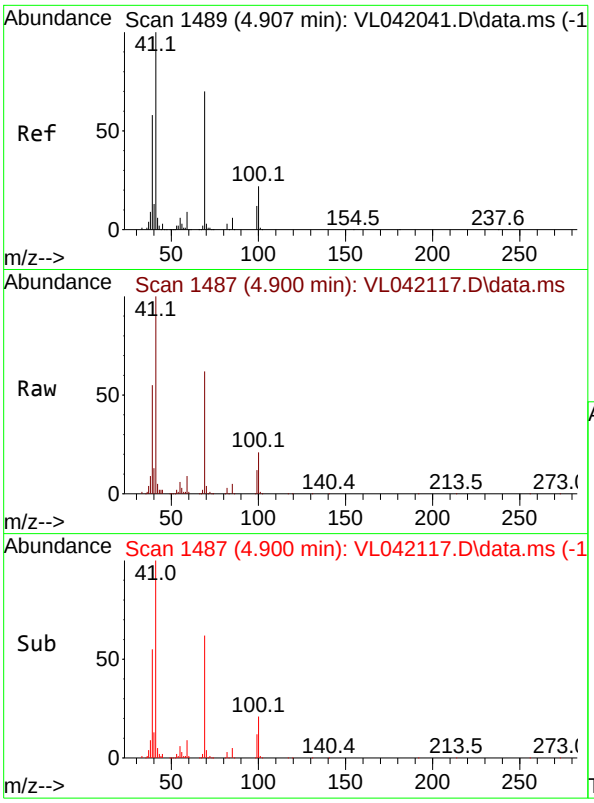


#42
Bromodichloromethane
Concen: 9.063 ppbv
RT: 4.509 min Scan# 1366
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 83 Resp: 283730

Ion	Ratio	Lower	Upper
83	100		
85	60.4	51.4	77.2
127	7.5	5.8	8.6



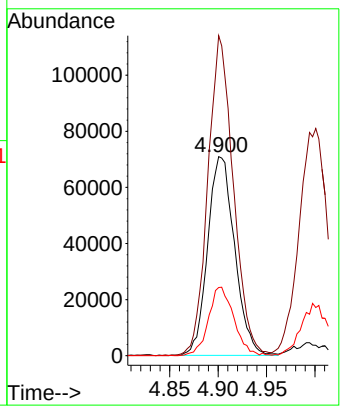


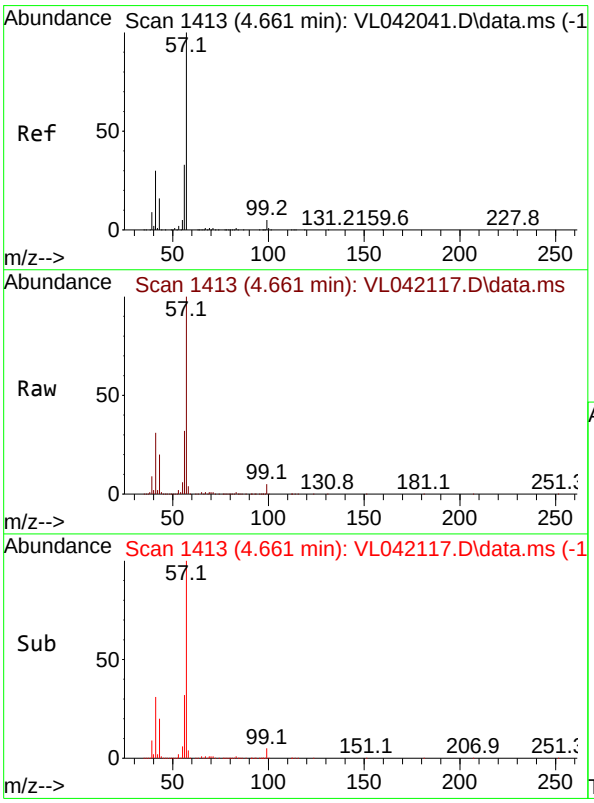
#43
Methyl Methacrylate
Concen: 8.395 ppbv
RT: 4.900 min Scan# 14
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 69 Resp: 137403

Ion	Ratio	Lower	Upper
69	100		
41	152.0	118.2	177.4
100	32.6	27.0	40.4

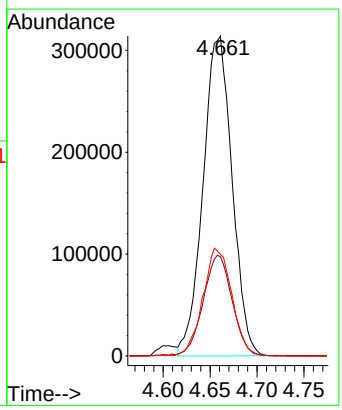


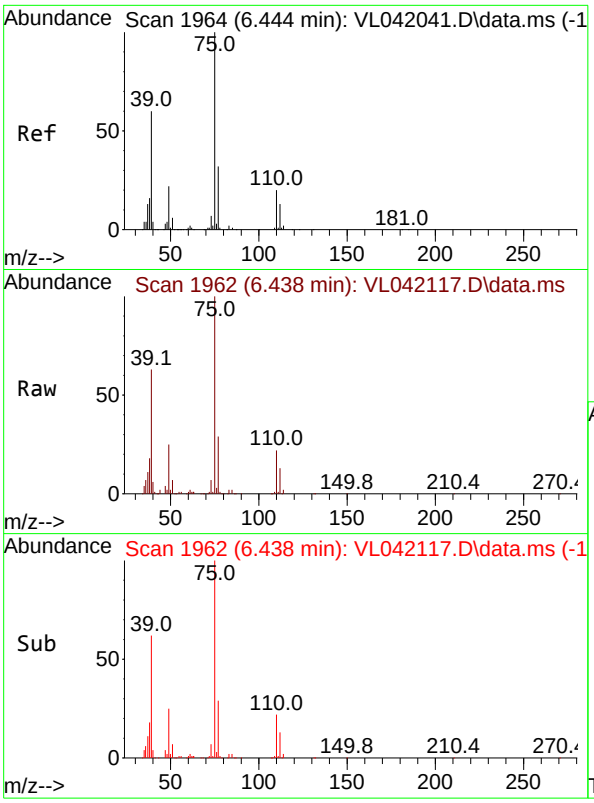


#44
2,2,4-Trimethylpentane
Concen: 9.131 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 57 Resp: 675434

Ion	Ratio	Lower	Upper
57	100		
41	31.6	24.4	36.6
56	33.6	26.5	39.7



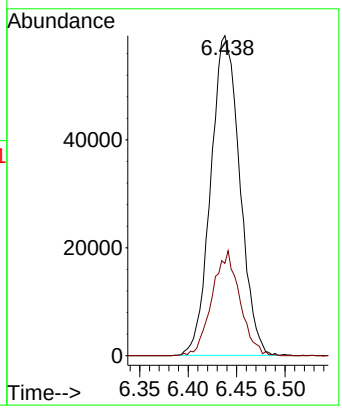


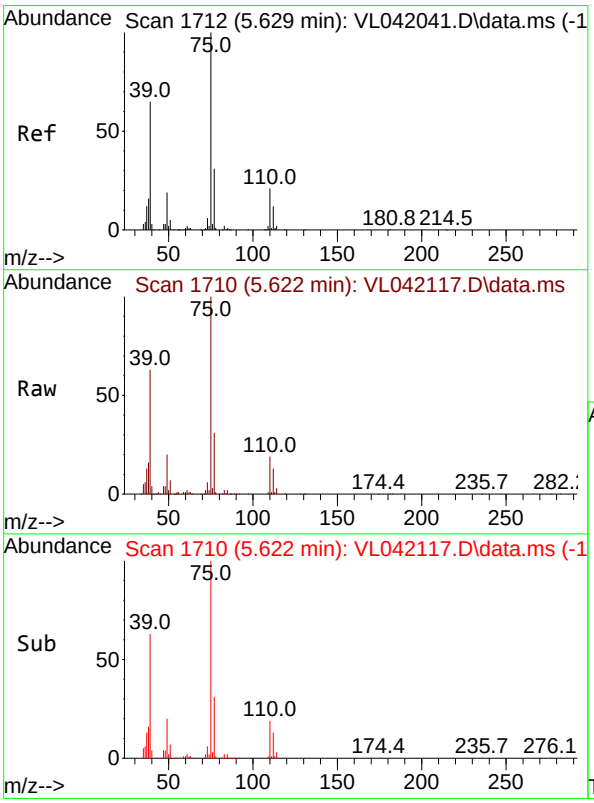
#45
t-1,3-Dichloropropene
Concen: 7.598 ppbv
RT: 6.438 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 75 Resp: 123548

Ion	Ratio	Lower	Upper
75	100		
77	28.8	25.9	38.9

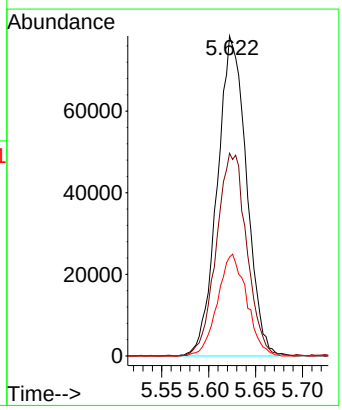


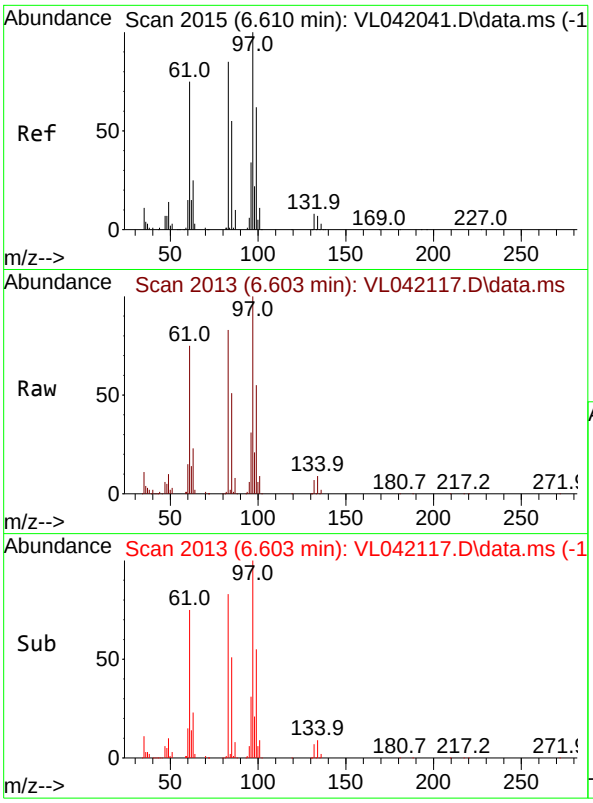


#46
cis-1,3-Dichloropropene
Concen: 8.063 ppbv
RT: 5.622 min Scan# 1710
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 75 Resp: 169656

Ion	Ratio	Lower	Upper
75	100		
39	63.3	51.9	77.9
77	30.9	24.9	37.3



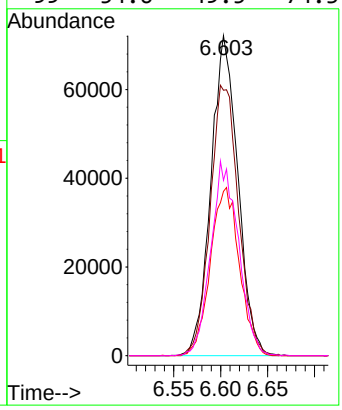


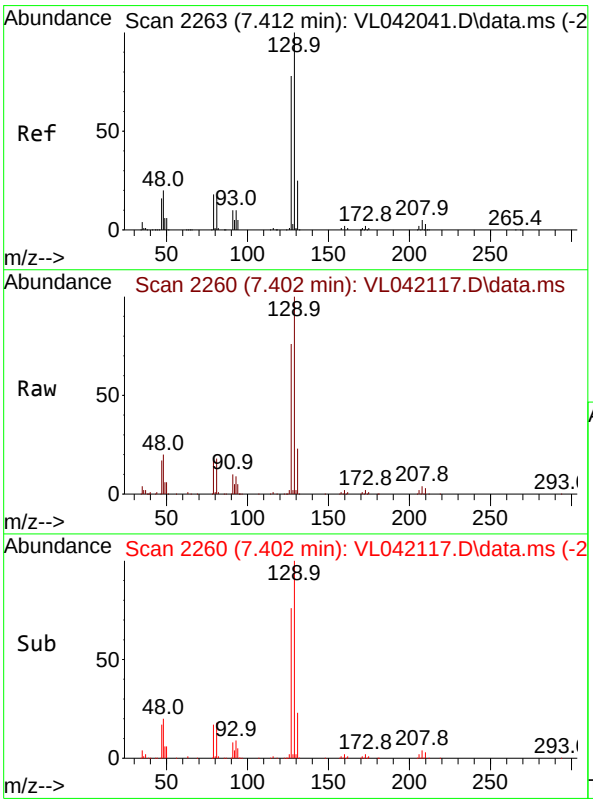
#47
1,1,2-Trichloroethane
Concen: 8.925 ppbv
RT: 6.603 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 97 Resp: 144144

Ion	Ratio	Lower	Upper
97	100		
83	82.9	68.1	102.1
85	51.3	44.0	66.0
99	54.6	49.5	74.3

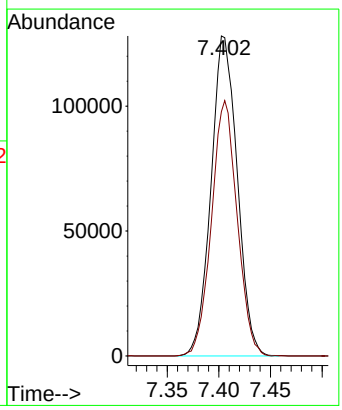


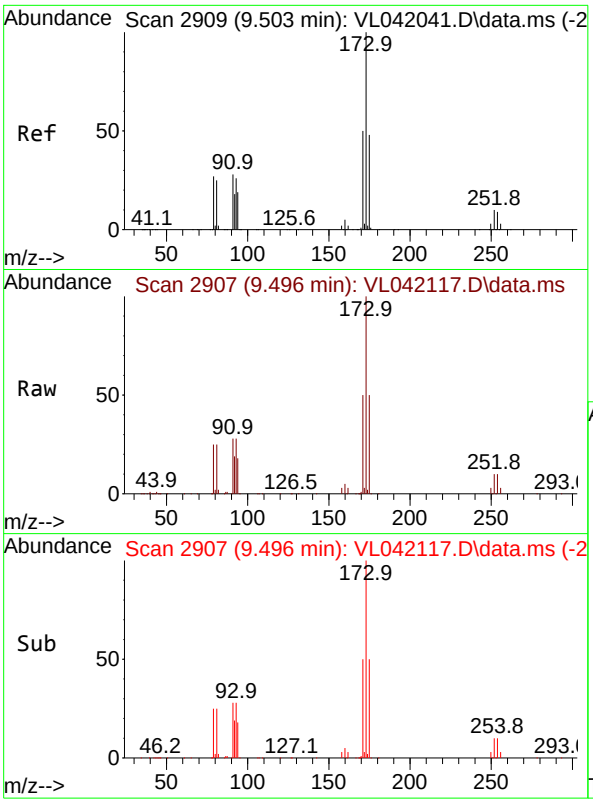


#48
Dibromochloromethane
Concen: 8.951 ppbv
RT: 7.402 min Scan# 2260
Delta R.T. -0.010 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:129 Resp: 226388

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.8



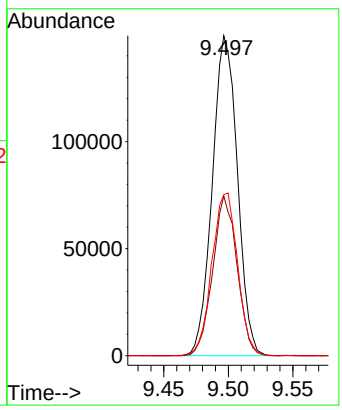


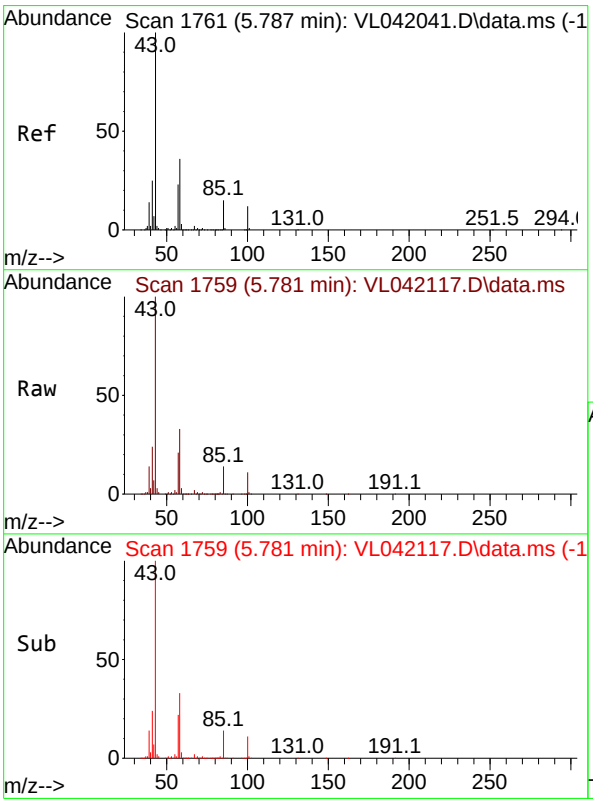
#49
Bromoform
Concen: 9.188 ppbv
RT: 9.496 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:173 Resp: 201809

Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.3	57.5
171	52.1	40.2	60.2

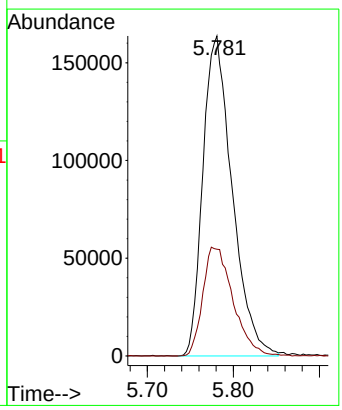


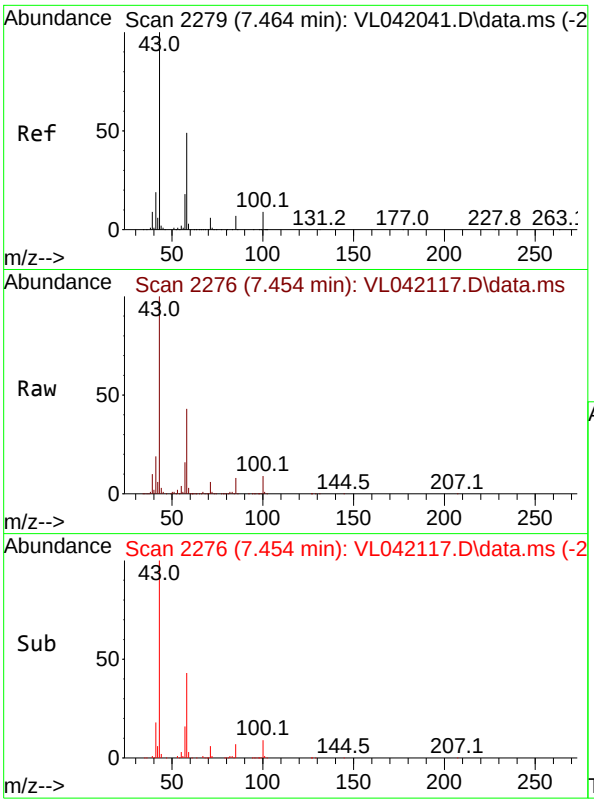


#50
4-Methyl-2-Pentanone
Concen: 9.603 ppbv
RT: 5.781 min Scan# 1759
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 43 Resp: 387370

Ion	Ratio	Lower	Upper
43	100		
58	35.1	29.3	43.9



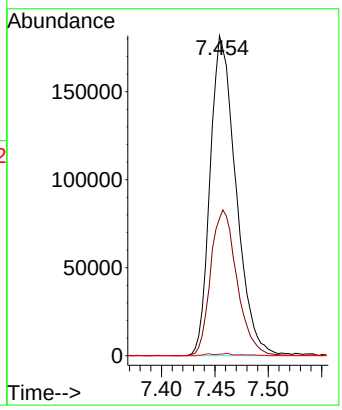


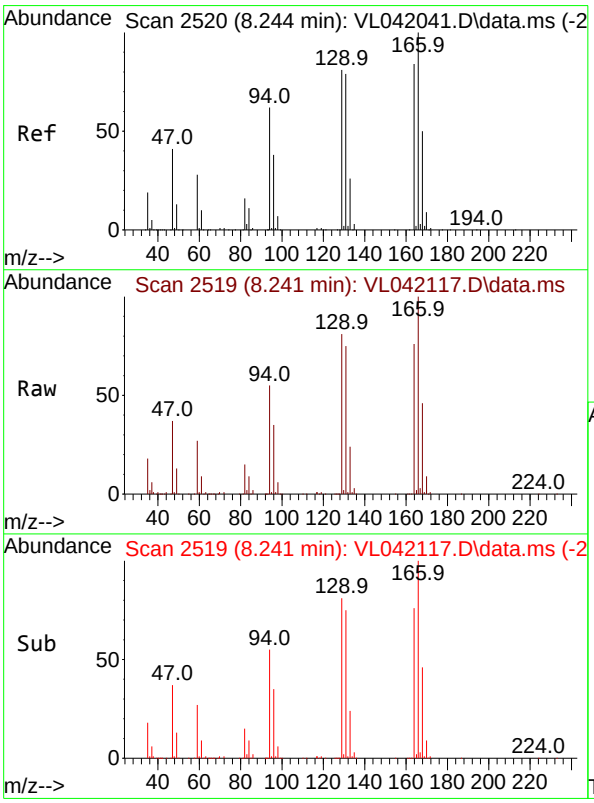
#51
2-Hexanone
Concen: 11.007 ppbv
RT: 7.454 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 43 Resp: 305577

Ion	Ratio	Lower	Upper
43	100		
58	46.7	39.0	58.6
98	0.8	0.1	0.1#

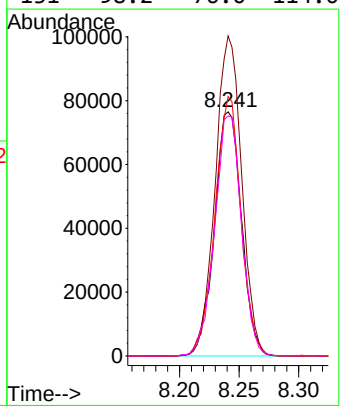


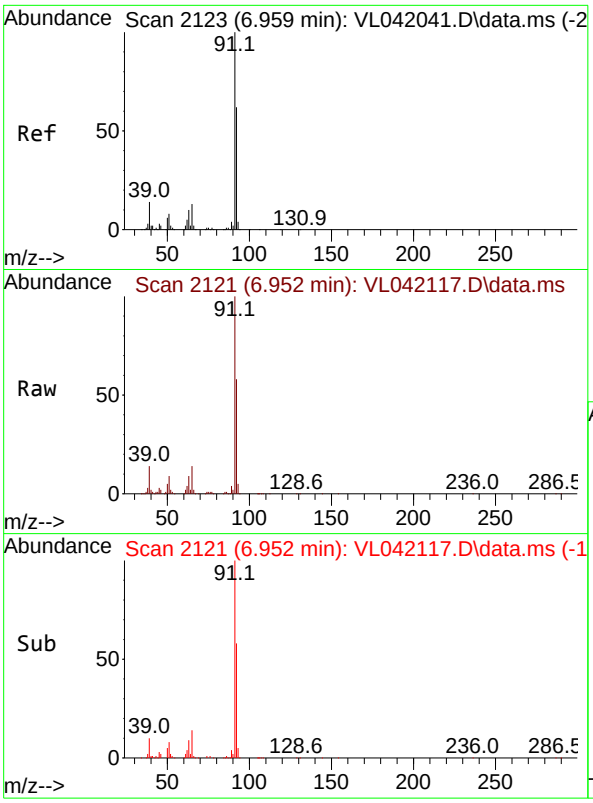


#52
Tetrachloroethene
Concen: 8.398 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:164 Resp: 120494

Ion	Ratio	Lower	Upper
164	100		
166	131.1	95.7	143.5
129	106.2	77.1	115.7
131	98.2	76.0	114.0



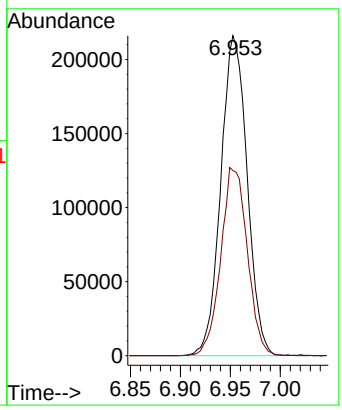


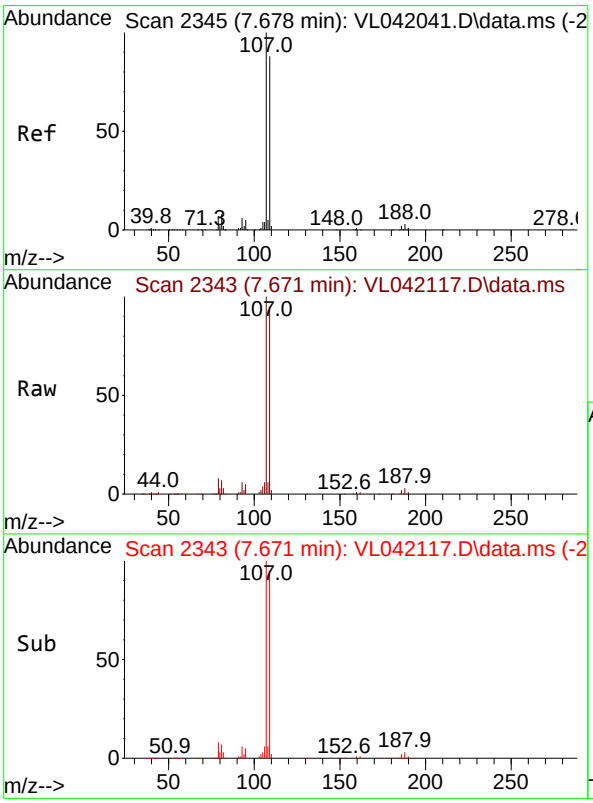
#53
Toluene
Concen: 8.456 ppbv
RT: 6.952 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 91 Resp: 396095

Ion	Ratio	Lower	Upper
91	100		
92	59.3	49.0	73.6

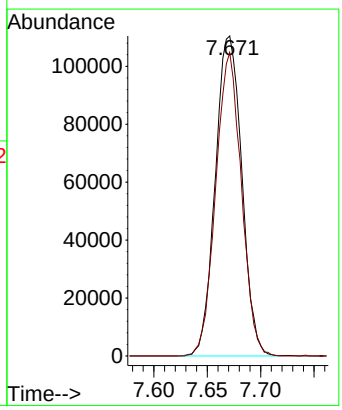


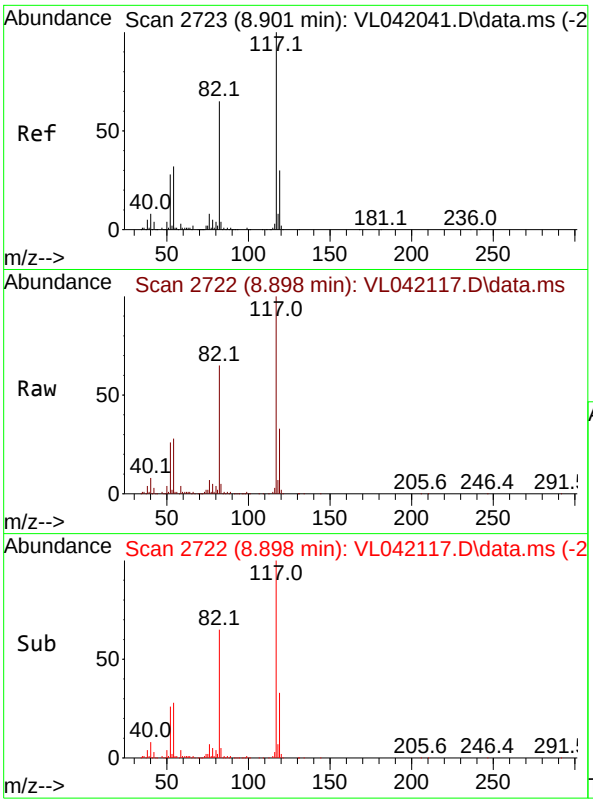


#54
1,2-Dibromoethane
Concen: 8.732 ppbv
RT: 7.671 min Scan# 2343
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:107 Resp: 190659

Ion	Ratio	Lower	Upper
107	100		
109	94.8	70.2	105.4



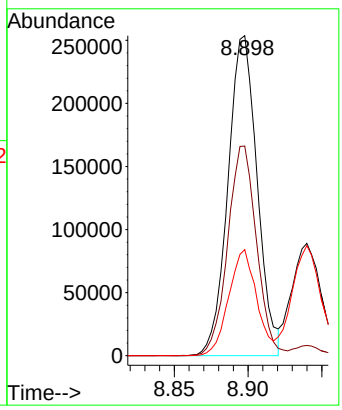


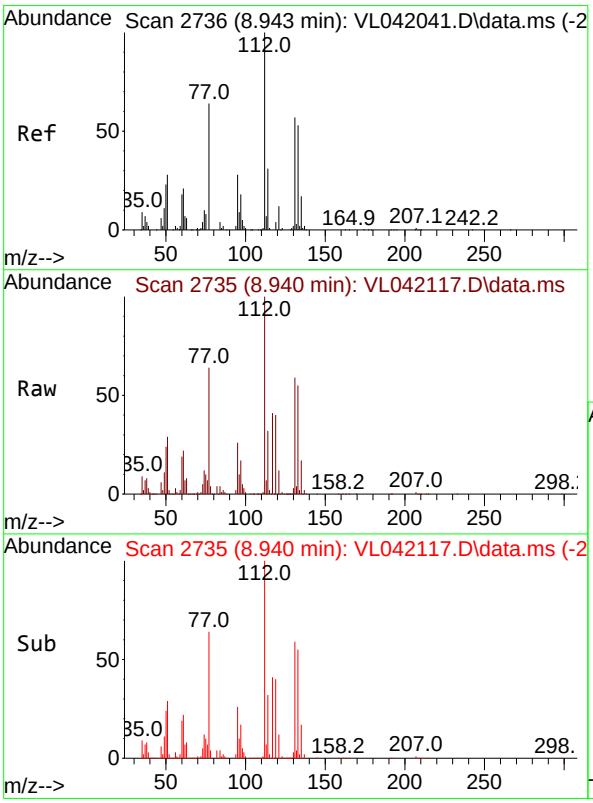
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:117 Resp: 350466

Ion	Ratio	Lower	Upper
117	100		
82	67.6	55.0	82.6
119	31.8	25.9	38.9

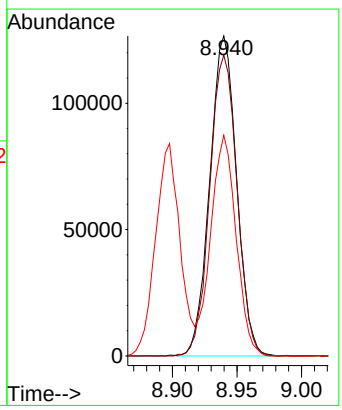


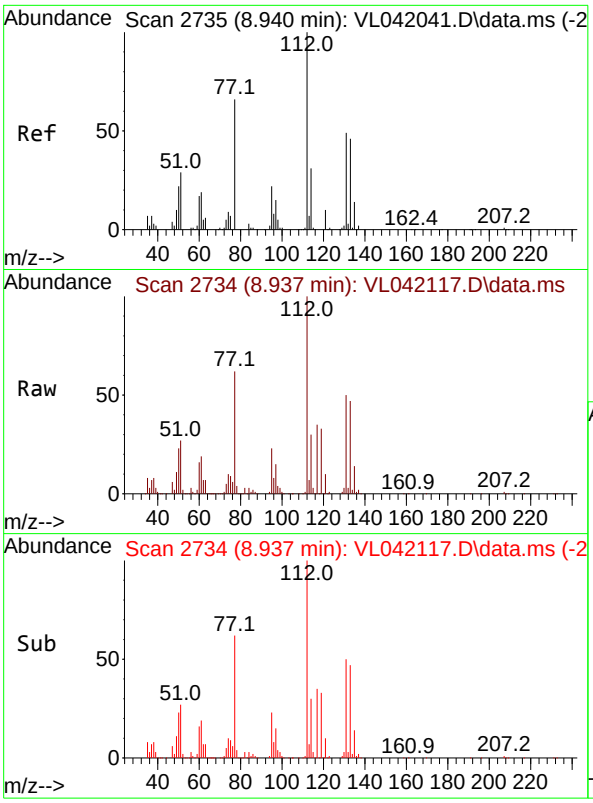


#56
1,1,1,2-Tetrachloroethane
Concen: 9.240 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:131 Resp: 183026

Ion	Ratio	Lower	Upper
131	100		
133	95.3	75.8	113.8
119	65.2	52.1	78.1



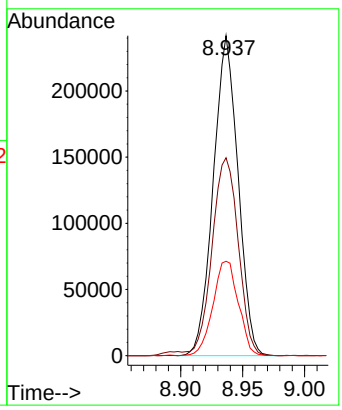


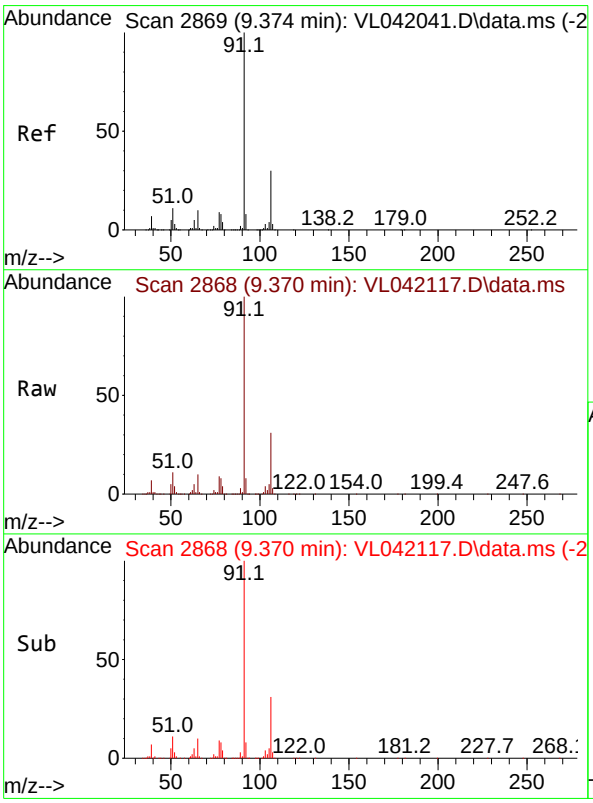
#57
Chlorobenzene
Concen: 9.258 ppbv
RT: 8.937 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:112 Resp: 336406

Ion	Ratio	Lower	Upper
112	100		
77	61.8	53.4	80.2
114	29.5	28.3	34.5

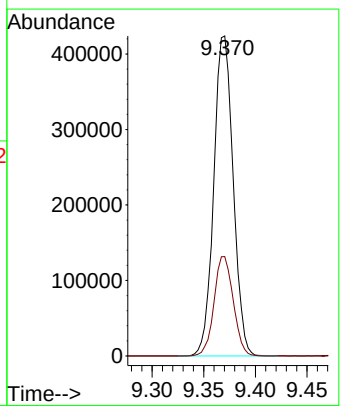


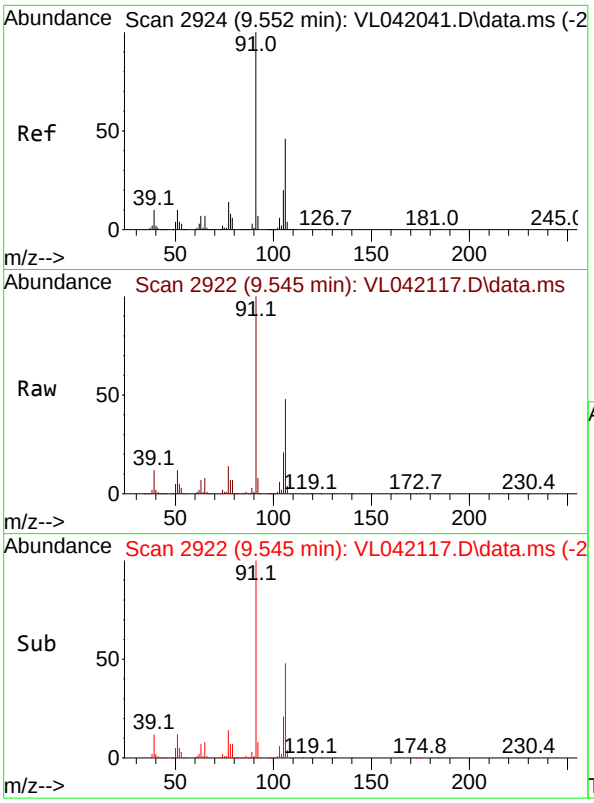


#58
Ethyl Benzene
Concen: 8.590 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 554446

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.2	36.2



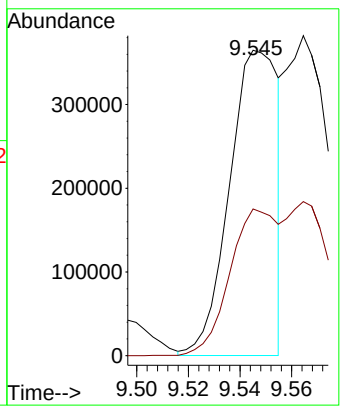


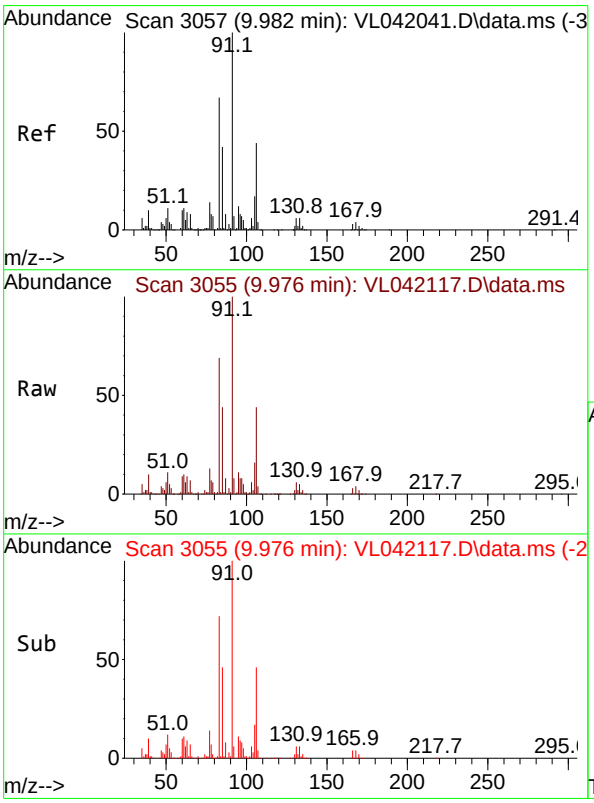
#59
m/p-Xylene
Concen: 9.221 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 91 Resp: 473623

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

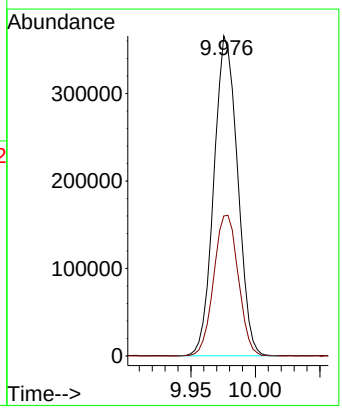


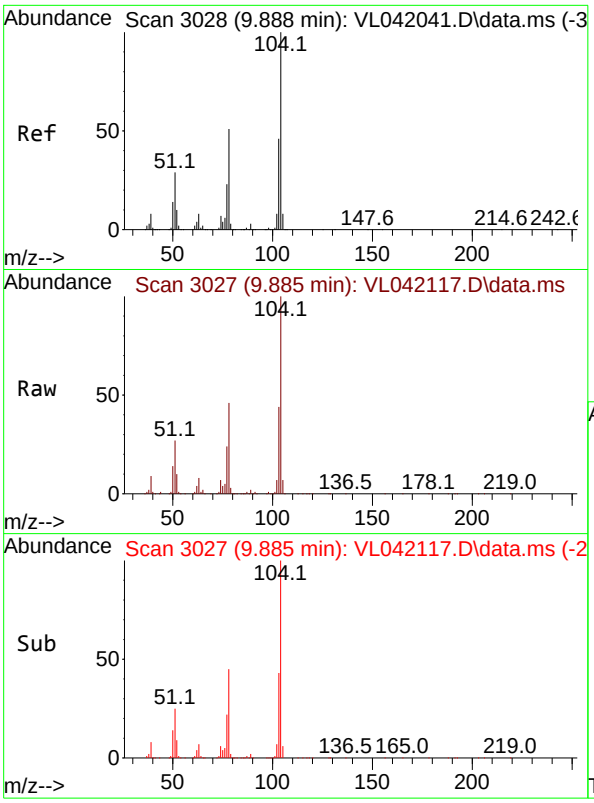


#60
o-Xylene
Concen: 9.052 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 467382

Ion	Ratio	Lower	Upper
91	100		
106	45.6	22.3	66.8



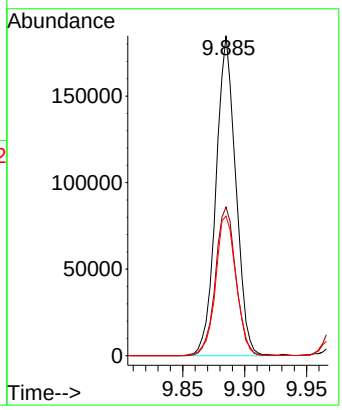


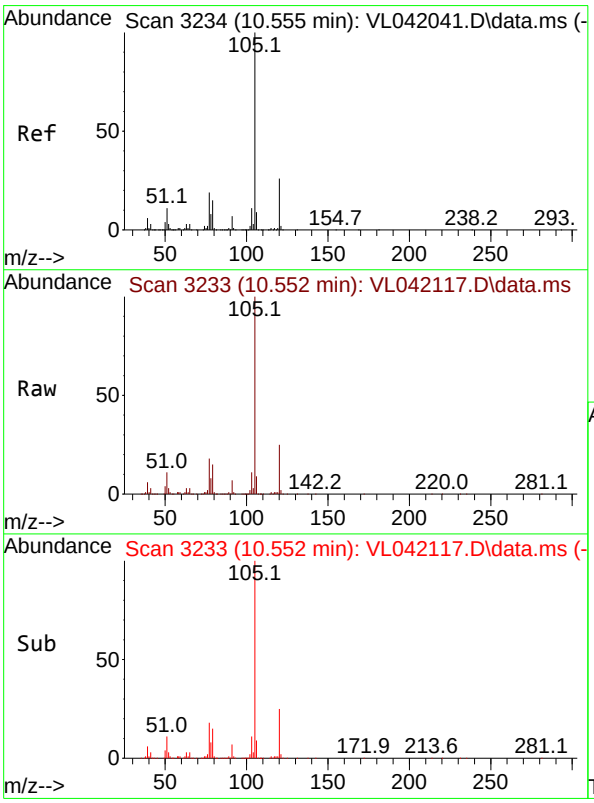
#61
Styrene
Concen: 8.469 ppbv
RT: 9.885 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:104 Resp: 205606

Ion	Ratio	Lower	Upper
104	100		
78	48.1	41.0	61.4
103	45.6	37.0	55.6

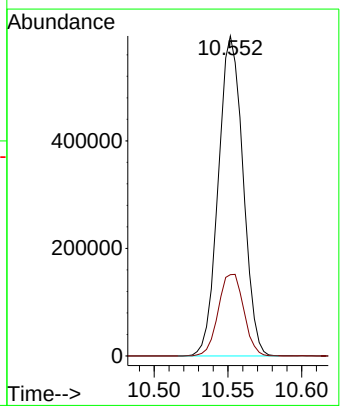


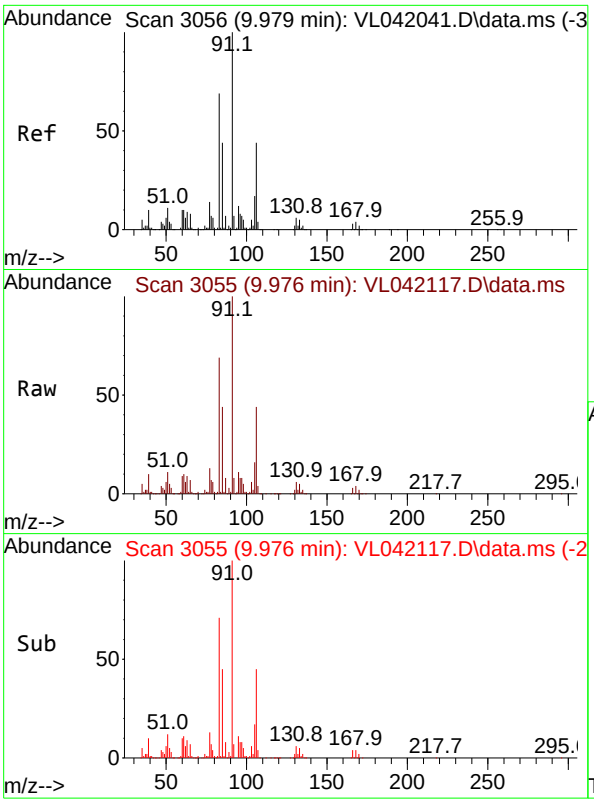


#62
Isopropylbenzene
Concen: 8.950 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:105 Resp: 692094

Ion	Ratio	Lower	Upper
105	100		
120	26.4	20.7	31.1



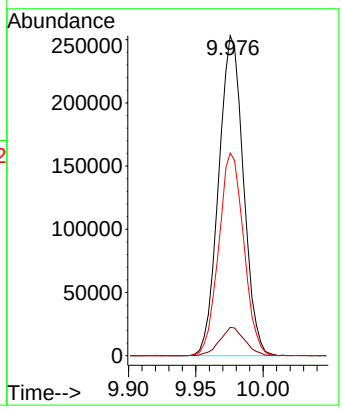


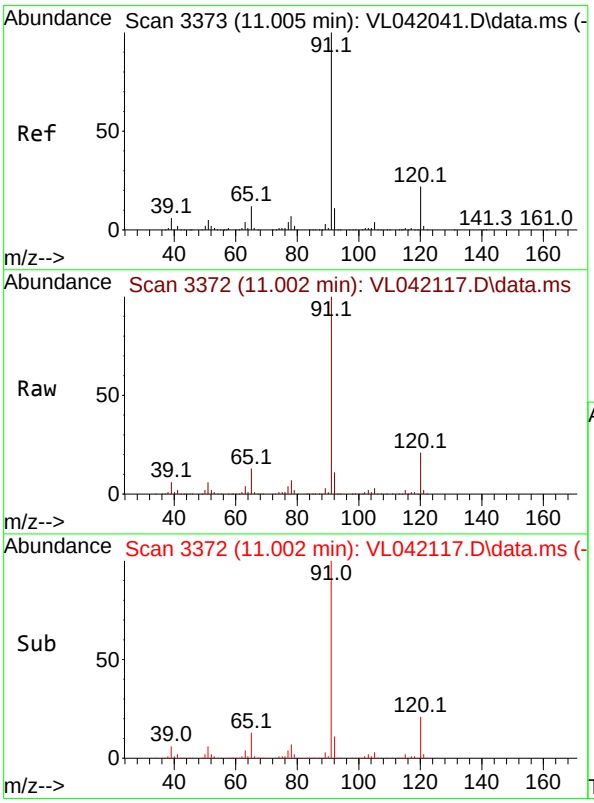
#63
1,1,2,2-Tetrachloroethane
Concen: 9.504 ppbv
RT: 9.976 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 83 Resp: 323193

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.7
85	64.0	32.1	96.3

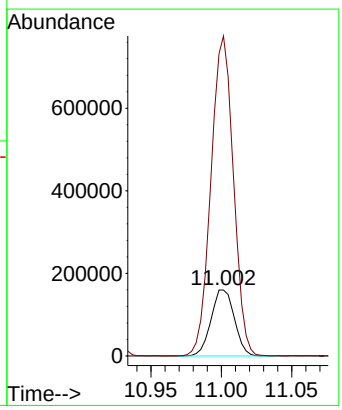


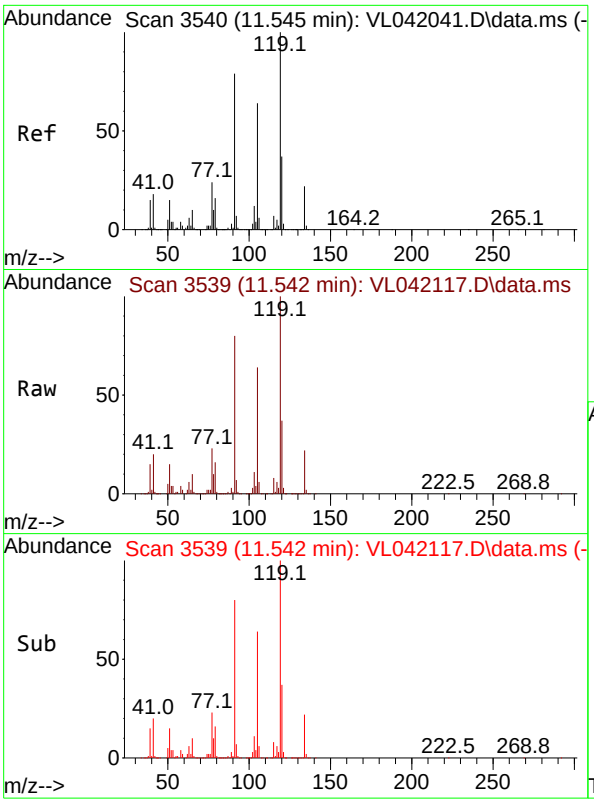


#64
n-propylbenzene
Concen: 9.081 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:120 Resp: 184209

Ion	Ratio	Lower	Upper
120	100		
91	466.7	370.6	556.0



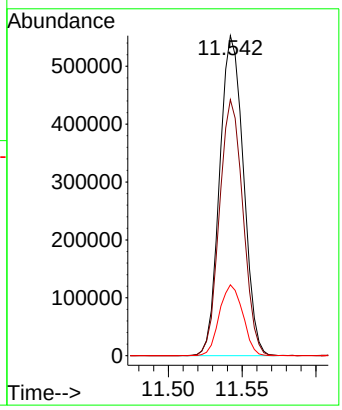


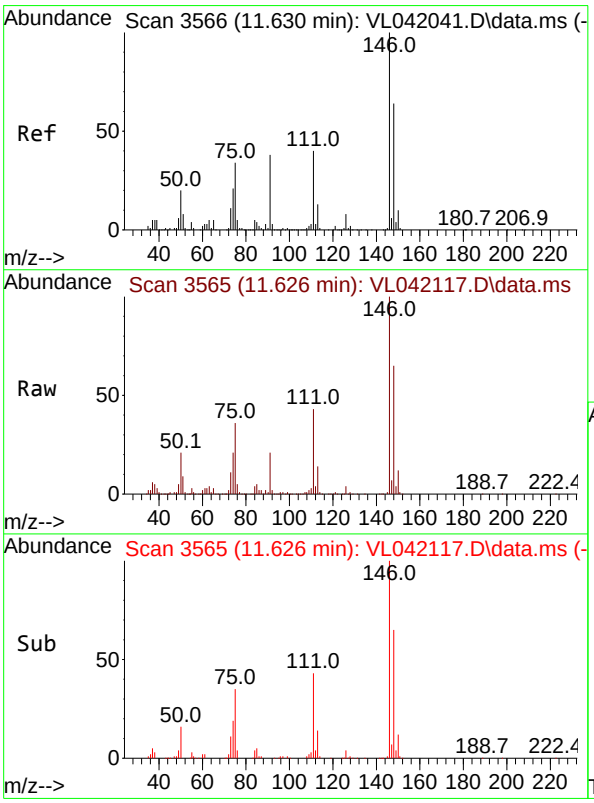
#65
tert-Butylbenzene
Concen: 8.814 ppbv
RT: 11.542 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:119 Resp: 620355

Ion	Ratio	Lower	Upper
119	100		
91	79.1	64.2	96.2
134	21.8	17.4	26.2

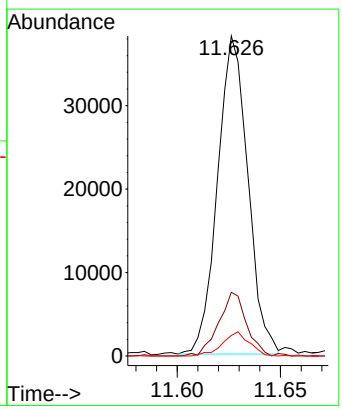


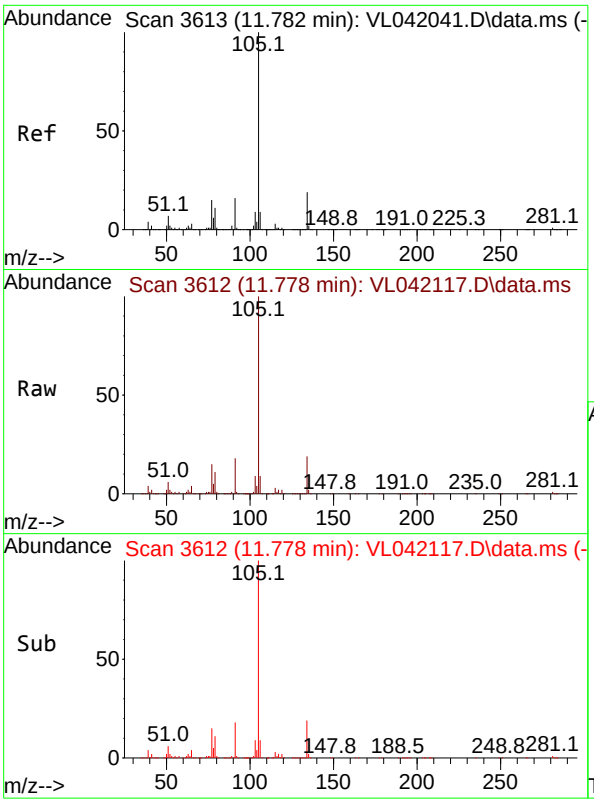


#66
Benzyl Chloride
Concen: 7.252 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 38948

Ion	Ratio	Lower	Upper
91	100		
126	18.4	14.5	21.7
128	6.8	5.4	8.2



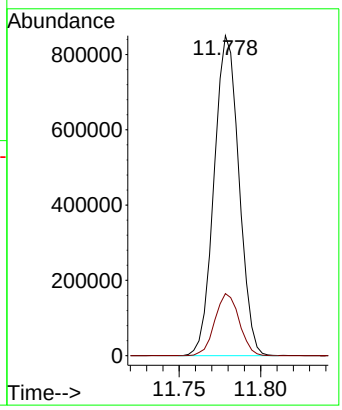


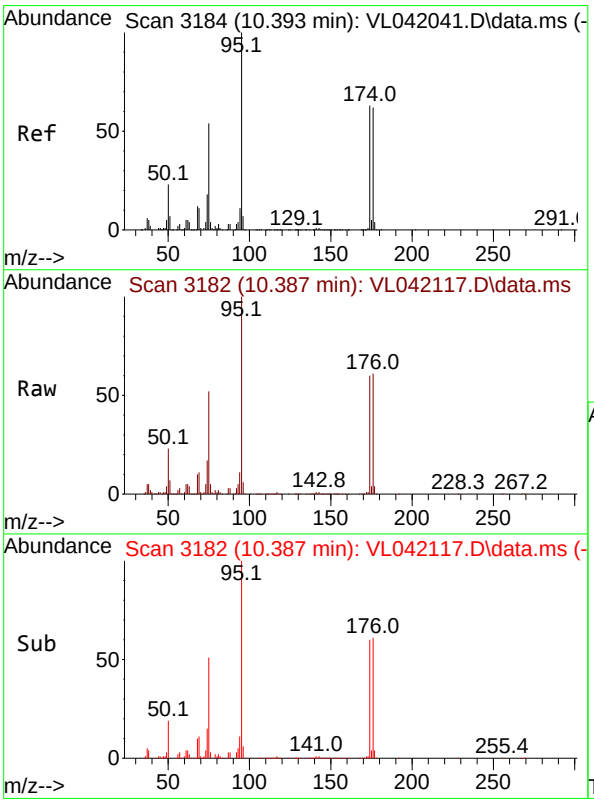
#67
sec-Butylbenzene
Concen: 8.942 ppbv
RT: 11.778 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:105 Resp: 900003

