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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : ASHLEY

RTP ENVIRONMENTAL

239 US Highway 22 East

Green Brook, NJ - 08812

Phone No: 732-968-9600

ORDER ID : Q3627

ATTENTION : David Gabel

Laboratory Certification ID # 20012

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

Cover Page

Order ID : Q3627

Project ID : Ashley

Client : RTP Environmental

Lab Sample Number	Client Sample Number
Q3627-01	UNIT-8-IA-1
Q3627-02	UNIT-7-IA-1
Q3627-03	AA-East
Q3627-04	UNIT-8-SS-1
Q3627-05	UNIT-7-SS-1

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

Signature : _____

Date: 11/20/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q 3627

Client Contact Information	Bottle Order ID : **B2510052**	Courier :	1 of 5 COCs
Client ID : **RTPE01** Project ID : Air Ashley		Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :		
	Site Details:	Batch Certified	
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : NJ regulatory	
Country :	Rush (Specify): _____ **Days**	EDD Type : HaZ / Excel w/ air	

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 (Conversion Table in excel.)	TO-15				Indoor/Ambinet Air	Soil Gas		
VA28-IA-1	11/11/25 11/12/25	1417	1417	-30	-10	70	70	-30	-8.0	10249	10608	6 L	4.16	VL043048.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: 11/10/25	Canisters Received by: CW	Date/Time: 11/10/25		
Samples Relinquished by: CW	Date/Time: 11/12/25	Received by: [illegible]	Date/Time: 16:53 11/14/25.		B2510052 - 5
Relinquished by:	Date/Time:	Received by: [illegible]	Date/Time:		

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3627

Client Contact Information	Bottle Order ID : **B2510052**	Courier :	2 of 5 COCs
Client ID : **RTPE01** Project ID : ~~Air~~ Ashley		Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	**AIR ANALYSIS CHAIN-OF-CUSTODY**	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :	**Batch Certified**	
	Site Details:		
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : SAME AS PAGE 1	
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		
Unit 7IA-1	11/11/25	14:20	14:20	-30	-5	65	65	-30	-6.7	10771	10321	6 L	4.16	VL043048.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: 11/10/25	Canisters Received by:	Date/Time:	
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 11/12/25	B2510052 - 1
Relinquished by:	Date/Time:	Received by: JS	Date/Time: 10:53	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3627

Client Contact Information	Bottle Order ID : **B2510052**	Courier :	3 of 5 COCs
Client ID : **RTPE01** Project ID : ~~Air~~ Ashley		Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :	Individual Certified	
City : **Green Brook**	Site Details:		
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : SAME AS	
Country :	Rush (Specify): _____ **Days**	EDD Type : PAGE 1	

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~~ Ambient Temp. (F) (Start)	~~Interior~~ Ambient 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		
AA-East	11/12/25	1424	1424	-30	-3	40	47	-30	-2.7	10240	10590	6 L	4.16	VL043048.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: 11/10/25	Canisters Received by:	Date/Time:	
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 11/12/25	B2510052 - 4
Relinquished by:	Date/Time:	Received by: JB	Date/Time: 16:53	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3627

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	4 of 5 COCs
Client ID : **RTPE01** Project ID : **Air** Ashley		Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :		
	Site Details:	Batch Certified	
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	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		
Unit 8 -SS-1	11/12/25	1434	1534	-30	-8	70	70	-30	-11.2	10712	10650	1.4 L	25	VL042492.D ~~VL042225.D~~ SY	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 : Yes

Canisters Shiped by: Sean	Date/Time: 11/10/25	Canisters Received by:	Date/Time:	
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 11/12/25	B2510051 - 7
Relinquished by:	Date/Time:	Received by: YS	Date/Time: 16:53	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3627

Client Contact Information	Bottle Order ID : **B2510051**	Courier :	5 of 5 COCs
Client ID : **RTPE01**	Project ID : ~~XXX~~ Ashley	Sampler Name(s) :	Analysis / Matrix
Customer Name : **RTP Environmental**	Project Manager : **David gabel**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **239 US Highway 22 East**	Phone Number : **732-968-9600**		
	Fax Number :	Batch Certified	
	Site Details: Ashley		
City : **Green Brook**			
State : **NJ**	Analysis Turnaround Time		
Zip Code : **08812**	Standard : **10 business days** **OR**	Data Package Type : Same as page 1	
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		
Unit 7-5G1	11/12/25	1443	1543	-30	-6	70	70	-30	-10.4	10213	10793	1.4 L	25	VL042492.D ~~VL042225.D~~ SY	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 : Yes

Canisters Shiped by: Sean	Date/Time: 11/10/25	Canisters Received by:	Date/Time:	**B2510051 - 11**
Samples Relinquished by:	Date/Time:	Received by:	Date/Time: 11/12/25	
Relinquished by:	Date/Time:	Received by: YS	Date/Time: 16:53	

From: Chris Wolski <cwolski@rtpenv.com>
Sent: Thursday, November 13, 2025 10:38 AM
To: Deepak Parmar
Cc: David Gabel
Subject: RE: Missing all information on tag

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

Secured by Check Point

Good Morning,

Sorry it was missed, but you have permission to fill in information on the tag….

Sample ID: Unit7-SS-1
Client: RTP Environmental
Project Name: Ashley
Sample Date : 11/12/25
Sample Time: 15:43
Analysis: TO-15

If need anything else, please done hesitate to ask.

Chris Wolski

RTP Environmental Associates Inc
239 US Route 22 East, Suite 308
Green Brook, NJ 08812
Office: 732.968.9600
Fax: 732.968.5279

Please consider the environment before printing this e-mail

Note: This message originates from RTP Environmental Associates, Inc. It contains information that may be confidential or privileged and is intended only for the individual or entity named above. It is prohibited for anyone else to disclose, copy, distribute, or use the contents of this message. All personal messages express views solely of the sender, which are not to be attributed to RTP Environmental, and may not be copied or distributed without this disclaimer. If you received this message in error, please notify the sender at once at: cwolski@rtpenv.com or Chris Wolski @ 732-968-9600.

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Thursday, November 13, 2025 10:28 AM
To: Chris Wolski <cwolski@rtpenv.com>
Subject: Missing all information on tag

good morning,

Can ID 10793 missing all tag information.

Thanks & Regards,

Deepak Parmar
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900

Direct: 908-728-3154

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

www.alliancetg.com

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

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

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

Laboratory: Chemtech
NAME:
Field Sample Seal No.: Q3627
Case No.: Ashley

Location: 284 Sheffield Street, Mountainside, NJ 7092
Title: Sample Custodian
Date Broken: 11/12/2025
Military Time Seal Broken: 16:53:00
Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3627-01	UNIT-8-IA-1		
Q3627-02	UNIT-7-IA-1		
Q3627-03	AA-East		
Q3627-04	UNIT-8-SS-1		
Q3627-05	UNIT-7-SS-1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
11/13/25	11:00	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	
		Signature	Signature	
		Printed Name	Printed Name	

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

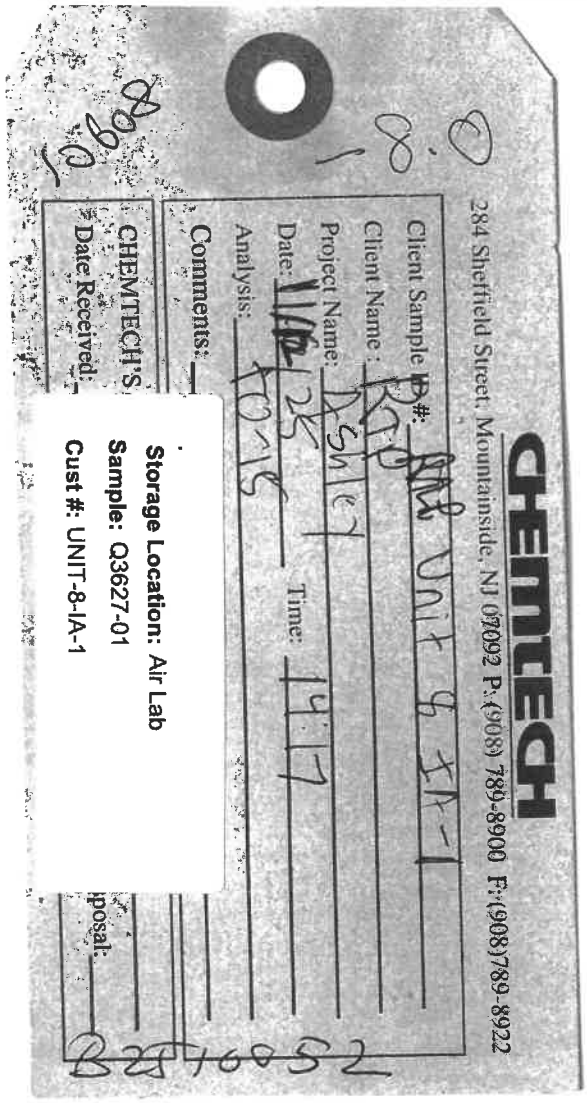
CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

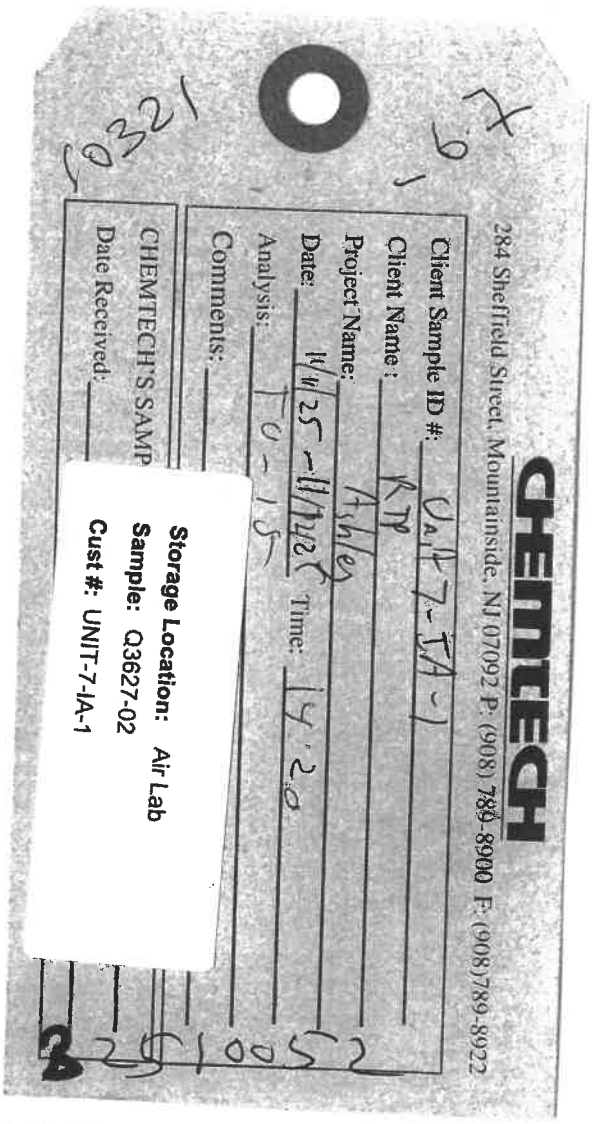
AIR SAMPLE PRESSURE & DILUTION LOGBOOK

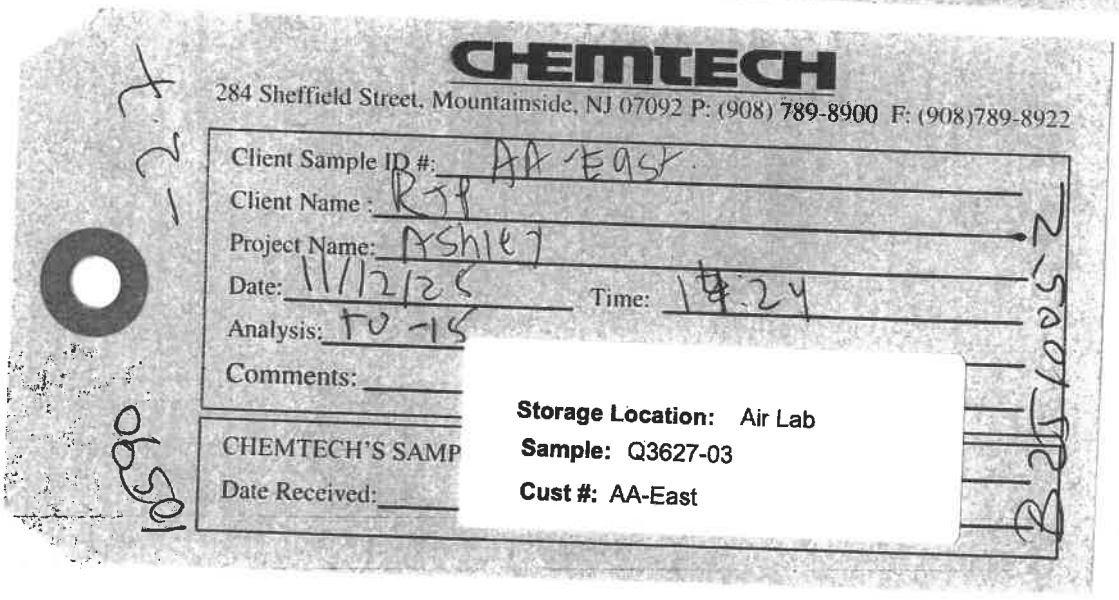
Analyst Signature: _____ Supervisor Signature: SM

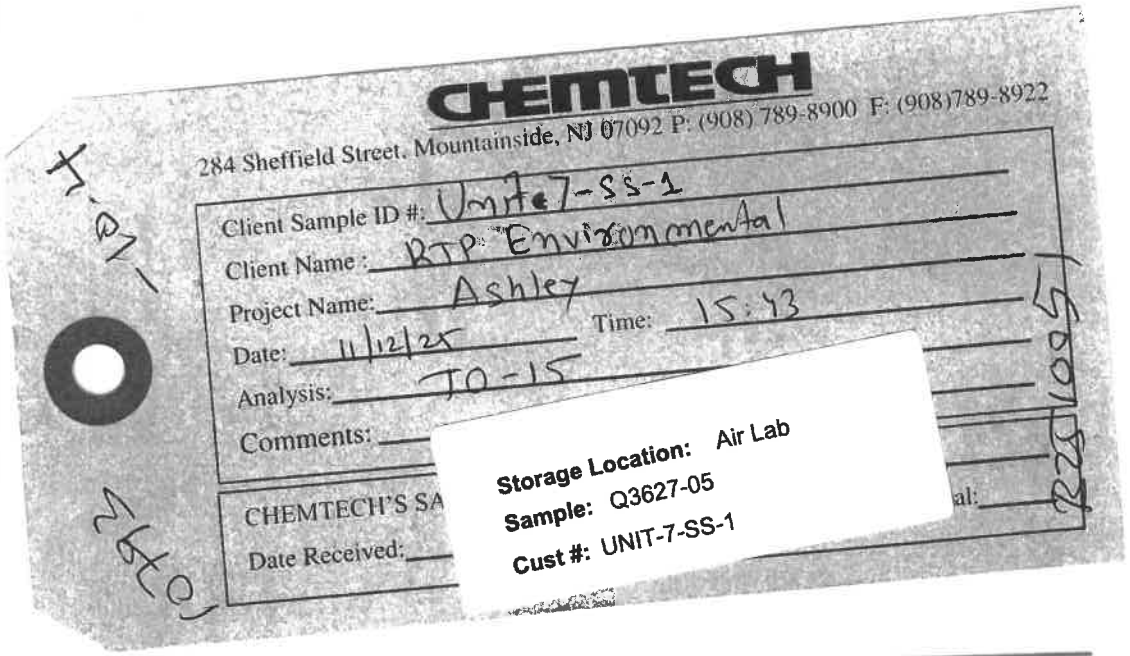
METHOD: TO-15 Pressure Gauge ID: AZ 55971

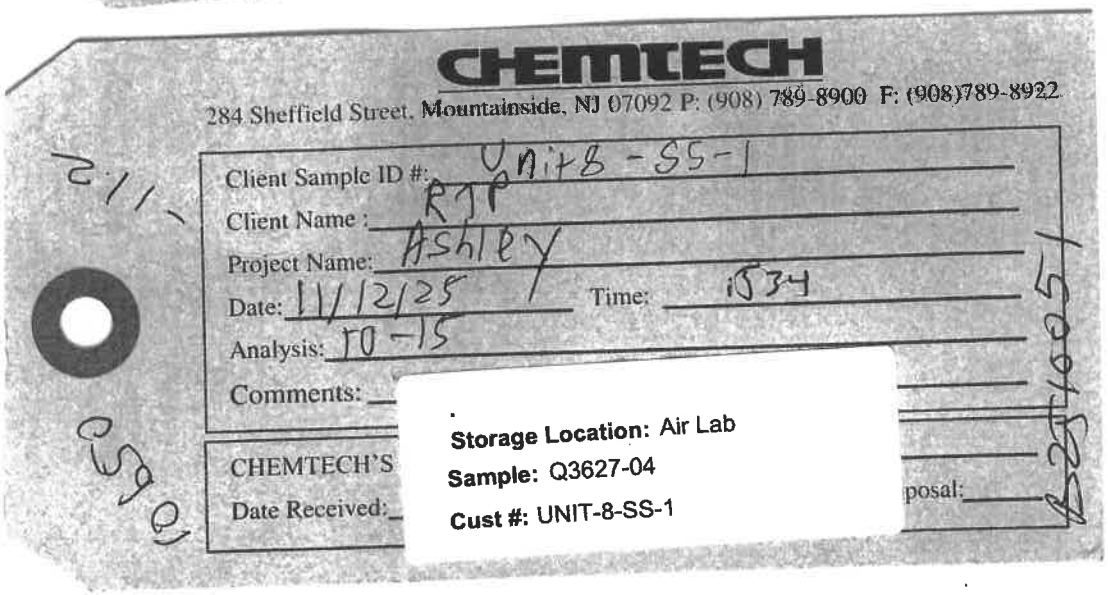
Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
11/10/25	Q3594-01	10595 ~~10595~~	13.6	-2.2				SM
11/11/25 SM	Q3626-01	10682	10.8	-8.0				SM
11/12/25	Q3626-02	10413	9.6	-10.4				
	Q3626-03	10450	10.0	-9.6				
	Q3626-04	10677	10.0	-9.6				
	Q3626-05	10464	9.8	-10.0				
	Q3626-06	10435	10.8	-8.0				
	Q3626-07	10471	9.4	-10.8				
	Q3626-08	10846	9.4	-10.8				
	Q3626-09	10673	9.4	-10.8				
	Q3626-10	10416	11.0	-7.5				
	Q3626-11	10123	9.6	-10.4				
	Q3626-12	10794	10.2	-9.2				
11/12/25	Q3627-01	10608	10.8	-8.0				
	Q3627-02	10321	11.4	-6.7				
	Q3627-03	10590	13.4	-2.7				
	Q3627-04	10650	9.2	-11.2				
	Q3627-05	10793	9.6	-10.4				


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Unit 8 IA-1
Client Name: RTP
Project Name: Ashley
Date: 11/12/25 Time: 14:17
Analysis: TO-15
Comments:
CHEMTECH'S
Date Received:
Storage Location: Air Lab
Sample: Q3627-01
Cust #: UNIT-8-IA-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Unit 7-IA-1
Client Name: RTP
Project Name: Ashley
Date: 11/12/25 Time: 14:20
Analysis: TO-15
Comments:
CHEMTECH'S SAMP
Date Received:
Storage Location: Air Lab
Sample: Q3627-02
Cust #: UNIT-7-IA-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: AA-East
Client Name: RTP
Project Name: Ashley
Date: 11/12/25 Time: 14:24
Analysis: TO-15
Comments:
CHEMTECH'S SAMP
Date Received:
Storage Location: Air Lab
Sample: Q3627-03
Cust #: AA-East


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Unit7-SS-1
Client Name: RTP Environmental
Project Name: Ashley
Date: 11/12/25
Time: 15:43
Analysis: TO-15
Comments:
CHEMTECH'S SA
Date Received:
Storage Location: Air Lab
Sample: Q3627-05
Cust #: UNIT-7-SS-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: Unit8-SS-1
Client Name: RTP
Project Name: Ashley
Date: 11/12/25
Time: 1534
Analysis: TO-15
Comments:
CHEMTECH'S
Date Received:
Storage Location: Air Lab
Sample: Q3627-04
Cust #: UNIT-8-SS-1

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

CASE NARRATIVE

RTP Environmental
Project Name: Ashley
Project # N/A
Order ID # Q3627
Test Name: TO-15

A. Number of Samples and Date of Receipt:
5 Air samples were received on 11/12/2025.

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 were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The RPD for {Q3627-02DUP} with File ID: VL043195.D met criteria except for Tetrachloroethene[28.6%] due to difference in results of original and DUP.
The Blank Spike met requirements for all compounds.
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.
Due to potential high concentration of target analytes, Samples UNIT-8-SS-1, UNIT-7-SS-1 was initially diluted.
Samples UNIT-8-SS-1, UNIT-7-SS-1 were diluted due to high concentrations.

E. Additional Comments:
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 Sample #UNIT-7-IA-1, AA-East, UNIT-8-SS-1, UNIT-7-SS-1 and UNIT-7-SS-1DL have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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

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

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel.
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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3627

	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:** 11/20/2025

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LAB CHRONICLE

OrderID:	Q3627	**OrderDate:**	11/13/2025 10:35:00 AM
Client:	RTP Environmental	**Project:**	Ashley
Contact:	David Gabel	**Location:**	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3627-01	**UNIT-8-IA-1**	**Air**			**11/12/25**			**11/12/25**
			TO-15	TO-15			11/13/25	
Q3627-02	**UNIT-7-IA-1**	**Air**			**11/11/25**			**11/12/25**
			TO-15	TO-15			11/13/25	
Q3627-03	**AA-East**	**Air**			**11/12/25**			**11/12/25**
			TO-15	TO-15			11/13/25	
Q3627-04	**UNIT-8-SS-1**	**Air**			**11/12/25**			**11/12/25**
			TO-15	TO-15			11/13/25	
Q3627-04DL	**UNIT-8-SS-1DL**	**Air**			**11/12/25**			**11/12/25**
			TO-15	TO-15			11/13/25	
Q3627-05	**UNIT-7-SS-1**	**Air**			**11/12/25**			**11/12/25**
			TO-15	TO-15			11/13/25	
Q3627-05DL	**UNIT-7-SS-1DL**	**Air**			**11/12/25**			**11/12/25**
			TO-15	TO-15			11/13/25	

Alliance TECHNICAL GROUP
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Hit Summary Sheet
SW-846

SDG No.: Q3627

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**UNIT-8-IA-1**							
Q3627-01	UNIT-8-IA-1	Air	Dichlorodifluoromethane	1.98	J	0.54	2.47	ug/m3
Q3627-01	UNIT-8-IA-1	Air	Chloromethane	0.99	J	0.21	1.03	ug/m3
Q3627-01	UNIT-8-IA-1	Air	Trichlorofluoromethane	1.57	J	0.96	2.81	ug/m3
Q3627-01	UNIT-8-IA-1	Air	Acetone	10.2		0.43	1.19	ug/m3
Q3627-01	UNIT-8-IA-1	Air	Methylene Chloride	2.12		0.80	1.74	ug/m3
Q3627-01	UNIT-8-IA-1	Air	2-Butanone	1.24	J	0.18	1.47	ug/m3
Q3627-01	UNIT-8-IA-1	Air	Carbon Tetrachloride	0.63		0.19	0.19	ug/m3
Q3627-01	UNIT-8-IA-1	Air	Chloroform	0.54	J	0.49	2.44	ug/m3
Q3627-01	UNIT-8-IA-1	Air	Benzene	0.51	J	0.26	1.60	ug/m3
Q3627-01	UNIT-8-IA-1	Air	4-Methyl-2-Pentanone	0.94	J	0.41	2.05	ug/m3
Q3627-01	UNIT-8-IA-1	Air	Toluene	0.90	J	0.60	1.88	ug/m3
Q3627-01	UNIT-8-IA-1	Air	Hexane	6.70		0.56	1.76	ug/m3
			Total Voc :	28.3				
			Total Concentration:	28.3				
Client ID:	**UNIT-7-IA-1**							
Q3627-02	UNIT-7-IA-1	Air	Dichlorodifluoromethane	2.08	J	0.54	2.47	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Chloromethane	0.91	J	0.21	1.03	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Tetrahydrofuran	0.44	J	0.24	1.47	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Trichlorofluoromethane	1.69	J	0.96	2.81	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Acetone	15.2		0.43	1.19	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Methylene Chloride	2.88		0.80	1.74	ug/m3
Q3627-02	UNIT-7-IA-1	Air	2-Butanone	1.53		0.18	1.47	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Carbon Tetrachloride	0.57		0.19	0.19	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Benzene	0.64	J	0.26	1.60	ug/m3
Q3627-02	UNIT-7-IA-1	Air	4-Methyl-2-Pentanone	5.33		0.41	2.05	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Toluene	4.15		0.60	1.88	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Tetrachloroethene	0.54		0.14	0.20	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Ethyl Benzene	1.30	J	0.83	2.17	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Styrene	2.47		0.68	2.13	ug/m3
Q3627-02	UNIT-7-IA-1	Air	Hexane	5.99		0.56	1.76	ug/m3
			Total Voc :	45.7				
			Total Concentration:	45.7				
Client ID:	**AA-East**							
Q3627-03	AA-East	Air	Dichlorodifluoromethane	2.18	J	0.54	2.47	ug/m3
Q3627-03	AA-East	Air	Chloromethane	1.16		0.21	1.03	ug/m3
Q3627-03	AA-East	Air	Trichlorofluoromethane	1.24	J	0.96	2.81	ug/m3

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Hit Summary Sheet
SW-846

SDG No.: Q3627

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3627-03	AA-East	Air	Acetone	8.31		0.43	1.19	ug/m3
Q3627-03	AA-East	Air	Methylene Chloride	2.43		0.80	1.74	ug/m3
Q3627-03	AA-East	Air	2-Butanone	0.80	J	0.18	1.47	ug/m3
Q3627-03	AA-East	Air	Carbon Tetrachloride	0.50		0.19	0.19	ug/m3
Q3627-03	AA-East	Air	Benzene	0.38	J	0.26	1.60	ug/m3
Q3627-03	AA-East	Air	Hexane	1.97		0.56	1.76	ug/m3
			Total Voc :	19.0				
			Total Concentration:	19.0				
Client ID:	**UNIT-8-SS-1**							
Q3627-04	UNIT-8-SS-1	Air	Dichlorodifluoromethane	2.52	J	1.09	4.94	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Tetrahydrofuran	1.30	J	0.47	2.95	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Trichlorofluoromethane	3.43	J	1.91	5.62	ug/m3
Q3627-04	UNIT-8-SS-1	Air	tert-Butyl alcohol	6.67		0.97	3.03	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Acetone	128	E	0.86	2.38	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Carbon Disulfide	2.86	J	0.50	3.11	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Methylene Chloride	7.64		1.60	3.47	ug/m3
Q3627-04	UNIT-8-SS-1	Air	2-Butanone	15.9		0.32	2.95	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Carbon Tetrachloride	14.5		0.31	0.38	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Chloroform	2.30	J	0.93	4.88	ug/m3
Q3627-04	UNIT-8-SS-1	Air	1,1,1-Trichloroethane	0.44		0.16	0.33	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Benzene	0.93	J	0.51	3.19	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Trichloroethene	57.0		0.27	0.32	ug/m3
Q3627-04	UNIT-8-SS-1	Air	4-Methyl-2-Pentanone	1.60	J	0.78	4.10	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Toluene	1.47	J	1.21	3.77	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Tetrachloroethene	29.8		0.20	0.41	ug/m3
Q3627-04	UNIT-8-SS-1	Air	Hexane	3.14	J	1.13	3.52	ug/m3
			Total Voc :	279				
			Total Concentration:	279				
Client ID:	**UNIT-8-SS-1DL**							
Q3627-04DL	UNIT-8-SS-1DL	Air	tert-Butyl alcohol	6.06	JD	4.85	15.2	ug/m3
Q3627-04DL	UNIT-8-SS-1DL	Air	Acetone	121	D	4.28	11.9	ug/m3
Q3627-04DL	UNIT-8-SS-1DL	Air	Methylene Chloride	13.6	JD	7.99	17.4	ug/m3
Q3627-04DL	UNIT-8-SS-1DL	Air	2-Butanone	15.0	D	1.65	14.8	ug/m3
Q3627-04DL	UNIT-8-SS-1DL	Air	Carbon Tetrachloride	14.5	D	1.57	1.89	ug/m3
Q3627-04DL	UNIT-8-SS-1DL	Air	Trichloroethene	54.3	D	1.29	1.61	ug/m3
Q3627-04DL	UNIT-8-SS-1DL	Air	Tetrachloroethene	27.8	D	1.02	2.03	ug/m3
			Total Voc :	252				
			Total Concentration:	252				

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Hit Summary Sheet
SW-846

SDG No.: Q3627

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**UNIT-7-SS-1**							
Q3627-05	UNIT-7-SS-1	Air	Dichlorodifluoromethane	2.27	J	1.09	4.94	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Chloromethane	1.61	J	0.41	2.07	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Tetrahydrofuran	2.62	J	0.47	2.95	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Trichlorofluoromethane	2.30	J	1.91	5.62	ug/m3
Q3627-05	UNIT-7-SS-1	Air	tert-Butyl alcohol	5.46		0.97	3.03	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Heptane	2.91	J	1.39	4.10	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Acetone	117	E	0.86	2.38	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Carbon Disulfide	3.74		0.50	3.11	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Methylene Chloride	4.86		1.60	3.47	ug/m3
Q3627-05	UNIT-7-SS-1	Air	2-Butanone	43.9		0.32	2.95	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Carbon Tetrachloride	2.01		0.31	0.38	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Chloroform	1.51	J	0.93	4.88	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Benzene	5.75		0.51	3.19	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Trichloroethene	1.45		0.27	0.32	ug/m3
Q3627-05	UNIT-7-SS-1	Air	4-Methyl-2-Pentanone	43.4		0.78	4.10	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Toluene	5.28		1.21	3.77	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Tetrachloroethene	70.5		0.20	0.41	ug/m3
Q3627-05	UNIT-7-SS-1	Air	Hexane	5.99		1.13	3.52	ug/m3
			Total Voc :	323				
			Total Concentration:	323				
Client ID:	**UNIT-7-SS-1DL**							
Q3627-05DL	UNIT-7-SS-1DL	Air	tert-Butyl alcohol	5.46	JD	4.85	15.2	ug/m3
Q3627-05DL	UNIT-7-SS-1DL	Air	Acetone	112	D	4.28	11.9	ug/m3
Q3627-05DL	UNIT-7-SS-1DL	Air	Methylene Chloride	10.8	JD	7.99	17.4	ug/m3
Q3627-05DL	UNIT-7-SS-1DL	Air	2-Butanone	41.6	D	1.65	14.8	ug/m3
Q3627-05DL	UNIT-7-SS-1DL	Air	Carbon Tetrachloride	2.20	D	1.57	1.89	ug/m3
Q3627-05DL	UNIT-7-SS-1DL	Air	Benzene	5.43	JD	2.52	16.0	ug/m3
Q3627-05DL	UNIT-7-SS-1DL	Air	Trichloroethene	1.72	D	1.29	1.61	ug/m3
Q3627-05DL	UNIT-7-SS-1DL	Air	4-Methyl-2-Pentanone	32.0	D	3.98	20.5	ug/m3
Q3627-05DL	UNIT-7-SS-1DL	Air	Tetrachloroethene	62.4	D	1.02	2.03	ug/m3
			Total Voc :	274				
			Total Concentration:	274				

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Project : Ashley
Field Id Number : UNIT-8-IA-1
Laboratory Id Number : Q3627-01

Sampling Date : 11/12/25
Analysis Date : 11/13/25
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	0.4	J	1.98		
Chloromethane	74-87-3	50.49	0.48	J	0.99		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
Trichlorofluoromethane	75-69-4	137.4	0.28	J	1.57		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.17	U	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	4.3		10.2		
Carbon Disulfide	75-15-0	76.14	0.08	U	0.25		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	0.61		2.12		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.42	J	1.24		
Carbon Tetrachloride	56-23-5	153.8	0.1		0.63		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.11	J	0.54		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.16	J	0.51		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.23	J	0.94		
Toluene	108-88-3	92.14	0.24	J	0.9		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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Project : Ashley **Sampling Date :** 11/12/25

Field Id Number : UNIT-8-IA-1 **Analysis Date :** 11/13/25

Laboratory Id Number : Q3627-01 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.16	U	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.01	U	0.05		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	1.9		6.7		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

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Project : Ashley

Field Id Number : UNIT-7-IA-1

Laboratory Id Number : Q3627-02

Sampling Date : 11/11/25

Analysis Date : 11/13/25

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	0.42	J	2.08		
Chloromethane	74-87-3	50.49	0.44	J	0.91		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.15	J	0.44		
Trichlorofluoromethane	75-69-4	137.4	0.3	J	1.69		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.17	U	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	6.4		15.2		
Carbon Disulfide	75-15-0	76.14	0.08	U	0.25		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	0.83		2.88		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.52		1.53		
Carbon Tetrachloride	56-23-5	153.8	0.09		0.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.2	J	0.64		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	1.3		5.33		
Toluene	108-88-3	92.14	1.1		4.15		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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Project : Ashley
Sampling Date : 11/11/25
Field Id Number : UNIT-7-IA-1
Analysis Date : 11/13/25
Laboratory Id Number : Q3627-02
Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.08		0.54		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.3	J	1.3		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.58		2.47		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.01	U	0.05		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	1.7		5.99		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

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Project : Ashley

Field Id Number : AA-East

Laboratory Id Number : Q3627-03

Sampling Date : 11/12/25

Analysis Date : 11/13/25

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.44	J	2.18		
Chloromethane	74-87-3	50.49	0.56		1.16		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.08	U	0.31		
Chloroethane	75-00-3	64.52	0.15	U	0.4		
Tetrahydrofuran	109-99-9	72.11	0.08	U	0.24		
Trichlorofluoromethane	75-69-4	137.4	0.22	J	1.24		
Dichlorotetrafluoroethane	76-14-2	170.9	0.15	U	1.05		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.14	U	1.07		
tert-Butyl alcohol	75-65-0	74.12	0.16	U	0.49		
Heptane	142-82-5	100.2	0.17	U	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	3.5		8.31		
Carbon Disulfide	75-15-0	76.14	0.08	U	0.25		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.23	U	0.83		
Methylene Chloride	75-09-2	84.94	0.7		2.43		
trans-1,2-Dichloroethene	156-60-5	96.94	0.12	U	0.48		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.27	J	0.8		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.02	U	0.11		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	U	0.65		
Benzene	71-43-2	78.11	0.12	J	0.38		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.13	U	0.6		
Bromodichloromethane	75-27-4	163.8	0.06	U	0.4		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.16	U	0.6		
t-1,3-Dichloropropene	10061-02-6	111	0.15	U	0.68		
cis-1,3-Dichloropropene	10061-01-5	111	0.11	U	0.5		
1,1,2-Trichloroethane	79-00-5	133.4	0.08	U	0.44		

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Project : Ashley
Sampling Date : 11/12/25
Field Id Number : AA-East
Analysis Date : 11/13/25
Laboratory Id Number : Q3627-03
Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.09	U	0.77		
1,2-Dibromoethane	106-93-4	187.9	0.09	U	0.69		
Tetrachloroethene	127-18-4	165.8	0.02	U	0.14		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.19	U	0.83		
m/p-Xylene	179601-23-1	106.2	0.41	U	1.78		
o-Xylene	95-47-6	106.2	0.21	U	0.91		
Styrene	100-42-5	104.1	0.16	U	0.68		
Bromoform	75-25-2	252.8	0.05	U	0.52		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.02	U	0.14		
2-Chlorotoluene	95-49-8	126.6	0.17	U	0.88		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	U	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	U	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.05	U	0.3		
1,4-Dichlorobenzene	106-46-7	147	0.13	U	0.78		
1,2-Dichlorobenzene	95-50-1	147	0.13	U	0.78		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.21	U	1.56		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.13	U	1.39		
Naphthalene	91-20-3	128.17	0.01	U	0.05		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	0.56		1.97		
Allyl Chloride	107-05-1	76.53	0.11	U	0.34		
1,4-Dioxane	123-91-1	88.12	0.22	U	0.79		
Methyl Methacrylate	80-62-6	100.117	0.14	U	0.57		

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Project : Ashley

Field Id Number : UNIT-8-SS-1

Laboratory Id Number : Q3627-04

Sampling Date : 11/12/25

Analysis Date : 11/13/25

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	J	2.52		
Chloromethane	74-87-3	50.49	0.2	U	0.41		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.44	J	1.3		
Trichlorofluoromethane	75-69-4	137.4	0.61	J	3.43		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	2.2		6.67		
Heptane	142-82-5	100.2	0.34	U	1.39		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	53.8	E	127		
Carbon Disulfide	75-15-0	76.14	0.92	J	2.86		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	2.2		7.64		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	5.4		15.9		
Carbon Tetrachloride	56-23-5	153.8	2.3		14.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.47	J	2.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.08		0.44		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	0.29	J	0.93		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	10.6		57.0		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	0.39	J	1.6		
Toluene	108-88-3	92.14	0.39	J	1.47		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : Ashley **Sampling Date :** 11/12/25

Field Id Number : UNIT-8-SS-1 **Analysis Date :** 11/13/25

Laboratory Id Number : Q3627-04 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	4.4		29.8		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	0.89	J	3.14		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

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Project : Ashley
Field Id Number : UNIT-8-SS-1DL
Laboratory Id Number : Q3627-04DL

Sampling Date : 11/12/25
Analysis Date : 11/13/25
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	1.1	UD	5.44		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.25	UD	0.64		
Bromomethane	74-83-9	94.94	0.77	UD	2.99		
Chloroethane	75-00-3	64.52	1.5	UD	3.96		
Tetrahydrofuran	109-99-9	72.11	0.8	UD	2.36		
Trichlorofluoromethane	75-69-4	137.4	1.7	UD	9.55		
Dichlorotetrafluoroethane	76-14-2	170.9	1.5	UD	10.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.4	UD	10.7		
tert-Butyl alcohol	75-65-0	74.12	2	JD	6.06		
Heptane	142-82-5	100.2	1.7	UD	6.97		
1,1-Dichloroethene	75-35-4	96.94	1.5	UD	5.95		
Acetone	67-64-1	58.08	50.8	D	120		
Carbon Disulfide	75-15-0	76.14	0.8	UD	2.49		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.3	UD	8.29		
Methylene Chloride	75-09-2	84.94	3.9	JD	13.6		
trans-1,2-Dichloroethene	156-60-5	96.94	1.2	UD	4.76		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	5.1	D	15.0		
Carbon Tetrachloride	56-23-5	153.8	2.3	D	14.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.99	UD	3.93		
Chloroform	67-66-3	119.4	0.96	UD	4.69		
1,1,1-Trichloroethane	71-55-6	133.4	0.16	UD	0.87		
2,2,4-Trimethylpentane	540-84-1	114.2	1.4	UD	6.54		
Benzene	71-43-2	78.11	0.79	UD	2.52		
1,2-Dichloroethane	107-06-2	98.96	0.93	UD	3.76		
Trichloroethene	79-01-6	131.4	10.1	D	54.3		
1,2-Dichloropropane	78-87-5	113	1.3	UD	6.01		
Bromodichloromethane	75-27-4	163.8	0.63	UD	4.22		
4-Methyl-2-Pentanone	108-10-1	100.2	0.97	UD	3.98		
Toluene	108-88-3	92.14	1.6	UD	6.03		
t-1,3-Dichloropropene	10061-02-6	111	1.5	UD	6.81		
cis-1,3-Dichloropropene	10061-01-5	111	1.1	UD	4.99		
1,1,2-Trichloroethane	79-00-5	133.4	0.81	UD	4.42		

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Project : Ashley **Sampling Date :** 11/12/25

Field Id Number : UNIT-8-SS-1DL **Analysis Date :** 11/13/25

Laboratory Id Number : Q3627-04DL **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.85	UD	7.24		
1,2-Dibromoethane	106-93-4	187.9	0.85	UD	6.53		
Tetrachloroethene	127-18-4	165.8	4.1	D	27.8		
Chlorobenzene	108-90-7	112.6	0.77	UD	3.55		
Ethyl Benzene	100-41-4	106.2	1.9	UD	8.25		
m/p-Xylene	179601-23-1	106.2	4.1	UD	17.8		
o-Xylene	95-47-6	106.2	2.1	UD	9.12		
Styrene	100-42-5	104.1	1.6	UD	6.81		
Bromoform	75-25-2	252.8	0.48	UD	4.96		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.18	UD	1.24		
2-Chlorotoluene	95-49-8	126.6	1.7	UD	8.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.8	UD	8.85		
1,2,4-Trimethylbenzene	95-63-6	120.2	1.8	UD	8.85		
1,3-Dichlorobenzene	541-73-1	147	0.54	UD	3.25		
1,4-Dichlorobenzene	106-46-7	147	1.3	UD	7.82		
1,2-Dichlorobenzene	95-50-1	147	1.3	UD	7.82		
1,2,4-Trichlorobenzene	120-82-1	181.5	2.1	UD	15.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.3	UD	13.9		
Naphthalene	91-20-3	128.17	0.13	UD	0.68		
1,3-Butadiene	106-99-0	54.09	0.51	UD	1.13		
4-Ethyltoluene	622-96-8	120.2	2.1	UD	10.3		
Hexane	110-54-3	86.17	1.6	UD	5.64		
Allyl Chloride	107-05-1	76.53	1.1	UD	3.44		
1,4-Dioxane	123-91-1	88.12	2.2	UD	7.93		
Methyl Methacrylate	80-62-6	100.117	1.4	UD	5.73		

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Project : Ashley

Field Id Number : UNIT-7-SS-1

Laboratory Id Number : Q3627-05

Sampling Date : 11/12/25

Analysis Date : 11/13/25

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.46	J	2.27		
Chloromethane	74-87-3	50.49	0.78	J	1.61		
Vinyl Chloride	75-01-4	62.5	0.05	U	0.13		
Bromomethane	74-83-9	94.94	0.15	U	0.58		
Chloroethane	75-00-3	64.52	0.3	U	0.79		
Tetrahydrofuran	109-99-9	72.11	0.89	J	2.62		
Trichlorofluoromethane	75-69-4	137.4	0.41	J	2.3		
Dichlorotetrafluoroethane	76-14-2	170.9	0.3	U	2.1		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.28	U	2.15		
tert-Butyl alcohol	75-65-0	74.12	1.8		5.46		
Heptane	142-82-5	100.2	0.71	J	2.91		
1,1-Dichloroethene	75-35-4	96.94	0.3	U	1.19		
Acetone	67-64-1	58.08	49.4	E	117		
Carbon Disulfide	75-15-0	76.14	1.2		3.74		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.46	U	1.66		
Methylene Chloride	75-09-2	84.94	1.4		4.86		
trans-1,2-Dichloroethene	156-60-5	96.94	0.24	U	0.95		
1,1-Dichloroethane	75-34-3	98.96	0.26	U	1.05		
Cyclohexane	110-82-7	84.16	0.44	U	1.51		
2-Butanone	78-93-3	72.11	14.9		43.9		
Carbon Tetrachloride	56-23-5	153.8	0.32		2.01		
cis-1,2-Dichloroethene	156-59-2	96.94	0.2	U	0.79		
Chloroform	67-66-3	119.4	0.31	J	1.51		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.28	U	1.31		
Benzene	71-43-2	78.11	1.8		5.75		
1,2-Dichloroethane	107-06-2	98.96	0.19	U	0.77		
Trichloroethene	79-01-6	131.4	0.27		1.45		
1,2-Dichloropropane	78-87-5	113	0.26	U	1.2		
Bromodichloromethane	75-27-4	163.8	0.13	U	0.87		
4-Methyl-2-Pentanone	108-10-1	100.2	10.6		43.4		
Toluene	108-88-3	92.14	1.4		5.28		
t-1,3-Dichloropropene	10061-02-6	111	0.3	U	1.36		
cis-1,3-Dichloropropene	10061-01-5	111	0.22	U	1		
1,1,2-Trichloroethane	79-00-5	133.4	0.16	U	0.87		

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Project : Ashley **Sampling Date :** 11/12/25

Field Id Number : UNIT-7-SS-1 **Analysis Date :** 11/13/25

Laboratory Id Number : Q3627-05 **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.17	U	1.45		
1,2-Dibromoethane	106-93-4	187.9	0.17	U	1.31		
Tetrachloroethene	127-18-4	165.8	10.4		70.5		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.38	U	1.65		
m/p-Xylene	179601-23-1	106.2	0.82	U	3.56		
o-Xylene	95-47-6	106.2	0.42	U	1.82		
Styrene	100-42-5	104.1	0.32	U	1.36		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	U	0.27		
2-Chlorotoluene	95-49-8	126.6	0.34	U	1.76		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.36	U	1.77		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.36	U	1.77		
1,3-Dichlorobenzene	541-73-1	147	0.11	U	0.66		
1,4-Dichlorobenzene	106-46-7	147	0.26	U	1.56		
1,2-Dichlorobenzene	95-50-1	147	0.26	U	1.56		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.42	U	3.12		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.26	U	2.77		
Naphthalene	91-20-3	128.17	0.03	U	0.16		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.42	U	2.06		
Hexane	110-54-3	86.17	1.7		5.99		
Allyl Chloride	107-05-1	76.53	0.22	U	0.69		
1,4-Dioxane	123-91-1	88.12	0.44	U	1.59		
Methyl Methacrylate	80-62-6	100.117	0.28	U	1.15		

Alliance TECHNICAL GROUP
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Project : Ashley
Field Id Number : UNIT-7-SS-1DL
Laboratory Id Number : Q3627-05DL

Sampling Date : 11/12/25
Analysis Date : 11/13/25
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	1.1	UD	5.44		
Chloromethane	74-87-3	50.49	0.98	UD	2.02		
Vinyl Chloride	75-01-4	62.5	0.25	UD	0.64		
Bromomethane	74-83-9	94.94	0.77	UD	2.99		
Chloroethane	75-00-3	64.52	1.5	UD	3.96		
Tetrahydrofuran	109-99-9	72.11	0.8	UD	2.36		
Trichlorofluoromethane	75-69-4	137.4	1.7	UD	9.55		
Dichlorotetrafluoroethane	76-14-2	170.9	1.5	UD	10.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.4	UD	10.7		
tert-Butyl alcohol	75-65-0	74.12	1.8	JD	5.46		
Heptane	142-82-5	100.2	1.7	UD	6.97		
1,1-Dichloroethene	75-35-4	96.94	1.5	UD	5.95		
Acetone	67-64-1	58.08	47.3	D	112		
Carbon Disulfide	75-15-0	76.14	0.8	UD	2.49		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.3	UD	8.29		
Methylene Chloride	75-09-2	84.94	3.1	JD	10.8		
trans-1,2-Dichloroethene	156-60-5	96.94	1.2	UD	4.76		
1,1-Dichloroethane	75-34-3	98.96	1.3	UD	5.26		
Cyclohexane	110-82-7	84.16	2.2	UD	7.57		
2-Butanone	78-93-3	72.11	14.1	D	41.6		
Carbon Tetrachloride	56-23-5	153.8	0.35	D	2.2		
cis-1,2-Dichloroethene	156-59-2	96.94	0.99	UD	3.93		
Chloroform	67-66-3	119.4	0.96	UD	4.69		
1,1,1-Trichloroethane	71-55-6	133.4	0.16	UD	0.87		
2,2,4-Trimethylpentane	540-84-1	114.2	1.4	UD	6.54		
Benzene	71-43-2	78.11	1.7	JD	5.43		
1,2-Dichloroethane	107-06-2	98.96	0.93	UD	3.76		
Trichloroethene	79-01-6	131.4	0.32	D	1.72		
1,2-Dichloropropane	78-87-5	113	1.3	UD	6.01		
Bromodichloromethane	75-27-4	163.8	0.63	UD	4.22		
4-Methyl-2-Pentanone	108-10-1	100.2	7.8	D	32.0		
Toluene	108-88-3	92.14	1.6	UD	6.03		
t-1,3-Dichloropropene	10061-02-6	111	1.5	UD	6.81		
cis-1,3-Dichloropropene	10061-01-5	111	1.1	UD	4.99		
1,1,2-Trichloroethane	79-00-5	133.4	0.81	UD	4.42		

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Project : Ashley **Sampling Date :** 11/12/25

Field Id Number : UNIT-7-SS-1DL **Analysis Date :** 11/13/25

Laboratory Id Number : Q3627-05DL **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	0.85	UD	7.24		
1,2-Dibromoethane	106-93-4	187.9	0.85	UD	6.53		
Tetrachloroethene	127-18-4	165.8	9.2	D	62.4		
Chlorobenzene	108-90-7	112.6	0.77	UD	3.55		
Ethyl Benzene	100-41-4	106.2	1.9	UD	8.25		
m/p-Xylene	179601-23-1	106.2	4.1	UD	17.8		
o-Xylene	95-47-6	106.2	2.1	UD	9.12		
Styrene	100-42-5	104.1	1.6	UD	6.81		
Bromoform	75-25-2	252.8	0.48	UD	4.96		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.18	UD	1.24		
2-Chlorotoluene	95-49-8	126.6	1.7	UD	8.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.8	UD	8.85		
1,2,4-Trimethylbenzene	95-63-6	120.2	1.8	UD	8.85		
1,3-Dichlorobenzene	541-73-1	147	0.54	UD	3.25		
1,4-Dichlorobenzene	106-46-7	147	1.3	UD	7.82		
1,2-Dichlorobenzene	95-50-1	147	1.3	UD	7.82		
1,2,4-Trichlorobenzene	120-82-1	181.5	2.1	UD	15.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.3	UD	13.9		
1,3-Butadiene	106-99-0	54.09	0.51	UD	1.13		
Naphthalene	91-20-3	128.17	0.13	UD	0.68		
4-Ethyltoluene	622-96-8	120.2	2.1	UD	10.3		
Hexane	110-54-3	86.17	1.6	UD	5.64		
Allyl Chloride	107-05-1	76.53	1.1	UD	3.44		
1,4-Dioxane	123-91-1	88.12	2.2	UD	7.93		
Methyl Methacrylate	80-62-6	100.117	1.4	UD	5.73		