Ion	Ratio	Lower	Upper
105	100		
134	19.1	14.9	22.3

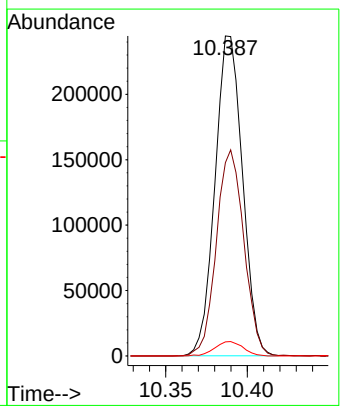


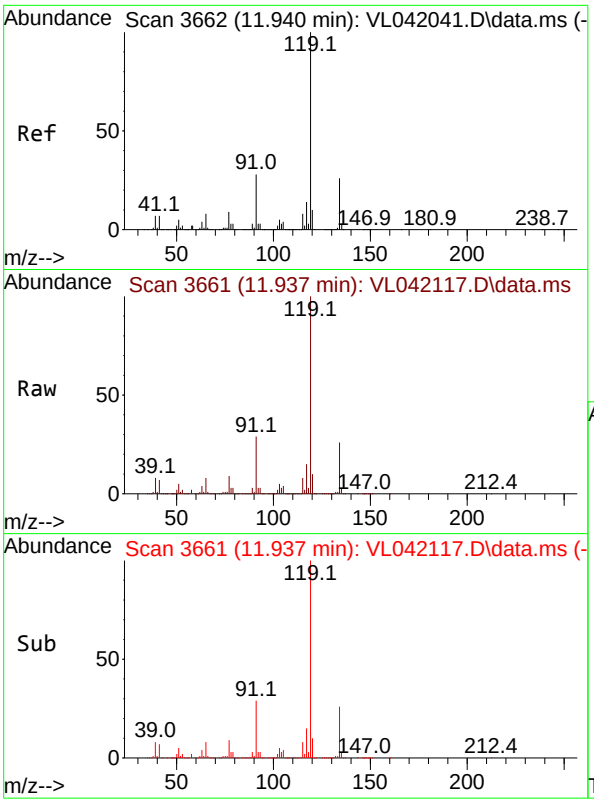


#68
1-Bromo-4-Fluorobenzene
Concen: 10.641 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. -0.007 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 95 Resp: 286905

Ion	Ratio	Lower	Upper
95	100		
174	64.6	51.8	77.6
175	4.7	3.9	5.9



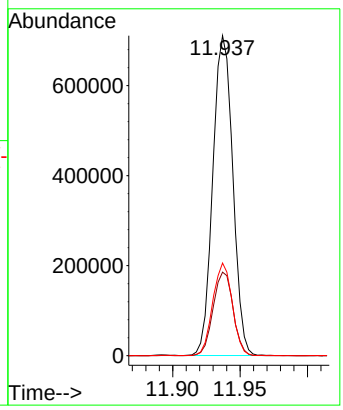


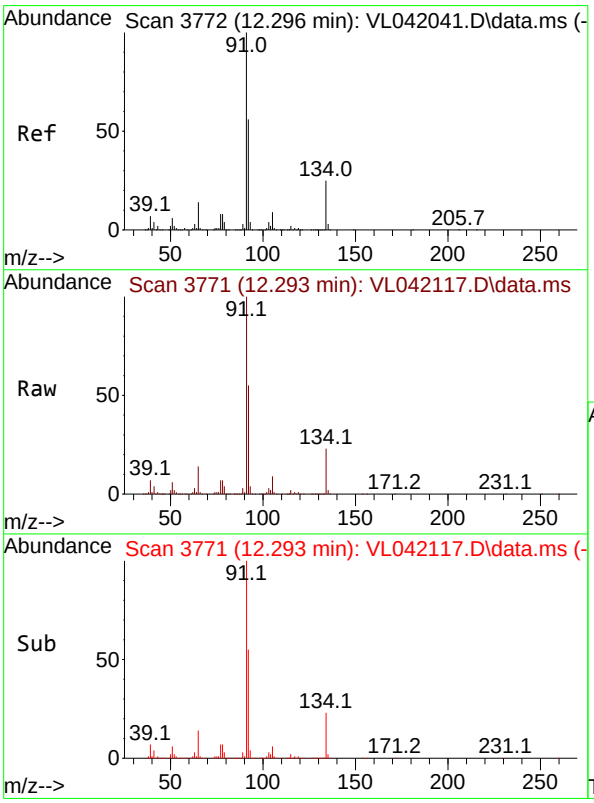
#69
p-Isopropyltoluene
Concen: 9.145 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:119 Resp: 732332

Ion	Ratio	Lower	Upper
119	100		
134	26.3	20.9	31.3
91	28.3	23.1	34.7

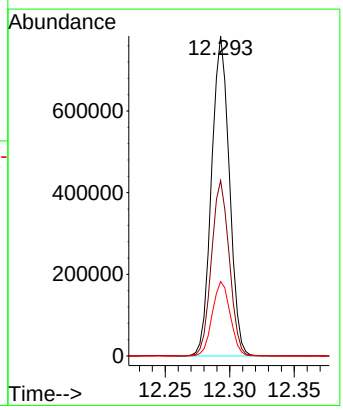


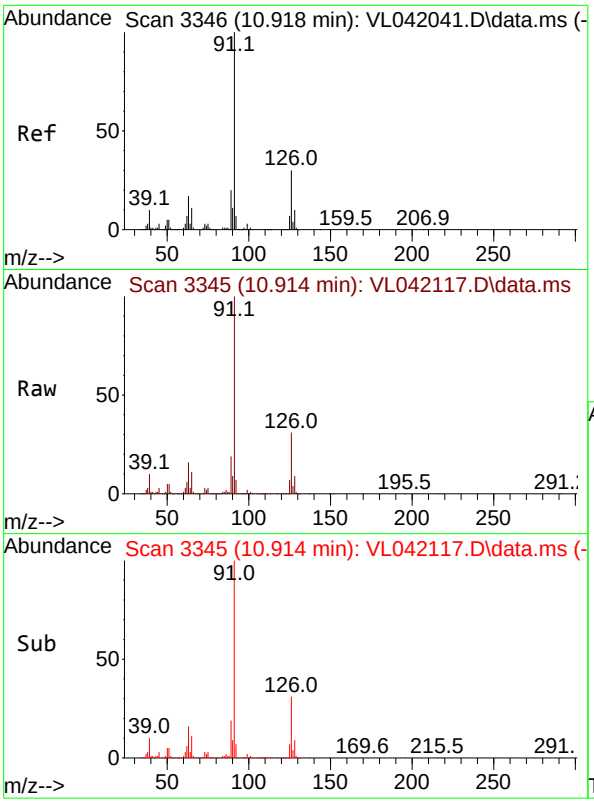


#70
n-Butylbenzene
Concen: 9.208 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion: 91 Resp: 752707

Ion	Ratio	Lower	Upper
91	100		
92	54.6	44.7	67.1
134	23.4	18.9	28.3



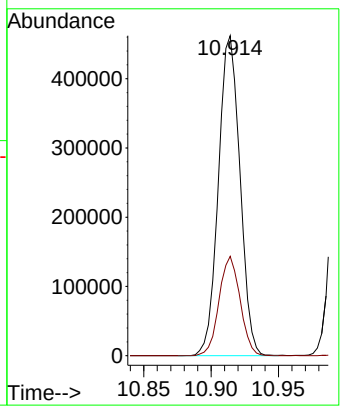


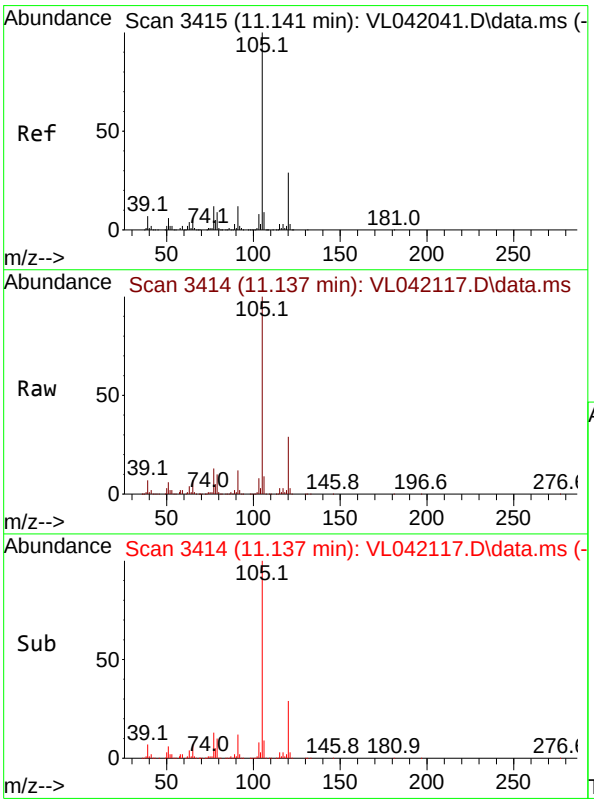
#71
2-Chlorotoluene
Concen: 8.624 ppbv
RT: 10.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion: 91 Resp: 514130

Ion	Ratio	Lower	Upper
91	100		
126	30.3	11.9	47.5

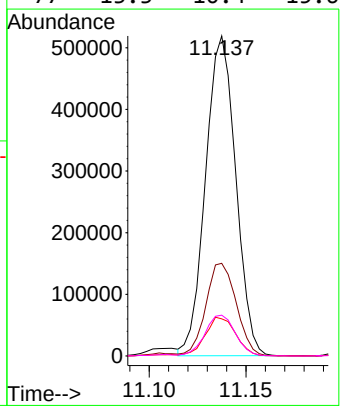


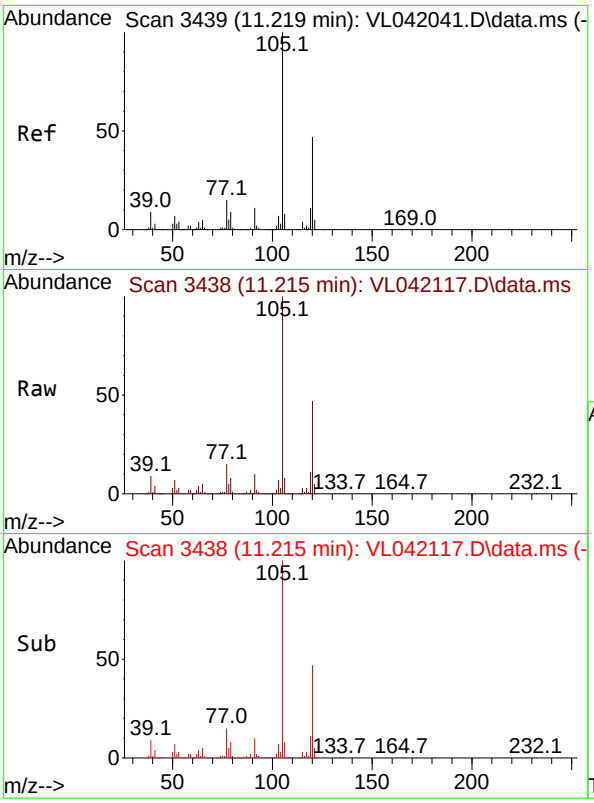


#72
4-Ethyltoluene
Concen: 8.919 ppbv
RT: 11.137 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:105 Resp: 562308

Ion	Ratio	Lower	Upper
105	100		
120	30.0	24.1	36.1
91	12.7	10.2	15.4
77	13.3	10.4	15.6



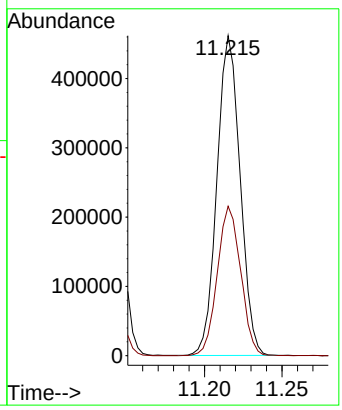


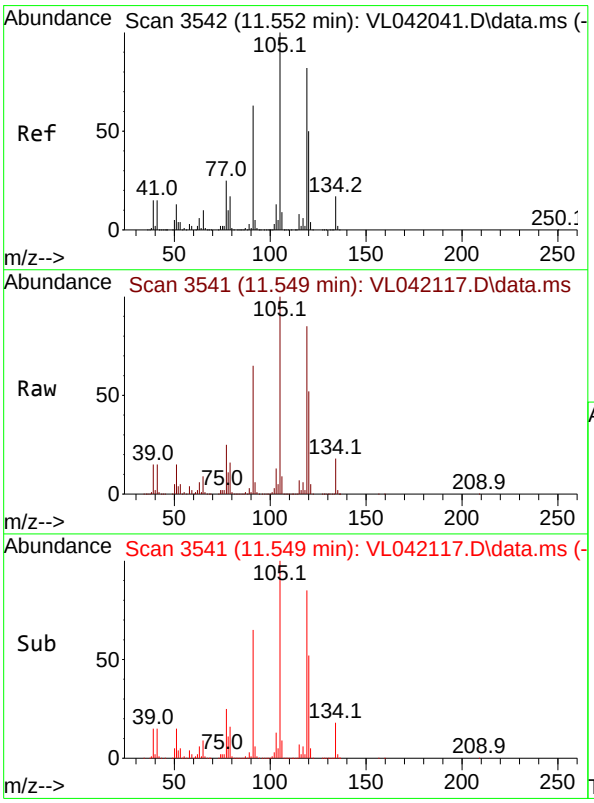
#73
1,3,5-Trimethylbenzene
Concen: 8.795 ppbv
RT: 11.215 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:105 Resp: 480973

Ion	Ratio	Lower	Upper
105	100		
120	46.7	37.4	56.0

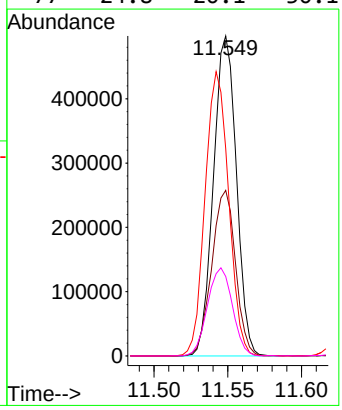


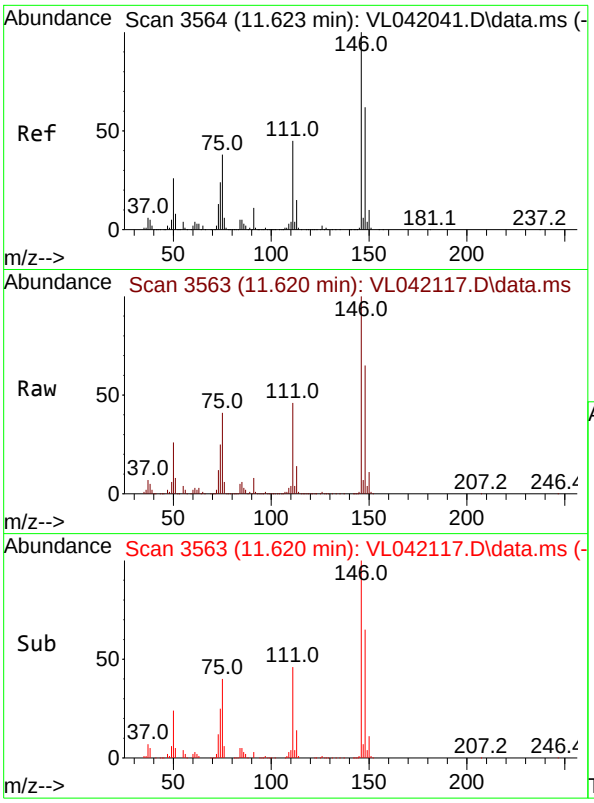


#74
1,2,4-Trimethylbenzene
Concen: 8.747 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:105 Resp: 538676

Ion	Ratio	Lower	Upper
105	100		
120	51.7	40.2	60.2
91	64.7	51.4	77.2
77	24.8	20.1	30.1



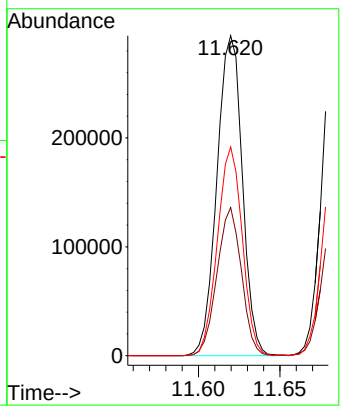


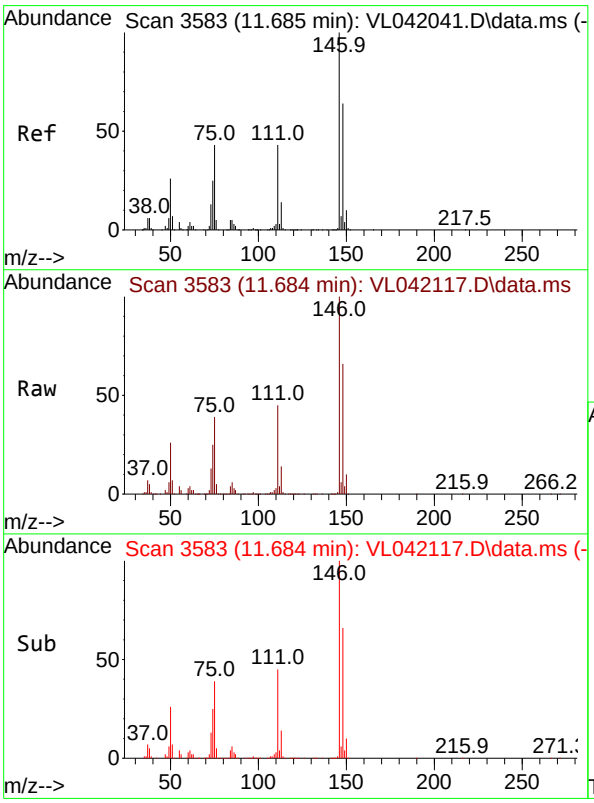
#75
1,3-Dichlorobenzene
Concen: 9.000 ppbv
RT: 11.620 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:146 Resp: 318968

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.4	67.2
148	63.8	32.3	96.8

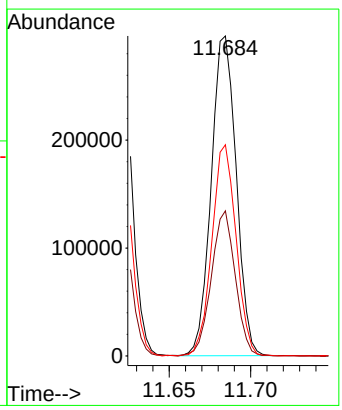


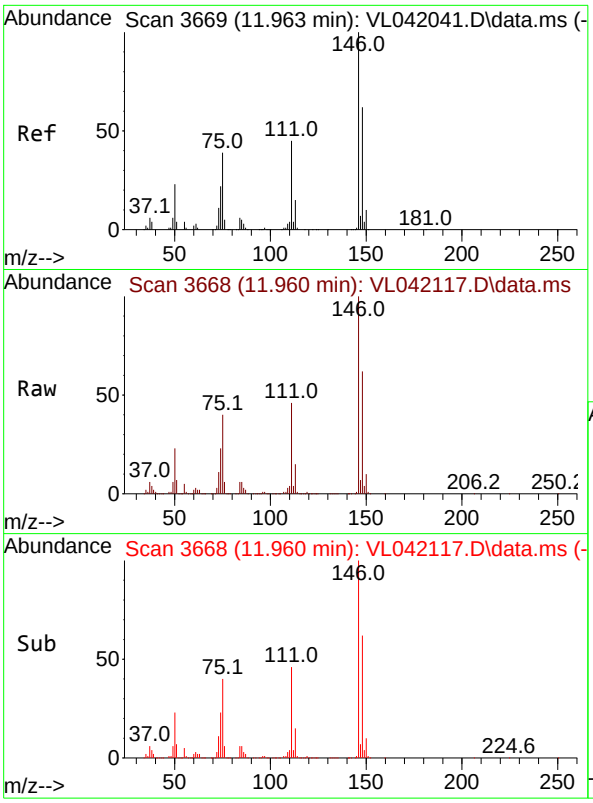


#76
1,4-Dichlorobenzene
Concen: 8.976 ppbv
RT: 11.684 min Scan# 3583
Delta R.T. -0.000 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:146 Resp: 315833

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.5	64.5
148	64.2	31.6	95.0



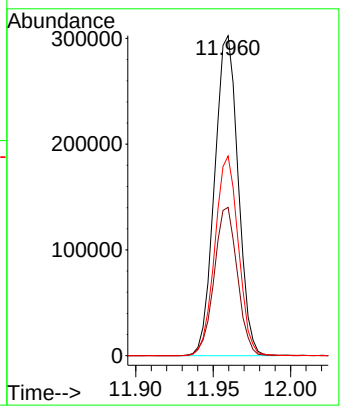


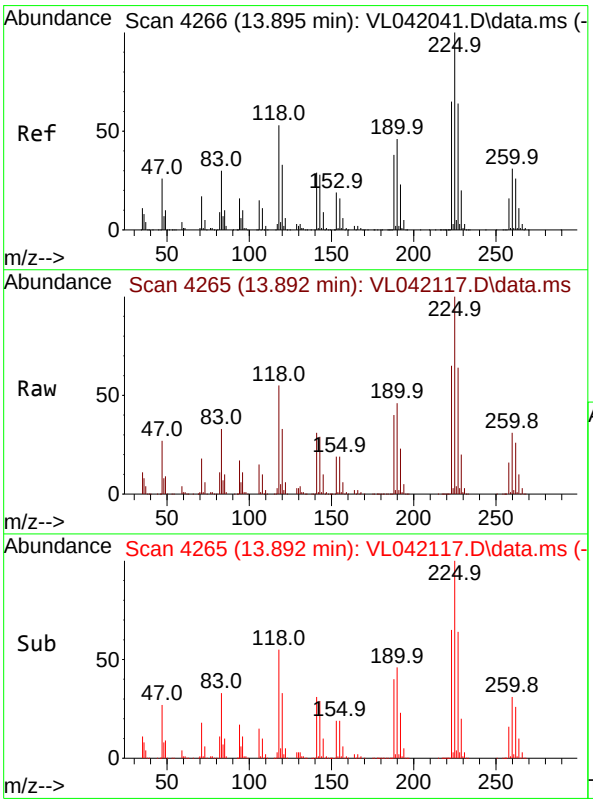
#77
1,2-Dichlorobenzene
Concen: 9.299 ppbv
RT: 11.960 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:146 Resp: 319838

Ion	Ratio	Lower	Upper
146	100		
111	45.9	23.2	69.6
148	62.3	31.4	94.2

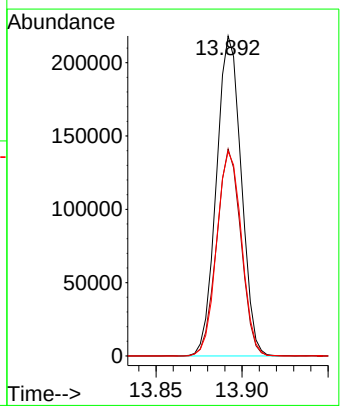


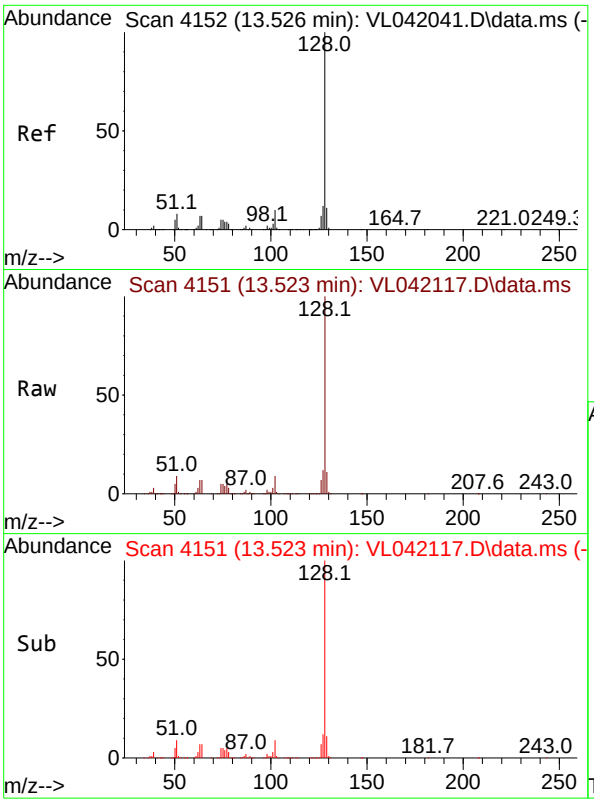


#78
Hexachloro-1,3-Butadiene
Concen: 8.187 ppbv
RT: 13.892 min Scan# 4265
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:225 Resp: 219090

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.2	75.2
227	63.8	50.8	76.2



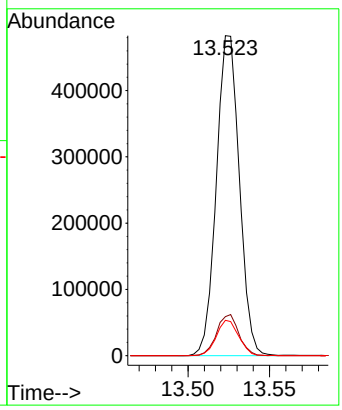


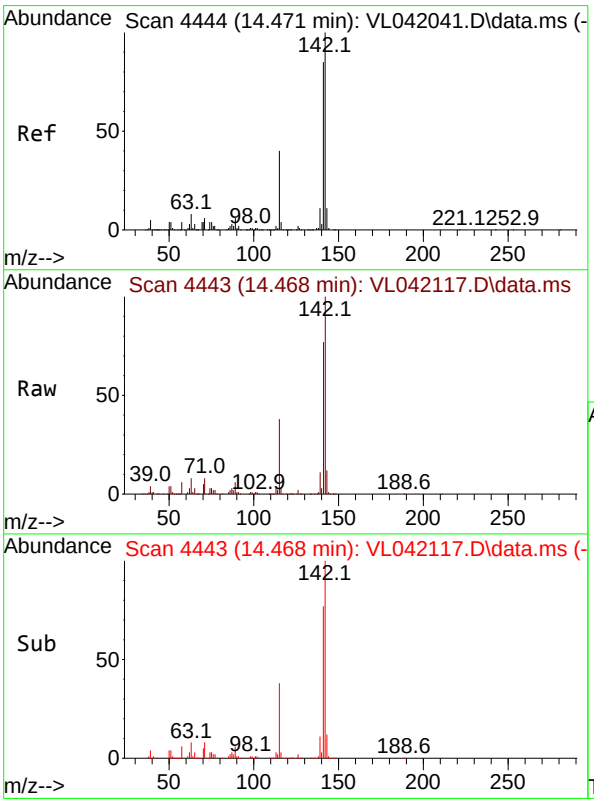
#79
Naphthalene
Concen: 11.191 ppbv
RT: 13.523 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:128 Resp: 472554

Ion	Ratio	Lower	Upper
128	100		
127	12.2	9.8	14.6
129	11.0	8.6	12.8

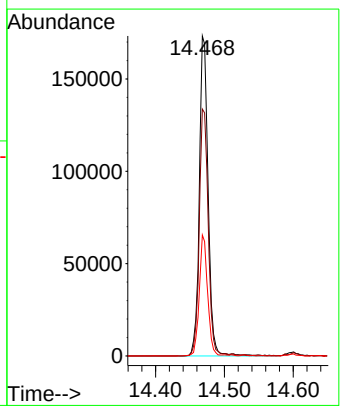


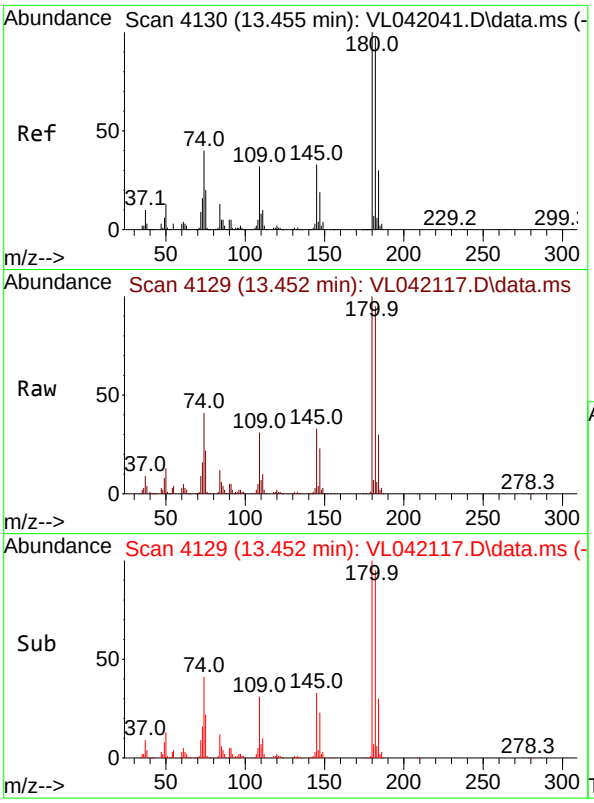


#80
Naphthalene,2-methyl-
Concen: 13.304 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Tgt Ion:142 Resp: 153727

Ion	Ratio	Lower	Upper
142	100		
141	79.2	65.8	98.6
115	36.3	29.5	44.3



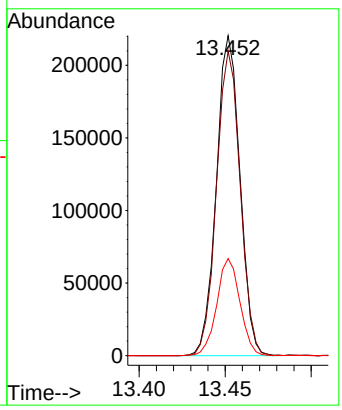


#81
1,2,4-Trichlorobenzene
Concen: 8.949 ppbv
RT: 13.452 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042117.D
Acq: 10 Mar 2025 10:52

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABS01

Tgt Ion:180 Resp: 210585

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.1	112.7
184	29.9	23.8	35.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042121.D
Acq On : 10 Mar 2025 12:59
Operator : SY/MD
Sample : Q1532-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1

Quant Time: Mar 11 01:23:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

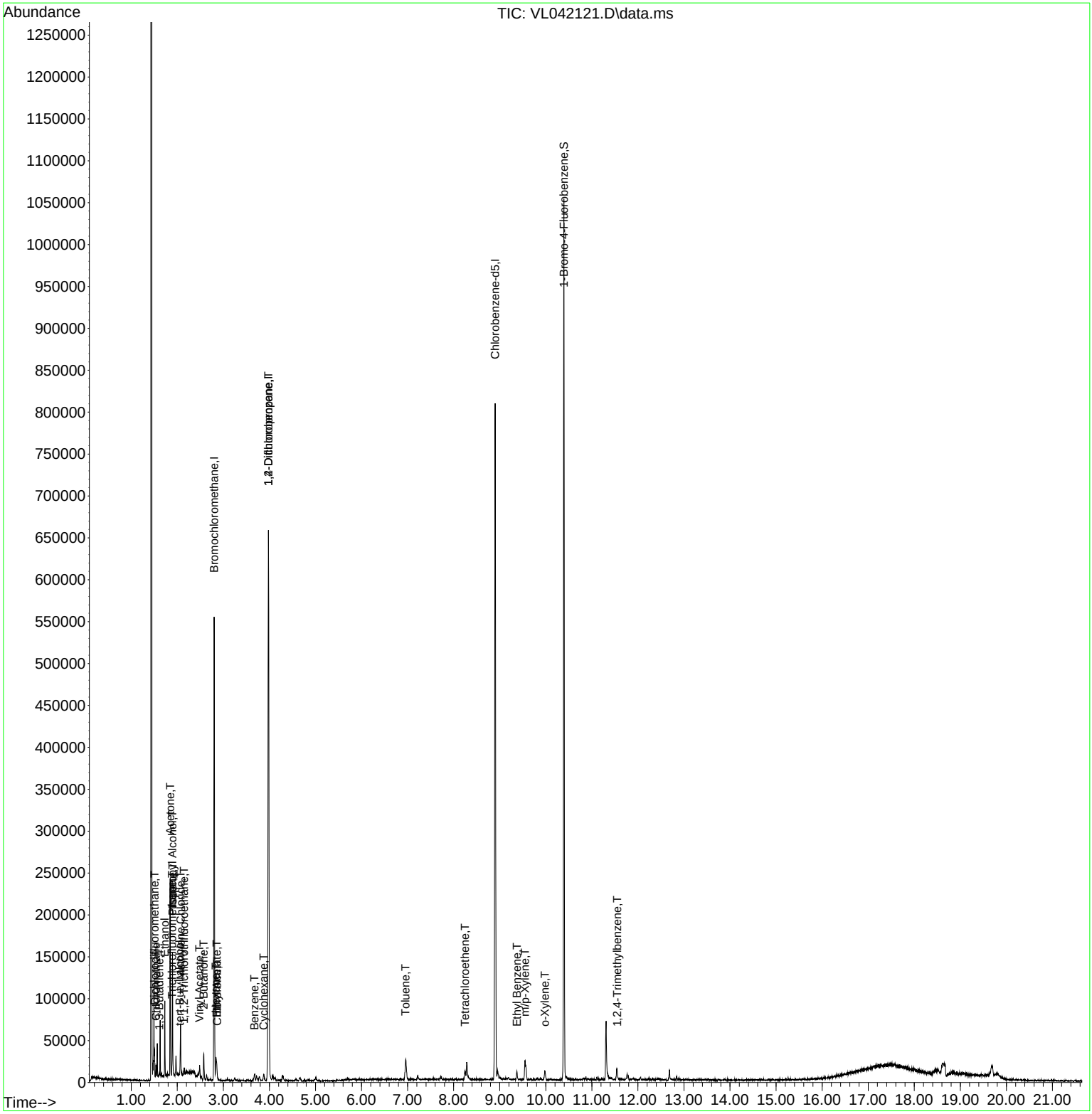
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	161577	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.978	114	375440	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.901	117	321830	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	253211	10.227	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	8597	0.512	ppbv		98
4) Chloromethane	1.538	50	3305	0.532	ppbv		94
9) Propene	1.897	41	6073	0.635	ppbv		97
11) Trichlorofluoromethane	1.887	101	4307	0.256	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.146	101	1234	0.092	ppbv		88
13) Ethanol	1.728	45	28335	46.657	ppbv		99
15) Acetone	1.845	43	102118	7.157	ppbv		100
16) 1,3-Butadiene	1.612	39	680	0.102	ppbv		97
17) tert-Butyl alcohol	2.055	59	1213	0.068	ppbv		99
19) Isopropyl Alcohol	1.894	45	61180	7.464	ppbv		98
20) Methylene Chloride	2.072	84	8920	1.653	ppbv		89
23) Vinyl Acetate	2.483	43	4241	0.423	ppbv	#	50
25) Ethyl Acetate	2.855	43	14868	0.260	ppbv	#	96
26) Hexane	2.839	57	4748	0.206	ppbv	#	64
29) Chloroform	2.865	83	1122	0.036	ppbv		93
30) Cyclohexane	3.874	84	601	0.032	ppbv	#	1
34) 2-Butanone	2.573	43	19052	0.651	ppbv		97
36) Benzene	3.674	78	2851	0.073	ppbv		98
39) 1,2-Dichloropropane	3.978	63	96577	6.474	ppbv	#	22
52) Tetrachloroethene	8.244	164	562	0.042	ppbv	#	17
53) Toluene	6.956	91	8851	0.202	ppbv	#	20
58) Ethyl Benzene	9.373	91	4916	0.083	ppbv		93
59) m/p-Xylene	9.548	91	6927	0.147	ppbv	#	100
60) o-Xylene	9.979	91	3937	0.083	ppbv		96
74) 1,2,4-Trimethylbenzene	11.548	105	2660	0.047	ppbv	#	63

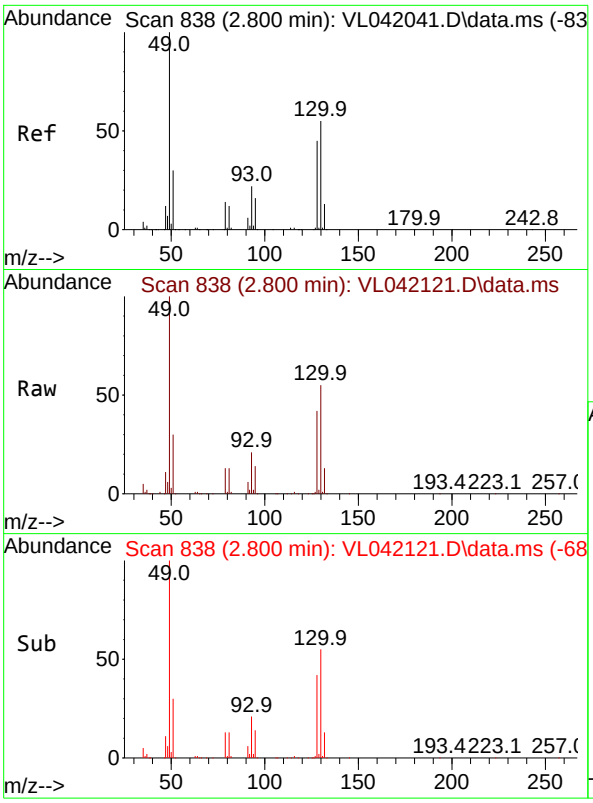
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042121.D
Acq On : 10 Mar 2025 12:59
Operator : SY/MD
Sample : Q1532-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1

Quant Time: Mar 11 01:23:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



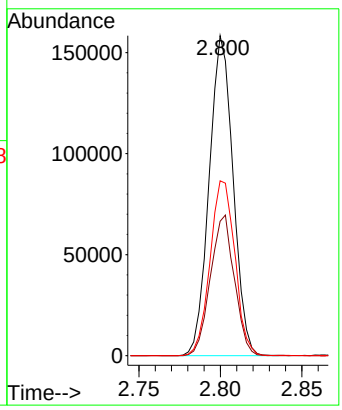


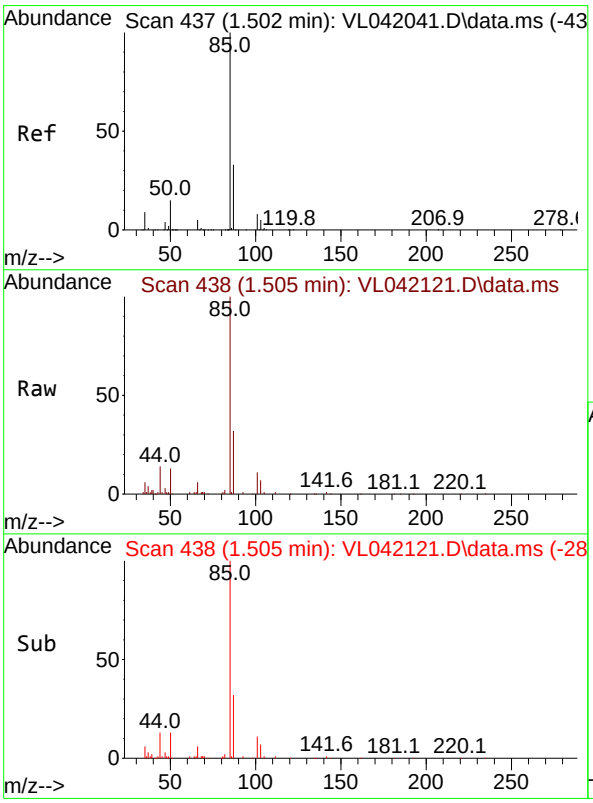
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 49 Resp: 161577

Ion	Ratio	Lower	Upper
49	100		
128	43.9	21.6	64.8
130	56.8	27.8	83.4

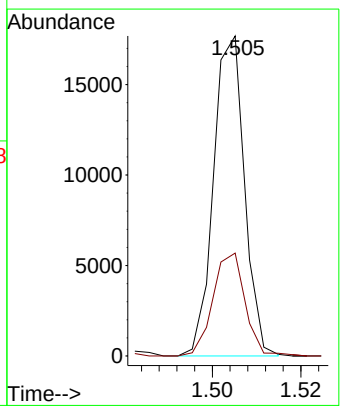


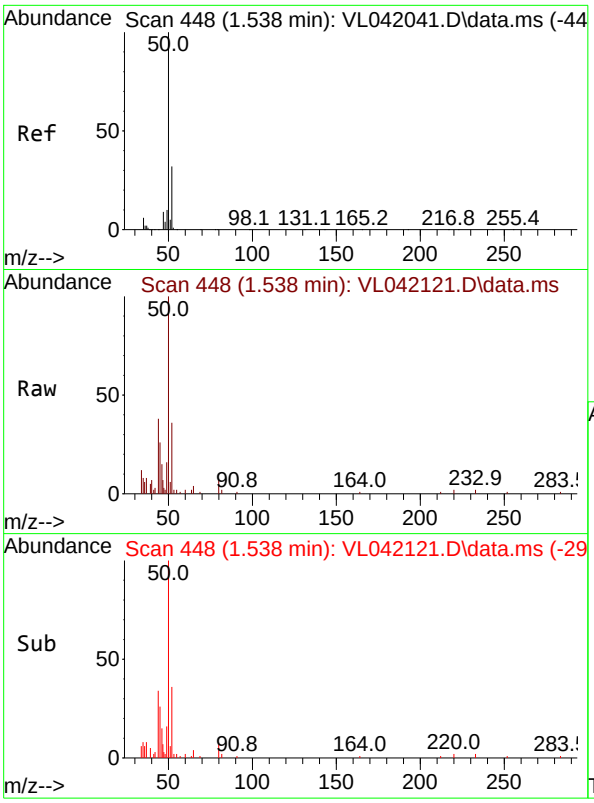


#2
Dichlorodifluoromethane
Concen: 0.512 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 85 Resp: 8597

Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.4	39.6



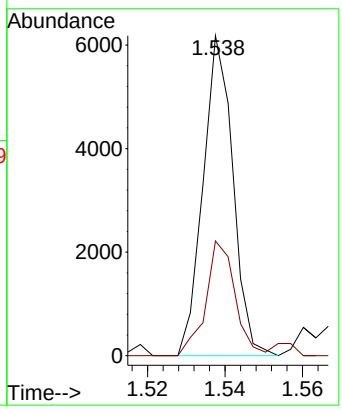


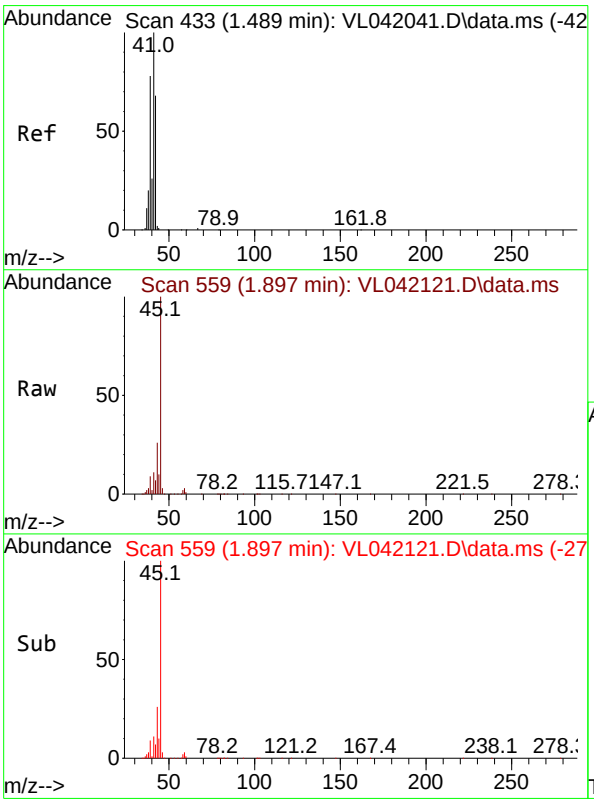
#4
Chloromethane
Concen: 0.532 ppbv
RT: 1.538 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 50 Resp: 3305

Ion	Ratio	Lower	Upper
50	100		
52	34.8	25.4	38.0

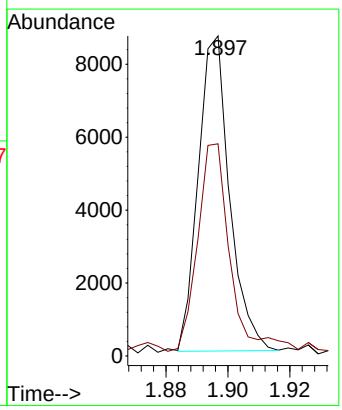


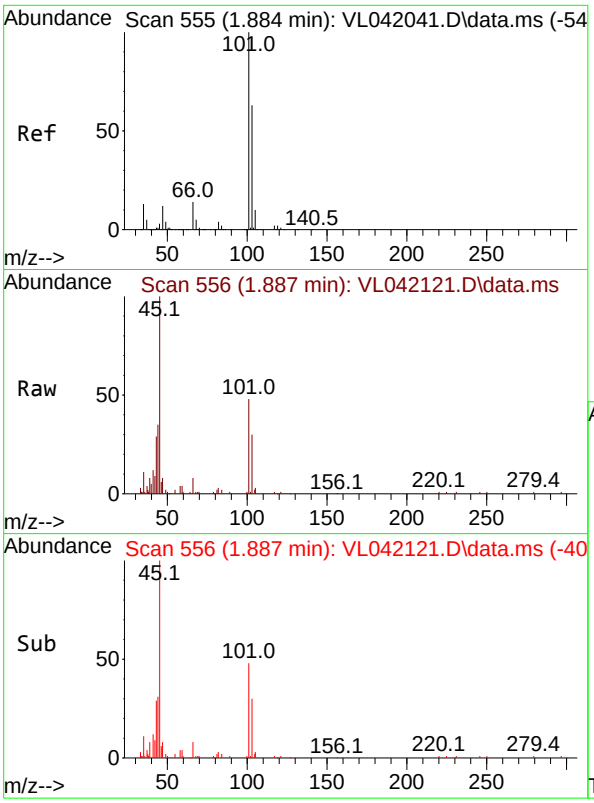


#9
Propene
Concen: 0.635 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.408 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 41 Resp: 6073

Ion	Ratio	Lower	Upper
41	100		
42	67.3	55.8	83.6



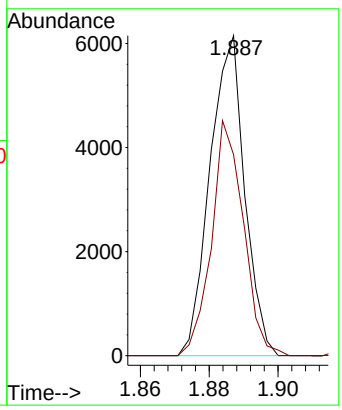


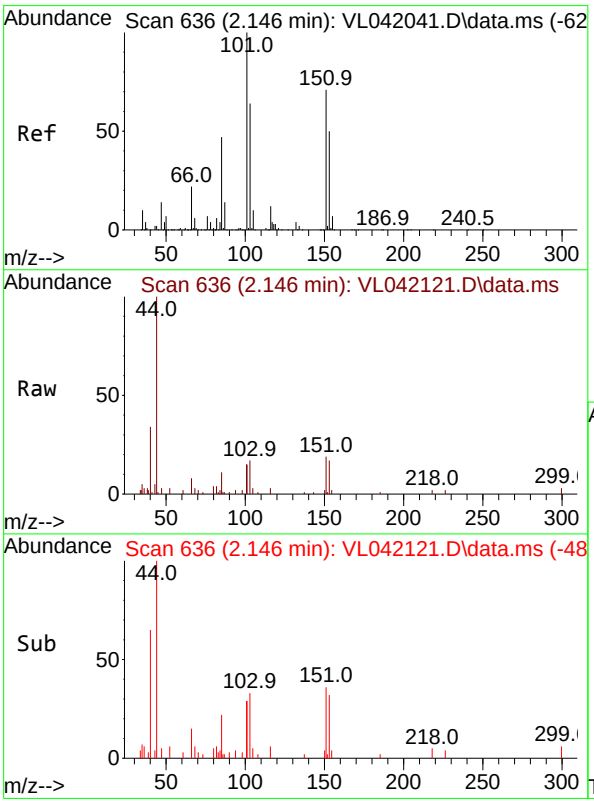
#11
Trichlorofluoromethane
Concen: 0.256 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion:101 Resp: 4307

Ion	Ratio	Lower	Upper
101	100		
103	62.8	50.6	75.8

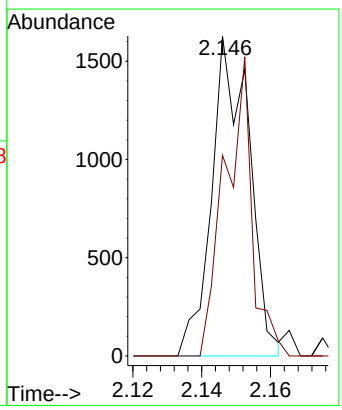


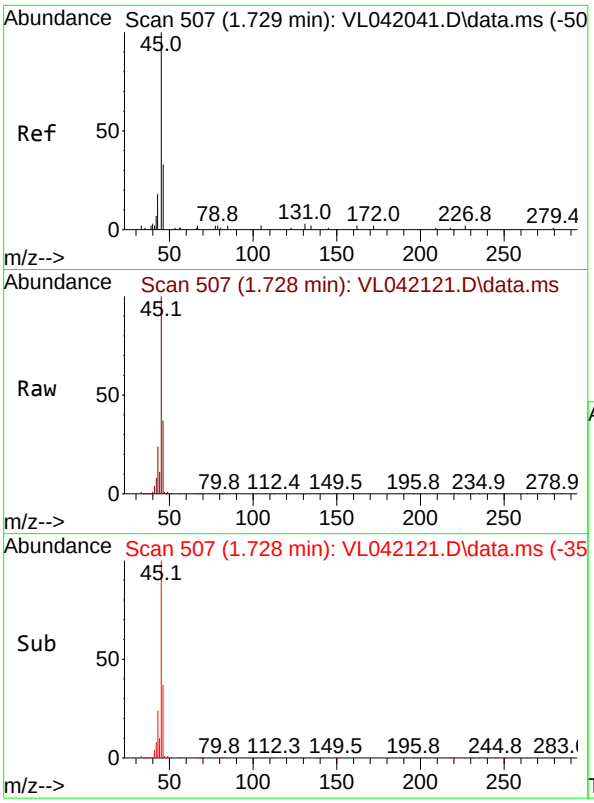


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.092 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion:101 Resp: 1234

Ion	Ratio	Lower	Upper
101	100		
151	67.8	62.6	94.0



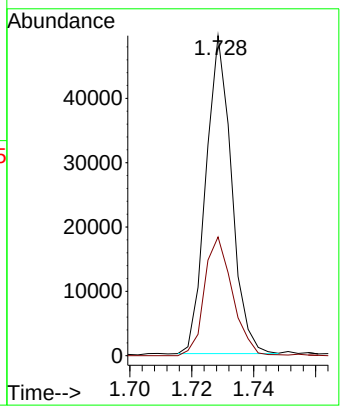


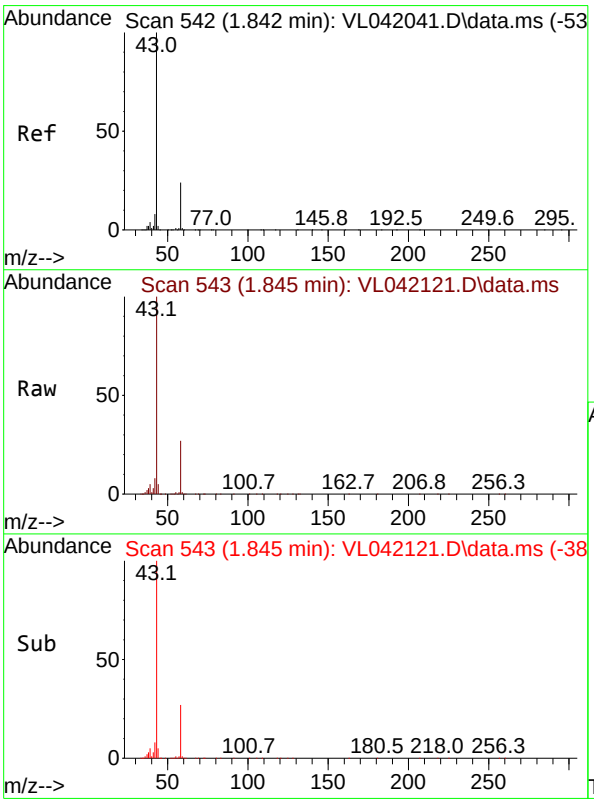
#13
Ethanol
Concen: 46.657 ppbv
RT: 1.728 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 45 Resp: 28335

Ion	Ratio	Lower	Upper
45	100		
46	41.8	17.1	68.3

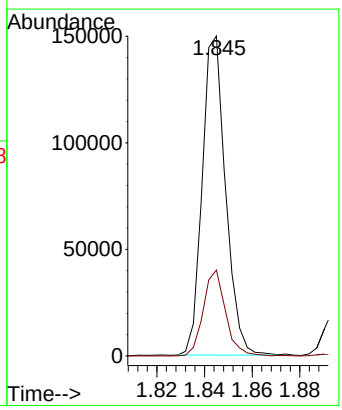


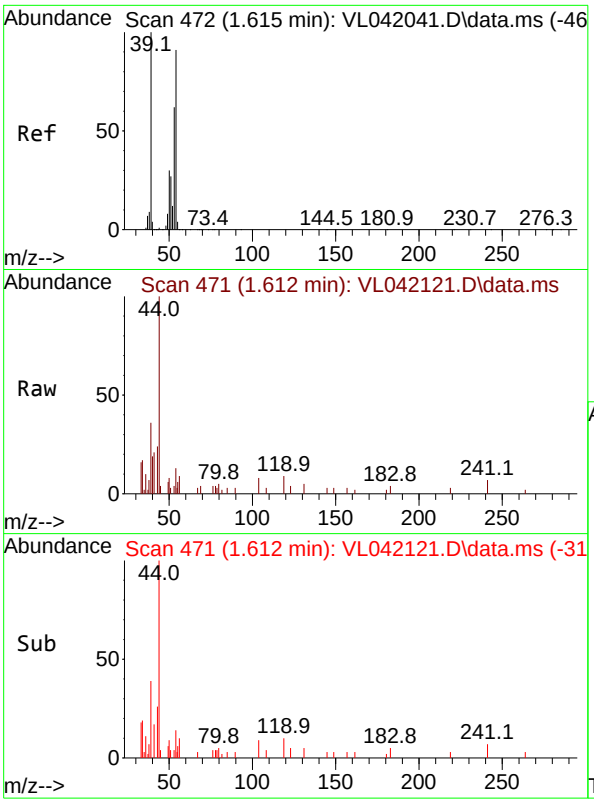


#15
Acetone
Concen: 7.157 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 43 Resp: 102118

Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.7	31.1



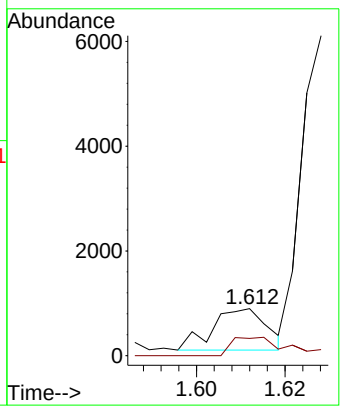


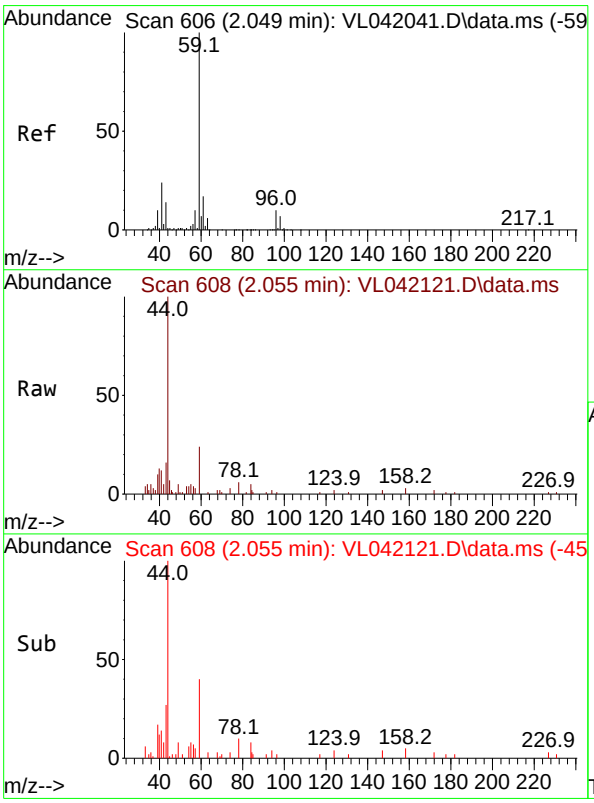
#16
1,3-Butadiene
Concen: 0.102 ppbv
RT: 1.612 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 39 Resp: 680

Ion	Ratio	Lower	Upper
39	100		
54	76.9	59.6	89.4

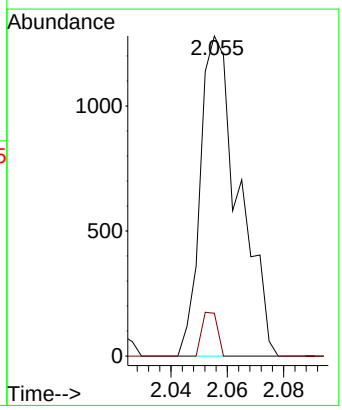


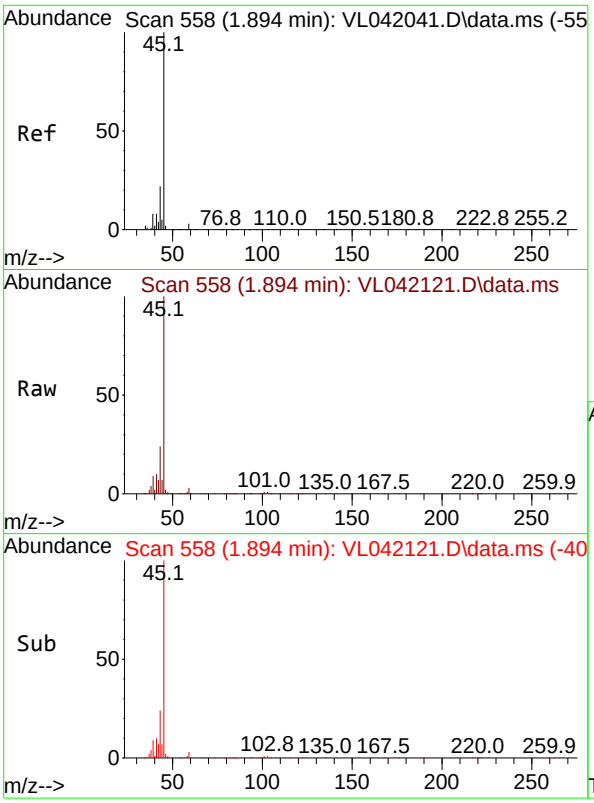


#17
tert-Butyl alcohol
Concen: 0.068 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.006 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 59 Resp: 1213

Ion	Ratio	Lower	Upper
59	100		
57	11.9	9.3	13.9



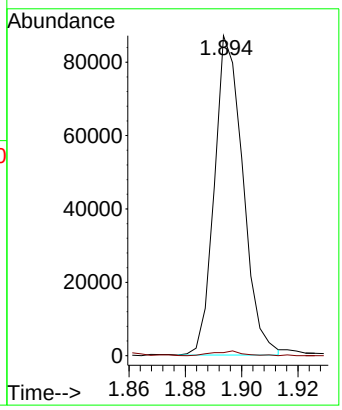


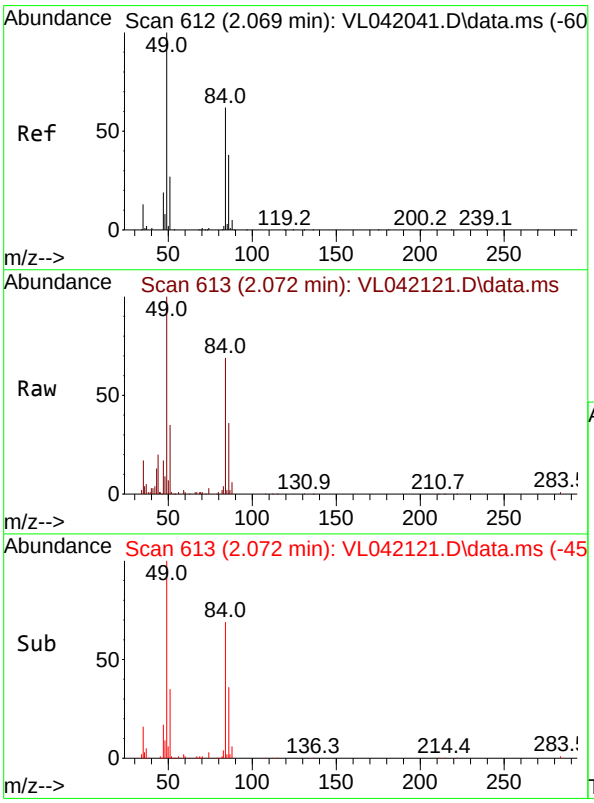
#19
Isopropyl Alcohol
Concen: 7.464 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 45 Resp: 61180

Ion	Ratio	Lower	Upper
45	100		
58	43.0	35.3	52.9

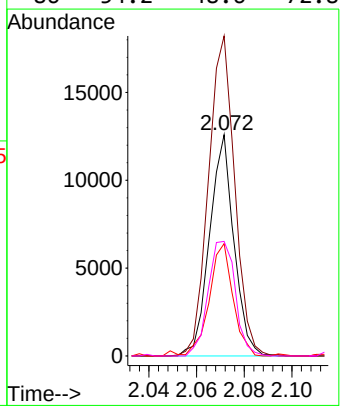


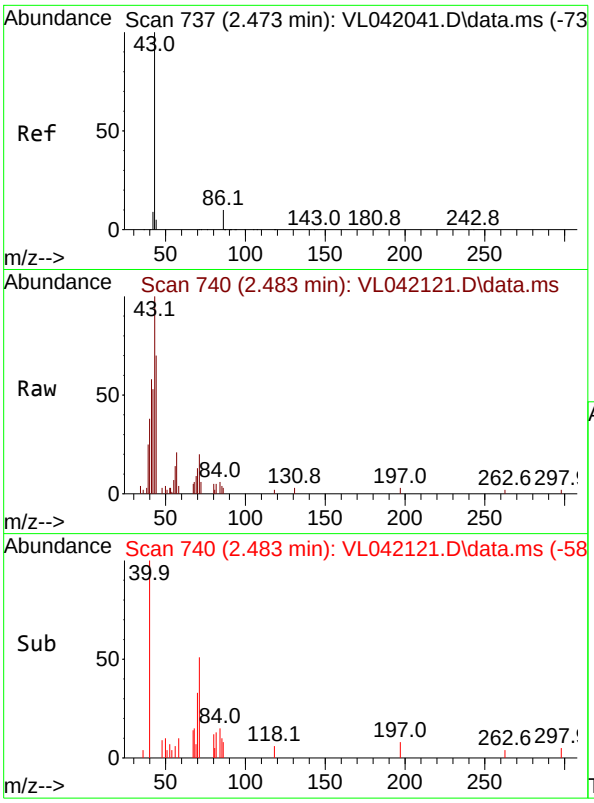


#20
Methylene Chloride
Concen: 1.653 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 84 Resp: 8920

Ion	Ratio	Lower	Upper
84	100		
49	144.0	130.0	195.0
51	50.1	37.4	56.0
86	54.2	48.6	72.8



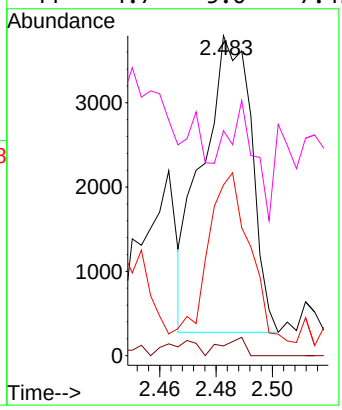


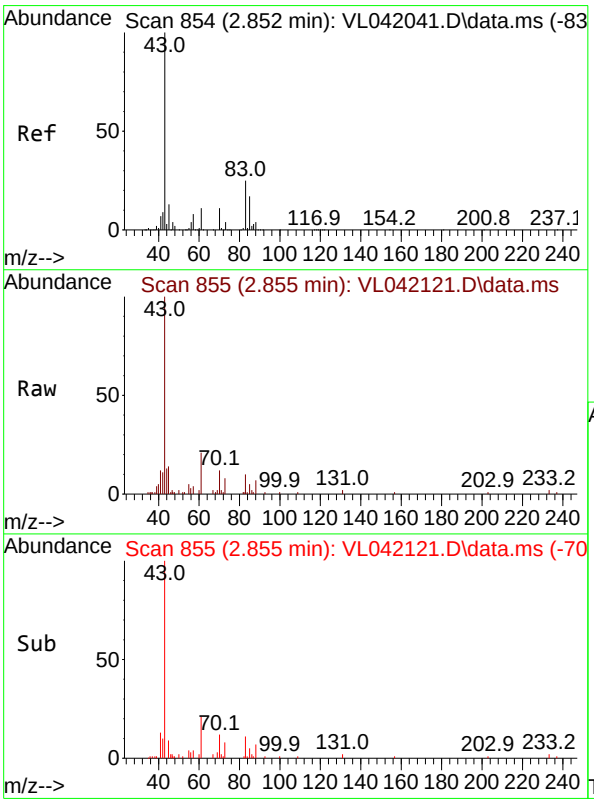
#23
Vinyl Acetate
Concen: 0.423 ppbv
RT: 2.483 min Scan# 7
Delta R.T. 0.009 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 43 Resp: 4241

Ion	Ratio	Lower	Upper
43	100		
86	3.3	7.0	10.4#
42	50.4	7.6	11.4#
44	4.7	5.0	7.4#

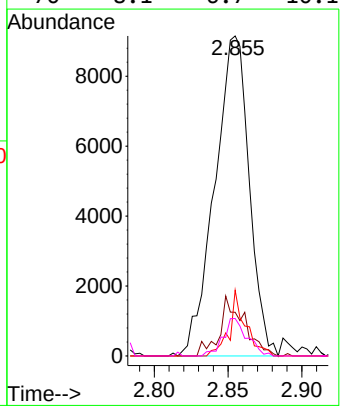


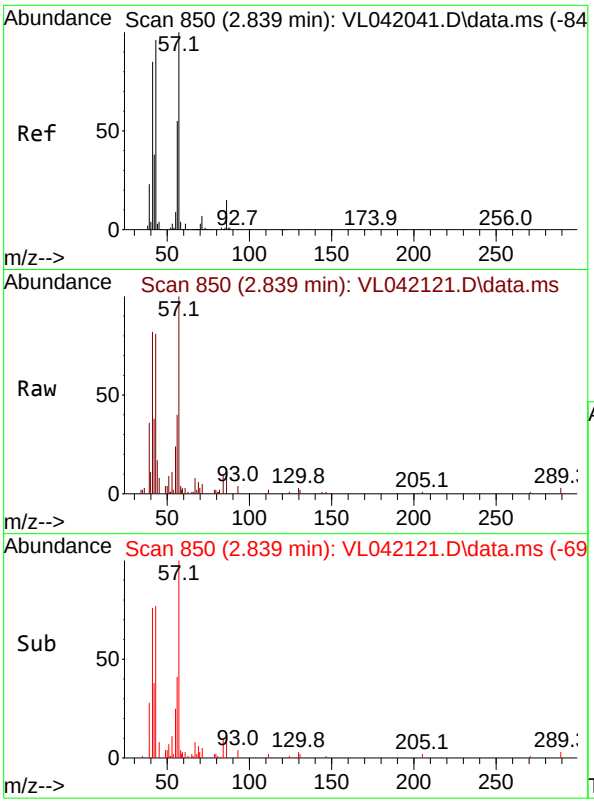


#25
Ethyl Acetate
Concen: 0.260 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 43 Resp: 14868

Ion	Ratio	Lower	Upper
43	100		
45	13.4	8.1	12.1#
61	9.7	7.2	10.8
70	8.1	6.7	10.1



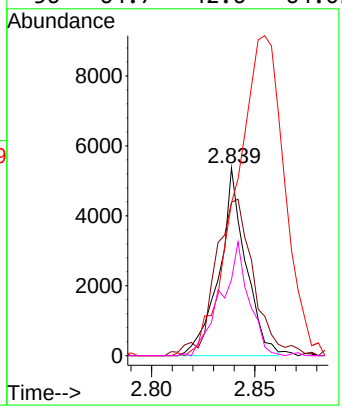


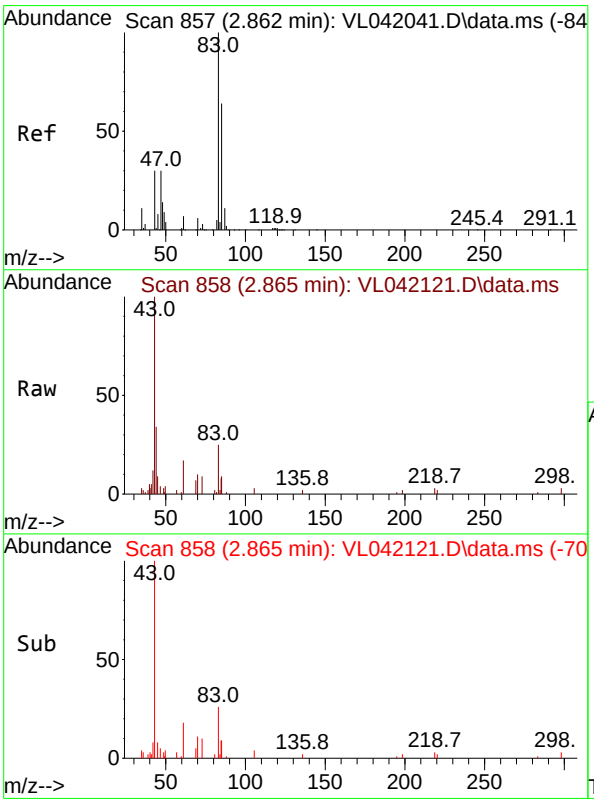
#26
Hexane
Concen: 0.206 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 57 Resp: 4748

Ion	Ratio	Lower	Upper
57	100		
41	121.3	70.6	106.0#
43	320.5	199.4	299.0#
56	64.7	42.6	64.0#

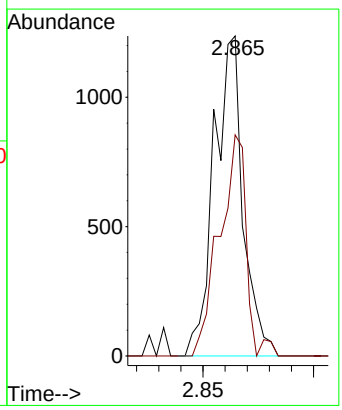


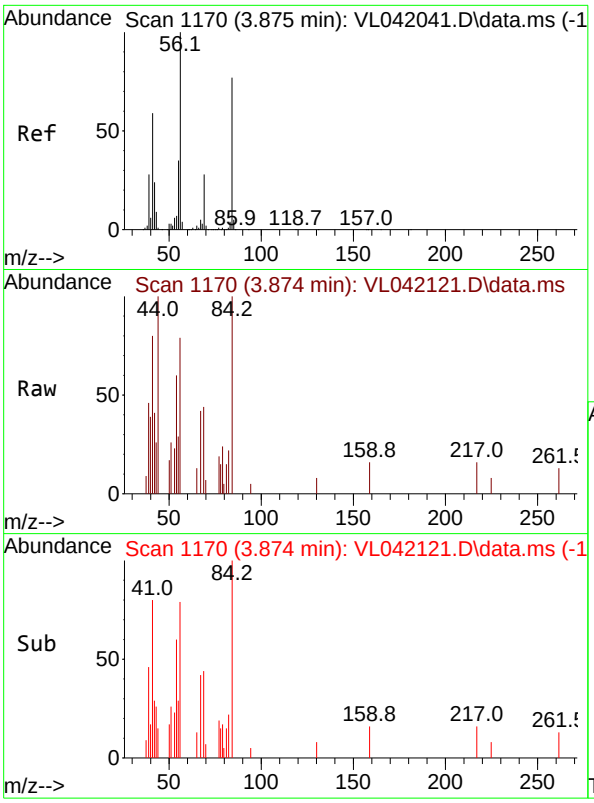


#29
Chloroform
Concen: 0.036 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 83 Resp: 1122

Ion	Ratio	Lower	Upper
83	100		
85	69.1	51.2	76.8



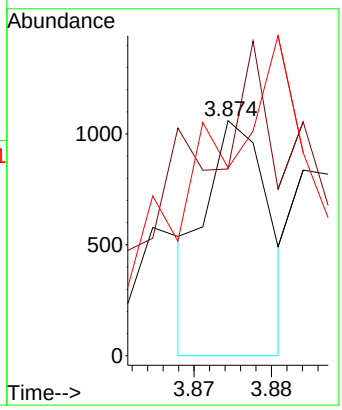


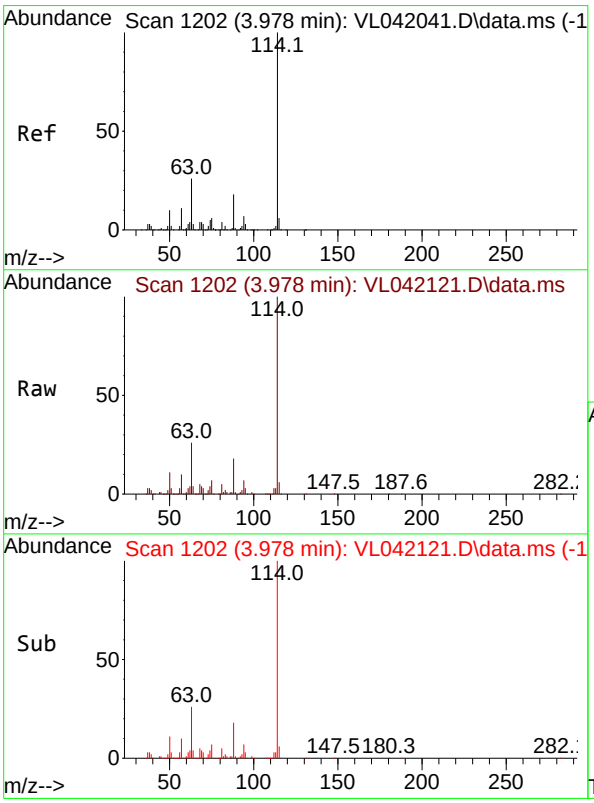
#30
Cyclohexane
Concen: 0.032 ppbv
RT: 3.874 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 84 Resp: 601

Ion	Ratio	Lower	Upper
84	100		
56	0.0	101.5	152.3#
41	0.0	62.6	93.8#

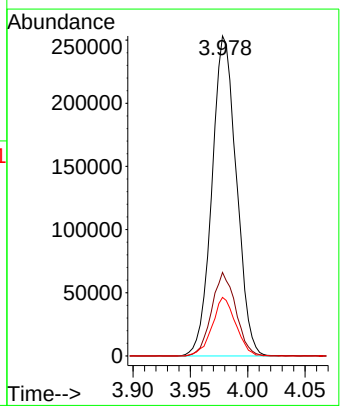


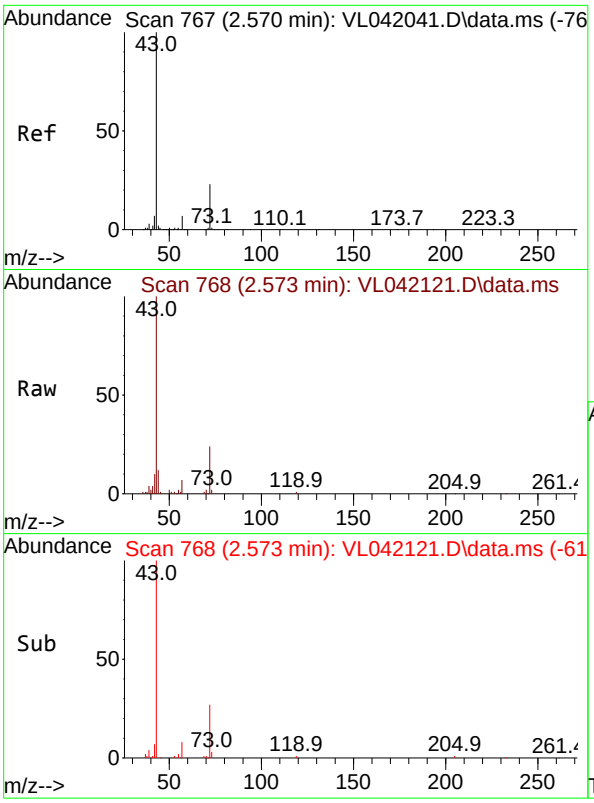


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion:114 Resp: 375440

Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.1	30.1
88	17.7	14.3	21.5



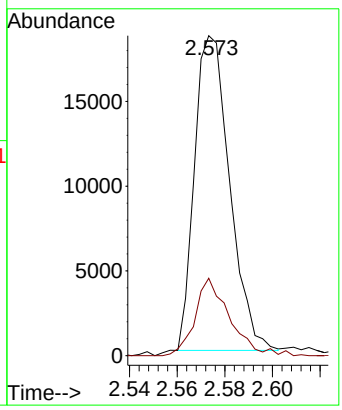


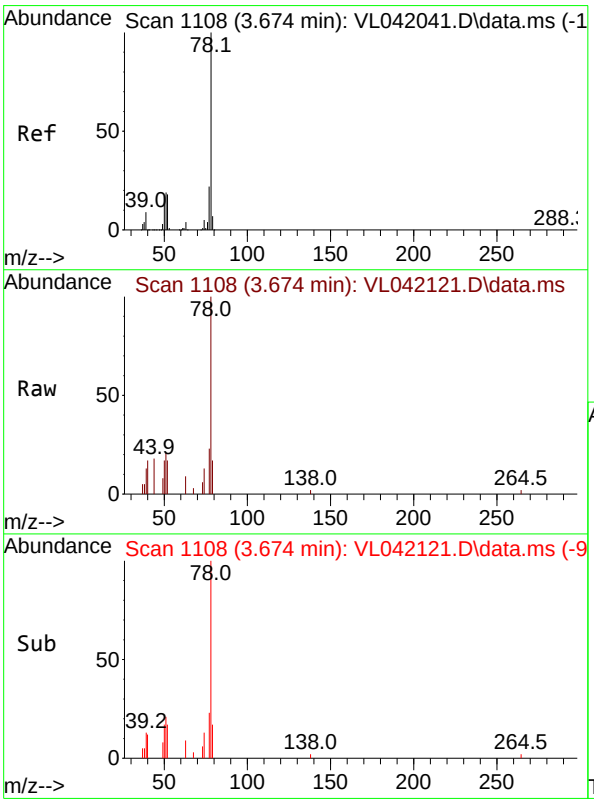
#34
2-Butanone
Concen: 0.651 ppbv
RT: 2.573 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 43 Resp: 19052

Ion	Ratio	Lower	Upper
43	100		
72	24.4	18.5	27.7

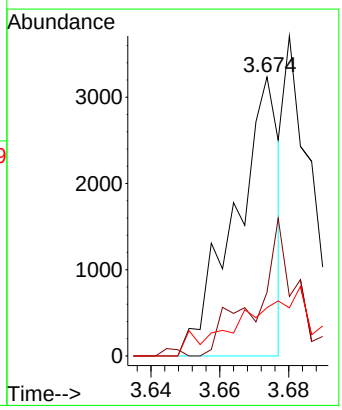


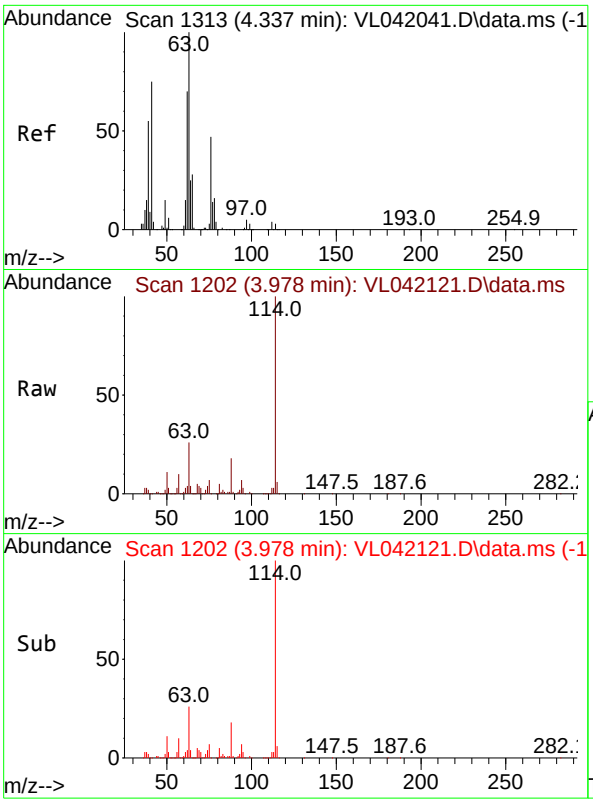


#36
Benzene
Concen: 0.073 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 78 Resp: 2851

Ion	Ratio	Lower	Upper
78	100		
77	20.6	17.7	26.5
50	17.3	13.9	20.9



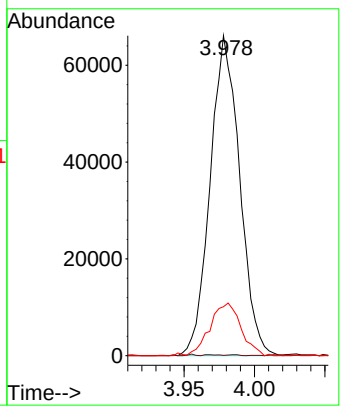


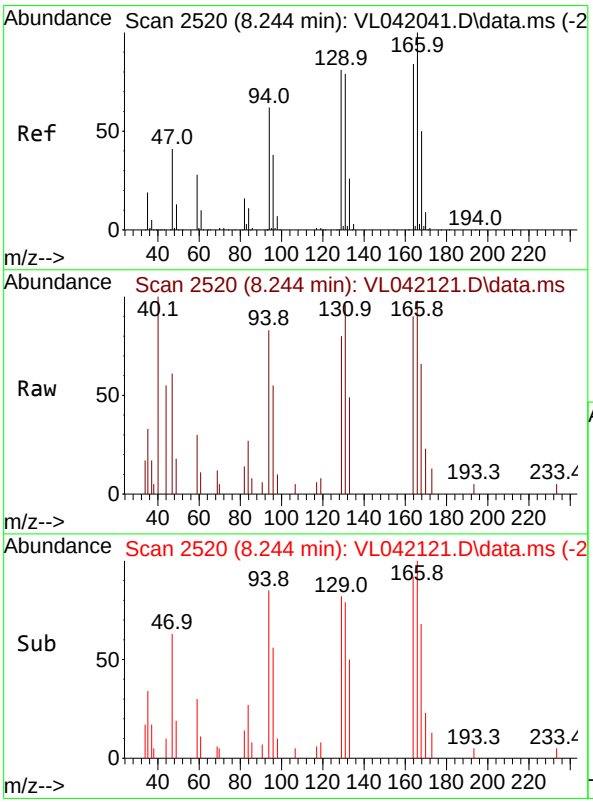
#39
1,2-Dichloropropane
Concen: 6.474 ppbv
RT: 3.978 min Scan# 1
Delta R.T. -0.359 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 63 Resp: 96577

Ion	Ratio	Lower	Upper
63	100		
41	0.1	60.1	90.1#
62	15.3	55.8	83.8#

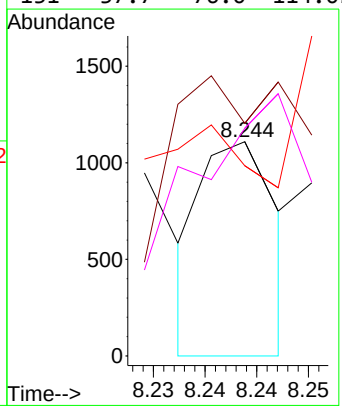


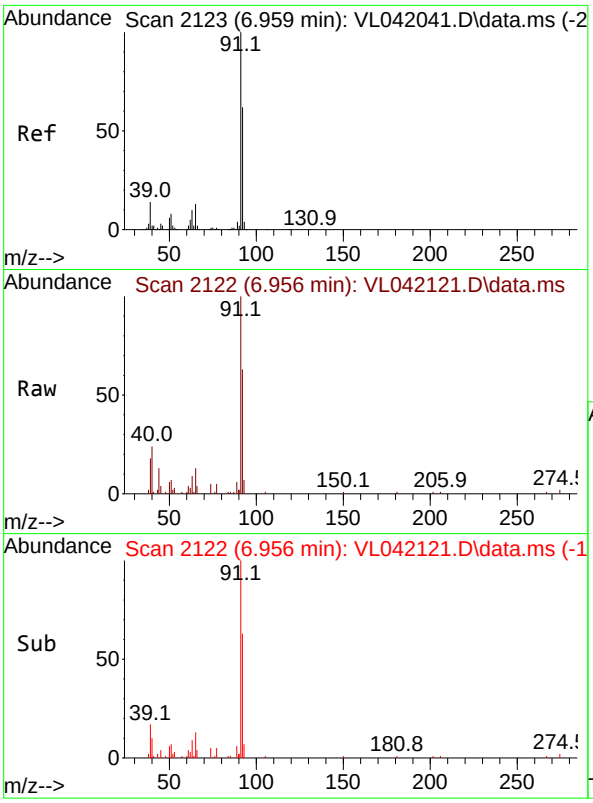


#52
Tetrachloroethene
Concen: 0.042 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion:164 Resp: 562

Ion	Ratio	Lower	Upper
164	100		
166	0.0	95.7	143.5#
129	21.7	77.1	115.7#
131	37.7	76.0	114.0#



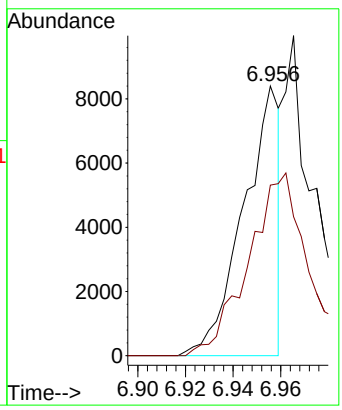


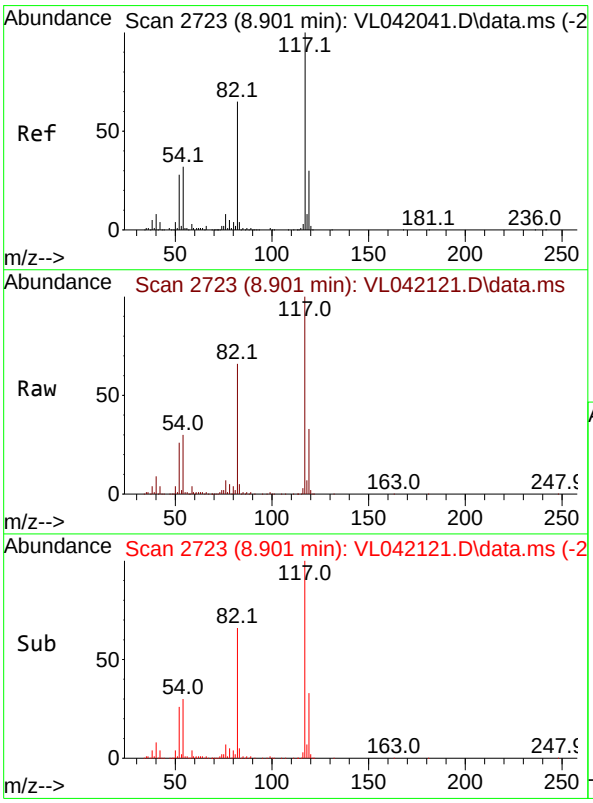
#53
Toluene
Concen: 0.202 ppbv
RT: 6.956 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 91 Resp: 8851

Ion	Ratio	Lower	Upper
91	100		
92	0.0	49.0	73.6#

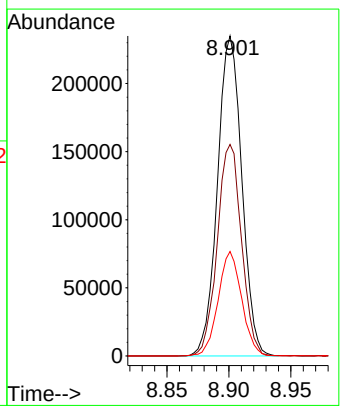


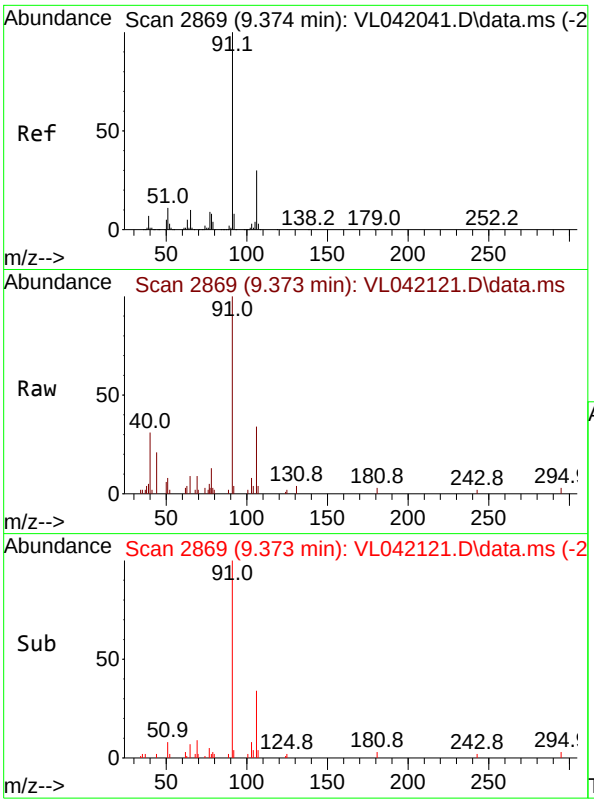


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion:117 Resp: 321830

Ion	Ratio	Lower	Upper
117	100		
82	65.8	55.0	82.6
119	31.7	25.9	38.9



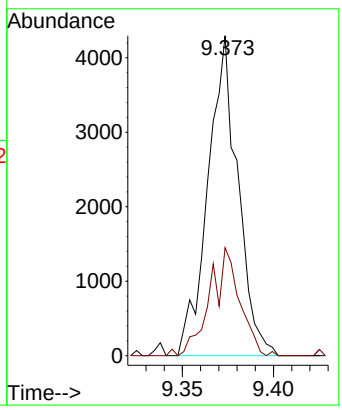


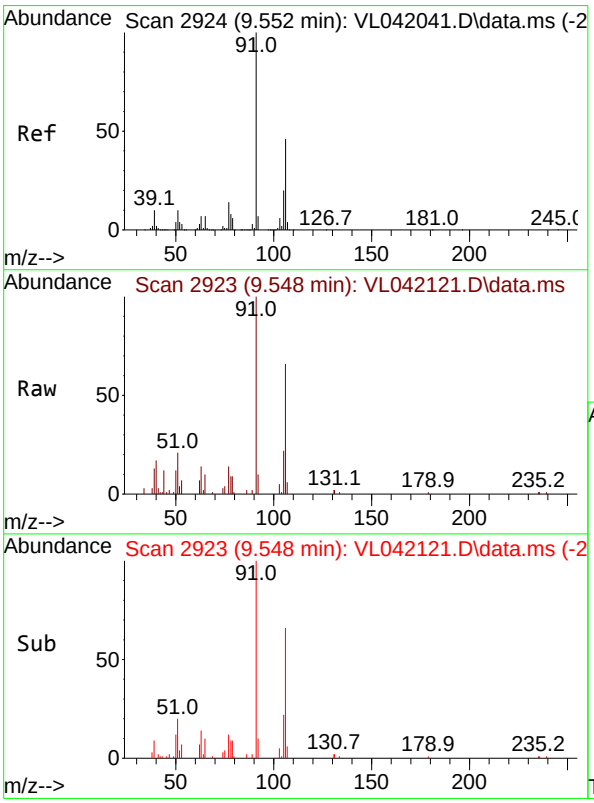
#58
Ethyl Benzene
Concen: 0.083 ppbv
RT: 9.373 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 91 Resp: 4916

Ion	Ratio	Lower	Upper
91	100		
106	33.7	24.2	36.2

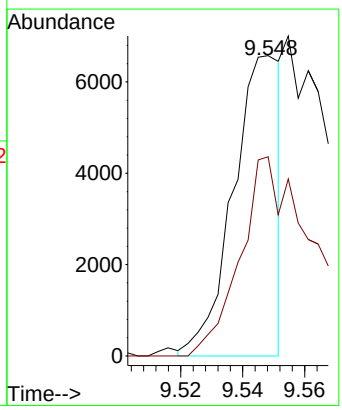


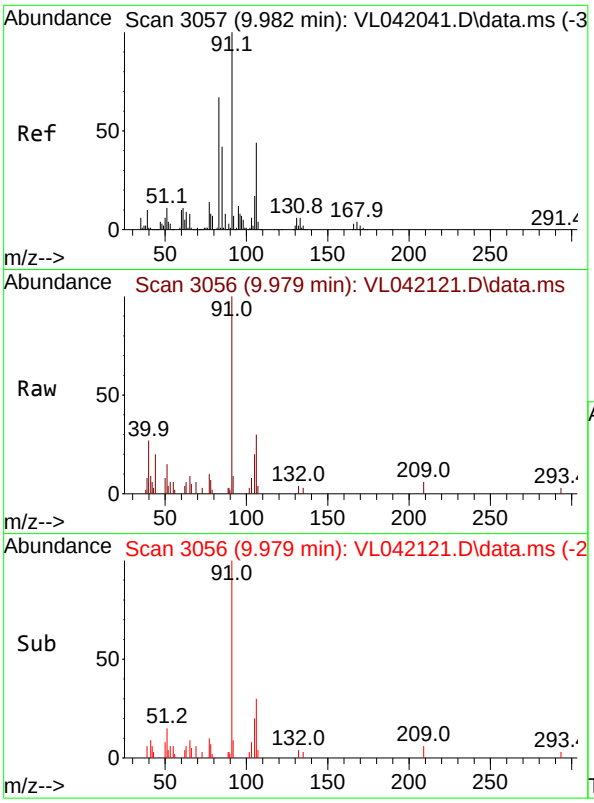


#59
m/p-Xylene
Concen: 0.147 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 91 Resp: 6927

Ion	Ratio	Lower	Upper
91	100		
106	116.9	0.0	0.0#



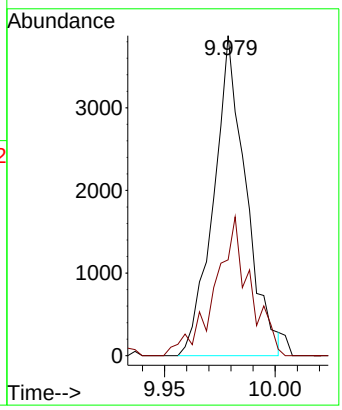


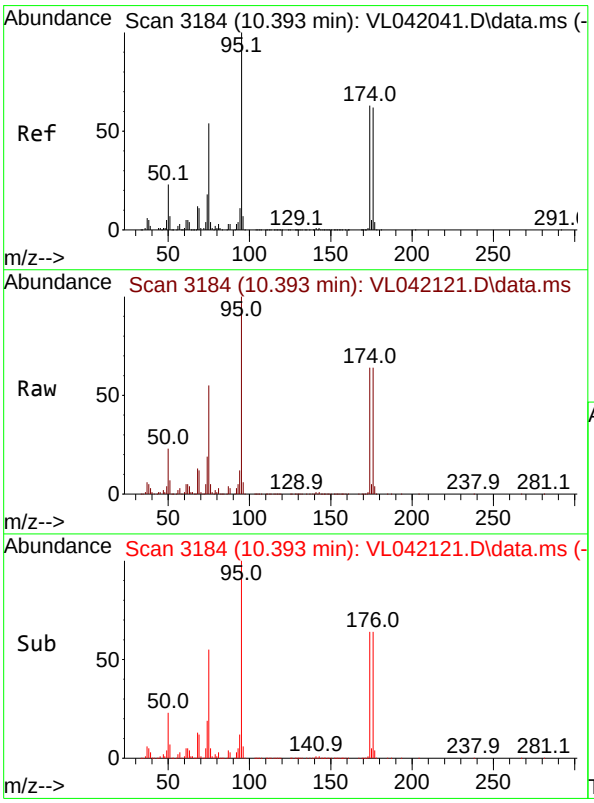
#60
o-Xylene
Concen: 0.083 ppbv
RT: 9.979 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 91 Resp: 3937

Ion	Ratio	Lower	Upper
91	100		
106	47.0	22.3	66.8

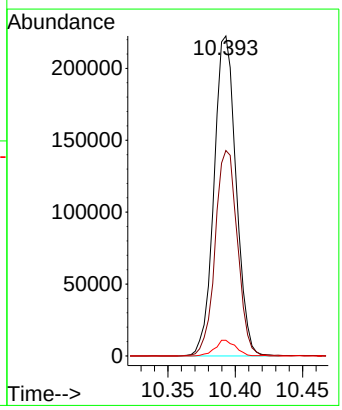


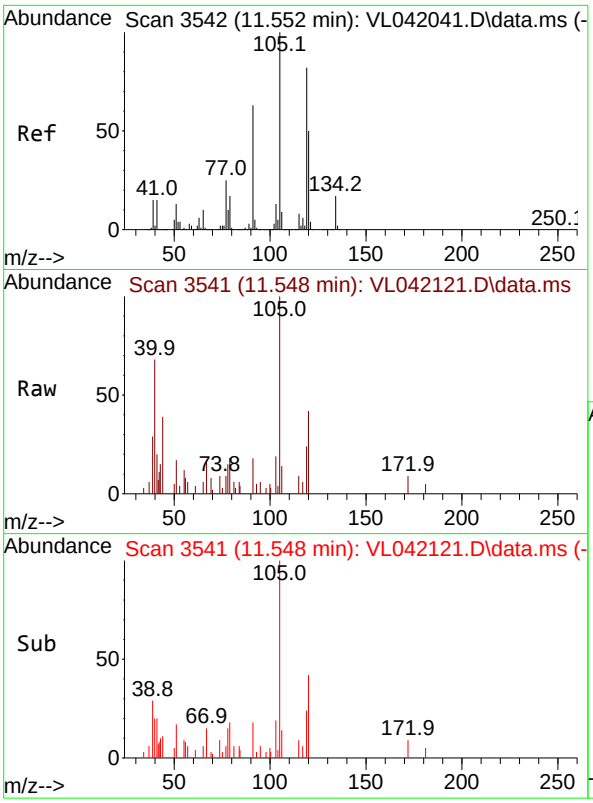


#68
1-Bromo-4-Fluorobenzene
Concen: 10.227 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 95 Resp: 253211

Ion	Ratio	Lower	Upper
95	100		
174	65.1	51.8	77.6
175	4.7	3.9	5.9



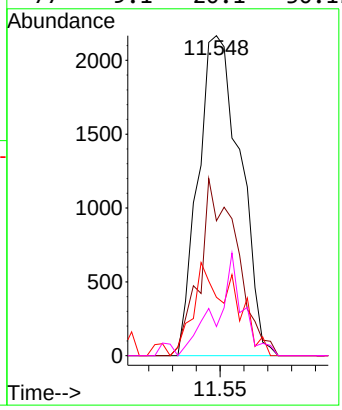


#74
1,2,4-Trimethylbenzene
Concen: 0.047 ppbv
RT: 11.548 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion:105 Resp: 2660

Ion	Ratio	Lower	Upper
105	100		
120	42.1	40.2	60.2
91	18.3	51.4	77.2#
77	9.1	20.1	30.1#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042122.D
Acq On : 10 Mar 2025 13:32
Operator : SY/MD
Sample : Q1532-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Quant Time: Mar 11 01:24:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

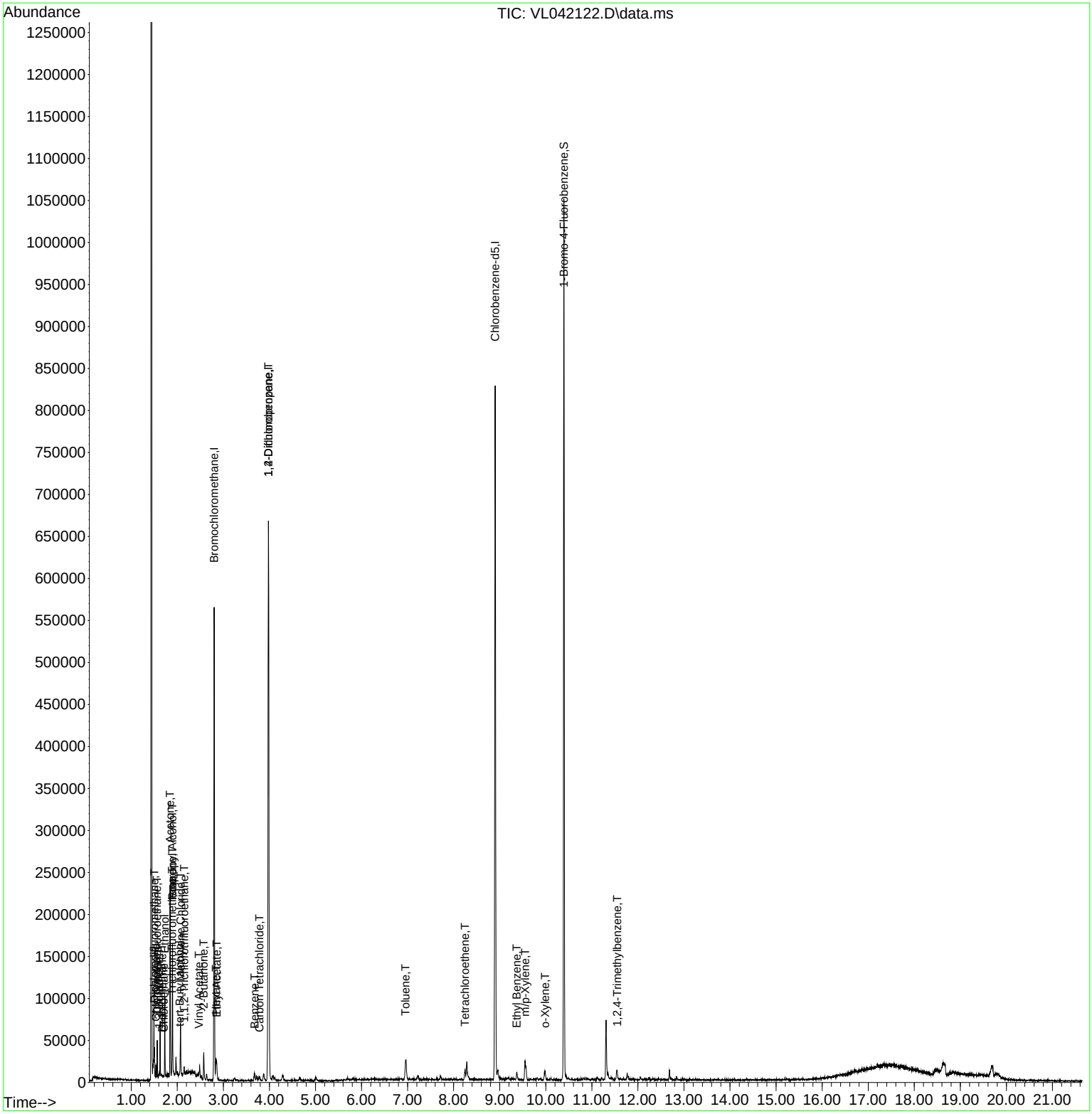
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	163759	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.978	114	380274	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.901	117	322839	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	251994	10.146	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8547	0.502	ppbv		95
4) Chloromethane	1.538	50	3449	0.548	ppbv		90
6) Bromomethane	1.674	94	94	0.033	ppbv		88
7) Chloroethane	1.706	64	97	0.040	ppbv	#	39
8) Dichlorotetrafluoroethane	1.560	85	560	0.040	ppbv	#	16
9) Propene	1.894	41	6606	0.681	ppbv		85
11) Trichlorofluoromethane	1.887	101	4555	0.267	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.149	101	1360	0.100	ppbv	#	73
13) Ethanol	1.729	45	30378	49.354	ppbv		89
15) Acetone	1.842	43	101724	7.034	ppbv		99
16) 1,3-Butadiene	1.606	39	605	0.090	ppbv	#	25
17) tert-Butyl alcohol	2.055	59	823	0.045	ppbv	#	70
19) Isopropyl Alcohol	1.894	45	62582	7.534	ppbv	#	35
20) Methylene Chloride	2.072	84	8455	1.546	ppbv		88
23) Vinyl Acetate	2.473	43	768	0.076	ppbv	#	44
25) Ethyl Acetate	2.855	43	13851	0.239	ppbv	#	93
26) Hexane	2.842	57	4982	0.213	ppbv	#	78
34) 2-Butanone	2.573	43	20082	0.678	ppbv		94
35) Carbon Tetrachloride	3.784	117	1254	0.048	ppbv	#	43
36) Benzene	3.677	78	4996	0.125	ppbv		97
39) 1,2-Dichloropropane	3.978	63	95966	6.351	ppbv	#	24
52) Tetrachloroethene	8.244	164	1104	0.081	ppbv	#	70
53) Toluene	6.956	91	8789	0.198	ppbv	#	26
58) Ethyl Benzene	9.367	91	4720	0.079	ppbv	#	76
59) m/p-Xylene	9.552	91	10254	0.217	ppbv	#	100
60) o-Xylene	9.985	91	4159	0.087	ppbv		94
74) 1,2,4-Trimethylbenzene	11.549	105	2738	0.048	ppbv	#	59

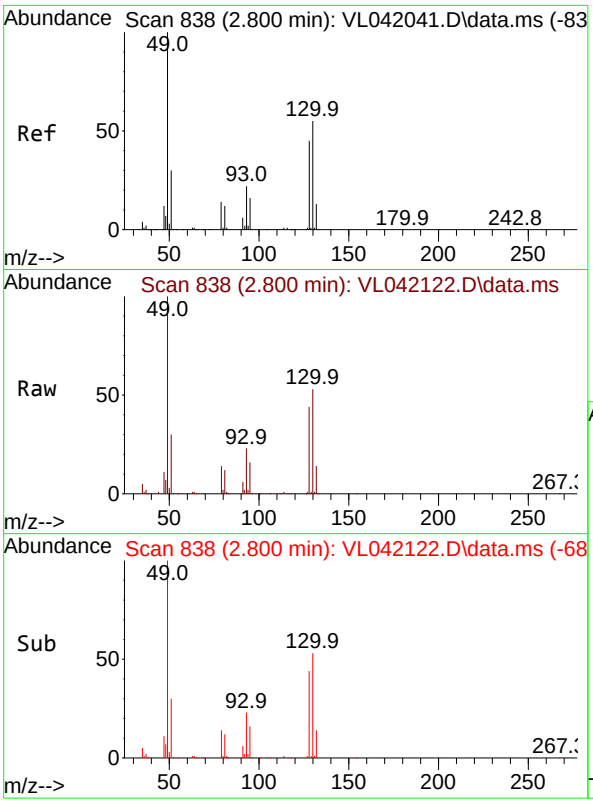
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042122.D
Acq On : 10 Mar 2025 13:32
Operator : SY/MD
Sample : Q1532-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Quant Time: Mar 11 01:24:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



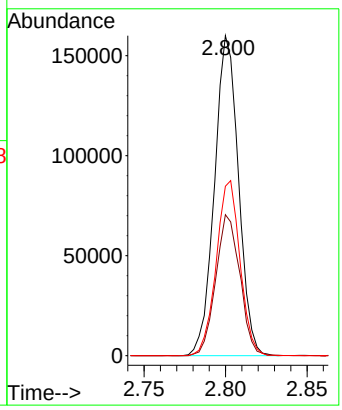


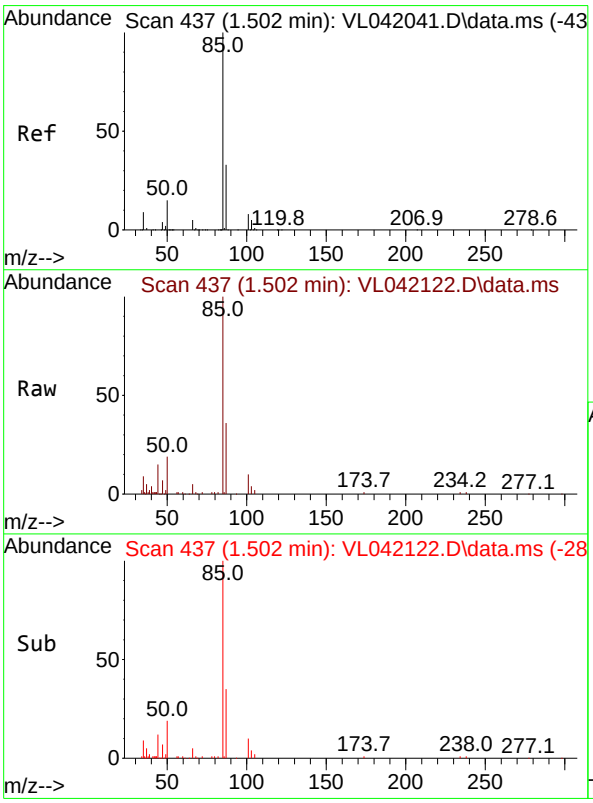
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 49 Resp: 163759

Ion	Ratio	Lower	Upper
49	100		
128	44.2	21.6	64.8
130	54.2	27.8	83.4

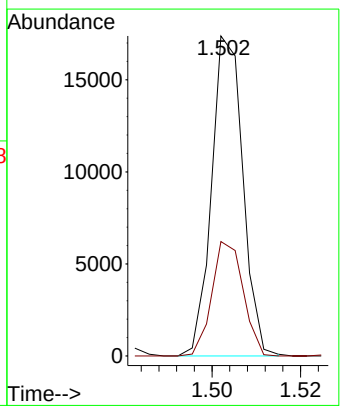


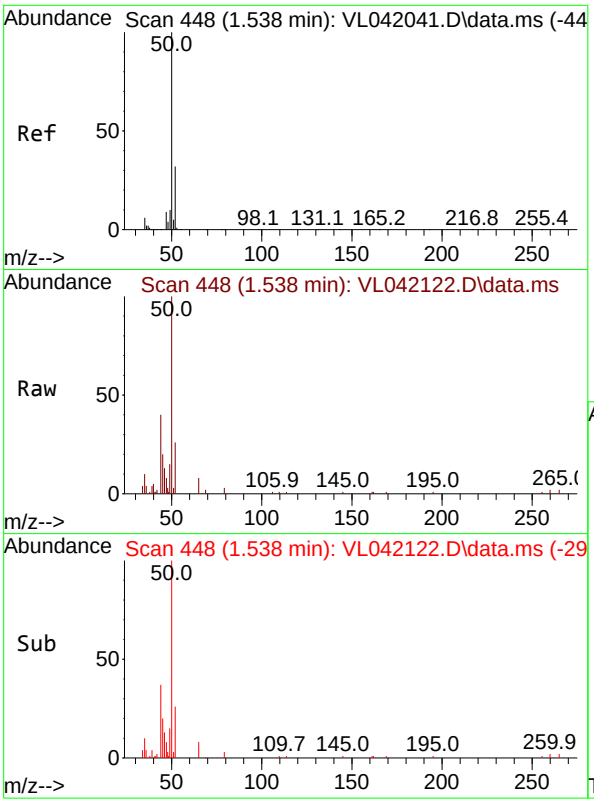


#2
Dichlorodifluoromethane
Concen: 0.502 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 85 Resp: 8547

Ion	Ratio	Lower	Upper
85	100		
87	35.7	26.4	39.6



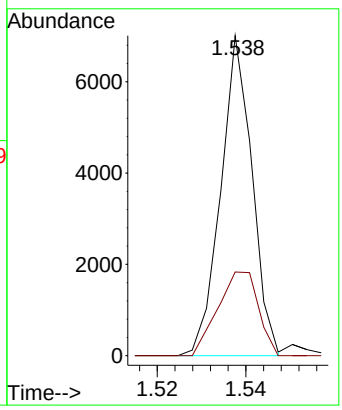


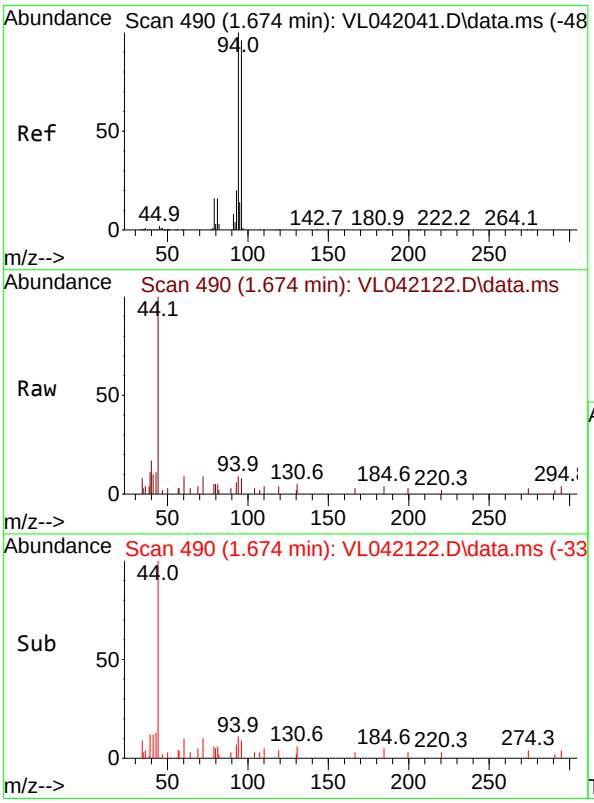
#4
Chloromethane
Concen: 0.548 ppbv
RT: 1.538 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 50 Resp: 3449

Ion	Ratio	Lower	Upper
50	100		
52	26.1	25.4	38.0

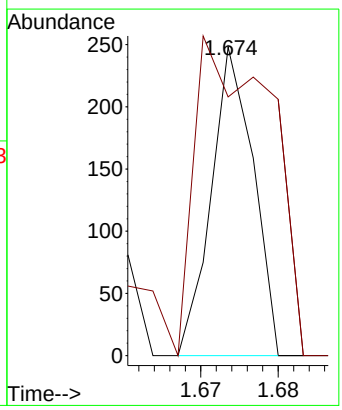


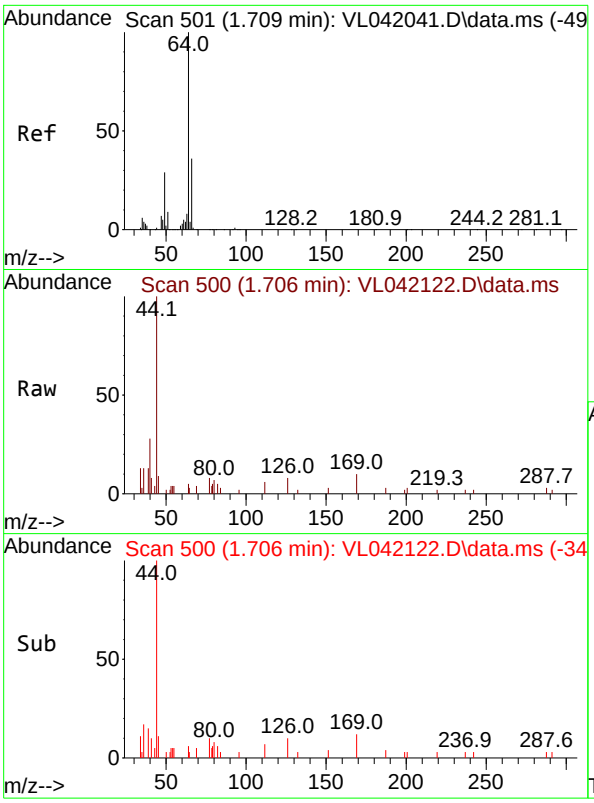


#6
Bromomethane
Concen: 0.033 ppbv
RT: 1.674 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 94 Resp: 94