Method	Matrix	Parameter	Instrument ID	Column ID	MDL (ppbv)	RL (ppbv)	MB Data	MB Datafile	StdevVal
TO-15	Air	1,1,1,2-Tetrachloroethane	MSVOA_L	RTX-1	0.089	0.50	0		0.028115408
TO-15	Air	1,1,1-Trichloroethane	MSVOA_L	RTX-1	0.016	0.030	0		0.005089672
TO-15	Air	1,1,2,2-Tetrachloroethane	MSVOA_L	RTX-1	0.018	0.030	0		0.005472877
TO-15	Air	1,1,2-Trichloroethane	MSVOA_L	RTX-1	0.081	0.50	0		0.02572751
TO-15	Air	1,1,2-Trichlorotrifluoroethane	MSVOA_L	RTX-1	0.14	0.50	0		0.042983939
TO-15	Air	1,1-Dichloroethane	MSVOA_L	RTX-1	0.13	0.50	0		0.040178175
TO-15	Air	1,1-Dichloroethene	MSVOA_L	RTX-1	0.15	0.50	0		0.047056197
TO-15	Air	1,2,4-Trichlorobenzene	MSVOA_L	RTX-1	0.21	0.50	0		0.064291005
TO-15	Air	1,2,4-Trimethylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.054467115
TO-15	Air	1,2-Dibromoethane	MSVOA_L	RTX-1	0.085	0.10	0		0.026726124
TO-15	Air	1,2-Dichlorobenzene	MSVOA_L	RTX-1	0.13	0.50	0		0.040999419
TO-15	Air	1,2-Dichloroethane	MSVOA_L	RTX-1	0.093	0.50	0		0.029277002
TO-15	Air	1,2-Dichloropropane	MSVOA_L	RTX-1	0.13	0.50	0		0.039880775
TO-15	Air	1,3,5-Trimethylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.054598099
TO-15	Air	1,3-Butadiene	MSVOA_L	RTX-1	0.051	0.50	0		0.016035675
TO-15	Air	1,3-Dichlorobenzene	MSVOA_L	RTX-1	0.054	0.50	0		0.017043362
TO-15	Air	1,4-Dichlorobenzene	MSVOA_L	RTX-1	0.13	0.50	0		0.039460649
TO-15	Air	1,4-Dioxane	MSVOA_L	RTX-1	0.22	0.50	0		0.067330033
TO-15	Air	2,2,4-Trimethylpentane	MSVOA_L	RTX-1	0.14	0.50	0		0.044131837
TO-15	Air	2-Butanone	MSVOA_L	RTX-1	0.056	0.50	0		0.017728105
TO-15	Air	2-Chlorotoluene	MSVOA_L	RTX-1	0.17	0.50	0		0.052599113
TO-15	Air	2-Hexanone	MSVOA_L	RTX-1	0.11	0.50	0		0.033523268
TO-15	Air	4-Ethyltoluene	MSVOA_L	RTX-1	0.21	0.50	0		0.066332496
TO-15	Air	4-Methyl-2-Pentanone	MSVOA_L	RTX-1	0.097	0.50	0		0.030783422
TO-15	Air	Acetone	MSVOA_L	RTX-1	0.18	0.50	0		0.055592052
TO-15	Air	Allyl Chloride	MSVOA_L	RTX-1	0.11	0.50	0		0.033380918
TO-15	Air	Benzene	MSVOA_L	RTX-1	0.079	0.50	0		0.025071327
TO-15	Air	Benzyl Chloride	MSVOA_L	RTX-1	0.089	0.50	0		0.028284271
TO-15	Air	Bromodichloromethane	MSVOA_L	RTX-1	0.063	0.50	0		0.019880596
TO-15	Air	Bromoethene	MSVOA_L	RTX-1	0.2	0.50	0		0.062678317
TO-15	Air	Bromoform	MSVOA_L	RTX-1	0.048	0.50	0		0.015118579
TO-15	Air	Bromomethane	MSVOA_L	RTX-1	0.077	0.50	0		0.024494897
TO-15	Air	Carbon Disulfide	MSVOA_L	RTX-1	0.08	0.50	0		0.02544836
TO-15	Air	Carbon Tetrachloride	MSVOA_L	RTX-1	0.025	0.030	0		0.007690439
TO-15	Air	Chlorobenzene	MSVOA_L	RTX-1	0.077	0.50	0		0.024397502
TO-15	Air	Chlorodifluoromethane	MSVOA_L	RTX-1	0.12	0.50	0		0.037859389
TO-15	Air	Chloroethane	MSVOA_L	RTX-1	0.15	0.50	0		0.045250625
TO-15	Air	Chloroform	MSVOA_L	RTX-1	0.096	0.50	0		0.030394235
TO-15	Air	Chloromethane	MSVOA_L	RTX-1	0.098	0.50	0		0.03101459
TO-15	Air	cis-1,2-Dichloroethene	MSVOA_L	RTX-1	0.099	0.50	0		0.031471832
TO-15	Air	cis-1,3-Dichloropropene	MSVOA_L	RTX-1	0.11	0.50	0		0.032071349
TO-15	Air	Cyclohexane	MSVOA_L	RTX-1	0.22	0.50	0		0.06972736
TO-15	Air	Dibromochloromethane	MSVOA_L	RTX-1	0.085	0.50	0		0.026726124
TO-15	Air	Dichlorodifluoromethane	MSVOA_L	RTX-1	0.11	0.50	0		0.033380918
TO-15	Air	Dichlorotetrafluoroethane	MSVOA_L	RTX-1	0.15	0.50	0		0.045460606
TO-15	Air	Ethanol	MSVOA_L	RTX-1	0.32	0.50	0		0.098848128
TO-15	Air	Ethyl Acetate	MSVOA_L	RTX-1	0.12	0.50	0		0.036384193
TO-15	Air	Ethyl Benzene	MSVOA_L	RTX-1	0.19	0.50	0		0.058554004
TO-15	Air	Heptane	MSVOA_L	RTX-1	0.17	0.50	0		0.051130086
TO-15	Air	Hexachloro-1,3-Butadiene	MSVOA_L	RTX-1	0.13	0.50	0		0.038297084
TO-15	Air	Hexane	MSVOA_L	RTX-1	0.16	0.50	0		0.04894117
TO-15	Air	Isopropyl Alcohol	MSVOA_L	RTX-1	0.23	0.50	0		0.070676998
TO-15	Air	Isopropylbenzene	MSVOA_L	RTX-1	0.16	0.50	0		0.048205908
TO-15	Air	m/p-Xylene	MSVOA_L	RTX-1	0.41	1.00	0		0.130091543
TO-15	Air	Methyl Methacrylate	MSVOA_L	RTX-1	0.14	0.50	0		0.044131837
TO-15	Air	Methyl tert-Butyl Ether	MSVOA_L	RTX-1	0.23	0.50	0		0.07296444
TO-15	Air	Methylene Chloride	MSVOA_L	RTX-1	0.23	0.50	0		0.07204496
TO-15	Air	Naphthalene	MSVOA_L	RTX-1	0.013	0.10	0		0.004076647
TO-15	Air	Naphthalene,2-methyl-	MSVOA_L	RTX-1	0.22	0.50	0		0.069213266
TO-15	Air	n-Butylbenzene	MSVOA_L	RTX-1	0.18	0.50	0		0.055805786
TO-15	Air	n-propylbenzene	MSVOA_L	RTX-1	0.2	0.50	0		0.06164414
TO-15	Air	o-Xylene	MSVOA_L	RTX-1	0.21	0.50	0		0.06491753
TO-15	Air	p-Isopropyltoluene	MSVOA_L	RTX-1	0.19	0.50	0		0.059561893
TO-15	Air	Propene	MSVOA_L	RTX-1	0.077	0.50	0		0.024397502
TO-15	Air	sec-Butylbenzene	MSVOA_L	RTX-1	0.2	0.50	0		0.061913919
TO-15	Air	Styrene	MSVOA_L	RTX-1	0.16	0.50	0		0.05
TO-15	Air	t-1,3-Dichloropropene	MSVOA_L	RTX-1	0.15	0.50	0		0.046496288
TO-15	Air	tert-Butyl alcohol	MSVOA_L	RTX-1	0.16	0.50	0		0.048892496
TO-15	Air	tert-Butylbenzene	MSVOA_L	RTX-1	0.22	0.50	0		0.067928534
TO-15	Air	Tetrachloroethene	MSVOA_L	RTX-1	0.015	0.030	0		0.004725816
TO-15	Air	Tetrahydrofuran	MSVOA_L	RTX-1	0.08	0.50	0		0.025166115
TO-15	Air	Toluene	MSVOA_L	RTX-1	0.16	0.50	0		0.050142654
TO-15	Air	trans-1,2-Dichloroethene	MSVOA_L	RTX-1	0.12	0.50	0		0.036968455
TO-15	Air	Trichloroethene	MSVOA_L	RTX-1	0.024	0.030	0		0.007587584
TO-15	Air	Trichlorofluoromethane	MSVOA_L	RTX-1	0.17	0.50	0		0.053452248
TO-15	Air	Vinyl Acetate	MSVOA_L	RTX-1	0.26	0.50	0		0.079671946
TO-15	Air	Vinyl Chloride	MSVOA_L	RTX-1	0.025	0.030	0		0.007955232

Students Value	Spike_Amt_Added	Datafile1	Concentration1	Adate1	Datafile2	Concentration2	Adate2
3.143	0.4	VL041877.D	0.48	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.03	VL041883.D	0.037	01102025T00:17:00	VL041884.D	0.04	01102025T00:47:00
3.143	0.03	VL041883.D	0.045	01102025T00:17:00	VL041884.D	0.04	01102025T00:47:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.52	01092025T21:46:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.54	01092025T21:46:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.51	01092025T21:46:00
3.143	0.4	VL041877.D	0.5	01092025T21:16:00	VL041878.D	0.53	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.43	01092025T21:46:00
3.143	0.4	VL041877.D	0.48	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.52	01092025T21:16:00	VL041878.D	0.51	01092025T21:46:00
3.143	0.4	VL041877.D	0.52	01092025T21:16:00	VL041878.D	0.54	01092025T21:46:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.49	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.44	01092025T21:46:00
3.143	0.4	VL041877.D	0.52	01092025T21:16:00	VL041878.D	0.54	01092025T21:46:00
3.143	0.4	VL041877.D	0.49	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.48	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.49	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.41	01092025T21:16:00	VL041878.D	0.38	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.44	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.43	01092025T21:46:00
3.143	0.4	VL041877.D	0.6	01092025T21:16:00	VL041878.D	0.62	01092025T21:46:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.51	01092025T21:46:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.31	01092025T21:16:00	VL041878.D	0.29	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.44	01092025T21:46:00
3.143	0.4	VL041877.D	0.49	01092025T21:16:00	VL041878.D	0.53	01092025T21:46:00
3.143	0.4	VL041877.D	0.36	01092025T21:16:00	VL041878.D	0.35	01092025T21:46:00
3.143	0.4	VL041877.D	0.49	01092025T21:16:00	VL041878.D	0.52	01092025T21:46:00
3.143	0.4	VL041877.D	0.41	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.03	VL041883.D	0.036	01102025T00:17:00	VL041884.D	0.038	01102025T00:47:00
3.143	0.4	VL041877.D	0.5	01092025T21:16:00	VL041878.D	0.48	01092025T21:46:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.57	01092025T21:16:00	VL041878.D	0.59	01092025T21:46:00
3.143	0.4	VL041877.D	0.51	01092025T21:16:00	VL041878.D	0.5	01092025T21:46:00
3.143	0.4	VL041877.D	0.54	01092025T21:16:00	VL041878.D	0.51	01092025T21:46:00
3.143	0.4	VL041877.D	0.48	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.41	01092025T21:16:00	VL041878.D	0.4	01092025T21:46:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.39	01092025T21:16:00	VL041878.D	0.4	01092025T21:46:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.51	01092025T21:46:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.52	01092025T21:46:00
3.143	0.4	VL042501.D	0.885	05062025T17:36:00	VL042502.D	0.76	05062025T18:07:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.43	01092025T21:16:00	VL041878.D	0.44	01092025T21:46:00
3.143	0.4	VL041877.D	0.43	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.49	01092025T21:16:00	VL041878.D	0.5	01092025T21:46:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.59	01092025T21:16:00	VL041878.D	0.6	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.91	01092025T21:16:00	VL041878.D	0.91	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.41	01092025T21:46:00
3.143	0.4	VL041877.D	0.4	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.4	VL041877.D	0.68	01092025T21:16:00	VL041878.D	0.61	01092025T21:46:00
3.143	0.04	VL042504.D	0.035	05062025T19:10:00	VL042505.D	0.04	05062025T19:42:00
3.143	0.4	VL041877.D	0.34	01092025T21:16:00	VL041878.D	0.34	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.43	01092025T21:46:00
3.143	0.4	VL041877.D	0.44	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.44	01092025T21:46:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.48	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.4	VL041877.D	0.42	01092025T21:16:00	VL041878.D	0.4	01092025T21:46:00
3.143	0.4	VL041877.D	0.41	01092025T21:16:00	VL041878.D	0.36	01092025T21:46:00
3.143	0.4	VL041877.D	0.5	01092025T21:16:00	VL041878.D	0.45	01092025T21:46:00
3.143	0.4	VL041877.D	0.46	01092025T21:16:00	VL041878.D	0.46	01092025T21:46:00
3.143	0.03	VL041883.D	0.037	01102025T00:17:00	VL041884.D	0.04	01102025T00:47:00
3.143	0.4	VL041877.D	0.47	01092025T21:16:00	VL041878.D	0.43	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.43	01092025T21:46:00
3.143	0.4	VL041877.D	0.45	01092025T21:16:00	VL041878.D	0.52	01092025T21:46:00
3.143	0.03	VL041883.D	0.047	01102025T00:17:00	VL041884.D	0.047	01102025T00:47:00
3.143	0.4	VL041877.D	0.53	01092025T21:16:00	VL041878.D	0.52	01092025T21:46:00
3.143	0.4	VL041877.D	0.43	01092025T21:16:00	VL041878.D	0.47	01092025T21:46:00
3.143	0.03	VL042498.D	0.018	05062025T16:01:00	VL042500.D	0.032	05062025T17:04:00

Datafile3	Concentration3	Adate3	Datafile4	Concentration4	Adate4	Datafile5	Concentration5
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.4
VL041885.D	0.038	01102025T01:18:00	VL041913.D	0.033	01152025T02:53:00	VL041914.D	0.037
VL041885.D	0.044	01102025T01:18:00	VL041913.D	0.033	01152025T02:53:00	VL041914.D	0.032
VL041879.D	0.48	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.55	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.57	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.48
VL041879.D	0.58	01092025T22:17:00	VL041909.D	0.49	01152025T00:52:00	VL041910.D	0.49
VL041879.D	0.48	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.39
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.43
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.43
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.46
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.43	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.51
VL041879.D	0.48	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.44
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.43	01152025T00:52:00	VL041910.D	0.41
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.39
VL041879.D	0.49	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.44
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.39	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.33
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.39	01152025T00:52:00	VL041910.D	0.37
VL041879.D	0.68	01092025T22:17:00	VL041909.D	0.53	01152025T00:52:00	VL041910.D	0.53
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.41
VL041879.D	0.28	01092025T22:17:00	VL041909.D	0.26	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.4	01152025T00:52:00	VL041910.D	0.4
VL041879.D	0.55	01092025T22:17:00	VL041909.D	0.44	01152025T00:52:00	VL041910.D	0.52
VL041879.D	0.37	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.41	01152025T00:52:00	VL041910.D	0.4
VL041885.D	0.048	01102025T01:18:00	VL041913.D	0.026	01152025T02:53:00	VL041914.D	0.033
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.46
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.46
VL041879.D	0.53	01092025T22:17:00	VL041909.D	0.52	01152025T00:52:00	VL041910.D	0.45
VL041879.D	0.49	01092025T22:17:00	VL041909.D	0.43	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.38	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.5	01092025T22:17:00	VL041909.D	0.35	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.41	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.56	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.56	01092025T22:17:00	VL041909.D	0.46	01152025T00:52:00	VL041910.D	0.46
VL042503.D	0.611	05062025T18:39:00	VL042518.D	0.831	05072025T15:02:00	VL042519.D	0.842
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.41	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.37
VL041879.D	0.51	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.43
VL041879.D	0.49	01092025T22:17:00	VL041909.D	0.42	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.63	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.5
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.38
VL041879.D	0.92	01092025T22:17:00	VL041909.D	0.72	01152025T00:52:00	VL041910.D	0.69
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.42	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.52
VL041879.D	0.63	01092025T22:17:00	VL041909.D	0.54	01152025T00:52:00	VL041910.D	0.57
VL042506.D	0.04	05062025T20:13:00	VL042521.D	0.031	05072025T16:49:00	VL042522.D	0.032
VL041879.D	0.33	01092025T22:17:00	VL041909.D	0.28	01152025T00:52:00	VL041910.D	0.25
VL041879.D	0.42	01092025T22:17:00	VL041909.D	0.33	01152025T00:52:00	VL041910.D	0.34
VL041879.D	0.43	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.33
VL041879.D	0.47	01092025T22:17:00	VL041909.D	0.35	01152025T00:52:00	VL041910.D	0.35
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.5	01152025T00:52:00	VL041910.D	0.48
VL041879.D	0.45	01092025T22:17:00	VL041909.D	0.38	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.38	01092025T22:17:00	VL041909.D	0.34	01152025T00:52:00	VL041910.D	0.31
VL041879.D	0.38	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.33
VL041879.D	0.52	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.41
VL041879.D	0.46	01092025T22:17:00	VL041909.D	0.36	01152025T00:52:00	VL041910.D	0.37
VL041885.D	0.034	01102025T01:18:00	VL041913.D	0.037	01152025T02:53:00	VL041914.D	0.034
VL041879.D	0.41	01092025T22:17:00	VL041909.D	0.41	01152025T00:52:00	VL041910.D	0.42
VL041879.D	0.44	01092025T22:17:00	VL041909.D	0.37	01152025T00:52:00	VL041910.D	0.36
VL041879.D	0.54	01092025T22:17:00	VL041909.D	0.47	01152025T00:52:00	VL041910.D	0.48
VL041885.D	0.035	01102025T01:18:00	VL041913.D	0.029	01152025T02:53:00	VL041914.D	0.033
VL041879.D	0.54	01092025T22:17:00	VL041909.D	0.45	01152025T00:52:00	VL041910.D	0.47
VL041879.D	0.56	01092025T22:17:00	VL041909.D	0.35	01152025T00:52:00	VL041910.D	0.44
VL042515.D	0.021	05072025T13:17:00	VL042516.D	0.021	05072025T13:50:00	VL042517.D	0.014

Adate5	Datafile6	Concentration6	Adate6	Datafile7	Concentration7	Adate7	Department
01152025T01:23:00	VL041932.D	0.41	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.028	01212025T00:31:00	VL041940.D	0.027	01212025T09:44:00	VOC
01152025T03:23:00	VL041936.D	0.034	01212025T00:31:00	VL041940.D	0.034	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.44	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.4	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.49	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.49	01202025T22:30:00	VL041933.D	0.52	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.45	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.41	01202025T22:30:00	VL041933.D	0.37	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.46	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.36	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.31	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.38	01202025T22:30:00	VL041933.D	0.37	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.58	01202025T22:30:00	VL041933.D	0.54	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.43	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.29	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.42	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.39	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.47	01202025T22:30:00	VL041933.D	0.52	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.38	01202025T22:30:00	VL041933.D	0.38	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.029	01212025T00:31:00	VL041940.D	0.027	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.51	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.52	01202025T22:30:00	VL041933.D	0.49	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.47	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.35	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.37	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.38	01202025T22:30:00	VL041933.D	0.36	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.48	01202025T22:30:00	VL041933.D	0.51	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.45	01202025T22:30:00	VL041933.D	0.45	01202025T23:00:00	VOC
05072025T15:37:00	VL042520.D	0.766	05072025T16:13:00	VL042569.D	0.664	05212025T16:53:00	VOC
01152025T01:23:00	VL041932.D	0.39	01202025T22:30:00	VL041933.D	0.4	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.32	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.37	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.44	01202025T22:30:00	VL041933.D	0.43	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.4	01202025T22:30:00	VL041933.D	0.36	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.46	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.36	01202025T22:30:00	VL041933.D	0.35	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.64	01202025T22:30:00	VL041933.D	0.65	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.35	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
05072025T17:24:00	VL042523.D	0.03	05072025T17:58:00	VL042567.D	0.034	05212025T15:49:00	VOC
01152025T01:23:00	VL041932.D	0.2	01202025T22:30:00	VL041933.D	0.17	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.31	01202025T22:30:00	VL041933.D	0.33	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.32	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.32	01202025T22:30:00	VL041933.D	0.32	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.5	01202025T22:30:00	VL041933.D	0.48	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.3	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.27	01202025T22:30:00	VL041933.D	0.31	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.44	01202025T22:30:00	VL041933.D	0.38	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.3	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.026	01212025T00:31:00	VL041940.D	0.03	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.39	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.34	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.46	01202025T22:30:00	VL041933.D	0.44	01202025T23:00:00	VOC
01152025T03:23:00	VL041936.D	0.033	01212025T00:31:00	VL041940.D	0.03	01212025T09:44:00	VOC
01152025T01:23:00	VL041932.D	0.42	01202025T22:30:00	VL041933.D	0.41	01202025T23:00:00	VOC
01152025T01:23:00	VL041932.D	0.33	01202025T22:30:00	VL041933.D	0.37	01202025T23:00:00	VOC
05072025T14:29:00	VL042575.D	0.034	05222025T11:27:00	VL042576.D	0.032	05222025T11:59:00	VOC

AVG Concentration	Recovery	Effective Date
0.43	108	5/22/2025
0.03	114	5/22/2025
0.04	125	5/22/2025
0.47	119	5/22/2025
0.50	125	5/22/2025
0.50	125	5/22/2025
0.50	125	5/22/2025
0.40	100	5/22/2025
0.40	100	5/22/2025
0.45	112	5/22/2025
0.48	120	5/22/2025
0.49	123	5/22/2025
0.48	119	5/22/2025
0.38	95	5/22/2025
0.51	128	5/22/2025
0.46	116	5/22/2025
0.45	112	5/22/2025
0.44	110	5/22/2025
0.42	105	5/22/2025
0.46	115	5/22/2025
0.40	100	5/22/2025
0.36	91	5/22/2025
0.37	93	5/22/2025
0.40	100	5/22/2025
0.58	146	5/22/2025
0.47	118	5/22/2025
0.45	111	5/22/2025
0.30	75	5/22/2025
0.42	106	5/22/2025
0.48	119	5/22/2025
0.35	86	5/22/2025
0.50	125	5/22/2025
0.41	102	5/22/2025
0.03	113	5/22/2025
0.48	121	5/22/2025
0.47	118	5/22/2025
0.52	130	5/22/2025
0.48	121	5/22/2025
0.50	126	5/22/2025
0.44	111	5/22/2025
0.36	91	5/22/2025
0.40	101	5/22/2025
0.38	95	5/22/2025
0.50	125	5/22/2025
0.49	123	5/22/2025
0.77	191	5/22/2025
0.42	106	5/22/2025
0.38	94	5/22/2025
0.40	100	5/22/2025
0.46	115	5/22/2025
0.43	106	5/22/2025
0.53	134	5/22/2025
0.40	101	5/22/2025
0.78	194	5/22/2025
0.38	95	5/22/2025
0.40	101	5/22/2025
0.57	143	5/22/2025
0.03	86	5/22/2025
0.27	68	5/22/2025
0.37	93	5/22/2025
0.38	95	5/22/2025
0.39	97	5/22/2025
0.38	95	5/22/2025
0.50	124	5/22/2025
0.40	100	5/22/2025
0.35	88	5/22/2025
0.35	86	5/22/2025
0.45	113	5/22/2025
0.39	98	5/22/2025
0.03	113	5/22/2025
0.42	105	5/22/2025
0.39	97	5/22/2025
0.48	120	5/22/2025
0.04	121	5/22/2025
0.48	119	5/22/2025
0.42	105	5/22/2025
0.02	82	5/22/2025

QC SUMMARY

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

Surrogate Summary

SDG No.: Q3627

Client: RTP Environmental

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3627-01	UNIT-8-IA-1	1-Bromo-4-Fluorobenzene	10	9.97	100		70 (65)	130 (135)
Q3627-02	UNIT-7-IA-1	1-Bromo-4-Fluorobenzene	10	10.5	105		70 (65)	130 (135)
Q3627-02DUP	UNIT-7-IA-1DUP	1-Bromo-4-Fluorobenzene	10	10.4	104		70 (65)	130 (135)
Q3627-03	AA-East	1-Bromo-4-Fluorobenzene	10	9.60	96		70 (65)	130 (135)
Q3627-04	UNIT-8-SS-1	1-Bromo-4-Fluorobenzene	10	10.1	101		70 (65)	130 (135)
Q3627-04DL	UNIT-8-SS-1DL	1-Bromo-4-Fluorobenzene	10	9.71	97		70 (65)	130 (135)
Q3627-05	UNIT-7-SS-1	1-Bromo-4-Fluorobenzene	10	9.07	91		70 (65)	130 (135)
Q3627-05DL	UNIT-7-SS-1DL	1-Bromo-4-Fluorobenzene	10	8.78	88		70 (65)	130 (135)
VL1113ABL01	VL1113ABL01	1-Bromo-4-Fluorobenzene	10	9.60	96		70 (65)	130 (135)
VL1113ABS01	VL1113ABS01	1-Bromo-4-Fluorobenzene	10	10.2	102		70 (65)	130 (135)

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.:	**Q3627**	**Analytical Method:**	**SWTO-15**
Client:	**RTP Environmental**	**Datafile :**	VL043193.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL1113ABS01	Dichlorodifluoromethane	10	9.50	ppbv	95			40 (70)	160 (130)	
	Chloromethane	10	8.30	ppbv	83			40 (70)	160 (130)	
	Vinyl Chloride	10	8.40	ppbv	84			70 (70)	130 (130)	
	Bromomethane	10	9.50	ppbv	95			40 (70)	160 (130)	
	Chloroethane	10	8.40	ppbv	84			40 (70)	160 (130)	
	Tetrahydrofuran	10	11.1	ppbv	111			70 (70)	130 (130)	
	Trichlorofluoromethane	10	10.5	ppbv	105			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	10.1	ppbv	101			70 (70)	130 (130)	
	Dichlorotetrafluoethane	10	9.30	ppbv	93			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	8.30	ppbv	83			70 (70)	130 (130)	
	Heptane	10	9.40	ppbv	94			70 (70)	130 (130)	
	1,1-Dichloroethene	10	10.0	ppbv	100			70 (70)	130 (130)	
	Acetone	10	8.50	ppbv	85			40 (70)	160 (130)	
	Carbon disulfide	10	9.80	ppbv	98			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	8.10	ppbv	81			70 (70)	130 (130)	
	Methylene Chloride	10	8.10	ppbv	81			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	9.60	ppbv	96			70 (70)	130 (130)	
	1,1-Dichloroethane	10	9.50	ppbv	95			70 (70)	130 (130)	
	Cyclohexane	10	8.60	ppbv	86			70 (70)	130 (130)	
	2-Butanone	10	12.0	ppbv	120			40 (70)	160 (130)	
	Carbon Tetrachloride	10	11.2	ppbv	112			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	9.50	ppbv	95			70 (70)	130 (130)	
	Chloroform	10	9.80	ppbv	98			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	9.00	ppbv	90			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	11.4	ppbv	114			70 (70)	130 (130)	
	Benzene	10	11.2	ppbv	112			70 (70)	130 (130)	
	1,2-Dichloroethane	10	11.1	ppbv	111			70 (70)	130 (130)	
	Trichloroethene	10	9.90	ppbv	99			70 (70)	130 (130)	
	1,2-Dichloropropane	10	11.1	ppbv	111			70 (70)	130 (130)	
	Bromodichloromethane	10	11.5	ppbv	115			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	10.9	ppbv	109			40 (70)	160 (130)	
	Toluene	10	10.1	ppbv	101			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	9.60	ppbv	96			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	10.2	ppbv	102			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	11.2	ppbv	112			70 (70)	130 (130)	
	Dibromochloromethane	10	10.9	ppbv	109			70 (70)	130 (130)	
	1,2-Dibromoethane	10	10.6	ppbv	106			70 (70)	130 (130)	
	Tetrachloroethene	10	10.3	ppbv	103			70 (70)	130 (130)	
	Chlorobenzene	10	11.1	ppbv	111			70 (70)	130 (130)	
	Ethyl Benzene	10	10.6	ppbv	106			70 (70)	130 (130)	
	m/p-Xylene	20	22.1	ppbv	111			70 (70)	130 (130)	
	o-Xylene	10	11.0	ppbv	110			70 (70)	130 (130)	
	Styrene	10	9.90	ppbv	99			70 (70)	130 (130)	
	Bromoform	10	11.5	ppbv	115			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	11.3	ppbv	113			70 (70)	130 (130)	
	2-Chlorotoluene	10	10.9	ppbv	109			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	11.1	ppbv	111			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	10.9	ppbv	109			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.:	**Q3627**	**Analytical Method:**	**SWTO-15**
Client:	**RTP Environmental**	**Datafile :**	VL043193.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL1113ABS01	1,3-Dichlorobenzene	10	11.5	ppbv	115			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	11.5	ppbv	115			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	11.5	ppbv	115			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	10.7	ppbv	107			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	10.2	ppbv	102			70 (70)	130 (130)	
	Naphthalene	10	10.2	ppbv	102			40 (70)	160 (130)	
	1,3-Butadiene	10	8.00	ppbv	80			70 (70)	130 (130)	
	4-Ethyltoluene	10	11.1	ppbv	111			70 (70)	130 (130)	
	Hexane	10	9.50	ppbv	95			70 (70)	130 (130)	
	Allyl Chloride	10	8.50	ppbv	85			70 (70)	130 (130)	
	1,4-Dioxane	10	10.2	ppbv	102			40 (70)	160 (130)	
	Methyl methacrylate	10	10.3	ppbv	103			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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

Lab Sample Id :	Q3627-02DUP		Q3627-02	
Client Id :	UNIT-7-IA-1DUP		UNIT-7-IA-1	
DF :	1		1	
Datafile :	VL043195.D		VL043194.D	
Anal Date & Time :	11/13/2025	12:28	11/13/2025	11:52

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0	0	0
2-Butanone	0.47	0.52	10.1
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	1.2	1.3	8
Acetone	6.2	6.4	3.2
Allyl Chloride	0	0	0
Benzene	0.19	0.2	5.1
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.08	0.09	11.8

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Duplicate Sample Summary

Lab Sample Id :	Q3627-02DUP		Q3627-02	
Client Id :	UNIT-7-IA-1DUP		UNIT-7-IA-1	
DF :	1		1	
Datafile :	VL043195.D		VL043194.D	
Anal Date & Time :	11/13/2025	12:28	11/13/2025	11:52

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.41	0.44	7.1
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.43	0.42	2.4
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0.29	0.3	3.4
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	1.6	1.7	6.1
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0.81	0.83	2.4
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0.57	0.58	1.7
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.06	0.08	28.6 *
Tetrahydrofuran	0.14	0.15	6.9
Toluene	1.1	1.1	0
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.27	0.3	10.5
Vinyl Chloride	0	0	0

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VOLATILE METHOD BLANK SUMMARY

Client ID: VL1113ABL01

Lab Name: Alliance | Contract: RTPE01

Lab Code: ACE | SDG NO.: Q3627

Lab File ID: VL043192.D | Lab Sample ID: VL1113ABL01

Date Analyzed: 11/13/2025 | Time Analyzed: 09:47

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
VL1113ABS01	VL1113ABS01	VL043193.D	11/13/2025
UNIT-7-IA-1	Q3627-02	VL043194.D	11/13/2025
UNIT-7-IA-1DUP	Q3627-02DUP	VL043195.D	11/13/2025
UNIT-8-IA-1	Q3627-01	VL043196.D	11/13/2025
AA-East	Q3627-03	VL043197.D	11/13/2025
UNIT-8-SS-1DL	Q3627-04DL	VL043198.D	11/13/2025
UNIT-7-SS-1DL	Q3627-05DL	VL043199.D	11/13/2025
UNIT-8-SS-1	Q3627-04	VL043200.D	11/13/2025
UNIT-7-SS-1	Q3627-05	VL043201.D	11/13/2025

COMMENTS:

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: RTPE01

Lab Code: ACE | SDG NO.: Q3627

Lab File ID: VL043103.D | BFB Injection Date: 10/14/2025

Instrument ID: MSVOA_L | BFB Injection Time: 08:42

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	21.9
75	30.0 - 66.0% of mass 95	53.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	61.7
175	4.0 - 9.0% of mass 174	4.8 (7.8) 1
176	93.0 - 101.0% of mass 174	59.6 (96.5) 1
177	5.0 - 9.0% of mass 176	3.9 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL043105.D	10/14/2025	10:31
VSTDICC002	VSTDICC002	VL043106.D	10/14/2025	11:27
VSTDICC001	VSTDICC001	VL043107.D	10/14/2025	12:01
VSTDICC0.5	VSTDICC0.5	VL043108.D	10/14/2025	12:34
VSTDICC0.1	VSTDICC0.1	VL043109.D	10/14/2025	13:08
VSTDICC0.03	VSTDICC0.03	VL043110.D	10/14/2025	13:42
VSTDICC015	VSTDICC015	VL043111.D	10/14/2025	14:18

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: RTPE01

Lab Code: ACE | SDG NO.: Q3627

Lab File ID: VL043190.D | BFB Injection Date: 11/13/2025

Instrument ID: MSVOA_L | BFB Injection Time: 07:50

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.3
75	30.0 - 66.0% of mass 95	56.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.6 (1) 1
174	50.0 - 120.0% of mass 95	63.5
175	4.0 - 9.0% of mass 174	4.7 (7.5) 1
176	93.0 - 101.0% of mass 174	62.4 (98.3) 1
177	5.0 - 9.0% of mass 176	4.5 (7.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL043191.D	11/13/2025	09:01
VL1113ABL01	VL1113ABL01	VL043192.D	11/13/2025	09:47
VL1113ABS01	VL1113ABS01	VL043193.D	11/13/2025	10:53
UNIT-7-IA-1	Q3627-02	VL043194.D	11/13/2025	11:52
UNIT-7-IA-1DUP	Q3627-02DUP	VL043195.D	11/13/2025	12:28
UNIT-8-IA-1	Q3627-01	VL043196.D	11/13/2025	13:04
AA-East	Q3627-03	VL043197.D	11/13/2025	13:40
UNIT-8-SS-1DL	Q3627-04DL	VL043198.D	11/13/2025	14:14
UNIT-7-SS-1DL	Q3627-05DL	VL043199.D	11/13/2025	14:47
UNIT-8-SS-1	Q3627-04	VL043200.D	11/13/2025	15:23
UNIT-7-SS-1	Q3627-05	VL043201.D	11/13/2025	15:58

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: RTPE01

Lab Code: ACE SDG NO.: Q3627

Lab File ID: VL043191.D Date Analyzed: 11/13/2025

Instrument ID: MSVOA_L Time Analyzed: 09:01

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	141757	2.79	379323	3.97	324654	8.89
UPPER LIMIT	198460	3.12	531052	4.30	454516	9.22
LOWER LIMIT	85054.2	2.46	227594	3.64	194792	8.56
EPA SAMPLE NO.						
UNIT-8-IA-1	143373	2.79	385279	3.97	320935	8.89
UNIT-7-IA-1	144607	2.80	396555	3.97	342186	8.89
UNIT-7-IA-1DUP	145038	2.79	398990	3.97	346200	8.89
AA-East	141257	2.79	362075	3.97	303679	8.89
UNIT-8-SS-1	136843	2.79	359287	3.97	305253	8.89
UNIT-8-SS-1DL	138276	2.80	360106	3.97	298832	8.89
UNIT-7-SS-1	147747	2.80	400343	3.97	381448	8.89
UNIT-7-SS-1DL	140657	2.79	374439	3.97	343535	8.89
VL1113ABL01	136642	2.79	369240	3.97	306160	8.89
VL1113ABS01	140848	2.79	381641	3.97	326347	8.89

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

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

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

SAMPLE DATA

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-8-IA-1	SDG No.:	Q3627
Lab Sample ID:	Q3627-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.40	1.98	J	1	0.54	2.47	11/13/25 13:04	VL111325
74-87-3	Chloromethane	0.48	0.99	J	1	0.21	1.03	11/13/25 13:04	VL111325
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/13/25 13:04	VL111325
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/13/25 13:04	VL111325
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/13/25 13:04	VL111325
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	11/13/25 13:04	VL111325
75-69-4	Trichlorofluoromethane	0.28	1.57	J	1	0.96	2.81	11/13/25 13:04	VL111325
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/13/25 13:04	VL111325
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/13/25 13:04	VL111325
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/13/25 13:04	VL111325
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/13/25 13:04	VL111325
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/13/25 13:04	VL111325
67-64-1	Acetone	4.30	10.2		1	0.43	1.19	11/13/25 13:04	VL111325
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/13/25 13:04	VL111325
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/13/25 13:04	VL111325
75-09-2	Methylene Chloride	0.61	2.12		1	0.80	1.74	11/13/25 13:04	VL111325
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/13/25 13:04	VL111325
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/13/25 13:04	VL111325
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/13/25 13:04	VL111325
78-93-3	2-Butanone	0.42	1.24	J	1	0.18	1.47	11/13/25 13:04	VL111325
56-23-5	Carbon Tetrachloride	0.10	0.63		1	0.19	0.19	11/13/25 13:04	VL111325
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/13/25 13:04	VL111325
67-66-3	Chloroform	0.11	0.54	J	1	0.49	2.44	11/13/25 13:04	VL111325
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/13/25 13:04	VL111325
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/13/25 13:04	VL111325
71-43-2	Benzene	0.16	0.51	J	1	0.26	1.60	11/13/25 13:04	VL111325
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	11/13/25 13:04	VL111325
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/13/25 13:04	VL111325
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/13/25 13:04	VL111325
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/13/25 13:04	VL111325
108-10-1	4-Methyl-2-Pentanone	0.23	0.94	J	1	0.41	2.05	11/13/25 13:04	VL111325
108-88-3	Toluene	0.24	0.90	J	1	0.60	1.88	11/13/25 13:04	VL111325
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/13/25 13:04	VL111325
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/13/25 13:04	VL111325
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/13/25 13:04	VL111325
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/13/25 13:04	VL111325
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/13/25 13:04	VL111325
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/13/25 13:04	VL111325
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/13/25 13:04	VL111325
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/13/25 13:04	VL111325
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/13/25 13:04	VL111325
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/13/25 13:04	VL111325
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	11/13/25 13:04	VL111325
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/13/25 13:04	VL111325
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/13/25 13:04	VL111325
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/13/25 13:04	VL111325

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Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-8-IA-1	SDG No.:	Q3627
Lab Sample ID:	Q3627-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3		Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46		11/13/25 13:04	VL111325
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46		11/13/25 13:04	VL111325
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01		11/13/25 13:04	VL111325
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01		11/13/25 13:04	VL111325
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01		11/13/25 13:04	VL111325
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71		11/13/25 13:04	VL111325
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33		11/13/25 13:04	VL111325
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11		11/13/25 13:04	VL111325
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52		11/13/25 13:04	VL111325
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46		11/13/25 13:04	VL111325
110-54-3	Hexane	1.90	6.70		1	0.56	1.76		11/13/25 13:04	VL111325
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57		11/13/25 13:04	VL111325
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80		11/13/25 13:04	VL111325
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05		11/13/25 13:04	VL111325
SURROGATES										
460-00-4	1-Bromo-4-Fluorobenzene	10.0				70 (65) - 130	100%	SPK: 10		
INTERNAL STANDARDS		**Area Count**								
74-97-5	Bromochloromethane	143000								
540-36-3	1,4-Difluorobenzene	385000								
3114-55-4	Chlorobenzene-d5	321000								

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\VL111325\
Data File : VL043196.D
Acq On : 13 Nov 2025 13:04
Operator : SY/MD
Sample : Q3627-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:39:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	143373	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	385279	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	320935	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	248695	9.970	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	8053	0.395	ppbv		96
4) Chloromethane	1.535	50	3885	0.481	ppbv		95
9) Propene	1.486	41	6695	0.685	ppbv		95
11) Trichlorofluoromethane	1.881	101	5677	0.285	ppbv		94
13) Ethanol	1.725	45	84748	23.425	ppbv		98
15) Acetone	1.839	43	83838	4.338	ppbv		97
19) Isopropyl Alcohol	1.887	45	462070	38.391	ppbv	#	37
20) Methylene Chloride	2.065	84	4676	0.612	ppbv		94
26) Hexane	2.829	57	41872	1.896	ppbv	#	49
29) Chloroform	2.852	83	3412	0.107	ppbv		99
34) 2-Butanone	2.567	43	10888	0.420	ppbv		92
35) Carbon Tetrachloride	3.777	117	2849m	0.103	ppbv		
36) Benzene	3.661	78	5966	0.164	ppbv		96
50) 4-Methyl-2-Pentanone	5.771	43	8320m	0.233	ppbv		
53) Toluene	6.940	91	10369m	0.241	ppbv		

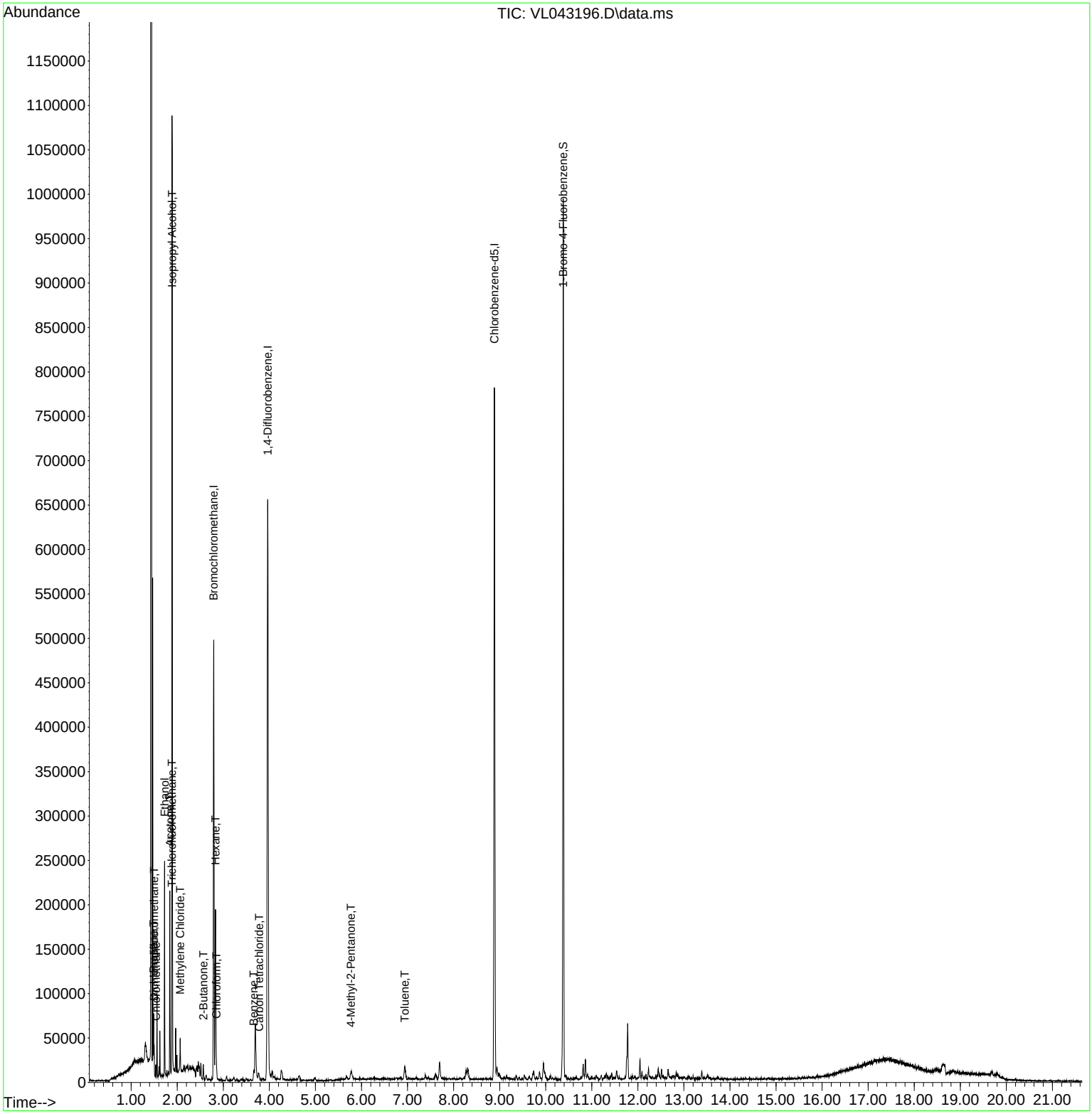
(#) = qualifier out of range (m) = manual integration (+) = signals summed

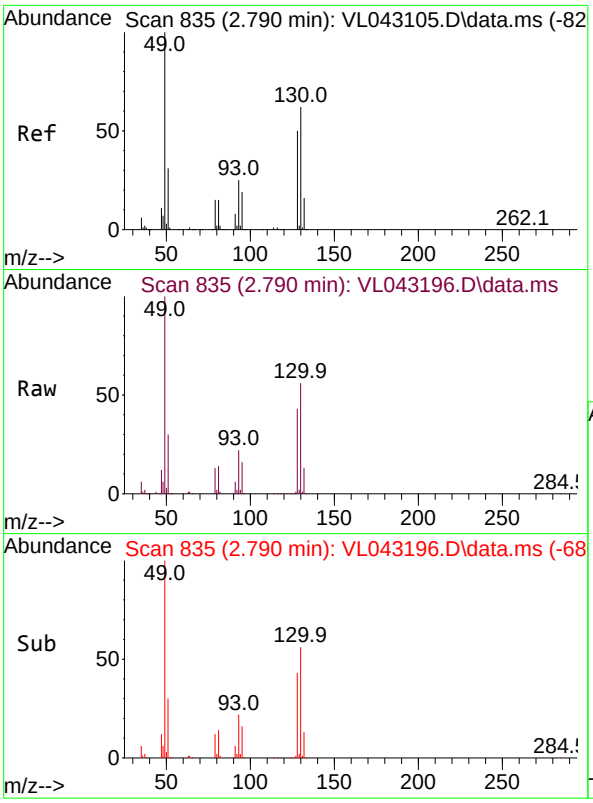
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043196.D
Acq On : 13 Nov 2025 13:04
Operator : SY/MD
Sample : Q3627-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:39:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

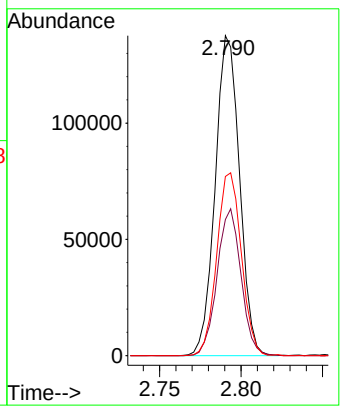




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 49 Resp: 14337

Ion	Ratio	Lower	Upper
49	100		
128	45.0	24.4	73.4
130	57.7	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Manual Integrations
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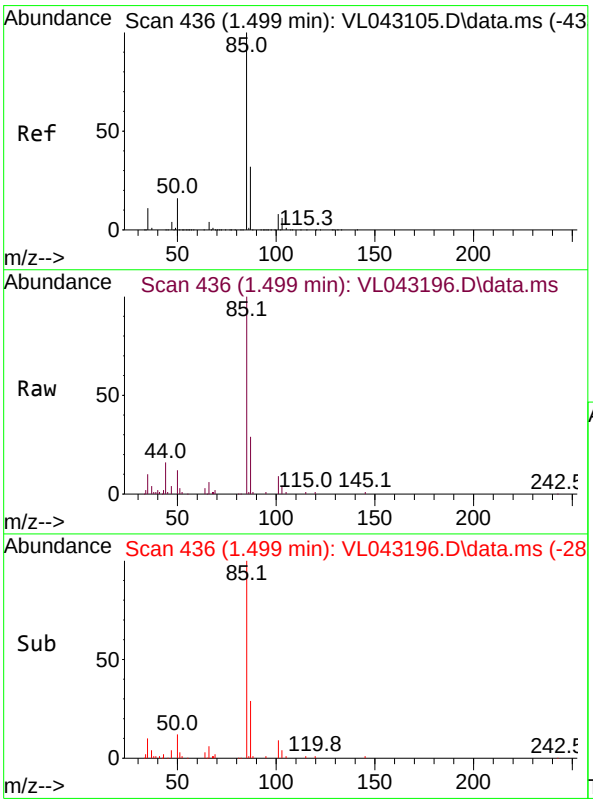
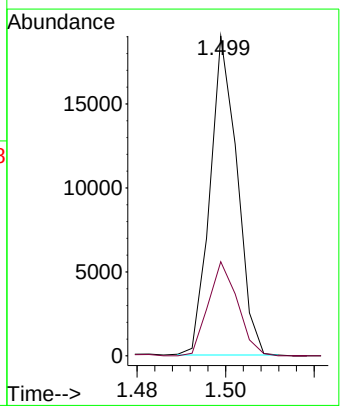
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

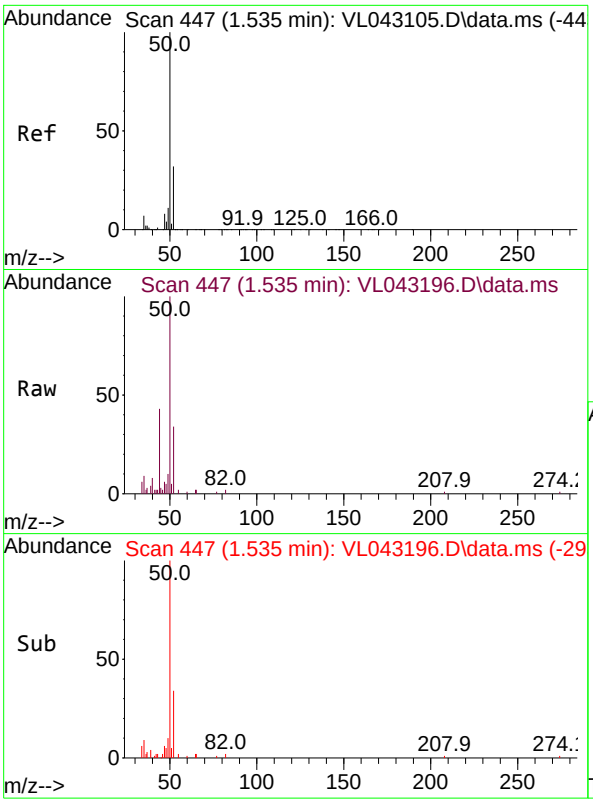


#2
Dichlorodifluoromethane
Concen: 0.395 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 85 Resp: 8053

Ion	Ratio	Lower	Upper
85	100		
87	29.5	25.3	37.9

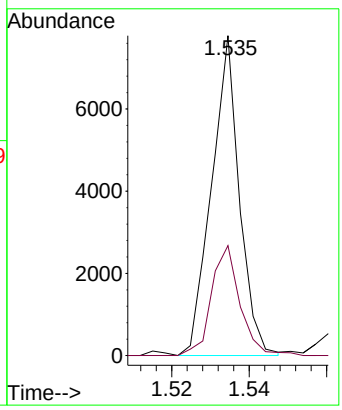




#4
Chloromethane
Concen: 0.481 ppbv
RT: 1.535 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 50 Resp: 388

Ion	Ratio	Lower	Upper
50	100		
52	34.4	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Manual Integrations
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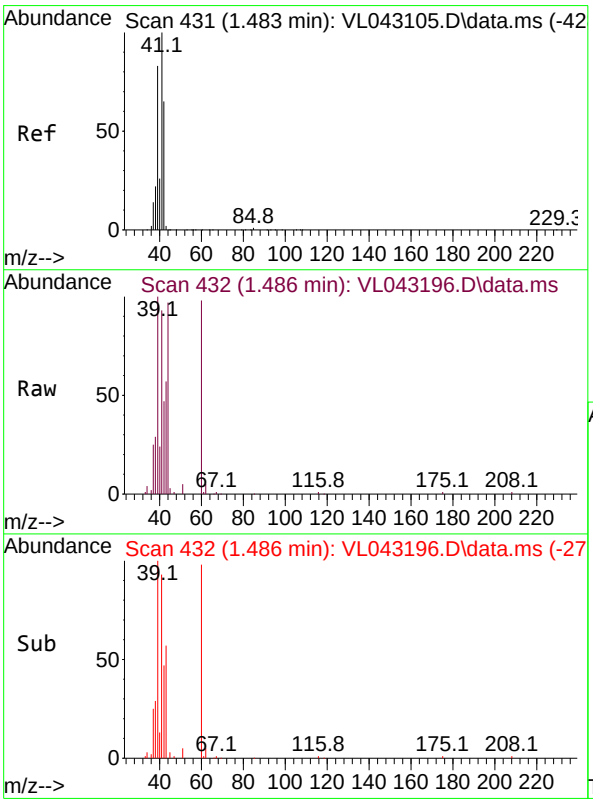
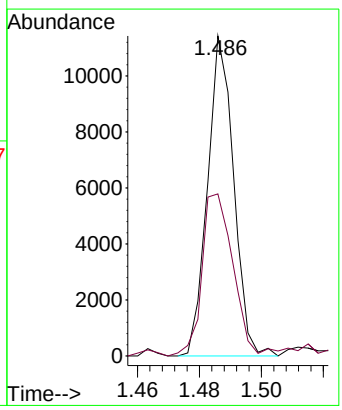
Supervised By :Mahesh Dadoda 11/18/2025

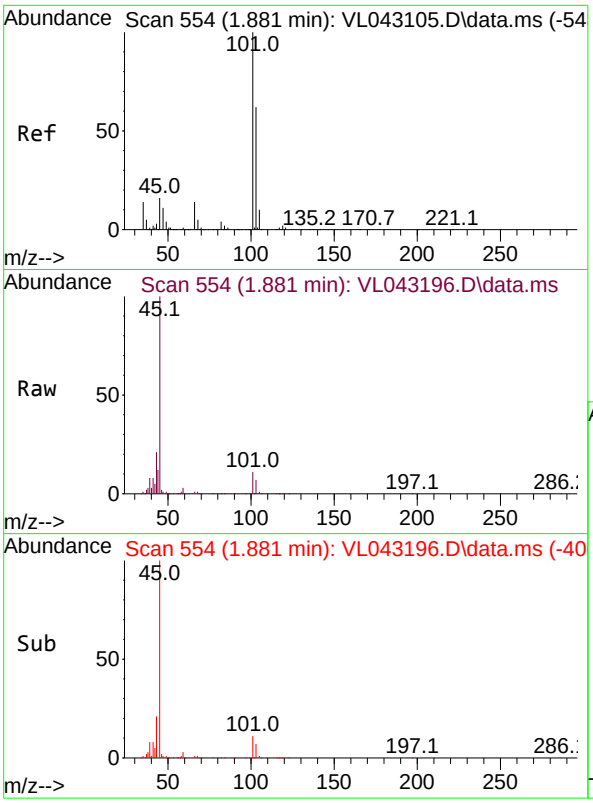


#9
Propene
Concen: 0.685 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 41 Resp: 6695

Ion	Ratio	Lower	Upper
41	100		
42	64.7	55.1	82.7

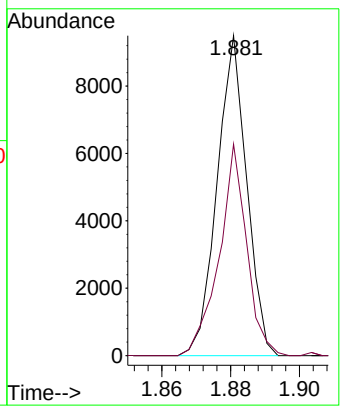




#11
Trichlorofluoromethane
Concen: 0.285 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion:101 Resp: 567