Ion	Ratio	Lower	Upper
94	100		
96	83.9	76.5	114.7



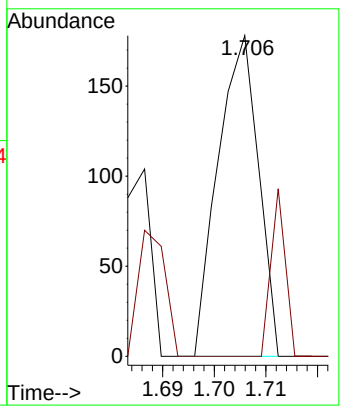


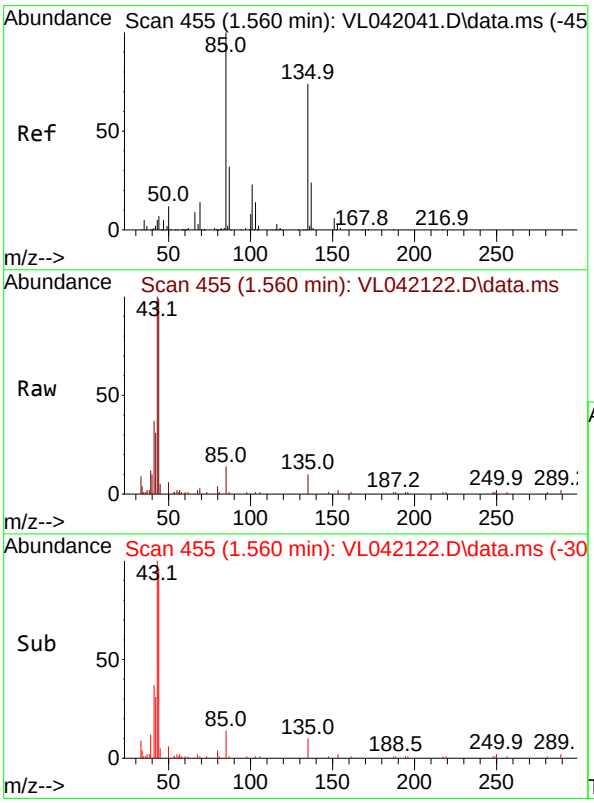
#7
Chloroethane
Concen: 0.040 ppbv
RT: 1.706 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 64 Resp: 97

Ion	Ratio	Lower	Upper
64	100		
66	0.0	28.4	42.6#

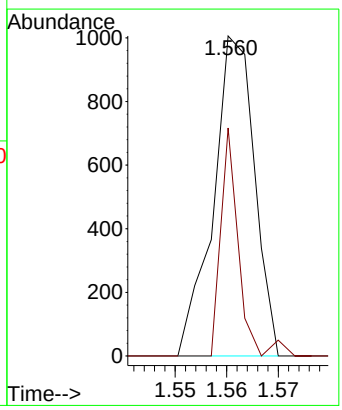


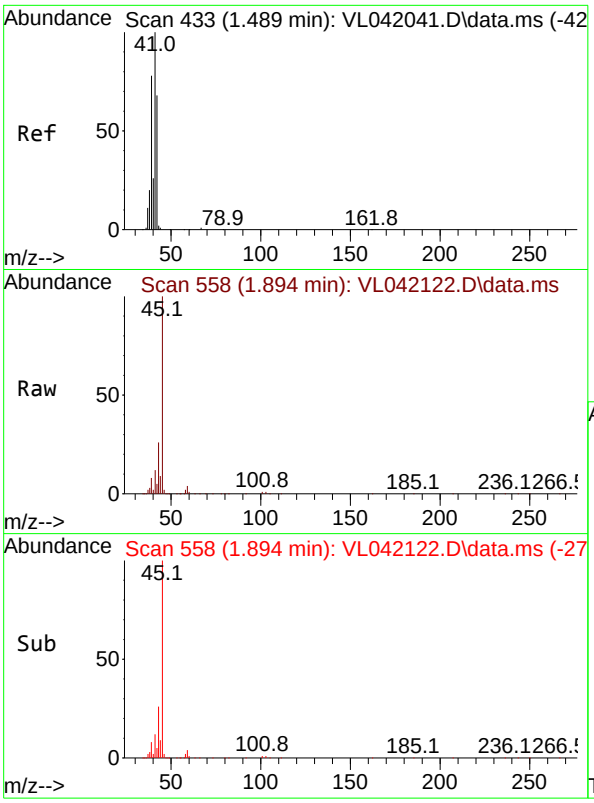


#8
Dichlorotetrafluoroethane
Concen: 0.040 ppbv
RT: 1.560 min Scan# 455
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 85 Resp: 560

Ion	Ratio	Lower	Upper
85	100		
135	0.0	54.6	81.8#



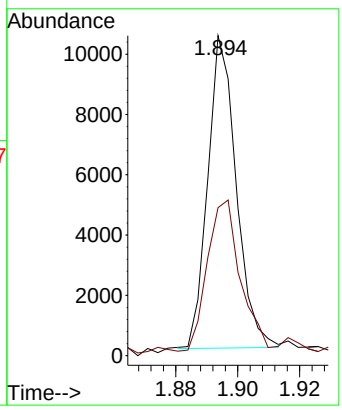


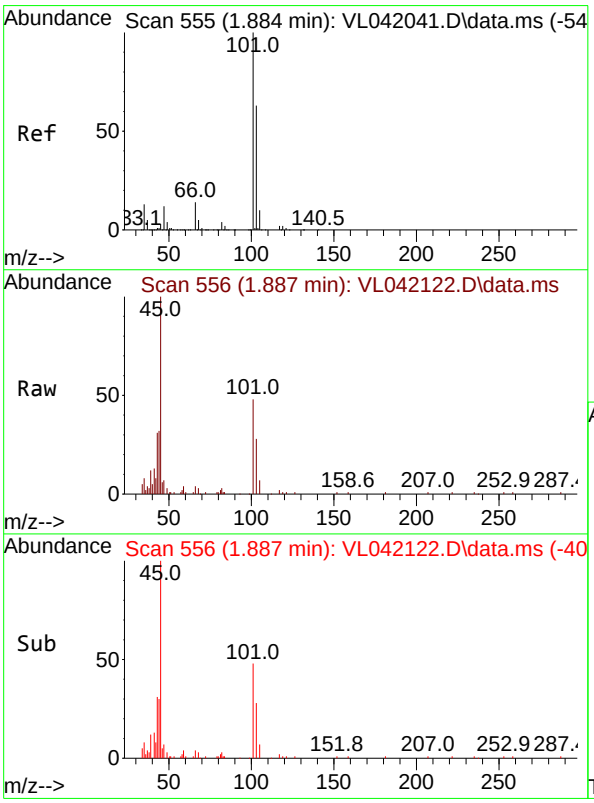
#9
Propene
Concen: 0.681 ppbv
RT: 1.894 min Scan# 5
Delta R.T. 0.404 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 41 Resp: 6606

Ion	Ratio	Lower	Upper
41	100		
42	57.8	55.8	83.6

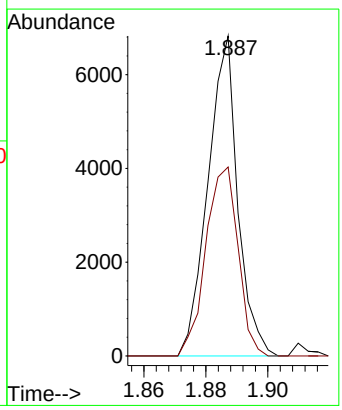


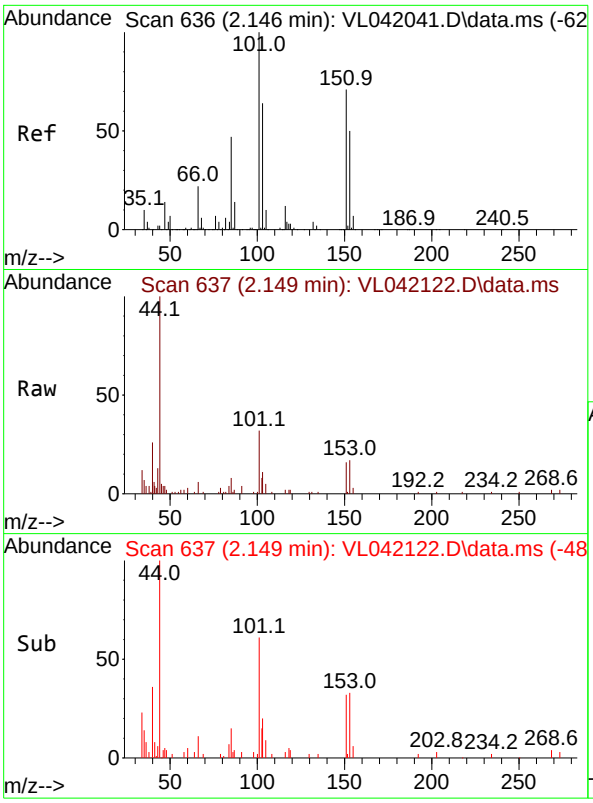


#11
Trichlorofluoromethane
Concen: 0.267 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion:101 Resp: 4555

Ion	Ratio	Lower	Upper
101	100		
103	59.0	50.6	75.8



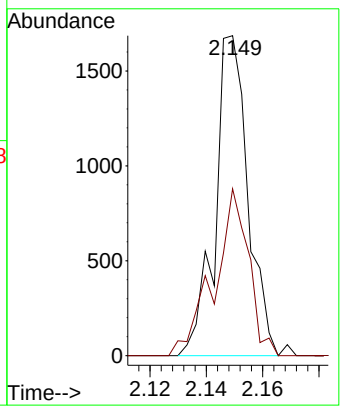


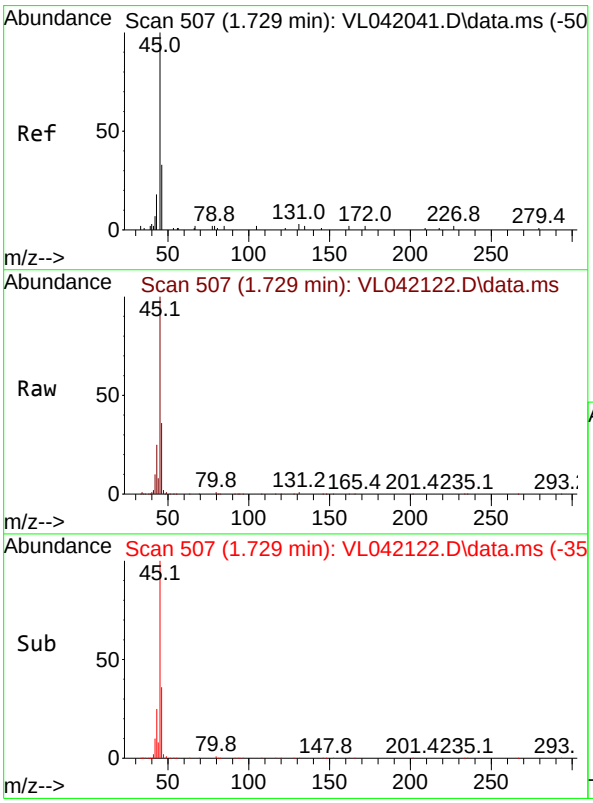
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.100 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion:101 Resp: 1360

Ion	Ratio	Lower	Upper
101	100		
151	54.8	62.6	94.0#

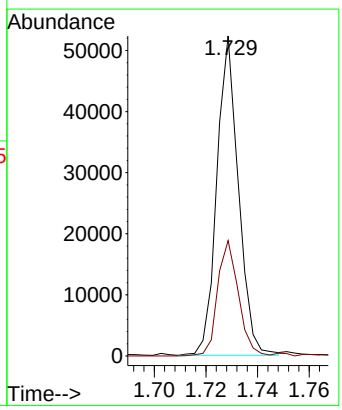


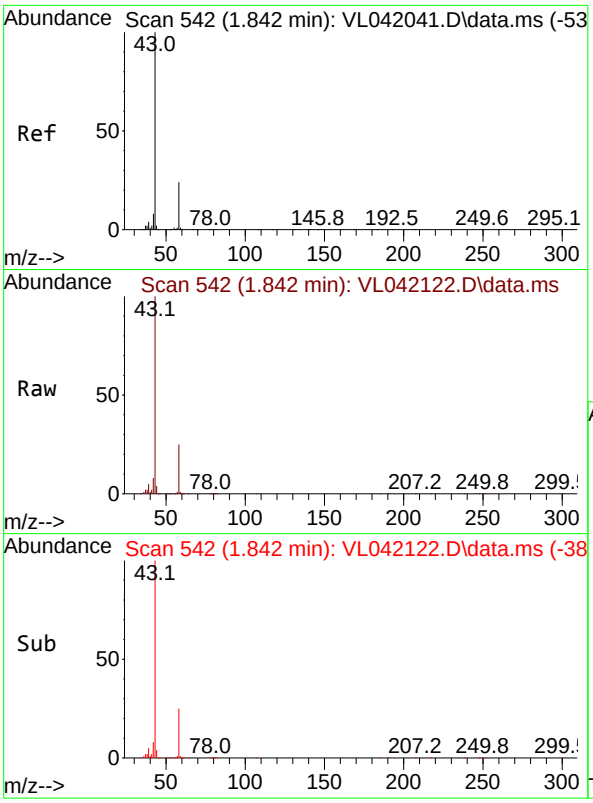


#13
Ethanol
Concen: 49.354 ppbv
RT: 1.729 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 45 Resp: 30378

Ion	Ratio	Lower	Upper
45	100		
46	35.4	17.1	68.3



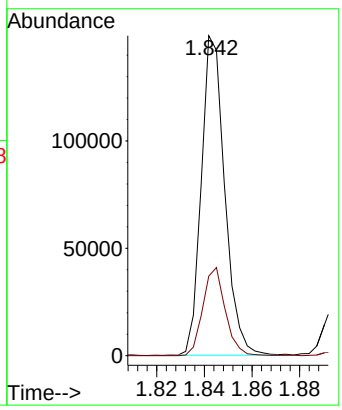


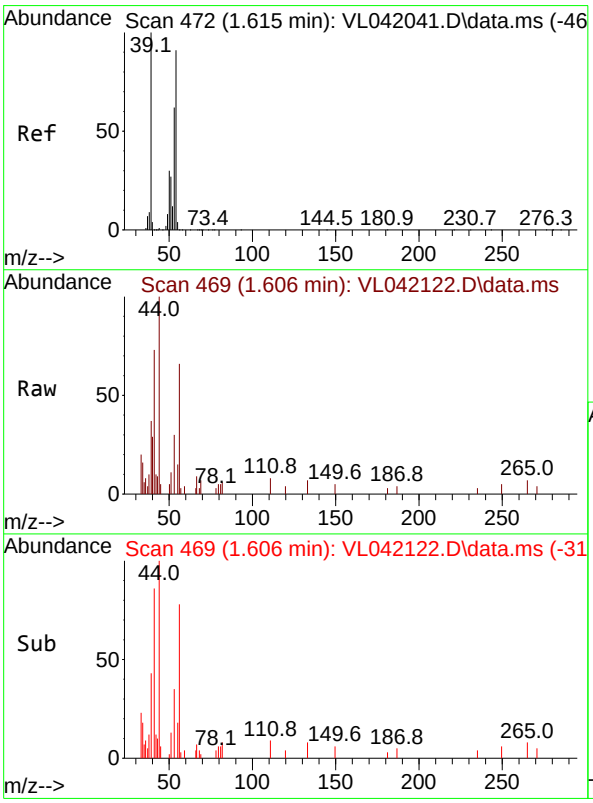
#15
Acetone
Concen: 7.034 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 43 Resp: 101724

Ion	Ratio	Lower	Upper
43	100		
58	26.4	20.7	31.1

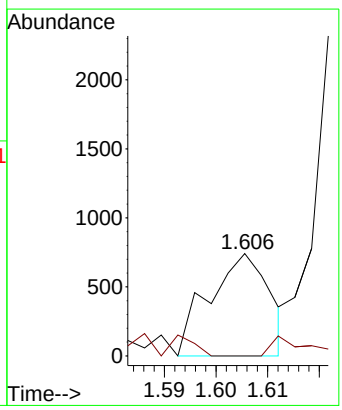


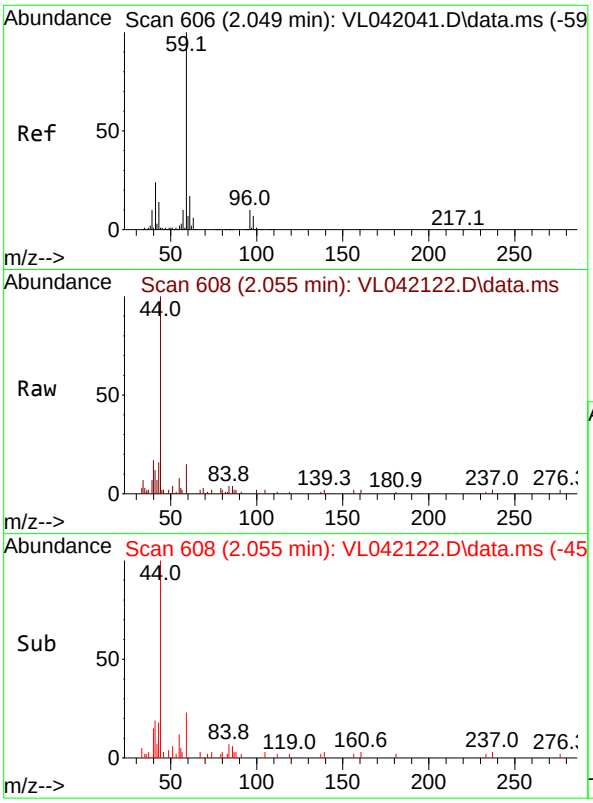


#16
1,3-Butadiene
Concen: 0.090 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.010 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 39 Resp: 605

Ion	Ratio	Lower	Upper
39	100		
54	10.7	59.6	89.4#



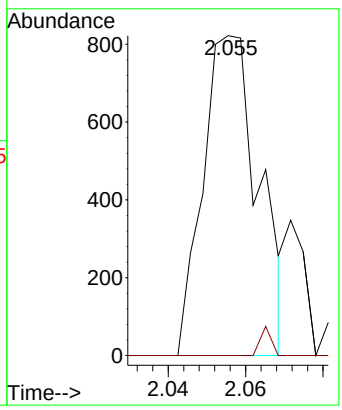


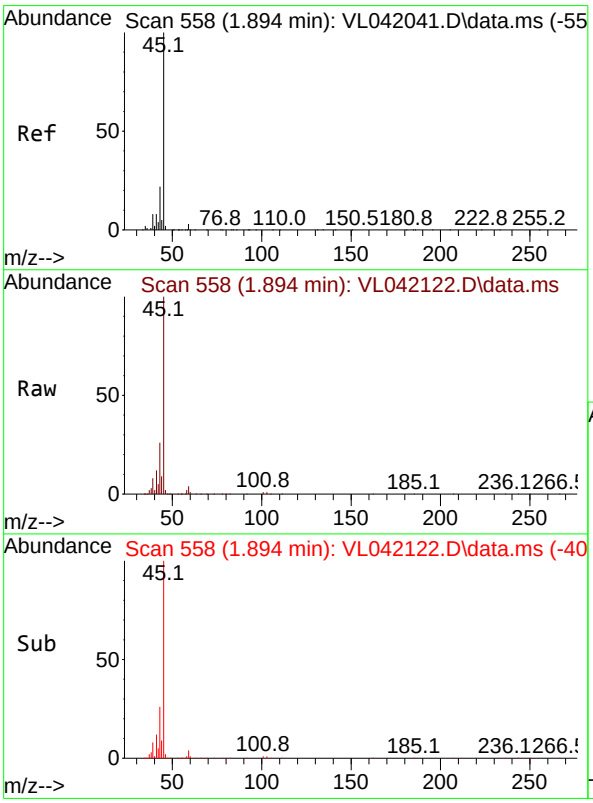
#17
tert-Butyl alcohol
Concen: 0.045 ppbv
RT: 2.055 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 59 Resp: 823

Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.3	13.9#

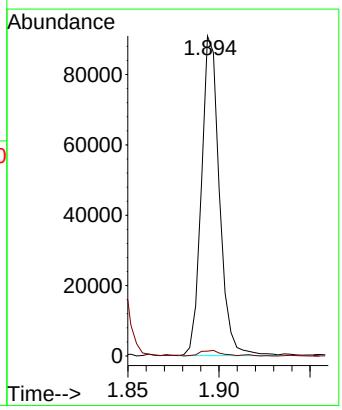


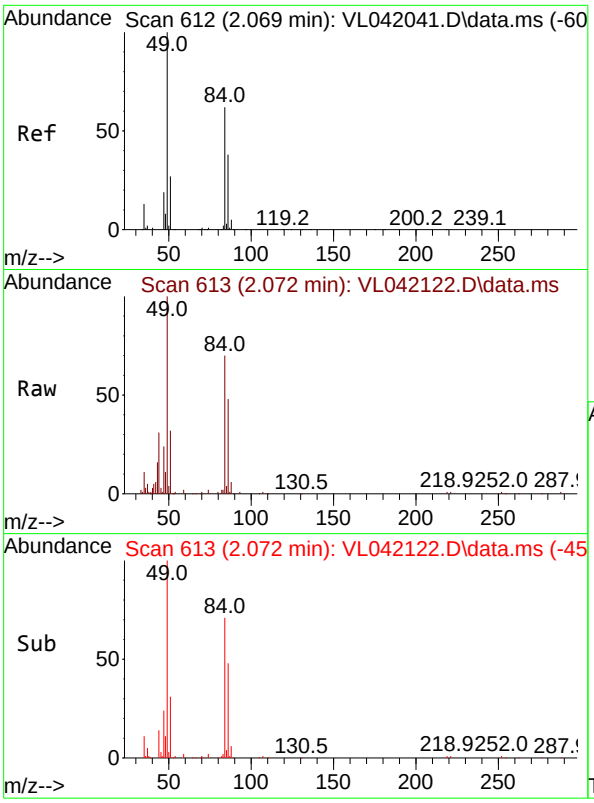


#19
Isopropyl Alcohol
Concen: 7.534 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 45 Resp: 62582

Ion	Ratio	Lower	Upper
45	100		
58	2.3	35.3	52.9#



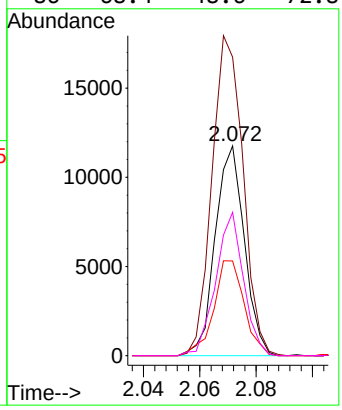


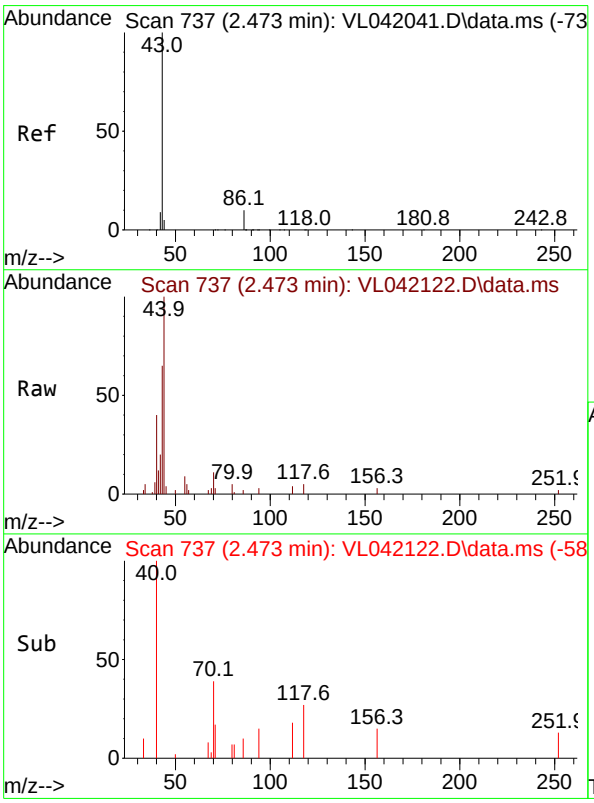
#20
Methylene Chloride
Concen: 1.546 ppbv
RT: 2.072 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 84 Resp: 8455

Ion	Ratio	Lower	Upper
84	100		
49	142.3	130.0	195.0
51	45.2	37.4	56.0
86	68.4	48.6	72.8

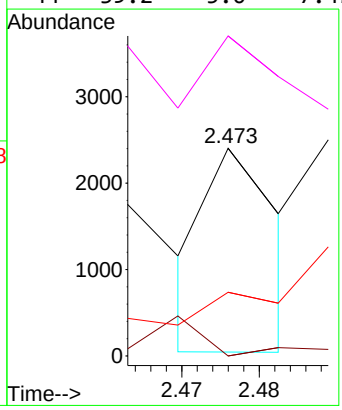


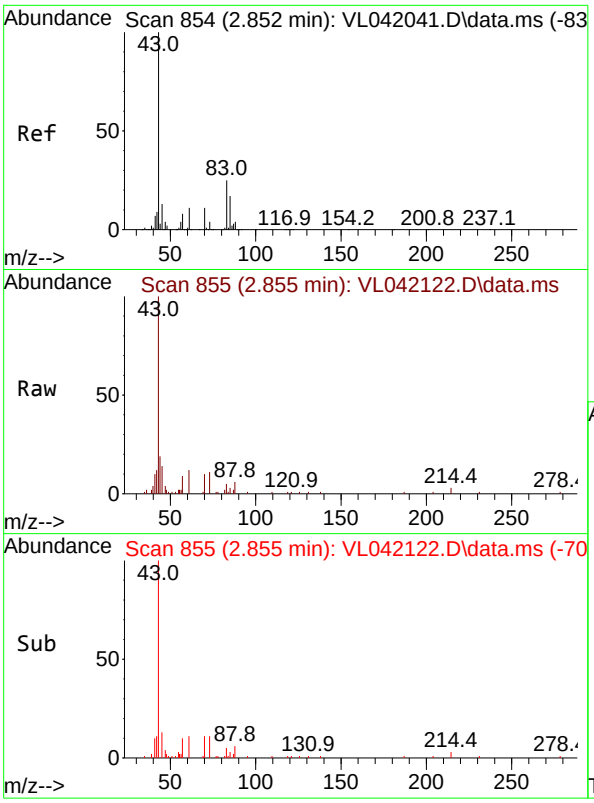


#23
Vinyl Acetate
Concen: 0.076 ppbv
RT: 2.473 min Scan# 737
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 43 Resp: 768

Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.0	10.4#
42	30.5	7.6	11.4#
44	39.2	5.0	7.4#



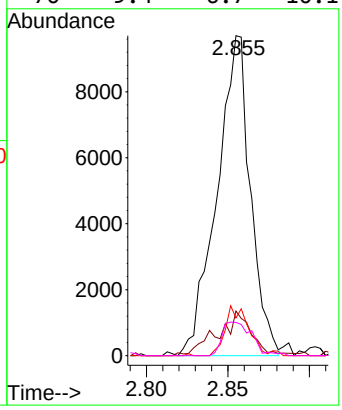


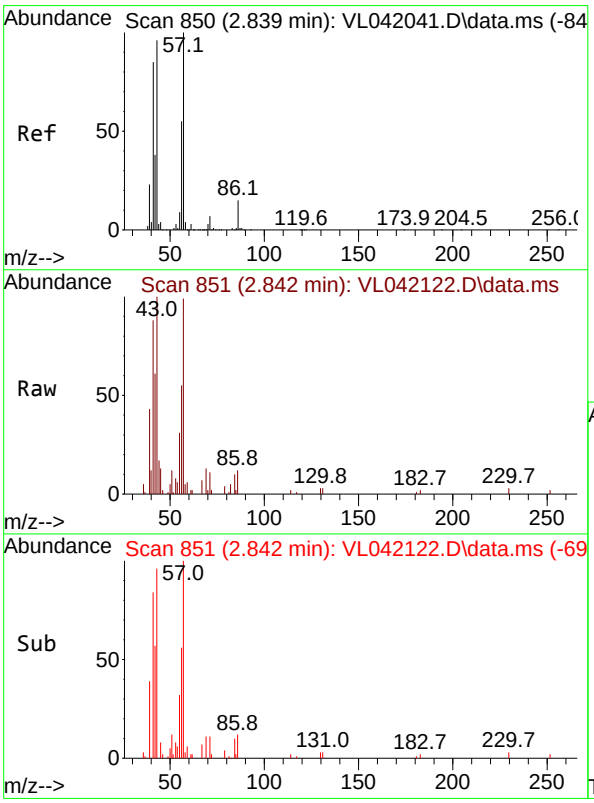
#25
Ethyl Acetate
Concen: 0.239 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 43 Resp: 13851

Ion	Ratio	Lower	Upper
43	100		
45	14.4	8.1	12.1#
61	11.1	7.2	10.8#
70	9.4	6.7	10.1

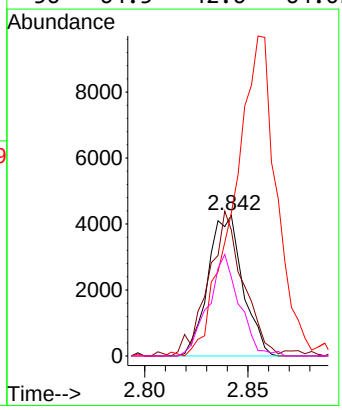


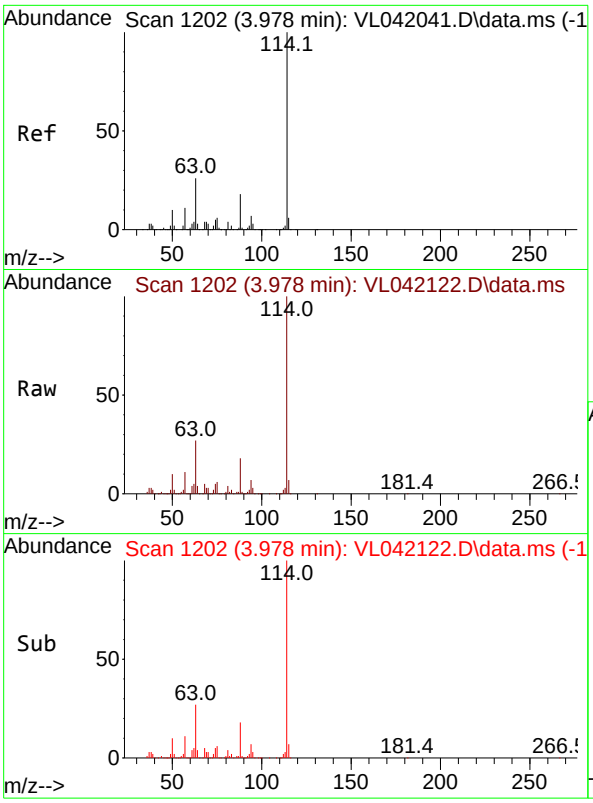


#26
Hexane
Concen: 0.213 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 57 Resp: 4982

Ion	Ratio	Lower	Upper
57	100		
41	106.3	70.6	106.0#
43	291.5	199.4	299.0
56	64.5	42.6	64.0#



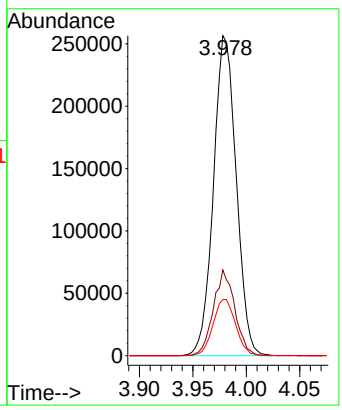


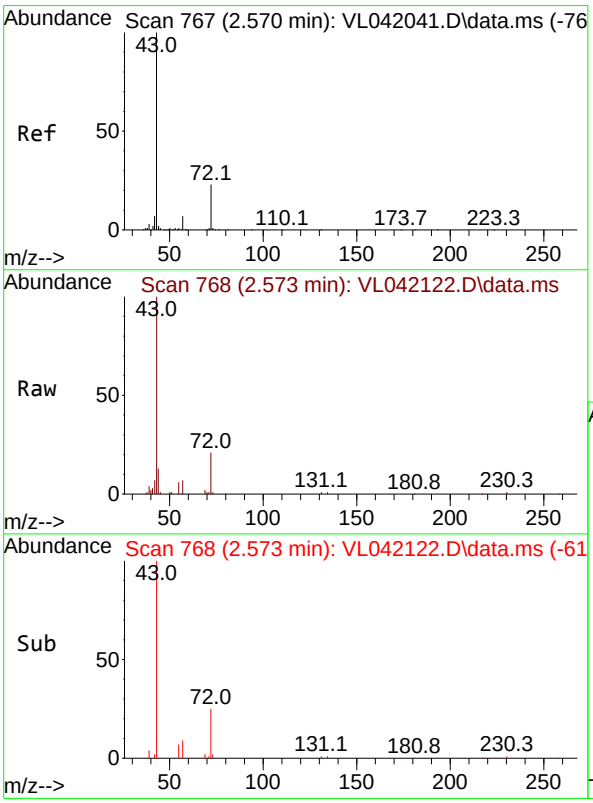
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion:114 Resp: 380274

Ion	Ratio	Lower	Upper
114	100		
63	25.3	20.1	30.1
88	17.5	14.3	21.5

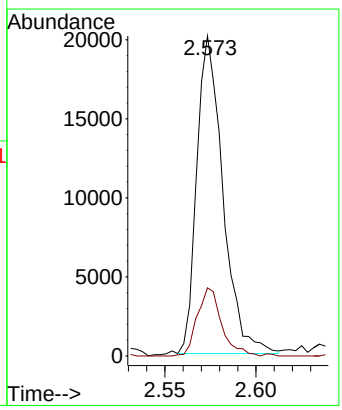


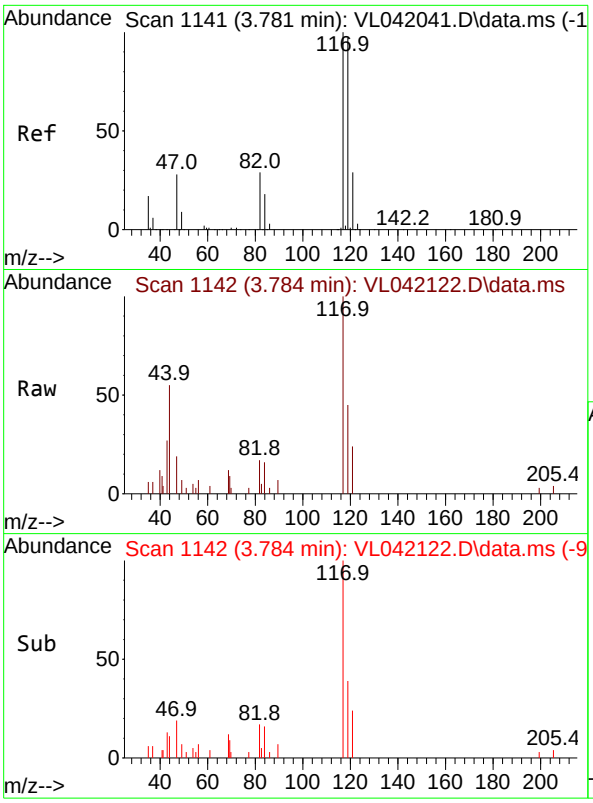


#34
2-Butanone
Concen: 0.678 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 43 Resp: 20082

Ion	Ratio	Lower	Upper
43	100		
72	20.1	18.5	27.7



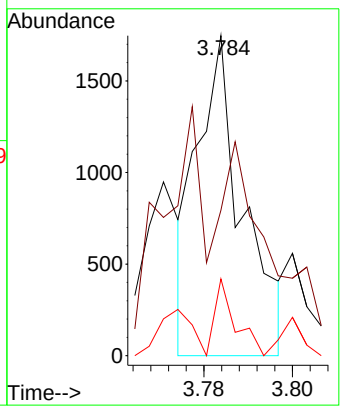


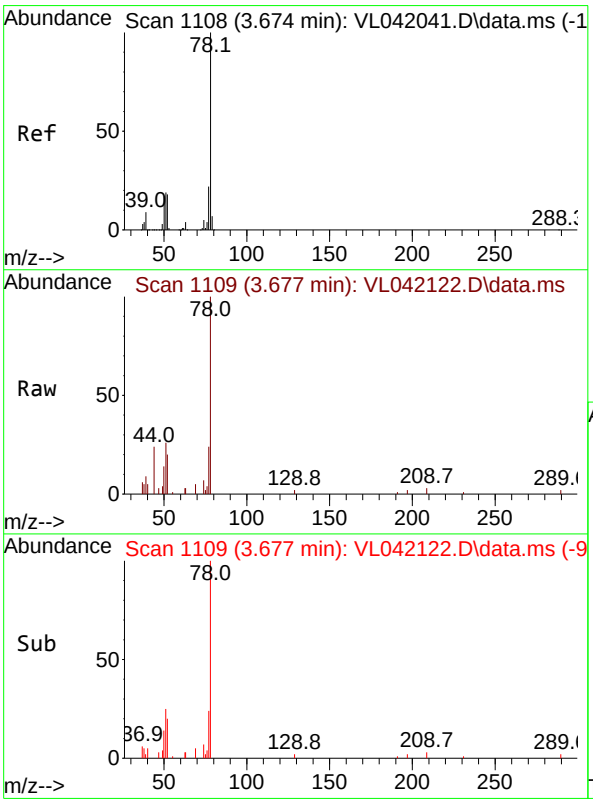
#35
Carbon Tetrachloride
Concen: 0.048 ppbv
RT: 3.784 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion:117 Resp: 1254

Ion	Ratio	Lower	Upper
117	100		
119	26.7	77.8	116.8#
121	24.9	23.4	35.0

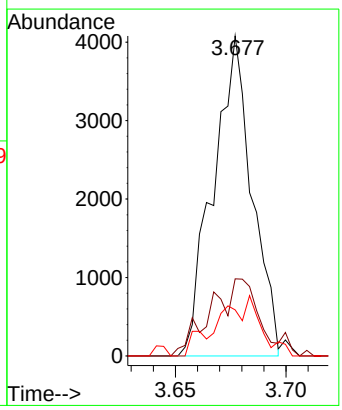


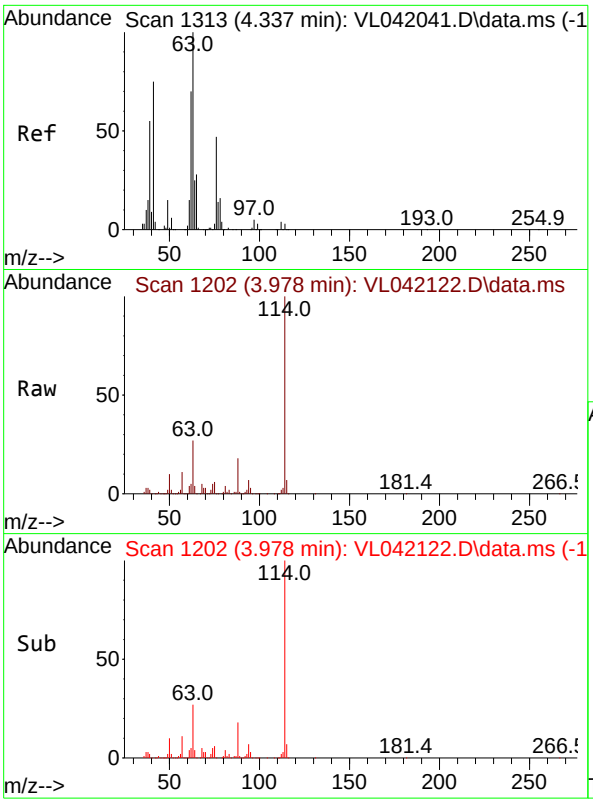


#36
Benzene
Concen: 0.125 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 78 Resp: 4996

Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.7	26.5
50	14.4	13.9	20.9



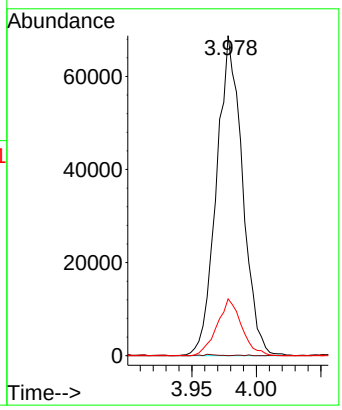


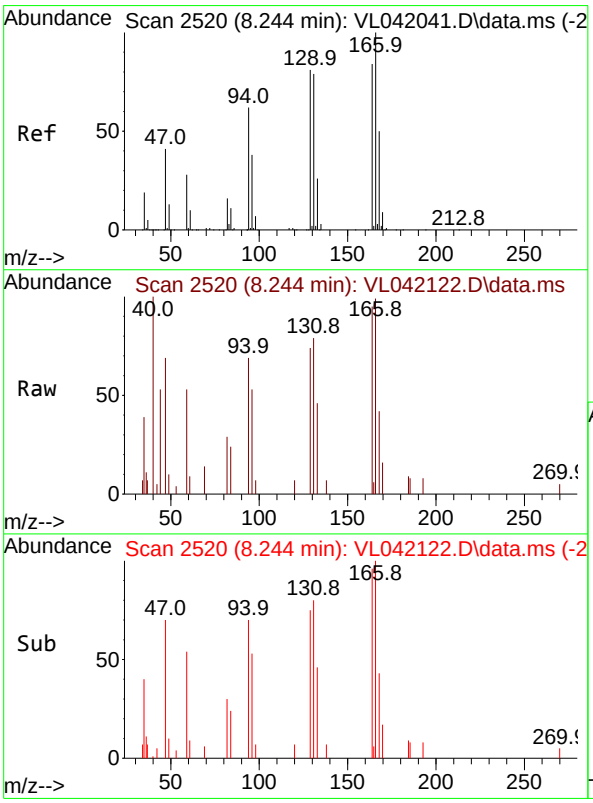
#39
1,2-Dichloropropane
Concen: 6.351 ppbv
RT: 3.978 min Scan# 1
Delta R.T. -0.359 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 63 Resp: 95966

Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.1	90.1#
62	17.6	55.8	83.8#

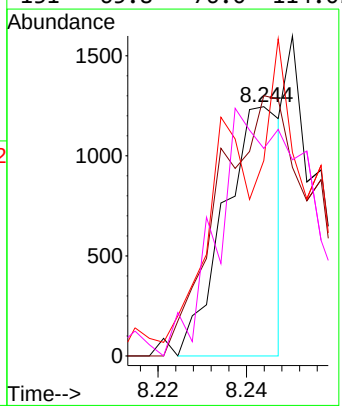


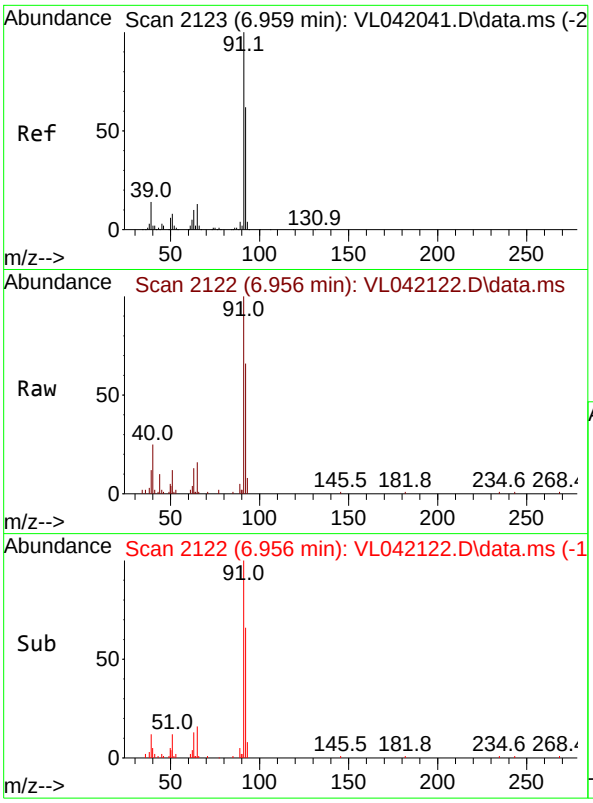


#52
Tetrachloroethene
Concen: 0.081 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion:164 Resp: 1104

Ion	Ratio	Lower	Upper
164	100		
166	90.4	95.7	143.5#
129	62.2	77.1	115.7#
131	65.8	76.0	114.0#



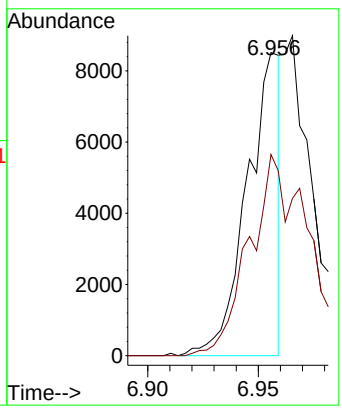


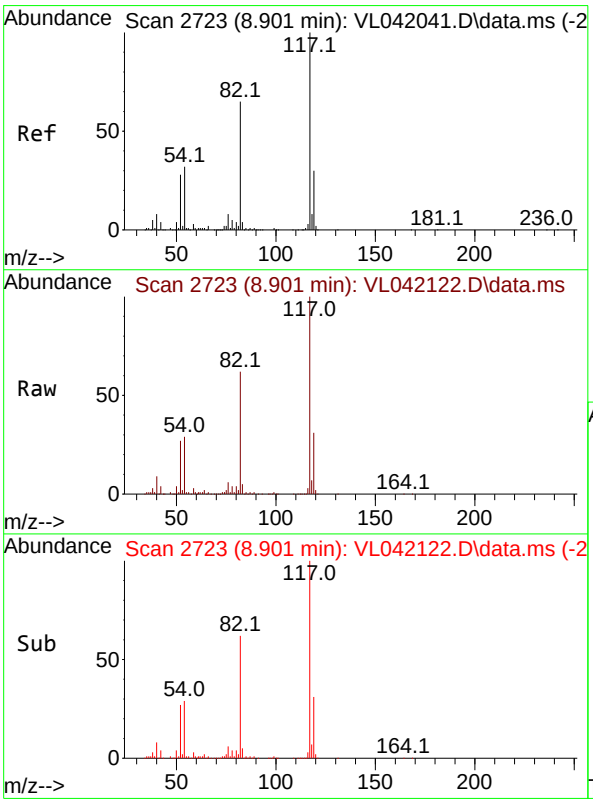
#53
Toluene
Concen: 0.198 ppbv
RT: 6.956 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 91 Resp: 8789

Ion	Ratio	Lower	Upper
91	100		
92	117.9	49.0	73.6#

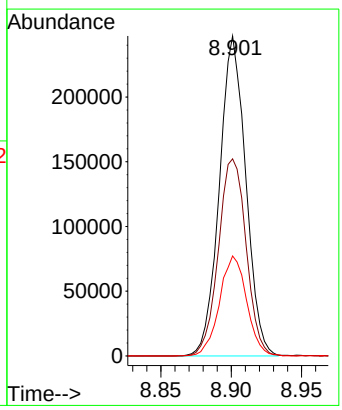


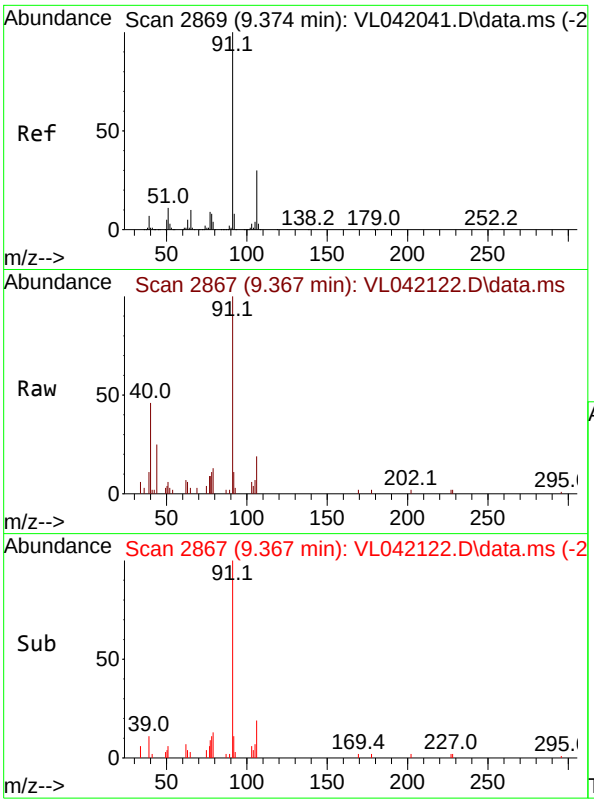


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion:117 Resp: 322839

Ion	Ratio	Lower	Upper
117	100		
82	65.0	55.0	82.6
119	32.4	25.9	38.9



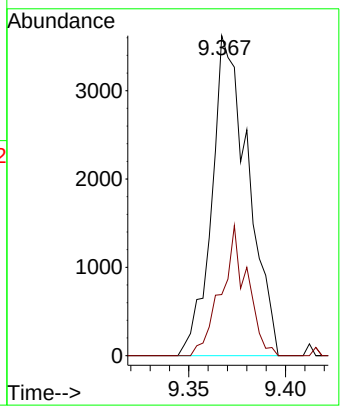


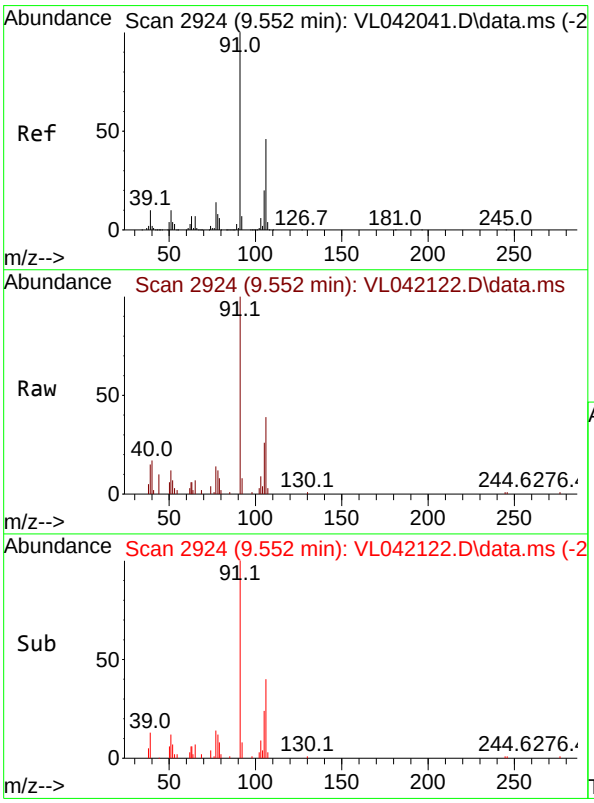
#58
Ethyl Benzene
Concen: 0.079 ppbv
RT: 9.367 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 91 Resp: 4720

Ion	Ratio	Lower	Upper
91	100		
106	17.2	24.2	36.2#

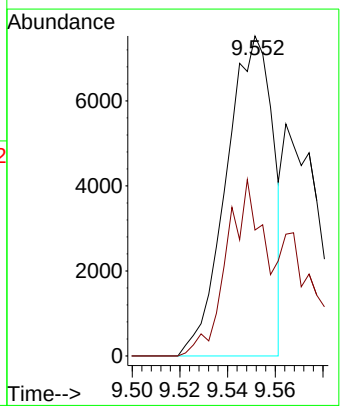


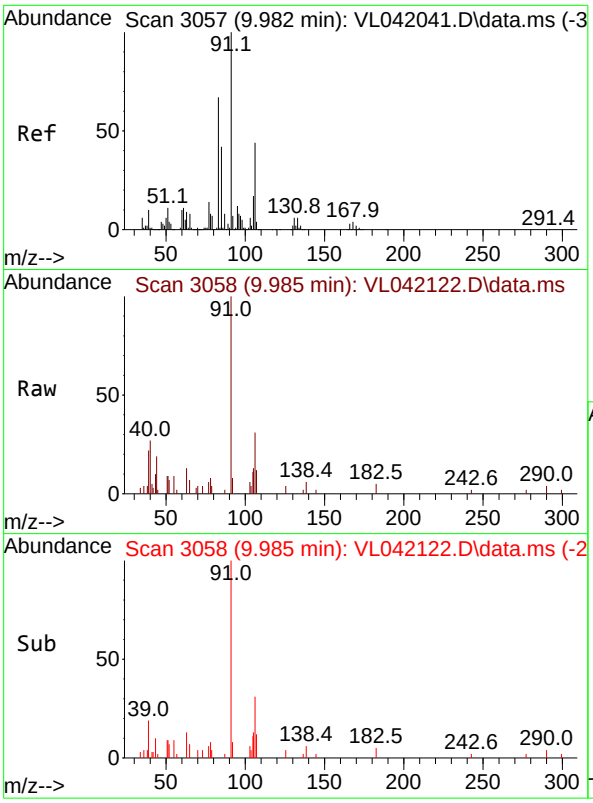


#59
m/p-Xylene
Concen: 0.217 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 91 Resp: 10254

Ion	Ratio	Lower	Upper
91	100		
106	73.5	0.0	0.0#



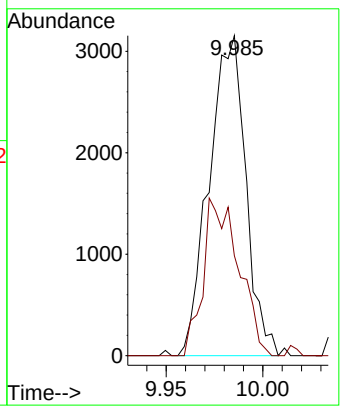


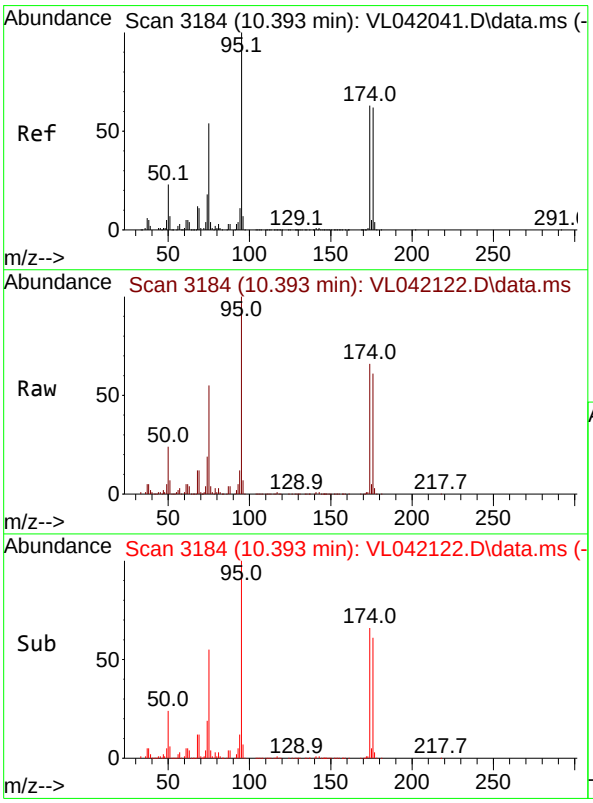
#60
o-Xylene
Concen: 0.087 ppbv
RT: 9.985 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion: 91 Resp: 4159

Ion	Ratio	Lower	Upper
91	100		
106	48.5	22.3	66.8

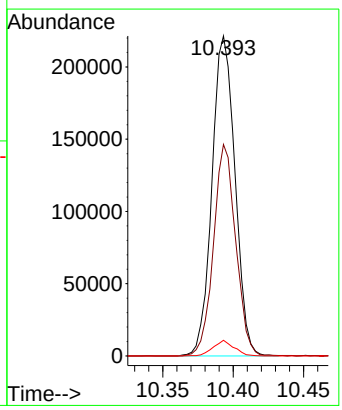


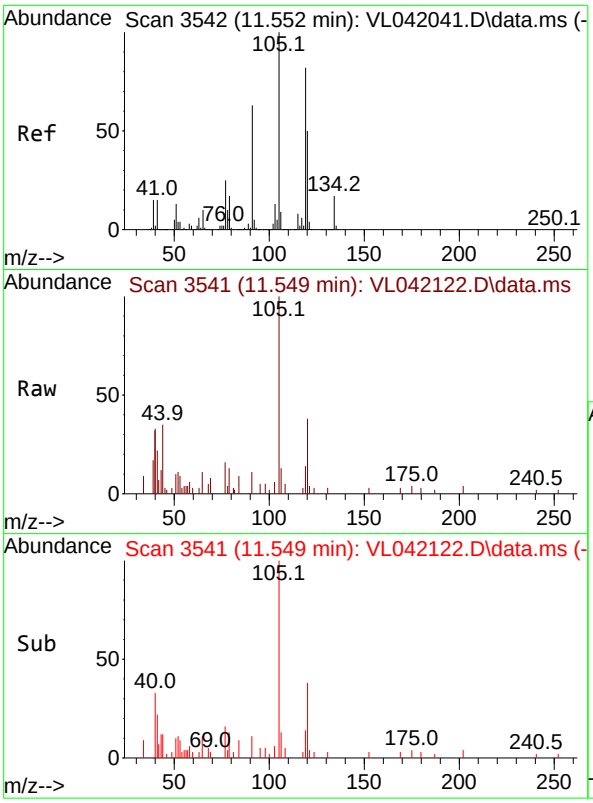


#68
1-Bromo-4-Fluorobenzene
Concen: 10.146 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Tgt Ion: 95 Resp: 251994

Ion	Ratio	Lower	Upper
95	100		
174	64.1	51.8	77.6
175	4.5	3.9	5.9



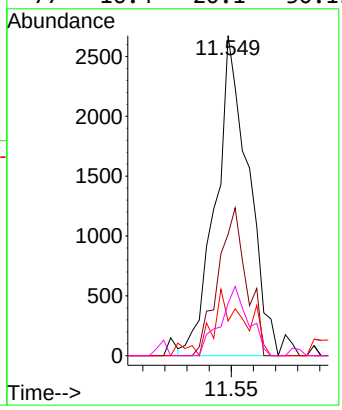


#74
1,2,4-Trimethylbenzene
Concen: 0.048 ppbv
RT: 11.549 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042122.D
Acq: 10 Mar 2025 13:32

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion:105 Resp: 2738

Ion	Ratio	Lower	Upper
105	100		
120	38.0	40.2	60.2#
91	10.8	51.4	77.2#
77	16.4	20.1	30.1#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042123.D
Acq On : 10 Mar 2025 14:06
Operator : SY/MD
Sample : Q1532-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
2

Quant Time: Mar 11 01:24:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

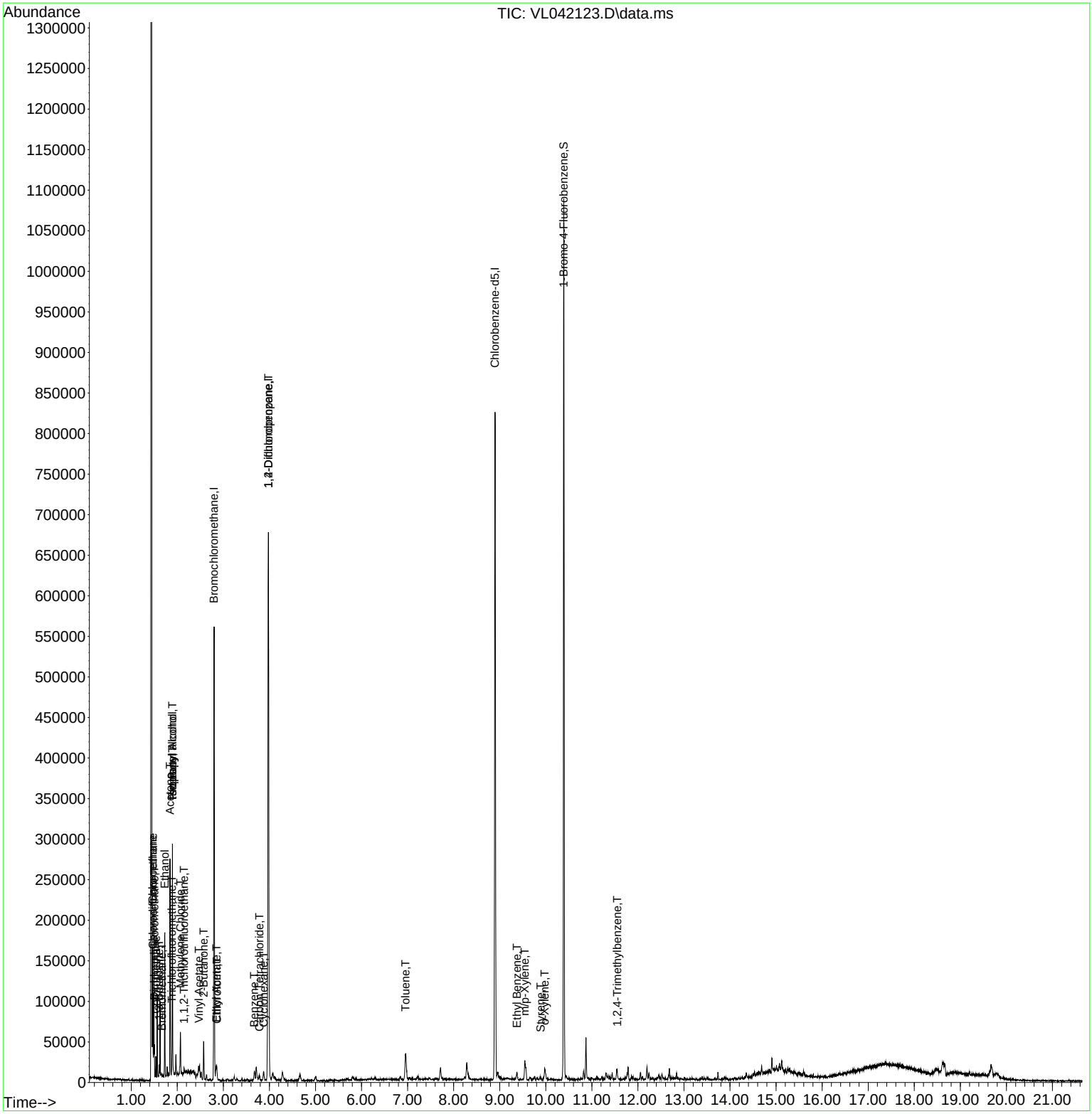
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	166689	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.978	114	387215	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	330250	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	257155	10.121	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8791	0.507	ppbv		99
3) Chlorodifluoromethane	1.470	51	23041	0.951	ppbv	#	74
4) Chloromethane	1.538	50	6619	1.033	ppbv		93
6) Bromomethane	1.670	94	172	0.060	ppbv	#	2
7) Chloroethane	1.463	64	17066	6.927	ppbv	#	40
9) Propene	1.894	41	11574	1.173	ppbv		87
11) Trichlorofluoromethane	1.884	101	4086	0.235	ppbv		85
12) 1,1,2-Trichlorotrifluo...	2.146	101	1343	0.097	ppbv		97
13) Ethanol	1.729	45	64435	102.846	ppbv		88
15) Acetone	1.842	43	112970	7.674	ppbv		98
16) 1,3-Butadiene	1.606	39	1881	0.275	ppbv	#	50
17) tert-Butyl alcohol	1.894	59	4238	0.230	ppbv		99
19) Isopropyl Alcohol	1.894	45	110681	13.090	ppbv	#	35
20) Methylene Chloride	2.068	84	6629	1.191	ppbv		95
23) Vinyl Acetate	2.467	43	8799	0.850	ppbv	#	82
25) Ethyl Acetate	2.852	43	8747	0.148	ppbv	#	84
29) Chloroform	2.861	83	3349	0.104	ppbv	#	77
30) Cyclohexane	3.874	84	1368	0.071	ppbv	#	1
34) 2-Butanone	2.570	43	29478	0.977	ppbv		96
35) Carbon Tetrachloride	3.784	117	873	0.033	ppbv	#	65
36) Benzene	3.671	78	5828	0.144	ppbv	#	93
39) 1,2-Dichloropropane	3.978	63	99800	6.486	ppbv	#	22
53) Toluene	6.956	91	12988	0.287	ppbv	#	20
58) Ethyl Benzene	9.370	91	3070	0.050	ppbv		97
59) m/p-Xylene	9.545	91	15092	0.312	ppbv	#	100
60) o-Xylene	9.976	91	4696	0.097	ppbv		93
61) Styrene	9.888	104	953	0.042	ppbv	#	80
74) 1,2,4-Trimethylbenzene	11.552	105	3231	0.056	ppbv	#	61

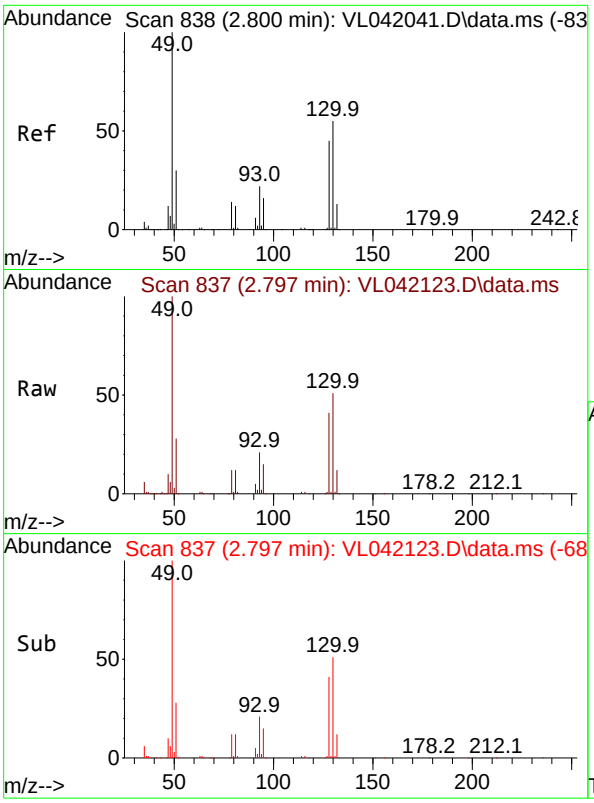
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042123.D
Acq On : 10 Mar 2025 14:06
Operator : SY/MD
Sample : Q1532-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
2

Quant Time: Mar 11 01:24:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



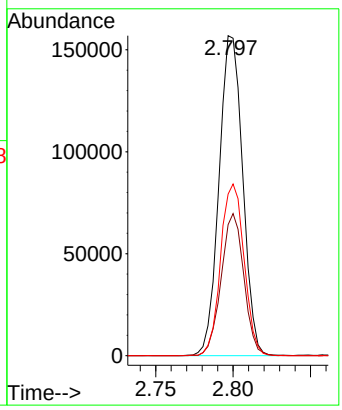


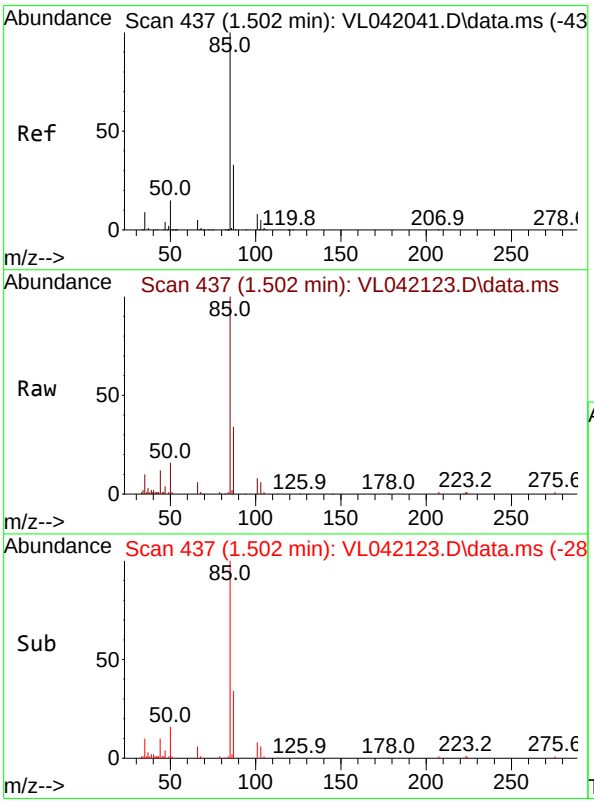
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 49 Resp: 166689

Ion	Ratio	Lower	Upper
49	100		
128	42.6	21.6	64.8
130	53.2	27.8	83.4

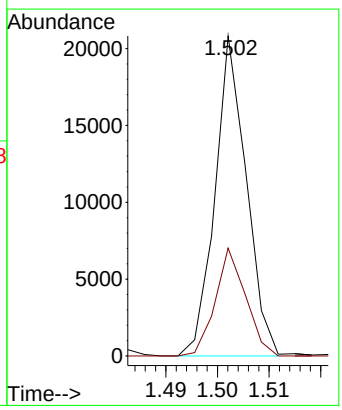


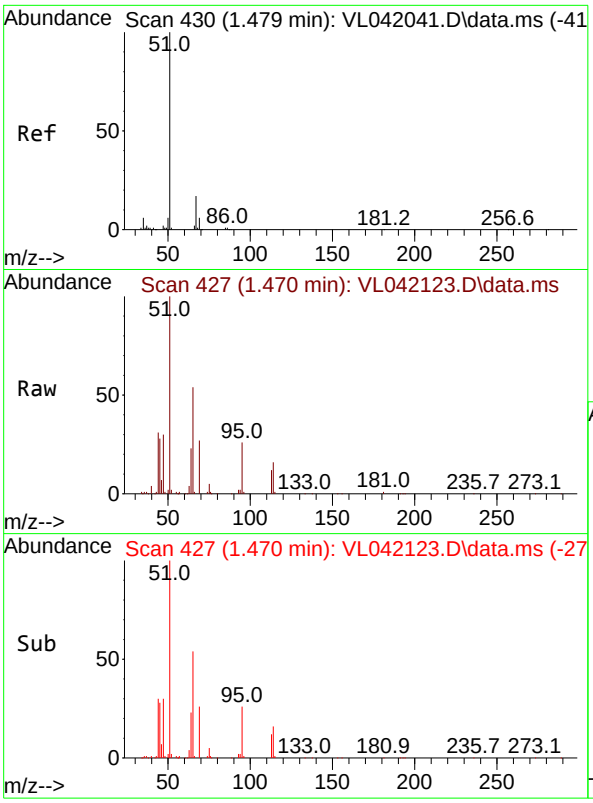


#2
Dichlorodifluoromethane
Concen: 0.507 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 85 Resp: 8791

Ion	Ratio	Lower	Upper
85	100		
87	33.7	26.4	39.6



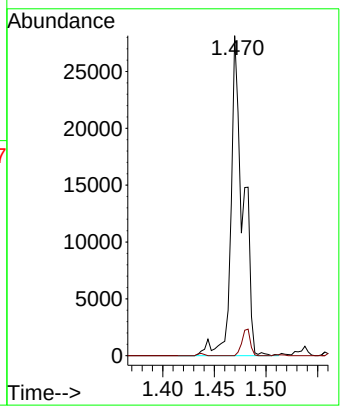


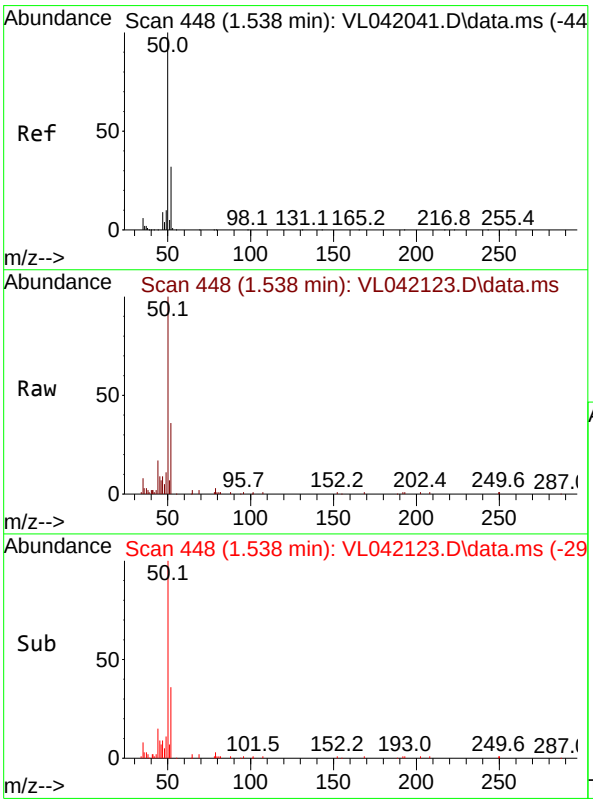
#3
Chlorodifluoromethane
Concen: 0.951 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 51 Resp: 23041

Ion	Ratio	Lower	Upper
51	100		
67	5.6	13.7	20.5#

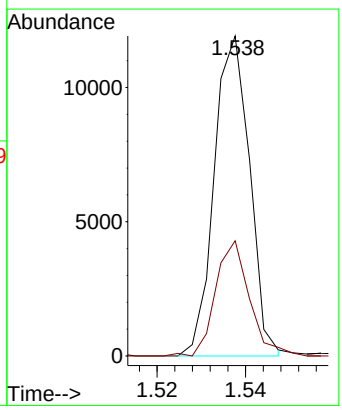


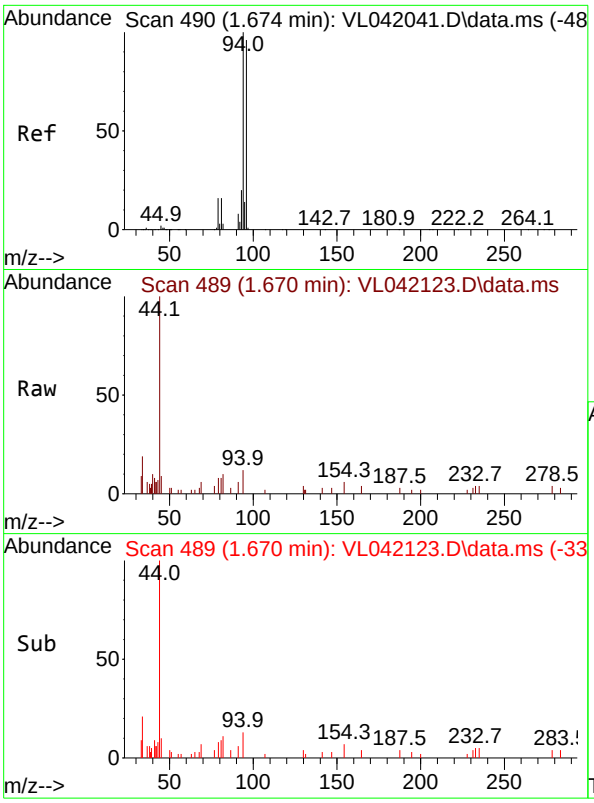


#4
Chloromethane
Concen: 1.033 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 50 Resp: 6619

Ion	Ratio	Lower	Upper
50	100		
52	35.4	25.4	38.0



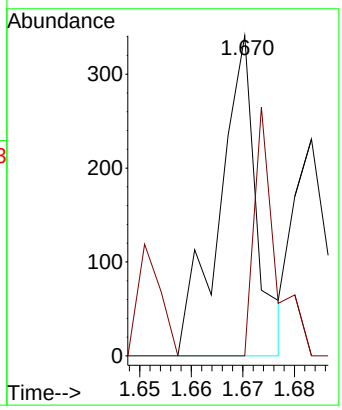


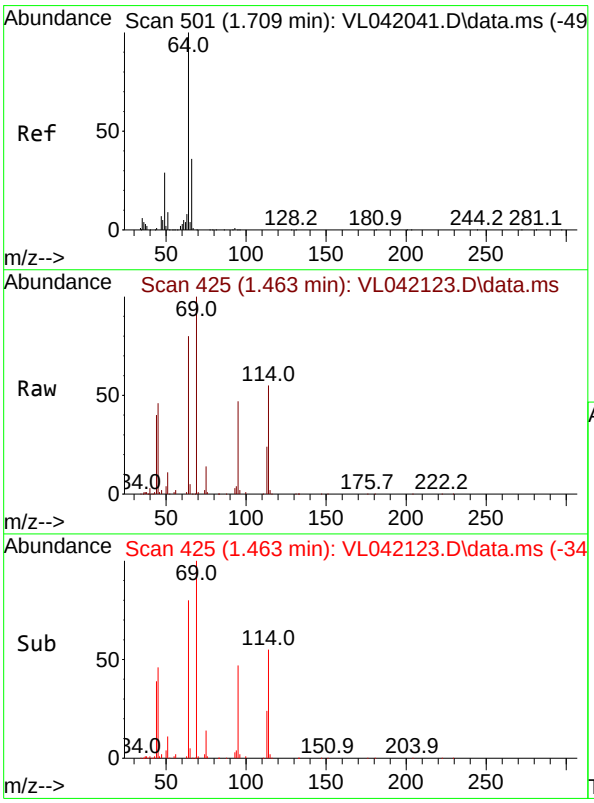
#6
Bromomethane
Concen: 0.060 ppbv
RT: 1.670 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 94 Resp: 172

Ion	Ratio	Lower	Upper
94	100		
96	0.0	76.5	114.7#

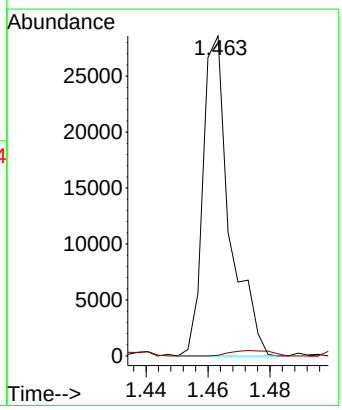


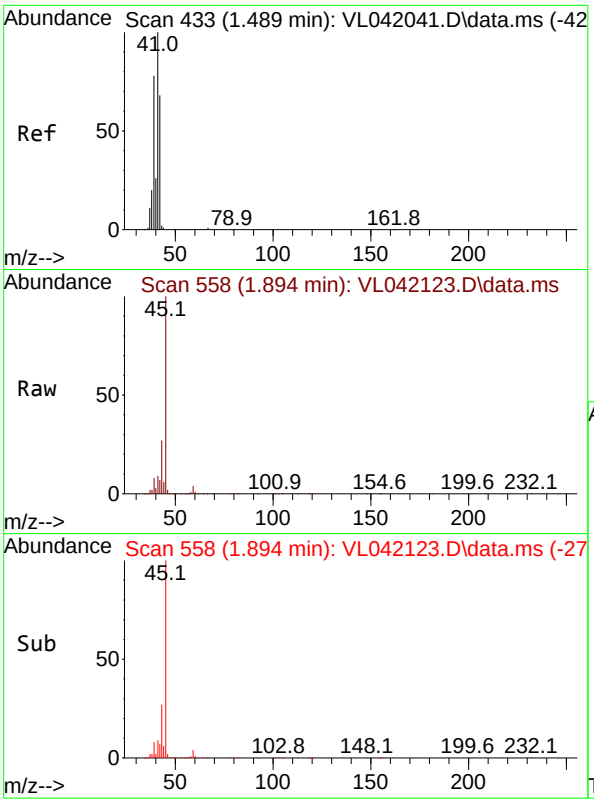


#7
Chloroethane
Concen: 6.927 ppbv
RT: 1.463 min Scan# 425
Delta R.T. -0.246 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 64 Resp: 17066

Ion	Ratio	Lower	Upper
64	100		
66	0.2	28.4	42.6#



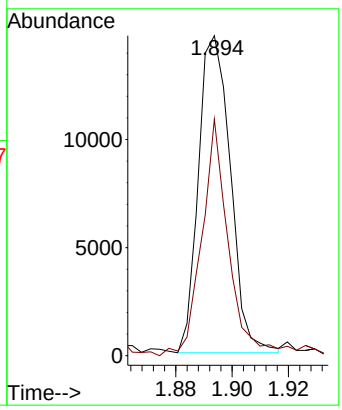


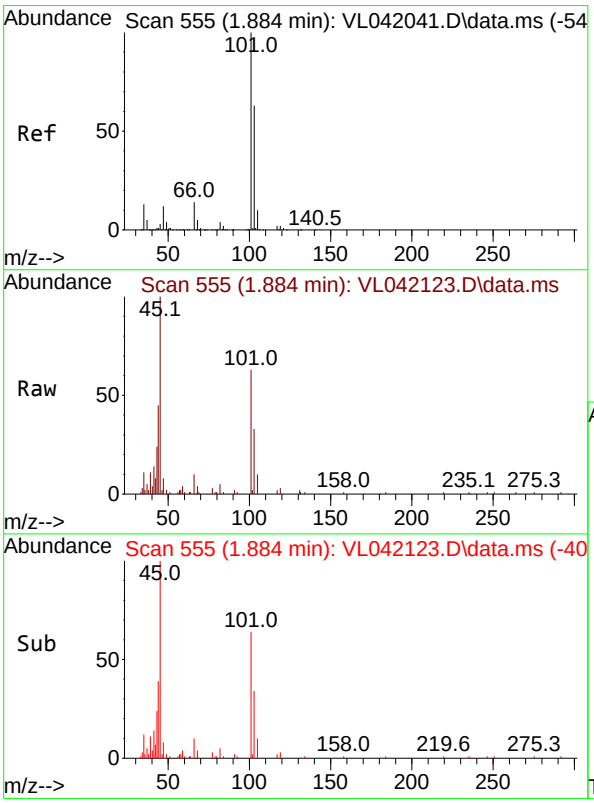
#9
Propene
Concen: 1.173 ppbv
RT: 1.894 min Scan# 5
Delta R.T. 0.404 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 41 Resp: 11574

Ion	Ratio	Lower	Upper
41	100		
42	58.7	55.8	83.6

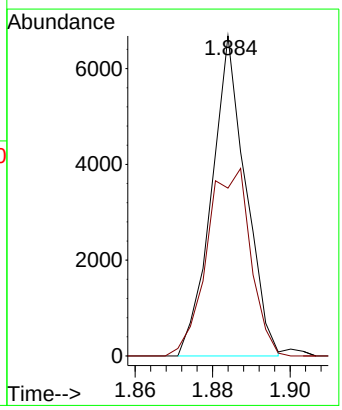


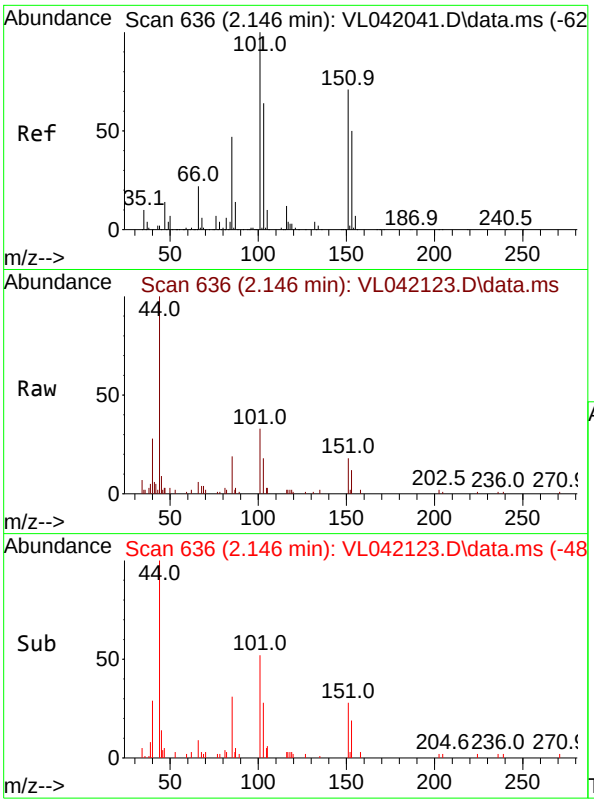


#11
Trichlorofluoromethane
Concen: 0.235 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion:101 Resp: 4086

Ion	Ratio	Lower	Upper
101	100		
103	51.6	50.6	75.8



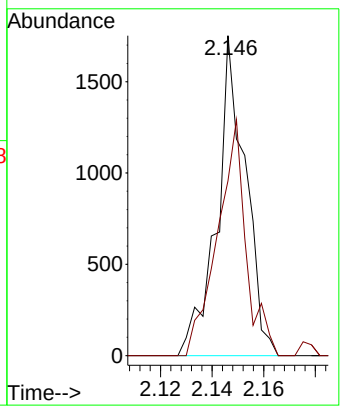


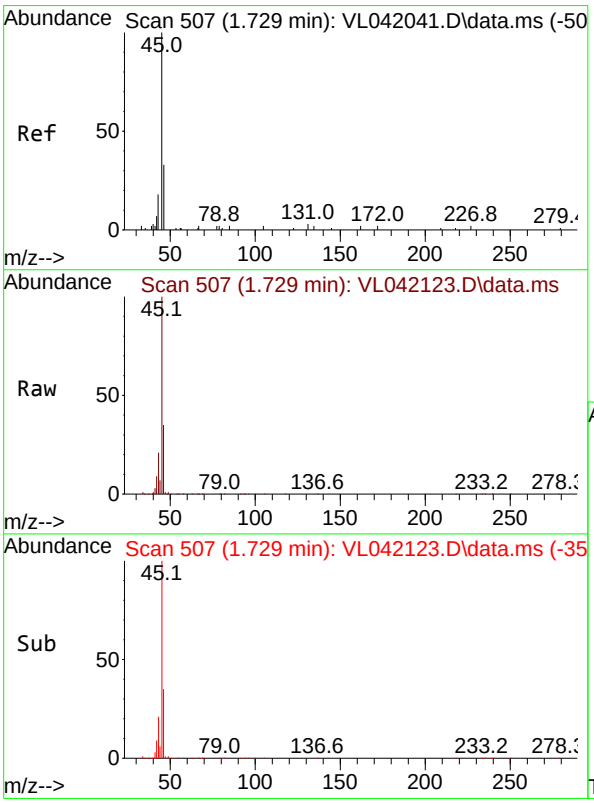
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.097 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion:101 Resp: 1343

Ion	Ratio	Lower	Upper
101	100		
151	75.9	62.6	94.0

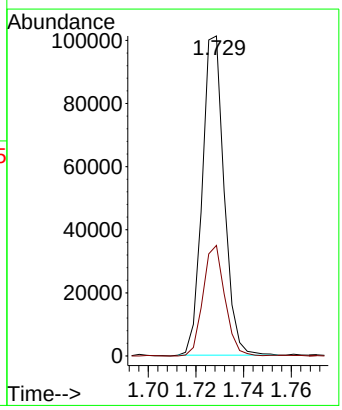


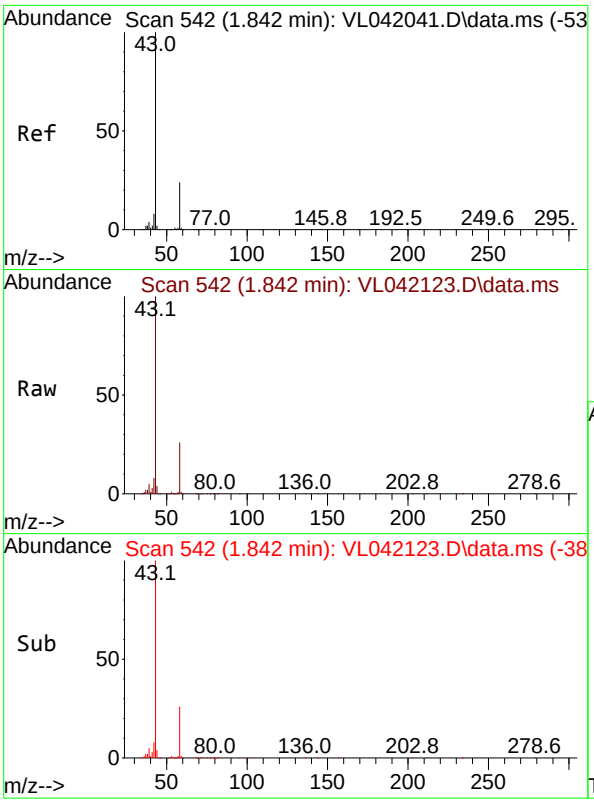


#13
Ethanol
Concen: 102.846 ppbv
RT: 1.729 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 45 Resp: 64435

Ion	Ratio	Lower	Upper
45	100		
46	35.2	17.1	68.3



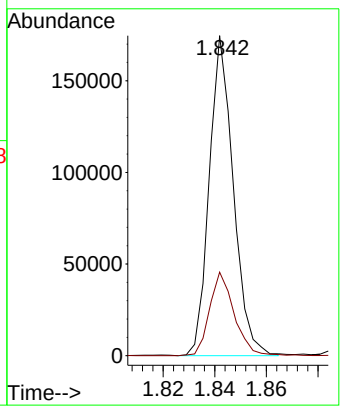


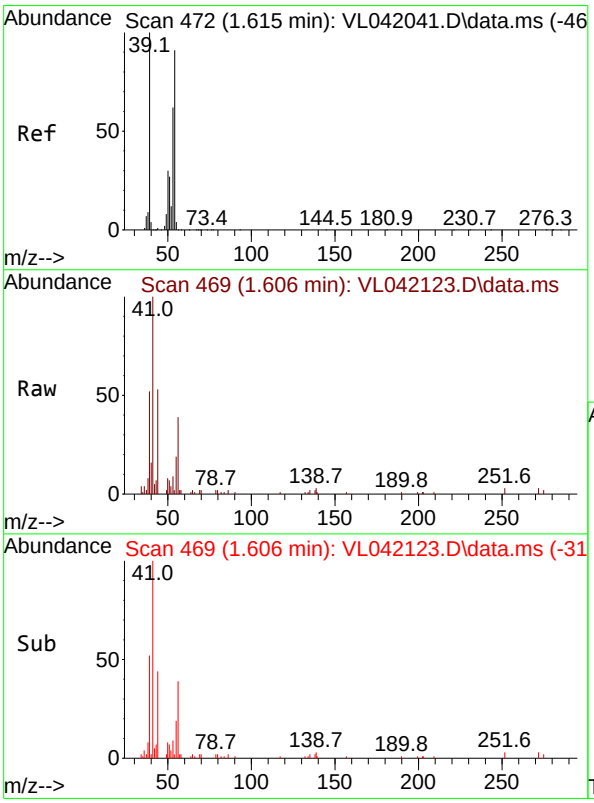
#15
Acetone
Concen: 7.674 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 43 Resp: 112970

Ion	Ratio	Lower	Upper
43	100		
58	26.7	20.7	31.1

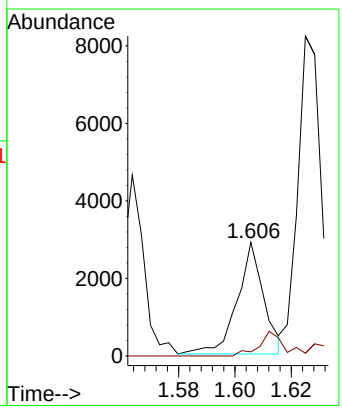


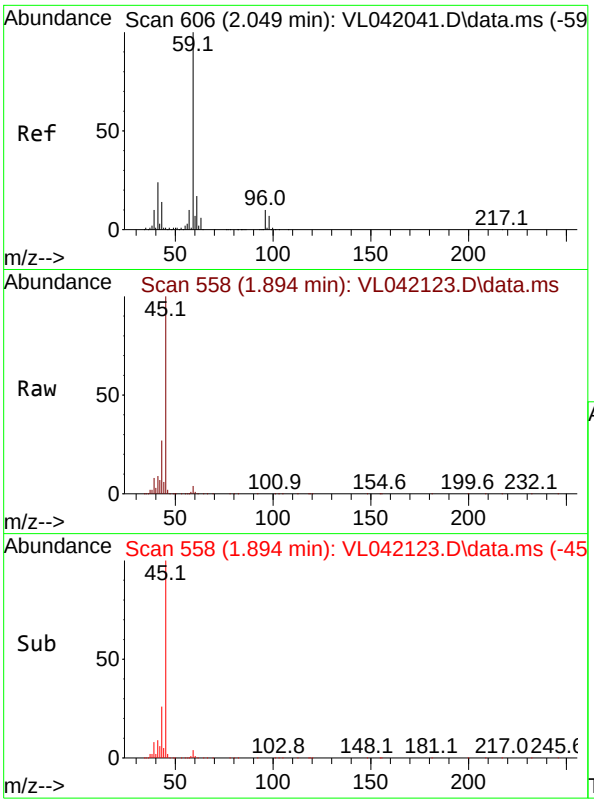


#16
1,3-Butadiene
Concen: 0.275 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.010 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 39 Resp: 1881

Ion	Ratio	Lower	Upper
39	100		
54	32.1	59.6	89.4#



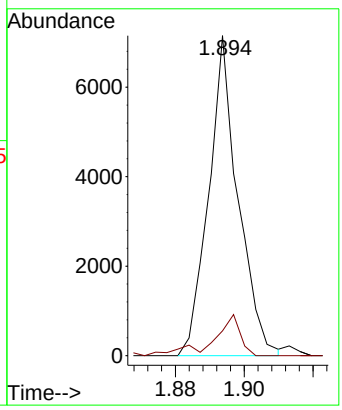


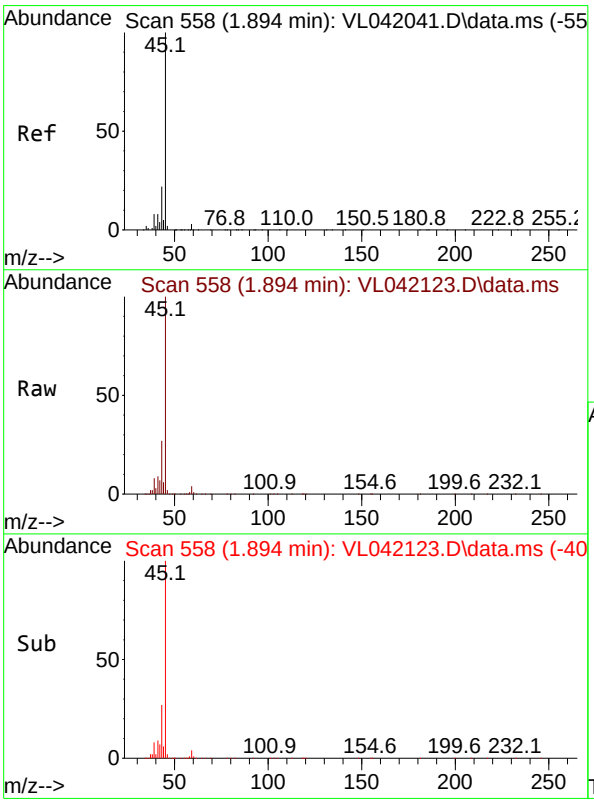
#17
tert-Butyl alcohol
Concen: 0.230 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.155 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 59 Resp: 4238

Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.3	13.9

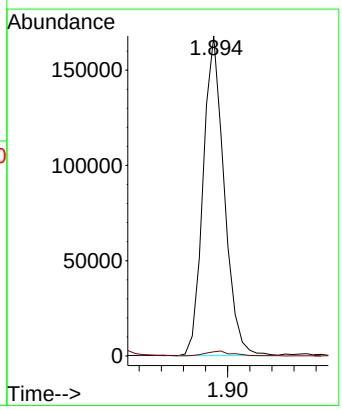


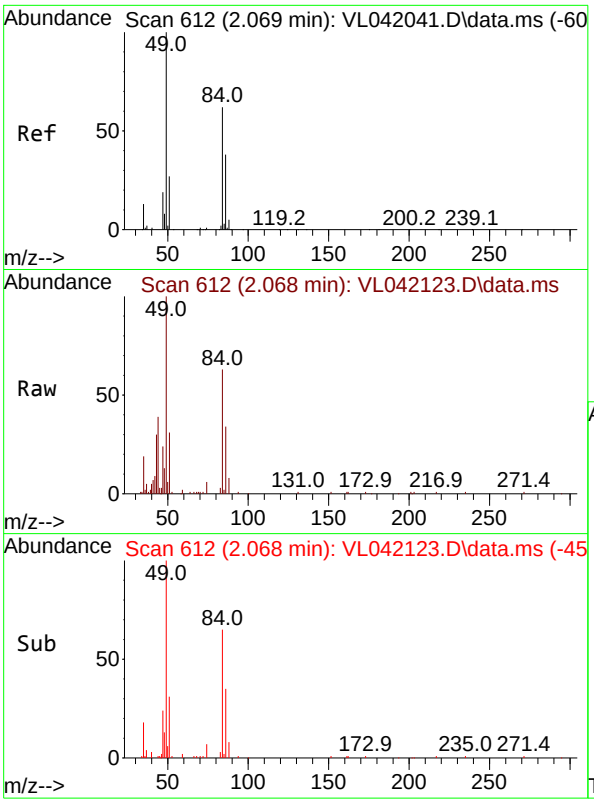


#19
Isopropyl Alcohol
Concen: 13.090 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 45 Resp: 110681

Ion	Ratio	Lower	Upper
45	100		
58	1.9	35.3	52.9#



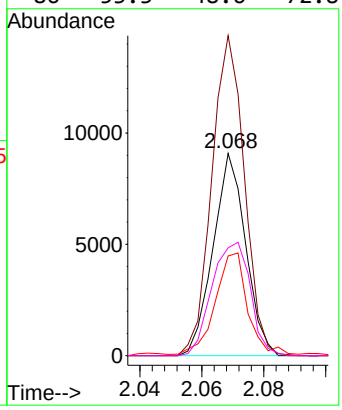


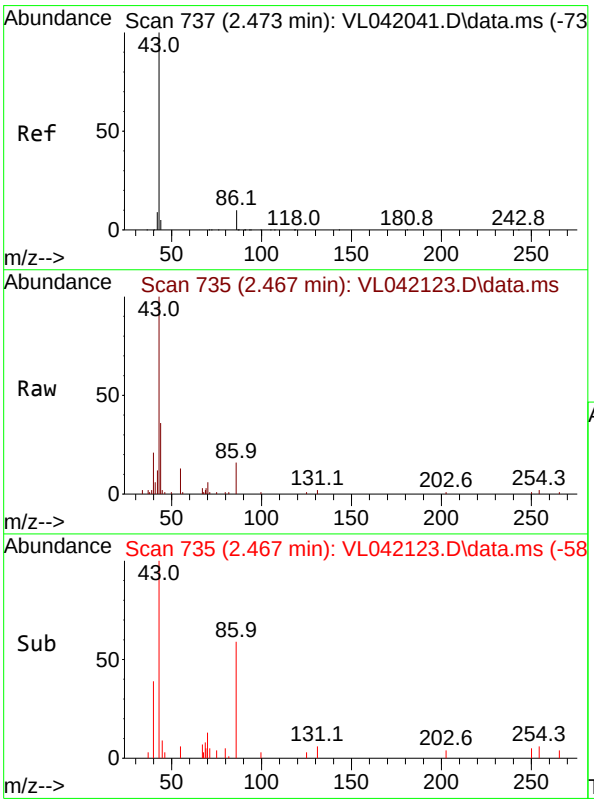
#20
Methylene Chloride
Concen: 1.191 ppbv
RT: 2.068 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 84 Resp: 6629

Ion	Ratio	Lower	Upper
84	100		
49	157.3	130.0	195.0
51	48.6	37.4	56.0
86	53.3	48.6	72.8

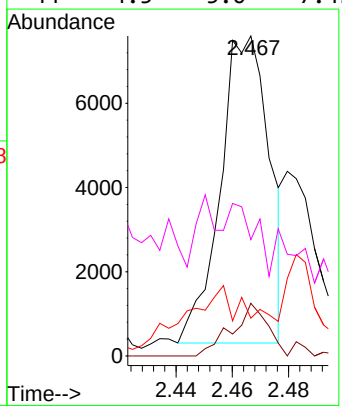


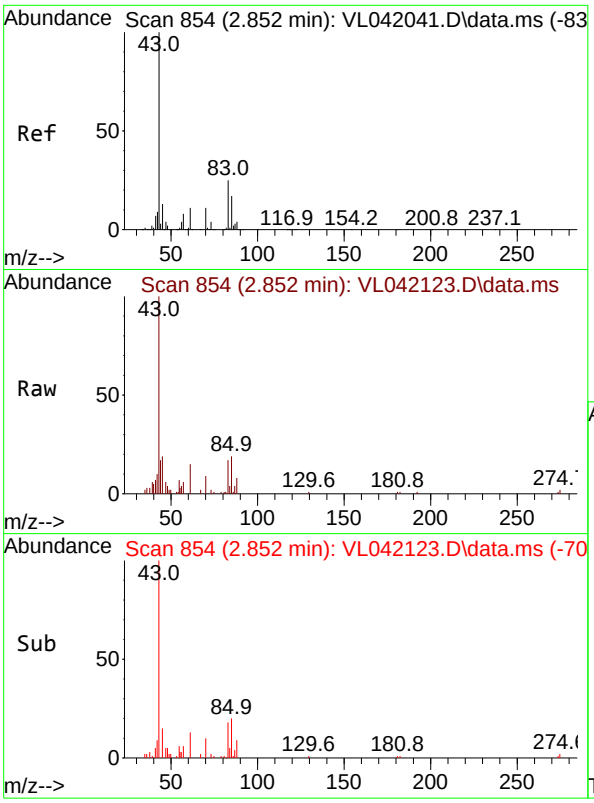


#23
Vinyl Acetate
Concen: 0.850 ppbv
RT: 2.467 min Scan# 735
Delta R.T. -0.007 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 43 Resp: 8799

Ion	Ratio	Lower	Upper
43	100		
86	17.1	7.0	10.4#
42	1.8	7.6	11.4#
44	4.5	5.0	7.4#



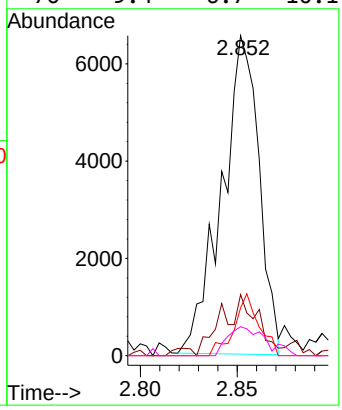


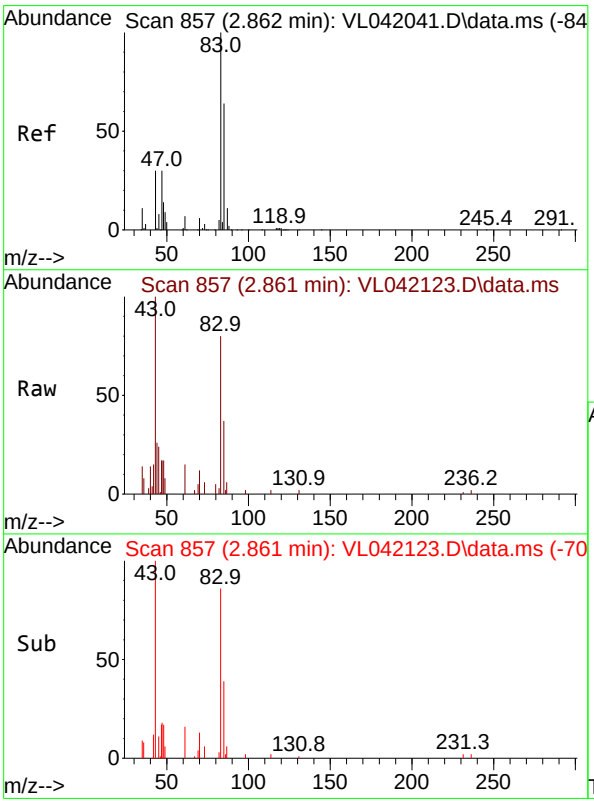
#25
Ethyl Acetate
Concen: 0.148 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 43 Resp: 8747

Ion	Ratio	Lower	Upper
43	100		
45	22.0	8.1	12.1#
61	12.9	7.2	10.8#
70	9.4	6.7	10.1

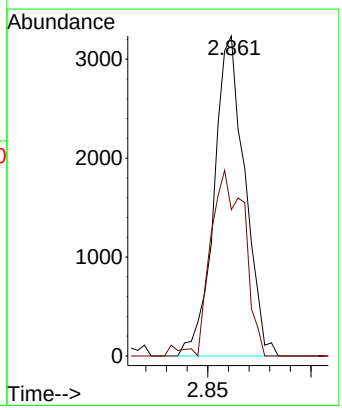


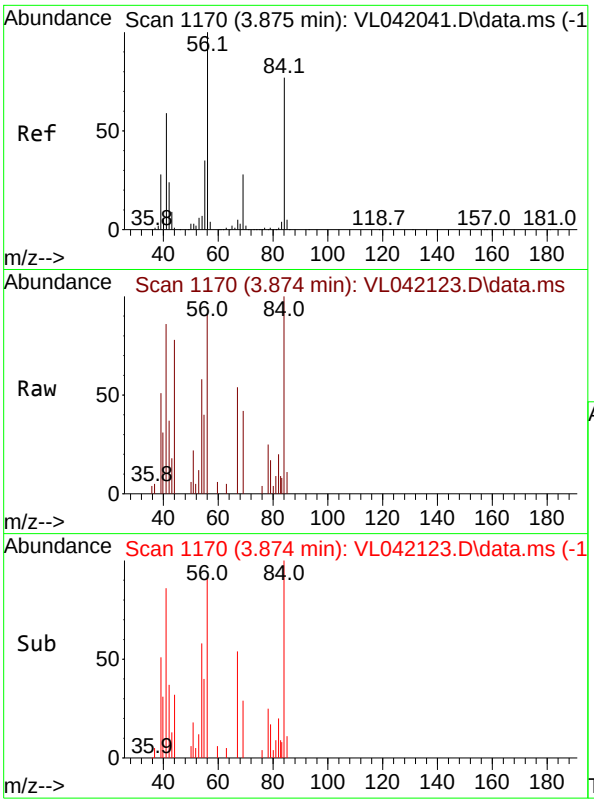


#29
Chloroform
Concen: 0.104 ppbv
RT: 2.861 min Scan# 857
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 83 Resp: 3349

Ion	Ratio	Lower	Upper
83	100		
85	45.7	51.2	76.8#



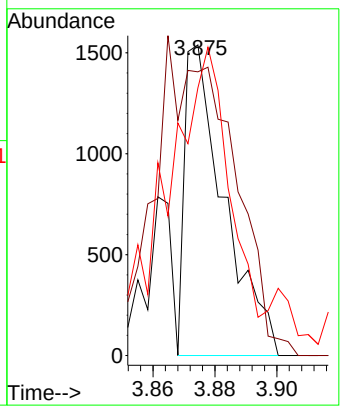


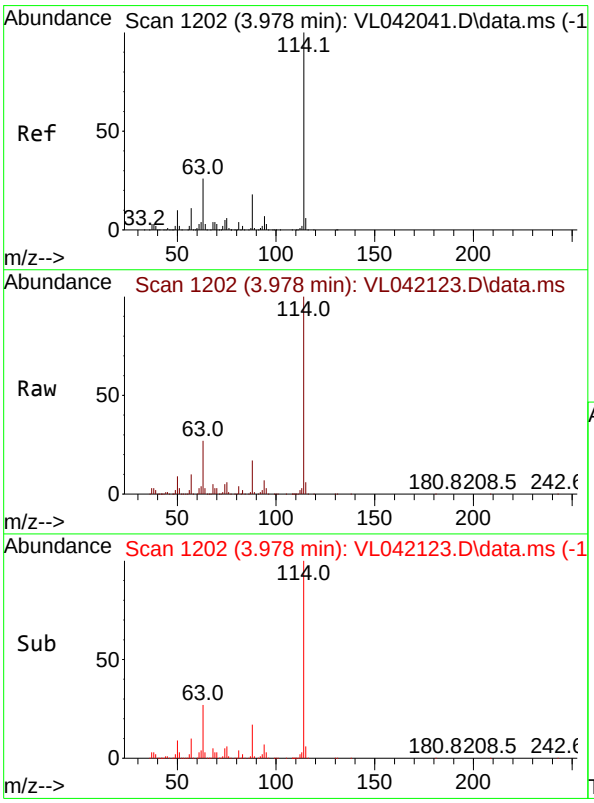
#30
Cyclohexane
Concen: 0.071 ppbv
RT: 3.874 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 84 Resp: 1368

Ion	Ratio	Lower	Upper
84	100		
56	0.0	101.5	152.3#
41	180.4	62.6	93.8#

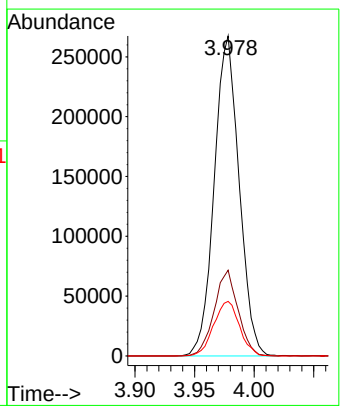


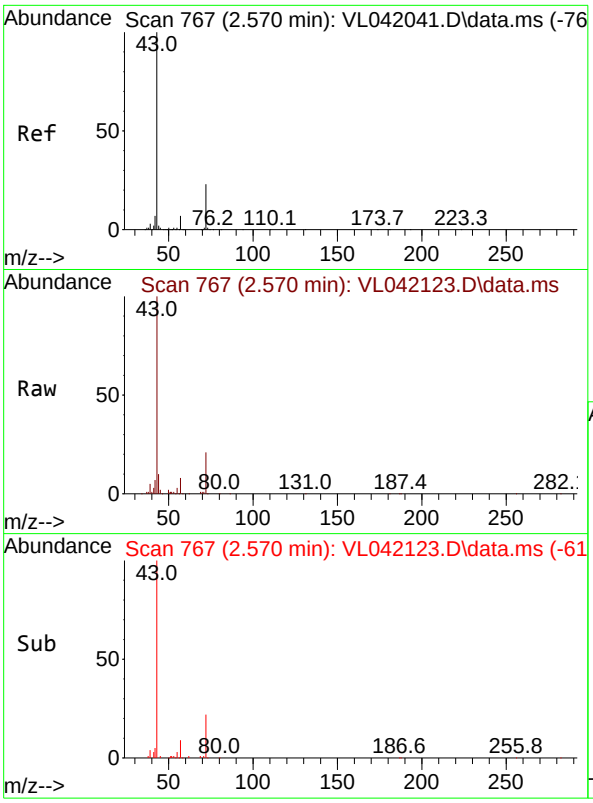


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion:114 Resp: 387215

Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.1	30.1
88	17.8	14.3	21.5



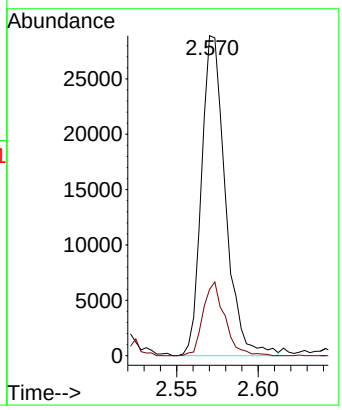


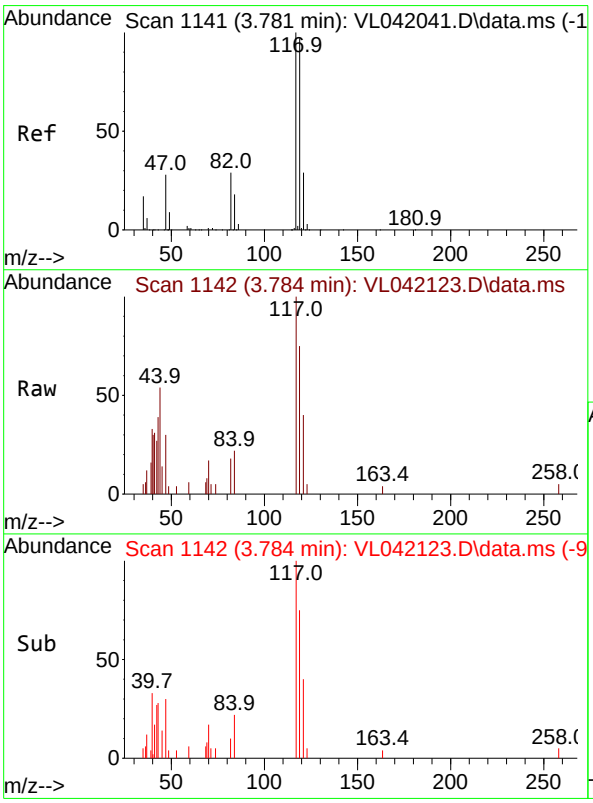
#34
2-Butanone
Concen: 0.977 ppbv
RT: 2.570 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 43 Resp: 29478

Ion	Ratio	Lower	Upper
43	100		
72	21.0	18.5	27.7

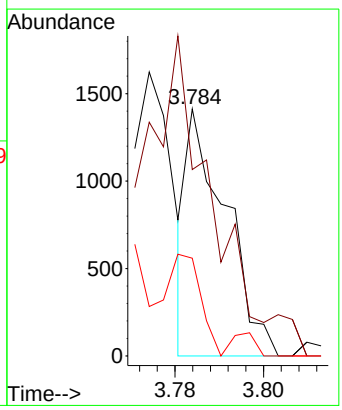


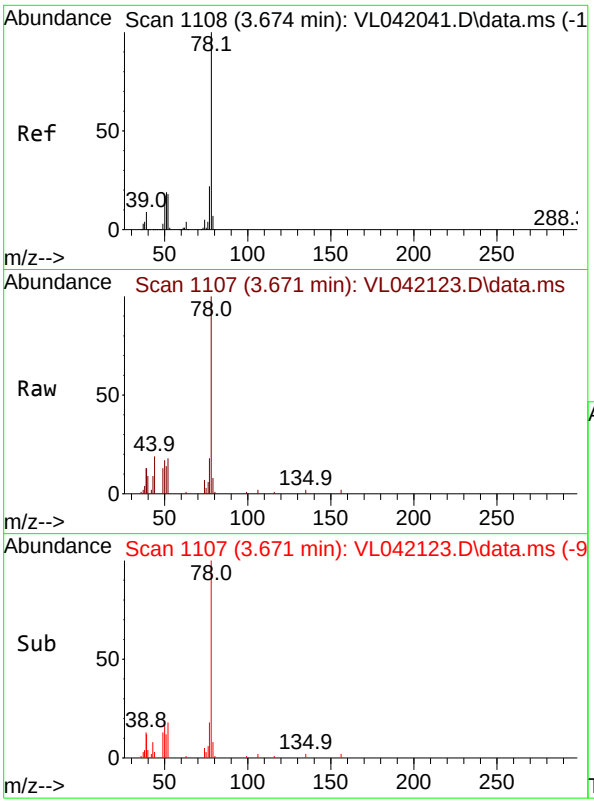


#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 3.784 min Scan# 1142
Delta R.T. 0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion:117 Resp: 873