Ion	Ratio	Lower	Upper
101	100		
103	66.1	49.3	73.9



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

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Reviewed By :Semsettin Yesilyurt 11/17/2025
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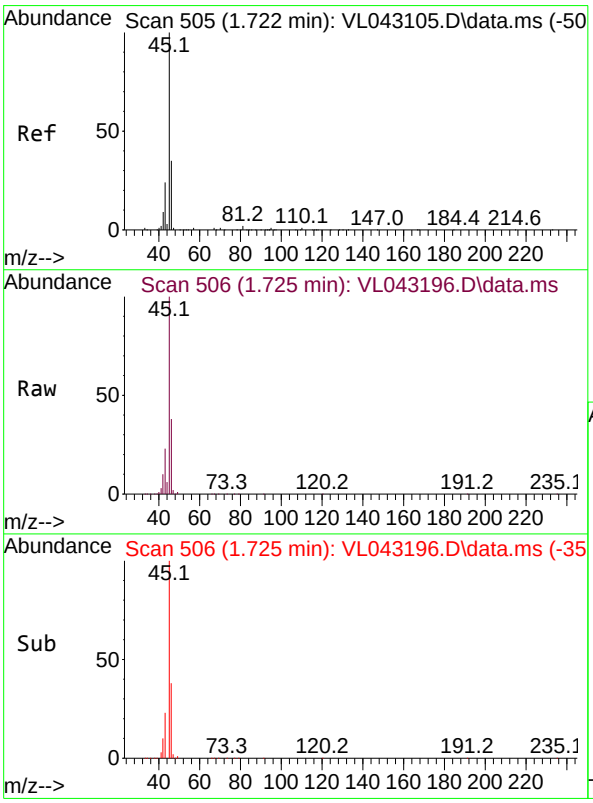
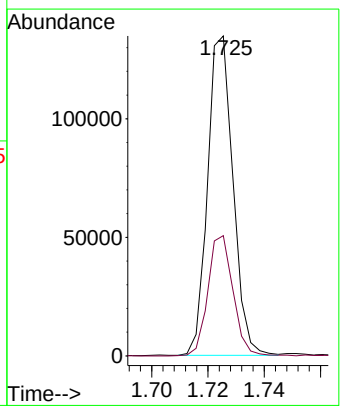
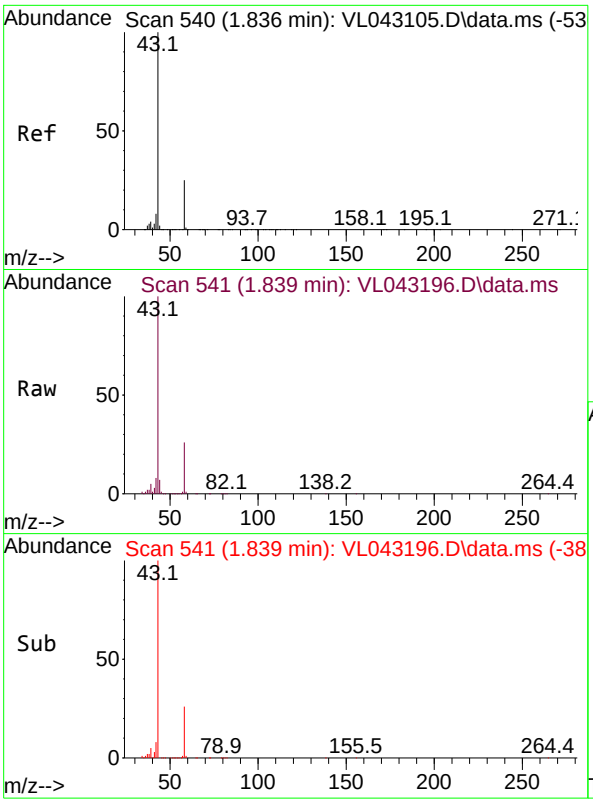


#13
Ethanol
Concen: 23.425 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 45 Resp: 84748

Ion	Ratio	Lower	Upper
45	100		
46	37.8	14.7	58.9

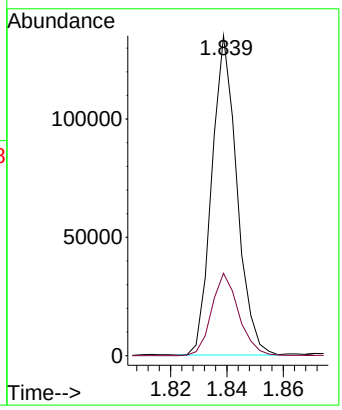




#15
Acetone
Concen: 4.338 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 43 Resp: 8383

Ion	Ratio	Lower	Upper
43	100		
58	27.8	20.8	31.2



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Manual Integrations
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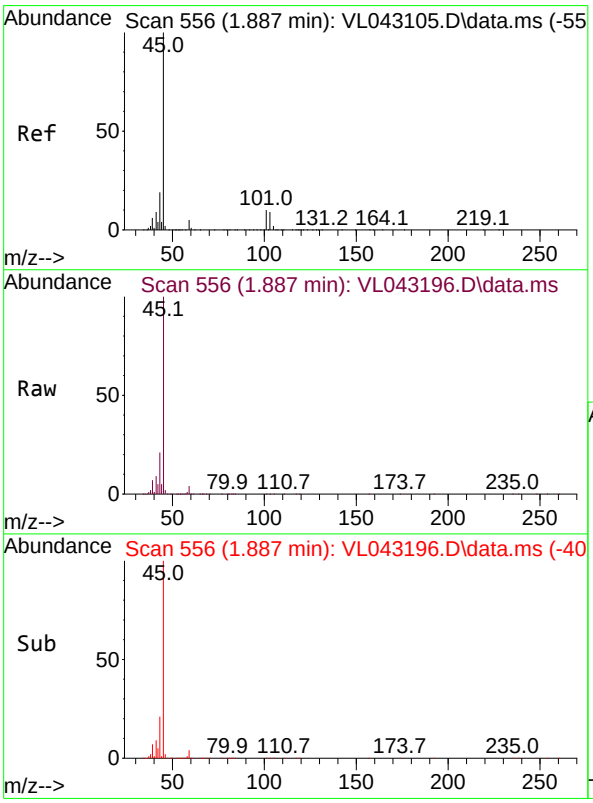
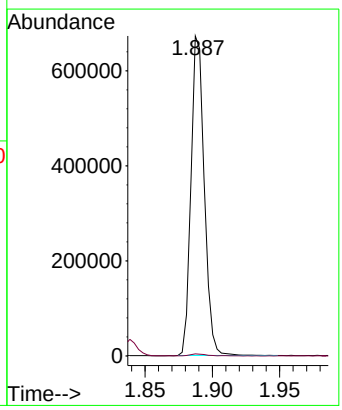
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

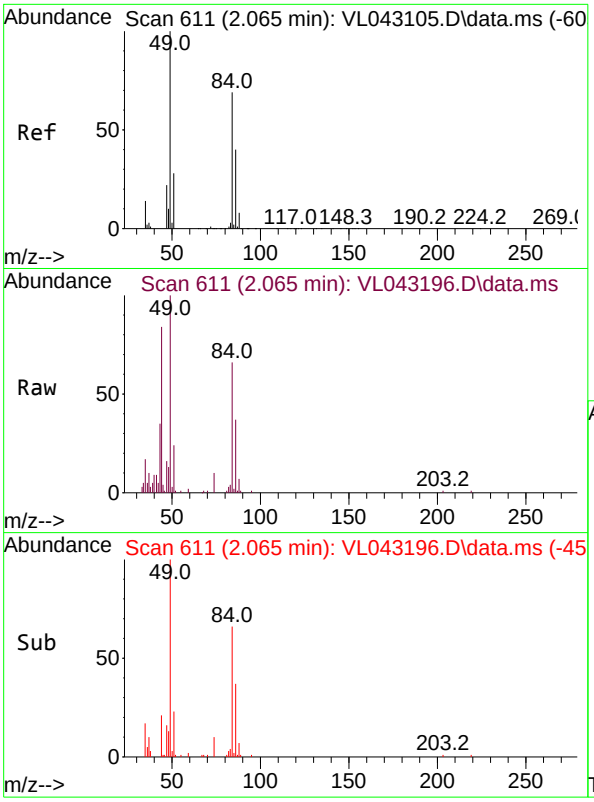


#19
Isopropyl Alcohol
Concen: 38.391 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 45 Resp: 462070

Ion	Ratio	Lower	Upper
45	100		
58	0.7	31.3	46.9#

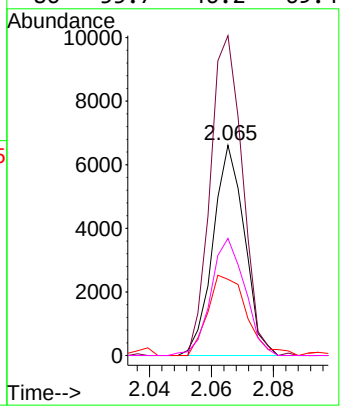




#20
Methylene Chloride
Concen: 0.612 ppbv
RT: 2.065 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 84 Resp: 467

Ion	Ratio	Lower	Upper
84	100		
49	152.1	116.6	175.0
51	36.3	34.8	52.2
86	55.7	46.2	69.4



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Manual Integrations
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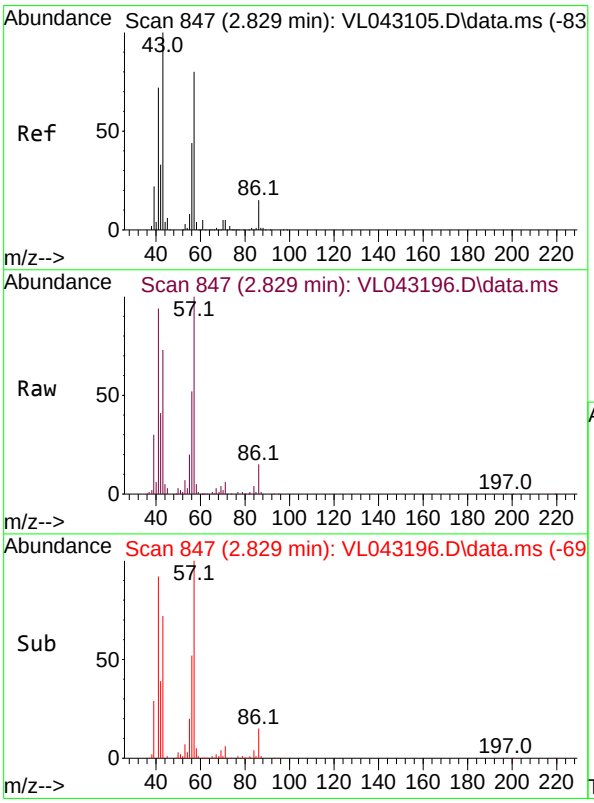
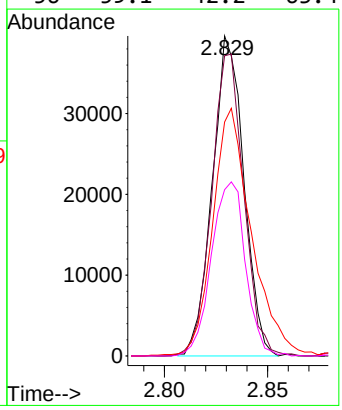
Supervised By :Mahesh Dadoda 11/18/2025

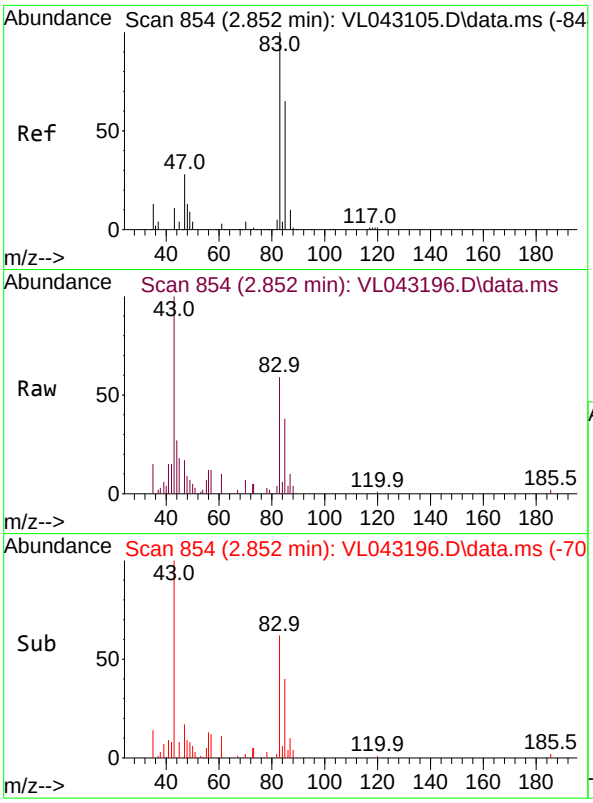


#26
Hexane
Concen: 1.896 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 57 Resp: 41872

Ion	Ratio	Lower	Upper
57	100		
41	96.5	71.4	107.0
43	95.6	178.5	267.7#
56	59.1	42.2	63.4

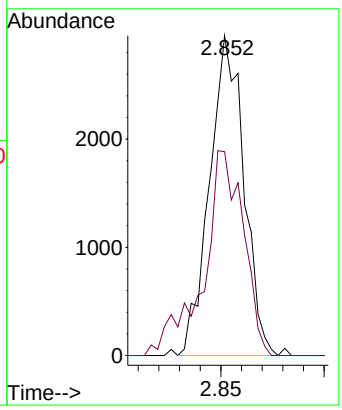




#29
Chloroform
Concen: 0.107 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 83 Resp: 341

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.8	77.6



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Manual Integrations
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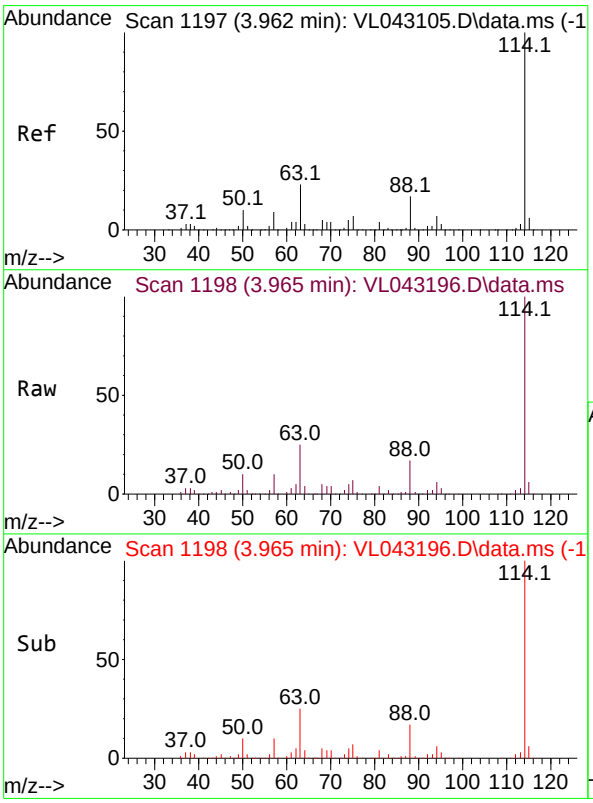
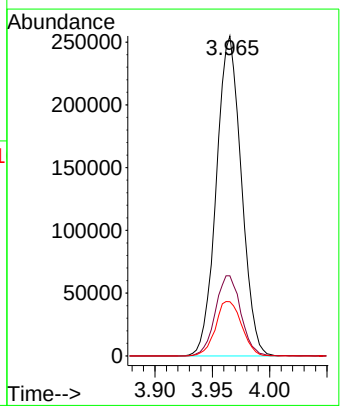
Supervised By :Mahesh Dadoda 11/18/2025

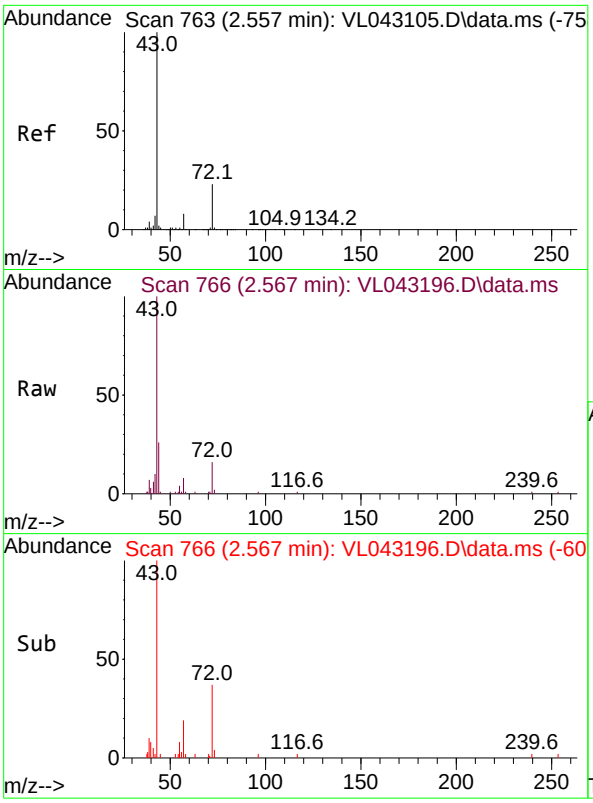


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion:114 Resp: 385279

Ion	Ratio	Lower	Upper
114	100		
63	25.5	19.3	28.9
88	17.8	13.9	20.9

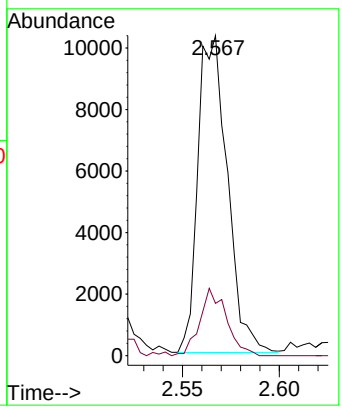




#34
2-Butanone
Concen: 0.420 ppbv
RT: 2.567 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 43 Resp: 1088

Ion	Ratio	Lower	Upper
43	100		
72	19.2	18.4	27.6



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

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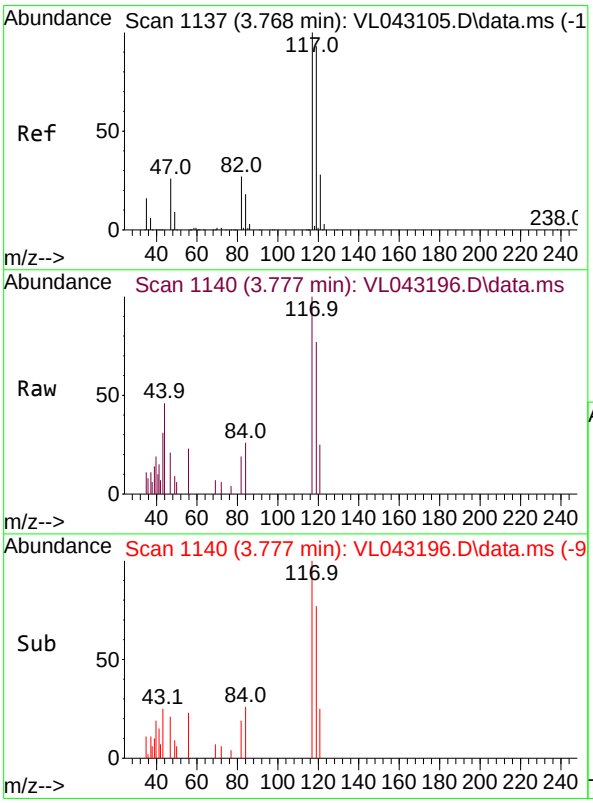
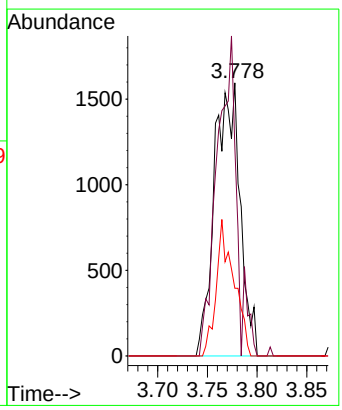
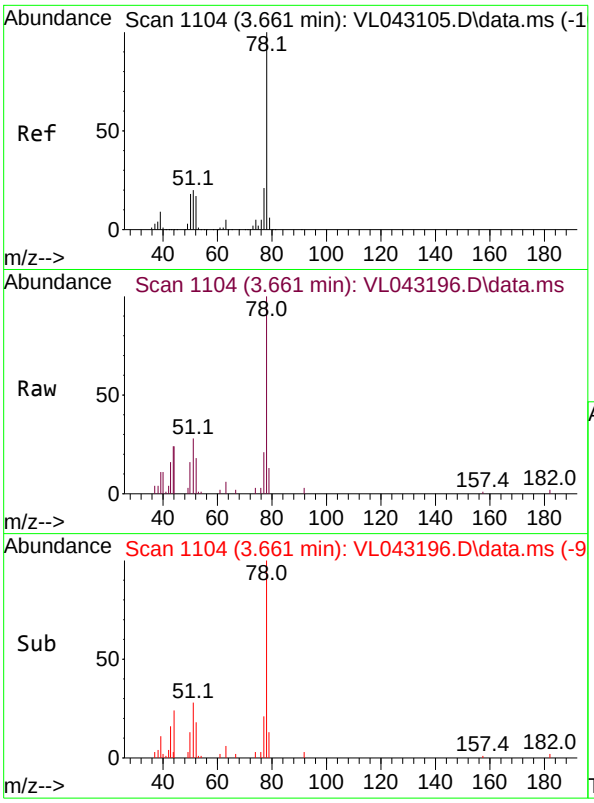


#35
Carbon Tetrachloride
Concen: 0.103 ppbv m
RT: 3.777 min Scan# 1140
Delta R.T. 0.010 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion:117 Resp: 2849

Ion	Ratio	Lower	Upper
117	100		
119	76.5	74.1	111.1
121	24.7	22.2	33.2

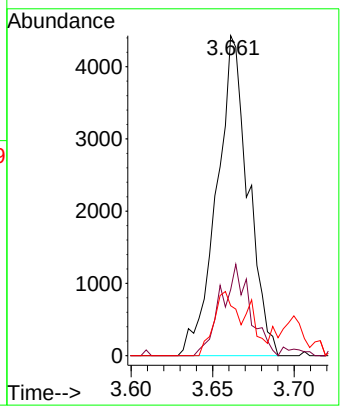




#36
Benzene
Concen: 0.164 ppbv
RT: 3.661 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 78 Resp: 596

Ion	Ratio	Lower	Upper
78	100		
77	20.6	17.0	25.6
50	15.6	14.6	22.0



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Manual Integrations
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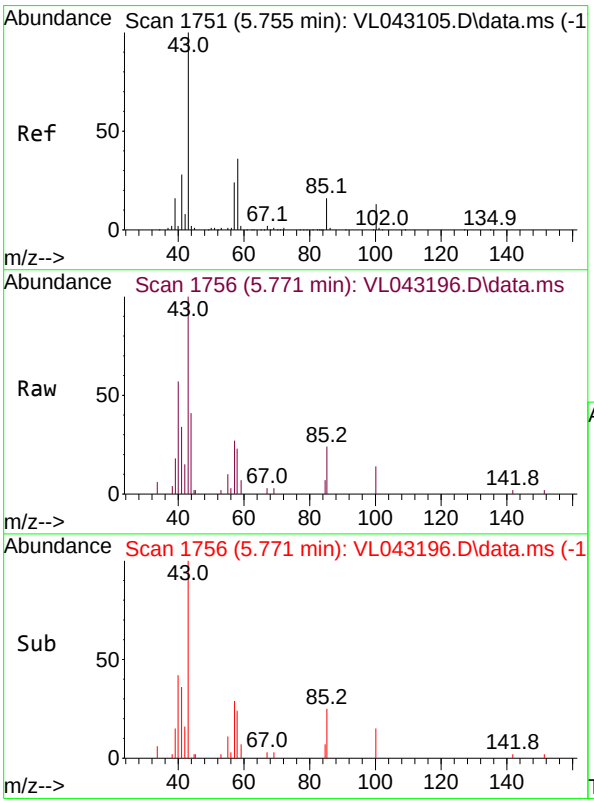
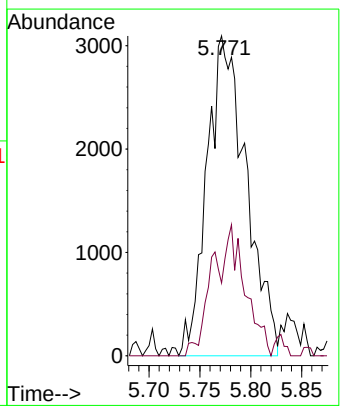
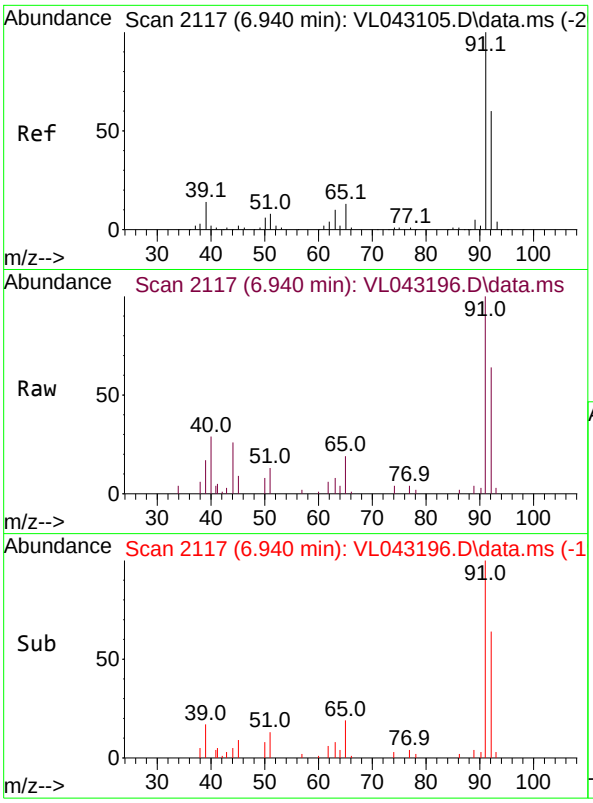


#50
4-Methyl-2-Pentanone
Concen: 0.233 ppbv m
RT: 5.771 min Scan# 1756
Delta R.T. 0.016 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 43 Resp: 8320

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7#

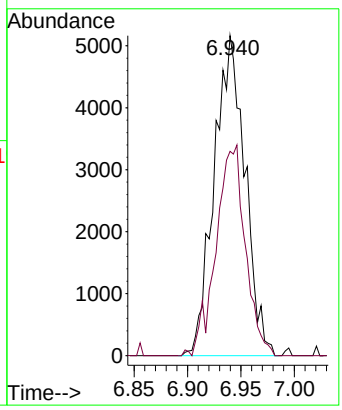




#53
Toluene
Concen: 0.241 ppbv m
RT: 6.940 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 91 Resp: 1036

Ion	Ratio	Lower	Upper
91	100		
92	62.5	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Manual Integrations
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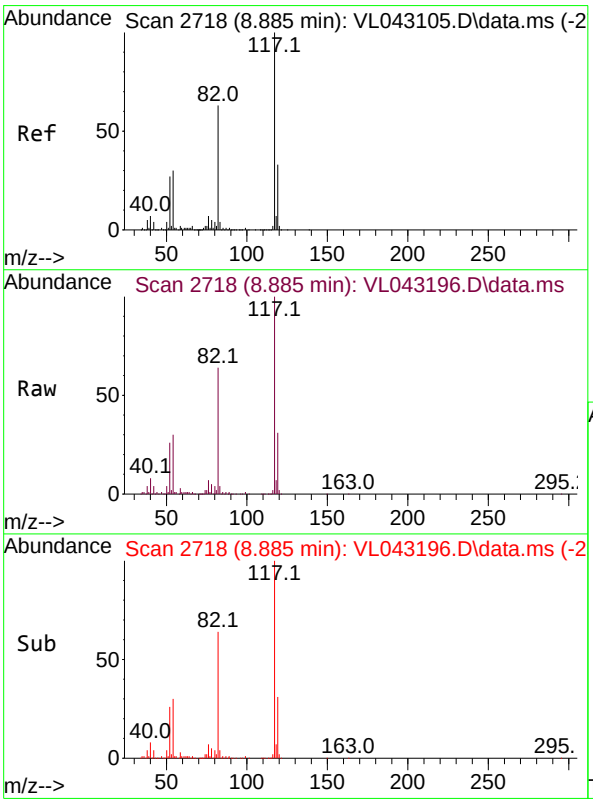
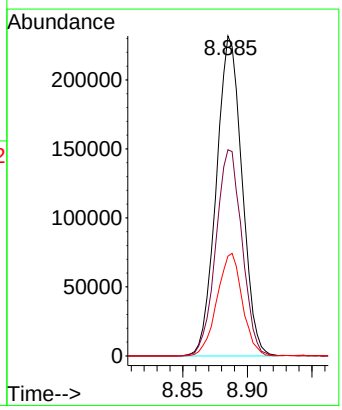
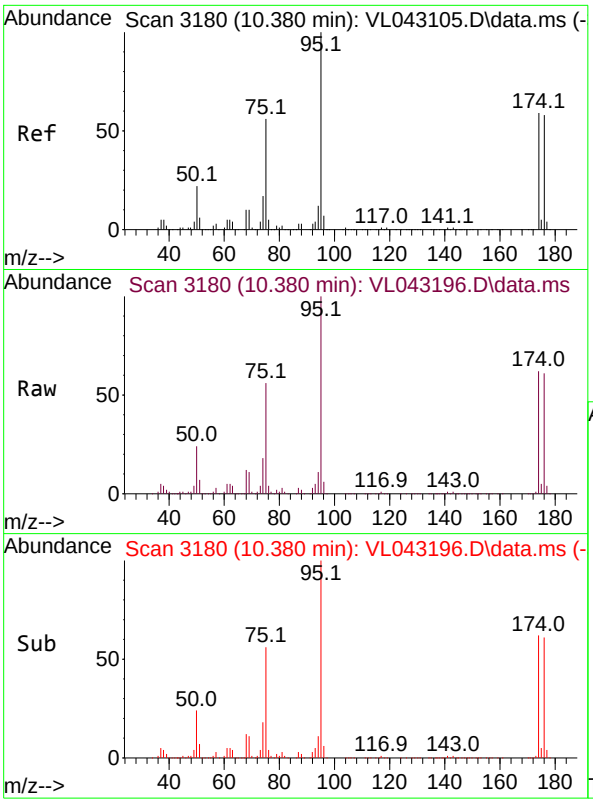


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion:117 Resp: 320935

Ion	Ratio	Lower	Upper
117	100		
82	65.6	53.8	80.8
119	31.8	25.4	38.0

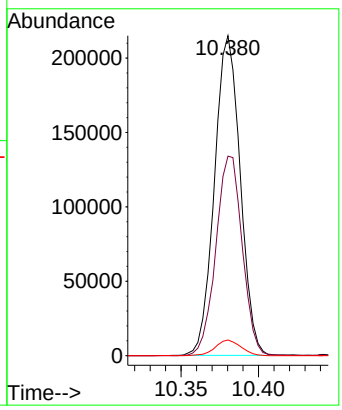




#68
1-Bromo-4-Fluorobenzene
Concen: 9.970 ppbv
RT: 10.380 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 95 Resp: 24869

Ion	Ratio	Lower	Upper
95	100		
174	63.9	48.3	72.5
175	4.8	3.8	5.8



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-7-IA-1	SDG No.:	Q3627
Lab Sample ID:	Q3627-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.42	2.08	J	1	0.54	2.47	11/13/25 11:52	VL111325
74-87-3	Chloromethane	0.44	0.91	J	1	0.21	1.03	11/13/25 11:52	VL111325
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/13/25 11:52	VL111325
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/13/25 11:52	VL111325
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/13/25 11:52	VL111325
109-99-9	Tetrahydrofuran	0.15	0.44	J	1	0.24	1.47	11/13/25 11:52	VL111325
75-69-4	Trichlorofluoromethane	0.30	1.69	J	1	0.96	2.81	11/13/25 11:52	VL111325
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/13/25 11:52	VL111325
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/13/25 11:52	VL111325
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/13/25 11:52	VL111325
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/13/25 11:52	VL111325
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/13/25 11:52	VL111325
67-64-1	Acetone	6.40	15.2		1	0.43	1.19	11/13/25 11:52	VL111325
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/13/25 11:52	VL111325
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/13/25 11:52	VL111325
75-09-2	Methylene Chloride	0.83	2.88		1	0.80	1.74	11/13/25 11:52	VL111325
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/13/25 11:52	VL111325
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/13/25 11:52	VL111325
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/13/25 11:52	VL111325
78-93-3	2-Butanone	0.52	1.53		1	0.18	1.47	11/13/25 11:52	VL111325
56-23-5	Carbon Tetrachloride	0.090	0.57		1	0.19	0.19	11/13/25 11:52	VL111325
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/13/25 11:52	VL111325
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	11/13/25 11:52	VL111325
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/13/25 11:52	VL111325
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/13/25 11:52	VL111325
71-43-2	Benzene	0.20	0.64	J	1	0.26	1.60	11/13/25 11:52	VL111325
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	11/13/25 11:52	VL111325
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/13/25 11:52	VL111325
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/13/25 11:52	VL111325
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/13/25 11:52	VL111325
108-10-1	4-Methyl-2-Pentanone	1.30	5.33		1	0.41	2.05	11/13/25 11:52	VL111325
108-88-3	Toluene	1.10	4.15		1	0.60	1.88	11/13/25 11:52	VL111325
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/13/25 11:52	VL111325
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/13/25 11:52	VL111325
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/13/25 11:52	VL111325
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/13/25 11:52	VL111325
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/13/25 11:52	VL111325
127-18-4	Tetrachloroethene	0.080	0.54		1	0.14	0.20	11/13/25 11:52	VL111325
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/13/25 11:52	VL111325
100-41-4	Ethyl Benzene	0.30	1.30	J	1	0.83	2.17	11/13/25 11:52	VL111325
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/13/25 11:52	VL111325
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/13/25 11:52	VL111325
100-42-5	Styrene	0.58	2.47		1	0.68	2.13	11/13/25 11:52	VL111325
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/13/25 11:52	VL111325
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/13/25 11:52	VL111325
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/13/25 11:52	VL111325

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/11/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-7-IA-1	SDG No.:	Q3627
Lab Sample ID:	Q3627-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3		Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46		11/13/25 11:52	VL111325
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46		11/13/25 11:52	VL111325
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01		11/13/25 11:52	VL111325
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01		11/13/25 11:52	VL111325
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01		11/13/25 11:52	VL111325
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71		11/13/25 11:52	VL111325
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33		11/13/25 11:52	VL111325
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11		11/13/25 11:52	VL111325
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52		11/13/25 11:52	VL111325
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46		11/13/25 11:52	VL111325
110-54-3	Hexane	1.70	5.99		1	0.56	1.76		11/13/25 11:52	VL111325
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57		11/13/25 11:52	VL111325
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80		11/13/25 11:52	VL111325
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05		11/13/25 11:52	VL111325
SURROGATES										
460-00-4	1-Bromo-4-Fluorobenzene	10.5				70 (65) - 130	105%	SPK: 10		
INTERNAL STANDARDS		**Area Count**								
74-97-5	Bromochloromethane	145000								
540-36-3	1,4-Difluorobenzene	397000								
3114-55-4	Chlorobenzene-d5	342000								

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\VL111325\
Data File : VL043194.D
Acq On : 13 Nov 2025 11:52
Operator : SY/MD
Sample : Q3627-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:37:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	144607	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.972	114	396555	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.892	117	342186	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.384	95	278374	10.466	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8556	0.416	ppbv		96
4) Chloromethane	1.538	50	3563	0.437	ppbv	#	82
9) Propene	1.489	41	7778	0.788	ppbv		97
10) Heptane	5.001	43	3114m	0.110	ppbv		
11) Trichlorofluoromethane	1.884	101	5979	0.297	ppbv		96
13) Ethanol	1.726	45	529858	145.204	ppbv		97
15) Acetone	1.842	43	123766	6.350	ppbv		97
19) Isopropyl Alcohol	1.891	45	1775861	146.290	ppbv	#	37
20) Methylene Chloride	2.069	84	6423	0.834	ppbv		95
25) Ethyl Acetate	2.846	43	112486m	2.327	ppbv		
26) Hexane	2.836	57	36703	1.648	ppbv	#	65
34) 2-Butanone	2.567	43	13729	0.515	ppbv		99
35) Carbon Tetrachloride	3.775	117	2592m	0.091	ppbv		
36) Benzene	3.668	78	7434	0.199	ppbv	#	86
41) Tetrahydrofuran	3.072	42	2246m	0.151	ppbv		
50) 4-Methyl-2-Pentanone	5.775	43	47950m	1.303	ppbv		
52) Tetrachloroethene	8.238	164	1134m	0.084	ppbv		
53) Toluene	6.943	91	49889m	1.125	ppbv		
58) Ethyl Benzene	9.367	91	17904	0.305	ppbv		100
59) m/p-Xylene	9.549	91	5060m	0.108	ppbv		
61) Styrene	9.879	104	12213	0.585	ppbv		94

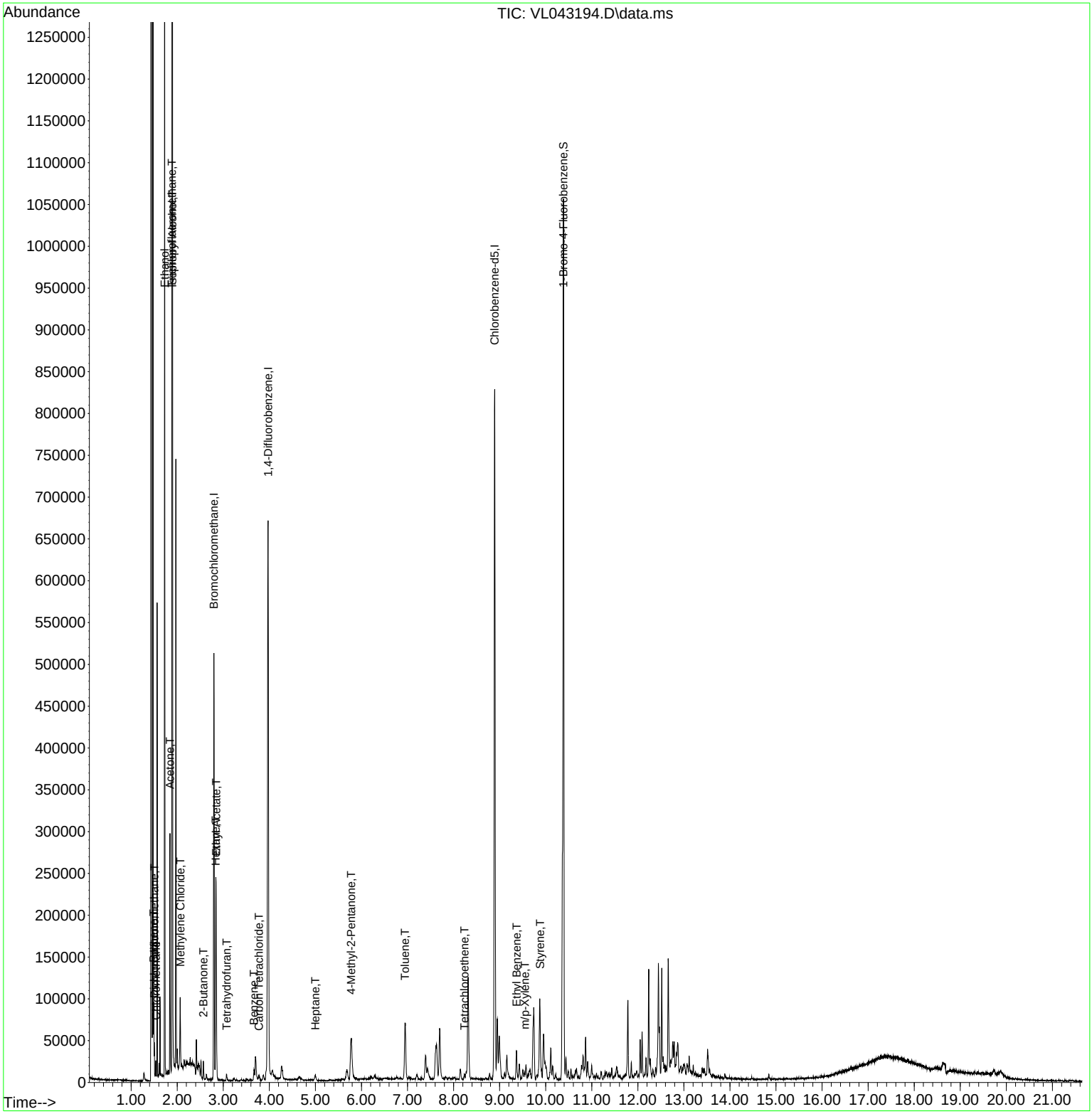
(#) = qualifier out of range (m) = manual integration (+) = signals summed

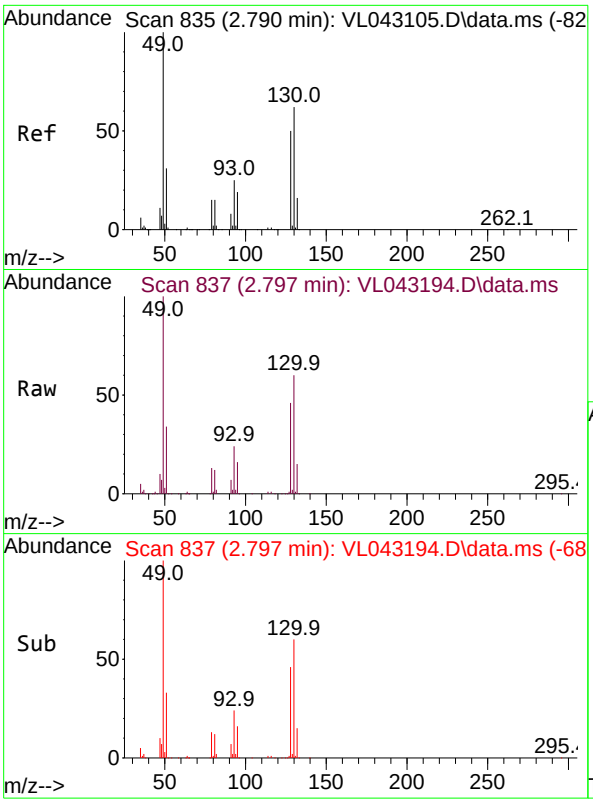
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043194.D
Acq On : 13 Nov 2025 11:52
Operator : SY/MD
Sample : Q3627-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:37:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

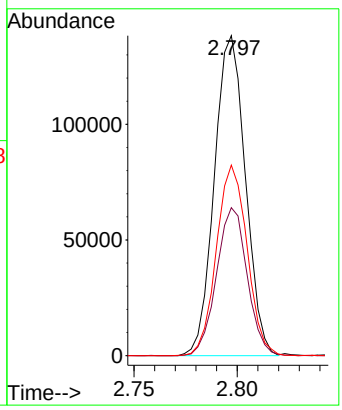




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 49 Resp: 14460

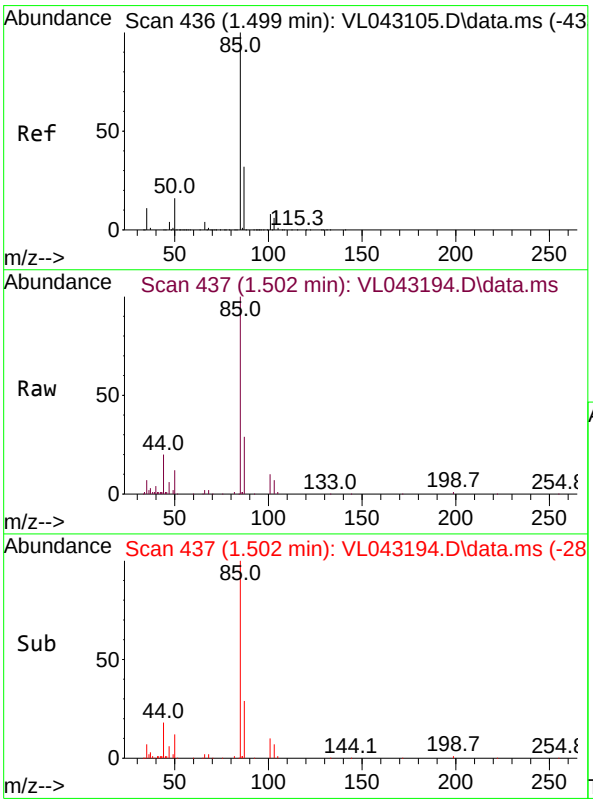
Ion	Ratio	Lower	Upper
49	100		
128	45.7	24.4	73.4
130	58.9	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Manual Integrations
APPROVED

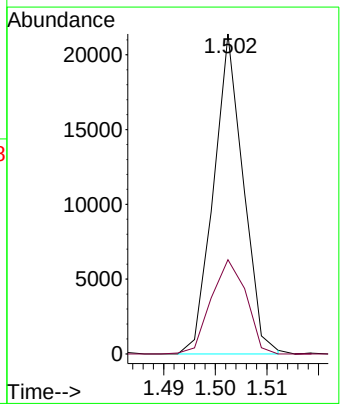
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

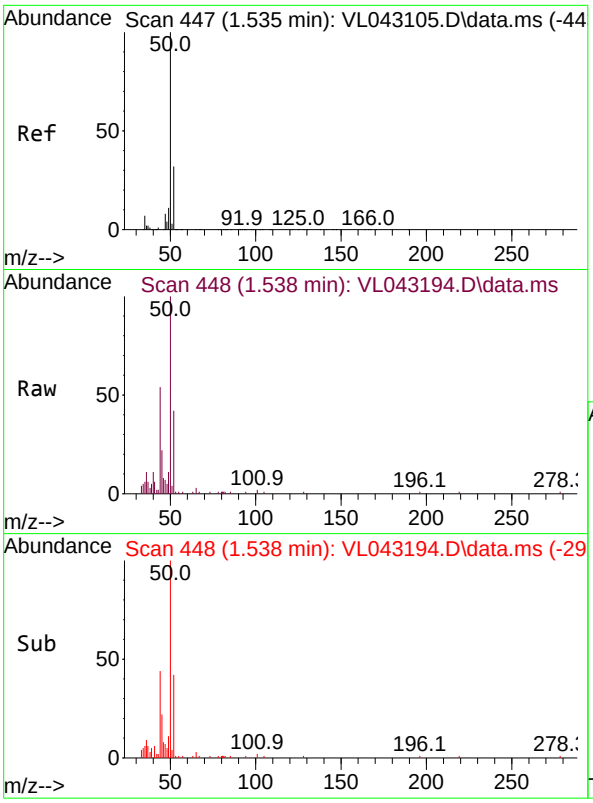


#2
Dichlorodifluoromethane
Concen: 0.416 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 85 Resp: 8556

Ion	Ratio	Lower	Upper
85	100		
87	29.4	25.3	37.9

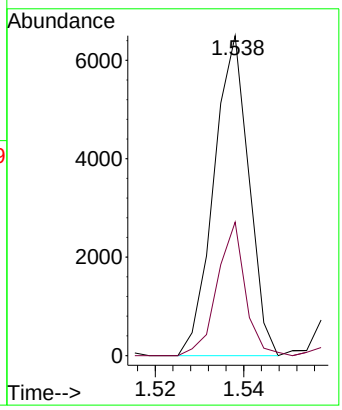




#4
Chloromethane
Concen: 0.437 ppbv
RT: 1.538 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 50 Resp: 356

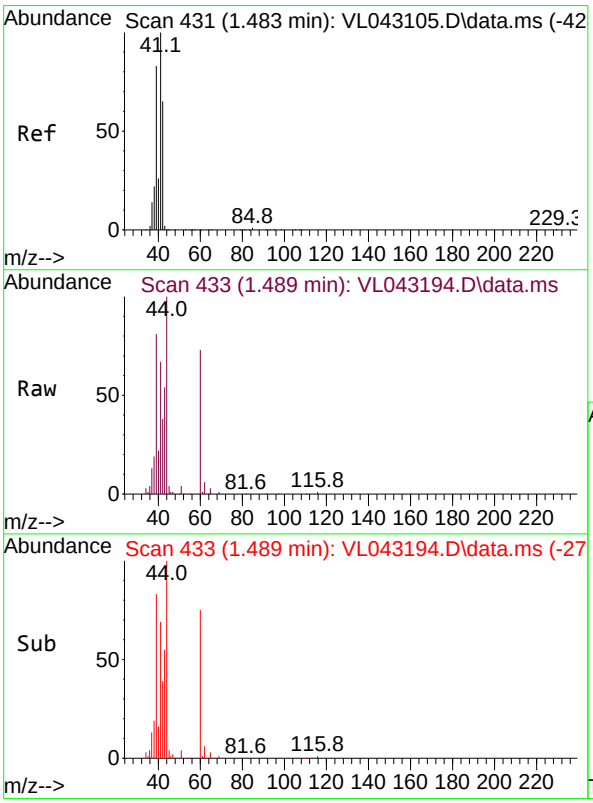
Ion	Ratio	Lower	Upper
50	100		
52	41.7	25.2	37.8#



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Manual Integrations
APPROVED

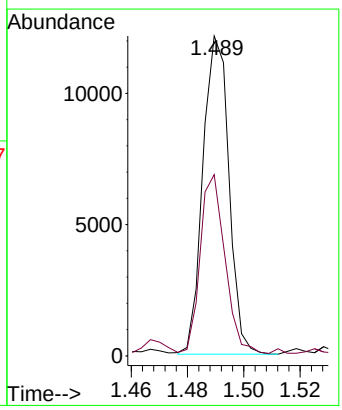
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

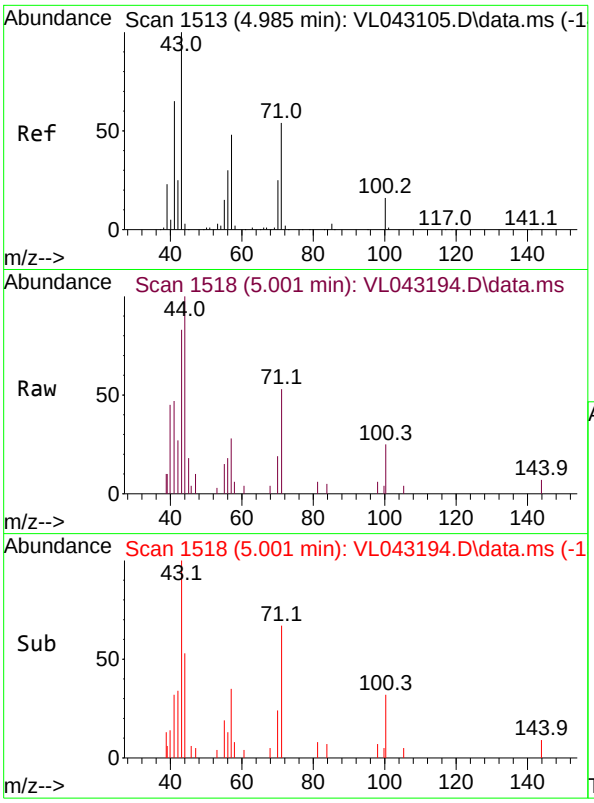


#9
Propene
Concen: 0.788 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 41 Resp: 7778

Ion	Ratio	Lower	Upper
41	100		
42	66.8	55.1	82.7

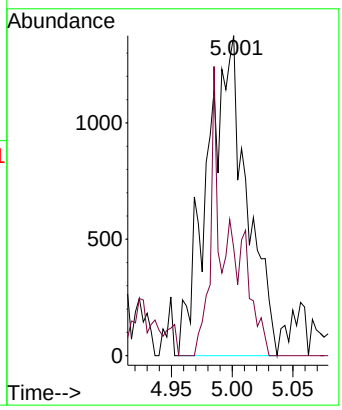




#10
Heptane
Concen: 0.110 ppbv m
RT: 5.001 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 43 Resp: 311

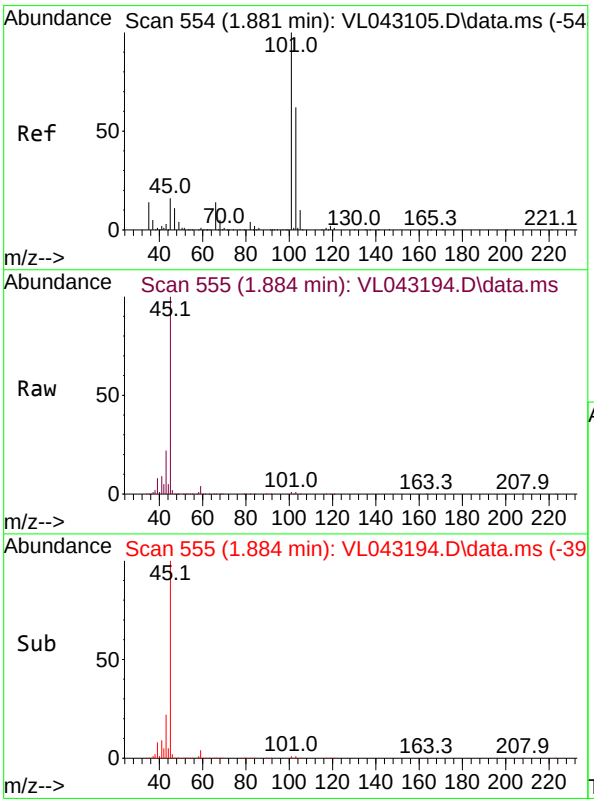
Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.8	61.2