Ion	Ratio	Lower	Upper
117	100		
119	58.7	77.8	116.8#
121	39.6	23.4	35.0#



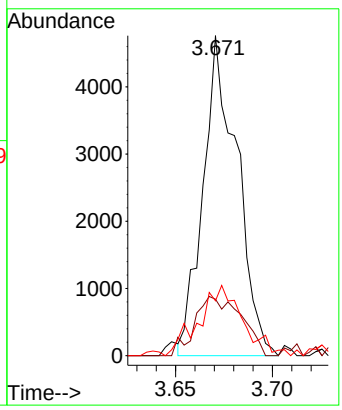


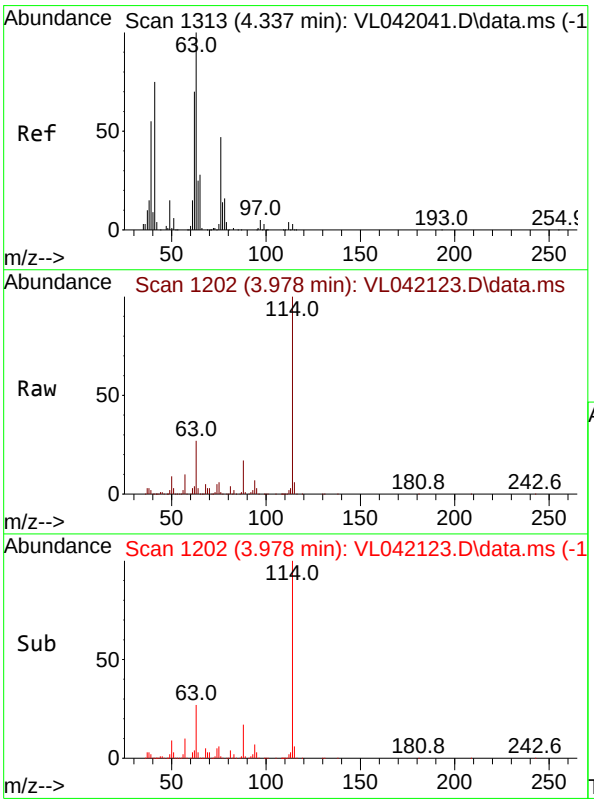
#36
Benzene
Concen: 0.144 ppbv
RT: 3.671 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 78 Resp: 5828

Ion	Ratio	Lower	Upper
78	100		
77	17.7	17.7	26.5#
50	15.5	13.9	20.9

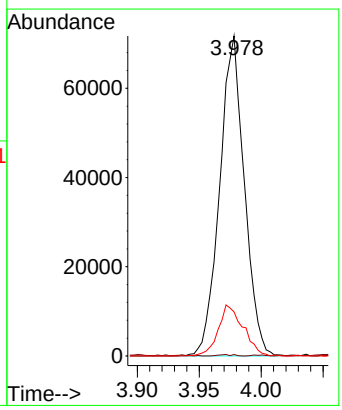


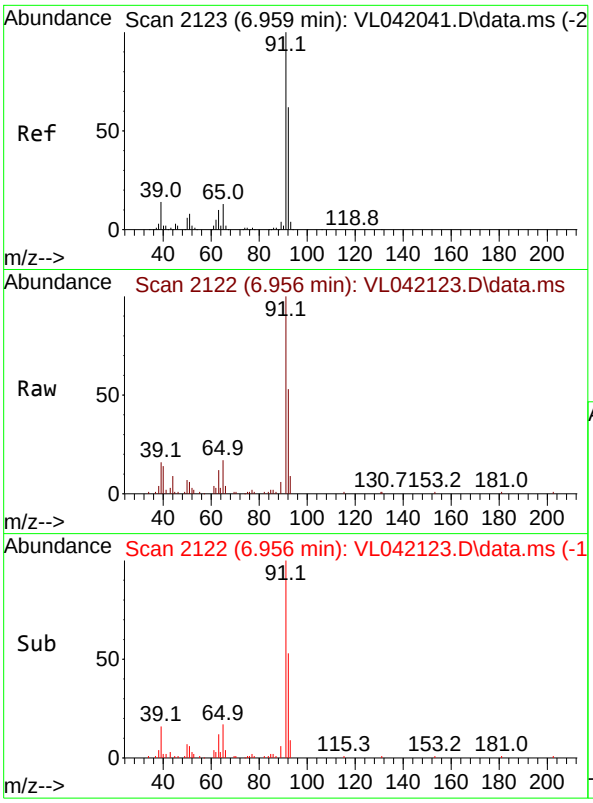


#39
1,2-Dichloropropane
Concen: 6.486 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.359 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 63 Resp: 99800

Ion	Ratio	Lower	Upper
63	100		
41	0.4	60.1	90.1#
62	13.8	55.8	83.8#



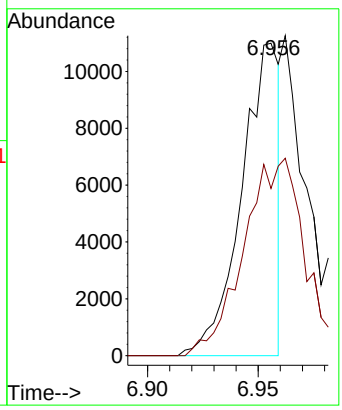


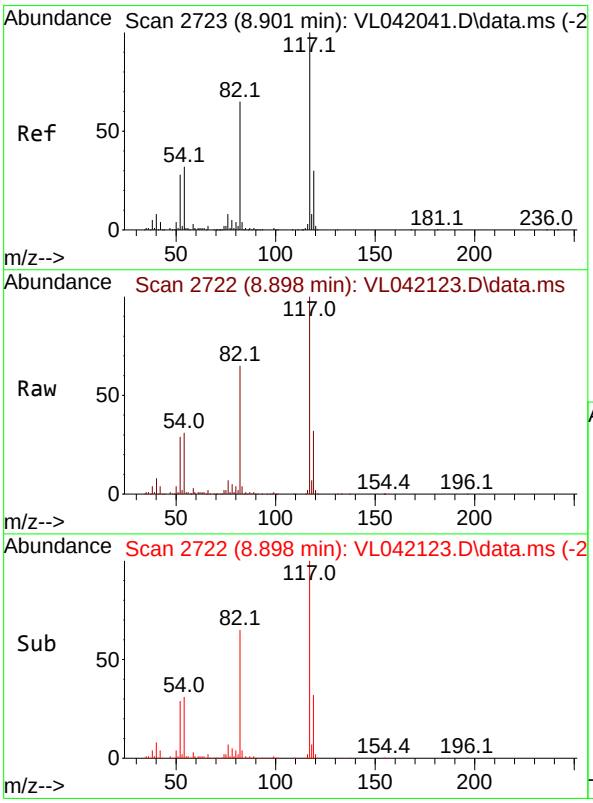
#53
Toluene
Concen: 0.287 ppbv
RT: 6.956 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 91 Resp: 12988

Ion	Ratio	Lower	Upper
91	100		
92	0.0	49.0	73.6#

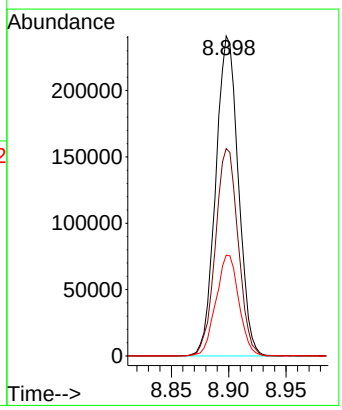


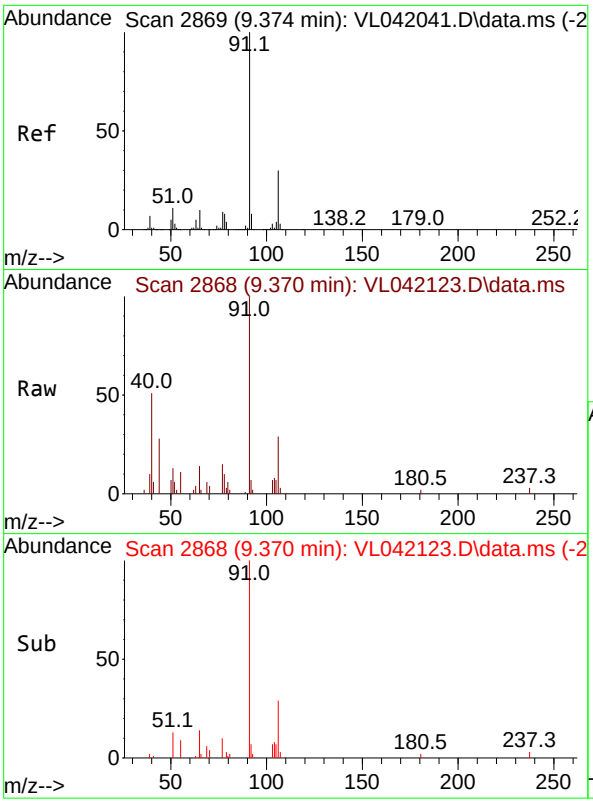


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion:117 Resp: 330250

Ion	Ratio	Lower	Upper
117	100		
82	65.5	55.0	82.6
119	32.1	25.9	38.9



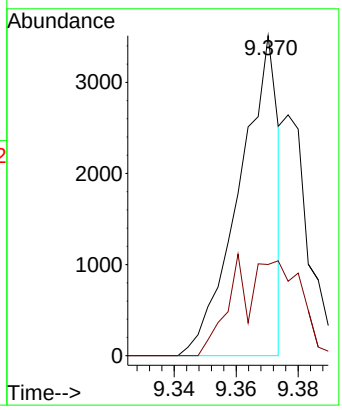


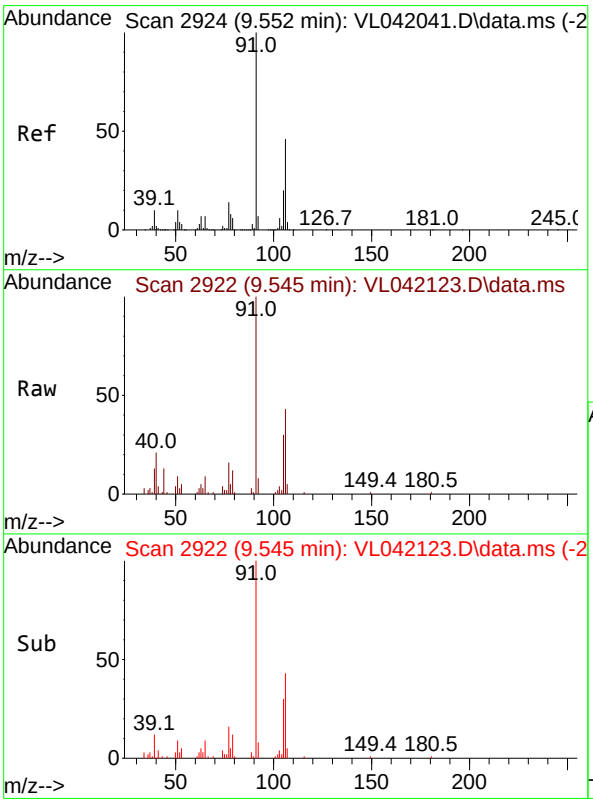
#58
Ethyl Benzene
Concen: 0.050 ppbv
RT: 9.370 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 91 Resp: 3070

Ion	Ratio	Lower	Upper
91	100		
106	28.5	24.2	36.2

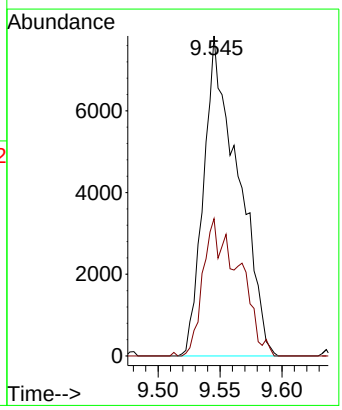


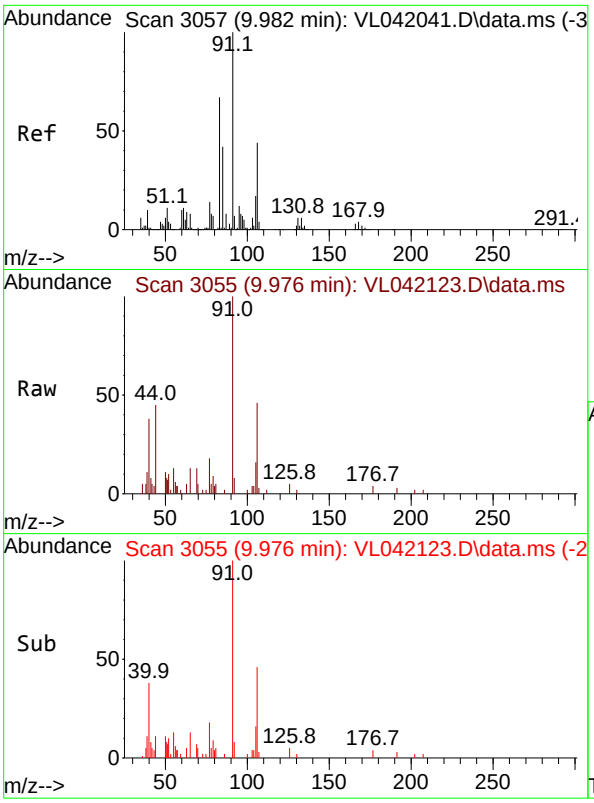


#59
m/p-Xylene
Concen: 0.312 ppbv
RT: 9.545 min Scan# 2922
Delta R.T. -0.007 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 91 Resp: 15092

Ion	Ratio	Lower	Upper
91	100		
106	45.1	0.0	0.0#



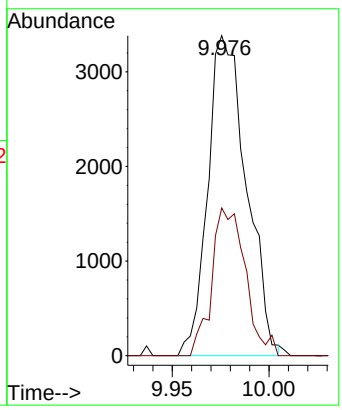


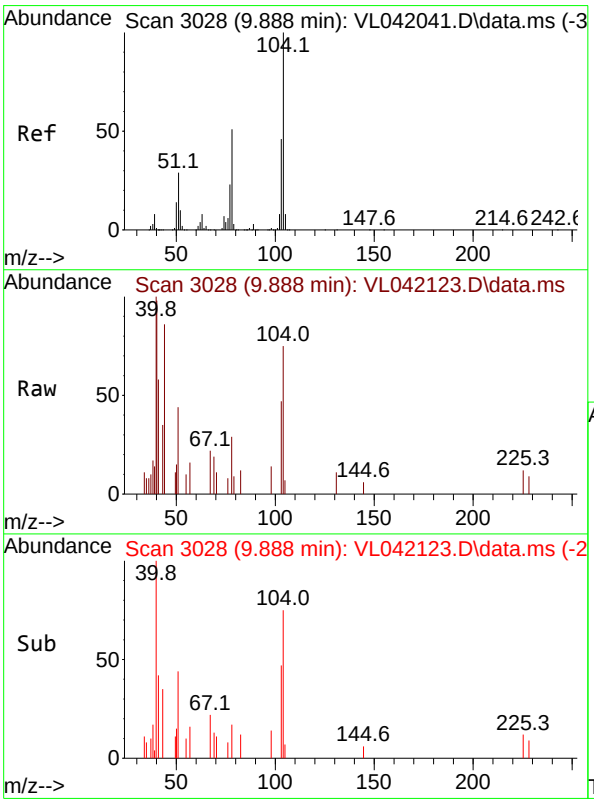
#60
o-Xylene
Concen: 0.097 ppbv
RT: 9.976 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 91 Resp: 4696

Ion	Ratio	Lower	Upper
91	100		
106	40.0	22.3	66.8

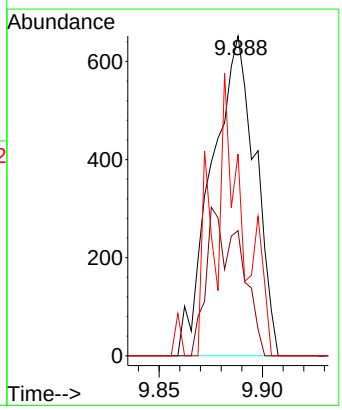


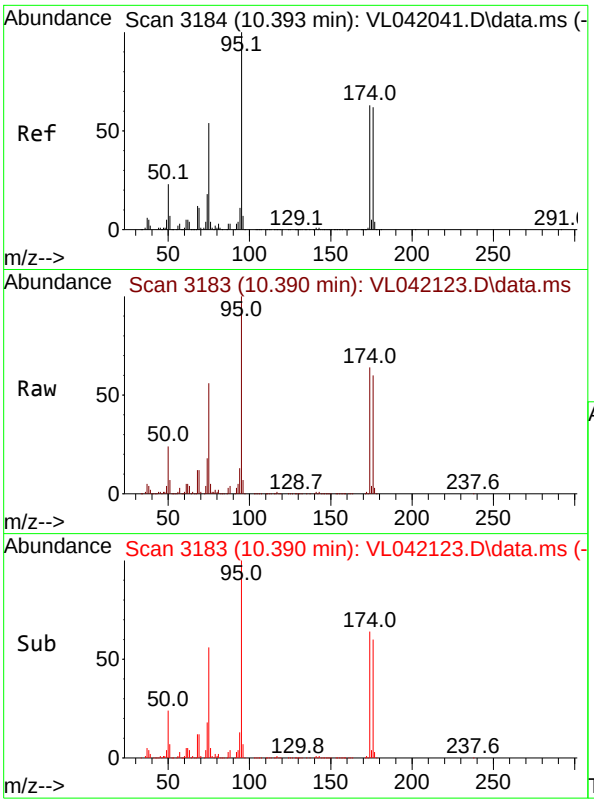


#61
Styrene
Concen: 0.042 ppbv
RT: 9.888 min Scan# 3028
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion:104 Resp: 953

Ion	Ratio	Lower	Upper
104	100		
78	36.5	41.0	61.4#
103	59.4	37.0	55.6#



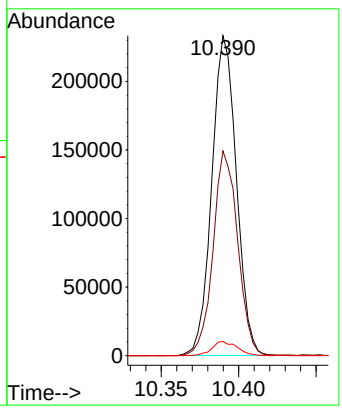


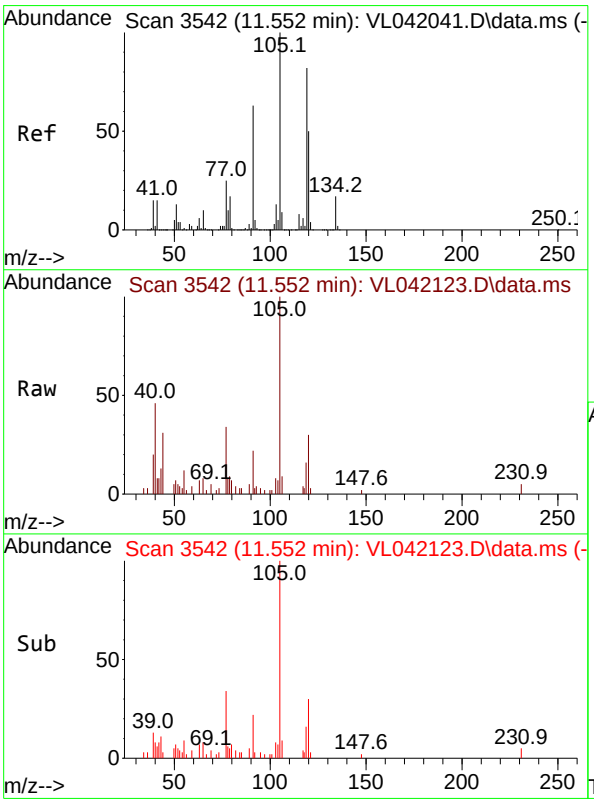
#68
1-Bromo-4-Fluorobenzene
Concen: 10.121 ppbv
RT: 10.390 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Instrument :
MSVOA_L
ClientSampleId :
2

Tgt Ion: 95 Resp: 257155

Ion	Ratio	Lower	Upper
95	100		
174	64.4	51.8	77.6
175	4.6	3.9	5.9

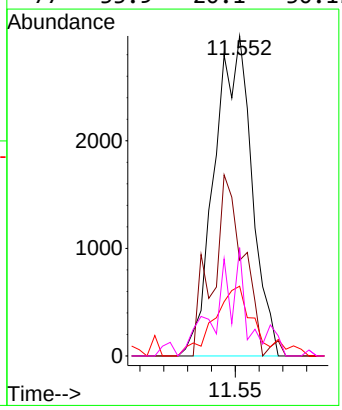




#74
1,2,4-Trimethylbenzene
Concen: 0.056 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion:105 Resp: 3231

Ion	Ratio	Lower	Upper
105	100		
120	29.9	40.2	60.2#
91	21.8	51.4	77.2#
77	33.9	20.1	30.1#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042125.D
Acq On : 10 Mar 2025 15:10
Operator : SY/MD
Sample : Q1532-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
3

Quant Time: Mar 11 01:25:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

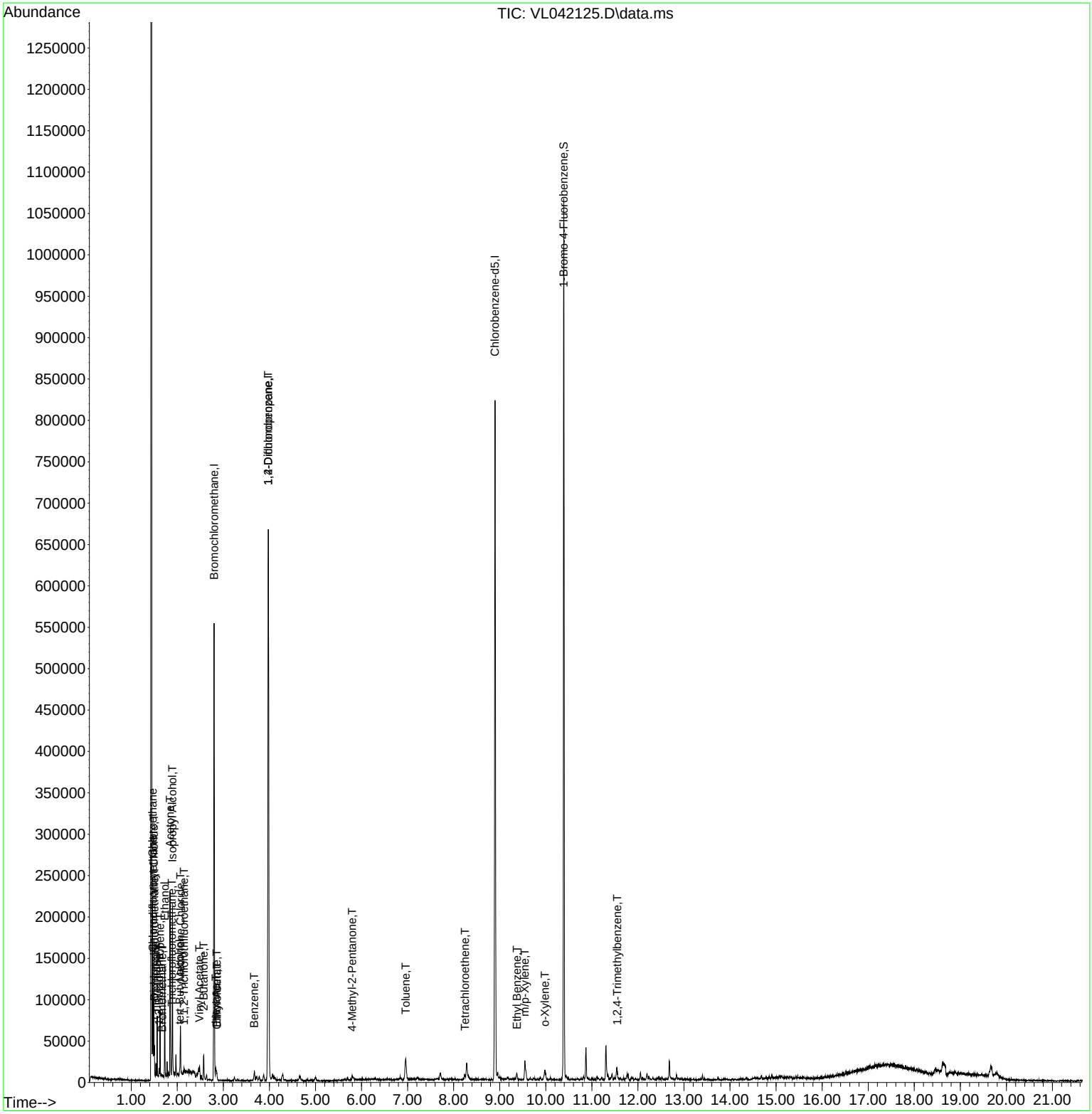
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	165184	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.975	114	383076	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	325600	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	257724	10.288	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8811	0.513	ppbv		98
3) Chlorodifluoromethane	1.470	51	19182	0.799	ppbv	#	74
4) Chloromethane	1.538	50	3667	0.577	ppbv		90
5) Vinyl Chloride	1.492	62	214	0.036	ppbv	#	43
6) Bromomethane	1.674	94	98	0.034	ppbv	#	16
7) Chloroethane	1.463	64	23024	9.431	ppbv	#	39
9) Propene	1.625	41	7377	0.754	ppbv		86
11) Trichlorofluoromethane	1.884	101	4245	0.247	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.143	101	1225	0.089	ppbv		99
13) Ethanol	1.725	45	49066	79.029	ppbv		91
15) Acetone	1.842	43	95309	6.534	ppbv		99
16) 1,3-Butadiene	1.602	39	1740	0.256	ppbv	#	38
17) tert-Butyl alcohol	2.052	59	1951	0.107	ppbv	#	86
19) Isopropyl Alcohol	1.894	45	80421	9.598	ppbv	#	35
20) Methylene Chloride	2.068	84	8194	1.485	ppbv		90
23) Vinyl Acetate	2.479	43	3197	0.312	ppbv	#	61
25) Ethyl Acetate	2.855	43	5486	0.094	ppbv	#	85
26) Hexane	2.835	57	2321	0.098	ppbv	#	1
29) Chloroform	2.861	83	958	0.030	ppbv	#	83
34) 2-Butanone	2.573	43	20566	0.689	ppbv		93
36) Benzene	3.671	78	5810	0.145	ppbv	#	82
39) 1,2-Dichloropropane	3.975	63	97746	6.422	ppbv	#	23
50) 4-Methyl-2-Pentanone	5.794	43	2599	0.067	ppbv		89
52) Tetrachloroethene	8.244	164	663	0.048	ppbv	#	34
53) Toluene	6.959	91	16945	0.378	ppbv		93
58) Ethyl Benzene	9.370	91	4251	0.071	ppbv	#	68
59) m/p-Xylene	9.545	91	7952	0.167	ppbv	#	100
60) o-Xylene	9.979	91	3534	0.074	ppbv		94
74) 1,2,4-Trimethylbenzene	11.548	105	3079	0.054	ppbv	#	63

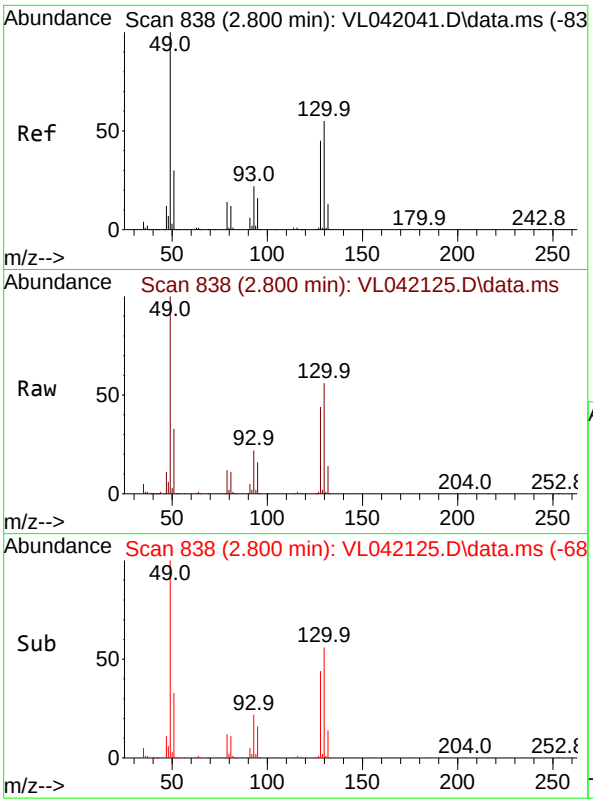
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042125.D
Acq On : 10 Mar 2025 15:10
Operator : SY/MD
Sample : Q1532-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
3

Quant Time: Mar 11 01:25:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



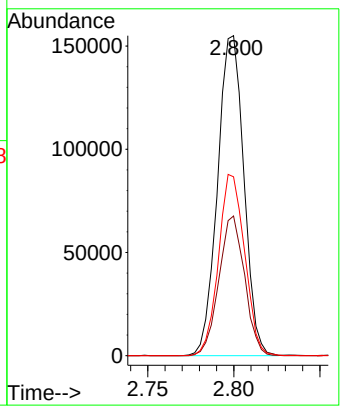


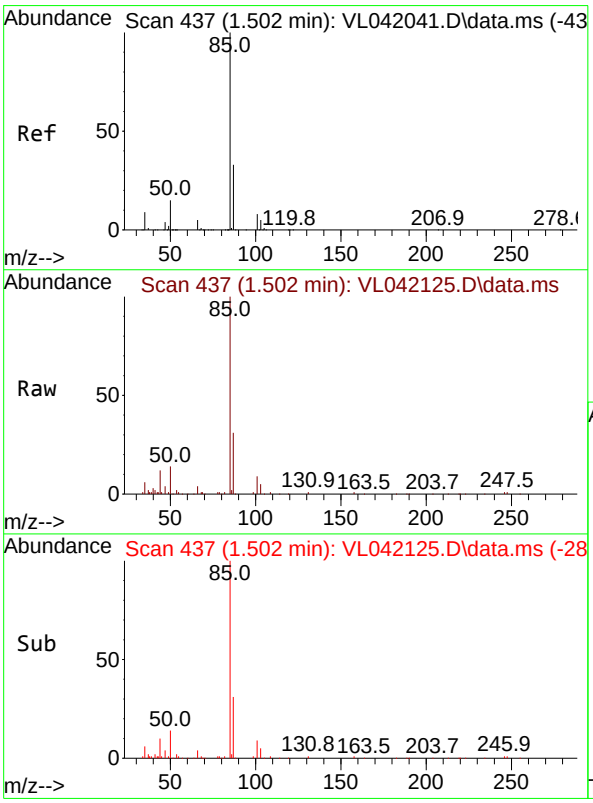
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 49 Resp: 165184

Ion	Ratio	Lower	Upper
49	100		
128	42.5	21.6	64.8
130	56.3	27.8	83.4

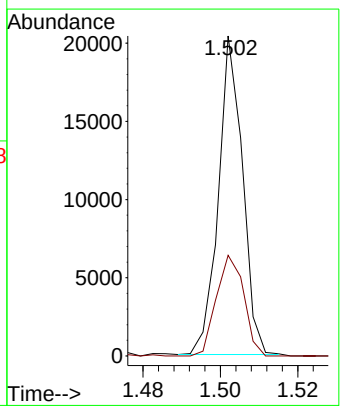


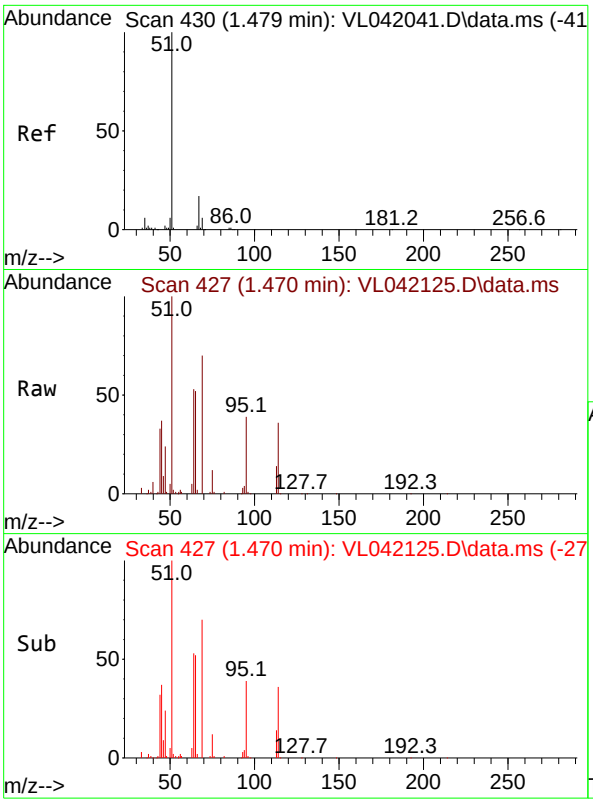


#2
Dichlorodifluoromethane
Concen: 0.513 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 85 Resp: 8811

Ion	Ratio	Lower	Upper
85	100		
87	31.6	26.4	39.6



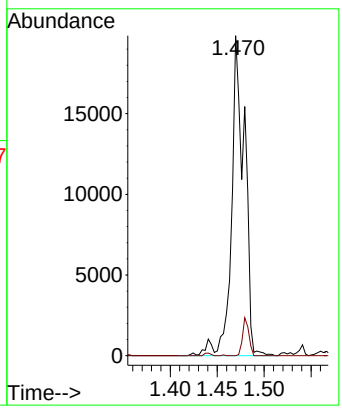


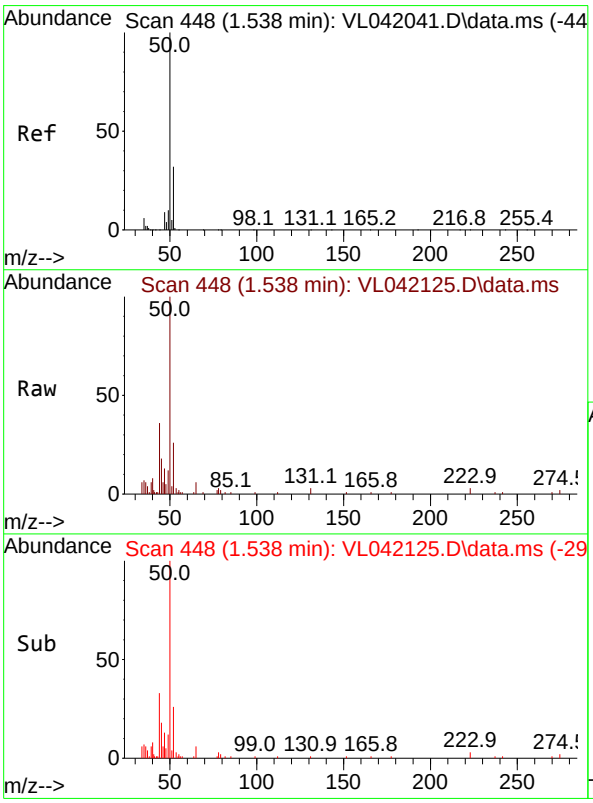
#3
Chlorodifluoromethane
Concen: 0.799 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 51 Resp: 19182

Ion	Ratio	Lower	Upper
51	100		
67	5.7	13.7	20.5#

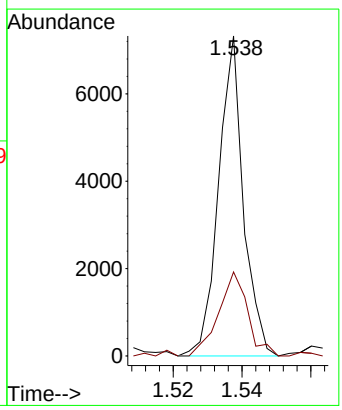


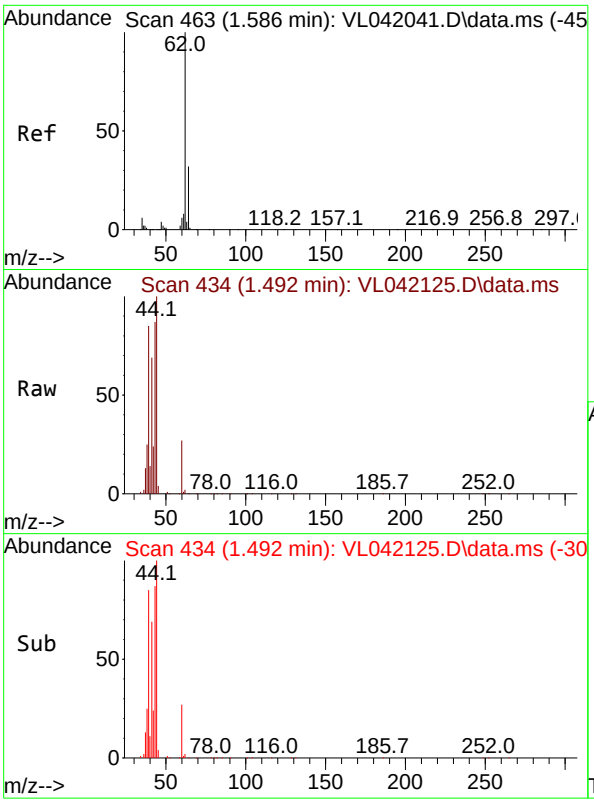


#4
Chloromethane
Concen: 0.577 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 50 Resp: 3667

Ion	Ratio	Lower	Upper
50	100		
52	26.2	25.4	38.0



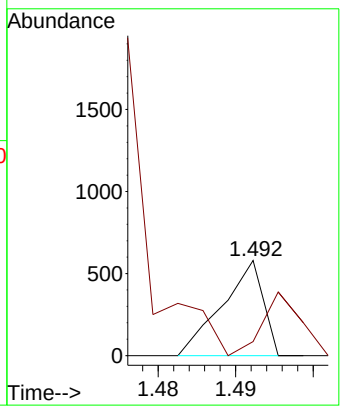


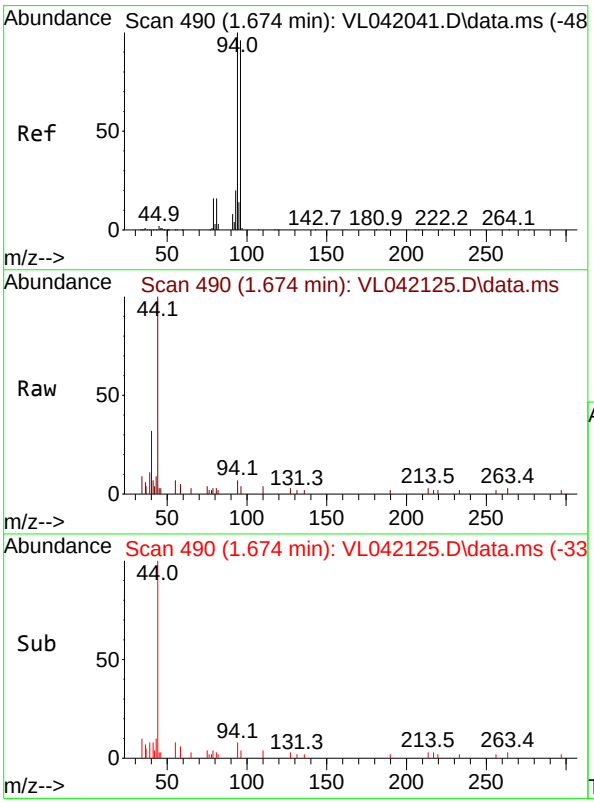
#5
Vinyl Chloride
Concen: 0.036 ppbv
RT: 1.492 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 62 Resp: 214

Ion	Ratio	Lower	Upper
62	100		
64	0.0	25.3	37.9#

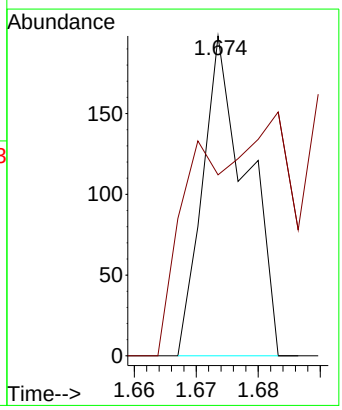


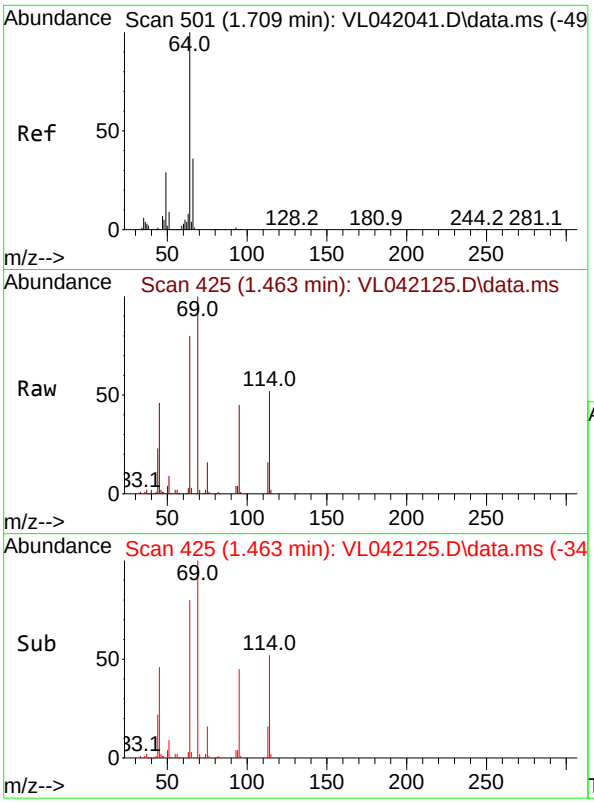


#6
Bromomethane
Concen: 0.034 ppbv
RT: 1.674 min Scan# 490
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 94 Resp: 98

Ion	Ratio	Lower	Upper
94	100		
96	13.6	76.5	114.7#



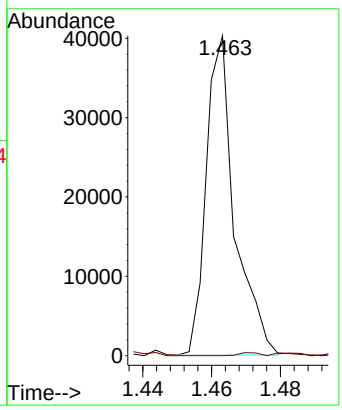


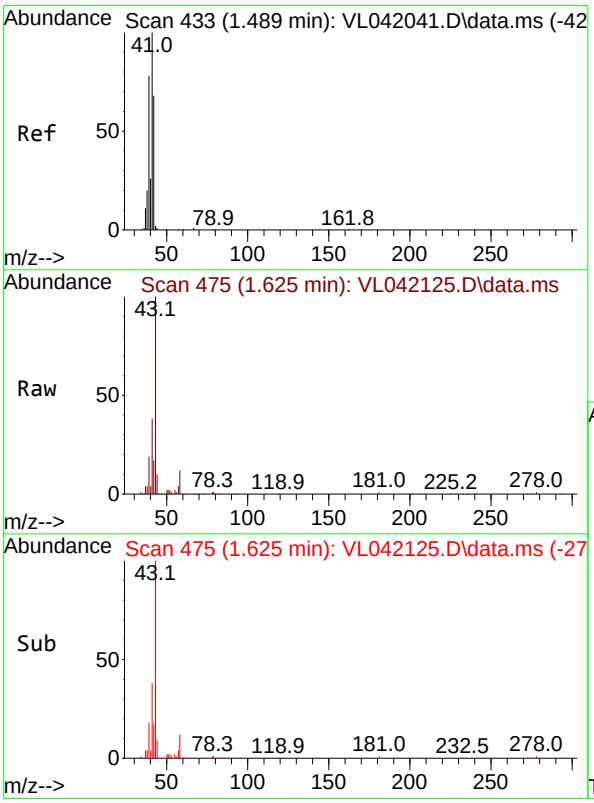
#7
Chloroethane
Concen: 9.431 ppbv
RT: 1.463 min Scan# 4
Delta R.T. -0.246 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 64 Resp: 23024

Ion	Ratio	Lower	Upper
64	100		
66	0.0	28.4	42.6#

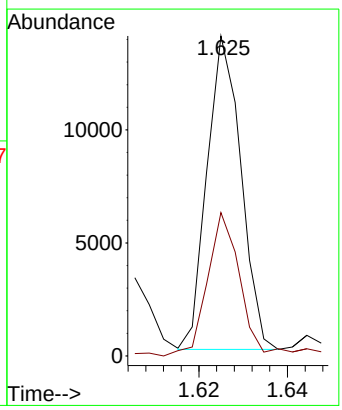


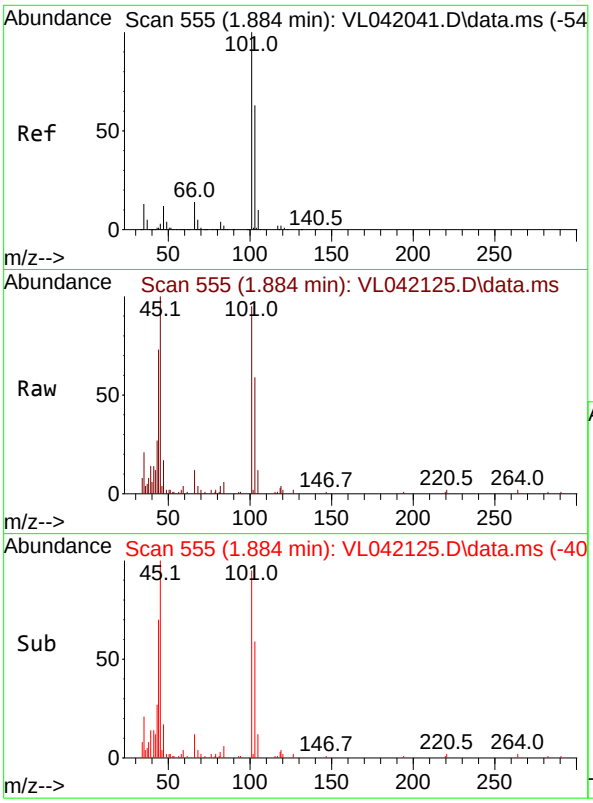


#9
Propene
Concen: 0.754 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.136 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 41 Resp: 7377

Ion	Ratio	Lower	Upper
41	100		
42	58.0	55.8	83.6



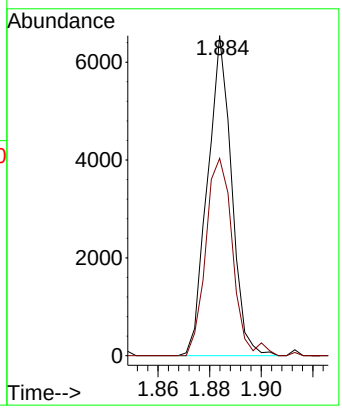


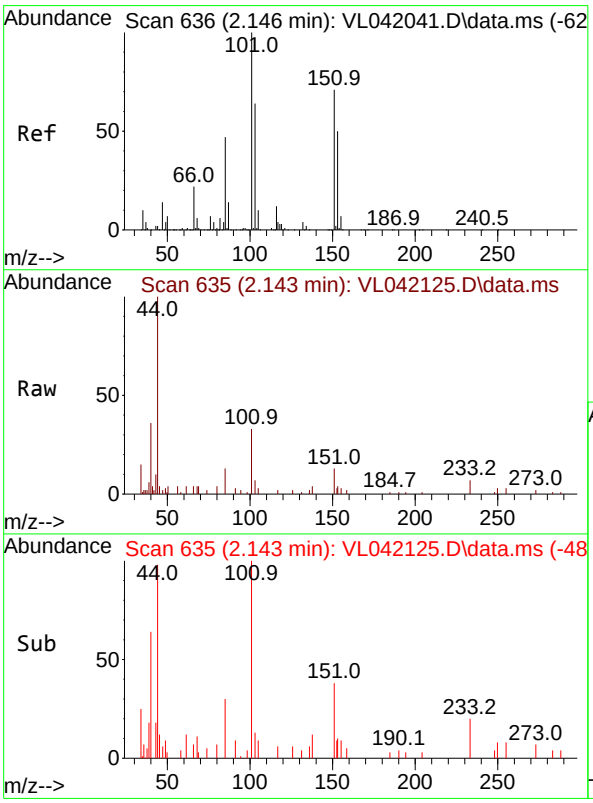
#11
Trichlorofluoromethane
Concen: 0.247 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion:101 Resp: 4245

Ion	Ratio	Lower	Upper
101	100		
103	61.6	50.6	75.8

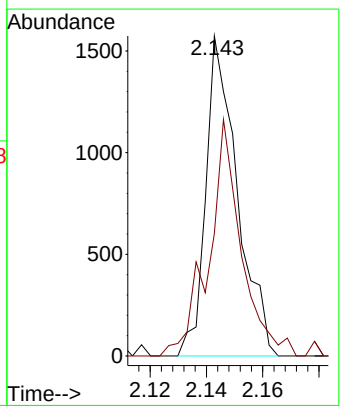


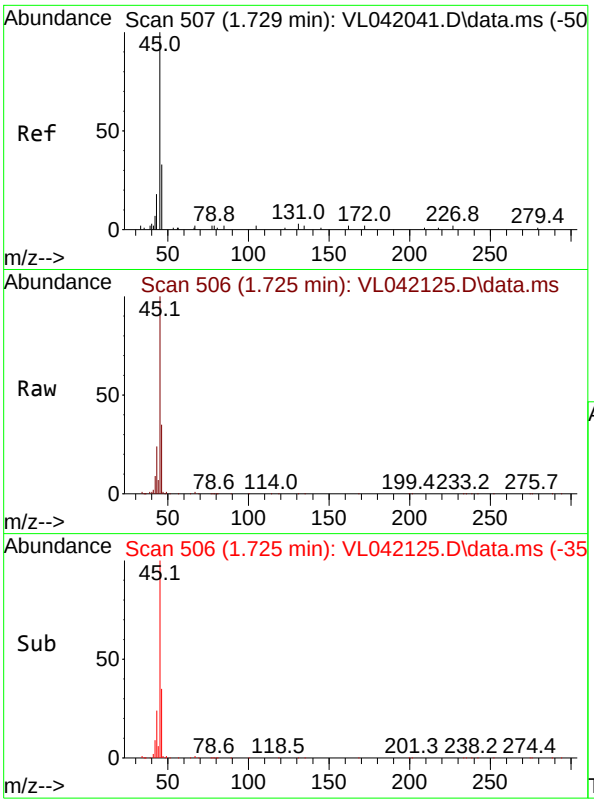


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.089 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion:101 Resp: 1225

Ion	Ratio	Lower	Upper
101	100		
151	77.4	62.6	94.0



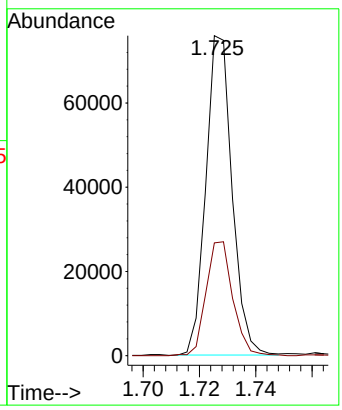


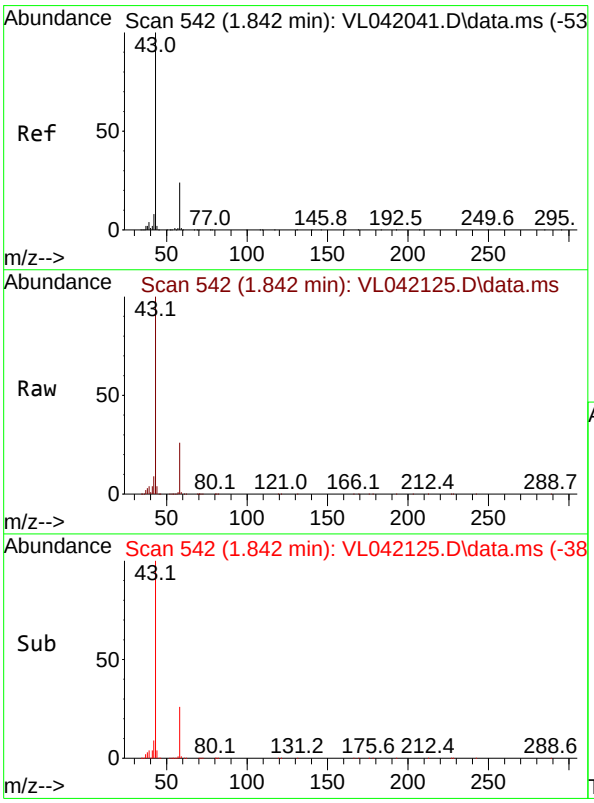
#13
Ethanol
Concen: 79.029 ppbv
RT: 1.725 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 45 Resp: 49066

Ion	Ratio	Lower	Upper
45	100		
46	36.6	17.1	68.3

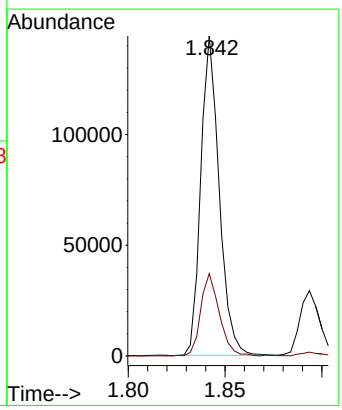


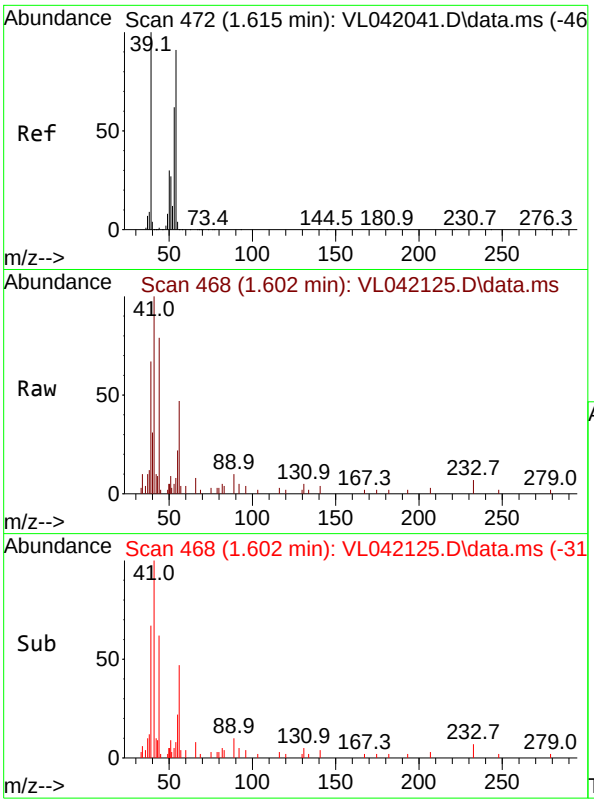


#15
Acetone
Concen: 6.534 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 43 Resp: 95309

Ion	Ratio	Lower	Upper
43	100		
58	26.2	20.7	31.1



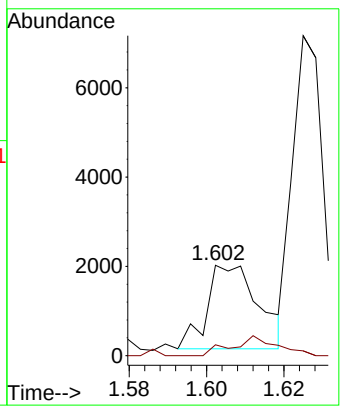


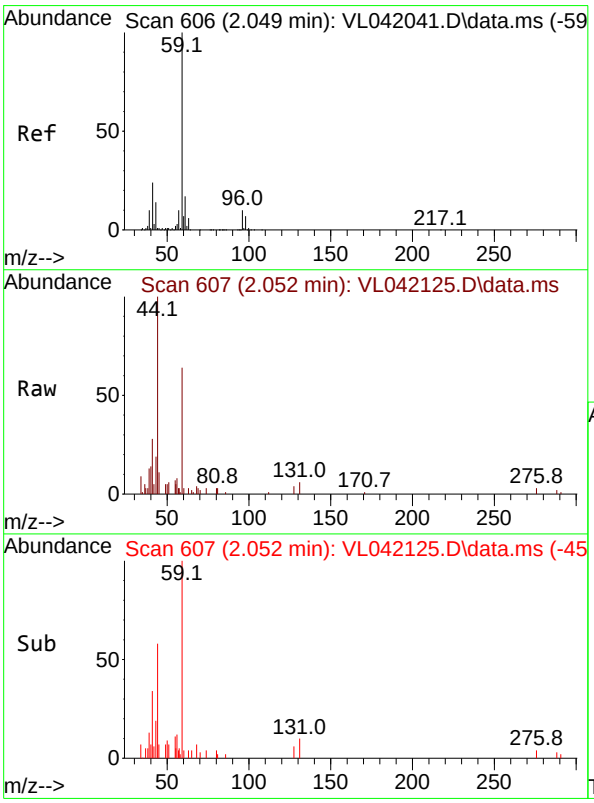
#16
1,3-Butadiene
Concen: 0.256 ppbv
RT: 1.602 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 39 Resp: 1740