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Manual Integrations
APPROVED

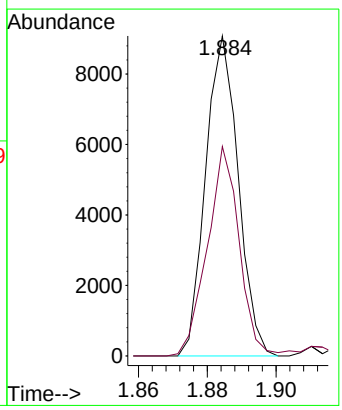
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

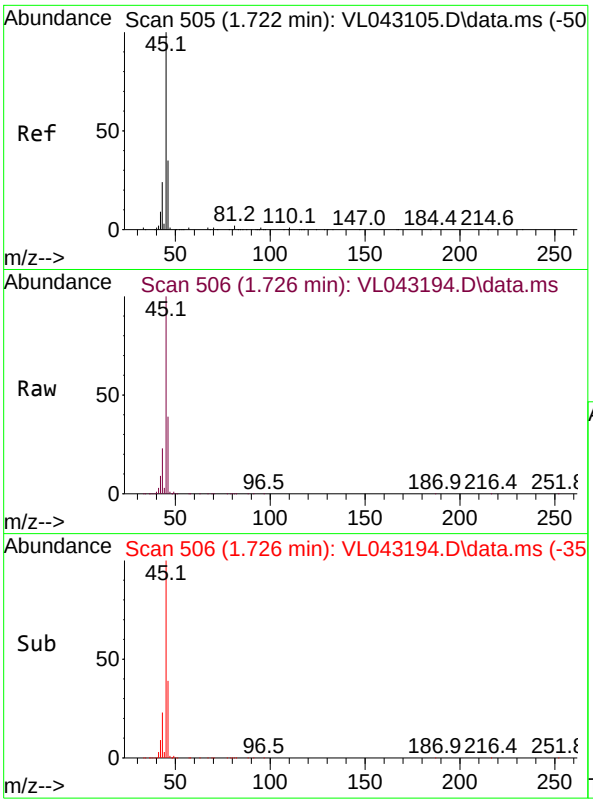


#11
Trichlorofluoromethane
Concen: 0.297 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:101 Resp: 5979

Ion	Ratio	Lower	Upper
101	100		
103	64.8	49.3	73.9

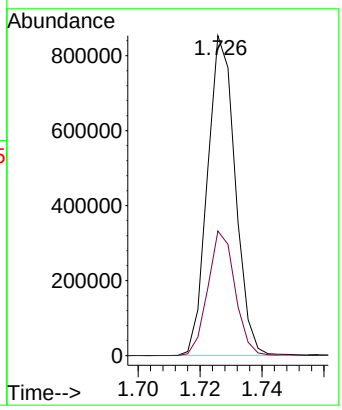




#13
Ethanol
Concen: 145.204 ppbv
RT: 1.726 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 45 Resp: 52985

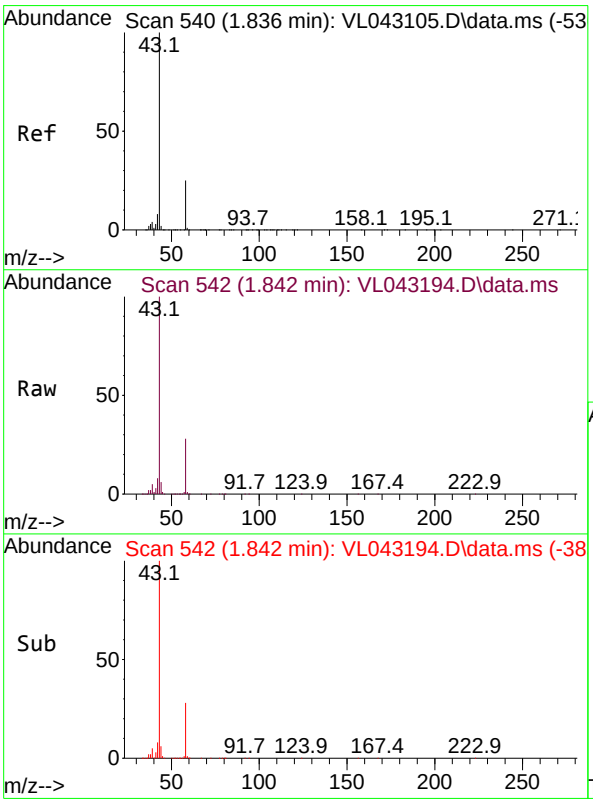
Ion	Ratio	Lower	Upper
45	100		
46	38.6	14.7	58.9



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Manual Integrations
APPROVED

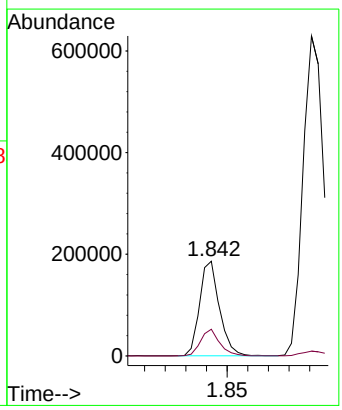
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

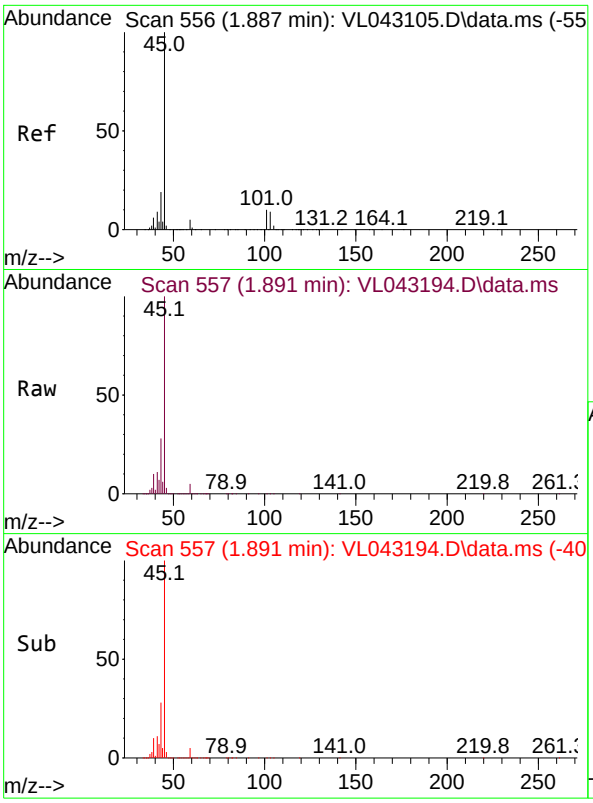


#15
Acetone
Concen: 6.350 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 43 Resp: 123766

Ion	Ratio	Lower	Upper
43	100		
58	27.3	20.8	31.2

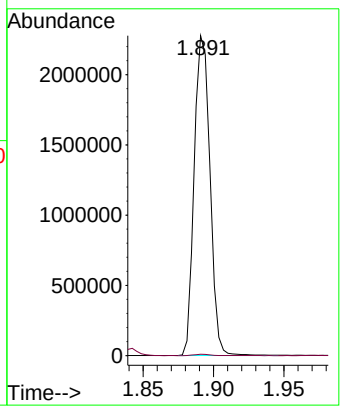




#19
Isopropyl Alcohol
Concen: 146.290 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 45 Resp: 177586

Ion	Ratio	Lower	Upper
45	100		
58	0.4	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

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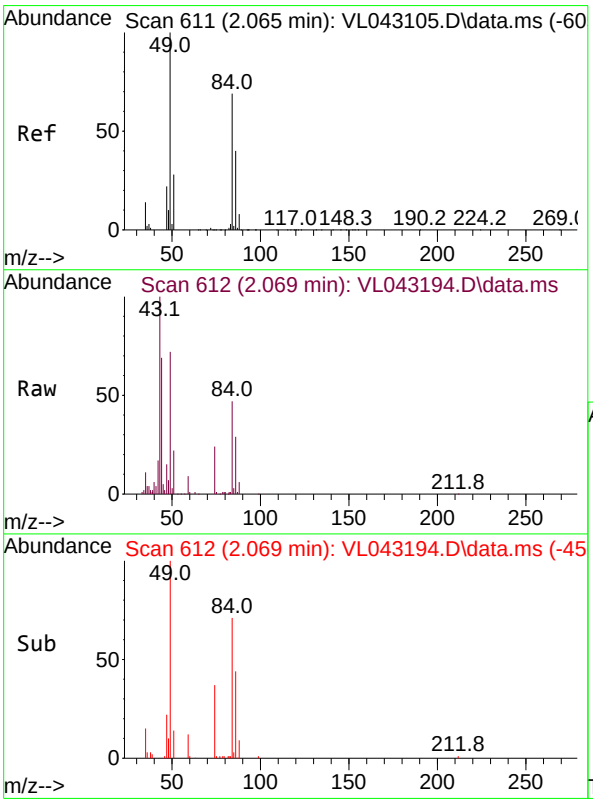
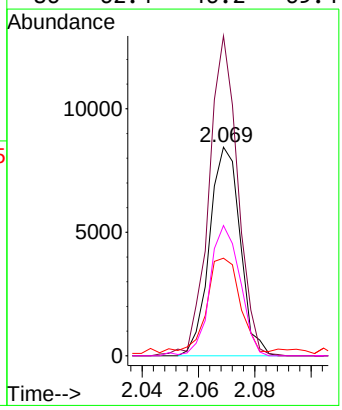
Supervised By :Mahesh Dadoda 11/18/2025

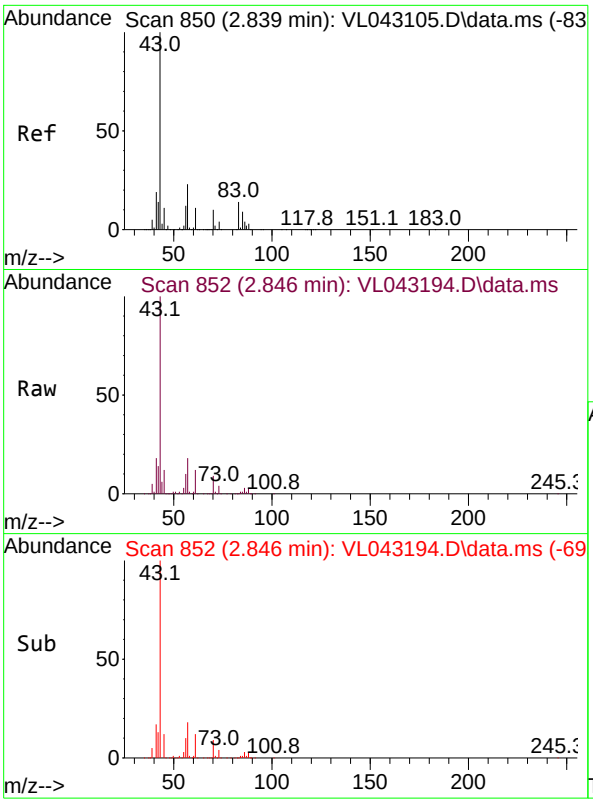


#20
Methylene Chloride
Concen: 0.834 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 84 Resp: 6423

Ion	Ratio	Lower	Upper
84	100		
49	152.6	116.6	175.0
51	44.2	34.8	52.2
86	62.4	46.2	69.4

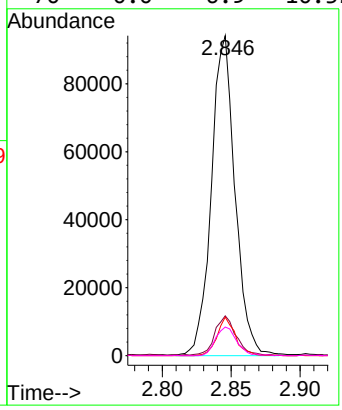




#25
Ethyl Acetate
Concen: 2.327 ppbv m
RT: 2.846 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 43 Resp: 11248

Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	0.0	7.0	10.6#
70	0.0	6.9	10.3#



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

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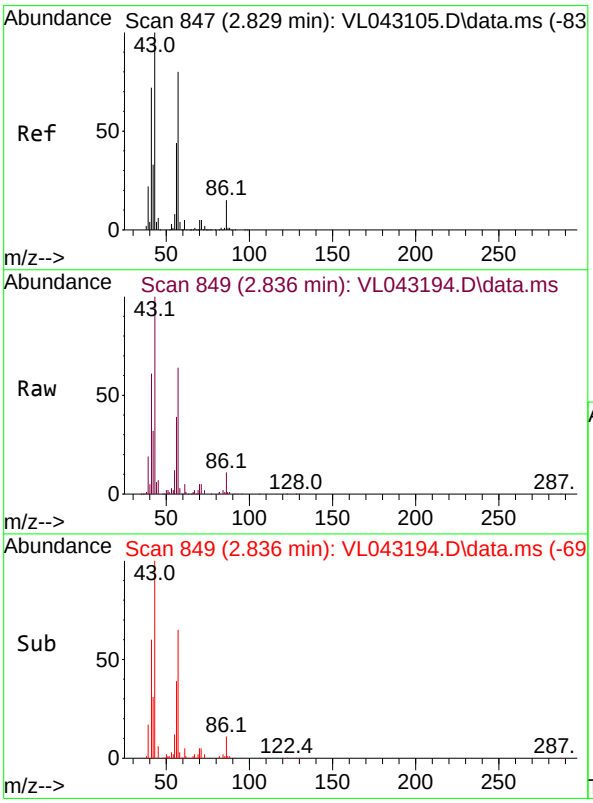
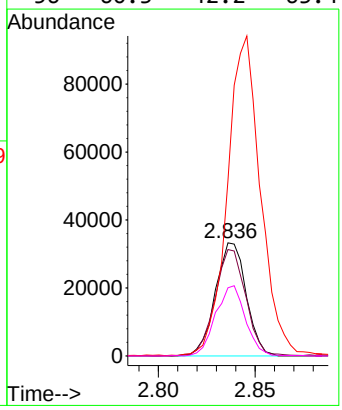
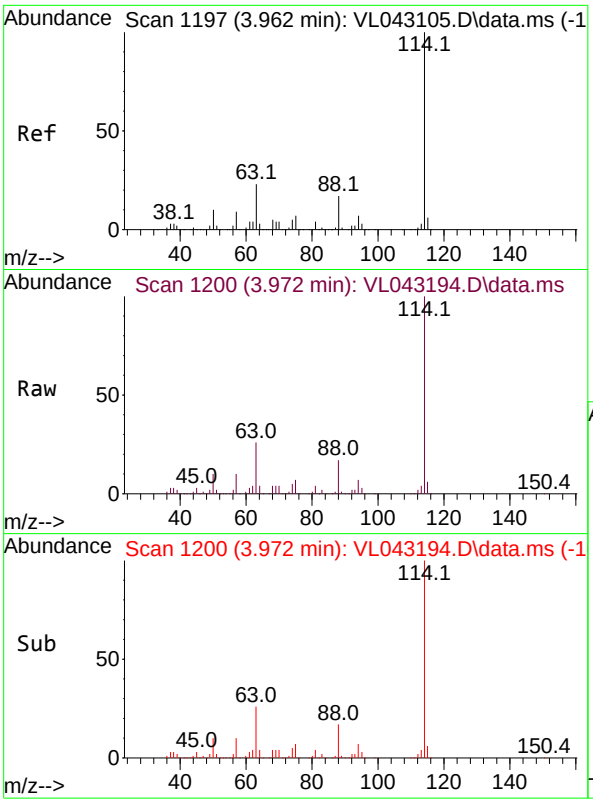


#26
Hexane
Concen: 1.648 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 57 Resp: 36703

Ion	Ratio	Lower	Upper
57	100		
41	95.9	71.4	107.0
43	307.6	178.5	267.7#
56	60.3	42.2	63.4

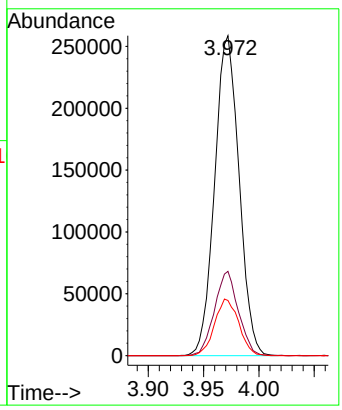




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:114 Resp: 39655

Ion	Ratio	Lower	Upper
114	100		
63	25.8	19.3	28.9
88	17.6	13.9	20.9



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

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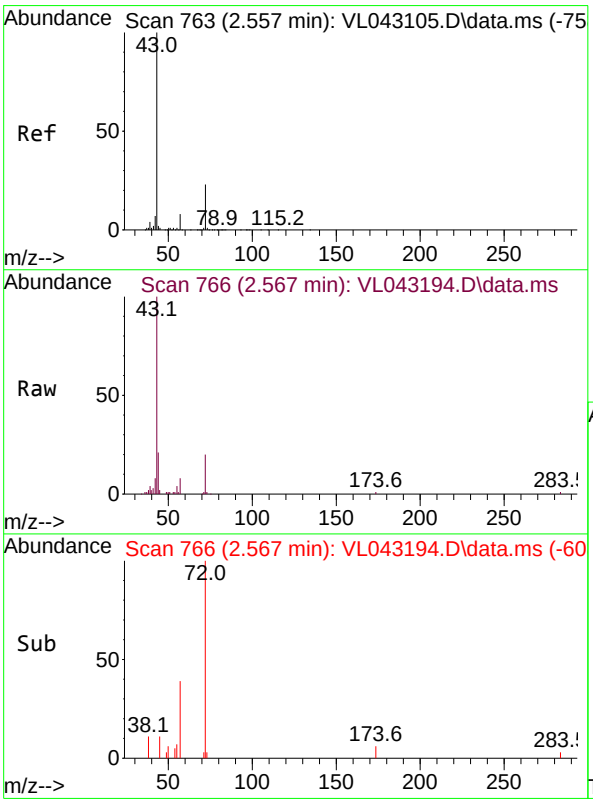
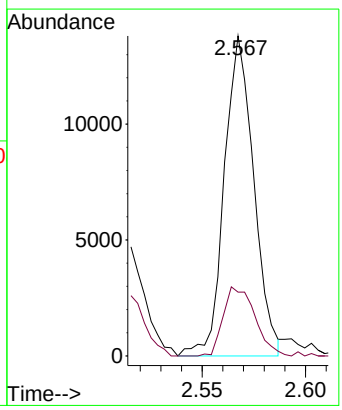
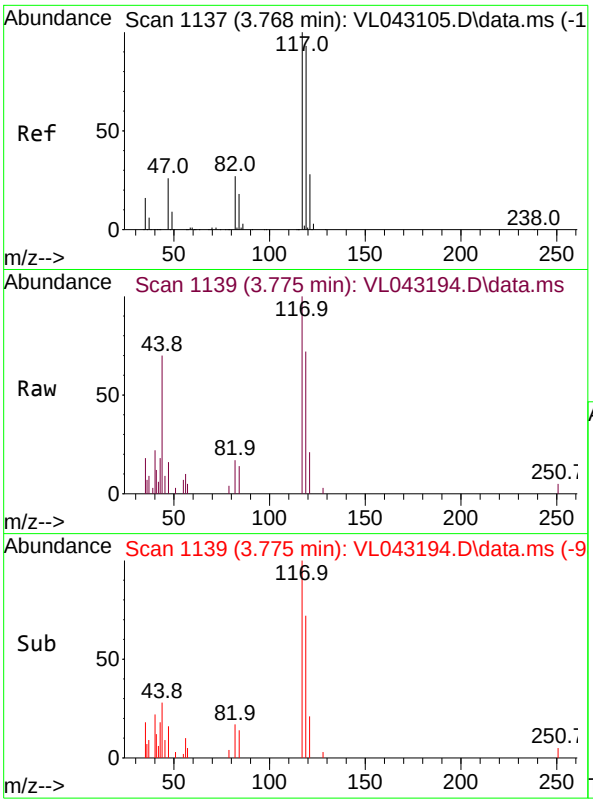


#34
2-Butanone
Concen: 0.515 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 43 Resp: 13729

Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.4	27.6





#35
Carbon Tetrachloride
Concen: 0.091 ppbv m
RT: 3.775 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:117 Resp: 259

Ion	Ratio	Lower	Upper
117	100		
119	72.3	74.1	111.1#
121	20.6	22.2	33.2#

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

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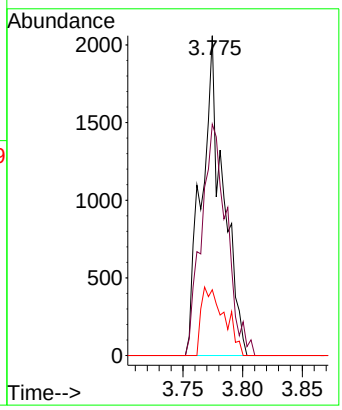
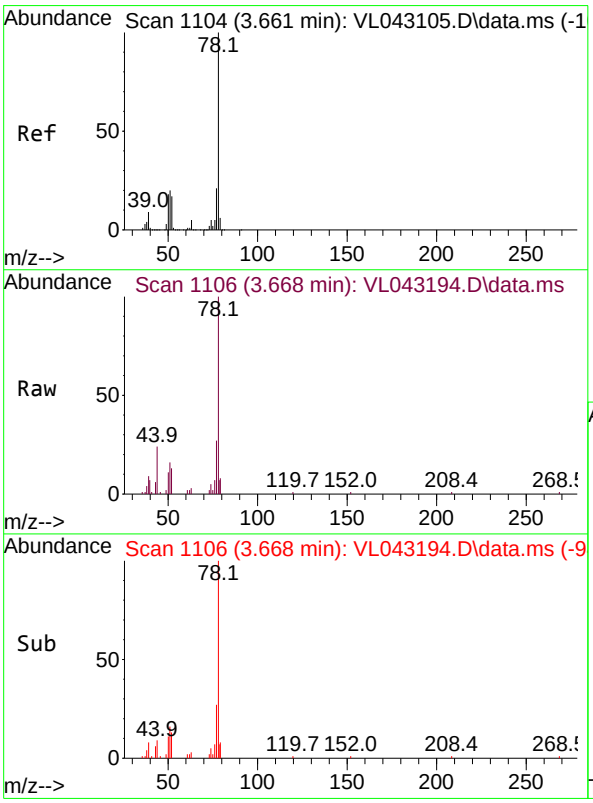
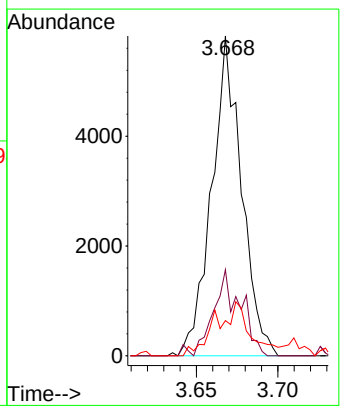


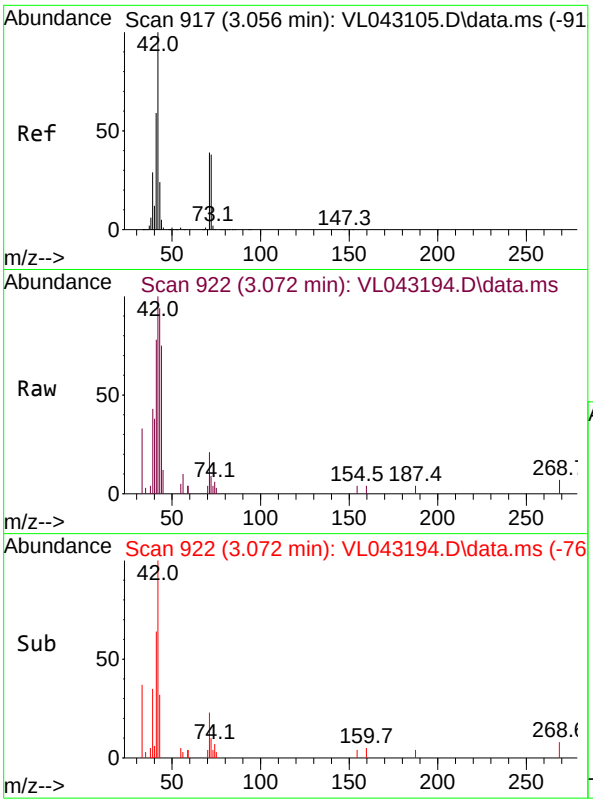


#36
Benzene
Concen: 0.199 ppbv
RT: 3.668 min Scan# 1106
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 78 Resp: 7434

Ion	Ratio	Lower	Upper
78	100		
77	26.9	17.0	25.6#
50	11.0	14.6	22.0#

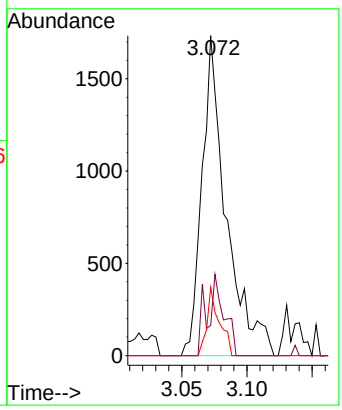




#41
Tetrahydrofuran
Concen: 0.151 ppbv m
RT: 3.072 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 42 Resp: 224

Ion	Ratio	Lower	Upper
42	100		
72	17.5	31.3	46.9#
71	10.9	30.4	45.6#



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

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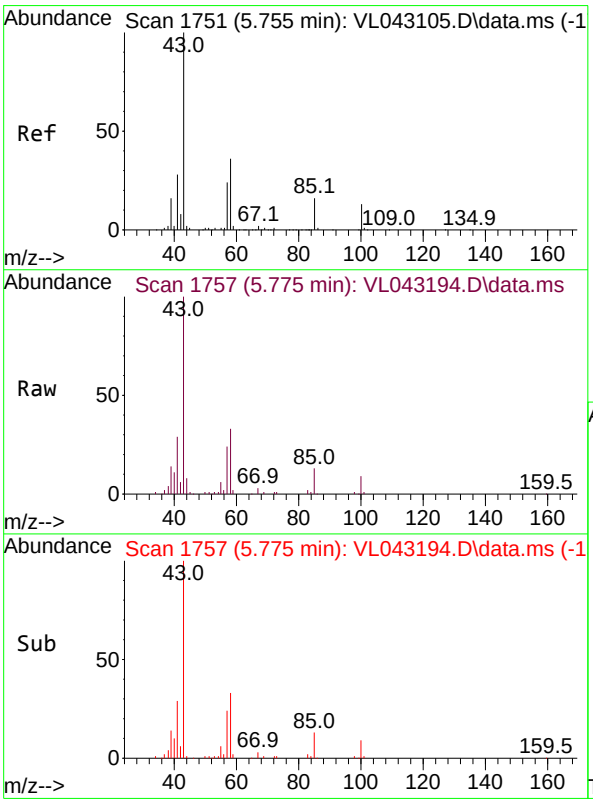
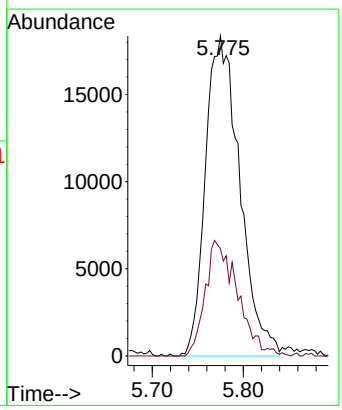
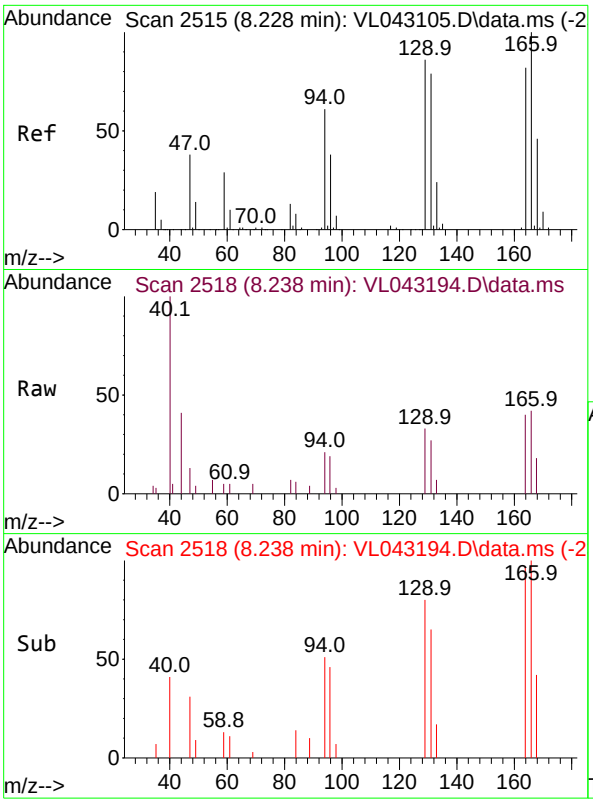


#50
4-Methyl-2-Pentanone
Concen: 1.303 ppbv m
RT: 5.775 min Scan# 1757
Delta R.T. 0.020 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 43 Resp: 47950

Ion	Ratio	Lower	Upper
43	100		
58	34.2	29.1	43.7

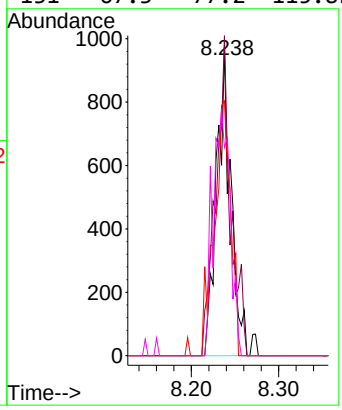




#52
Tetrachloroethene
Concen: 0.084 ppbv m
RT: 8.238 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:164 Resp: 113

Ion	Ratio	Lower	Upper
164	100		
166	103.5	97.6	146.4
129	82.4	84.5	126.7#
131	67.3	77.2	115.8#



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Manual Integrations
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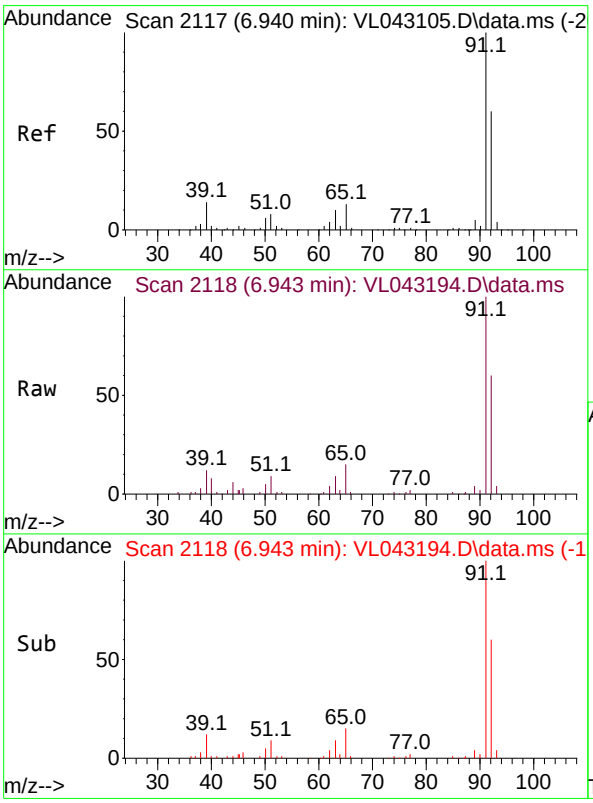
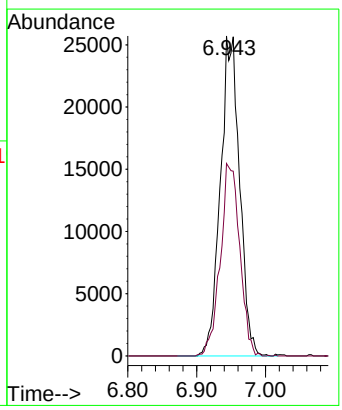
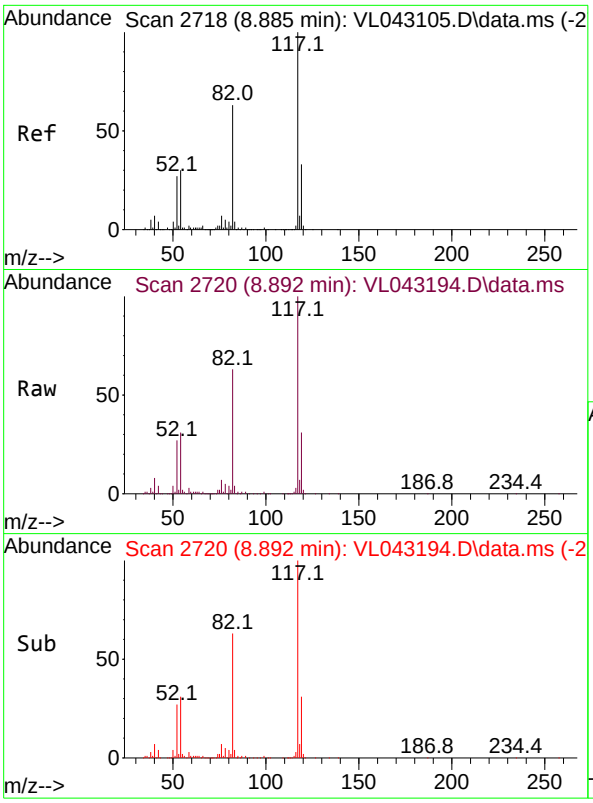


#53
Toluene
Concen: 1.125 ppbv m
RT: 6.943 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 91 Resp: 49889

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.8	73.2#

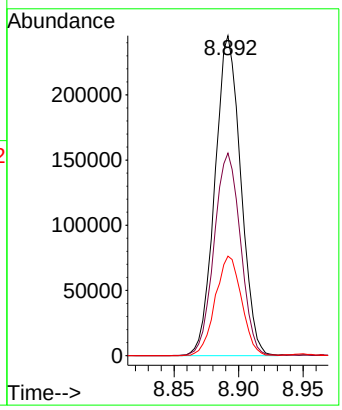




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:117 Resp: 34218

Ion	Ratio	Lower	Upper
117	100		
82	64.6	53.8	80.8
119	31.6	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

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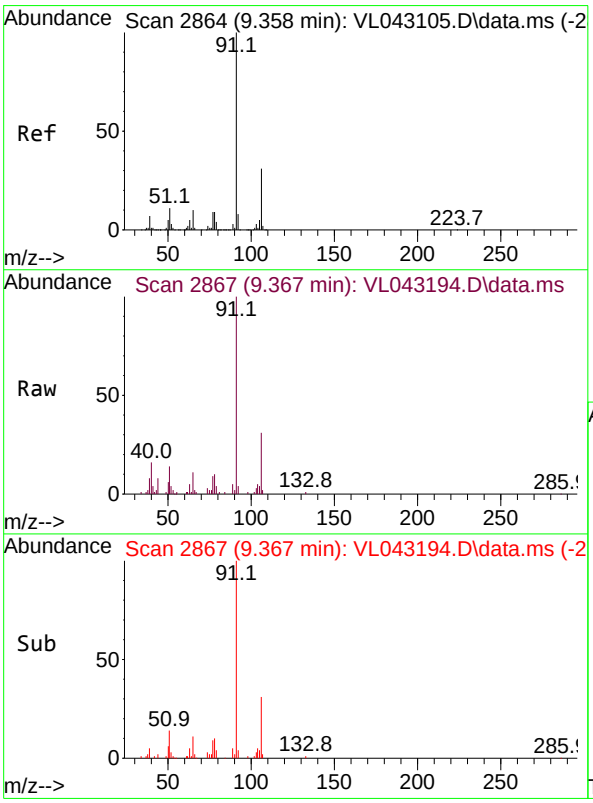
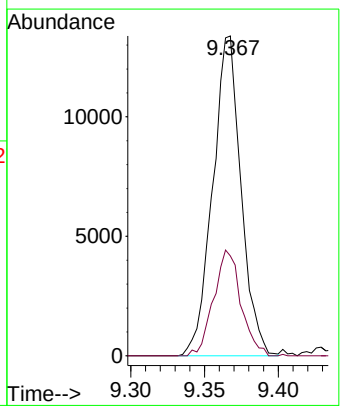
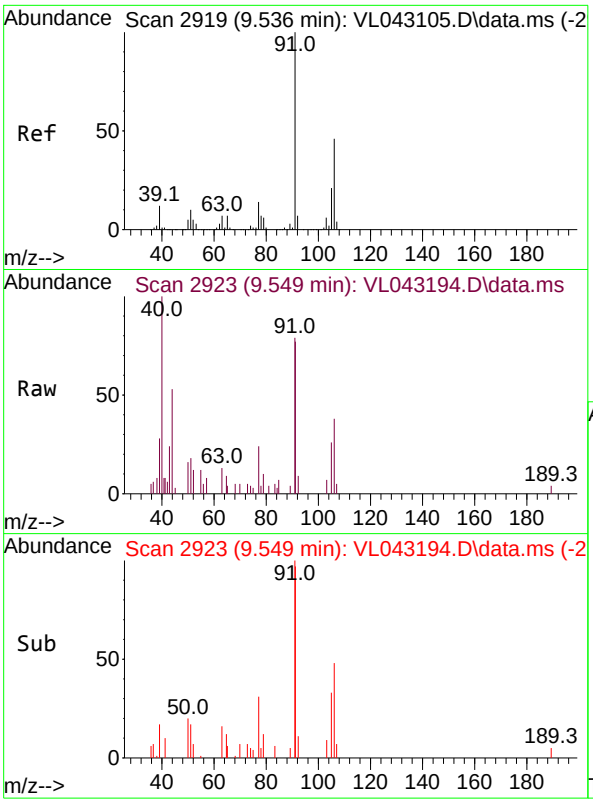


#58
Ethyl Benzene
Concen: 0.305 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.010 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 91 Resp: 17904

Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.8	37.2





#59
m/p-Xylene
Concen: 0.108 ppbv m
RT: 9.549 min Scan# 29
Delta R.T. 0.013 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 91 Resp: 506

Ion	Ratio	Lower	Upper
91	100		
106	43.6	38.0	57.0

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

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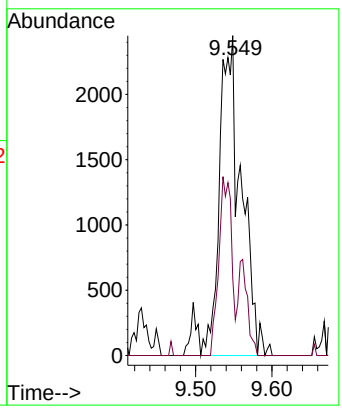
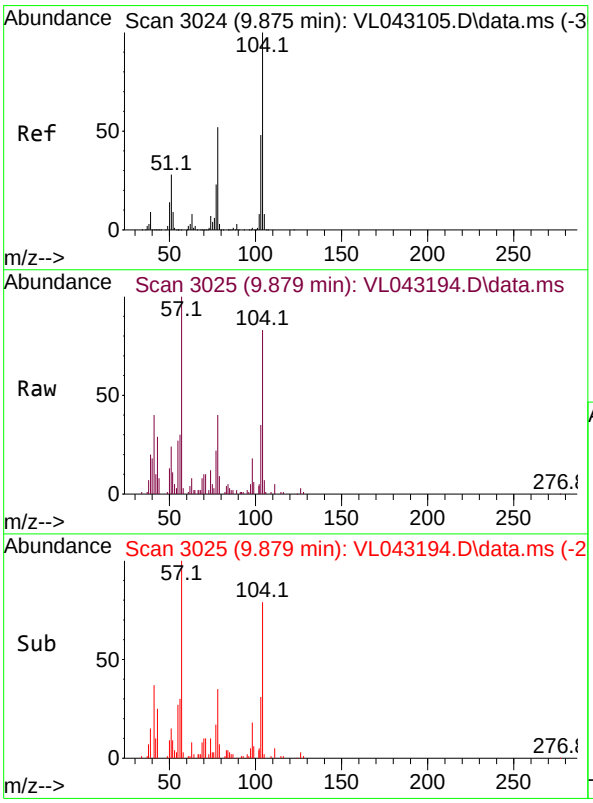
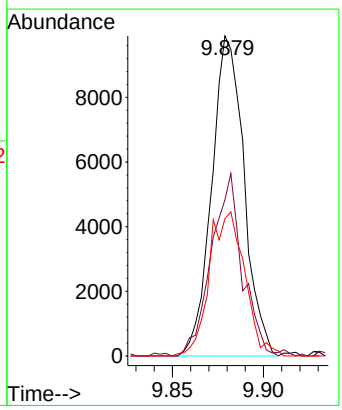


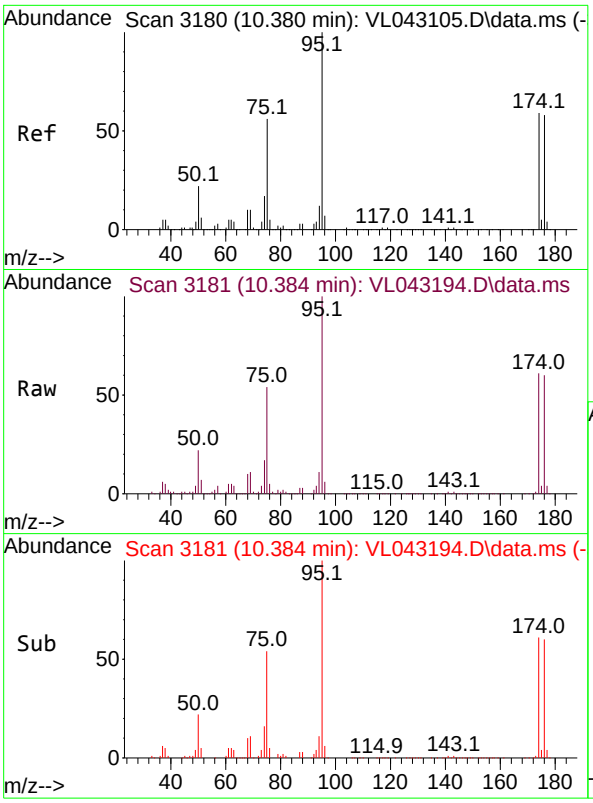


#61
Styrene
Concen: 0.585 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:104 Resp: 12213

Ion	Ratio	Lower	Upper
104	100		
78	55.4	40.2	60.2
103	49.3	36.9	55.3

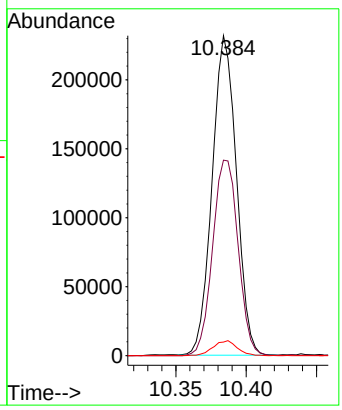




#68
1-Bromo-4-Fluorobenzene
Concen: 10.466 ppbv
RT: 10.384 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 95 Resp: 27837

Ion	Ratio	Lower	Upper
95	100		
174	64.4	48.3	72.5
175	4.6	3.8	5.8



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	AA-East	SDG No.:	Q3627
Lab Sample ID:	Q3627-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.44	2.18	J	1	0.54	2.47	11/13/25 13:40	VL111325
74-87-3	Chloromethane	0.56	1.16		1	0.21	1.03	11/13/25 13:40	VL111325
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/13/25 13:40	VL111325
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/13/25 13:40	VL111325
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/13/25 13:40	VL111325
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	11/13/25 13:40	VL111325
75-69-4	Trichlorofluoromethane	0.22	1.24	J	1	0.96	2.81	11/13/25 13:40	VL111325
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/13/25 13:40	VL111325
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/13/25 13:40	VL111325
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/13/25 13:40	VL111325
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/13/25 13:40	VL111325
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/13/25 13:40	VL111325
67-64-1	Acetone	3.50	8.31		1	0.43	1.19	11/13/25 13:40	VL111325
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/13/25 13:40	VL111325
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/13/25 13:40	VL111325
75-09-2	Methylene Chloride	0.70	2.43		1	0.80	1.74	11/13/25 13:40	VL111325
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/13/25 13:40	VL111325
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/13/25 13:40	VL111325
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/13/25 13:40	VL111325
78-93-3	2-Butanone	0.27	0.80	J	1	0.18	1.47	11/13/25 13:40	VL111325
56-23-5	Carbon Tetrachloride	0.080	0.50		1	0.19	0.19	11/13/25 13:40	VL111325
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/13/25 13:40	VL111325
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	11/13/25 13:40	VL111325
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/13/25 13:40	VL111325
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/13/25 13:40	VL111325
71-43-2	Benzene	0.12	0.38	J	1	0.26	1.60	11/13/25 13:40	VL111325
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	11/13/25 13:40	VL111325
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/13/25 13:40	VL111325
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/13/25 13:40	VL111325
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/13/25 13:40	VL111325
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	11/13/25 13:40	VL111325
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	11/13/25 13:40	VL111325
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/13/25 13:40	VL111325
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/13/25 13:40	VL111325
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/13/25 13:40	VL111325
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/13/25 13:40	VL111325
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/13/25 13:40	VL111325
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/13/25 13:40	VL111325
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/13/25 13:40	VL111325
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/13/25 13:40	VL111325
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/13/25 13:40	VL111325
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/13/25 13:40	VL111325
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	11/13/25 13:40	VL111325
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/13/25 13:40	VL111325
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/13/25 13:40	VL111325
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/13/25 13:40	VL111325

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	AA-East	SDG No.:	Q3627
Lab Sample ID:	Q3627-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3		Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46		11/13/25 13:40	VL111325
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46		11/13/25 13:40	VL111325
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01		11/13/25 13:40	VL111325
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01		11/13/25 13:40	VL111325
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01		11/13/25 13:40	VL111325
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71		11/13/25 13:40	VL111325
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33		11/13/25 13:40	VL111325
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11		11/13/25 13:40	VL111325
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52		11/13/25 13:40	VL111325
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46		11/13/25 13:40	VL111325
110-54-3	Hexane	0.56	1.97		1	0.56	1.76		11/13/25 13:40	VL111325
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57		11/13/25 13:40	VL111325
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80		11/13/25 13:40	VL111325
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05		11/13/25 13:40	VL111325
SURROGATES										
460-00-4	1-Bromo-4-Fluorobenzene	9.60				70 (65) - 130	96%	SPK: 10		
INTERNAL STANDARDS		**Area Count**								
74-97-5	Bromochloromethane	141000								
540-36-3	1,4-Difluorobenzene	362000								
3114-55-4	Chlorobenzene-d5	304000								

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\VL111325\
Data File : VL043197.D
Acq On : 13 Nov 2025 13:40
Operator : SY/MD
Sample : Q3627-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	141257	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	362075	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	303679	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	226539	9.597	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8904	0.443	ppbv		94
3) Chlorodifluoromethane	1.479	51	5542m	0.255	ppbv		
4) Chloromethane	1.534	50	4432	0.557	ppbv		98
9) Propene	1.486	41	5122m	0.532	ppbv		
11) Trichlorofluoromethane	1.884	101	4396	0.224	ppbv		96
13) Ethanol	1.725	45	7682	2.155	ppbv	#	38
15) Acetone	1.839	43	66035	3.468	ppbv		99
19) Isopropyl Alcohol	1.890	45	27214	2.295	ppbv	#	64
20) Methylene Chloride	2.068	84	5239	0.696	ppbv		93
26) Hexane	2.835	57	12272	0.564	ppbv	#	40
34) 2-Butanone	2.564	43	6473	0.266	ppbv		96
35) Carbon Tetrachloride	3.768	117	2039m	0.078	ppbv		
36) Benzene	3.664	78	4088	0.120	ppbv	#	94
53) Toluene	6.936	91	4772m	0.118	ppbv		

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

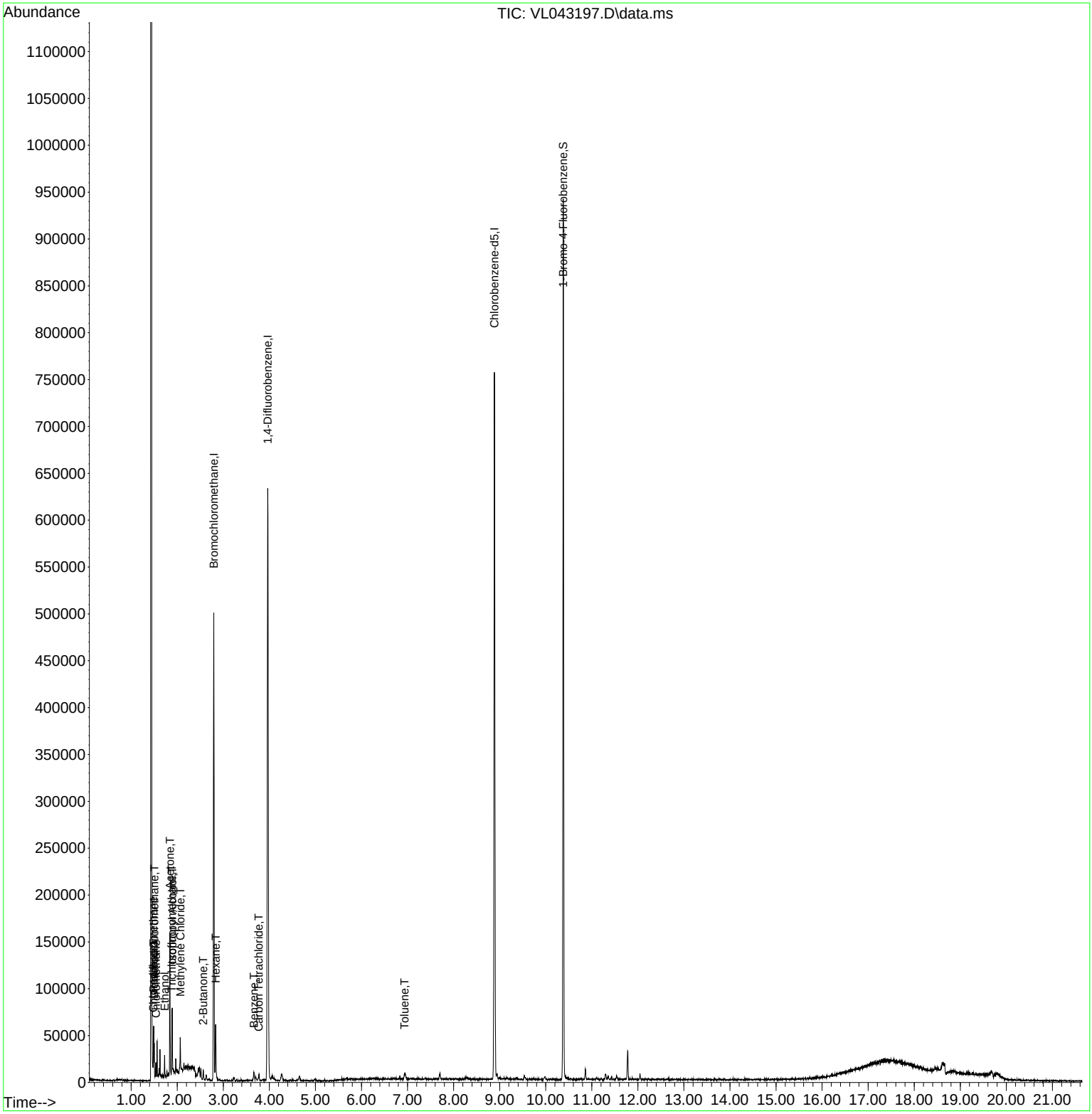
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043197.D
Acq On : 13 Nov 2025 13:40
Operator : SY/MD
Sample : Q3627-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

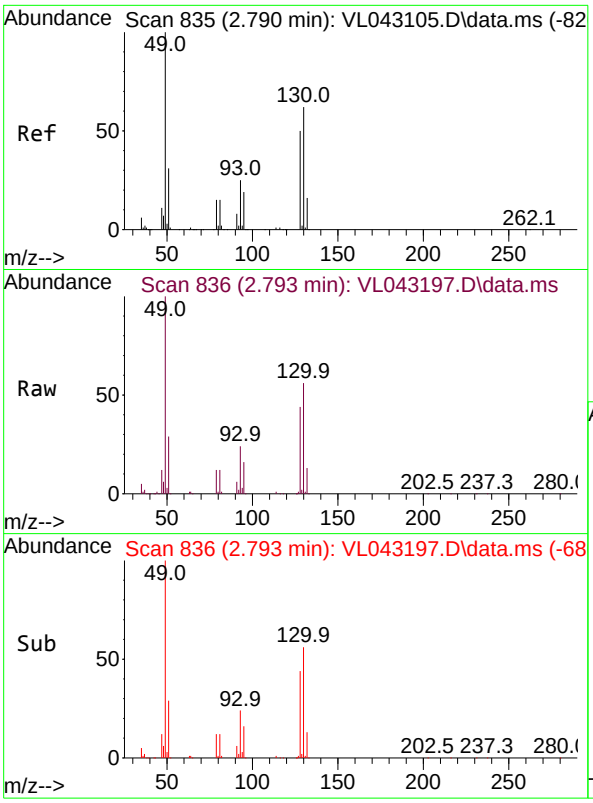
Quant Time: Nov 14 04:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

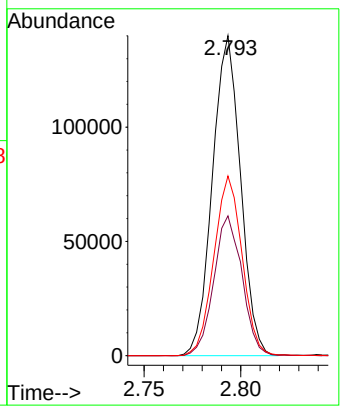




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 49 Resp: 14125

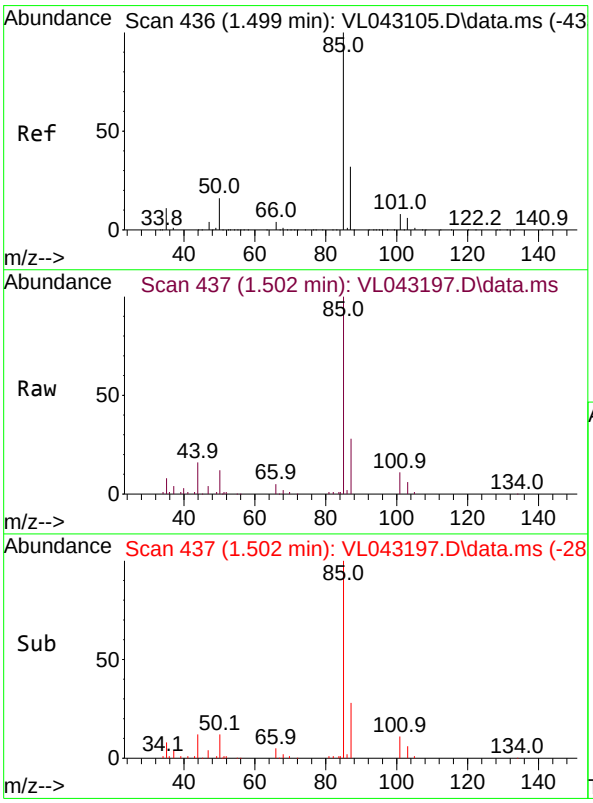
Ion	Ratio	Lower	Upper
49	100		
128	43.9	24.4	73.4
130	56.5	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
AA-East

Manual Integrations
APPROVED

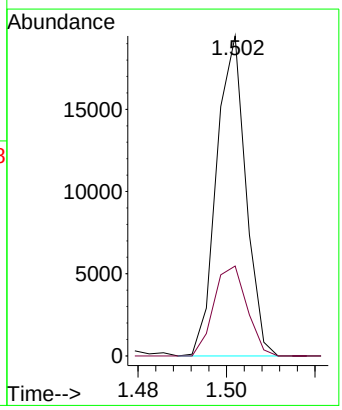
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

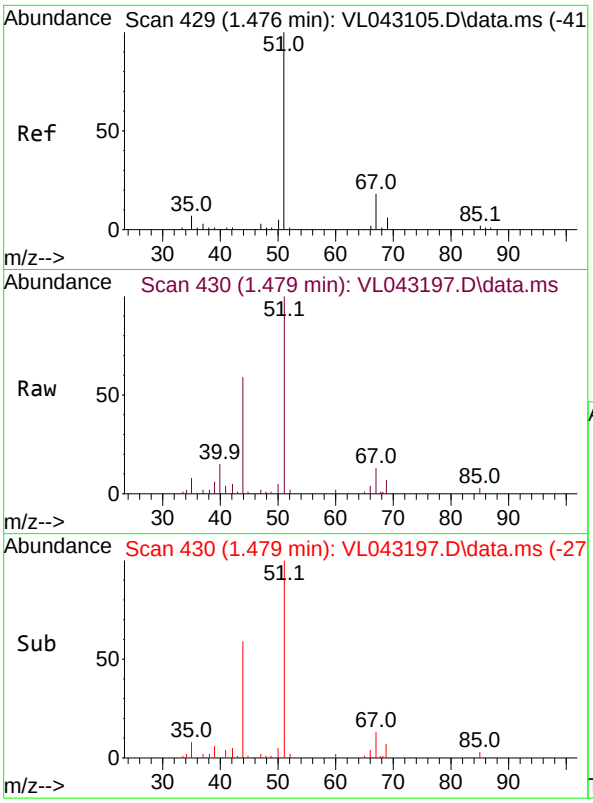


#2
Dichlorodifluoromethane
Concen: 0.443 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 85 Resp: 8904

Ion	Ratio	Lower	Upper
85	100		
87	28.1	25.3	37.9

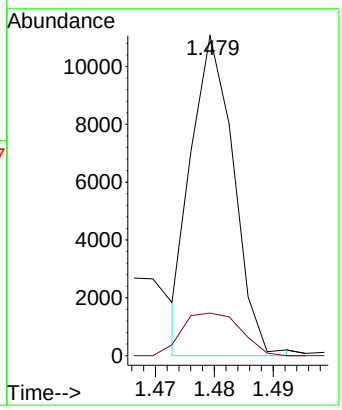




#3
Chlorodifluoromethane
Concen: 0.255 ppbv m
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 51 Resp: 554

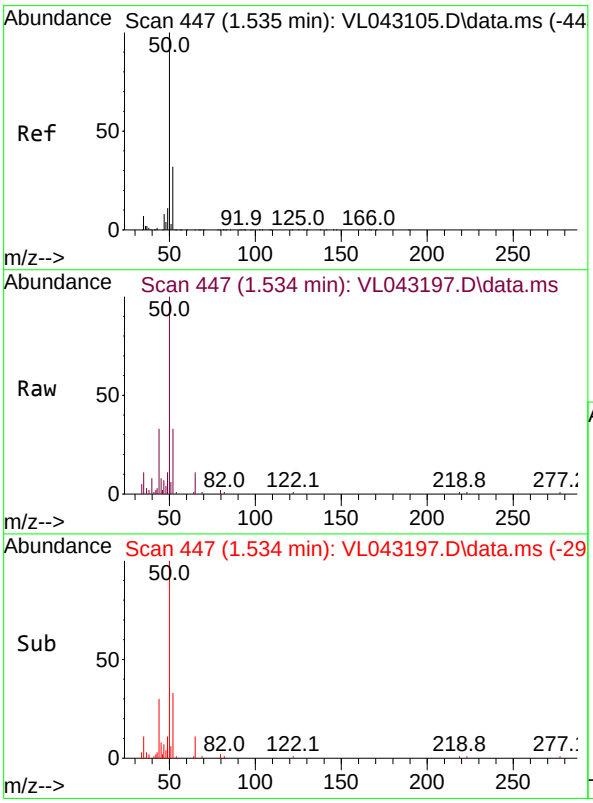
Ion	Ratio	Lower	Upper
51	100		
67	19.6	15.1	22.7



Instrument :
MSVOA_L
ClientSampleId :
AA-East

Manual Integrations
APPROVED

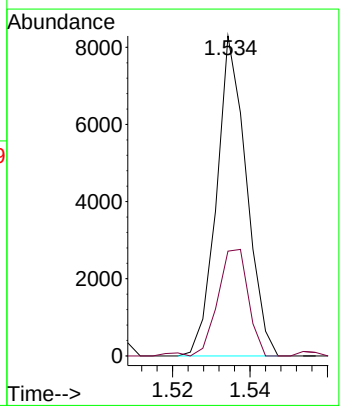
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

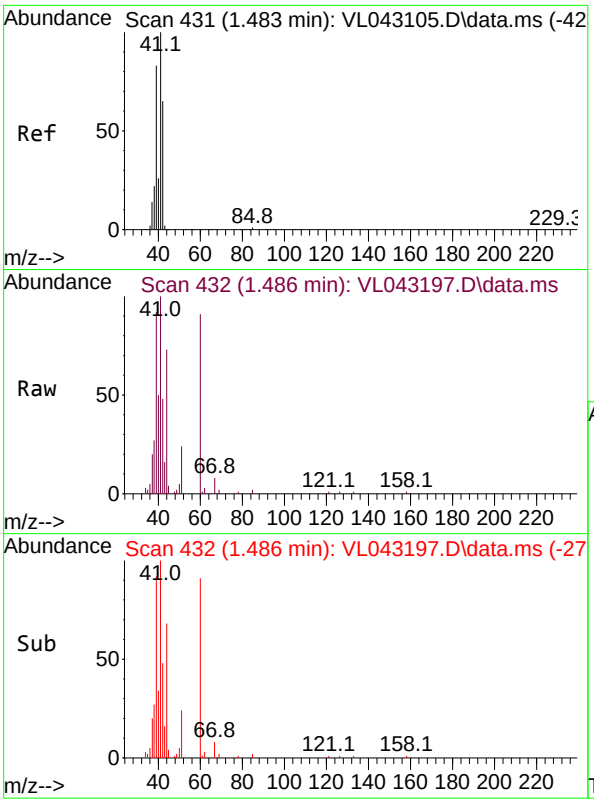


#4
Chloromethane
Concen: 0.557 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 50 Resp: 4432

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.2	37.8

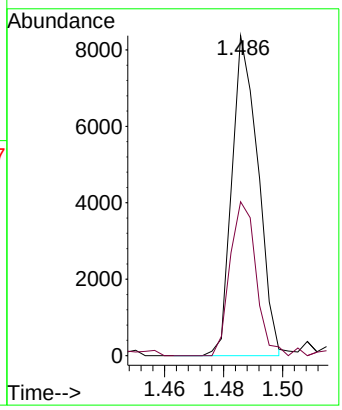




#9
Propene
Concen: 0.532 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 41 Resp: 512

Ion	Ratio	Lower	Upper
41	100		
42	36.8	55.1	82.7#



Instrument :
MSVOA_L
ClientSampleId :
AA-East

Manual Integrations
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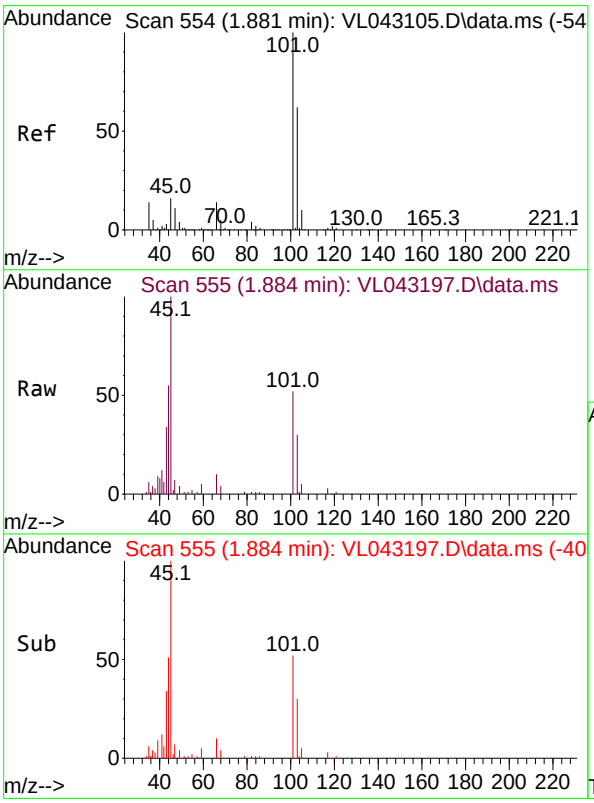
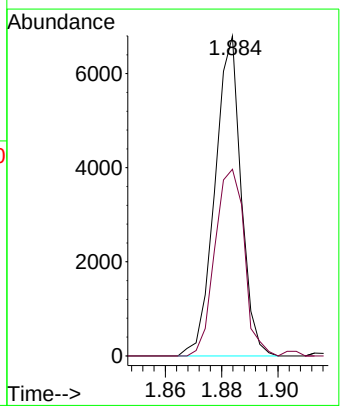
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

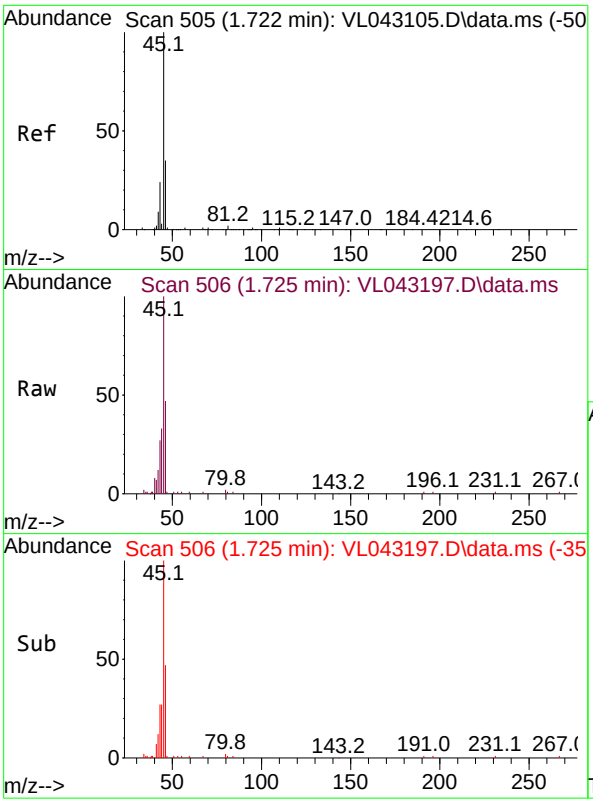


#11
Trichlorofluoromethane
Concen: 0.224 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion:101 Resp: 4396

Ion	Ratio	Lower	Upper
101	100		
103	58.3	49.3	73.9





#13
Ethanol
Concen: 2.155 ppbv
RT: 1.725 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

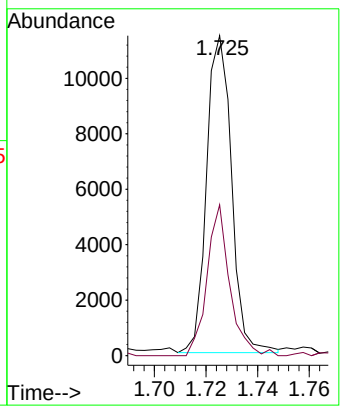
Tgt Ion: 45 Resp: 768

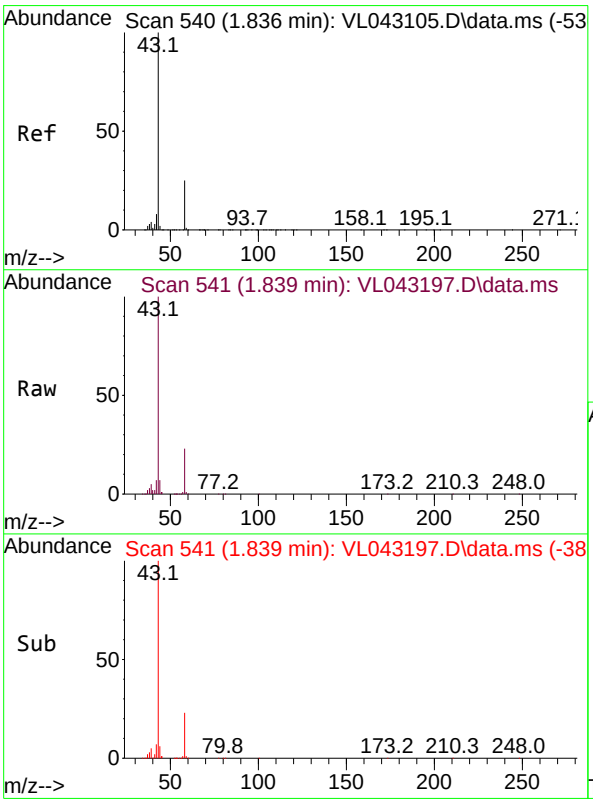
Ion	Ratio	Lower	Upper
45	100		
46	0.0	14.7	58.9#

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

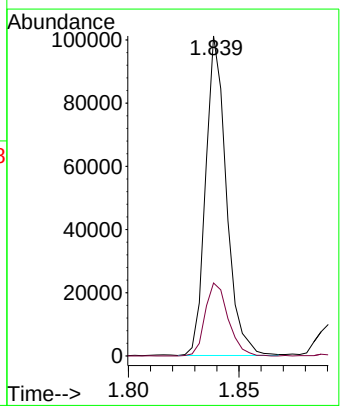


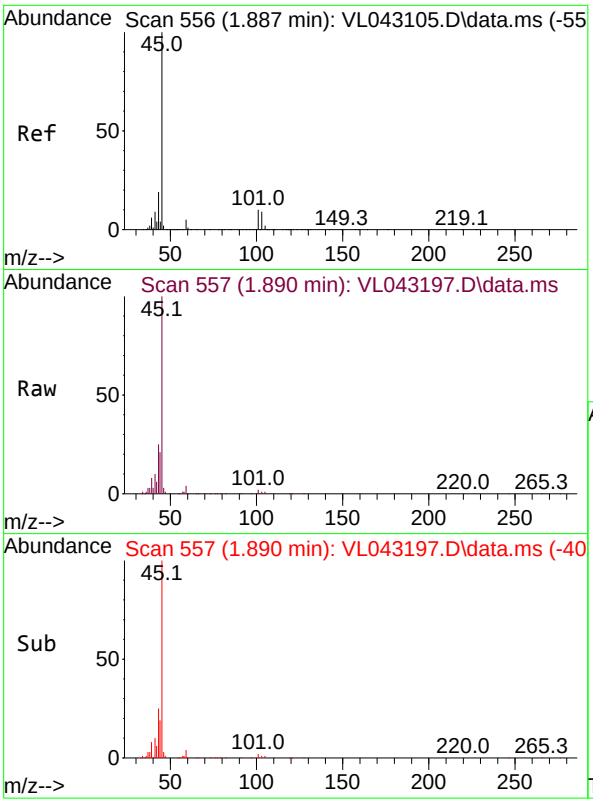


#15
Acetone
Concen: 3.468 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 43 Resp: 66035

Ion	Ratio	Lower	Upper
43	100		
58	25.3	20.8	31.2

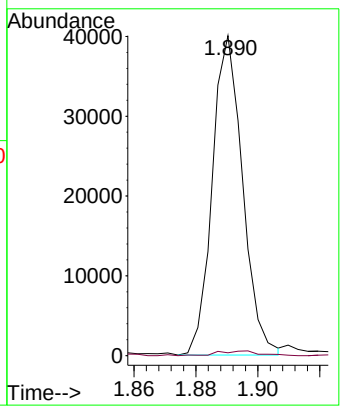




#19
Isopropyl Alcohol
Concen: 2.295 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 45 Resp: 2721

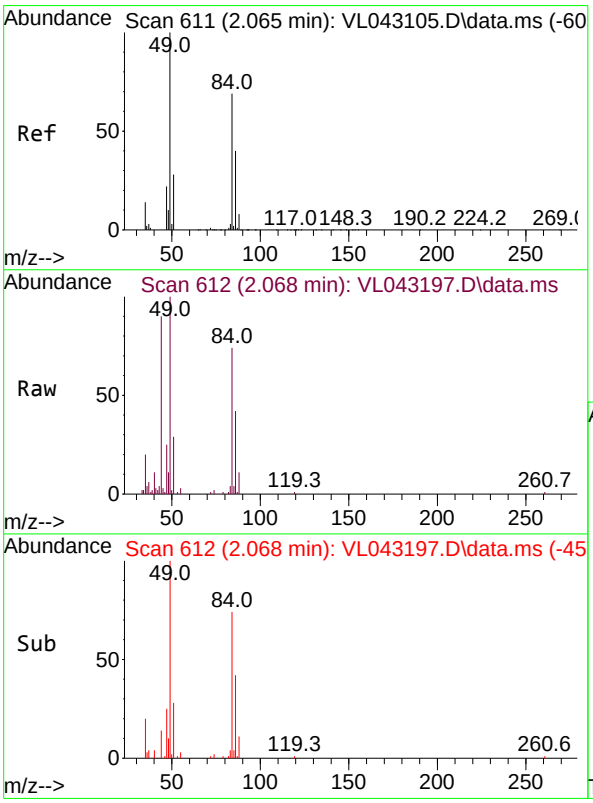
Ion	Ratio	Lower	Upper
45	100		
58	61.3	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
AA-East

Manual Integrations
APPROVED

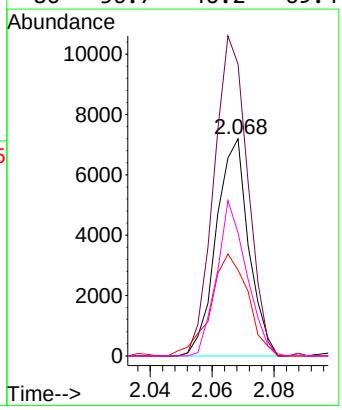
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

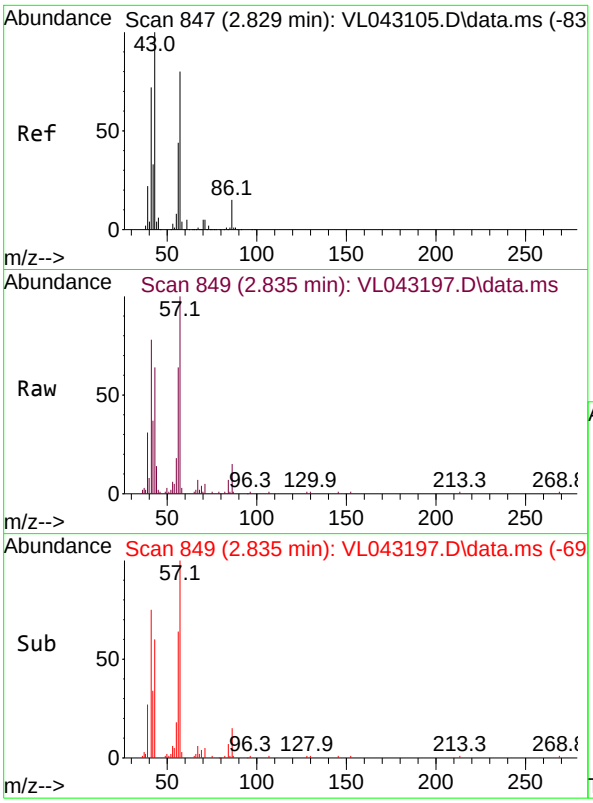


#20
Methylene Chloride
Concen: 0.696 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 84 Resp: 5239

Ion	Ratio	Lower	Upper
84	100		
49	134.4	116.6	175.0
51	39.5	34.8	52.2
86	56.7	46.2	69.4

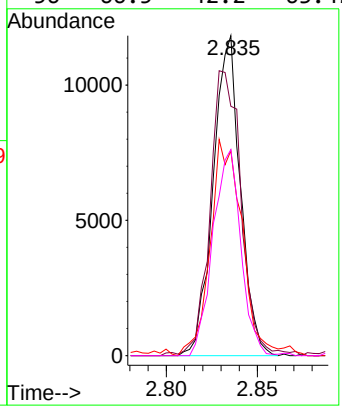




#26
Hexane
Concen: 0.564 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 57 Resp: 1227

Ion	Ratio	Lower	Upper
57	100		
41	101.7	71.4	107.0
43	80.1	178.5	267.7#
56	66.5	42.2	63.4#



Instrument :
MSVOA_L
ClientSampleId :
AA-East

Manual Integrations
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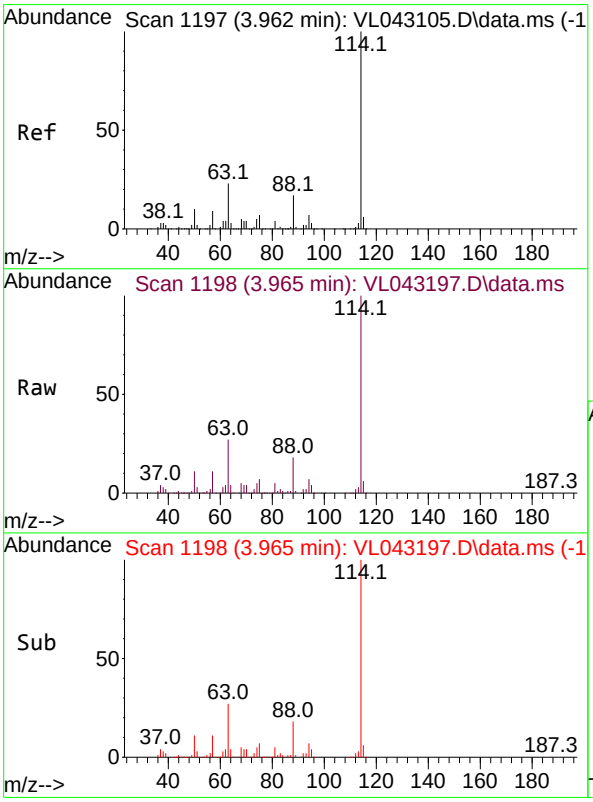
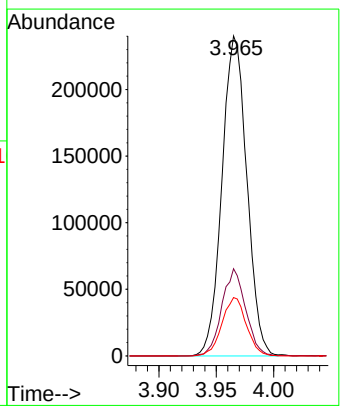
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

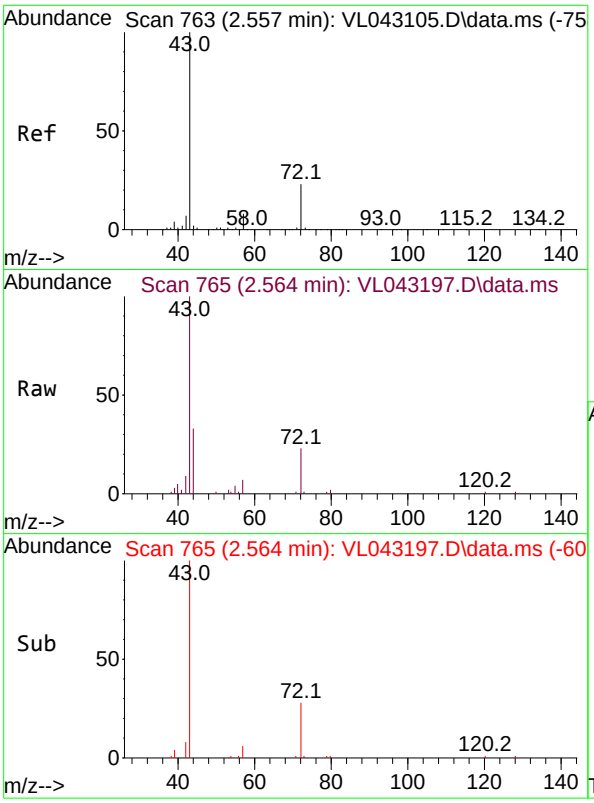


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion:114 Resp: 362075

Ion	Ratio	Lower	Upper
114	100		
63	26.1	19.3	28.9
88	17.8	13.9	20.9





#34
2-Butanone
Concen: 0.266 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 43 Resp: 647

Ion	Ratio	Lower	Upper
43	100		
72	25.2	18.4	27.6

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Manual Integrations
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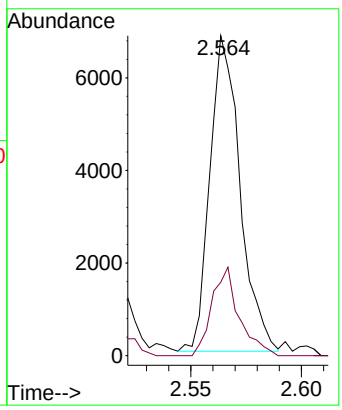
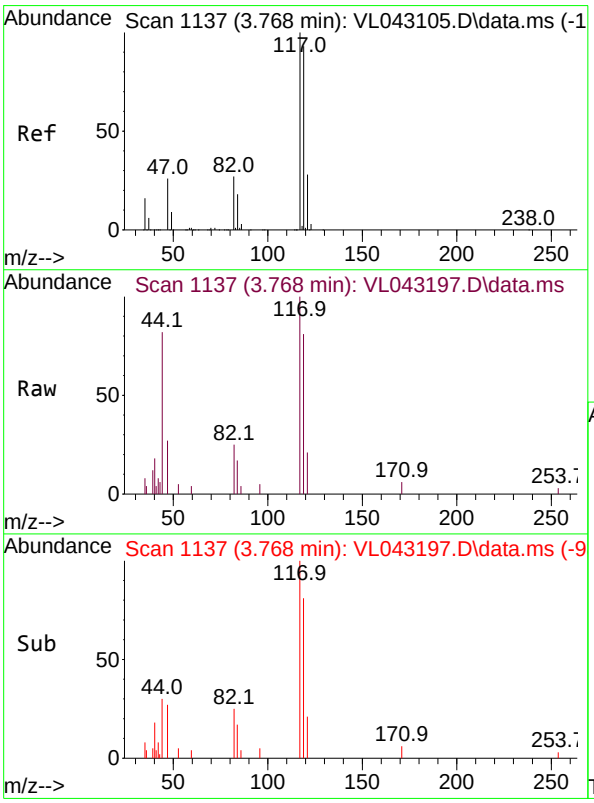
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

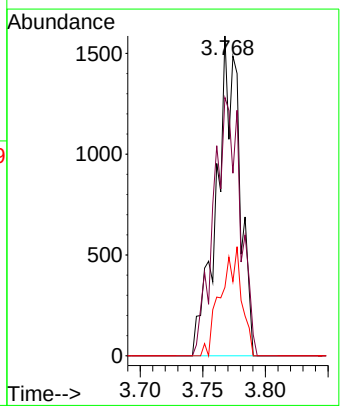


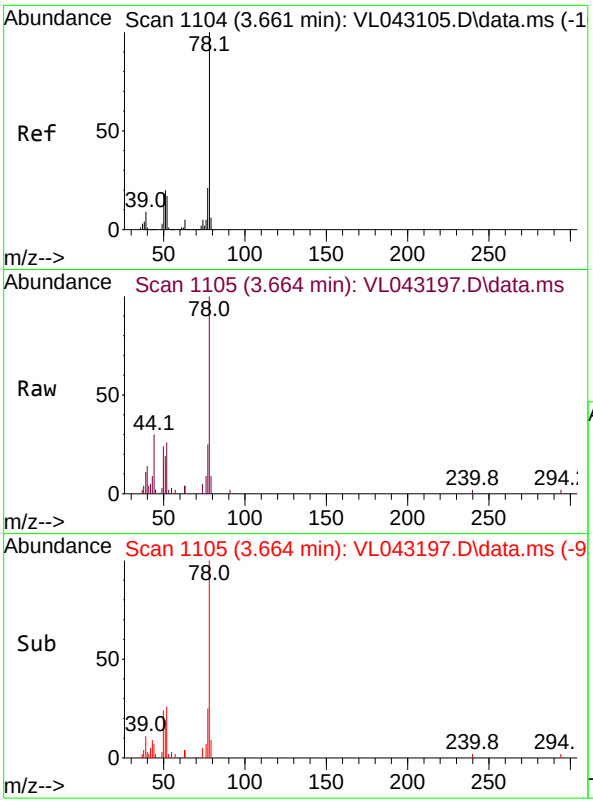


#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion:117 Resp: 2039

Ion	Ratio	Lower	Upper
117	100		
119	80.7	74.1	111.1
121	21.4	22.2	33.2#

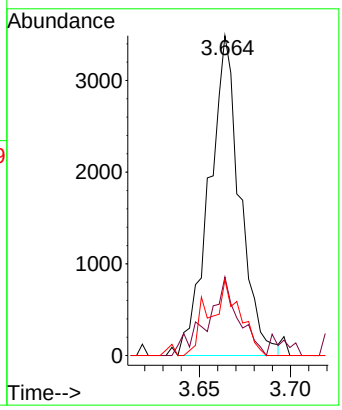




#36
Benzene
Concen: 0.120 ppbv
RT: 3.664 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 78 Resp: 408

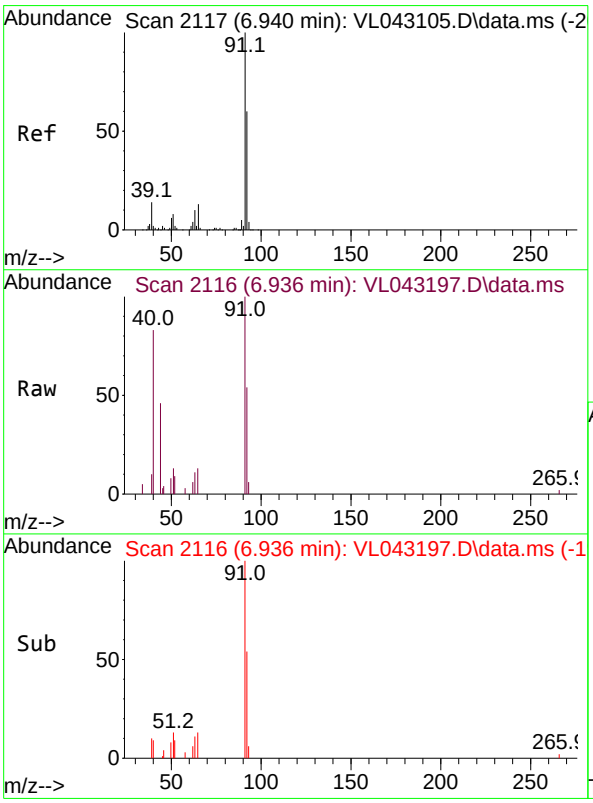
Ion	Ratio	Lower	Upper
78	100		
77	21.5	17.0	25.6
50	23.7	14.6	22.0#



Instrument :
MSVOA_L
ClientSampleId :
AA-East

Manual Integrations
APPROVED

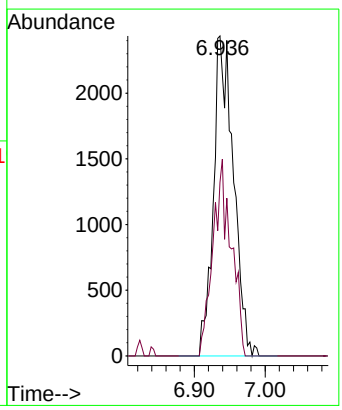
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

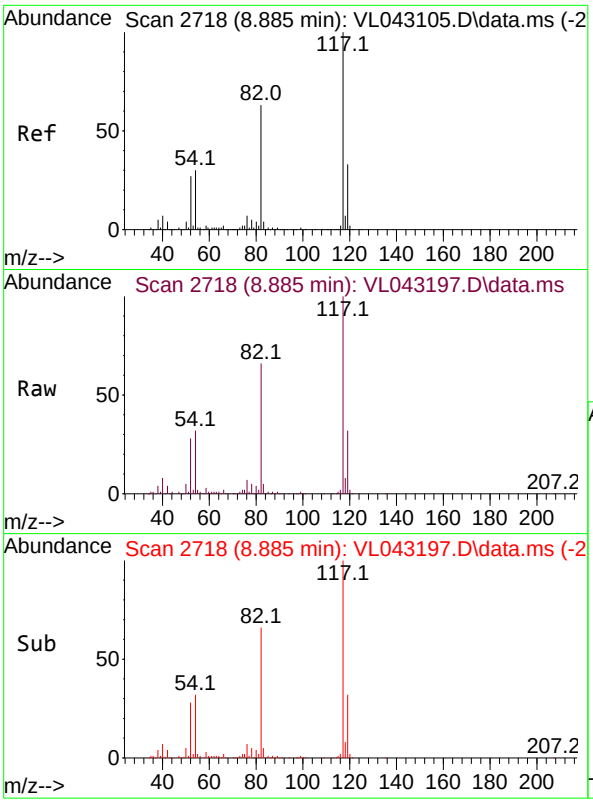


#53
Toluene
Concen: 0.118 ppbv m
RT: 6.936 min Scan# 2116
Delta R.T. -0.004 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 91 Resp: 4772

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.8	73.2#

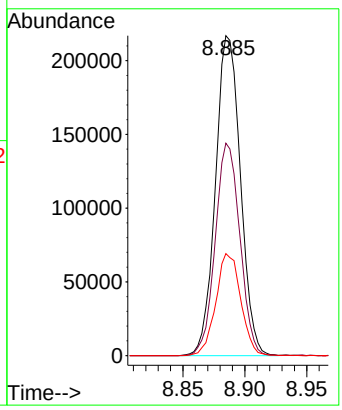




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

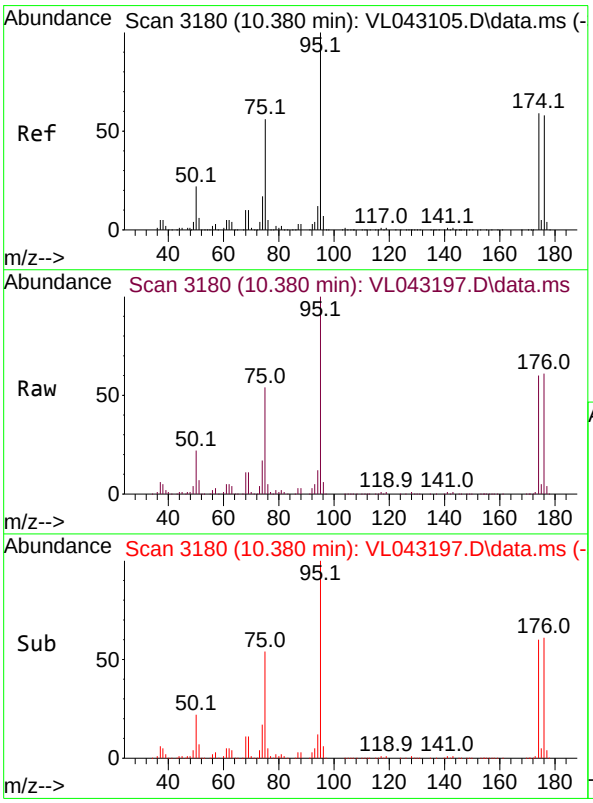
Tgt Ion:117 Resp: 303679

Ion	Ratio	Lower	Upper
117	100		
82	65.4	53.8	80.8
119	31.8	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
AA-East

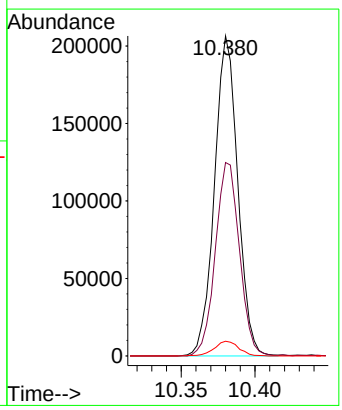
Manual Integrations
APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.597 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 95 Resp: 226539

Ion	Ratio	Lower	Upper
95	100		
174	62.7	48.3	72.5
175	4.8	3.8	5.8



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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-8-SS-1	SDG No.:	Q3627
Lab Sample ID:	Q3627-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.51	2.52	J	2	1.09	4.94	11/13/25 15:23	VL111325
74-87-3	Chloromethane	0.20	0.41	U	2	0.41	2.07	11/13/25 15:23	VL111325
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/13/25 15:23	VL111325
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/13/25 15:23	VL111325
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/13/25 15:23	VL111325
109-99-9	Tetrahydrofuran	0.44	1.30	J	2	0.47	2.95	11/13/25 15:23	VL111325
75-69-4	Trichlorofluoromethane	0.61	3.43	J	2	1.91	5.62	11/13/25 15:23	VL111325
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/13/25 15:23	VL111325
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/13/25 15:23	VL111325
75-65-0	tert-Butyl alcohol	2.20	6.67		2	0.97	3.03	11/13/25 15:23	VL111325
142-82-5	Heptane	0.34	1.39	U	2	1.39	4.10	11/13/25 15:23	VL111325
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/13/25 15:23	VL111325
67-64-1	Acetone	53.8	128	E	2	0.86	2.38	11/13/25 15:23	VL111325
75-15-0	Carbon Disulfide	0.92	2.86	J	2	0.50	3.11	11/13/25 15:23	VL111325
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/13/25 15:23	VL111325
75-09-2	Methylene Chloride	2.20	7.64		2	1.60	3.47	11/13/25 15:23	VL111325
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/13/25 15:23	VL111325
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/13/25 15:23	VL111325
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/13/25 15:23	VL111325
78-93-3	2-Butanone	5.40	15.9		2	0.32	2.95	11/13/25 15:23	VL111325
56-23-5	Carbon Tetrachloride	2.30	14.5		2	0.31	0.38	11/13/25 15:23	VL111325
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/13/25 15:23	VL111325
67-66-3	Chloroform	0.47	2.30	J	2	0.93	4.88	11/13/25 15:23	VL111325
71-55-6	1,1,1-Trichloroethane	0.080	0.44		2	0.16	0.33	11/13/25 15:23	VL111325
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/13/25 15:23	VL111325
71-43-2	Benzene	0.29	0.93	J	2	0.51	3.19	11/13/25 15:23	VL111325
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/13/25 15:23	VL111325
79-01-6	Trichloroethene	10.6	57.0		2	0.27	0.32	11/13/25 15:23	VL111325
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/13/25 15:23	VL111325
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/13/25 15:23	VL111325
108-10-1	4-Methyl-2-Pentanone	0.39	1.60	J	2	0.78	4.10	11/13/25 15:23	VL111325
108-88-3	Toluene	0.39	1.47	J	2	1.21	3.77	11/13/25 15:23	VL111325
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/13/25 15:23	VL111325
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/13/25 15:23	VL111325
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/13/25 15:23	VL111325
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/13/25 15:23	VL111325
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/13/25 15:23	VL111325
127-18-4	Tetrachloroethene	4.40	29.8		2	0.20	0.41	11/13/25 15:23	VL111325
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/13/25 15:23	VL111325
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/13/25 15:23	VL111325
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/13/25 15:23	VL111325
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/13/25 15:23	VL111325
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/13/25 15:23	VL111325
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/13/25 15:23	VL111325
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/13/25 15:23	VL111325
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/13/25 15:23	VL111325

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-8-SS-1	SDG No.:	Q3627
Lab Sample ID:	Q3627-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3		Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92		11/13/25 15:23	VL111325
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92		11/13/25 15:23	VL111325
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01		11/13/25 15:23	VL111325
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01		11/13/25 15:23	VL111325
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01		11/13/25 15:23	VL111325
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42		11/13/25 15:23	VL111325
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7		11/13/25 15:23	VL111325
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21		11/13/25 15:23	VL111325
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05		11/13/25 15:23	VL111325
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92		11/13/25 15:23	VL111325
110-54-3	Hexane	0.89	3.14	J	2	1.13	3.52		11/13/25 15:23	VL111325
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13		11/13/25 15:23	VL111325
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60		11/13/25 15:23	VL111325
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09		11/13/25 15:23	VL111325
SURROGATES										
460-00-4	1-Bromo-4-Fluorobenzene	10.1				70 (65) - 130	101%	SPK: 10		
INTERNAL STANDARDS		**Area Count**								
74-97-5	Bromochloromethane	137000								
540-36-3	1,4-Difluorobenzene	359000								
3114-55-4	Chlorobenzene-d5	305000								

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\VL111325\
Data File : VL043200.D
Acq On : 13 Nov 2025 15:23
Operator : SY/MD
Sample : Q3627-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:40:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	136843	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	359287	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	305253	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	240491	10.136	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	4950	0.254	ppbv		94
9) Propene	1.489	41	4022	0.431	ppbv		85
11) Trichlorofluoromethane	1.881	101	5775	0.303	ppbv		93
13) Ethanol	1.725	45	148663	43.052	ppbv		99
15) Acetone	1.839	43	495885	26.885	ppbv		99
17) tert-Butyl alcohol	2.046	59	27295	1.078	ppbv		97
19) Isopropyl Alcohol	1.887	45	147301	12.823	ppbv	#	18
20) Methylene Chloride	2.065	84	7894	1.083	ppbv		90
26) Hexane	2.836	57	9409	0.446	ppbv	#	45
27) Carbon Disulfide	2.156	76	8871	0.459	ppbv	#	27
29) Chloroform	2.852	83	7245	0.237	ppbv		99
32) 1,1,1-Trichloroethane	3.376	97	1211m	0.038	ppbv		
34) 2-Butanone	2.564	43	65335	2.705	ppbv		99
35) Carbon Tetrachloride	3.771	117	30208	1.169	ppbv		91
36) Benzene	3.664	78	4942m	0.146	ppbv		
38) Trichloroethene	4.557	130	74909	5.300	ppbv		97
41) Tetrahydrofuran	3.069	42	2943m	0.218	ppbv		
50) 4-Methyl-2-Pentanone	5.778	43	6487m	0.195	ppbv		
51) 2-Hexanone	7.448	43	11714m	0.469	ppbv		
52) Tetrachloroethene	8.228	164	27051	2.217	ppbv		96
53) Toluene	6.943	91	7803	0.194	ppbv		99
59) m/p-Xylene	9.539	91	9879m	0.236	ppbv		
60) o-Xylene	9.969	91	4883m	0.118	ppbv		
74) 1,2,4-Trimethylbenzene	11.545	105	6862m	0.147	ppbv		

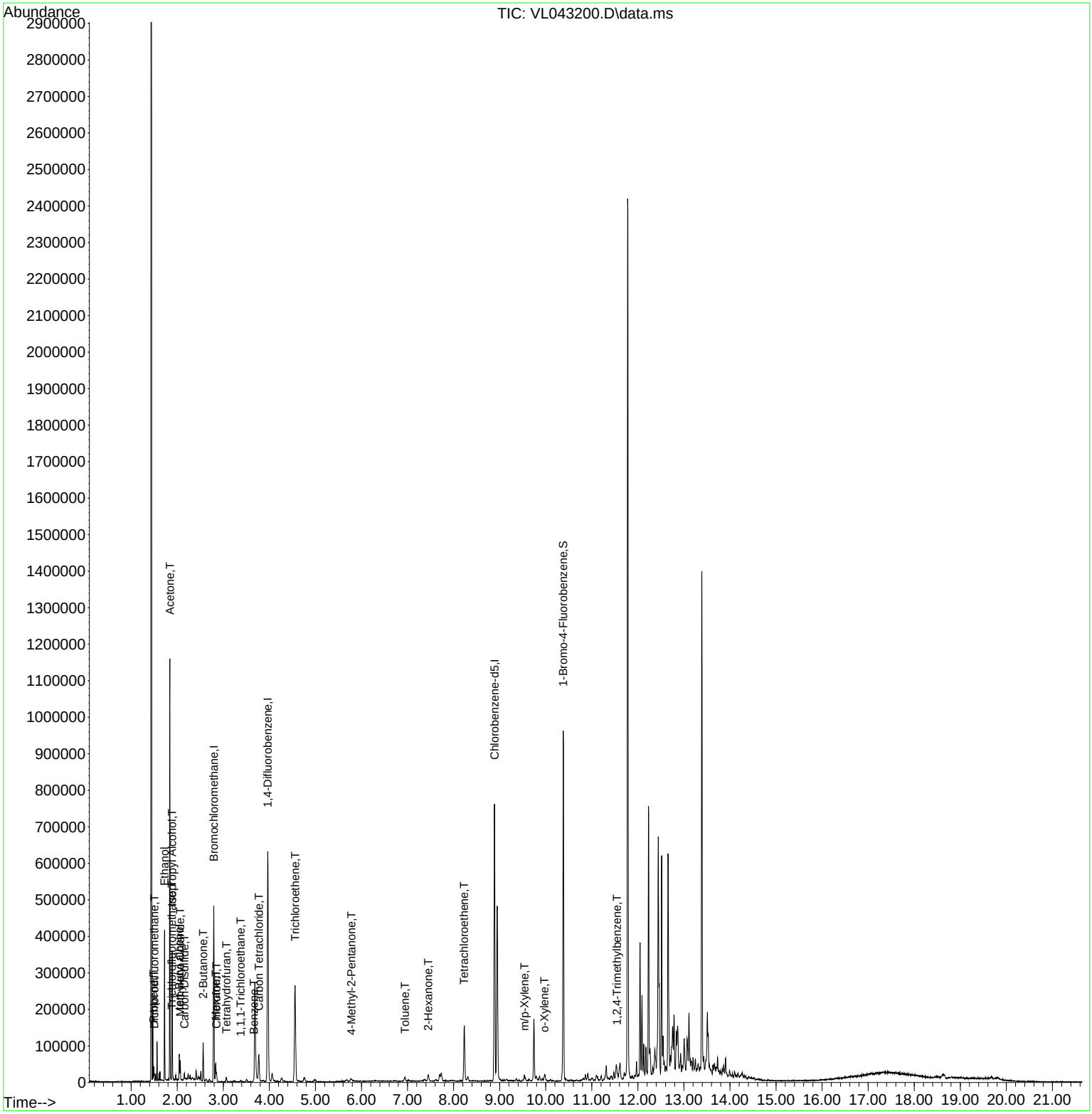
(#) = qualifier out of range (m) = manual integration (+) = signals summed

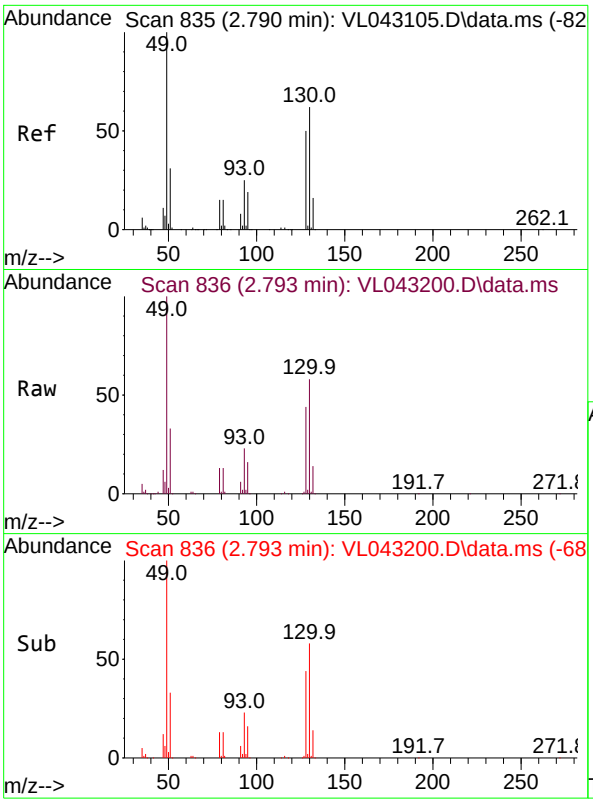
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043200.D
Acq On : 13 Nov 2025 15:23
Operator : SY/MD
Sample : Q3627-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:40:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

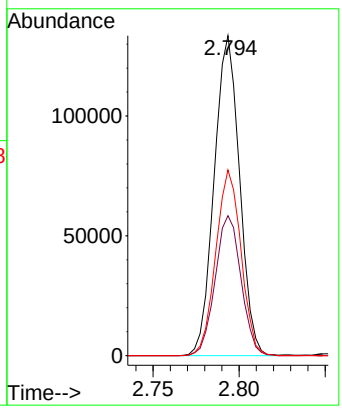




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 49 Resp: 13684

Ion	Ratio	Lower	Upper
49	100		
128	44.5	24.4	73.4
130	57.7	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

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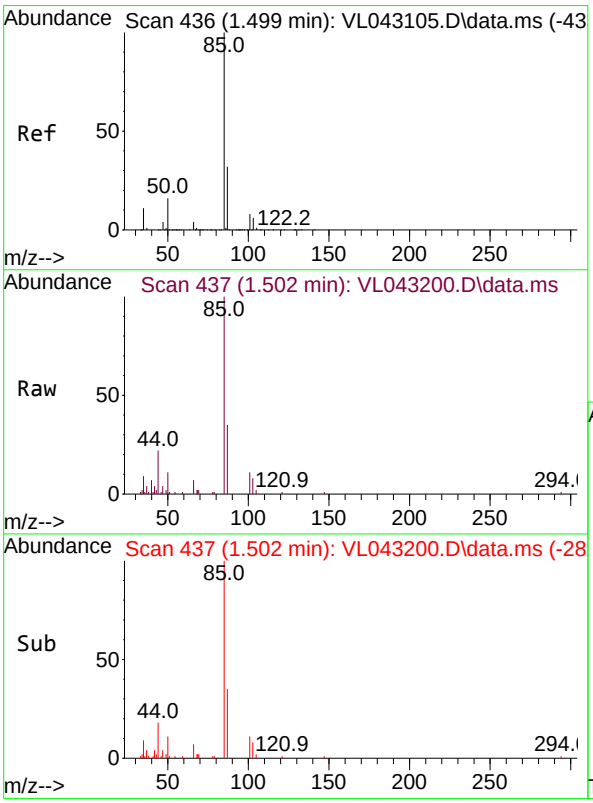
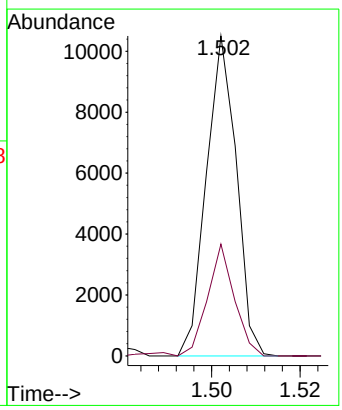
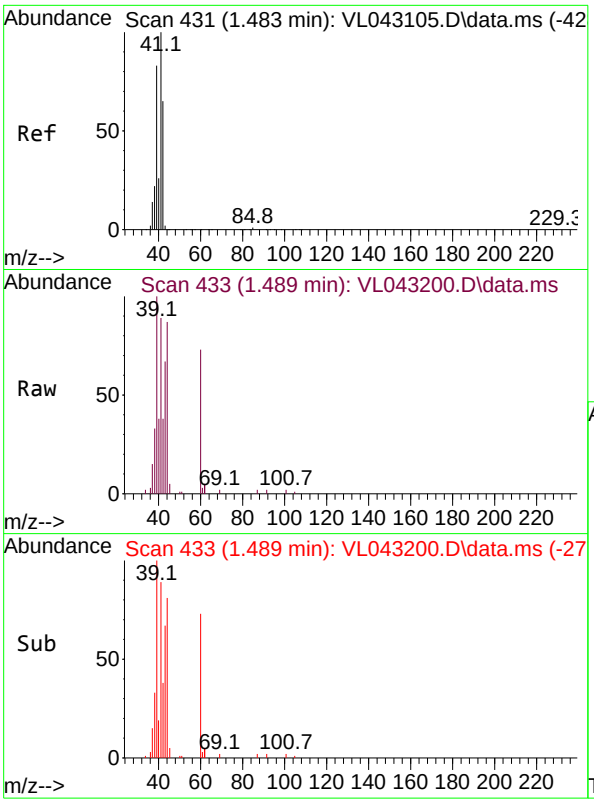