Ion	Ratio	Lower	Upper
39	100		
54	21.8	59.6	89.4#

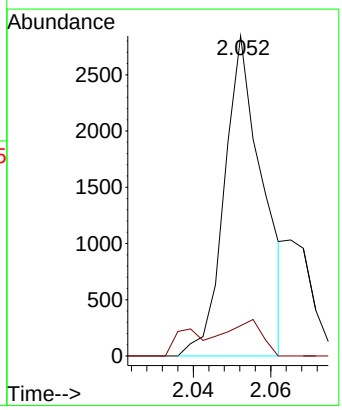


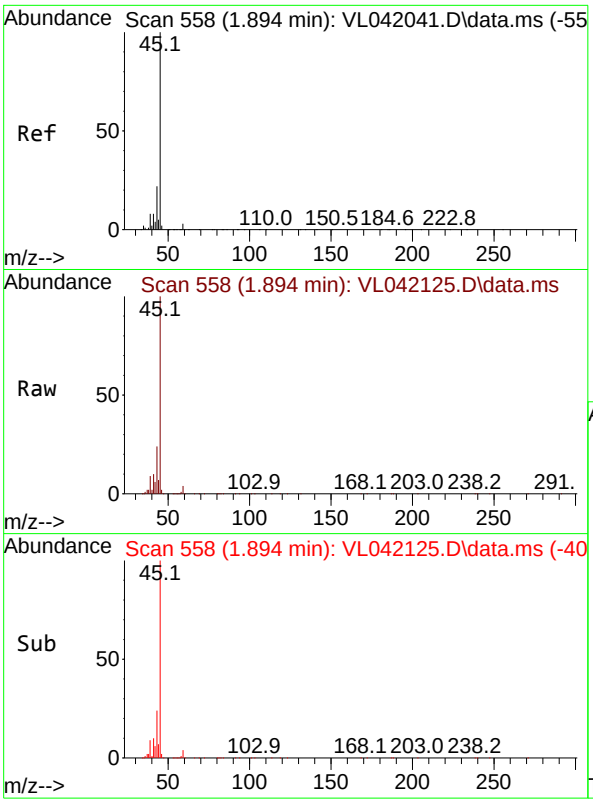


#17
tert-Butyl alcohol
Concen: 0.107 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 59 Resp: 1951

Ion	Ratio	Lower	Upper
59	100		
57	17.2	9.3	13.9#



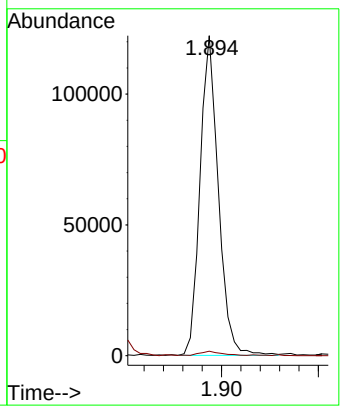


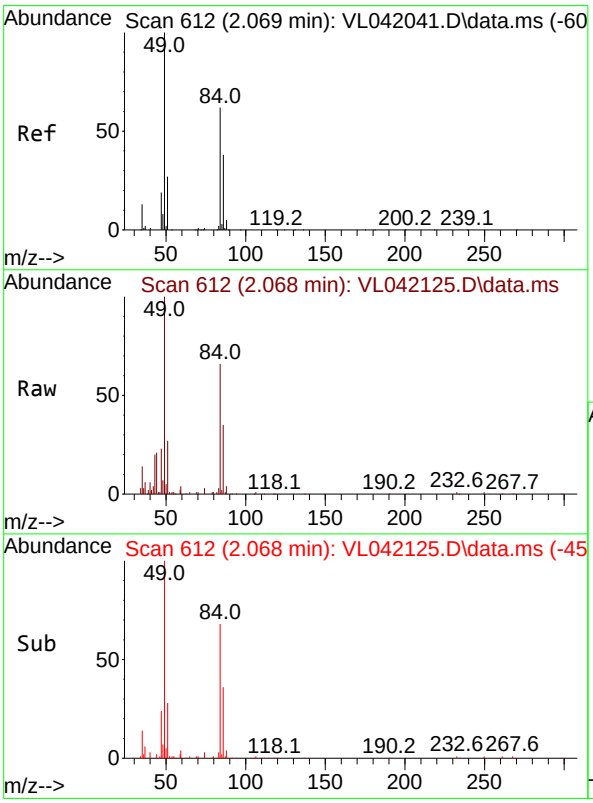
#19
Isopropyl Alcohol
Concen: 9.598 ppbv
RT: 1.894 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 45 Resp: 80421

Ion	Ratio	Lower	Upper
45	100		
58	2.0	35.3	52.9#

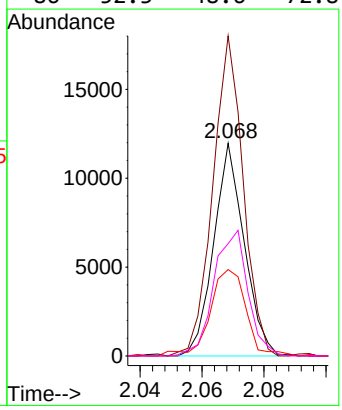


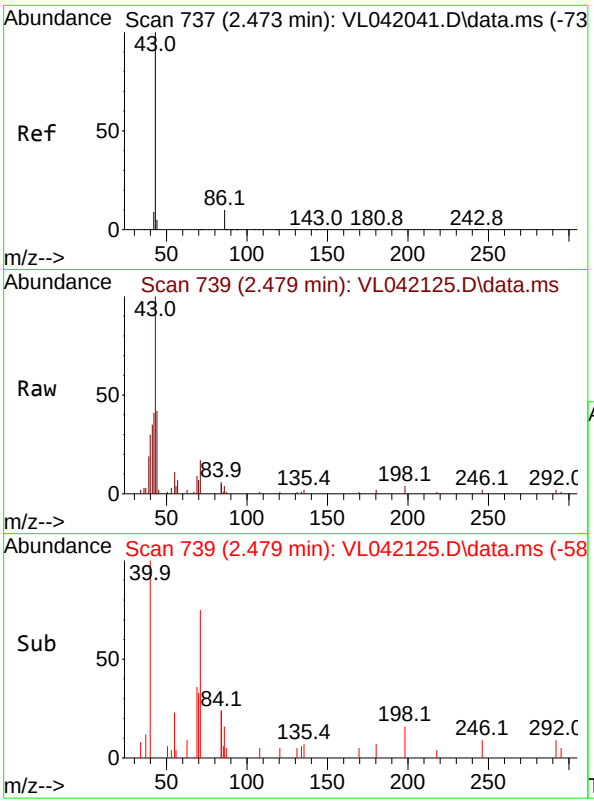


#20
Methylene Chloride
Concen: 1.485 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 84 Resp: 8194

Ion	Ratio	Lower	Upper
84	100		
49	150.4	130.0	195.0
51	38.6	37.4	56.0
86	52.3	48.6	72.8



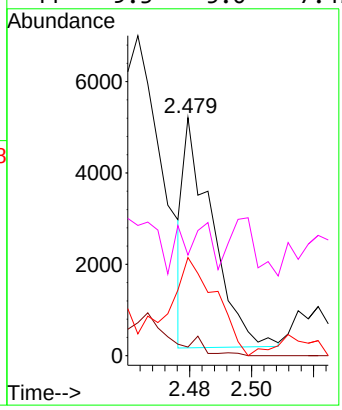


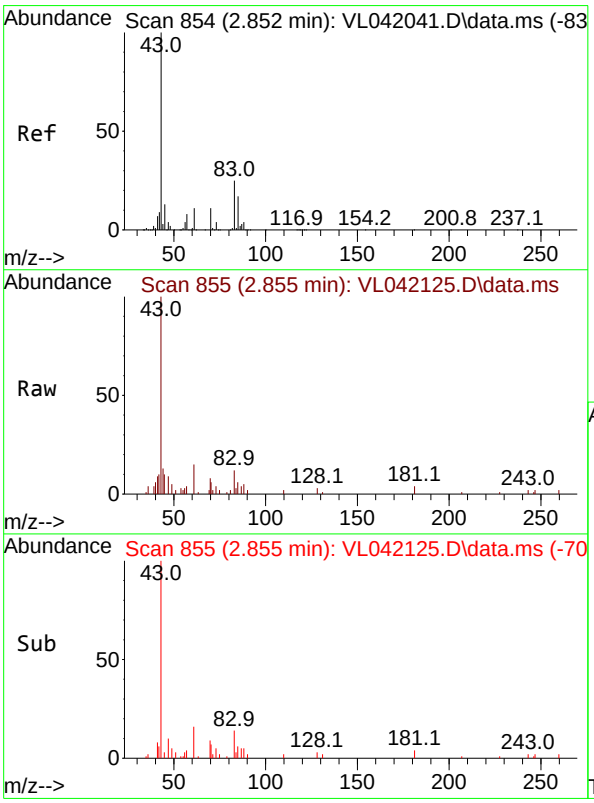
#23
Vinyl Acetate
Concen: 0.312 ppbv
RT: 2.479 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 43 Resp: 3197

Ion	Ratio	Lower	Upper
43	100		
86	3.8	7.0	10.4#
42	39.2	7.6	11.4#
44	9.3	5.0	7.4#

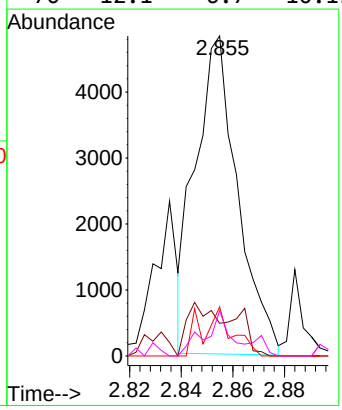


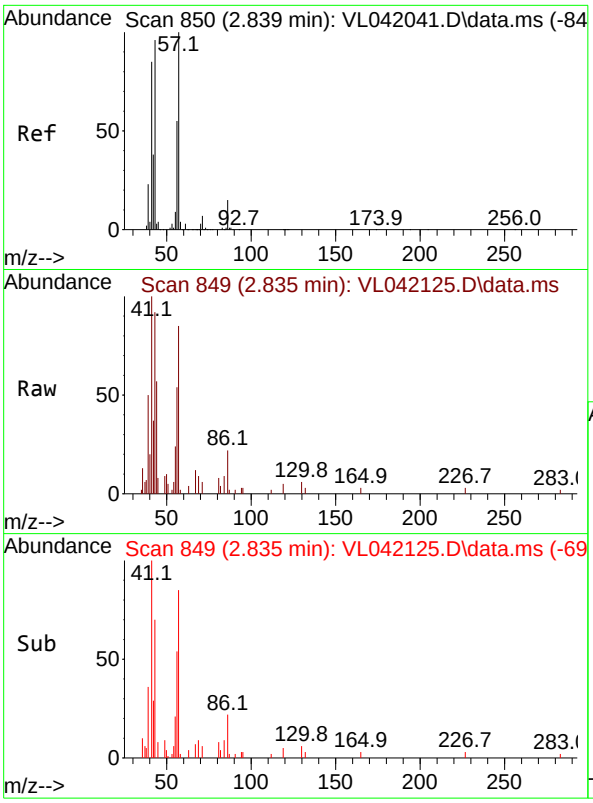


#25
Ethyl Acetate
Concen: 0.094 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 43 Resp: 5486

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	11.1	7.2	10.8#
70	12.1	6.7	10.1#



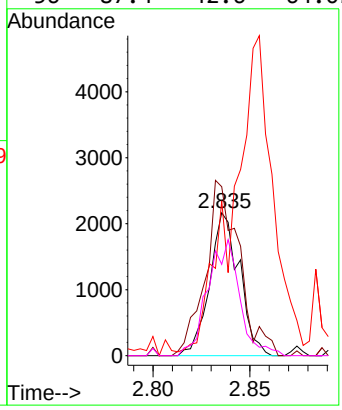


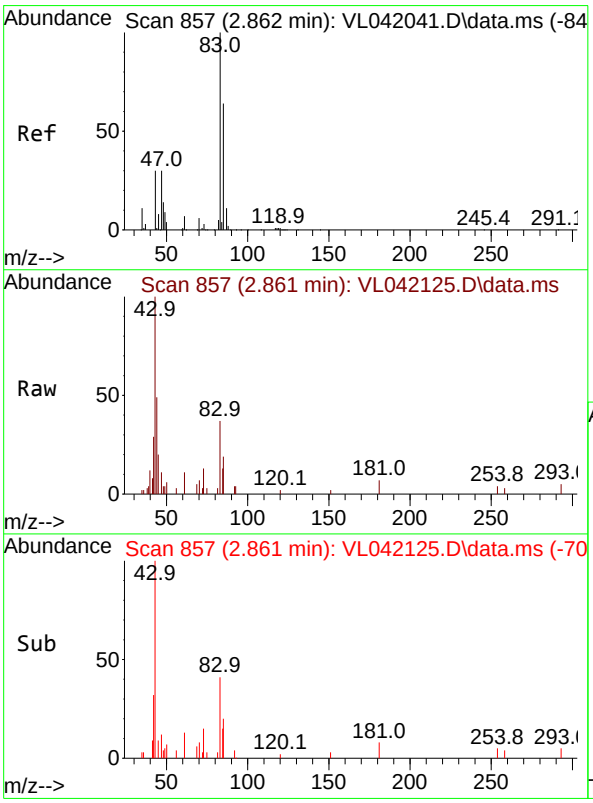
#26
Hexane
Concen: 0.098 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 57 Resp: 2321

Ion	Ratio	Lower	Upper
57	100		
41	139.7	70.6	106.0#
43	0.0	199.4	299.0#
56	87.4	42.6	64.0#

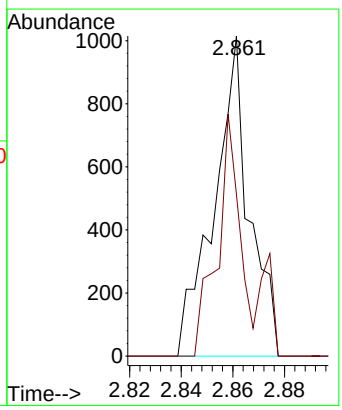


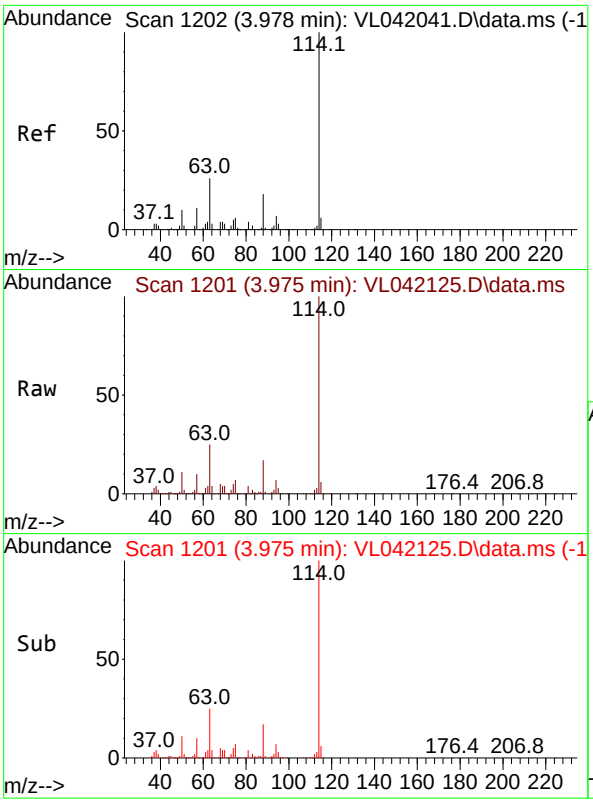


#29
Chloroform
Concen: 0.030 ppbv
RT: 2.861 min Scan# 857
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 83 Resp: 958

Ion	Ratio	Lower	Upper
83	100		
85	50.5	51.2	76.8#



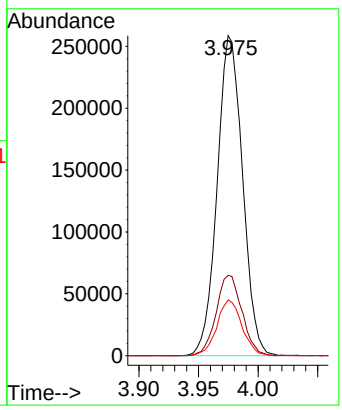


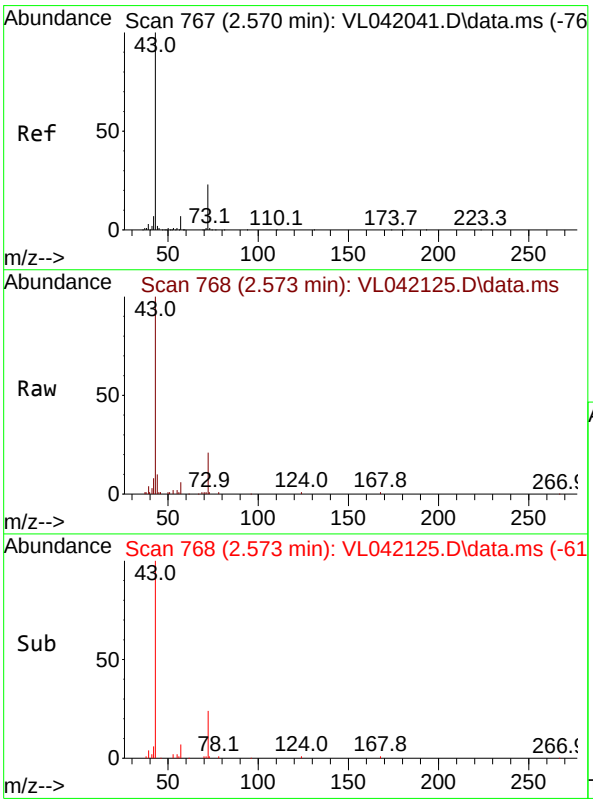
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion:114 Resp: 383076

Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.1	30.1
88	17.2	14.3	21.5

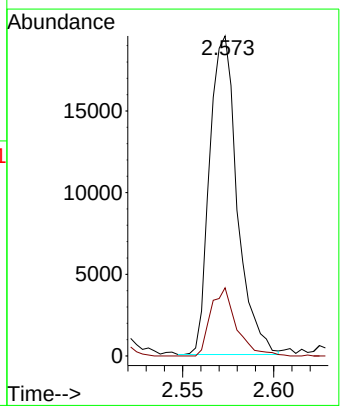


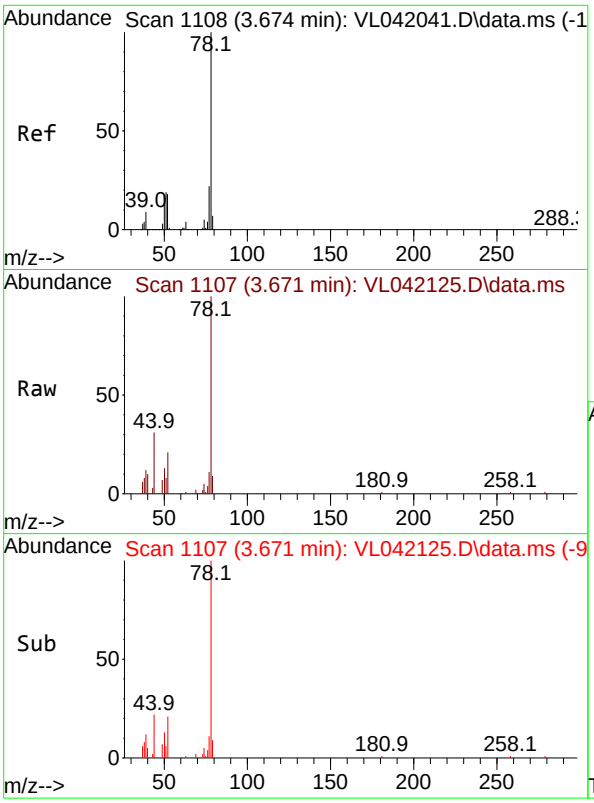


#34
2-Butanone
Concen: 0.689 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 43 Resp: 20566

Ion	Ratio	Lower	Upper
43	100		
72	19.9	18.5	27.7



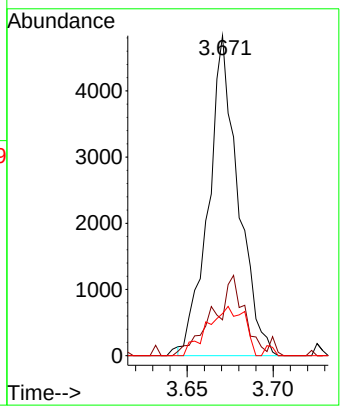


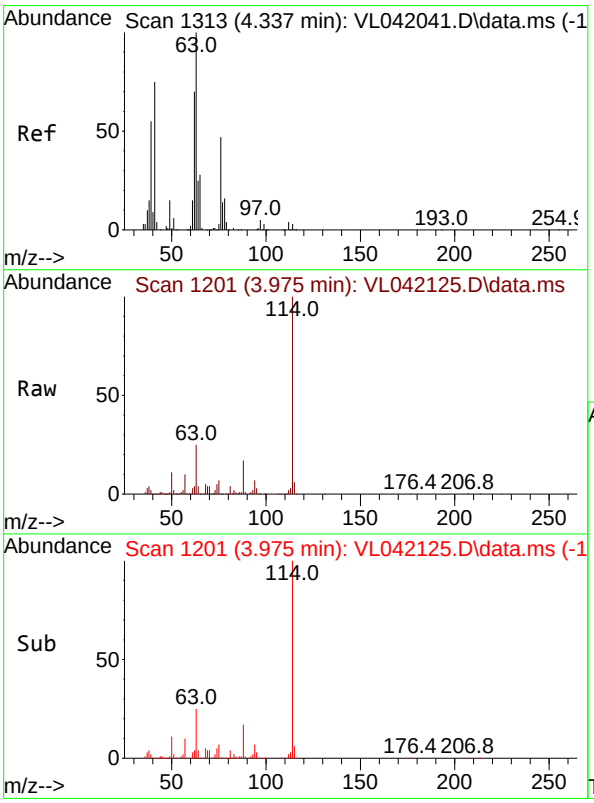
#36
Benzene
Concen: 0.145 ppbv
RT: 3.671 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 78 Resp: 5810

Ion	Ratio	Lower	Upper
78	100		
77	10.1	17.7	26.5#
50	13.1	13.9	20.9#

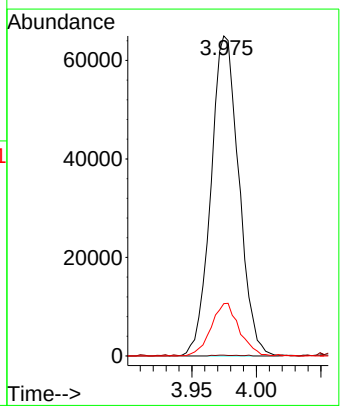


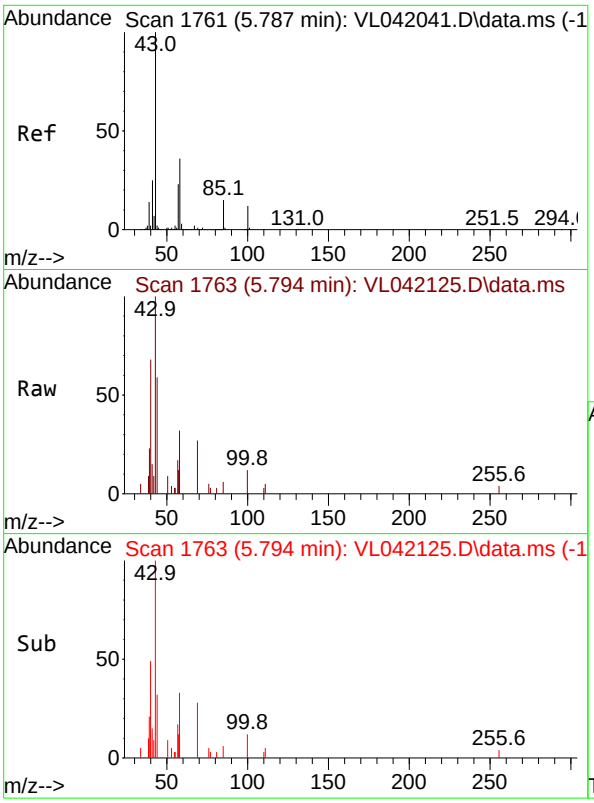


#39
1,2-Dichloropropane
Concen: 6.422 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. -0.363 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 63 Resp: 97746

Ion	Ratio	Lower	Upper
63	100		
41	0.3	60.1	90.1#
62	16.3	55.8	83.8#



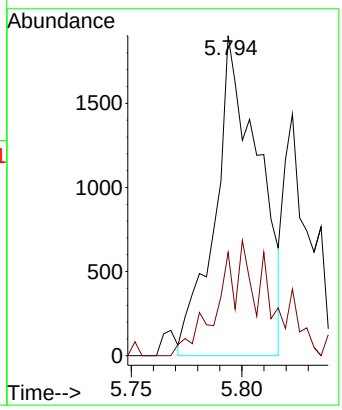


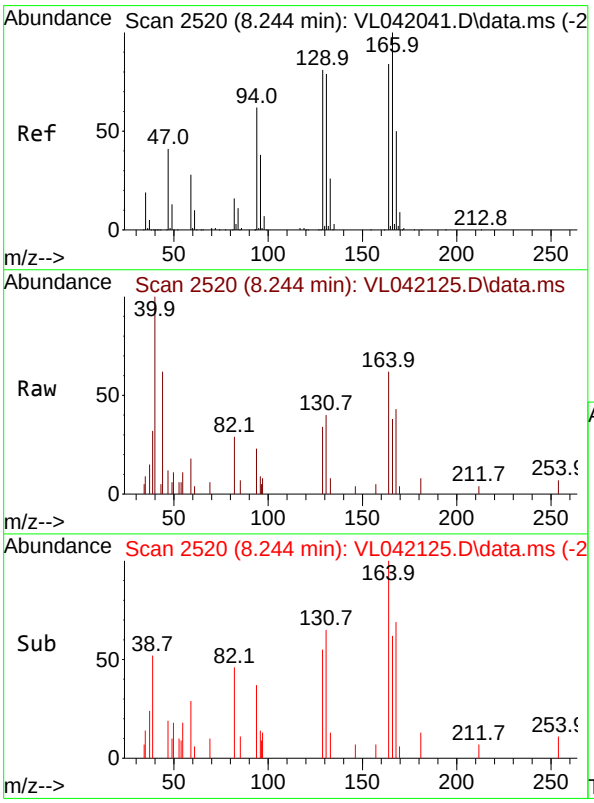
#50
4-Methyl-2-Pentanone
Concen: 0.067 ppbv
RT: 5.794 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 43 Resp: 2599

Ion	Ratio	Lower	Upper
43	100		
58	43.2	29.3	43.9

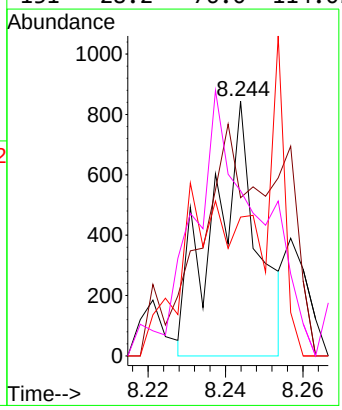


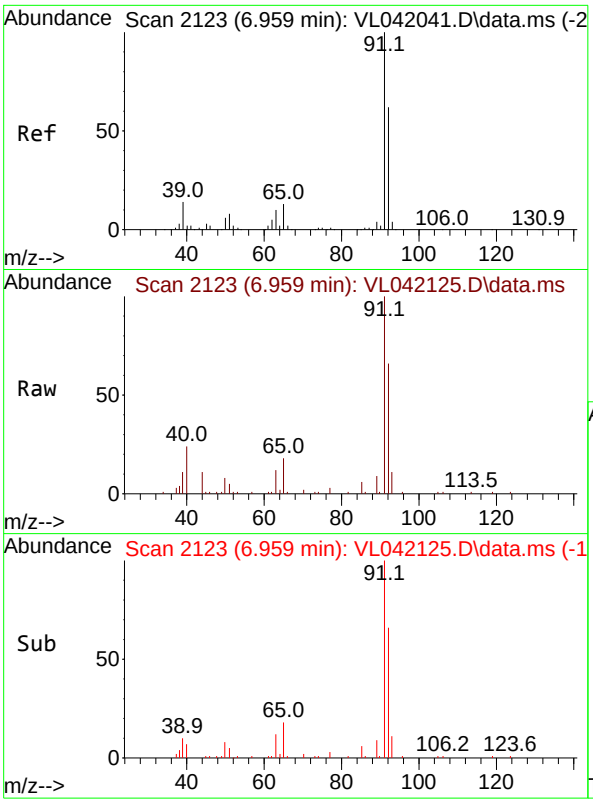


#52
Tetrachloroethene
Concen: 0.048 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion:164 Resp: 663

Ion	Ratio	Lower	Upper
164	100		
166	41.0	95.7	143.5#
129	40.7	77.1	115.7#
131	28.2	76.0	114.0#



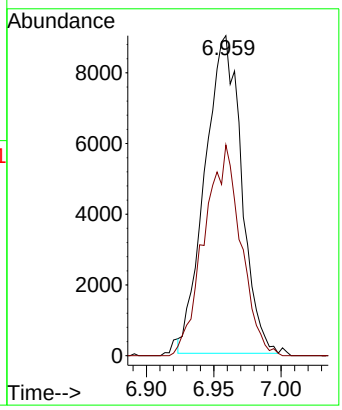


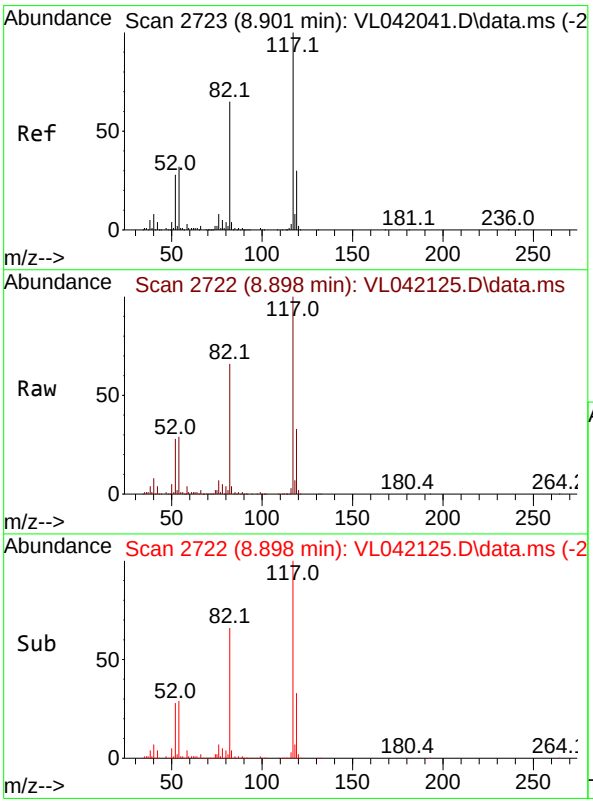
#53
Toluene
Concen: 0.378 ppbv
RT: 6.959 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 91 Resp: 16945

Ion	Ratio	Lower	Upper
91	100		
92	66.4	49.0	73.6

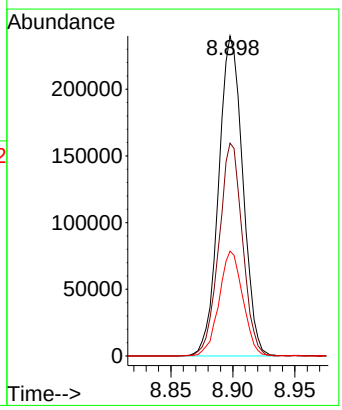


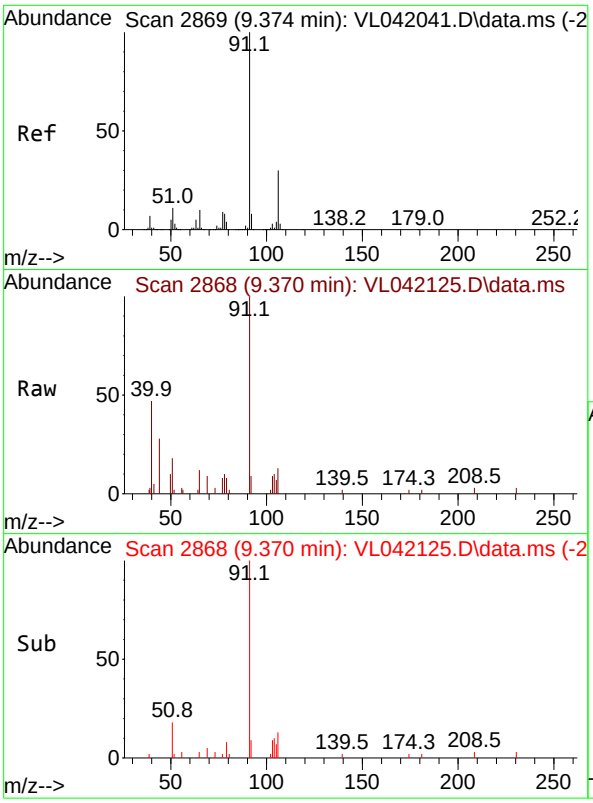


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion:117 Resp: 325600

Ion	Ratio	Lower	Upper
117	100		
82	65.0	55.0	82.6
119	32.4	25.9	38.9



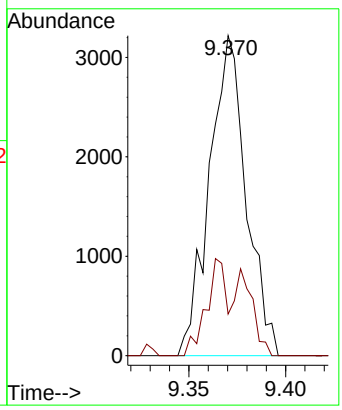


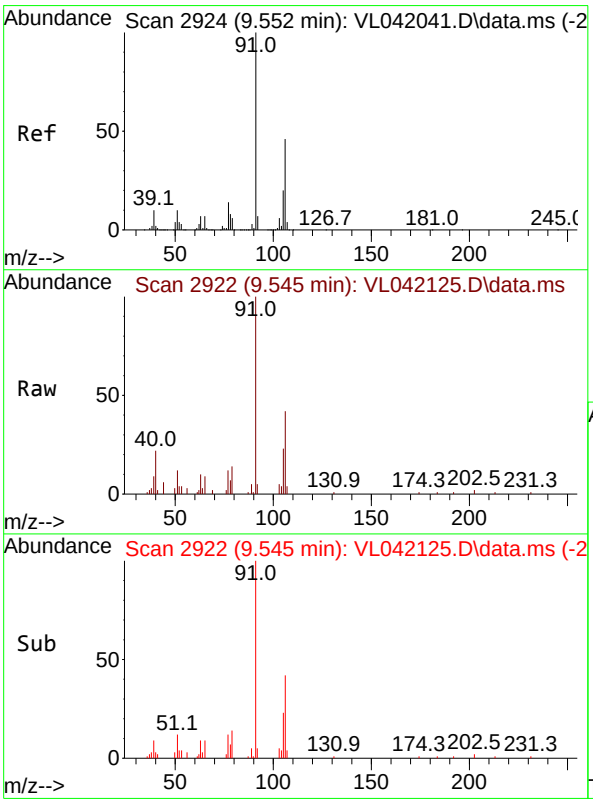
#58
Ethyl Benzene
Concen: 0.071 ppbv
RT: 9.370 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 91 Resp: 4251

Ion	Ratio	Lower	Upper
91	100		
106	13.0	24.2	36.2#

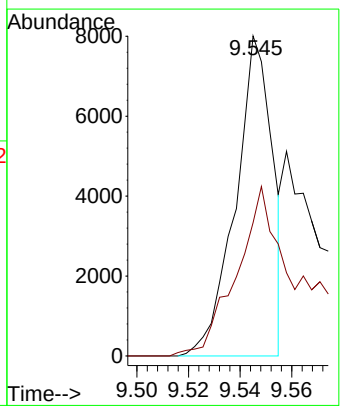


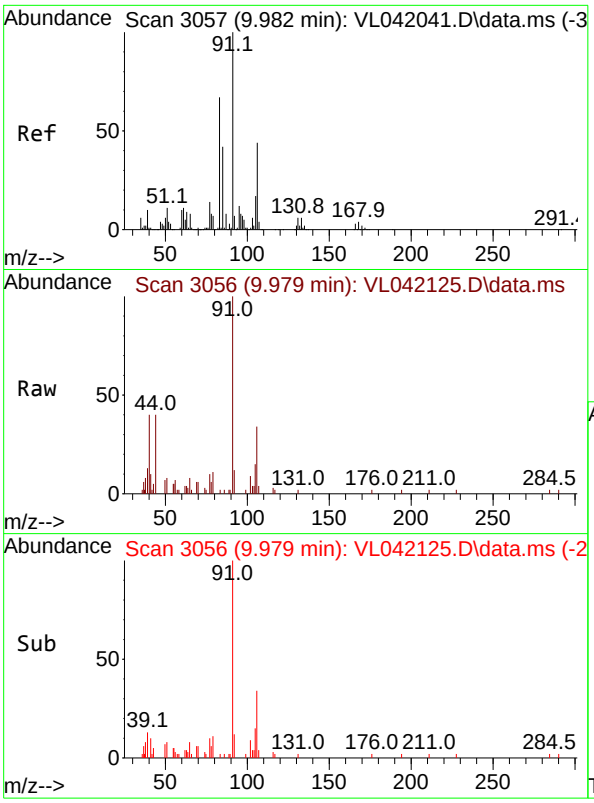


#59
m/p-Xylene
Concen: 0.167 ppbv
RT: 9.545 min Scan# 2922
Delta R.T. -0.007 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 91 Resp: 7952

Ion	Ratio	Lower	Upper
91	100		
106	87.3	0.0	0.0#



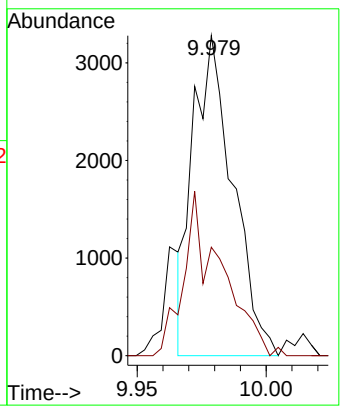


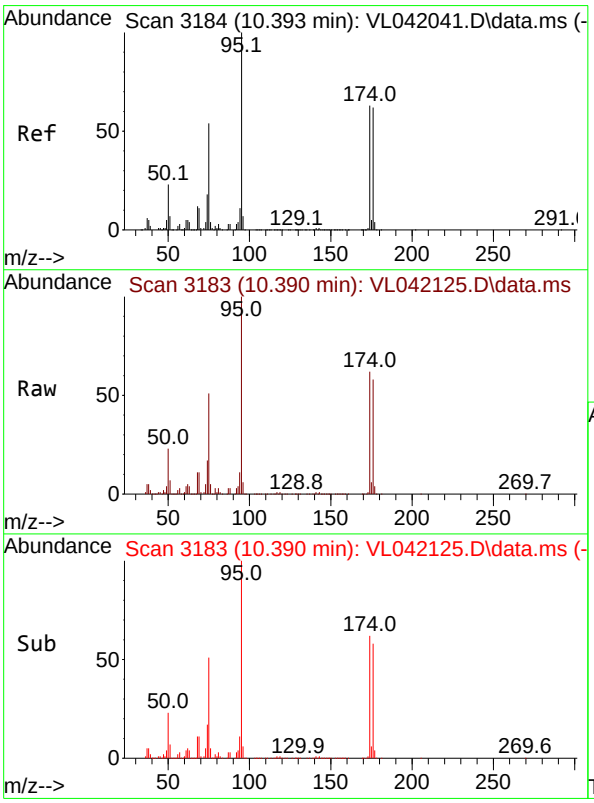
#60
o-Xylene
Concen: 0.074 ppbv
RT: 9.979 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion: 91 Resp: 3534

Ion	Ratio	Lower	Upper
91	100		
106	48.5	22.3	66.8

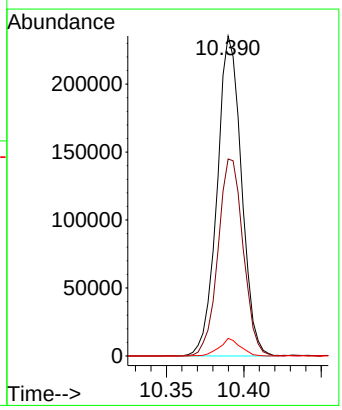


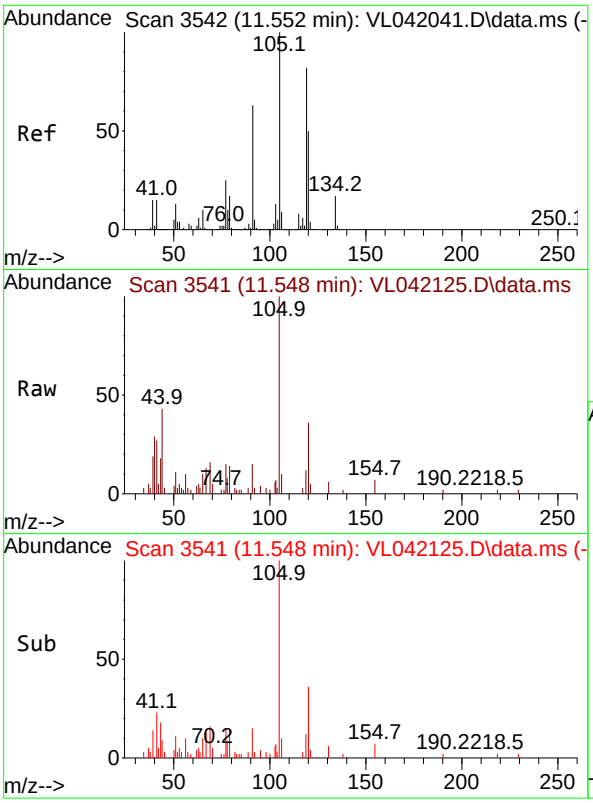


#68
1-Bromo-4-Fluorobenzene
Concen: 10.288 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 95 Resp: 257724

Ion	Ratio	Lower	Upper
95	100		
174	63.7	51.8	77.6
175	4.7	3.9	5.9



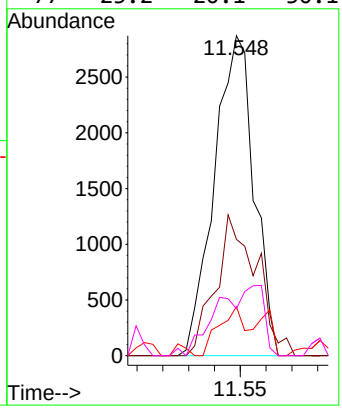


#74
1,2,4-Trimethylbenzene
Concen: 0.054 ppbv
RT: 11.548 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
3

Tgt Ion:105 Resp: 3079

Ion	Ratio	Lower	Upper
105	100		
120	36.4	40.2	60.2#
91	15.3	51.4	77.2#
77	23.2	20.1	30.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042127.D
Acq On : 10 Mar 2025 16:15
Operator : SY/MD
Sample : Q1532-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
4

Quant Time: Mar 11 01:26:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

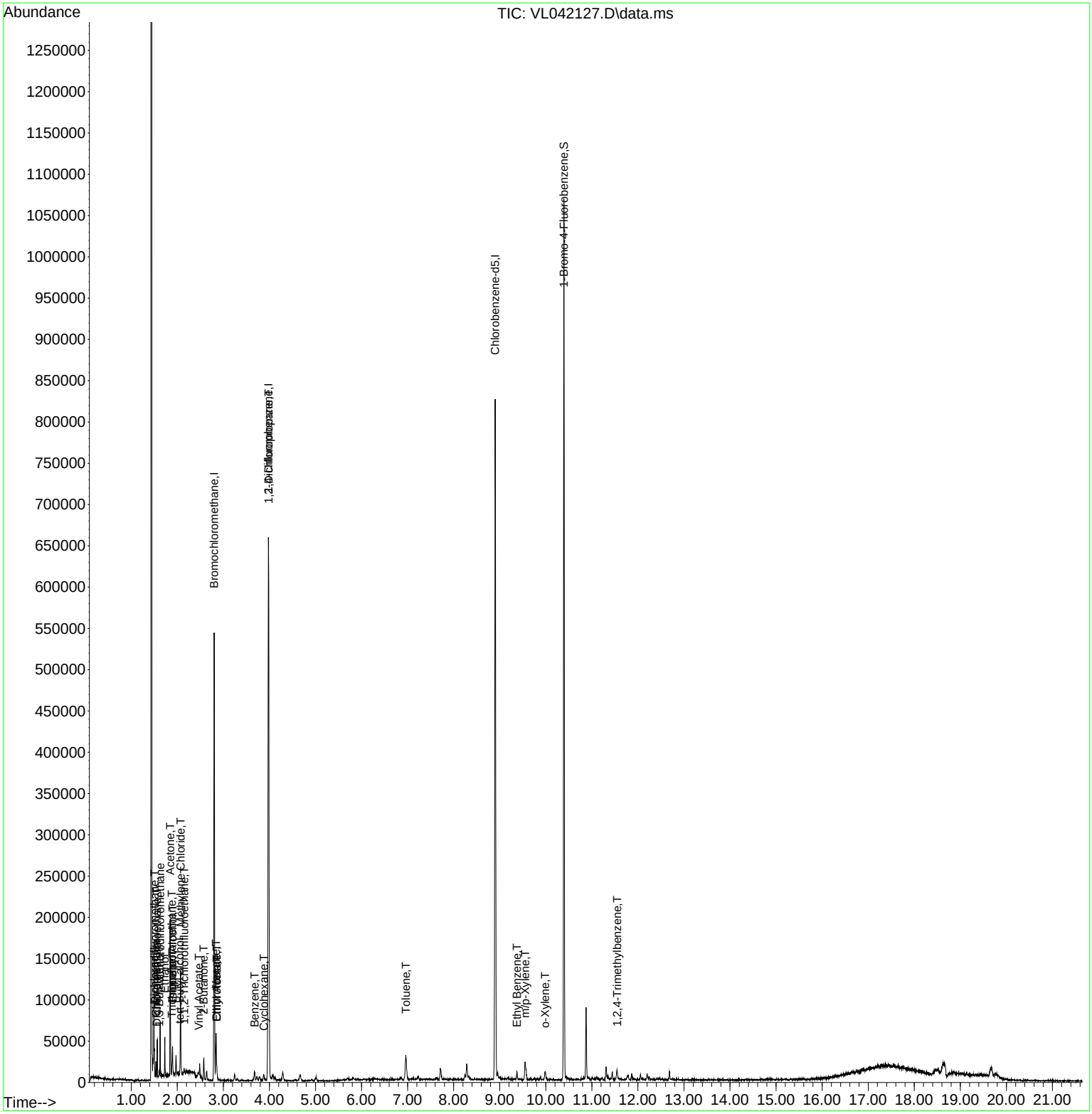
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	162703	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.978	114	379717	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.901	117	323671	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	255866	10.275	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	8600	0.508	ppbv		98
3) Chlorodifluoromethane	1.628	51	827	0.035	ppbv		95
4) Chloromethane	1.538	50	3589	0.574	ppbv		95
8) Dichlorotetrafluoroethane	1.557	85	425	0.031	ppbv	#	73
9) Propene	1.894	41	1620	0.168	ppbv		92
11) Trichlorofluoromethane	1.884	101	4374	0.258	ppbv		94
12) 1,1,2-Trichlorotrifluo...	2.149	101	1025	0.076	ppbv		91
13) Ethanol	1.729	45	14167	23.166	ppbv		99
15) Acetone	1.845	43	82899	5.770	ppbv		98
16) 1,3-Butadiene	1.609	39	1164	0.174	ppbv	#	66
17) tert-Butyl alcohol	2.055	59	2587	0.144	ppbv	#	86
19) Isopropyl Alcohol	1.897	45	14092	1.707	ppbv	#	1
20) Methylene Chloride	2.072	84	18587	3.420	ppbv		97
23) Vinyl Acetate	2.470	43	1598	0.158	ppbv	#	83
25) Ethyl Acetate	2.858	43	3575	0.062	ppbv	#	45
26) Hexane	2.842	57	9892	0.425	ppbv	#	53
29) Chloroform	2.858	83	1592	0.051	ppbv	#	63
30) Cyclohexane	3.878	84	718	0.038	ppbv	#	1
34) 2-Butanone	2.573	43	16205	0.548	ppbv		97
36) Benzene	3.677	78	6120	0.154	ppbv		96
39) 1,2-Dichloropropane	3.981	63	97683	6.474	ppbv	#	22
53) Toluene	6.965	91	19451	0.438	ppbv		96
58) Ethyl Benzene	9.373	91	4141	0.069	ppbv		89
59) m/p-Xylene	9.551	91	10380	0.219	ppbv	#	100
60) o-Xylene	9.985	91	4131	0.087	ppbv		91
74) 1,2,4-Trimethylbenzene	11.548	105	2357	0.041	ppbv	#	68

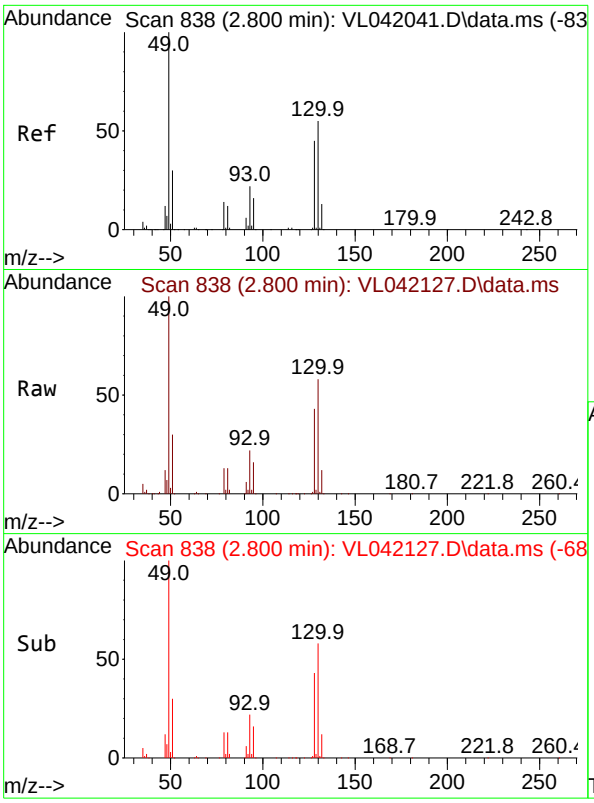
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042127.D
Acq On : 10 Mar 2025 16:15
Operator : SY/MD
Sample : Q1532-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
4

Quant Time: Mar 11 01:26:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



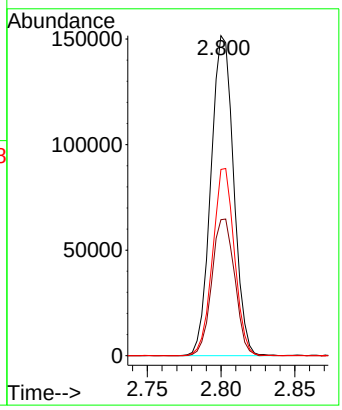


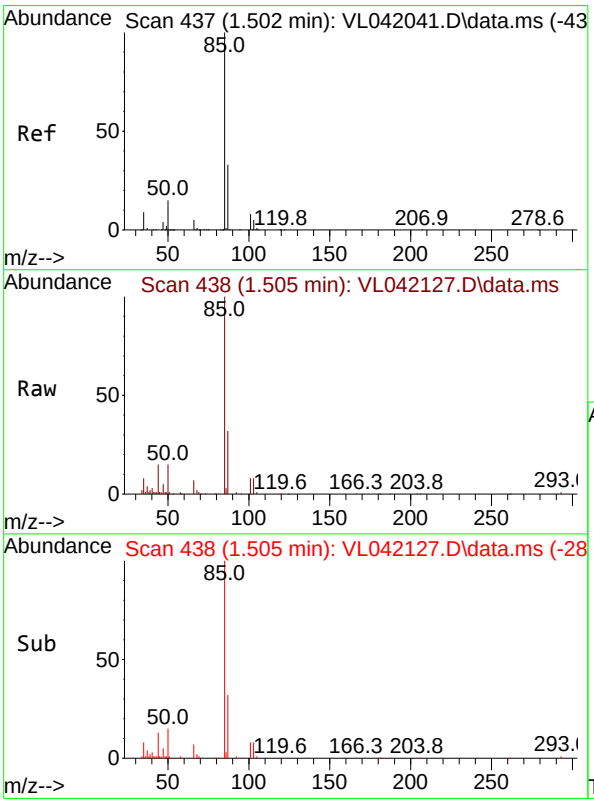
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 49 Resp: 162703

Ion	Ratio	Lower	Upper
49	100		
128	43.0	21.6	64.8
130	56.1	27.8	83.4

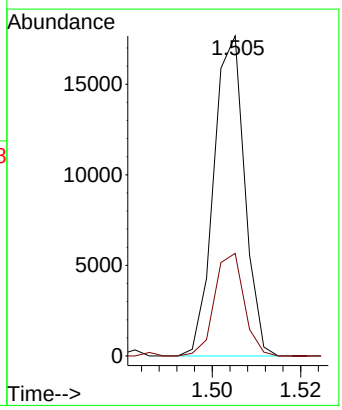


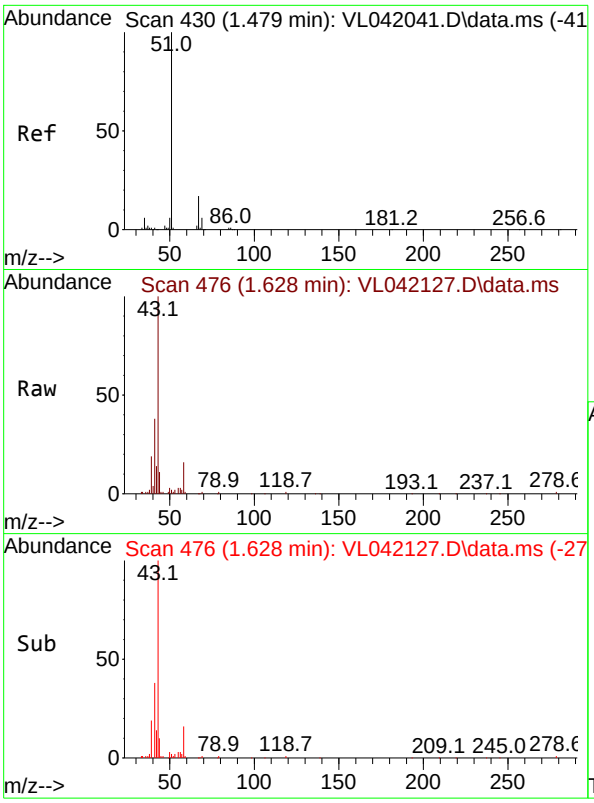


#2
Dichlorodifluoromethane
Concen: 0.508 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 85 Resp: 8600

Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.4	39.6



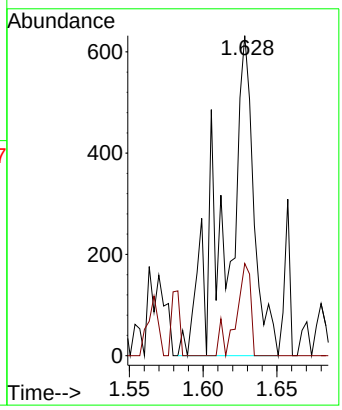


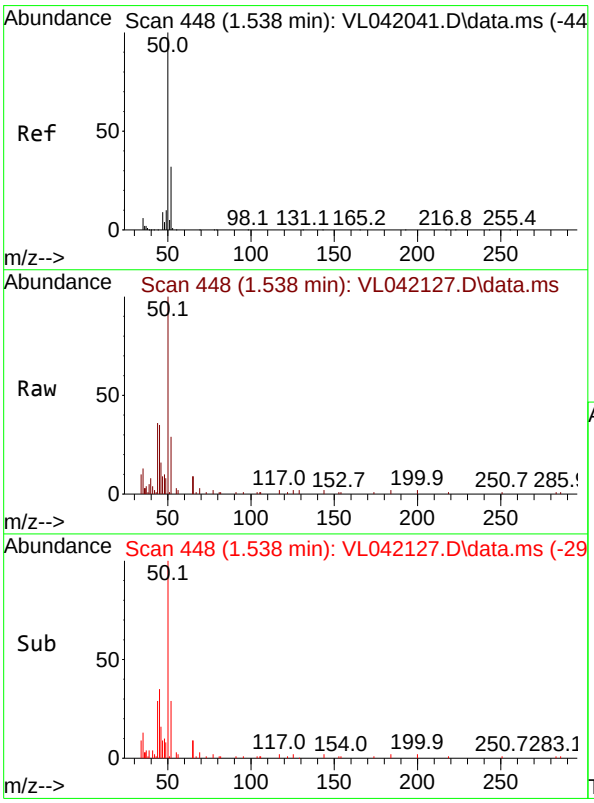
#3
Chlorodifluoromethane
Concen: 0.035 ppbv
RT: 1.628 min Scan# 4
Delta R.T. 0.149 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 51 Resp: 827