#2
Dichlorodifluoromethane
Concen: 0.254 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 85 Resp: 4950

Ion	Ratio	Lower	Upper
85	100		
87	34.9	25.3	37.9

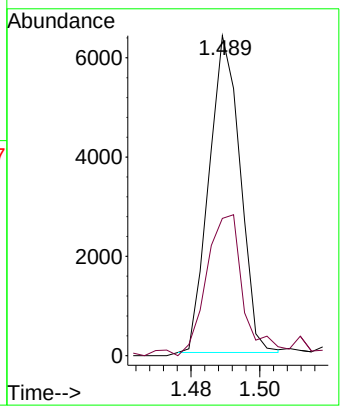




#9
Propene
Concen: 0.431 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 41 Resp: 402

Ion	Ratio	Lower	Upper
41	100		
42	56.5	55.1	82.7



Instrument :
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ClientSampleId :
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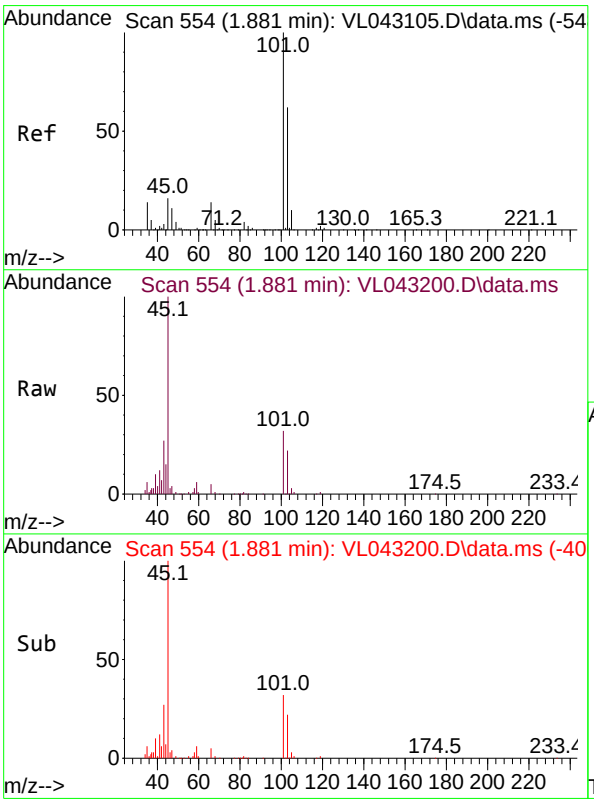
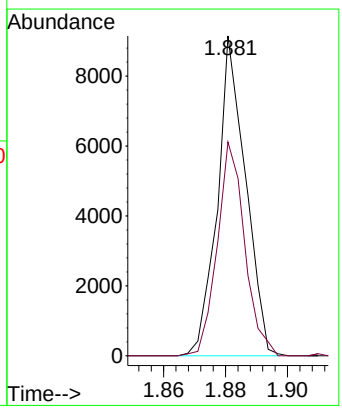
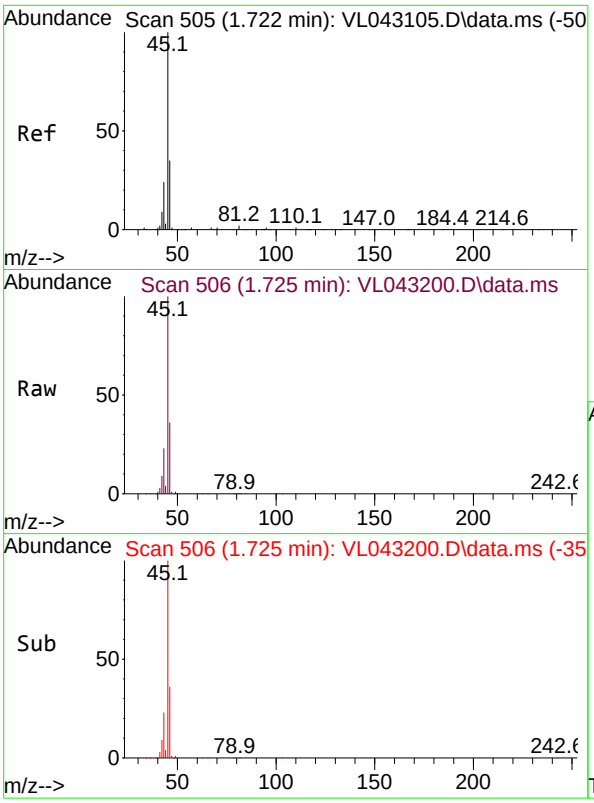


#11
Trichlorofluoromethane
Concen: 0.303 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:101 Resp: 5775

Ion	Ratio	Lower	Upper
101	100		
103	66.8	49.3	73.9

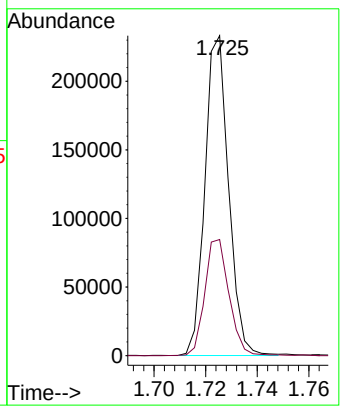




#13
Ethanol
Concen: 43.052 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 45 Resp: 14866

Ion	Ratio	Lower	Upper
45	100		
46	37.5	14.7	58.9



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

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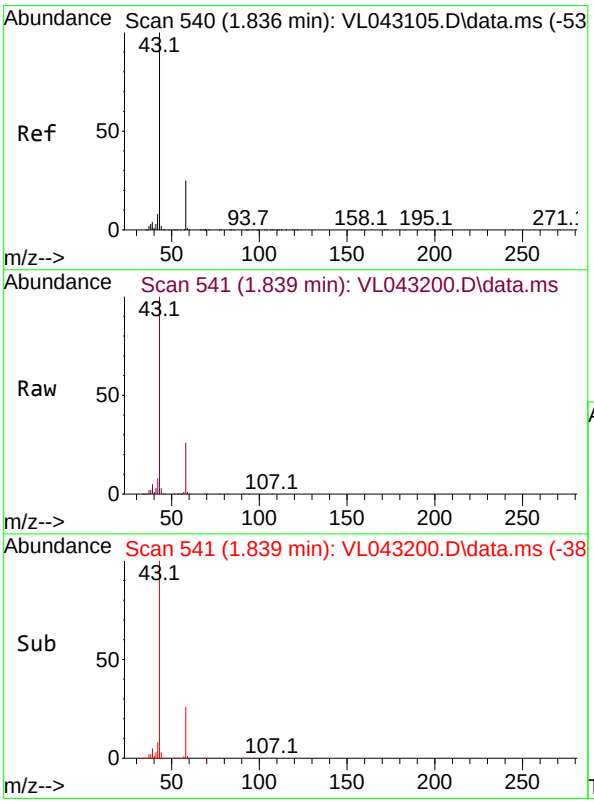
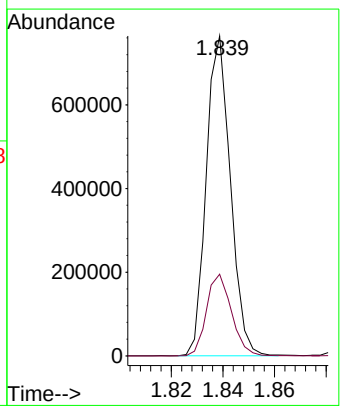
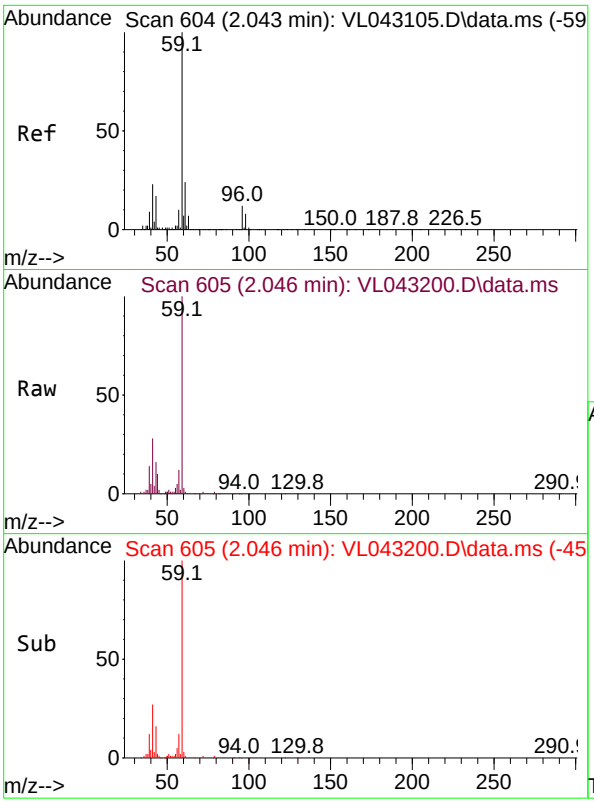


#15
Acetone
Concen: 26.885 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 43 Resp: 495885

Ion	Ratio	Lower	Upper
43	100		
58	26.4	20.8	31.2

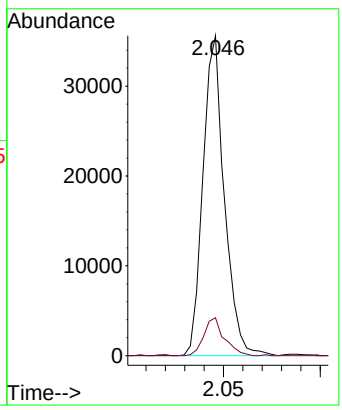




#17
tert-Butyl alcohol
Concen: 1.078 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 59 Resp: 2729

Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.2	12.4



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

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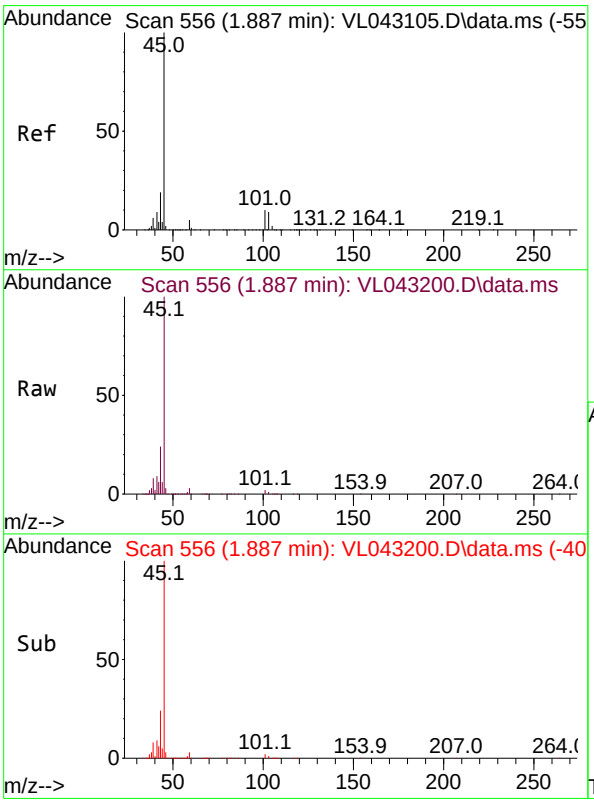
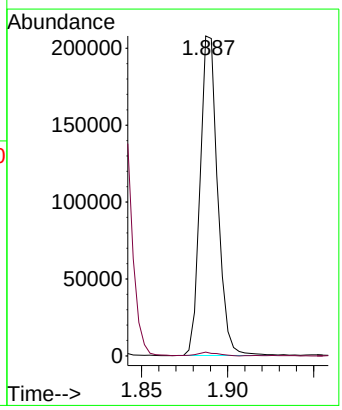
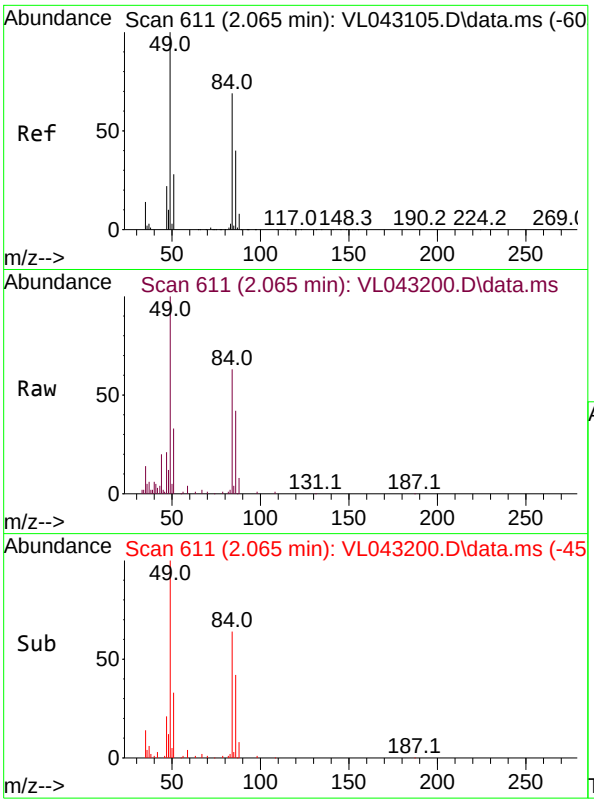


#19
Isopropyl Alcohol
Concen: 12.823 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 45 Resp: 147301

Ion	Ratio	Lower	Upper
45	100		
58	89.0	31.3	46.9#

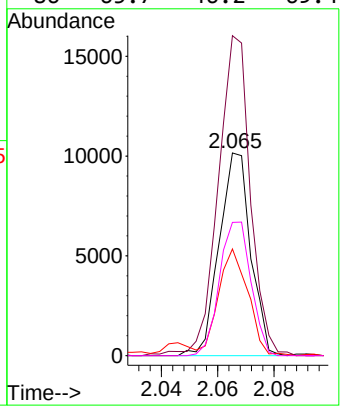




#20
Methylene Chloride
Concen: 1.083 ppbv
RT: 2.065 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 84 Resp: 789

Ion	Ratio	Lower	Upper
84	100		
49	156.1	116.6	175.0
51	51.4	34.8	52.2
86	65.7	46.2	69.4



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Manual Integrations
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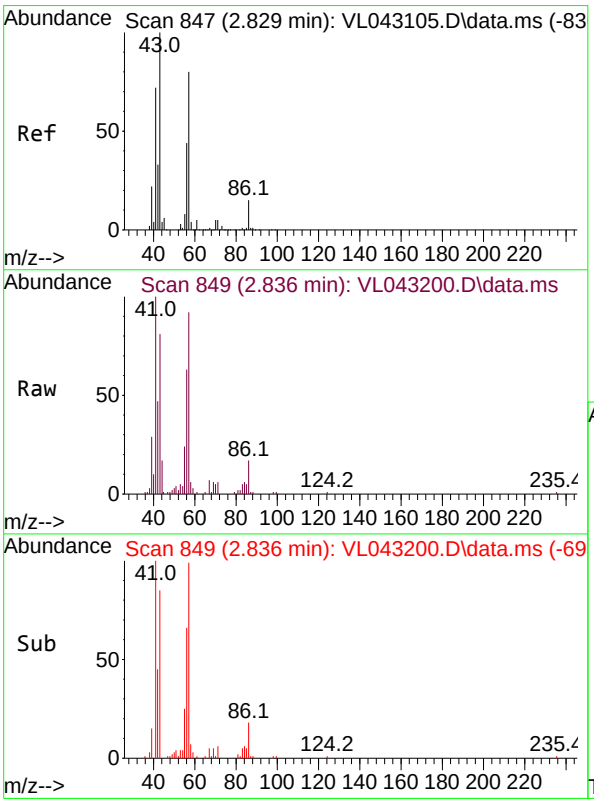
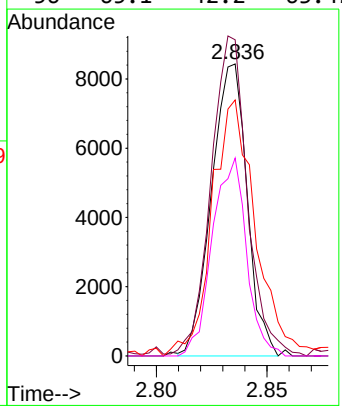
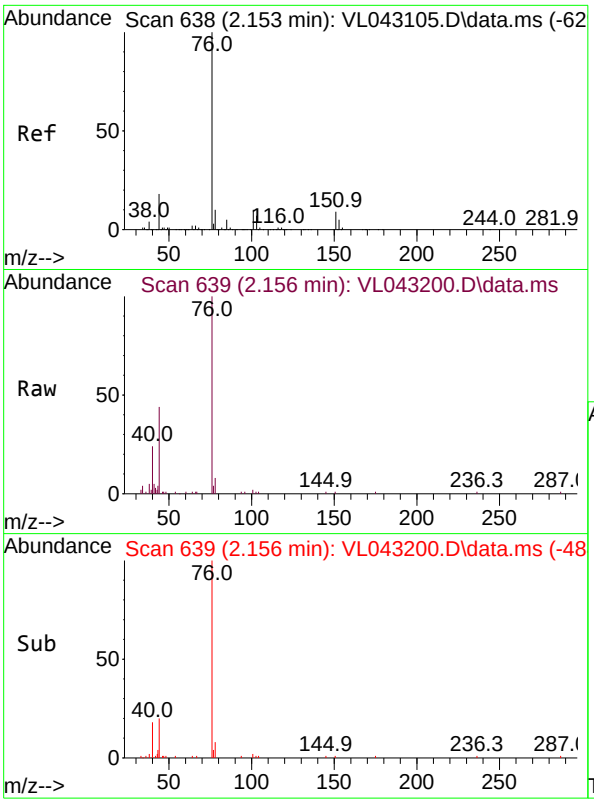


#26
Hexane
Concen: 0.446 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 57 Resp: 9409

Ion	Ratio	Lower	Upper
57	100		
41	117.2	71.4	107.0#
43	102.4	178.5	267.7#
56	65.1	42.2	63.4#

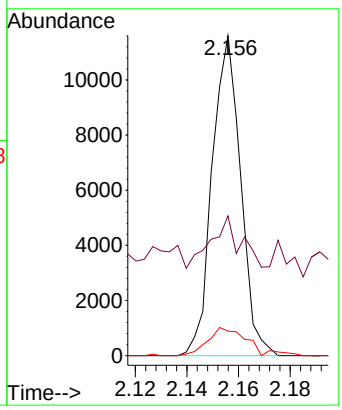




#27
Carbon Disulfide
Concen: 0.459 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 76 Resp: 887

Ion	Ratio	Lower	Upper
76	100		
44	73.3	16.7	25.1
78	12.3	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Manual Integrations
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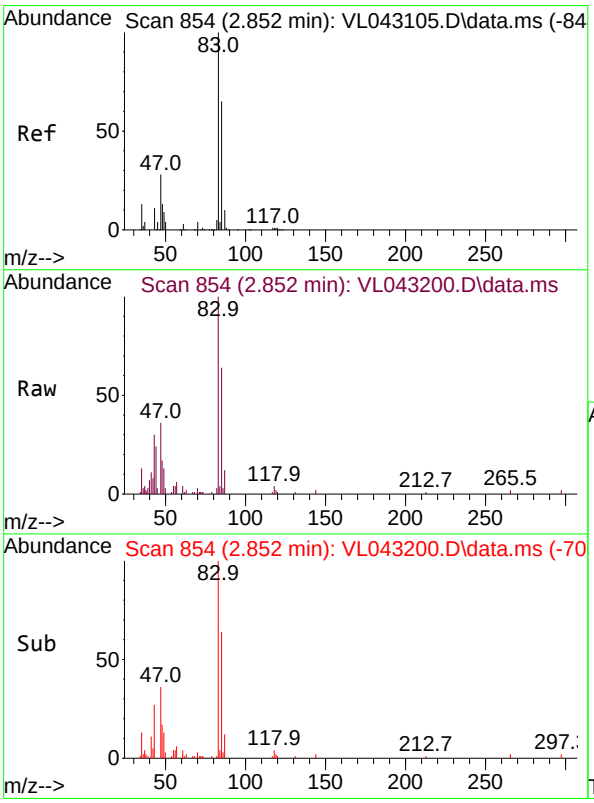
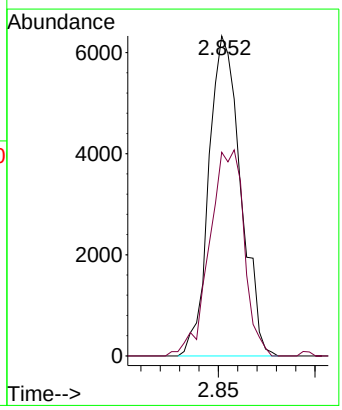
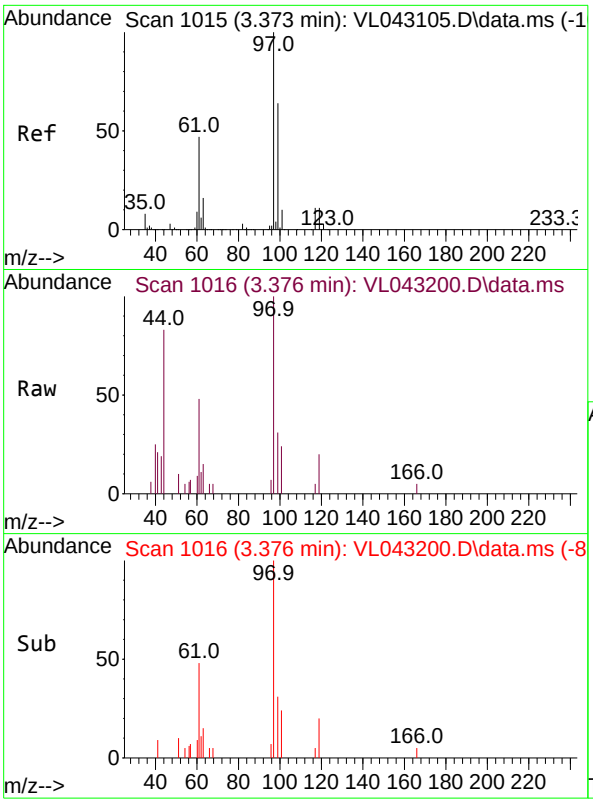


#29
Chloroform
Concen: 0.237 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 83 Resp: 7245

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.8	77.6

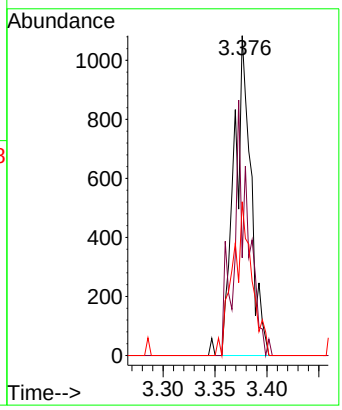




#32
1,1,1-Trichloroethane
Concen: 0.038 ppbv m
RT: 3.376 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 97 Resp: 121

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.3	76.9#
61	54.5	38.4	57.6



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

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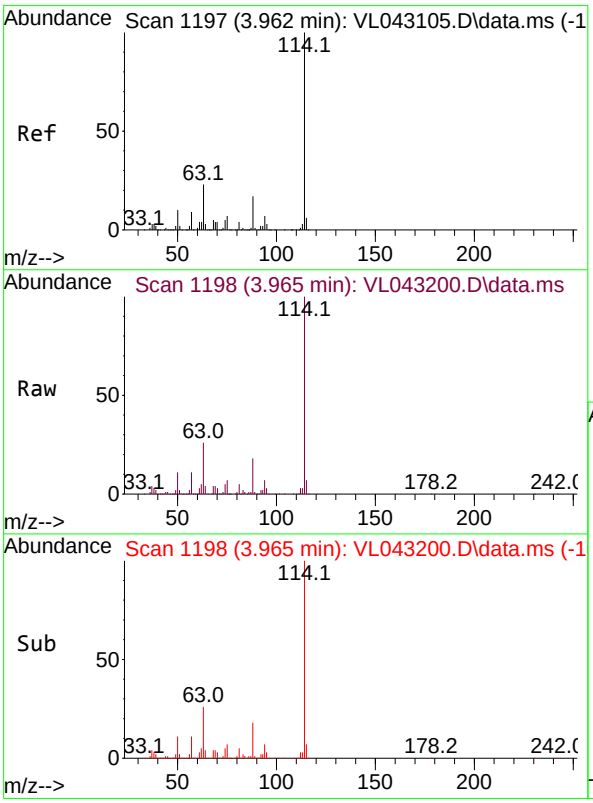
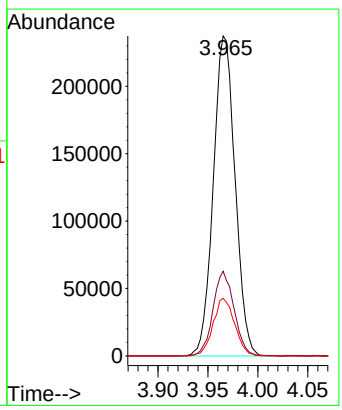
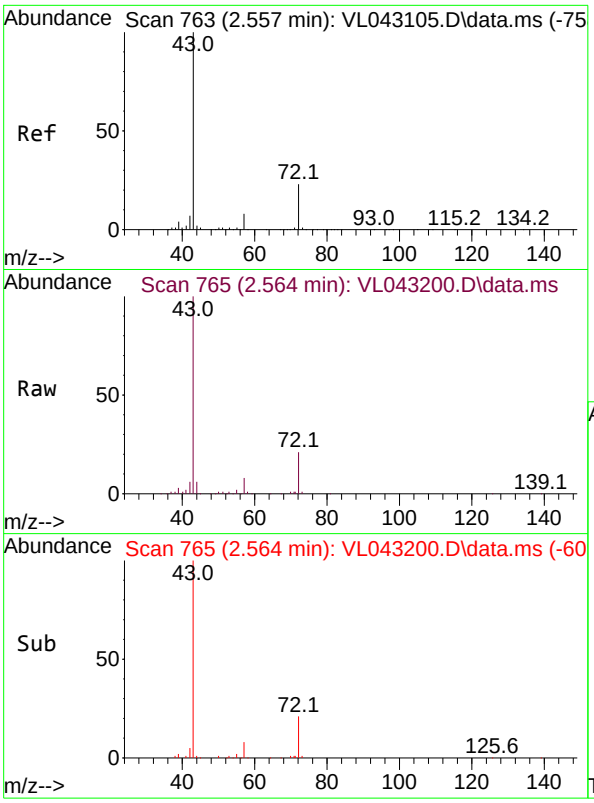


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:114 Resp: 359287

Ion	Ratio	Lower	Upper
114	100		
63	25.6	19.3	28.9
88	17.8	13.9	20.9





#34
2-Butanone
Concen: 2.705 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 43 Resp: 6533

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.4	27.6

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Manual Integrations
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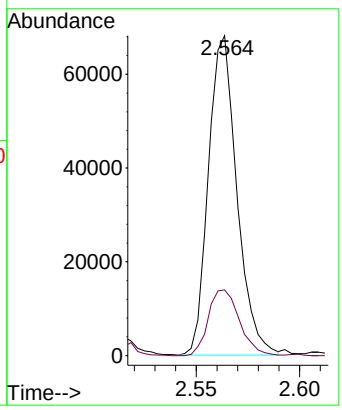
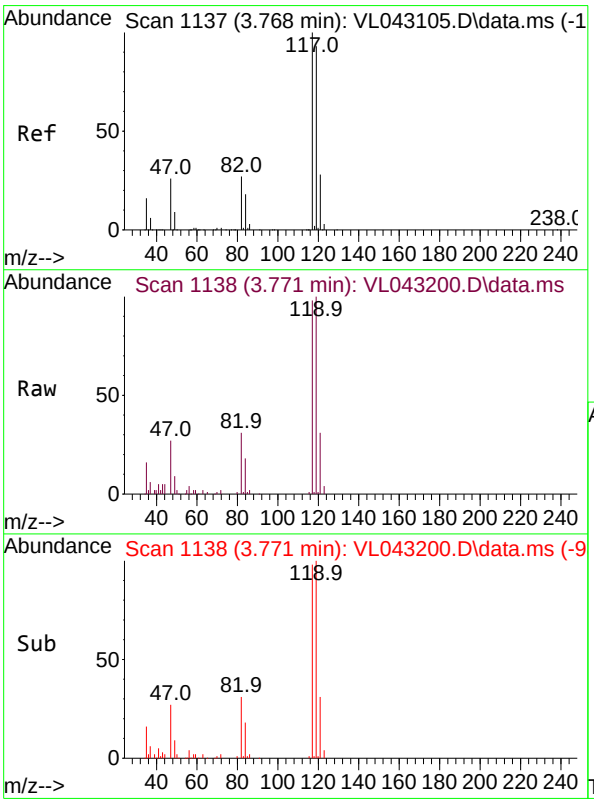
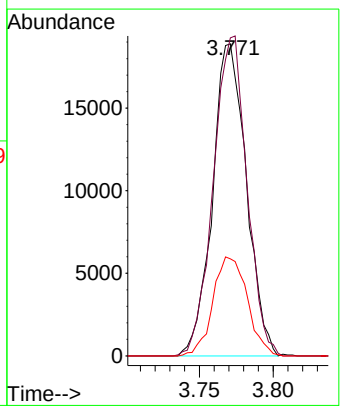


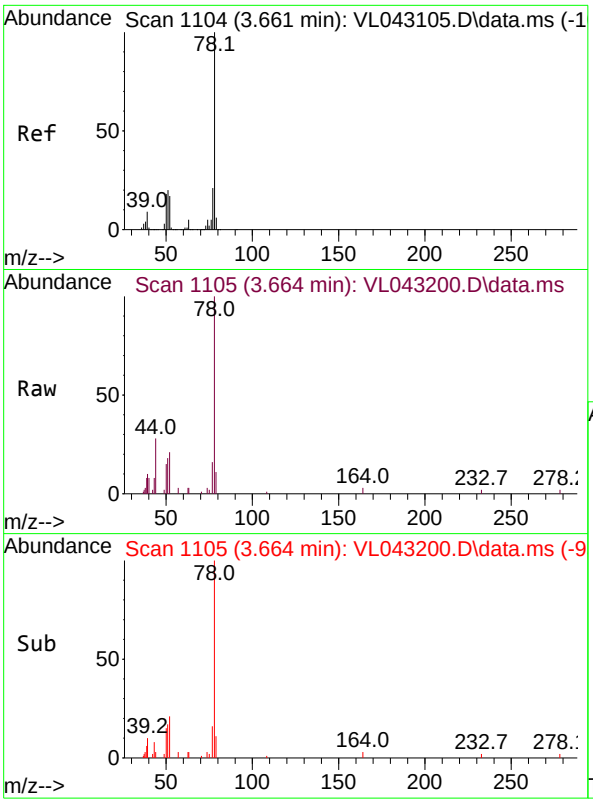


#35
Carbon Tetrachloride
Concen: 1.169 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:117 Resp: 30208

Ion	Ratio	Lower	Upper
117	100		
119	101.6	74.1	111.1
121	31.1	22.2	33.2

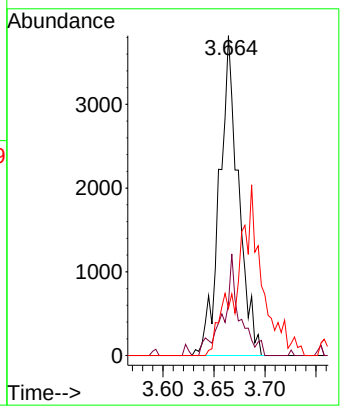




#36
Benzene
Concen: 0.146 ppbv m
RT: 3.664 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 78 Resp: 494

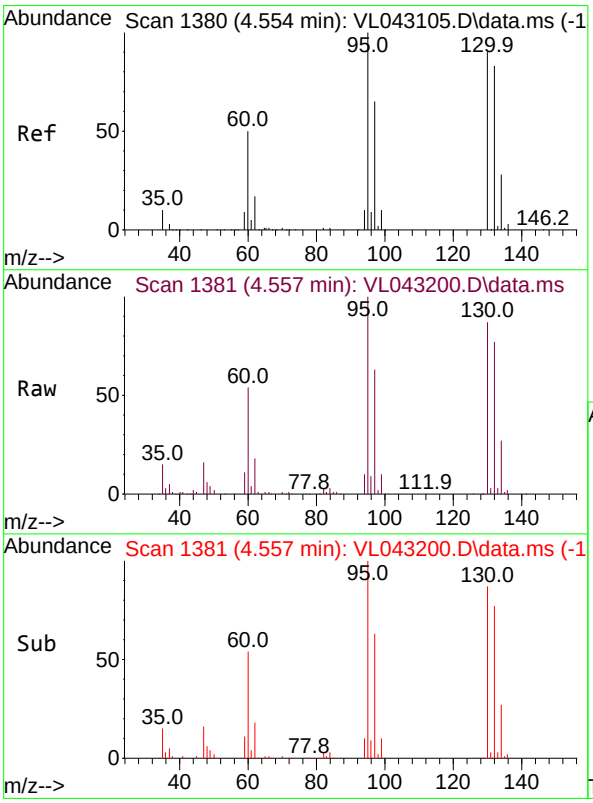
Ion	Ratio	Lower	Upper
78	100		
77	16.2	17.0	25.6#
50	14.8	14.6	22.0



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Manual Integrations
APPROVED

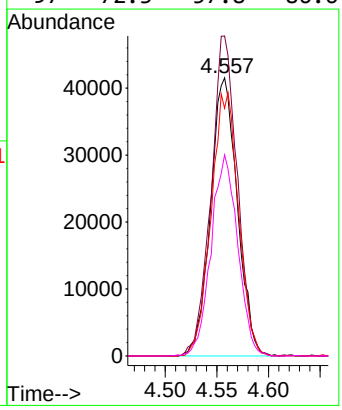
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

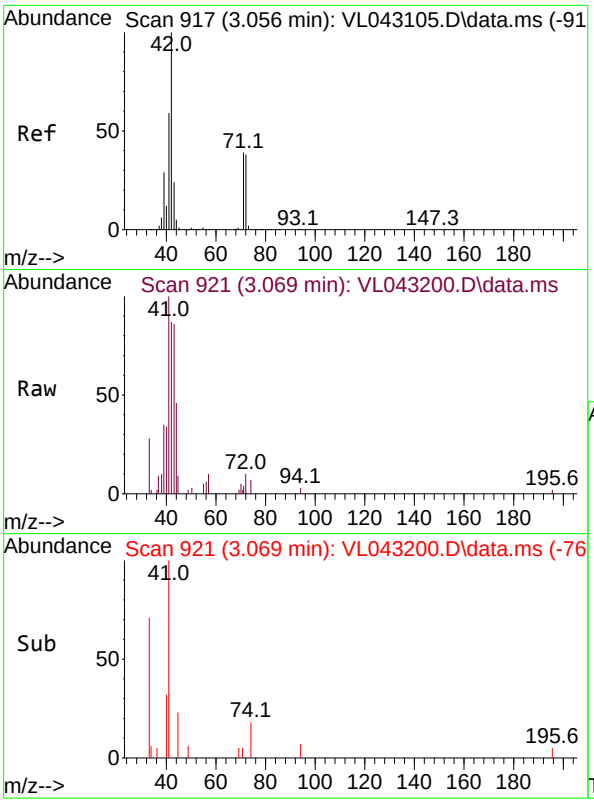


#38
Trichloroethene
Concen: 5.300 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:130 Resp: 74909

Ion	Ratio	Lower	Upper
130	100		
95	115.1	88.6	133.0
132	89.1	73.4	110.0
97	72.3	57.8	86.6

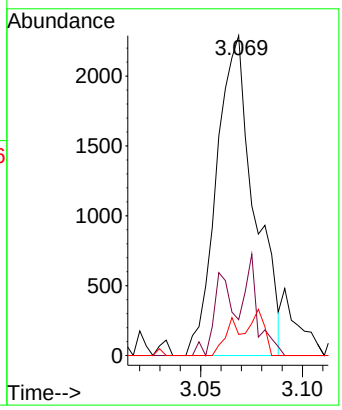




#41
Tetrahydrofuran
Concen: 0.218 ppbv m
RT: 3.069 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 42 Resp: 294

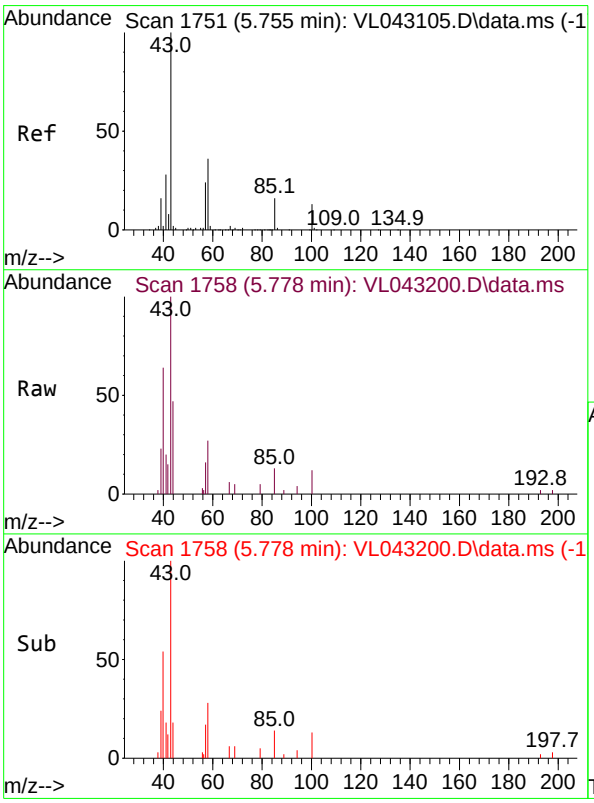
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.3	46.9#
71	0.0	30.4	45.6#



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Manual Integrations
APPROVED

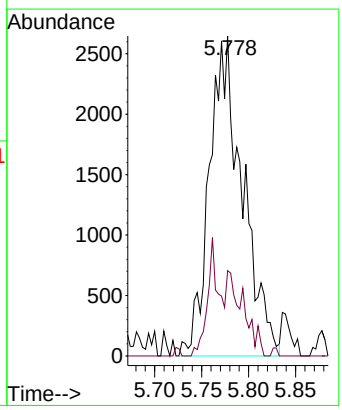
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

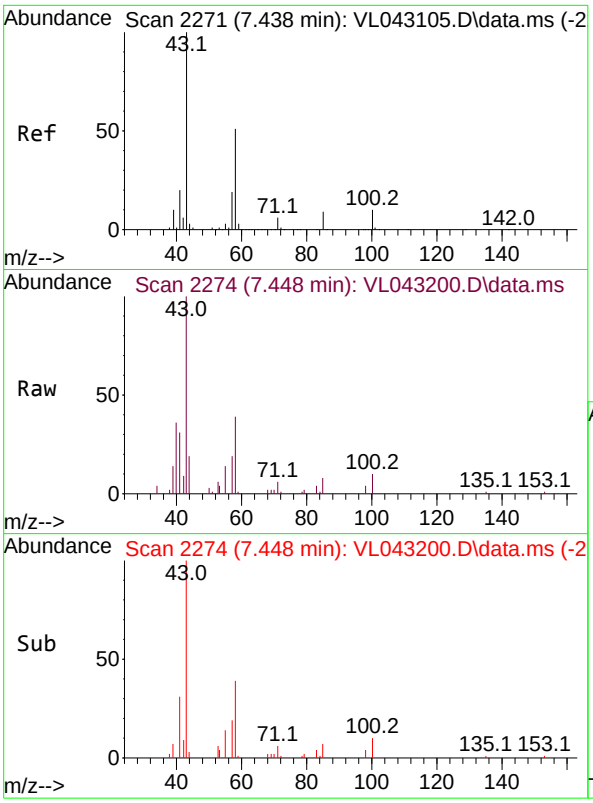


#50
4-Methyl-2-Pentanone
Concen: 0.195 ppbv m
RT: 5.778 min Scan# 1758
Delta R.T. 0.023 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 43 Resp: 6487

Ion	Ratio	Lower	Upper
43	100		
58	27.4	29.1	43.7#

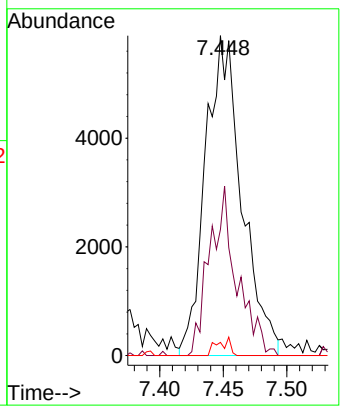




#51
2-Hexanone
Concen: 0.469 ppbv m
RT: 7.448 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 43 Resp: 1171

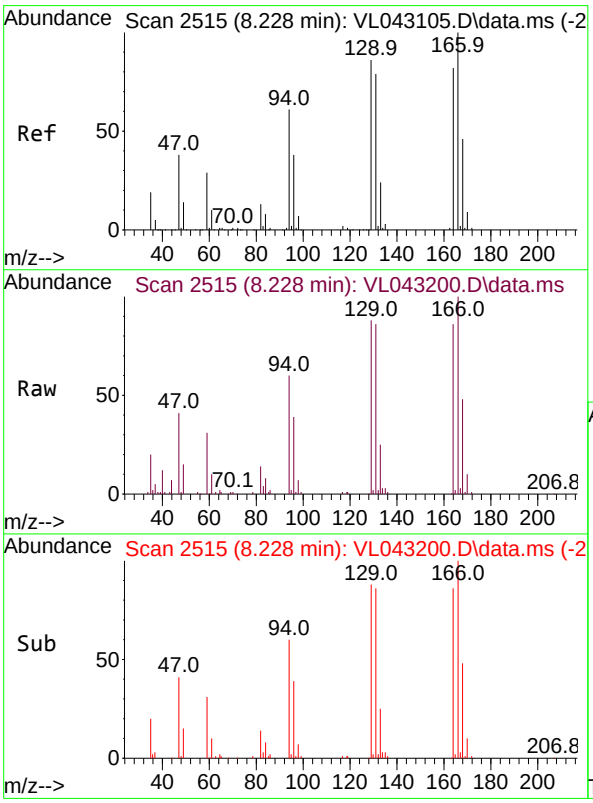
Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.4	60.6#
98	0.0	0.1	0.1#



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Manual Integrations
APPROVED

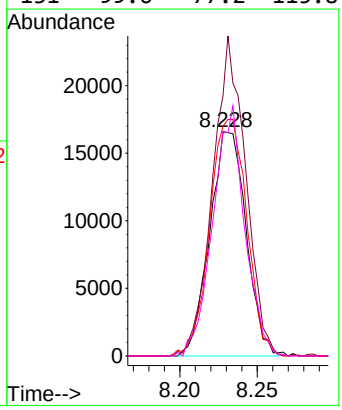
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

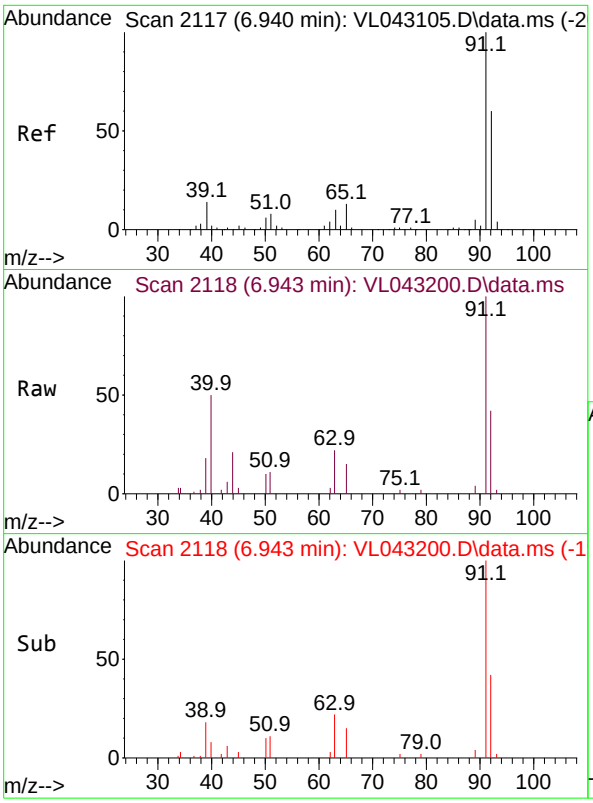


#52
Tetrachloroethene
Concen: 2.217 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:164 Resp: 27051

Ion	Ratio	Lower	Upper
164	100		
166	115.4	97.6	146.4
129	101.7	84.5	126.7
131	99.6	77.2	115.8

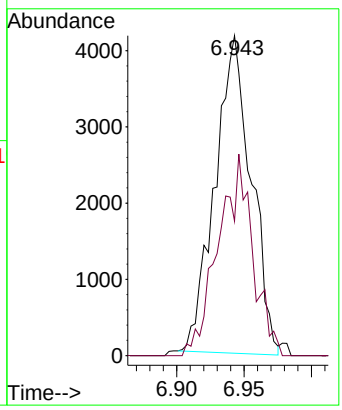




#53
Toluene
Concen: 0.194 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 91 Resp: 780

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Manual Integrations
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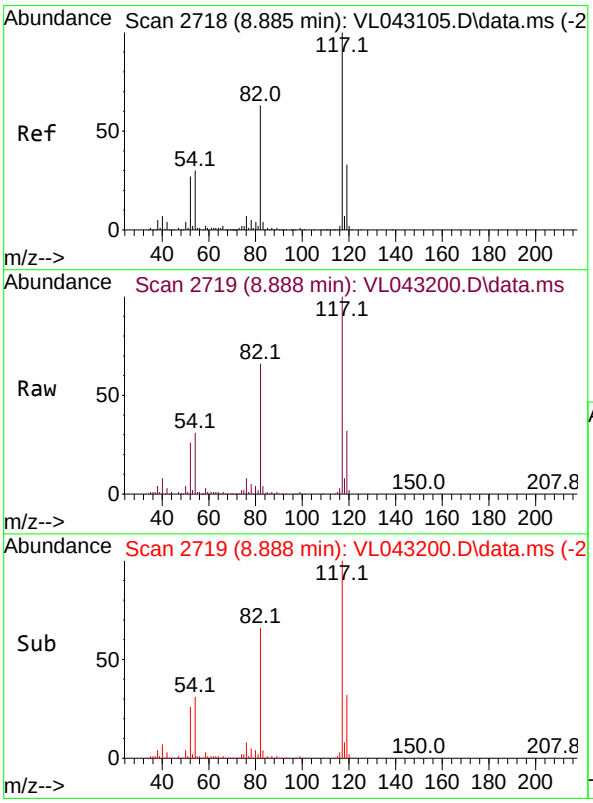
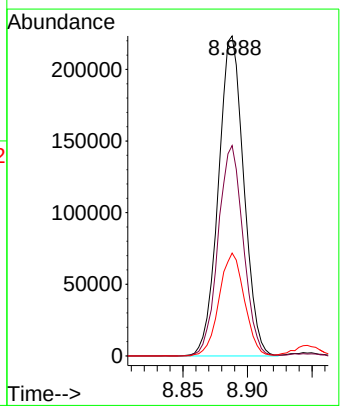
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

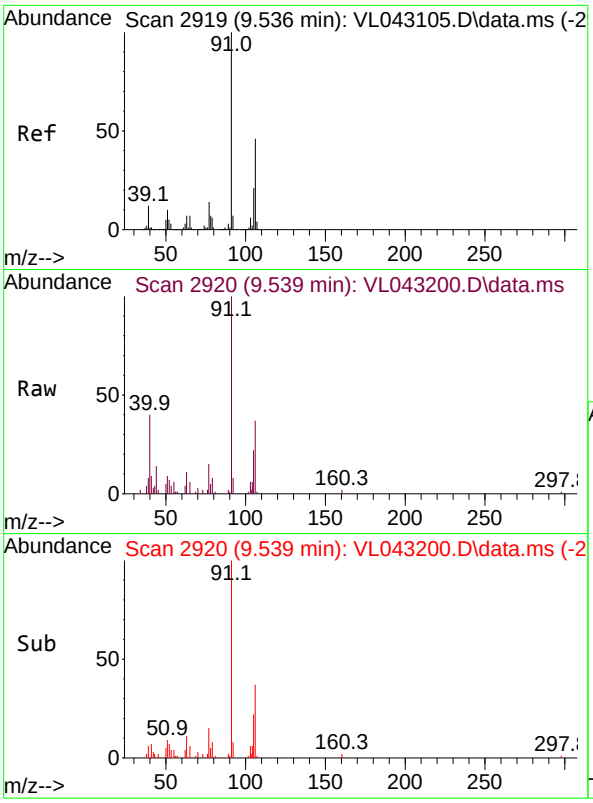


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:117 Resp: 305253

Ion	Ratio	Lower	Upper
117	100		
82	65.1	53.8	80.8
119	32.0	25.4	38.0





#59
m/p-Xylene
Concen: 0.236 ppbv m
RT: 9.539 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

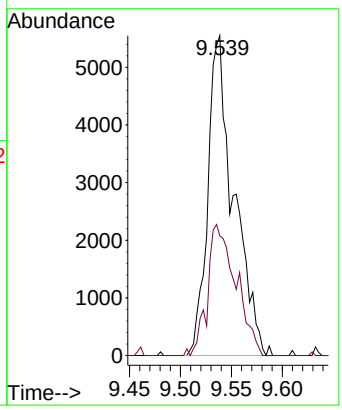
Tgt Ion: 91 Resp: 9879

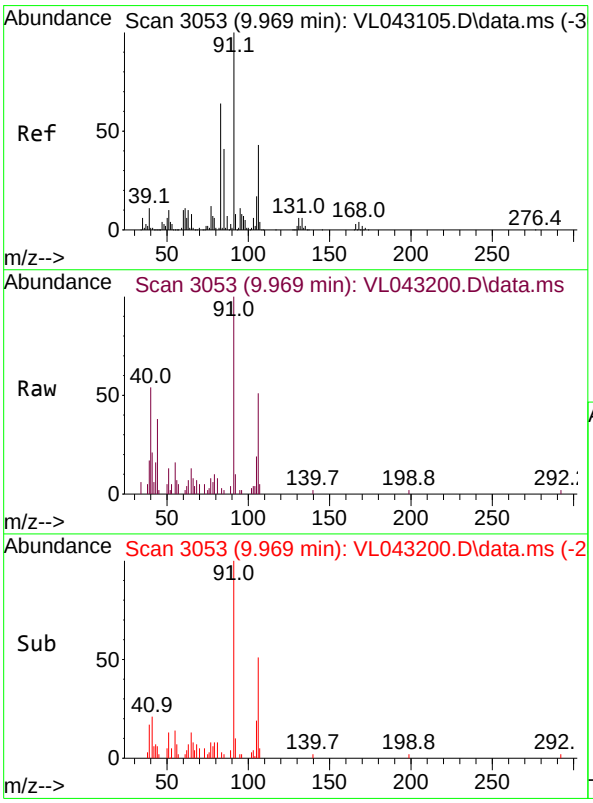
Ion	Ratio	Lower	Upper
91	100		
106	44.8	38.0	57.0