Ion	Ratio	Lower	Upper
51	100		
67	15.0	13.7	20.5

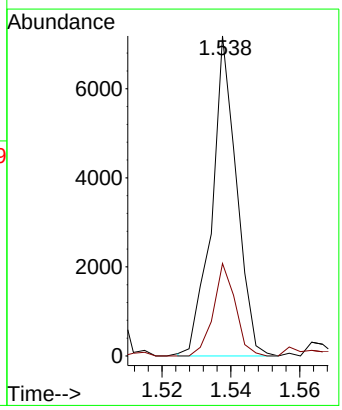


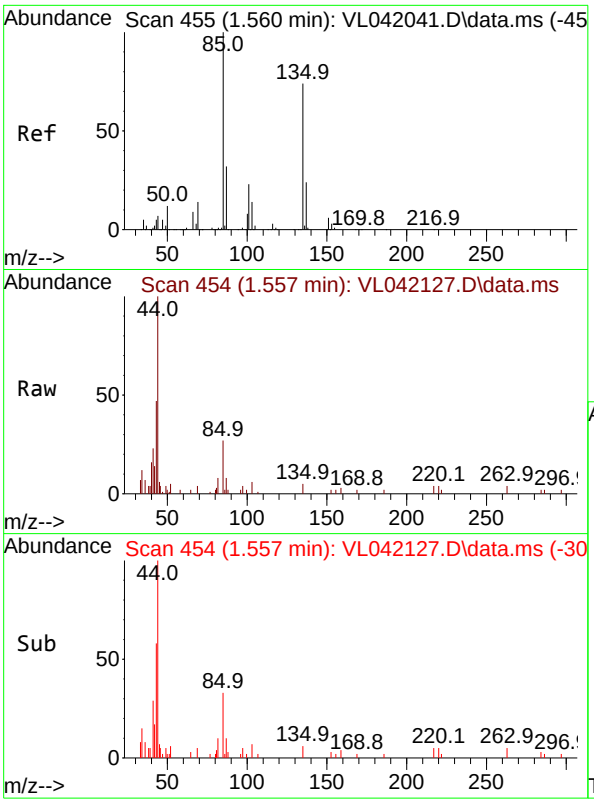


#4
Chloromethane
Concen: 0.574 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 50 Resp: 3589

Ion	Ratio	Lower	Upper
50	100		
52	28.9	25.4	38.0



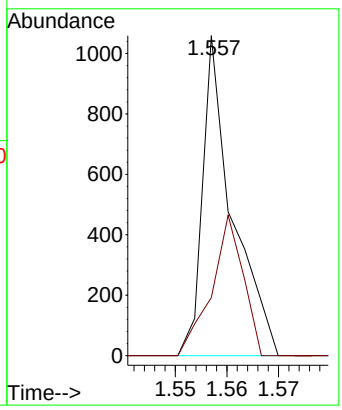


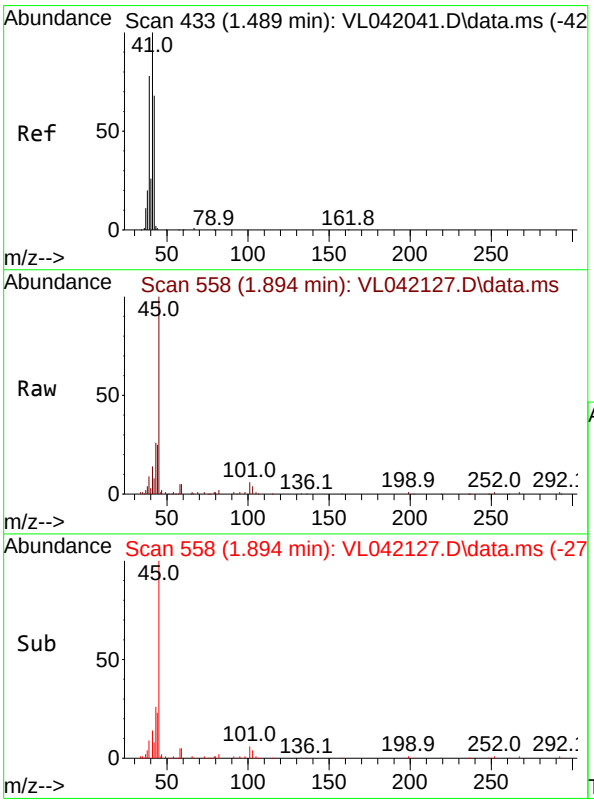
#8
Dichlorotetrafluoroethane
Concen: 0.031 ppbv
RT: 1.557 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 85 Resp: 425

Ion	Ratio	Lower	Upper
85	100		
135	46.4	54.6	81.8#

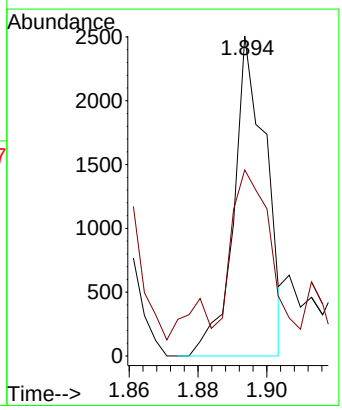


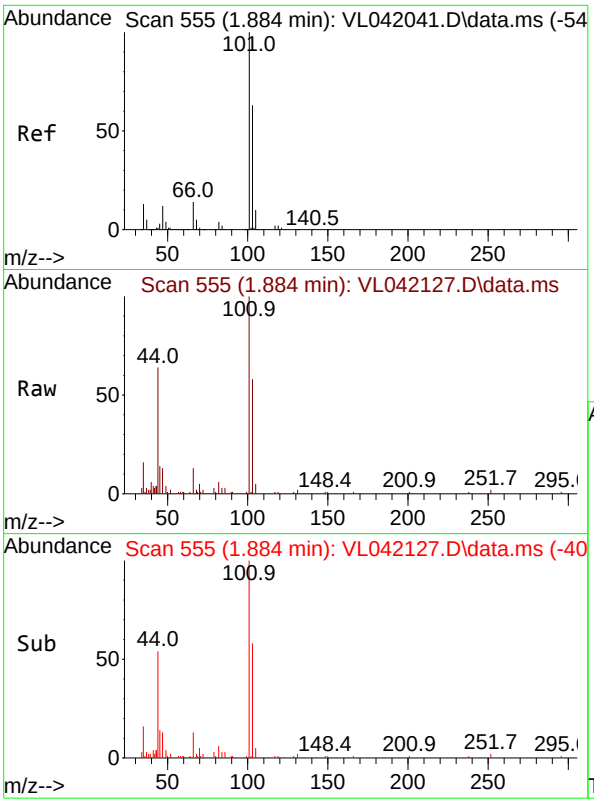


#9
Propene
Concen: 0.168 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.404 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 41 Resp: 1620

Ion	Ratio	Lower	Upper
41	100		
42	63.1	55.8	83.6



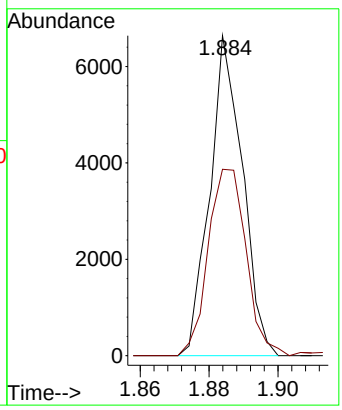


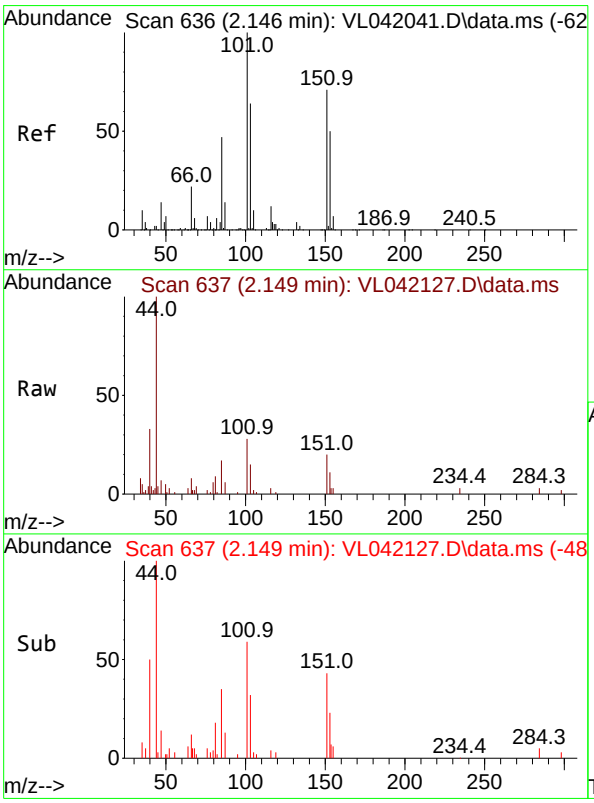
#11
Trichlorofluoromethane
Concen: 0.258 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion:101 Resp: 4374

Ion	Ratio	Lower	Upper
101	100		
103	58.3	50.6	75.8

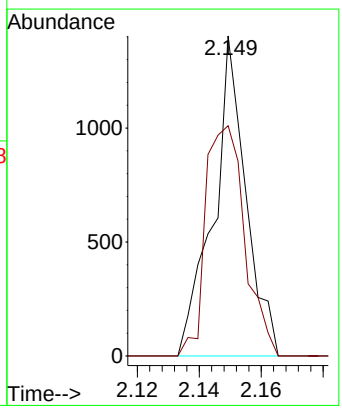


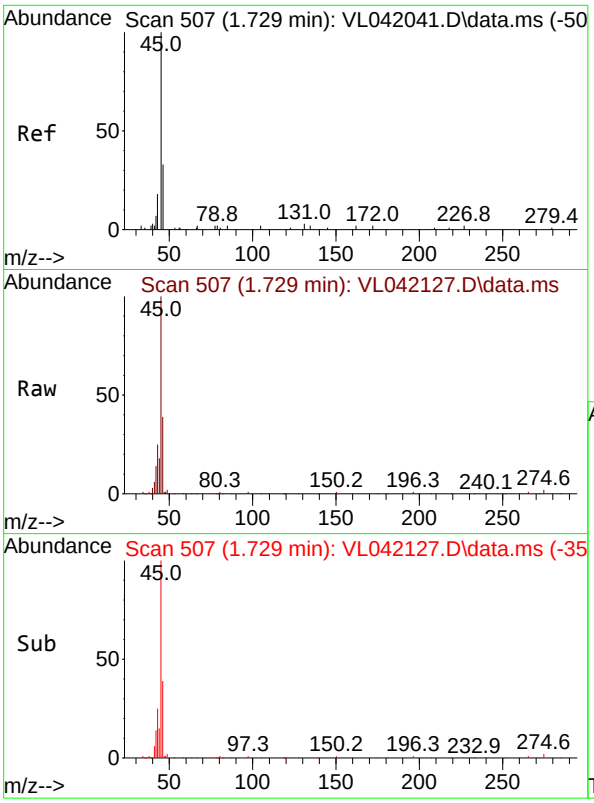


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.076 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion:101 Resp: 1025

Ion	Ratio	Lower	Upper
101	100		
151	86.2	62.6	94.0



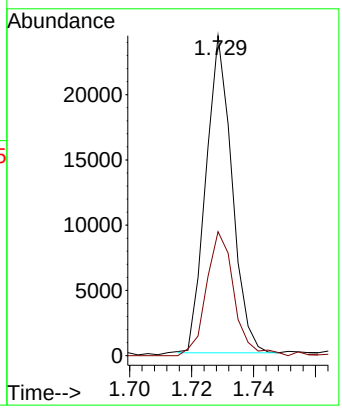


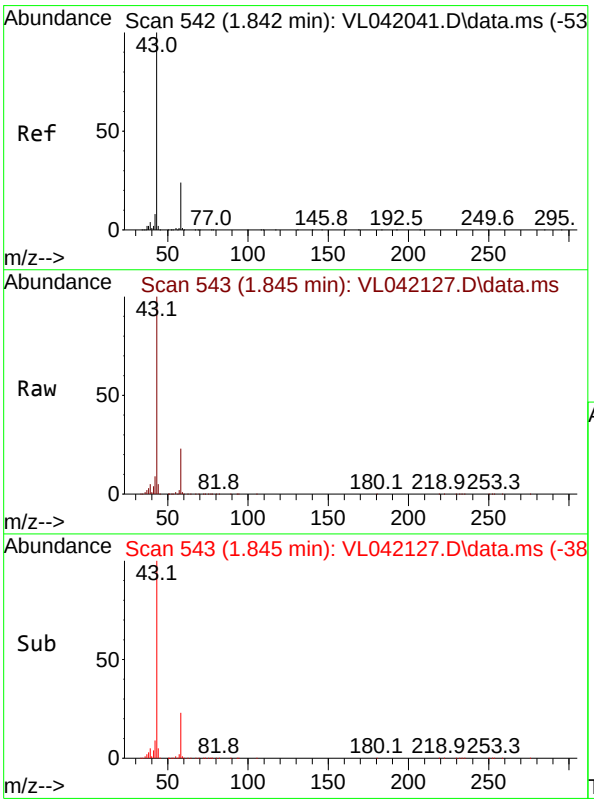
#13
Ethanol
Concen: 23.166 ppbv
RT: 1.729 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 45 Resp: 14167

Ion	Ratio	Lower	Upper
45	100		
46	43.5	17.1	68.3

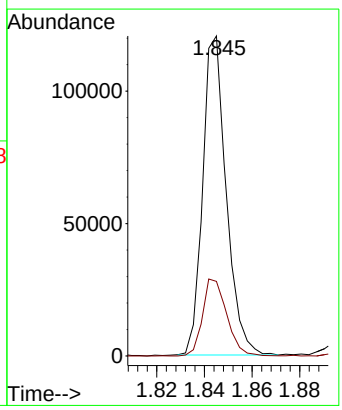


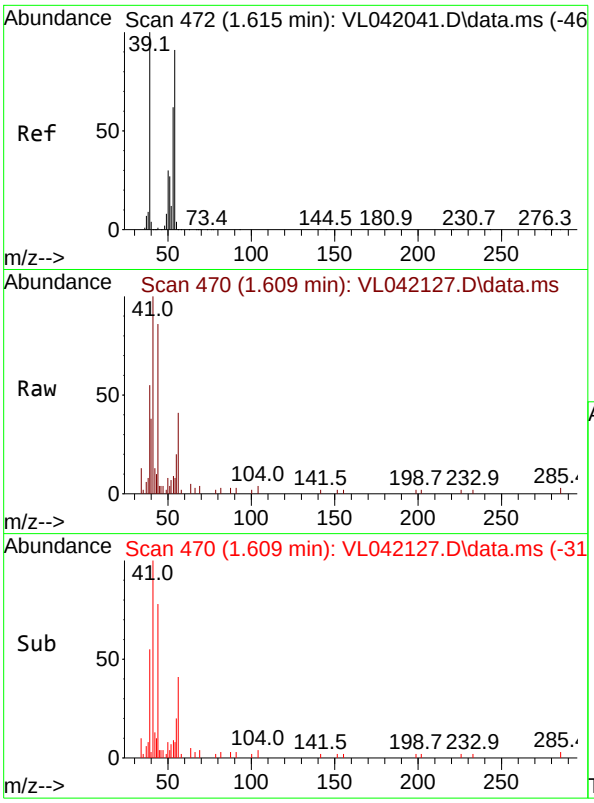


#15
Acetone
Concen: 5.770 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 43 Resp: 82899

Ion	Ratio	Lower	Upper
43	100		
58	24.9	20.7	31.1



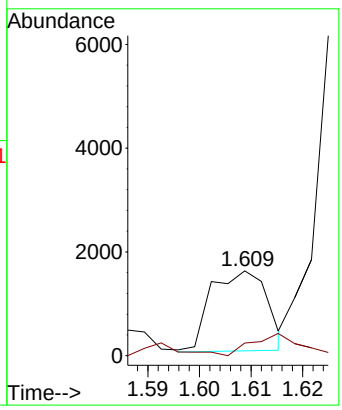


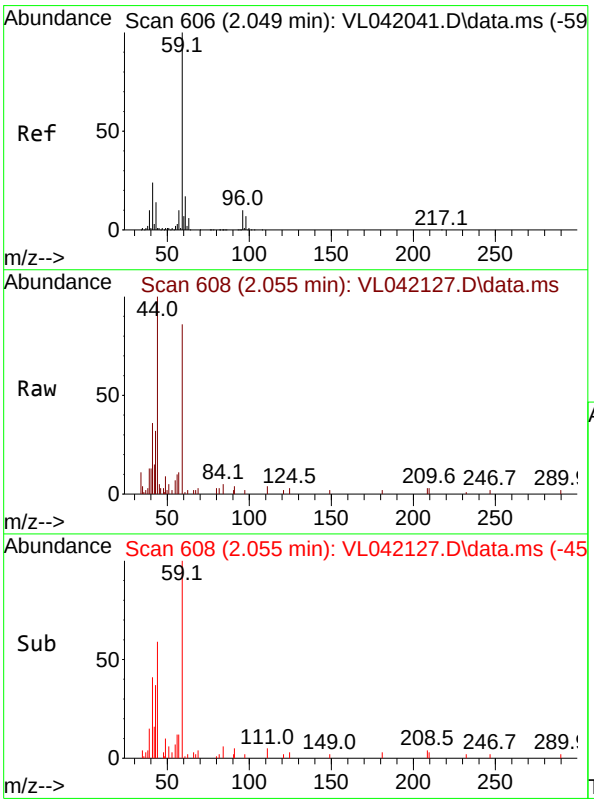
#16
1,3-Butadiene
Concen: 0.174 ppbv
RT: 1.609 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 39 Resp: 1164

Ion	Ratio	Lower	Upper
39	100		
54	46.0	59.6	89.4#

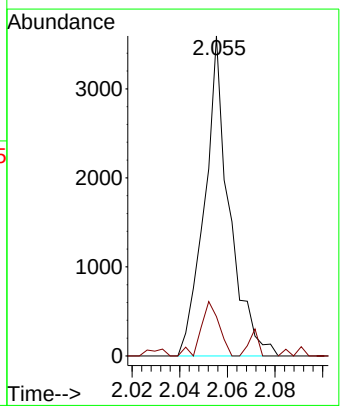


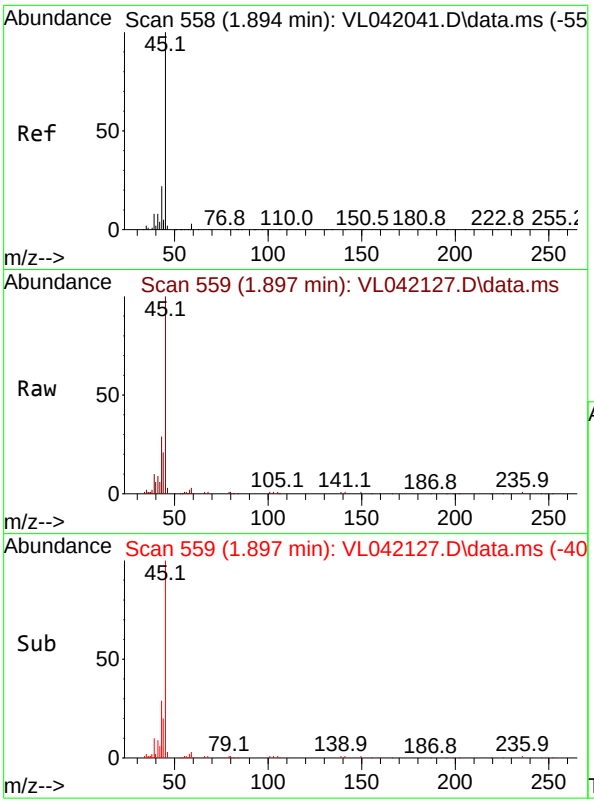


#17
tert-Butyl alcohol
Concen: 0.144 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.006 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 59 Resp: 2587

Ion	Ratio	Lower	Upper
59	100		
57	17.1	9.3	13.9#



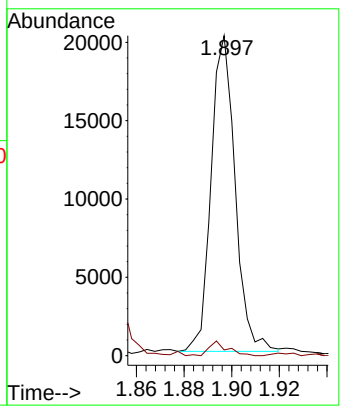


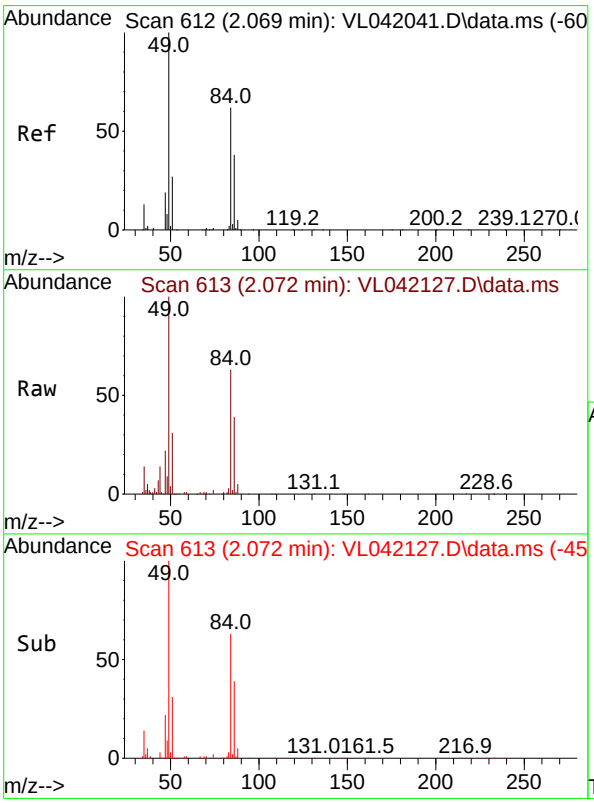
#19
Isopropyl Alcohol
Concen: 1.707 ppbv
RT: 1.897 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 45 Resp: 14092

Ion	Ratio	Lower	Upper
45	100		
58	146.3	35.3	52.9#

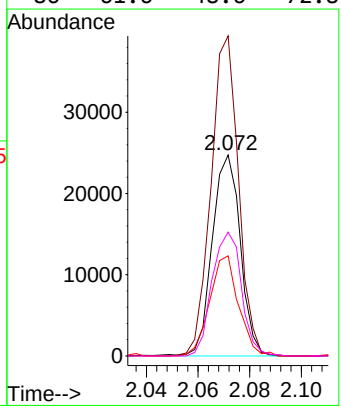


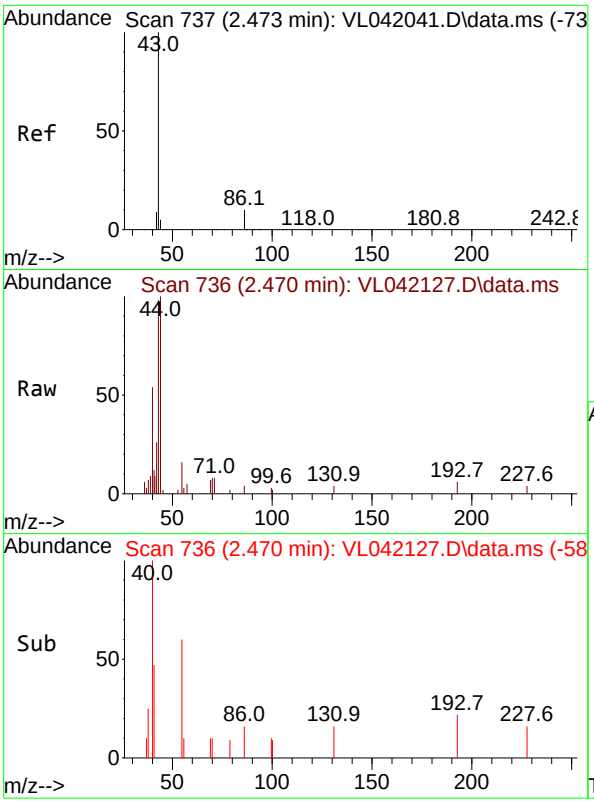


#20
Methylene Chloride
Concen: 3.420 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 84 Resp: 18587

Ion	Ratio	Lower	Upper
84	100		
49	158.6	130.0	195.0
51	49.8	37.4	56.0
86	61.6	48.6	72.8



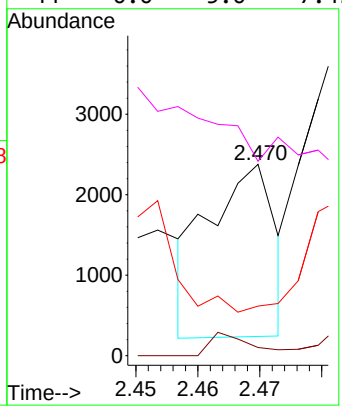


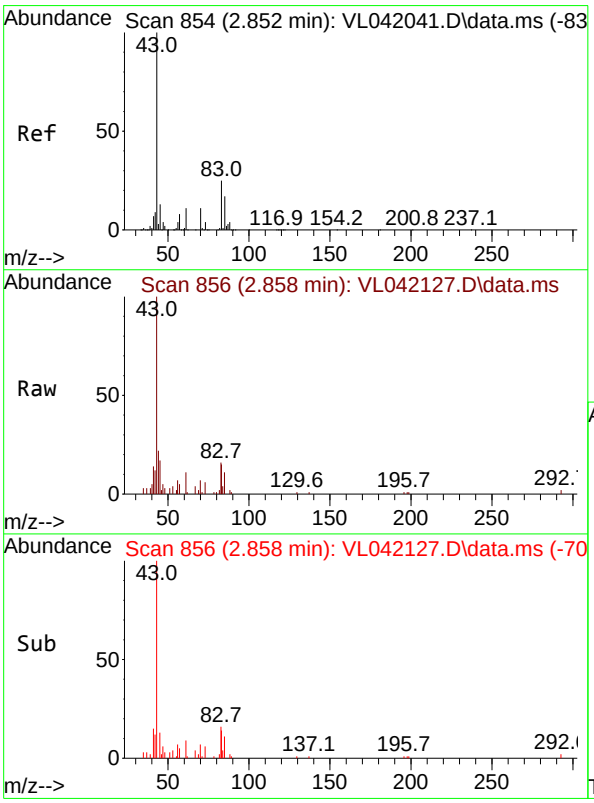
#23
Vinyl Acetate
Concen: 0.158 ppbv
RT: 2.470 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 43 Resp: 1598

Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.0	10.4#
42	0.0	7.6	11.4#
44	0.0	5.0	7.4#

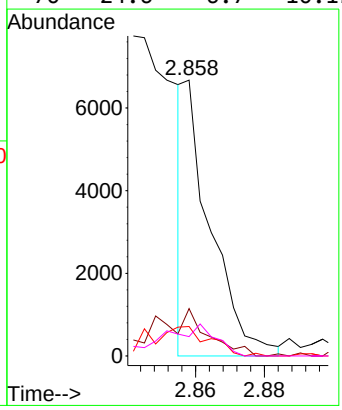


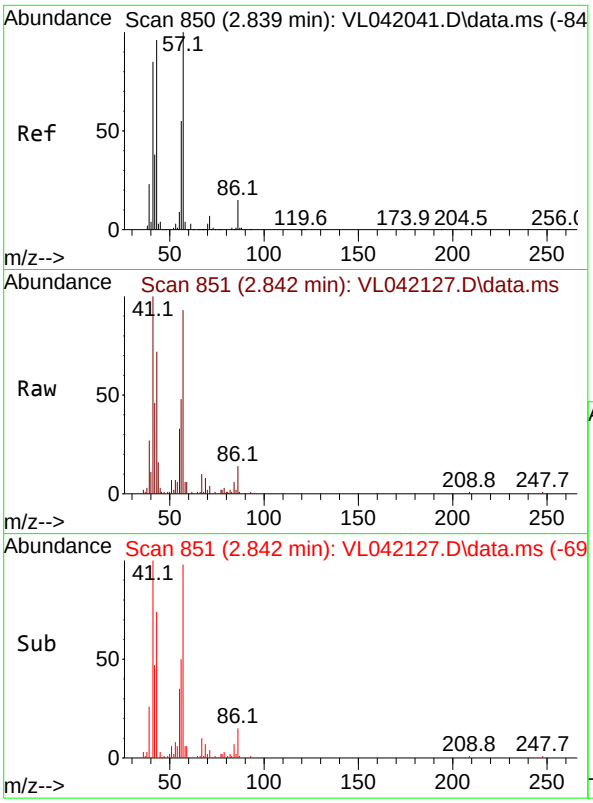


#25
Ethyl Acetate
Concen: 0.062 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.006 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 43 Resp: 3575

Ion	Ratio	Lower	Upper
43	100		
45	37.5	8.1	12.1#
61	24.0	7.2	10.8#
70	24.6	6.7	10.1#



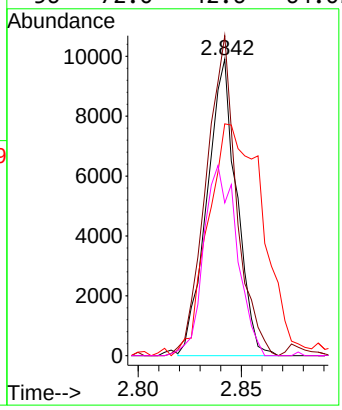


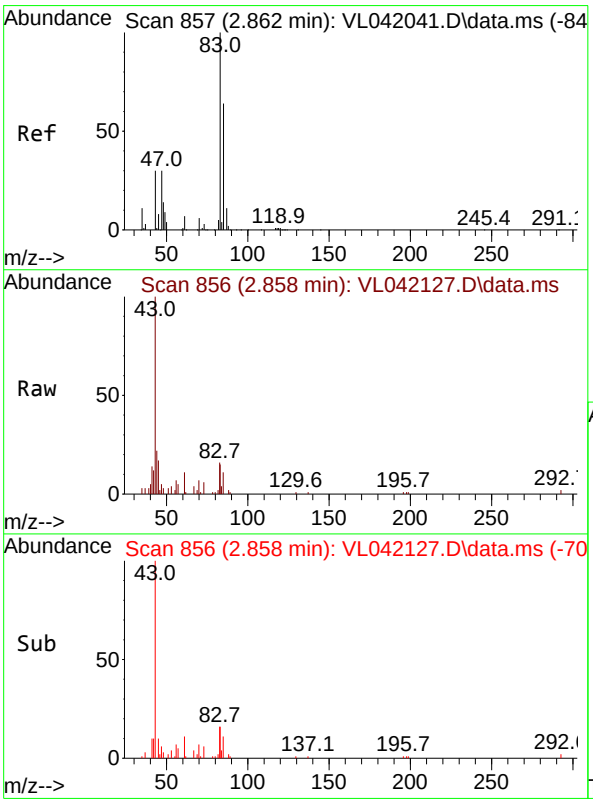
#26
Hexane
Concen: 0.425 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 57 Resp: 9892

Ion	Ratio	Lower	Upper
57	100		
41	113.9	70.6	106.0#
43	148.7	199.4	299.0#
56	72.0	42.6	64.0#

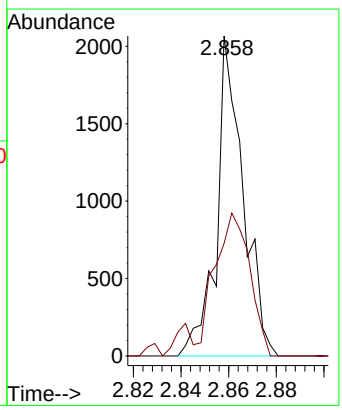


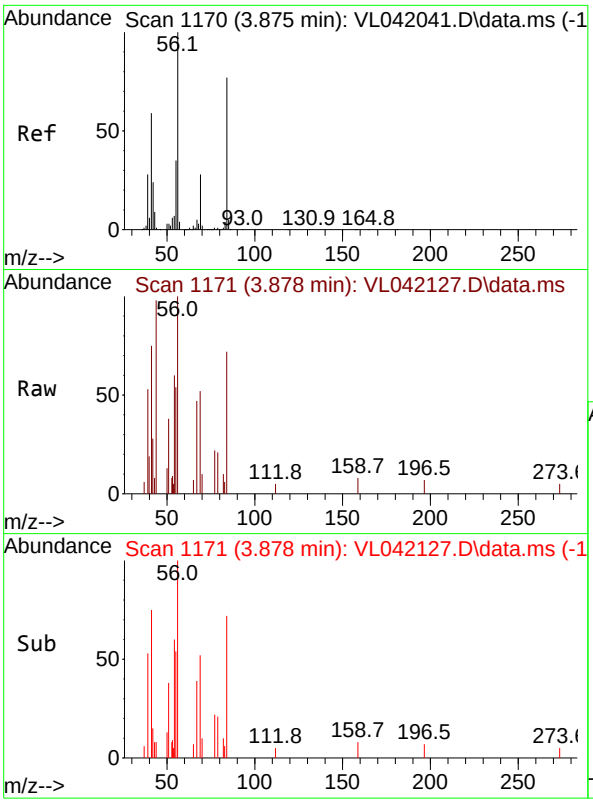


#29
Chloroform
Concen: 0.051 ppbv
RT: 2.858 min Scan# 856
Delta R.T. -0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 83 Resp: 1592

Ion	Ratio	Lower	Upper
83	100		
85	35.2	51.2	76.8#



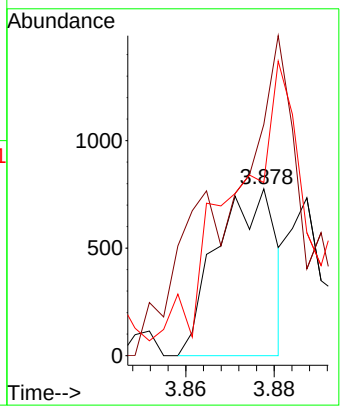


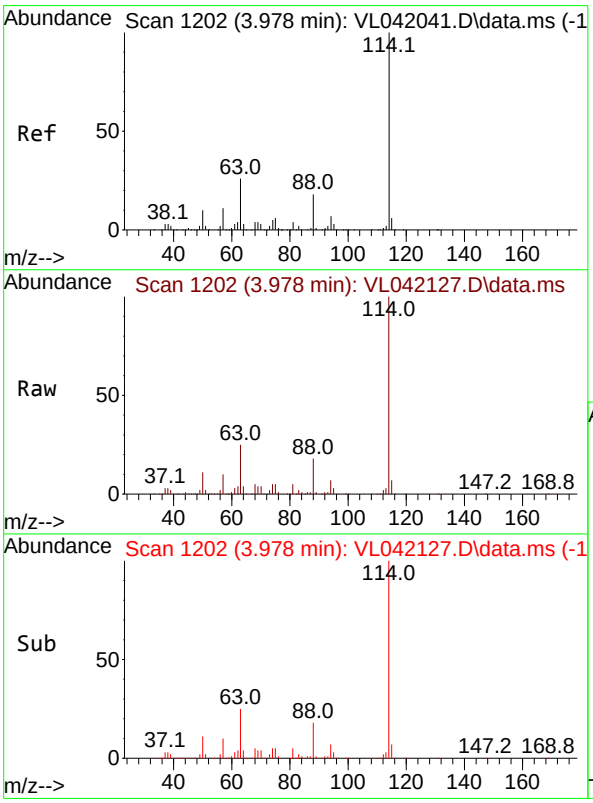
#30
Cyclohexane
Concen: 0.038 ppbv
RT: 3.878 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 84 Resp: 718

Ion	Ratio	Lower	Upper
84	100		
56	268.7	101.5	152.3#
41	267.7	62.6	93.8#

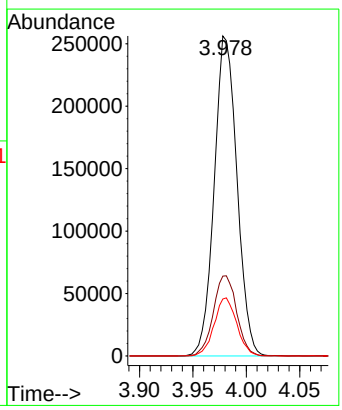


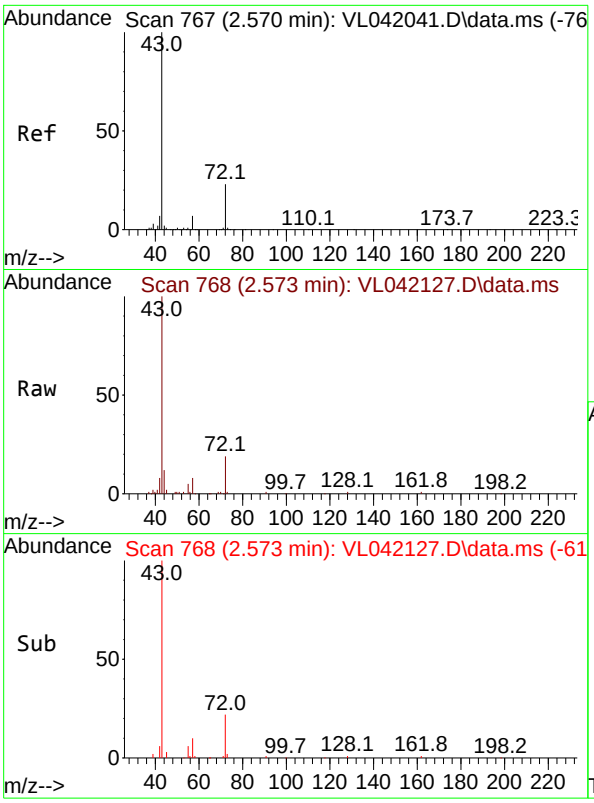


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion:114 Resp: 379717

Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.1	30.1
88	18.1	14.3	21.5



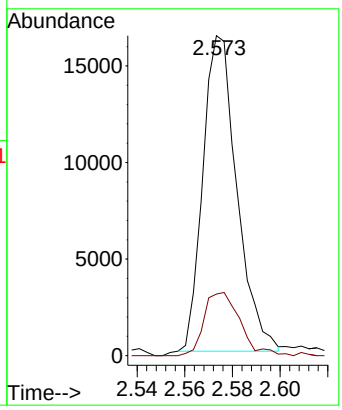


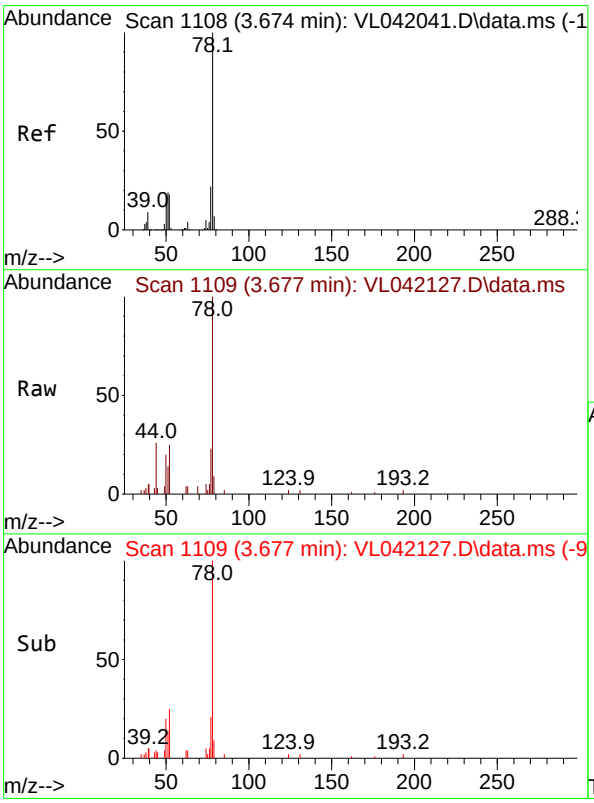
#34
2-Butanone
Concen: 0.548 ppbv
RT: 2.573 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 43 Resp: 16205

Ion	Ratio	Lower	Upper
43	100		
72	21.5	18.5	27.7

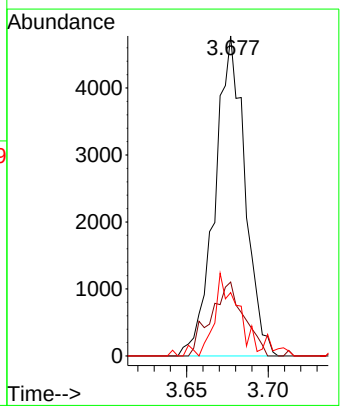


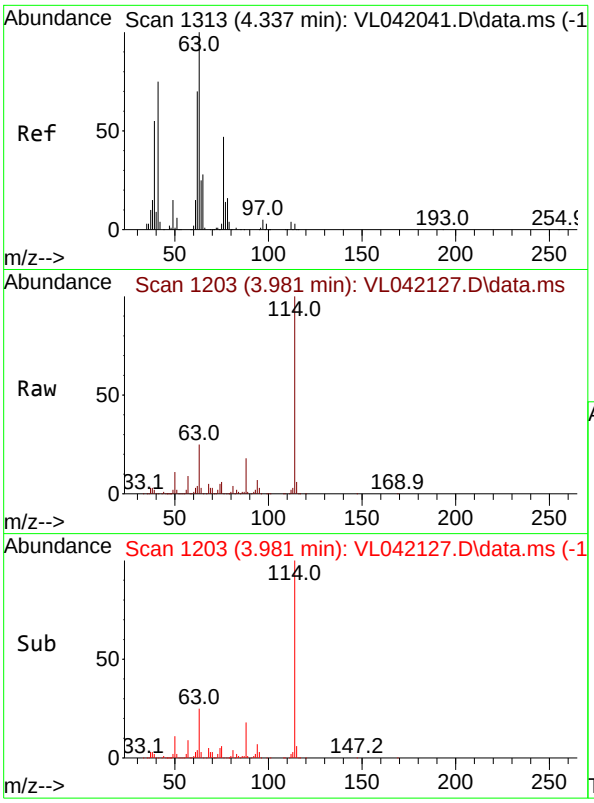


#36
Benzene
Concen: 0.154 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 78 Resp: 6120

Ion	Ratio	Lower	Upper
78	100		
77	23.1	17.7	26.5
50	19.8	13.9	20.9



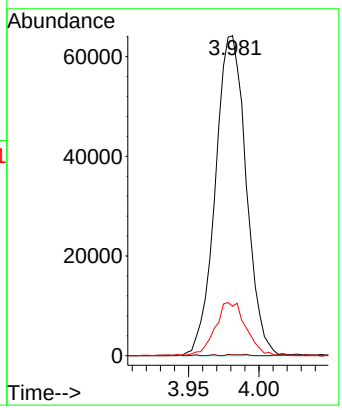


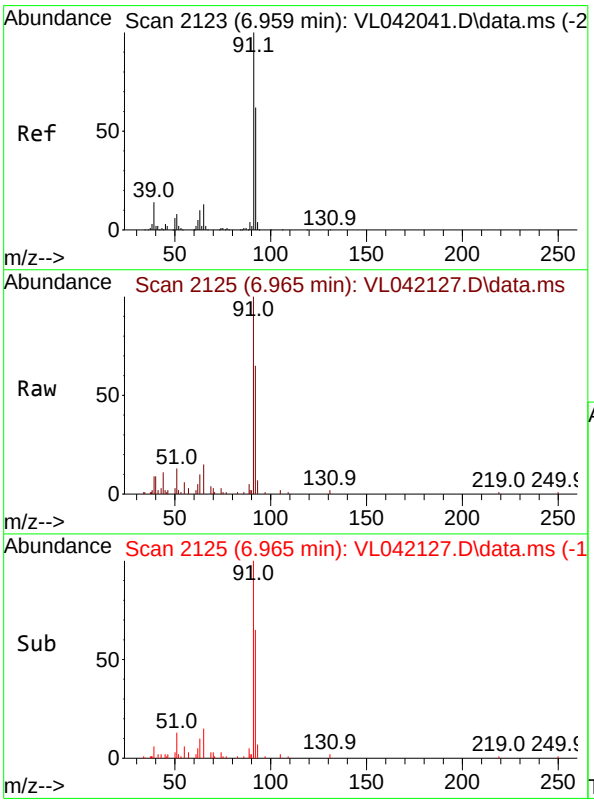
#39
1,2-Dichloropropane
Concen: 6.474 ppbv
RT: 3.981 min Scan# 1
Delta R.T. -0.356 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 63 Resp: 97683

Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.1	90.1#
62	15.4	55.8	83.8#

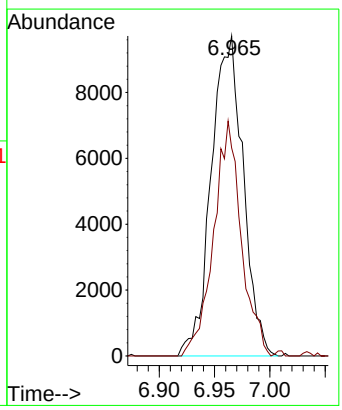


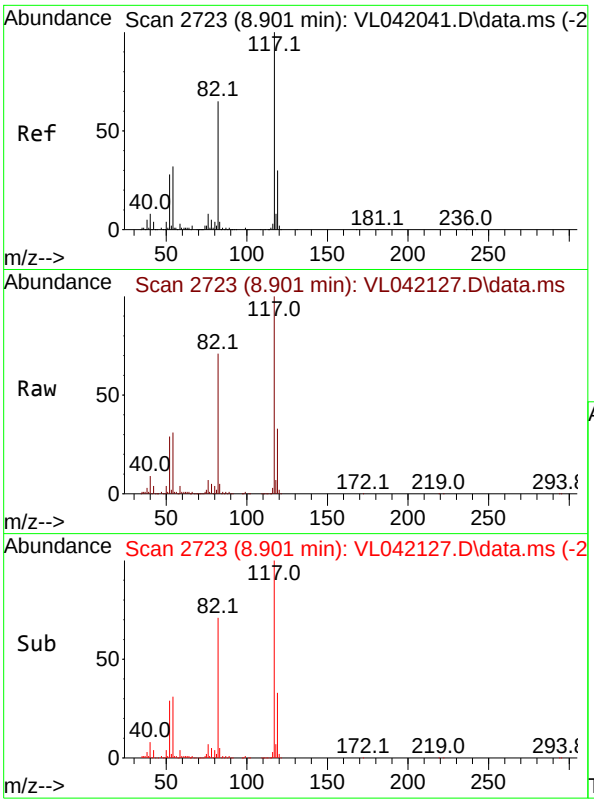


#53
Toluene
Concen: 0.438 ppbv
RT: 6.965 min Scan# 2125
Delta R.T. 0.006 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 91 Resp: 19451

Ion	Ratio	Lower	Upper
91	100		
92	64.4	49.0	73.6



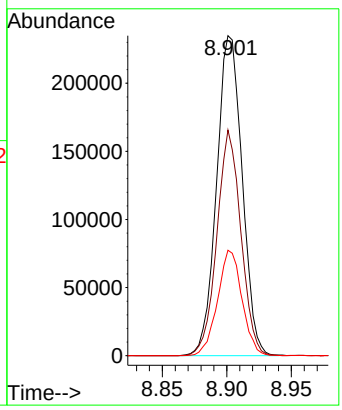


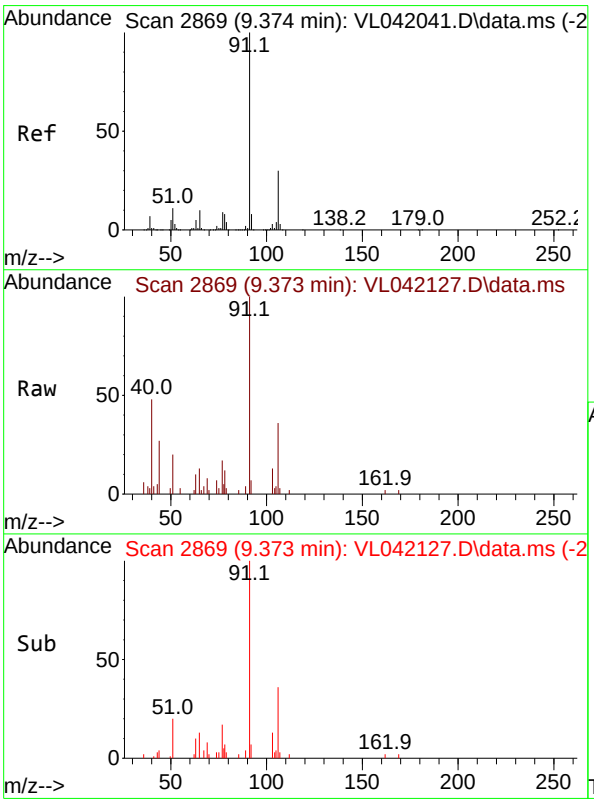
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion:117 Resp: 323671

Ion	Ratio	Lower	Upper
117	100		
82	66.2	55.0	82.6
119	31.6	25.9	38.9

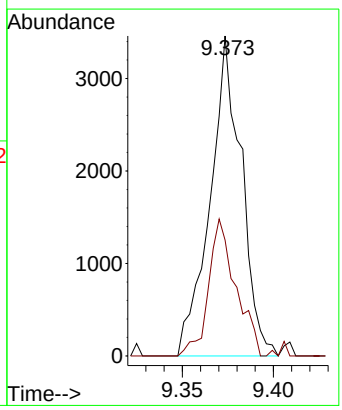


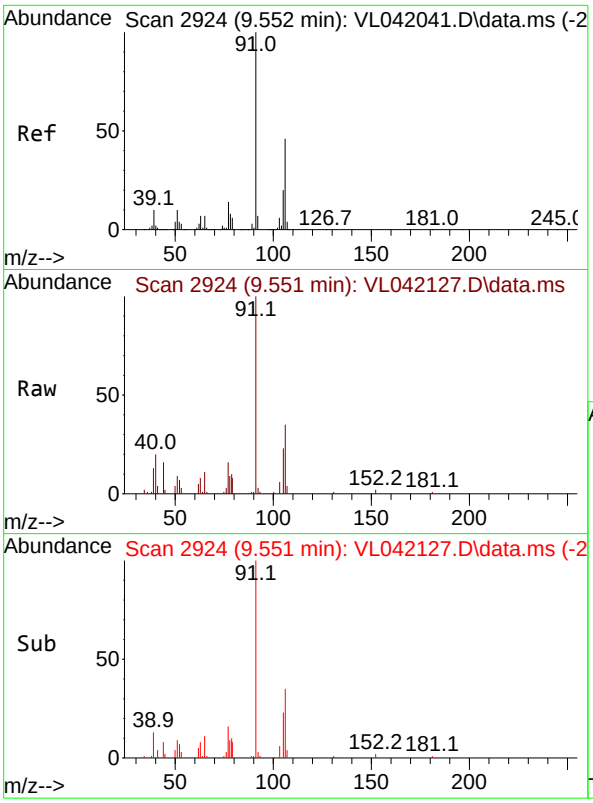


#58
Ethyl Benzene
Concen: 0.069 ppbv
RT: 9.373 min Scan# 2869
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 91 Resp: 4141

Ion	Ratio	Lower	Upper
91	100		
106	36.2	24.2	36.2



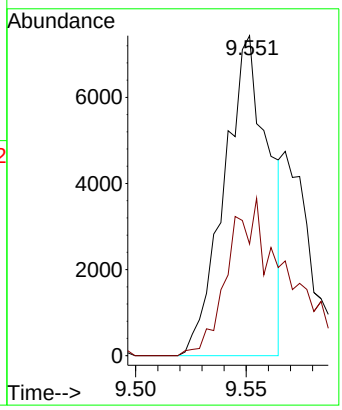


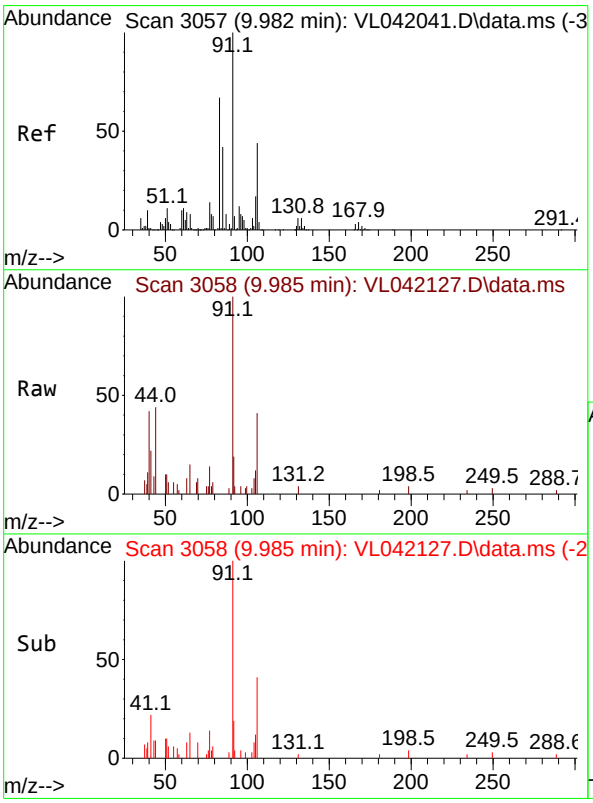
#59
m/p-Xylene
Concen: 0.219 ppbv
RT: 9.551 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 91 Resp: 10380

Ion	Ratio	Lower	Upper
91	100		
106	63.9	0.0	0.0#

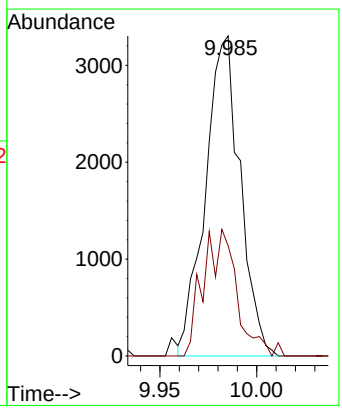


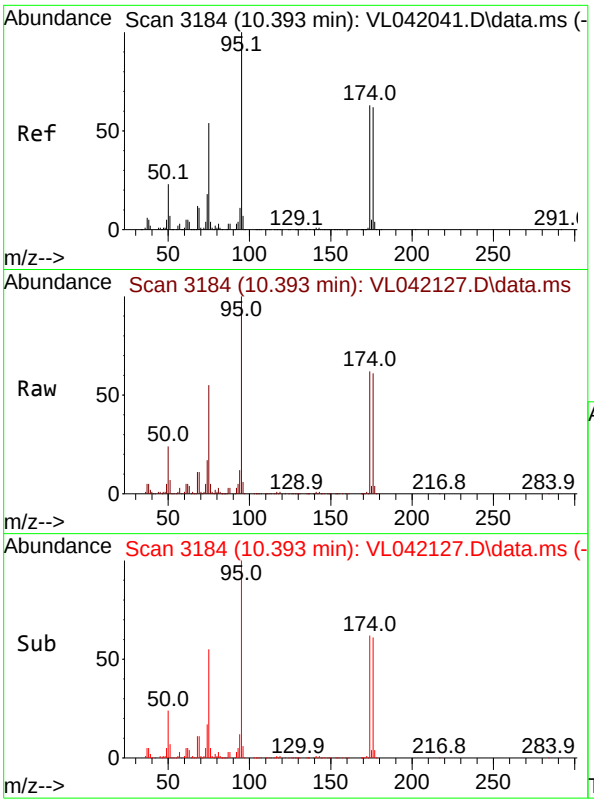


#60
o-Xylene
Concen: 0.087 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 91 Resp: 4131

Ion	Ratio	Lower	Upper
91	100		
106	38.5	22.3	66.8



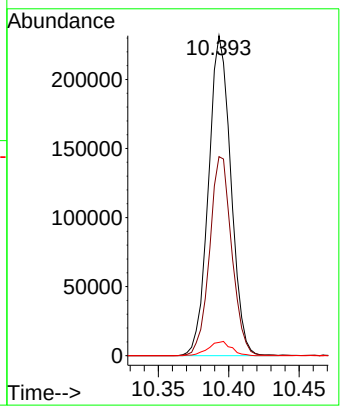


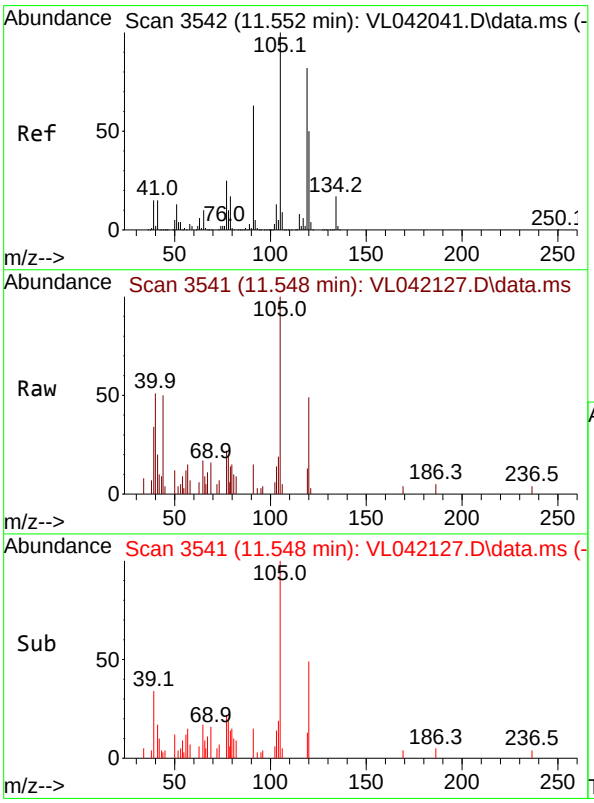
#68
1-Bromo-4-Fluorobenzene
Concen: 10.275 ppbv
RT: 10.393 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 95 Resp: 255866

Ion	Ratio	Lower	Upper
95	100		
174	61.8	51.8	77.6
175	4.6	3.9	5.9





#74
1,2,4-Trimethylbenzene
Concen: 0.041 ppbv
RT: 11.548 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion:105 Resp: 2357

Ion	Ratio	Lower	Upper
105	100		
120	46.4	40.2	60.2
91	15.0	51.4	77.2#
77	21.8	20.1	30.1