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

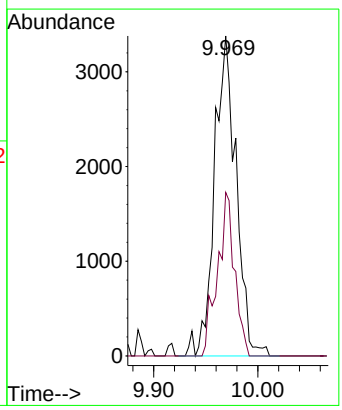


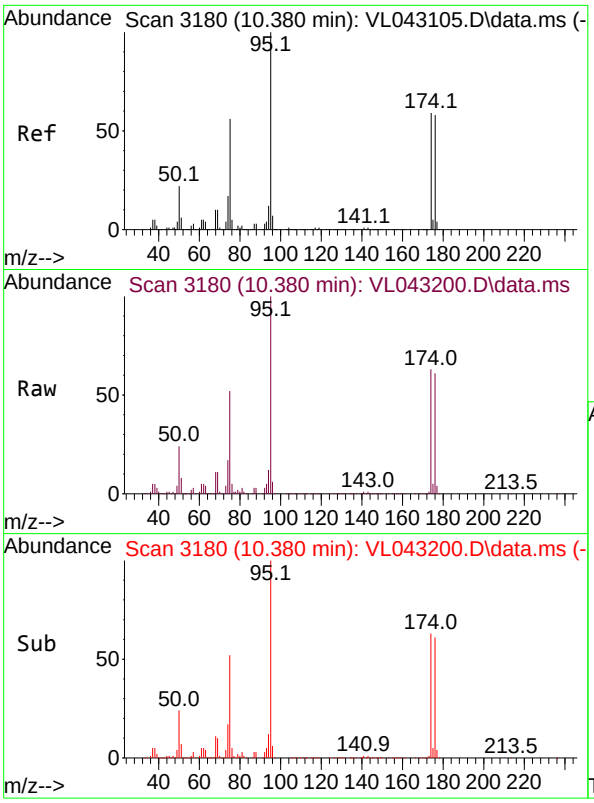


#60
o-Xylene
Concen: 0.118 ppbv m
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 91 Resp: 4883

Ion	Ratio	Lower	Upper
91	100		
106	40.2	21.9	65.8

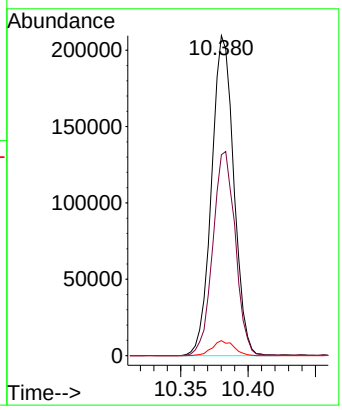




#68
1-Bromo-4-Fluorobenzene
Concen: 10.136 ppbv
RT: 10.380 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 95 Resp: 24049

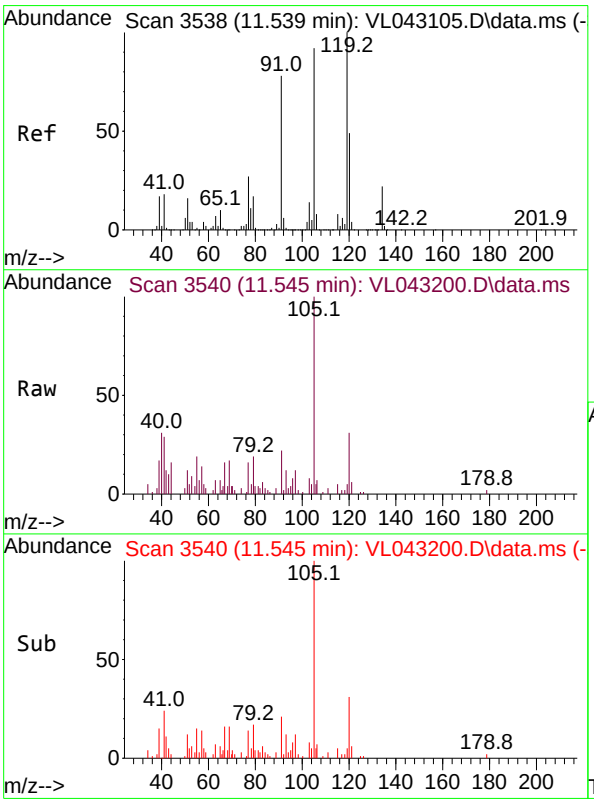
Ion	Ratio	Lower	Upper
95	100		
174	64.5	48.3	72.5
175	4.5	3.8	5.8



Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Manual Integrations
APPROVED

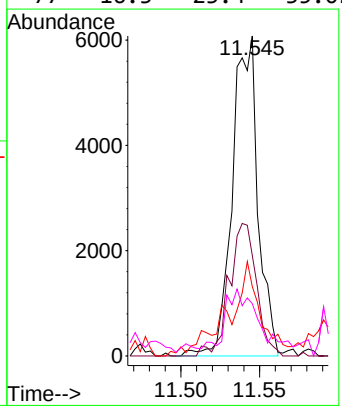
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.147 ppbv m
RT: 11.545 min Scan# 3540
Delta R.T. 0.006 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:105 Resp: 6862

Ion	Ratio	Lower	Upper
105	100		
120	31.4	42.8	64.2#
91	21.7	68.3	102.5#
77	16.3	23.4	35.0#



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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-8-SS-1DL	SDG No.:	Q3627
Lab Sample ID:	Q3627-04DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	5.44	UD	10	5.44	24.7	11/13/25 14:14	VL111325
74-87-3	Chloromethane	0.98	2.02	UD	10	2.02	10.3	11/13/25 14:14	VL111325
75-01-4	Vinyl Chloride	0.25	0.64	UD	10	0.64	0.77	11/13/25 14:14	VL111325
74-83-9	Bromomethane	0.77	2.99	UD	10	2.99	19.4	11/13/25 14:14	VL111325
75-00-3	Chloroethane	1.50	3.96	UD	10	3.96	13.2	11/13/25 14:14	VL111325
109-99-9	Tetrahydrofuran	0.80	2.36	UD	10	2.36	14.8	11/13/25 14:14	VL111325
75-69-4	Trichlorofluoromethane	1.70	9.55	UD	10	9.55	28.1	11/13/25 14:14	VL111325
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	10.7	UD	10	10.7	38.3	11/13/25 14:14	VL111325
76-14-2	Dichlorotetrafluoroethane	1.50	10.5	UD	10	10.5	35.0	11/13/25 14:14	VL111325
75-65-0	tert-Butyl alcohol	2.00	6.06	JD	10	4.85	15.2	11/13/25 14:14	VL111325
142-82-5	Heptane	1.70	6.97	UD	10	6.97	20.5	11/13/25 14:14	VL111325
75-35-4	1,1-Dichloroethene	1.50	5.95	UD	10	5.95	19.8	11/13/25 14:14	VL111325
67-64-1	Acetone	50.8	121	D	10	4.28	11.9	11/13/25 14:14	VL111325
75-15-0	Carbon Disulfide	0.80	2.49	UD	10	2.49	15.6	11/13/25 14:14	VL111325
1634-04-4	Methyl tert-Butyl Ether	2.30	8.29	UD	10	8.29	18.0	11/13/25 14:14	VL111325
75-09-2	Methylene Chloride	3.90	13.6	JD	10	7.99	17.4	11/13/25 14:14	VL111325
156-60-5	trans-1,2-Dichloroethene	1.20	4.76	UD	10	4.76	19.8	11/13/25 14:14	VL111325
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	10	5.26	20.2	11/13/25 14:14	VL111325
110-82-7	Cyclohexane	2.20	7.57	UD	10	7.57	17.2	11/13/25 14:14	VL111325
78-93-3	2-Butanone	5.10	15.0	D	10	1.65	14.8	11/13/25 14:14	VL111325
56-23-5	Carbon Tetrachloride	2.30	14.5	D	10	1.57	1.89	11/13/25 14:14	VL111325
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	10	3.93	19.8	11/13/25 14:14	VL111325
67-66-3	Chloroform	0.96	4.69	UD	10	4.69	24.4	11/13/25 14:14	VL111325
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	10	0.87	1.64	11/13/25 14:14	VL111325
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	10	6.54	23.4	11/13/25 14:14	VL111325
71-43-2	Benzene	0.79	2.52	UD	10	2.52	16.0	11/13/25 14:14	VL111325
107-06-2	1,2-Dichloroethane	0.93	3.76	UD	10	3.76	20.2	11/13/25 14:14	VL111325
79-01-6	Trichloroethene	10.1	54.3	D	10	1.29	1.61	11/13/25 14:14	VL111325
78-87-5	1,2-Dichloropropane	1.30	6.01	UD	10	6.01	23.1	11/13/25 14:14	VL111325
75-27-4	Bromodichloromethane	0.63	4.22	UD	10	4.22	33.5	11/13/25 14:14	VL111325
108-10-1	4-Methyl-2-Pentanone	0.97	3.98	UD	10	3.98	20.5	11/13/25 14:14	VL111325
108-88-3	Toluene	1.60	6.03	UD	10	6.03	18.8	11/13/25 14:14	VL111325
10061-02-6	t-1,3-Dichloropropene	1.50	6.81	UD	10	6.81	22.7	11/13/25 14:14	VL111325
10061-01-5	cis-1,3-Dichloropropene	1.10	4.99	UD	10	4.99	22.7	11/13/25 14:14	VL111325
79-00-5	1,1,2-Trichloroethane	0.81	4.42	UD	10	4.42	27.3	11/13/25 14:14	VL111325
124-48-1	Dibromochloromethane	0.85	7.24	UD	10	7.24	42.6	11/13/25 14:14	VL111325
106-93-4	1,2-Dibromoethane	0.85	6.53	UD	10	6.53	7.69	11/13/25 14:14	VL111325
127-18-4	Tetrachloroethene	4.10	27.8	D	10	1.02	2.03	11/13/25 14:14	VL111325
108-90-7	Chlorobenzene	0.77	3.55	UD	10	3.55	23.0	11/13/25 14:14	VL111325
100-41-4	Ethyl Benzene	1.90	8.25	UD	10	8.25	21.7	11/13/25 14:14	VL111325
179601-23-1	m/p-Xylene	4.10	17.8	UD	10	17.8	43.4	11/13/25 14:14	VL111325
95-47-6	o-Xylene	2.10	9.12	UD	10	9.12	21.7	11/13/25 14:14	VL111325
100-42-5	Styrene	1.60	6.81	UD	10	6.81	21.3	11/13/25 14:14	VL111325
75-25-2	Bromoform	0.48	4.96	UD	10	4.96	51.7	11/13/25 14:14	VL111325
79-34-5	1,1,2,2-Tetrachloroethane	0.18	1.24	UD	10	1.24	2.06	11/13/25 14:14	VL111325
95-49-8	2-Chlorotoluene	1.70	8.80	UD	10	8.80	25.9	11/13/25 14:14	VL111325

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-8-SS-1DL	SDG No.:	Q3627
Lab Sample ID:	Q3627-04DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/13/25 14:14	VL111325
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	11/13/25 14:14	VL111325
541-73-1	1,3-Dichlorobenzene	0.54	3.25	UD	10	3.25	30.1	11/13/25 14:14	VL111325
106-46-7	1,4-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	11/13/25 14:14	VL111325
95-50-1	1,2-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	11/13/25 14:14	VL111325
120-82-1	1,2,4-Trichlorobenzene	2.10	15.6	UD	10	15.6	37.1	11/13/25 14:14	VL111325
87-68-3	Hexachloro-1,3-Butadiene	1.30	13.9	UD	10	13.9	53.3	11/13/25 14:14	VL111325
106-99-0	1,3-Butadiene	0.51	1.13	UD	10	1.13	11.1	11/13/25 14:14	VL111325
91-20-3	Naphthalene	0.13	0.68	UD	10	0.68	5.24	11/13/25 14:14	VL111325
622-96-8	4-Ethyltoluene	2.10	10.3	UD	10	10.3	24.6	11/13/25 14:14	VL111325
110-54-3	Hexane	1.60	5.64	UD	10	5.64	17.6	11/13/25 14:14	VL111325
107-05-1	Allyl Chloride	1.10	3.44	UD	10	3.44	15.7	11/13/25 14:14	VL111325
123-91-1	1,4-Dioxane	2.20	7.93	UD	10	7.93	18.0	11/13/25 14:14	VL111325
80-62-6	Methyl Methacrylate	1.40	5.73	UD	10	5.73	20.5	11/13/25 14:14	VL111325
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.70				70 (65) - 130	97%	SPK: 10	
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	138000							
540-36-3	1,4-Difluorobenzene	360000							
3114-55-4	Chlorobenzene-d5	299000							

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\VL111325\
Data File : VL043198.D
Acq On : 13 Nov 2025 14:14
Operator : SY/MD
Sample : Q3627-04DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1DL

Quant Time: Nov 14 04:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

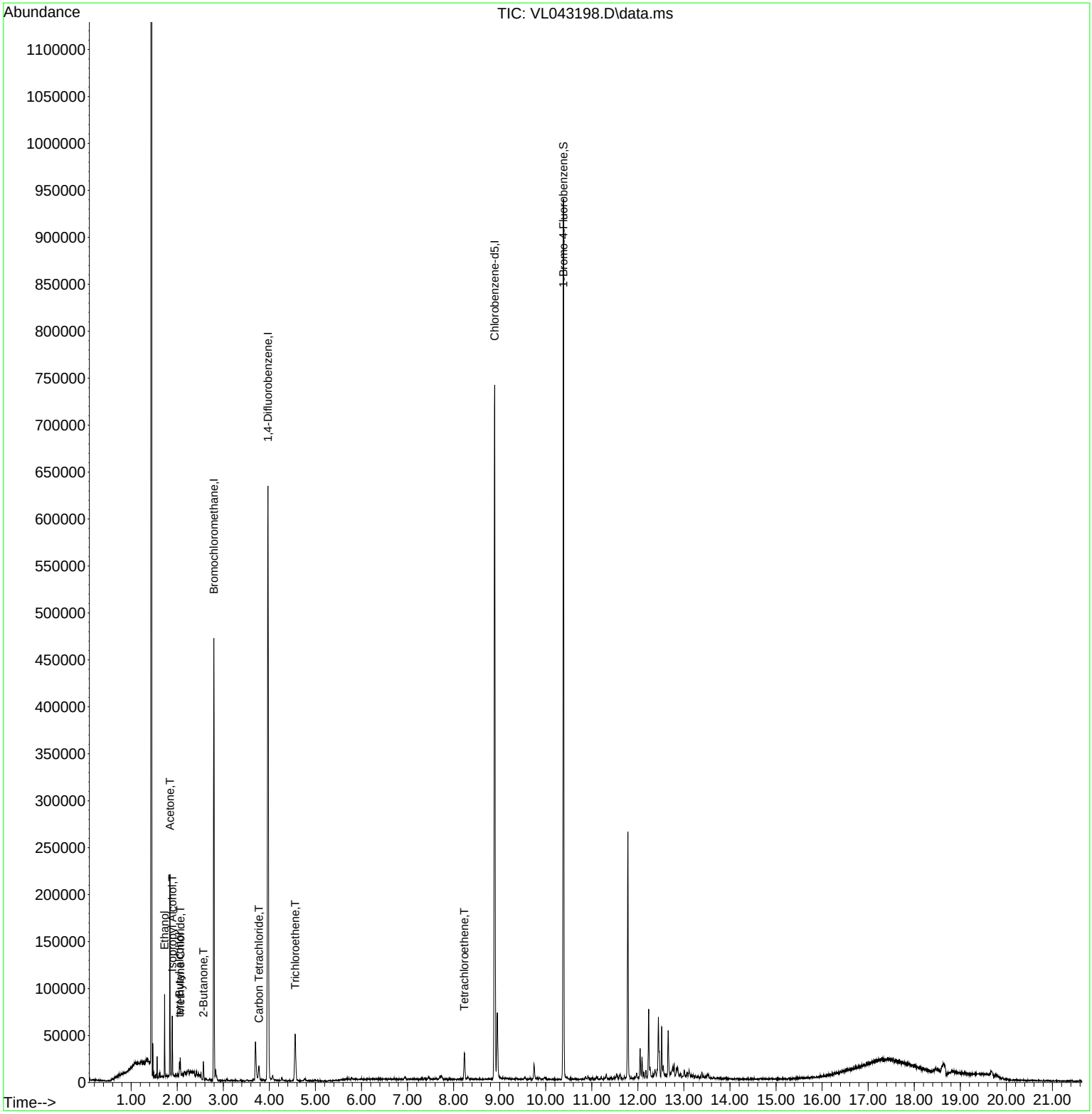
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	138276	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	360106	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.891	117	298832	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	225464	9.707	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.100%				
Target Compounds							Qvalue
13) Ethanol	1.725	45	28798	8.253	ppbv		99
15) Acetone	1.842	43	94610	5.076	ppbv		99
17) tert-Butyl alcohol	2.049	59	5023	0.196	ppbv	#	90
19) Isopropyl Alcohol	1.890	45	27516	2.370	ppbv	#	15
20) Methylene Chloride	2.068	84	2854	0.387	ppbv	#	91
34) 2-Butanone	2.567	43	12439	0.514	ppbv		100
35) Carbon Tetrachloride	3.774	117	5994	0.232	ppbv		90
38) Trichloroethene	4.561	130	14356	1.013	ppbv		91
52) Tetrachloroethene	8.231	164	5011	0.410	ppbv	#	76

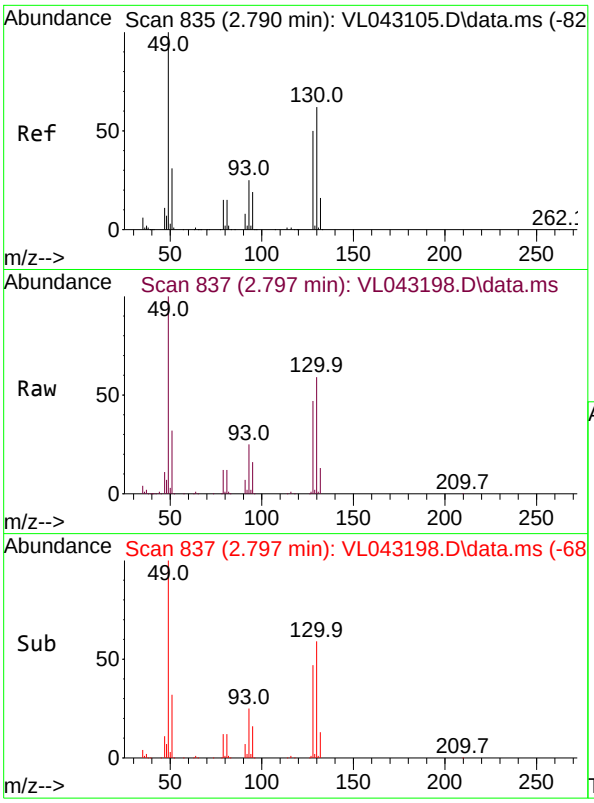
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043198.D
Acq On : 13 Nov 2025 14:14
Operator : SY/MD
Sample : Q3627-04DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1DL

Quant Time: Nov 14 04:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



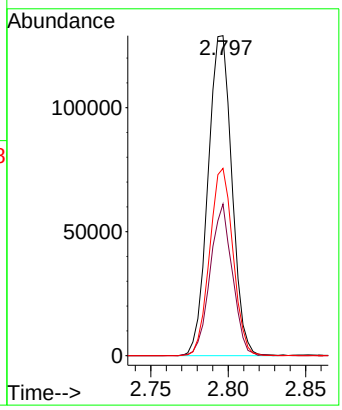


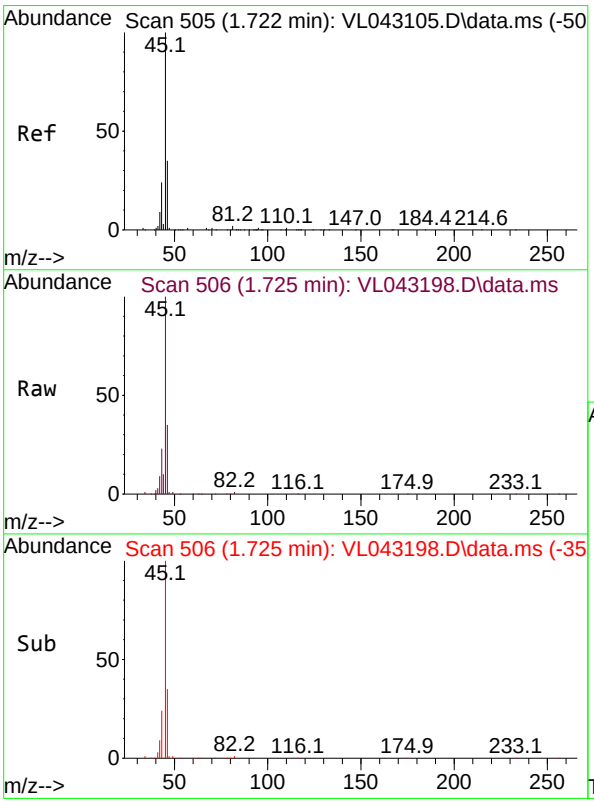
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1DL

Tgt Ion: 49 Resp: 138276

Ion	Ratio	Lower	Upper
49	100		
128	44.0	24.4	73.4
130	57.3	31.0	93.0

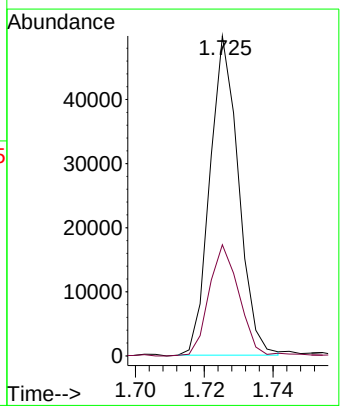


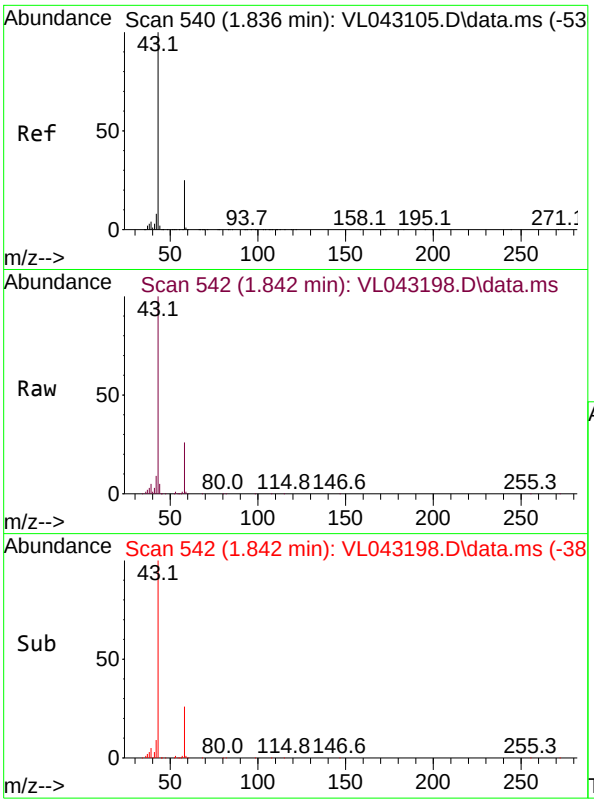


#13
Ethanol
Concen: 8.253 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Tgt Ion: 45 Resp: 28798

Ion	Ratio	Lower	Upper
45	100		
46	37.3	14.7	58.9



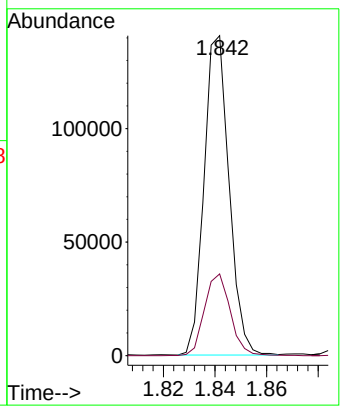


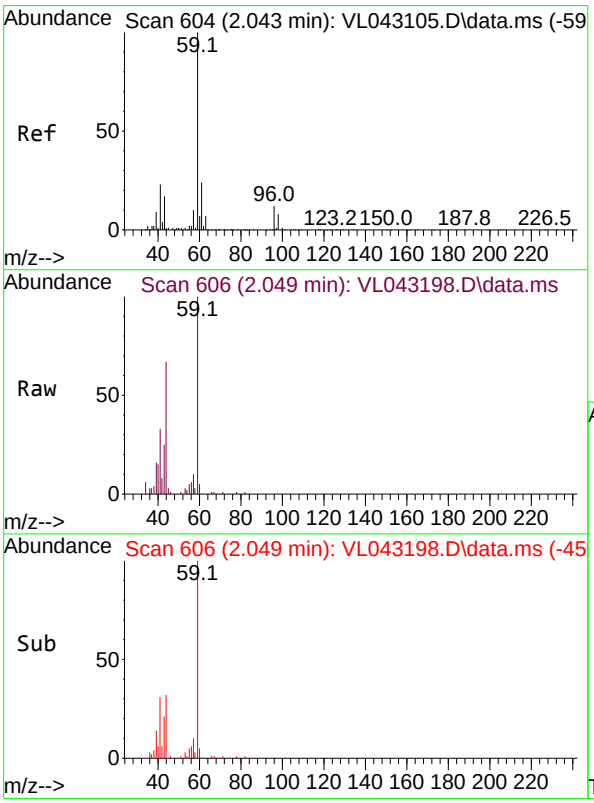
#15
Acetone
Concen: 5.076 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1DL

Tgt Ion: 43 Resp: 94610

Ion	Ratio	Lower	Upper
43	100		
58	26.4	20.8	31.2

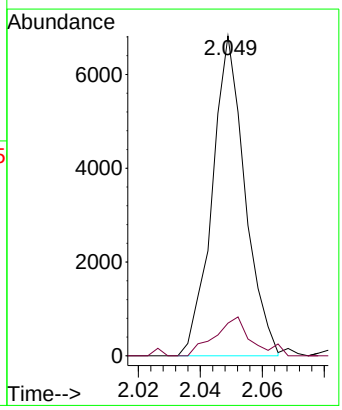


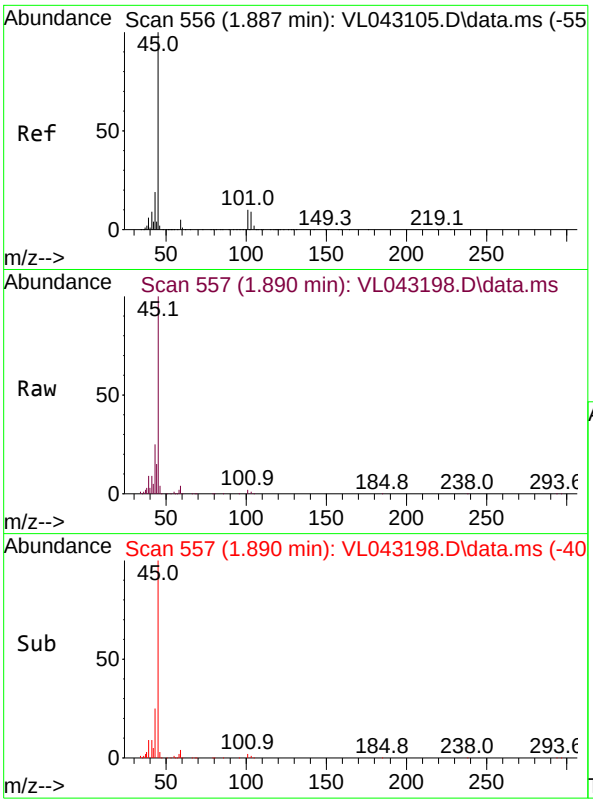


#17
tert-Butyl alcohol
Concen: 0.196 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.006 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Tgt Ion: 59 Resp: 5023

Ion	Ratio	Lower	Upper
59	100		
57	14.1	8.2	12.4#



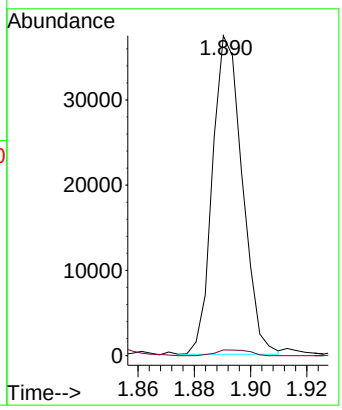


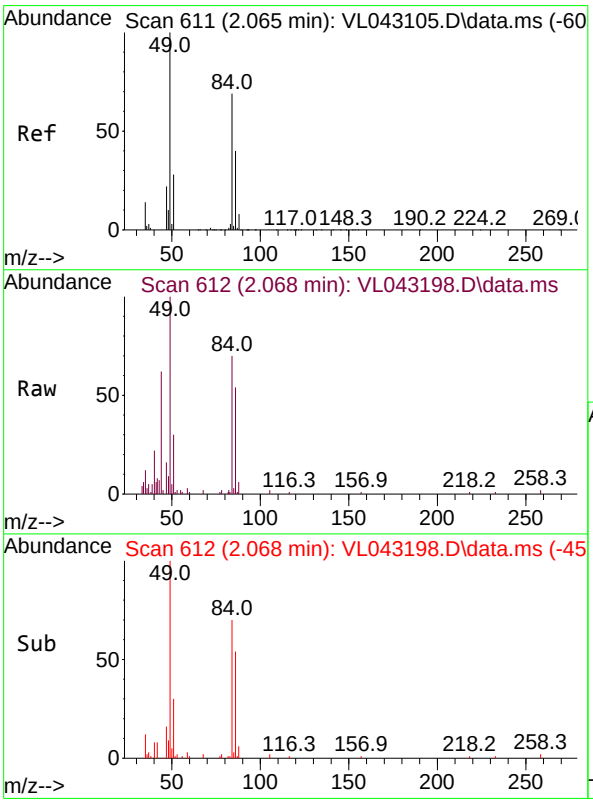
#19
Isopropyl Alcohol
Concen: 2.370 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1DL

Tgt Ion: 45 Resp: 27516

Ion	Ratio	Lower	Upper
45	100		
58	90.9	31.3	46.9#

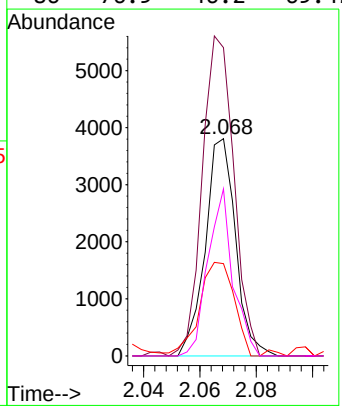


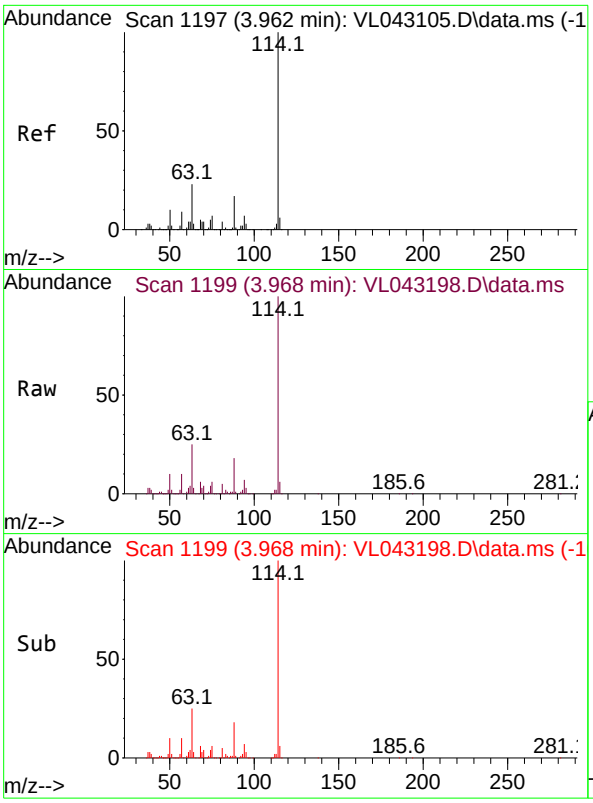


#20
Methylene Chloride
Concen: 0.387 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Tgt Ion: 84 Resp: 2854

Ion	Ratio	Lower	Upper
84	100		
49	142.0	116.6	175.0
51	40.9	34.8	52.2
86	76.9	46.2	69.4#



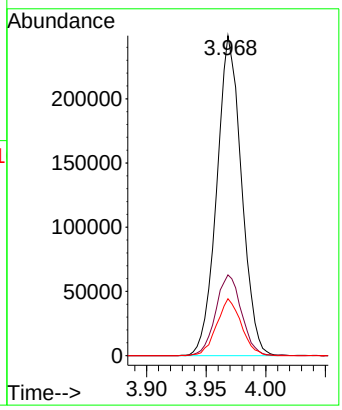


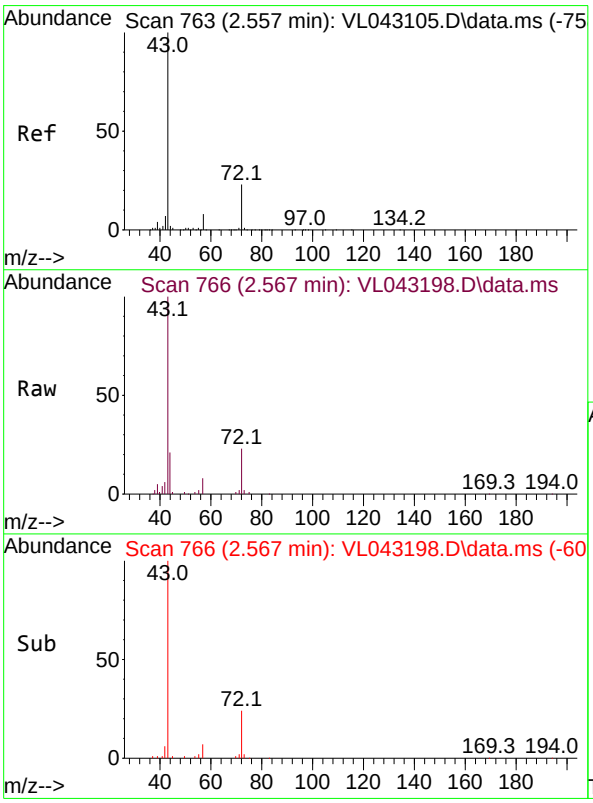
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1DL

Tgt Ion:114 Resp: 360106

Ion	Ratio	Lower	Upper
114	100		
63	26.2	19.3	28.9
88	17.7	13.9	20.9

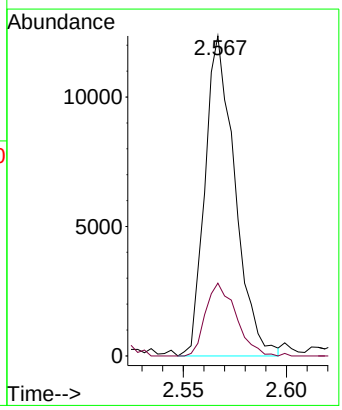


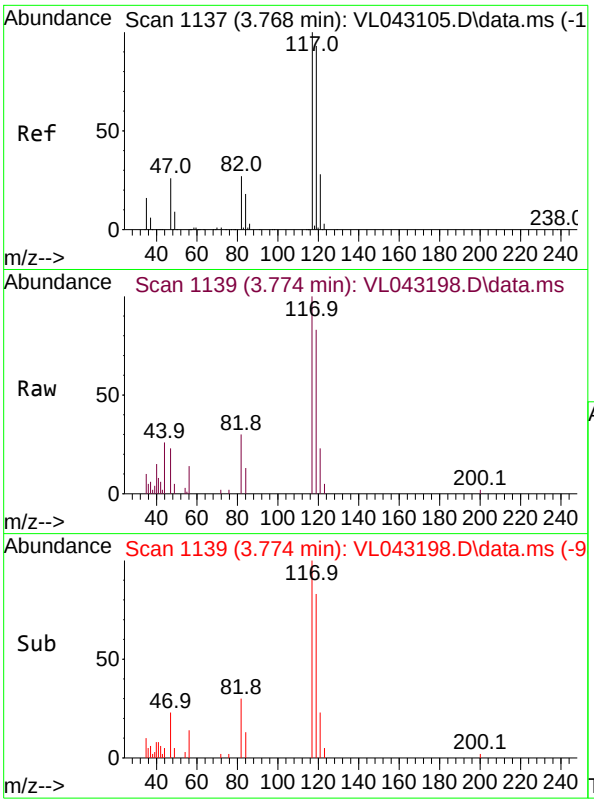


#34
2-Butanone
Concen: 0.514 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.009 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Tgt Ion: 43 Resp: 12439

Ion	Ratio	Lower	Upper
43	100		
72	23.2	18.4	27.6



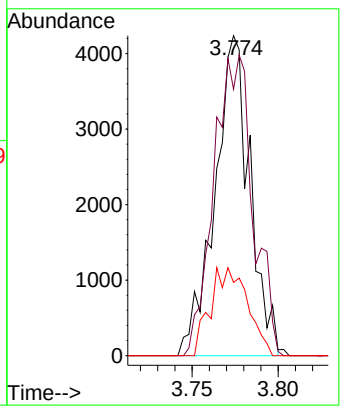


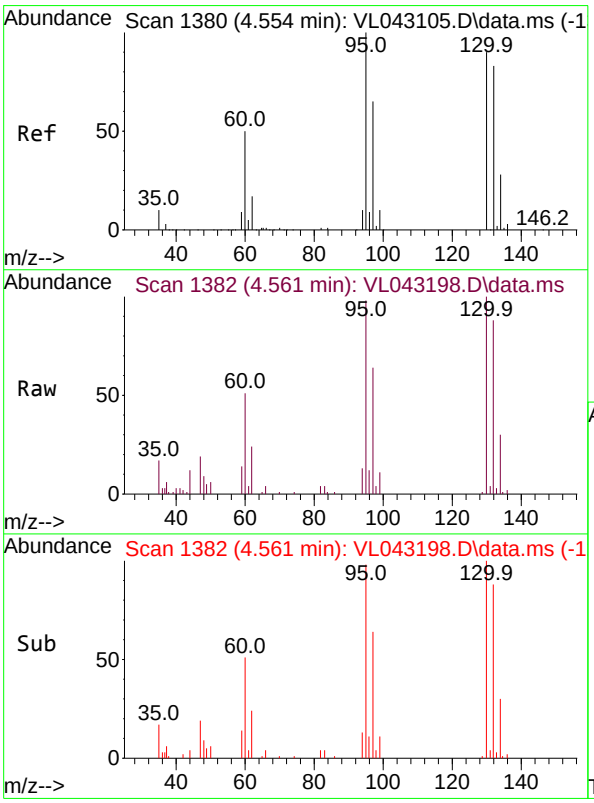
#35
Carbon Tetrachloride
Concen: 0.232 ppbv
RT: 3.774 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1DL

Tgt Ion:117 Resp: 5994

Ion	Ratio	Lower	Upper
117	100		
119	83.2	74.1	111.1
121	22.9	22.2	33.2

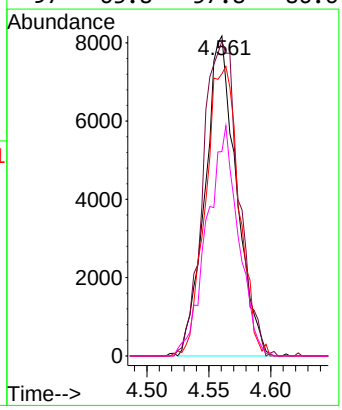


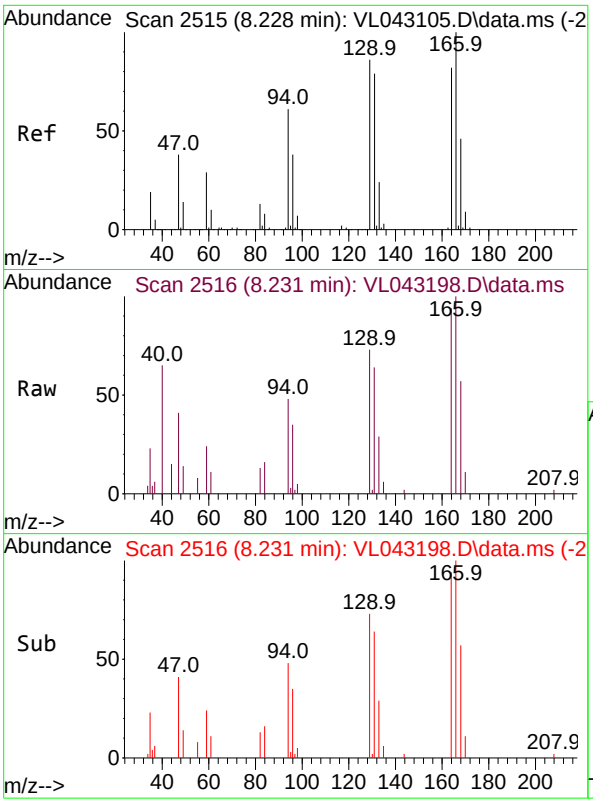


#38
Trichloroethene
Concen: 1.013 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Tgt Ion:130 Resp: 14356

Ion	Ratio	Lower	Upper
130	100		
95	98.3	88.6	133.0
132	88.1	73.4	110.0
97	63.8	57.8	86.6



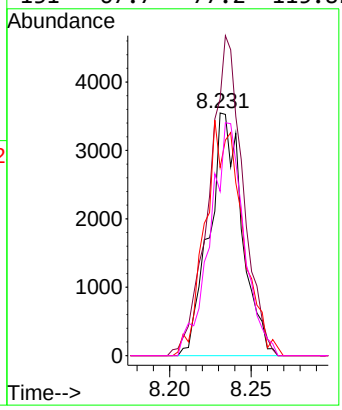


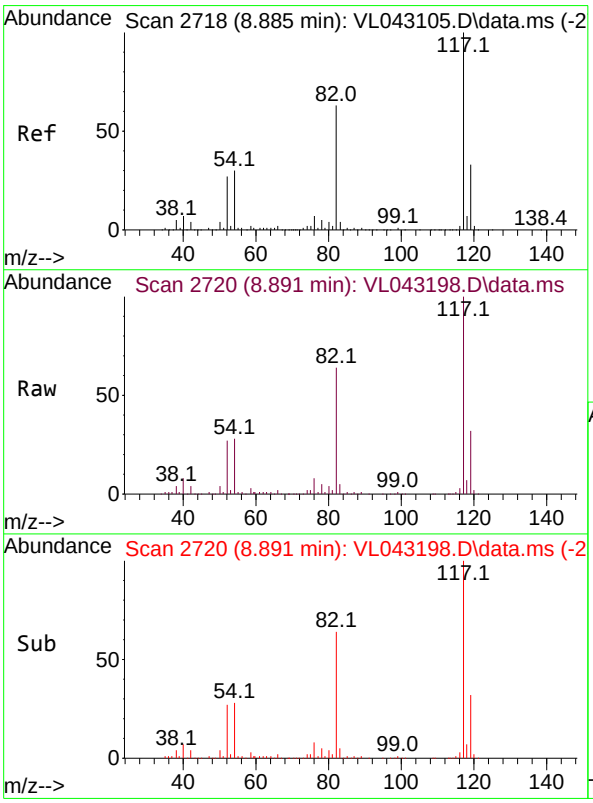
#52
Tetrachloroethene
Concen: 0.410 ppbv
RT: 8.231 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1DL

Tgt Ion:164 Resp: 5011

Ion	Ratio	Lower	Upper
164	100		
166	105.8	97.6	146.4
129	76.0	84.5	126.7#
131	67.7	77.2	115.8#

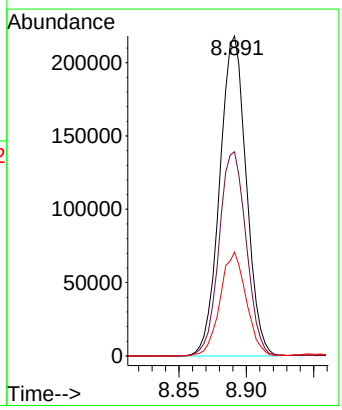


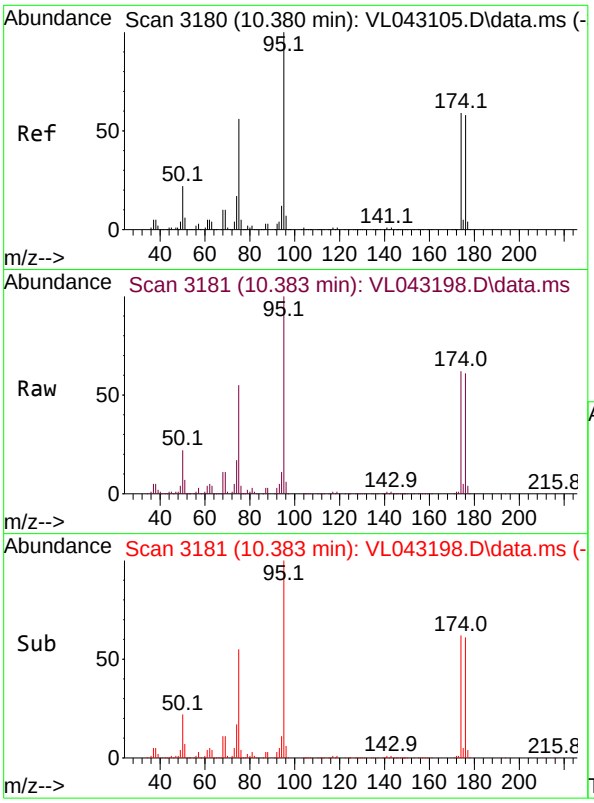


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.006 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Tgt Ion:117 Resp: 298832

Ion	Ratio	Lower	Upper
117	100		
82	65.5	53.8	80.8
119	31.9	25.4	38.0



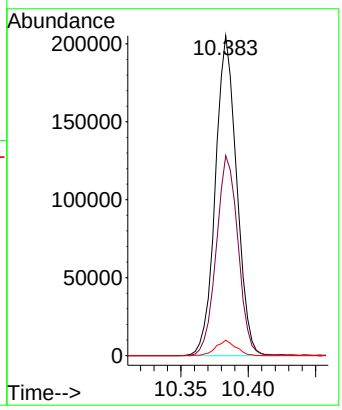


#68
1-Bromo-4-Fluorobenzene
Concen: 9.707 ppbv
RT: 10.383 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043198.D
Acq: 13 Nov 2025 14:14

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1DL

Tgt Ion: 95 Resp: 225464

Ion	Ratio	Lower	Upper
95	100		
174	64.3	48.3	72.5
175	4.5	3.8	5.8



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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-7-SS-1	SDG No.:	Q3627
Lab Sample ID:	Q3627-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.46	2.27	J	2	1.09	4.94	11/13/25 15:58	VL111325
74-87-3	Chloromethane	0.78	1.61	J	2	0.41	2.07	11/13/25 15:58	VL111325
75-01-4	Vinyl Chloride	0.050	0.13	U	2	0.13	0.15	11/13/25 15:58	VL111325
74-83-9	Bromomethane	0.15	0.58	U	2	0.58	3.88	11/13/25 15:58	VL111325
75-00-3	Chloroethane	0.30	0.79	U	2	0.79	2.64	11/13/25 15:58	VL111325
109-99-9	Tetrahydrofuran	0.89	2.62	J	2	0.47	2.95	11/13/25 15:58	VL111325
75-69-4	Trichlorofluoromethane	0.41	2.30	J	2	1.91	5.62	11/13/25 15:58	VL111325
76-13-1	1,1,2-Trichlorotrifluoroethane	0.28	2.15	U	2	2.15	7.66	11/13/25 15:58	VL111325
76-14-2	Dichlorotetrafluoroethane	0.30	2.10	U	2	2.10	6.99	11/13/25 15:58	VL111325
75-65-0	tert-Butyl alcohol	1.80	5.46		2	0.97	3.03	11/13/25 15:58	VL111325
142-82-5	Heptane	0.71	2.91	J	2	1.39	4.10	11/13/25 15:58	VL111325
75-35-4	1,1-Dichloroethene	0.30	1.19	U	2	1.19	3.96	11/13/25 15:58	VL111325
67-64-1	Acetone	49.4	117	E	2	0.86	2.38	11/13/25 15:58	VL111325
75-15-0	Carbon Disulfide	1.20	3.74		2	0.50	3.11	11/13/25 15:58	VL111325
1634-04-4	Methyl tert-Butyl Ether	0.46	1.66	U	2	1.66	3.61	11/13/25 15:58	VL111325
75-09-2	Methylene Chloride	1.40	4.86		2	1.60	3.47	11/13/25 15:58	VL111325
156-60-5	trans-1,2-Dichloroethene	0.24	0.95	U	2	0.95	3.96	11/13/25 15:58	VL111325
75-34-3	1,1-Dichloroethane	0.26	1.05	U	2	1.05	4.05	11/13/25 15:58	VL111325
110-82-7	Cyclohexane	0.44	1.51	U	2	1.51	3.44	11/13/25 15:58	VL111325
78-93-3	2-Butanone	14.9	43.9		2	0.32	2.95	11/13/25 15:58	VL111325
56-23-5	Carbon Tetrachloride	0.32	2.01		2	0.31	0.38	11/13/25 15:58	VL111325
156-59-2	cis-1,2-Dichloroethene	0.20	0.79	U	2	0.79	3.96	11/13/25 15:58	VL111325
67-66-3	Chloroform	0.31	1.51	J	2	0.93	4.88	11/13/25 15:58	VL111325
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	2	0.16	0.33	11/13/25 15:58	VL111325
540-84-1	2,2,4-Trimethylpentane	0.28	1.31	U	2	1.31	4.67	11/13/25 15:58	VL111325
71-43-2	Benzene	1.80	5.75		2	0.51	3.19	11/13/25 15:58	VL111325
107-06-2	1,2-Dichloroethane	0.19	0.77	U	2	0.77	4.05	11/13/25 15:58	VL111325
79-01-6	Trichloroethene	0.27	1.45		2	0.27	0.32	11/13/25 15:58	VL111325
78-87-5	1,2-Dichloropropane	0.26	1.20	U	2	1.20	4.62	11/13/25 15:58	VL111325
75-27-4	Bromodichloromethane	0.13	0.87	U	2	0.87	6.70	11/13/25 15:58	VL111325
108-10-1	4-Methyl-2-Pentanone	10.6	43.4		2	0.78	4.10	11/13/25 15:58	VL111325
108-88-3	Toluene	1.40	5.28		2	1.21	3.77	11/13/25 15:58	VL111325
10061-02-6	t-1,3-Dichloropropene	0.30	1.36	U	2	1.36	4.54	11/13/25 15:58	VL111325
10061-01-5	cis-1,3-Dichloropropene	0.22	1.00	U	2	1.00	4.54	11/13/25 15:58	VL111325
79-00-5	1,1,2-Trichloroethane	0.16	0.87	U	2	0.87	5.46	11/13/25 15:58	VL111325
124-48-1	Dibromochloromethane	0.17	1.45	U	2	1.45	8.52	11/13/25 15:58	VL111325
106-93-4	1,2-Dibromoethane	0.17	1.31	U	2	1.31	1.54	11/13/25 15:58	VL111325
127-18-4	Tetrachloroethene	10.4	70.5		2	0.20	0.41	11/13/25 15:58	VL111325
108-90-7	Chlorobenzene	0.15	0.69	U	2	0.69	4.61	11/13/25 15:58	VL111325
100-41-4	Ethyl Benzene	0.38	1.65	U	2	1.65	4.34	11/13/25 15:58	VL111325
179601-23-1	m/p-Xylene	0.82	3.56	U	2	3.56	8.69	11/13/25 15:58	VL111325
95-47-6	o-Xylene	0.42	1.82	U	2	1.82	4.34	11/13/25 15:58	VL111325
100-42-5	Styrene	0.32	1.36	U	2	1.36	4.26	11/13/25 15:58	VL111325
75-25-2	Bromoform	0.10	1.03	U	2	1.03	10.3	11/13/25 15:58	VL111325
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	U	2	0.27	0.41	11/13/25 15:58	VL111325
95-49-8	2-Chlorotoluene	0.34	1.76	U	2	1.76	5.18	11/13/25 15:58	VL111325

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-7-SS-1	SDG No.:	Q3627
Lab Sample ID:	Q3627-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3		Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92		11/13/25 15:58	VL111325
95-63-6	1,2,4-Trimethylbenzene	0.36	1.77	U	2	1.77	4.92		11/13/25 15:58	VL111325
541-73-1	1,3-Dichlorobenzene	0.11	0.66	U	2	0.66	6.01		11/13/25 15:58	VL111325
106-46-7	1,4-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01		11/13/25 15:58	VL111325
95-50-1	1,2-Dichlorobenzene	0.26	1.56	U	2	1.56	6.01		11/13/25 15:58	VL111325
120-82-1	1,2,4-Trichlorobenzene	0.42	3.12	U	2	3.12	7.42		11/13/25 15:58	VL111325
87-68-3	Hexachloro-1,3-Butadiene	0.26	2.77	U	2	2.77	10.7		11/13/25 15:58	VL111325
106-99-0	1,3-Butadiene	0.10	0.22	U	2	0.22	2.21		11/13/25 15:58	VL111325
91-20-3	Naphthalene	0.030	0.16	U	2	0.16	1.05		11/13/25 15:58	VL111325
622-96-8	4-Ethyltoluene	0.42	2.06	U	2	2.06	4.92		11/13/25 15:58	VL111325
110-54-3	Hexane	1.70	5.99		2	1.13	3.52		11/13/25 15:58	VL111325
107-05-1	Allyl Chloride	0.22	0.69	U	2	0.69	3.13		11/13/25 15:58	VL111325
123-91-1	1,4-Dioxane	0.44	1.59	U	2	1.59	3.60		11/13/25 15:58	VL111325
80-62-6	Methyl Methacrylate	0.28	1.15	U	2	1.15	4.09		11/13/25 15:58	VL111325
SURROGATES										
460-00-4	1-Bromo-4-Fluorobenzene	9.10				70 (65) - 130	91%	SPK: 10		
INTERNAL STANDARDS		**Area Count**								
74-97-5	Bromochloromethane	148000								
540-36-3	1,4-Difluorobenzene	400000								
3114-55-4	Chlorobenzene-d5	381000								

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\VL111325\
Data File : VL043201.D
Acq On : 13 Nov 2025 15:58
Operator : SY/MD
Sample : Q3627-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:41:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	147747	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	400343	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	381448	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	268804	9.066	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 90.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	4876	0.232	ppbv		93
4) Chloromethane	1.537	50	3247	0.390	ppbv		96
9) Propene	1.489	41	41551	4.122	ppbv		92
10) Heptane	4.991	43	10313	0.355	ppbv		92
11) Trichlorofluoromethane	1.884	101	4177	0.203	ppbv		95
13) Ethanol	1.725	45	711495	190.837	ppbv		96
15) Acetone	1.839	43	491909	24.702	ppbv		92
17) tert-Butyl alcohol	2.046	59	24573	0.899	ppbv		98
19) Isopropyl Alcohol	1.890	45	993000	80.062	ppbv	#	37
20) Methylene Chloride	2.068	84	5343	0.679	ppbv		91
26) Hexane	2.835	57	18948	0.833	ppbv	#	91
27) Carbon Disulfide	2.156	76	12592	0.604	ppbv	#	57
29) Chloroform	2.855	83	5153	0.156	ppbv		93
30) Cyclohexane	3.871	84	3547m	0.179	ppbv		
34) 2-Butanone	2.563	43	200156	7.438	ppbv		97
35) Carbon Tetrachloride	3.771	117	4587m	0.159	ppbv		
36) Benzene	3.664	78	33860	0.898	ppbv		96
38) Trichloroethene	4.564	130	2156	0.137	ppbv	#	80
41) Tetrahydrofuran	3.068	42	6671m	0.443	ppbv		
50) 4-Methyl-2-Pentanone	5.761	43	196948	5.303	ppbv		97
51) 2-Hexanone	7.448	43	36538	1.312	ppbv	#	90
52) Tetrachloroethene	8.237	164	70881	5.213	ppbv		91
53) Toluene	6.949	91	31937	0.714	ppbv		95
58) Ethyl Benzene	9.360	91	9783	0.149	ppbv		95
59) m/p-Xylene	9.542	91	14489m	0.277	ppbv		
60) o-Xylene	9.969	91	5876m	0.114	ppbv		
61) Styrene	9.875	104	3586	0.154	ppbv		94
62) Isopropylbenzene	10.545	105	13362	0.143	ppbv		100
74) 1,2,4-Trimethylbenzene	11.542	105	7762	0.133	ppbv	#	60

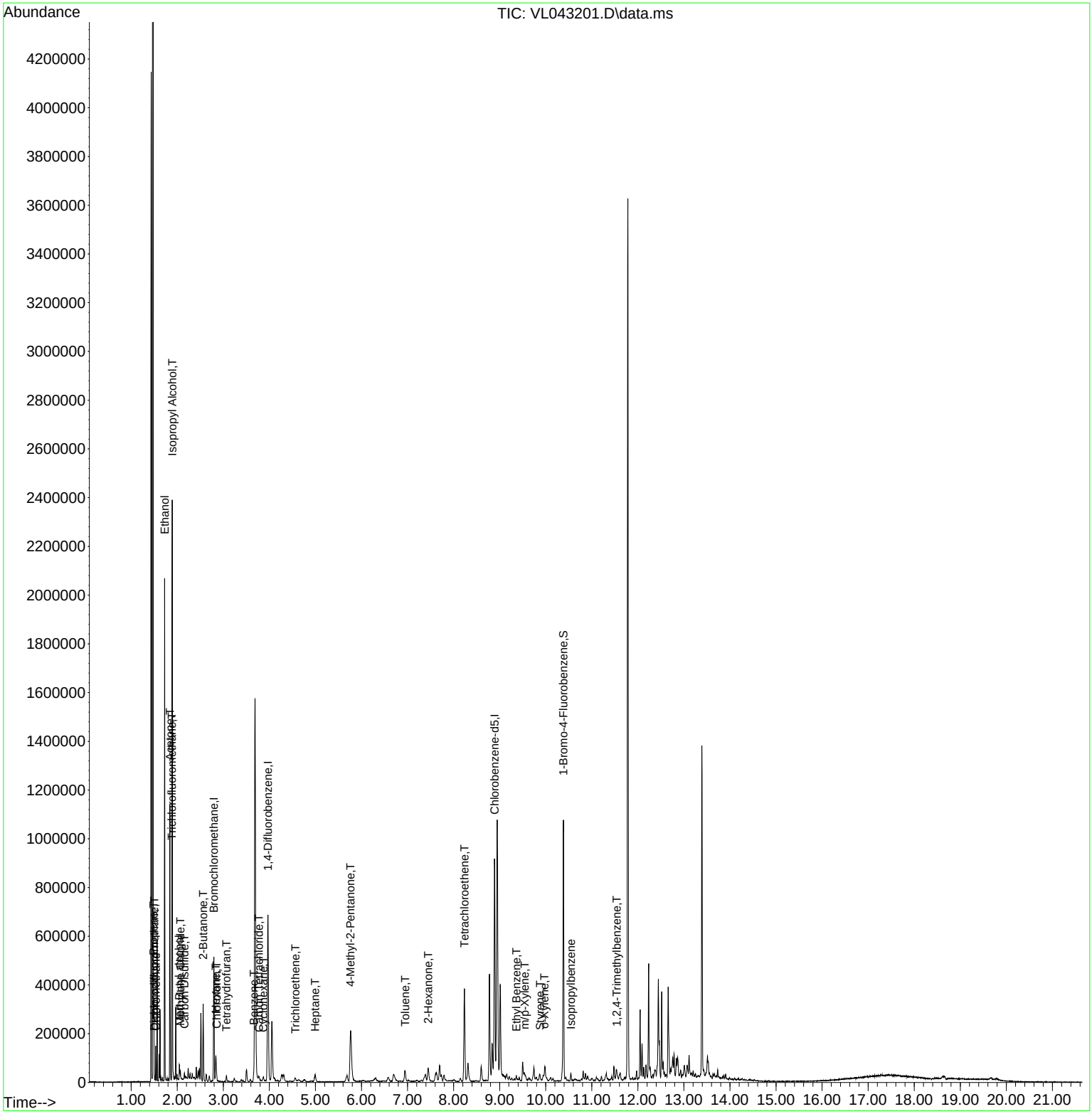
(#) = qualifier out of range (m) = manual integration (+) = signals summed

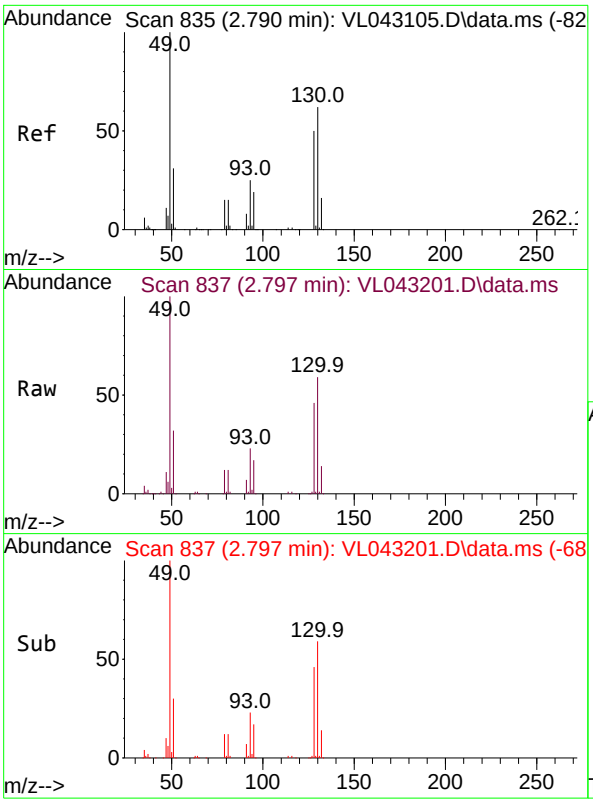
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043201.D
Acq On : 13 Nov 2025 15:58
Operator : SY/MD
Sample : Q3627-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:41:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

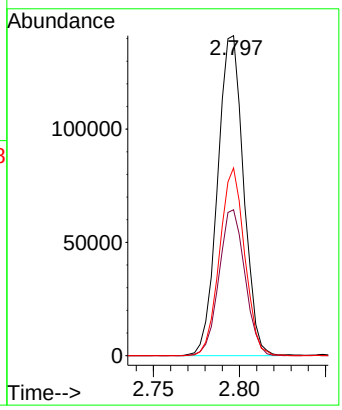




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 49 Resp: 14774

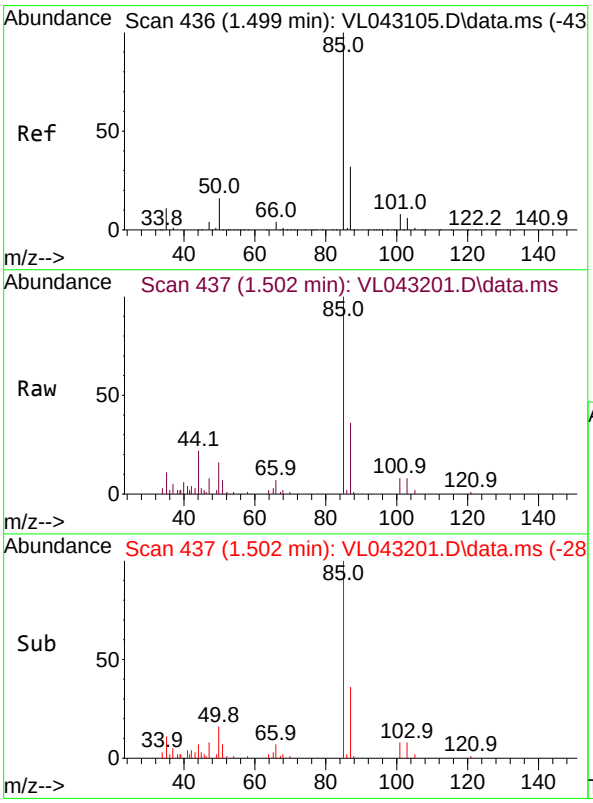
Ion	Ratio	Lower	Upper
49	100		
128	45.6	24.4	73.4
130	56.6	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Manual Integrations
APPROVED

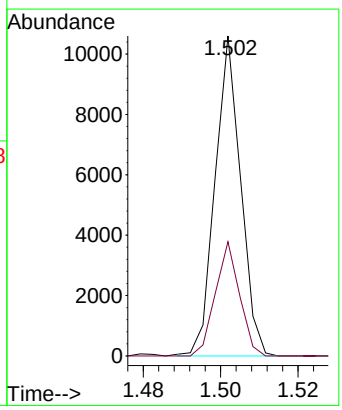
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

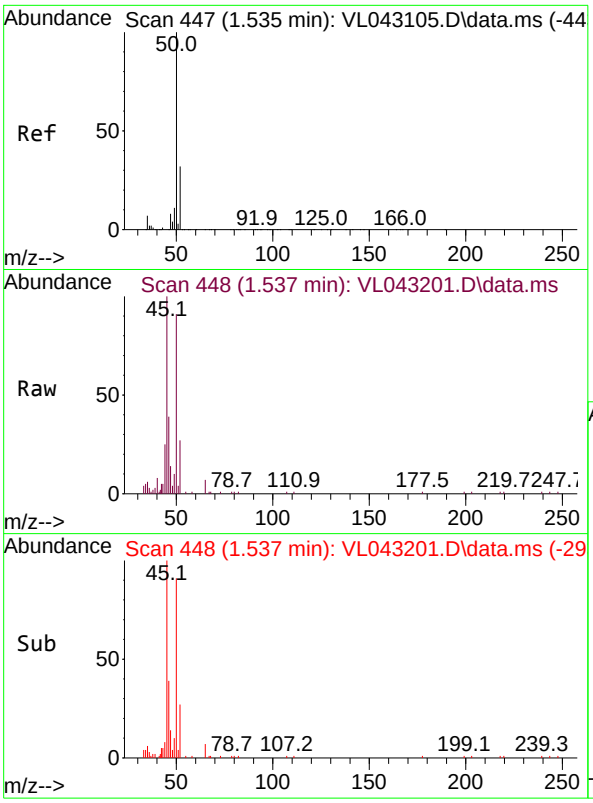


#2
Dichlorodifluoromethane
Concen: 0.232 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 85 Resp: 4876

Ion	Ratio	Lower	Upper
85	100		
87	35.7	25.3	37.9

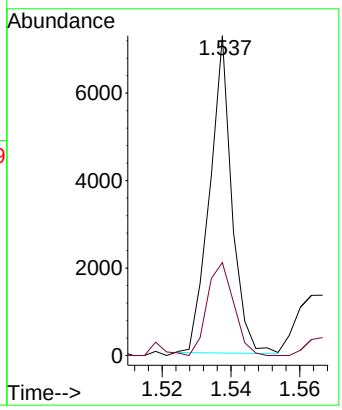




#4
Chloromethane
Concen: 0.390 ppbv
RT: 1.537 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 50 Resp: 324

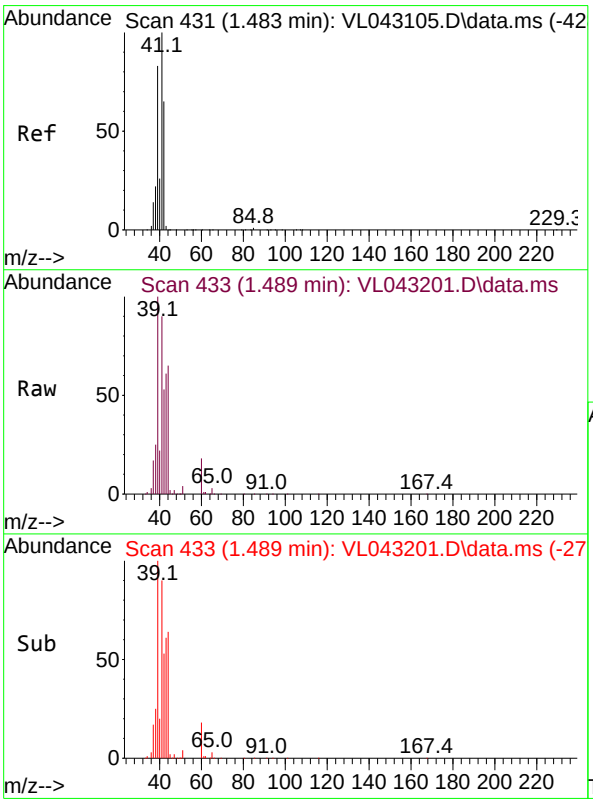
Ion	Ratio	Lower	Upper
50	100		
52	29.3	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Manual Integrations
APPROVED

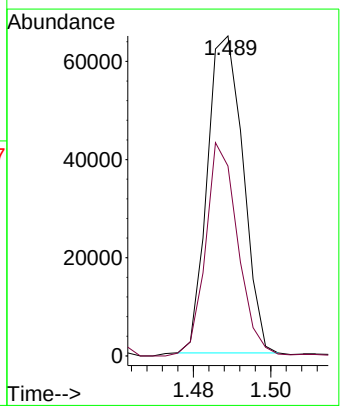
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

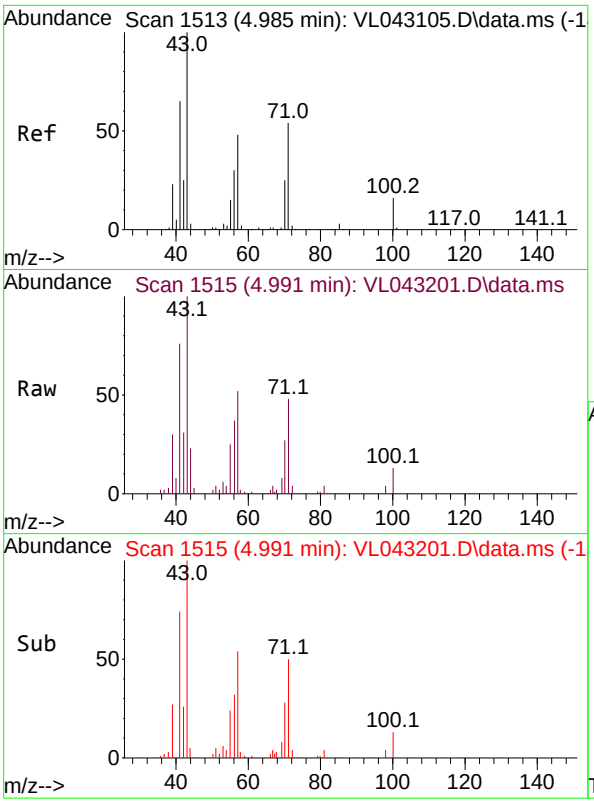


#9
Propene
Concen: 4.122 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 41 Resp: 41551

Ion	Ratio	Lower	Upper
41	100		
42	62.5	55.1	82.7

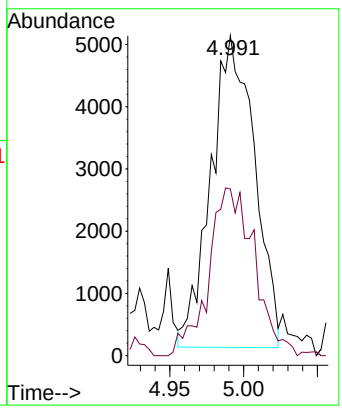




#10
Heptane
Concen: 0.355 ppbv
RT: 4.991 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 43 Resp: 1031

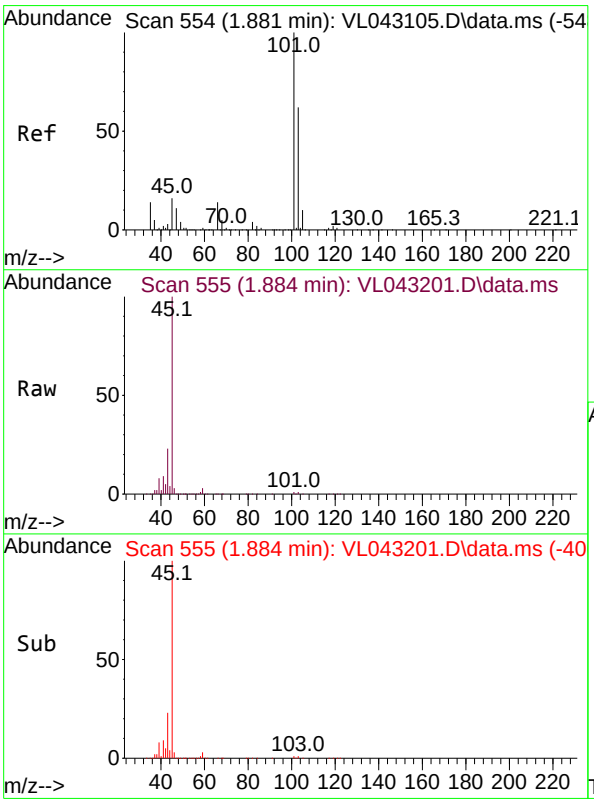
Ion	Ratio	Lower	Upper
43	100		
57	56.5	40.8	61.2



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Manual Integrations
APPROVED

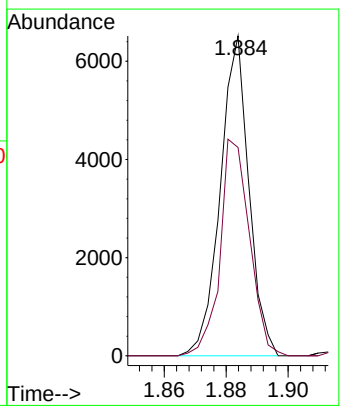
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

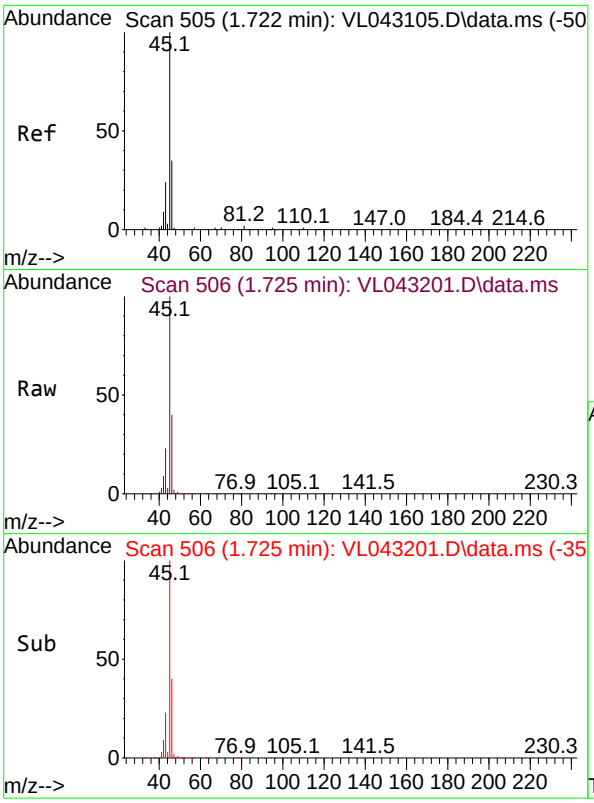


#11
Trichlorofluoromethane
Concen: 0.203 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:101 Resp: 4177

Ion	Ratio	Lower	Upper
101	100		
103	65.1	49.3	73.9

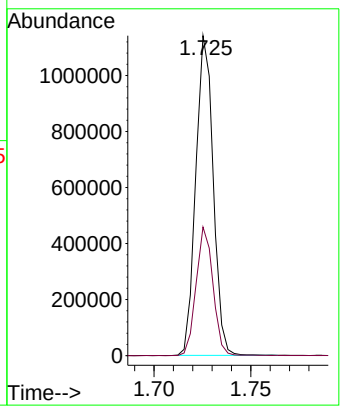




#13
Ethanol
Concen: 190.837 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 45 Resp: 71149

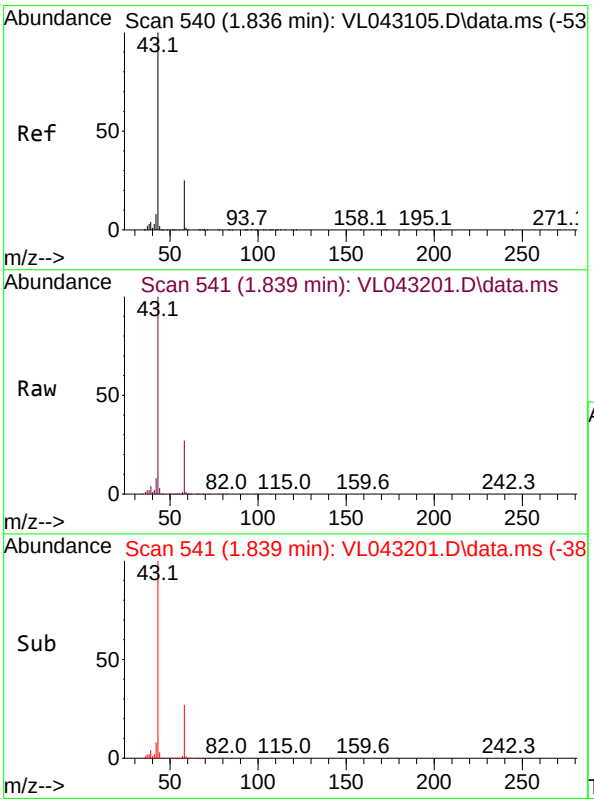
Ion	Ratio	Lower	Upper
45	100		
46	39.2	14.7	58.9



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Manual Integrations
APPROVED

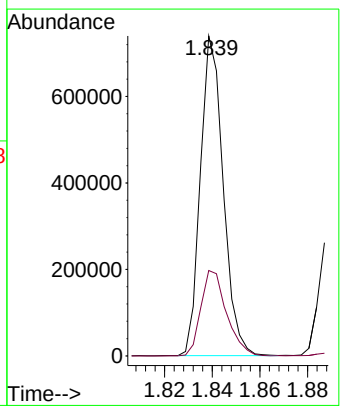
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

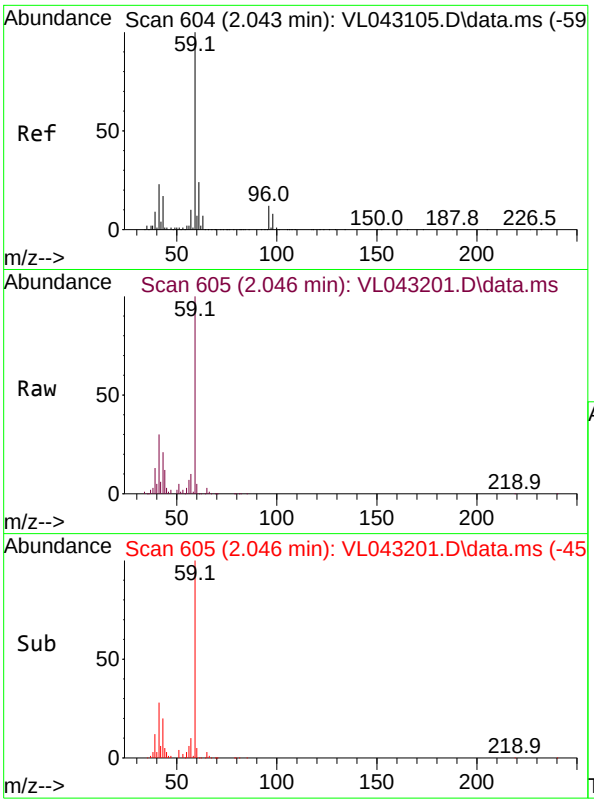


#15
Acetone
Concen: 24.702 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 43 Resp: 491909

Ion	Ratio	Lower	Upper
43	100		
58	30.0	20.8	31.2

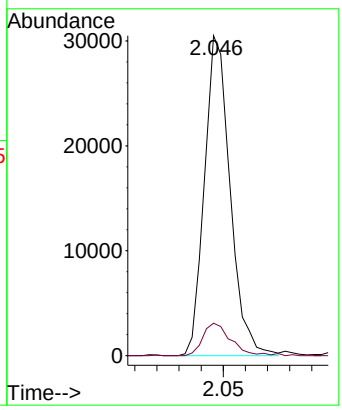




#17
tert-Butyl alcohol
Concen: 0.899 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 59 Resp: 2457

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.2	12.4



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

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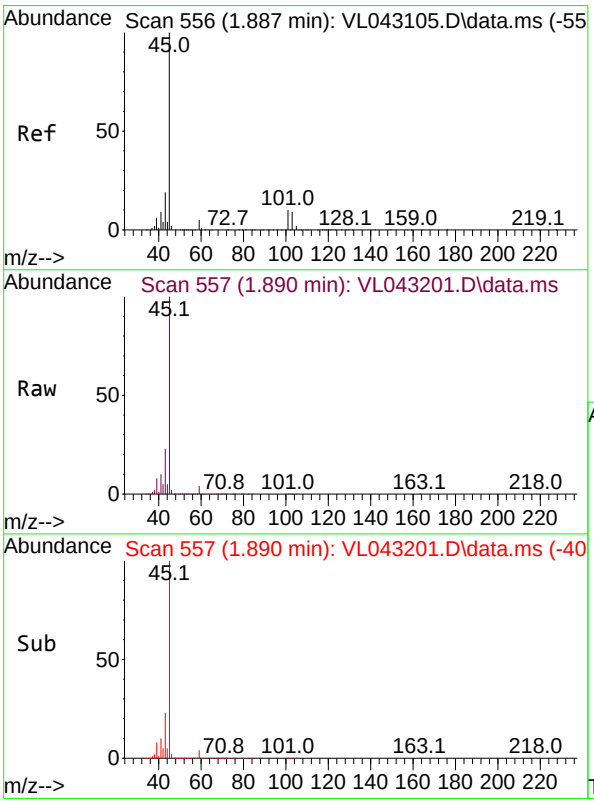
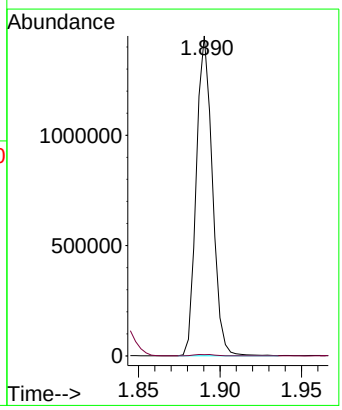
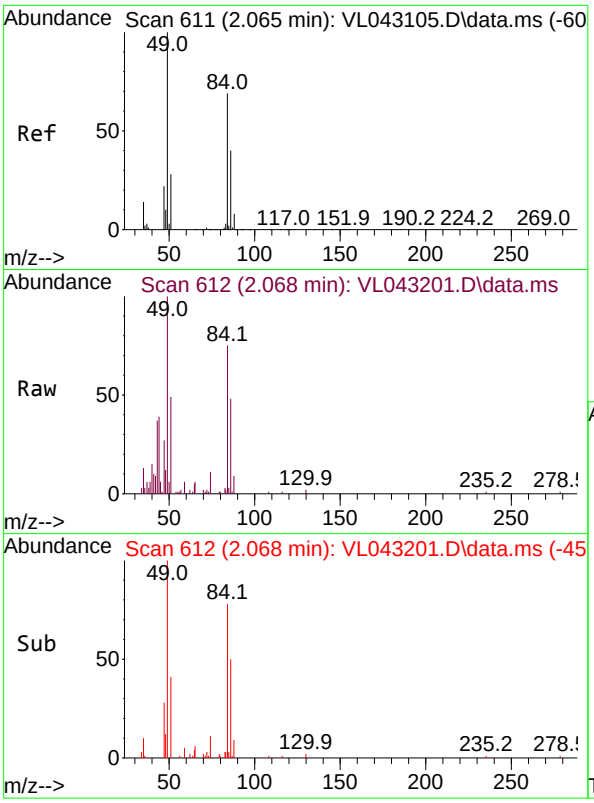


#19
Isopropyl Alcohol
Concen: 80.062 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 45 Resp: 993000

Ion	Ratio	Lower	Upper
45	100		
58	0.6	31.3	46.9#

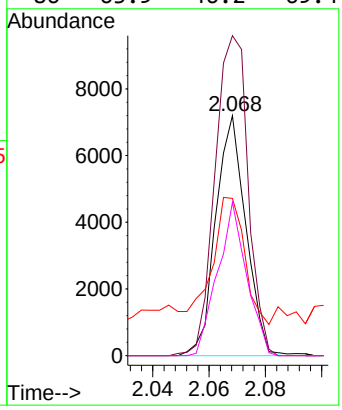




#20
Methylene Chloride
Concen: 0.679 ppbv
RT: 2.068 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 84 Resp: 534

Ion	Ratio	Lower	Upper
84	100		
49	133.4	116.6	175.0
51	47.1	34.8	52.2
86	63.9	46.2	69.4



Instrument :
MSVOA_L
ClientSampleId :
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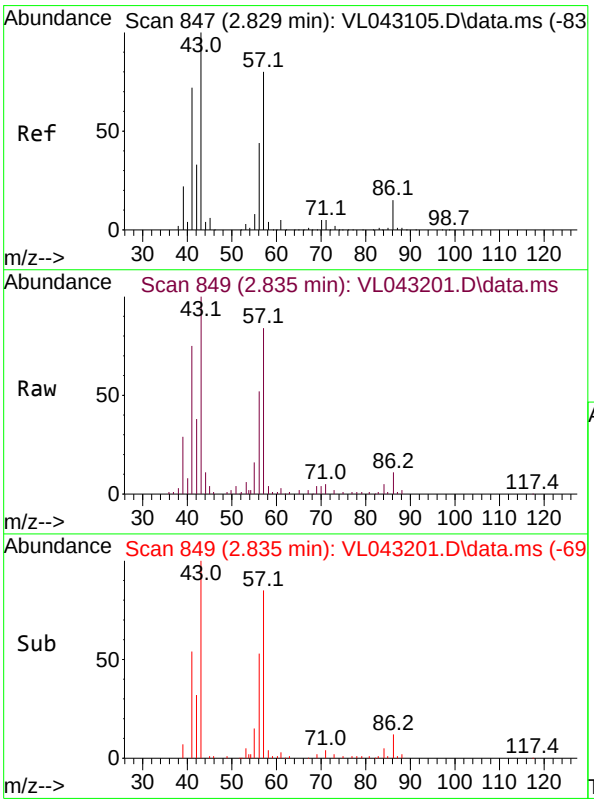
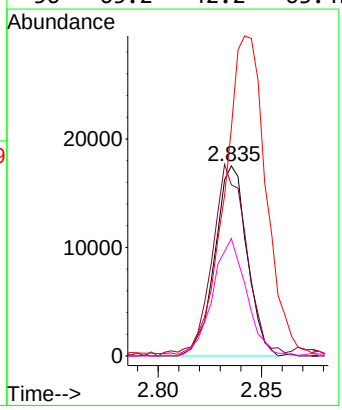
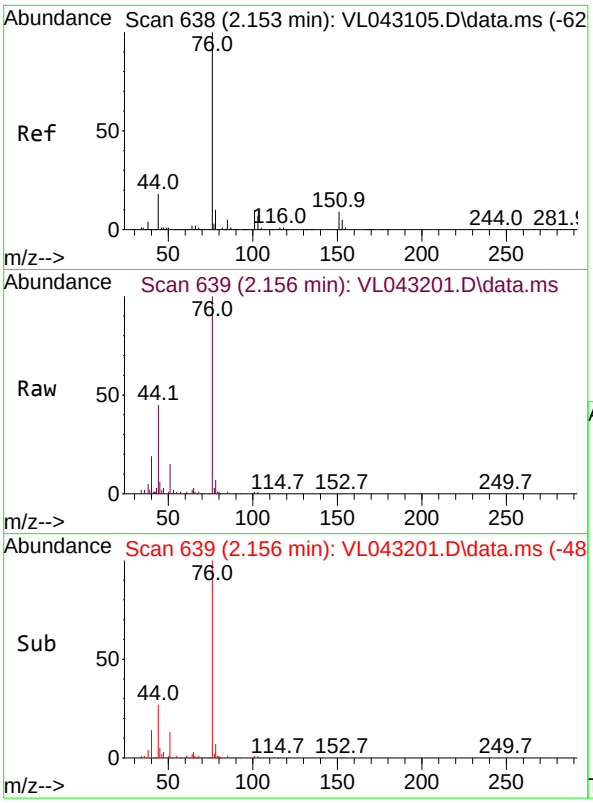


#26
Hexane
Concen: 0.833 ppbv
RT: 2.835 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 57 Resp: 18948

Ion	Ratio	Lower	Upper
57	100		
41	108.4	71.4	107.0#
43	218.2	178.5	267.7
56	65.2	42.2	63.4#

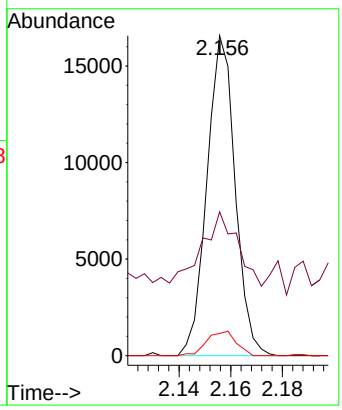




#27
Carbon Disulfide
Concen: 0.604 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 76 Resp: 1259

Ion	Ratio	Lower	Upper
76	100		
44	49.6	16.7	25.1#
78	7.9	9.3	13.9#



Instrument :
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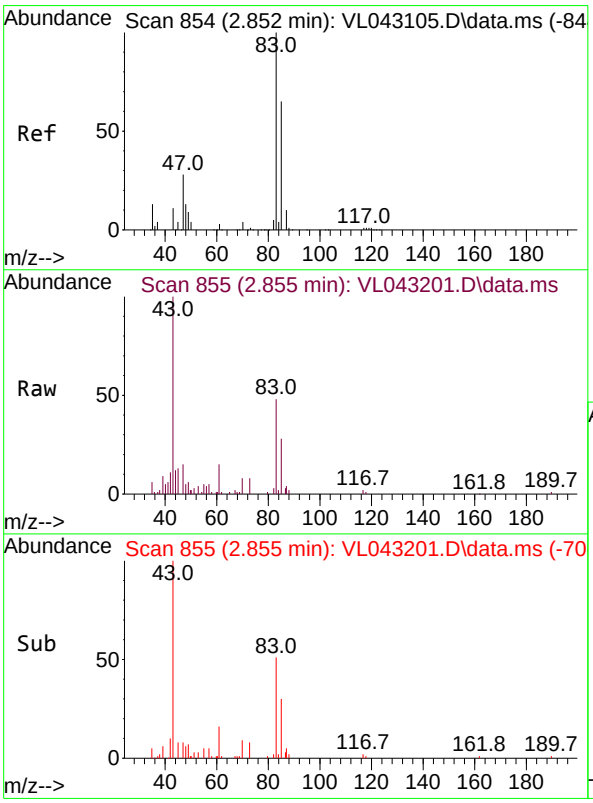
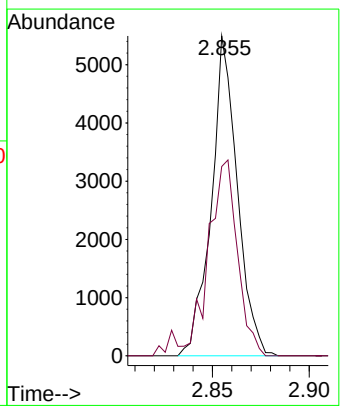
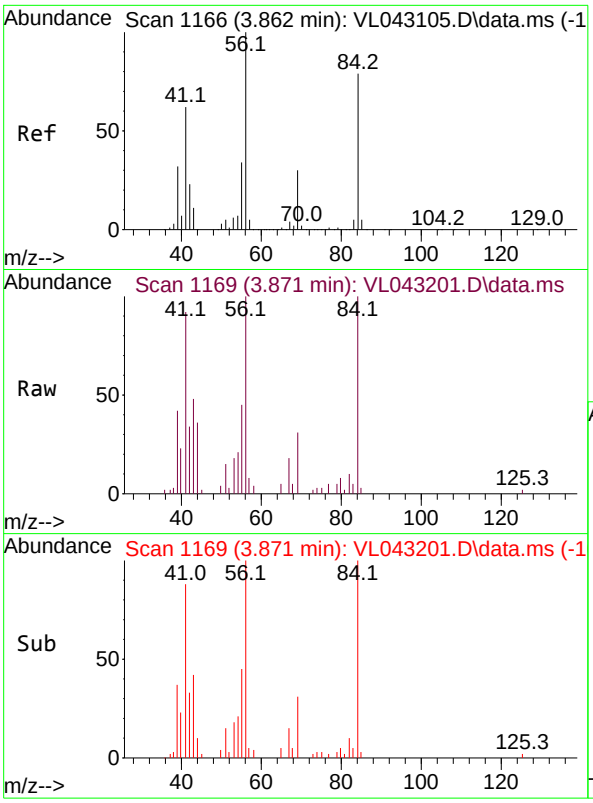


#29
Chloroform
Concen: 0.156 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 83 Resp: 5153

Ion	Ratio	Lower	Upper
83	100		
85	59.2	51.8	77.6

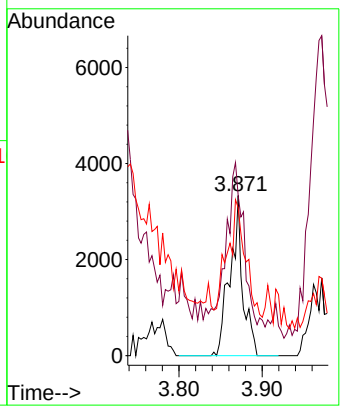




#30
Cyclohexane
Concen: 0.179 ppbv m
RT: 3.871 min Scan# 11
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 84 Resp: 354

Ion	Ratio	Lower	Upper
84	100		
56	0.0	100.9	151.3#
41	0.0	63.8	95.6#



Instrument :
MSVOA_L
ClientSampleId :
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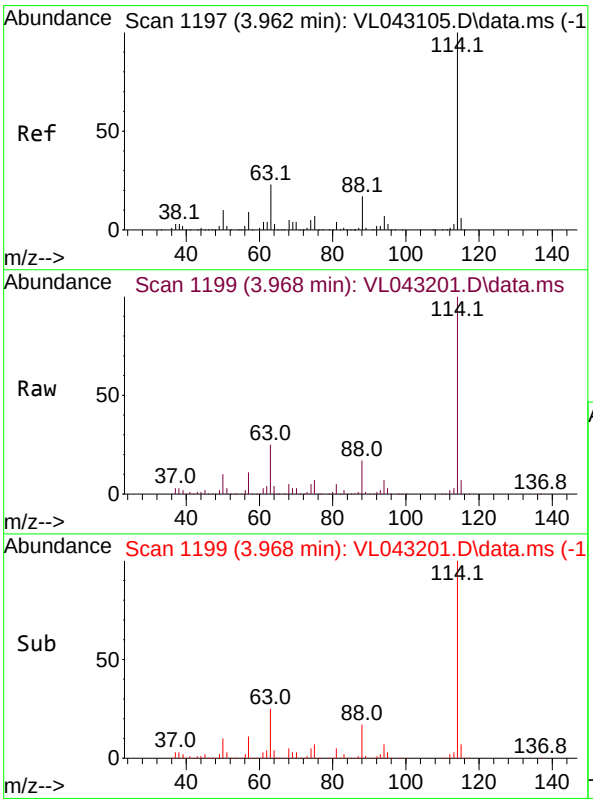
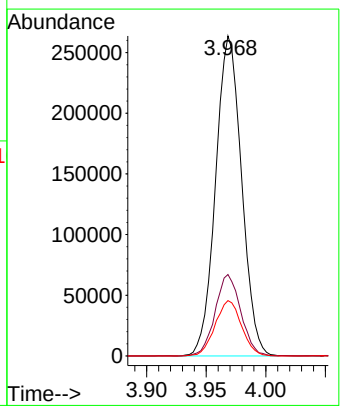
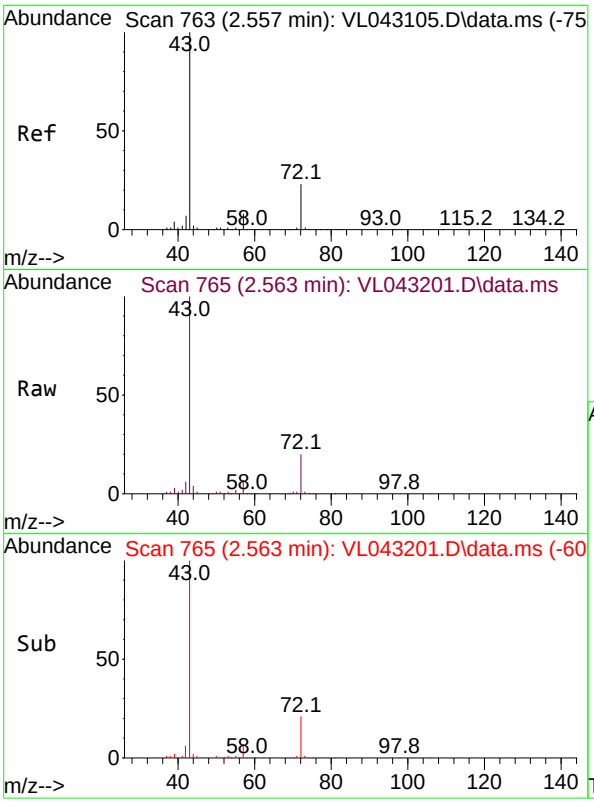


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:114 Resp: 400343

Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.3	28.9
88	17.5	13.9	20.9





#34
2-Butanone
Concen: 7.438 ppbv
RT: 2.563 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 43 Resp: 20015

Ion	Ratio	Lower	Upper
43	100		
72	21.5	18.4	27.6

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

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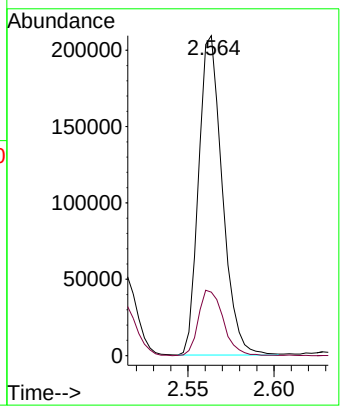
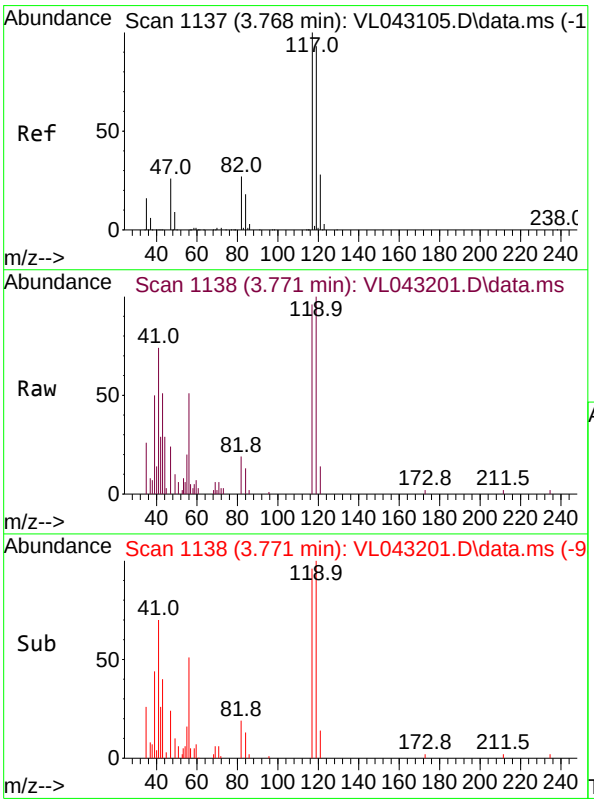
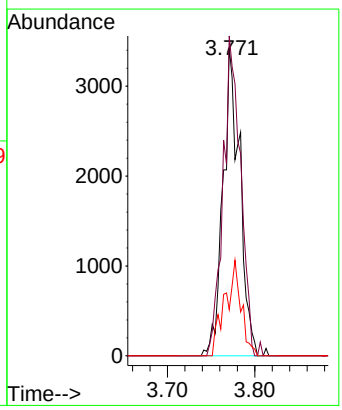


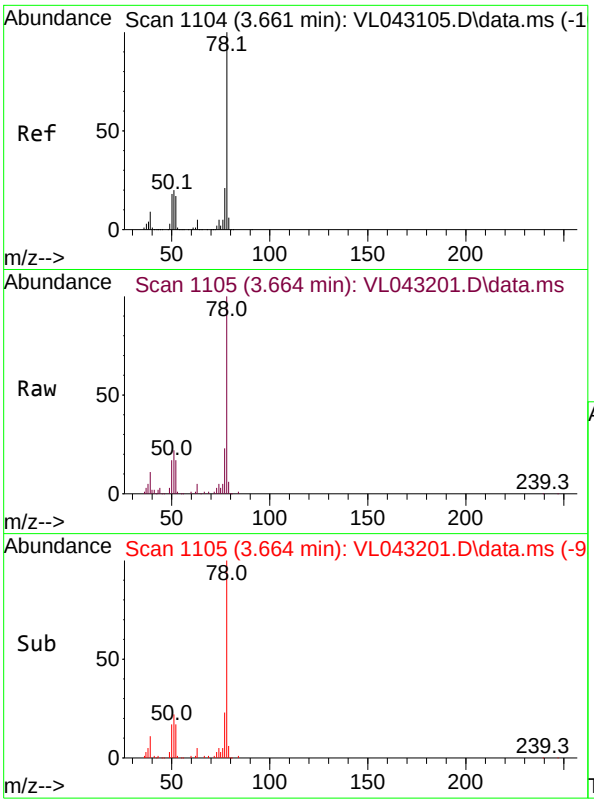


#35
Carbon Tetrachloride
Concen: 0.159 ppbv m
RT: 3.771 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:117 Resp: 4587

Ion	Ratio	Lower	Upper
117	100		
119	103.9	74.1	111.1
121	15.0	22.2	33.2#

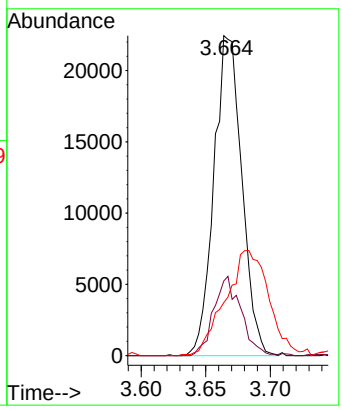




#36
Benzene
Concen: 0.898 ppbv
RT: 3.664 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 78 Resp: 3386

Ion	Ratio	Lower	Upper
78	100		
77	23.3	17.0	25.6
50	16.6	14.6	22.0



Instrument :
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ClientSampleId :
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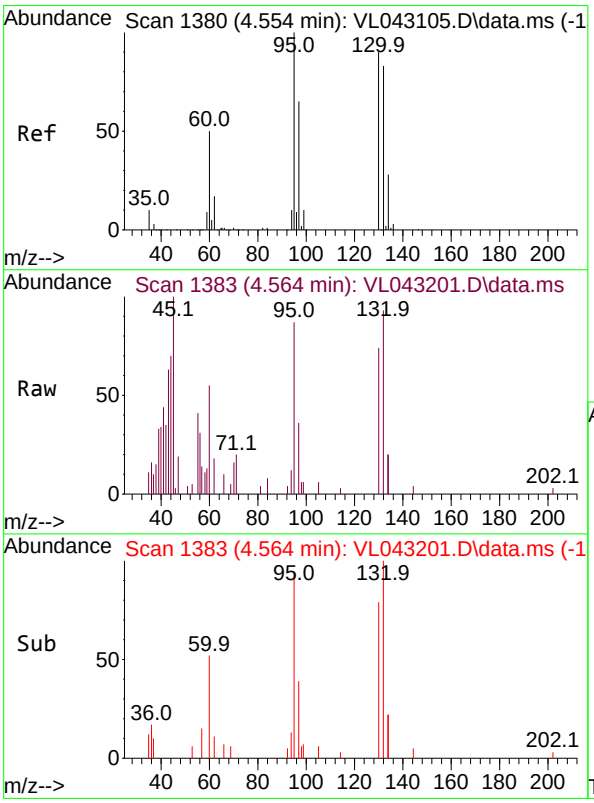
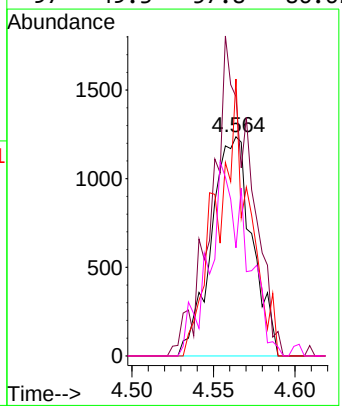
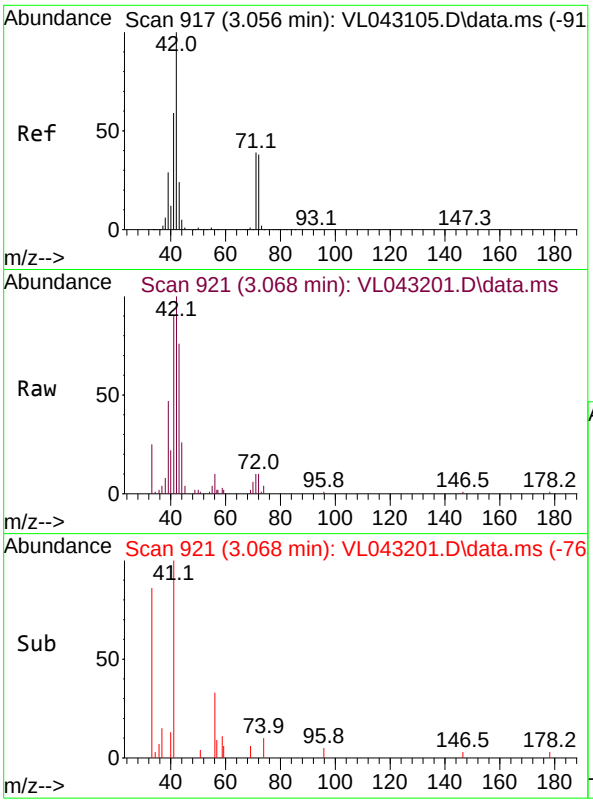


#38
Trichloroethene
Concen: 0.137 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:130 Resp: 2156

Ion	Ratio	Lower	Upper
130	100		
95	113.5	88.6	133.0
132	126.4	73.4	110.0#
97	49.3	57.8	86.6#





#41
Tetrahydrofuran
Concen: 0.443 ppbv m
RT: 3.068 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 42 Resp: 667

Ion	Ratio	Lower	Upper
42	100		
72	21.3	31.3	46.9#
71	17.4	30.4	45.6#

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

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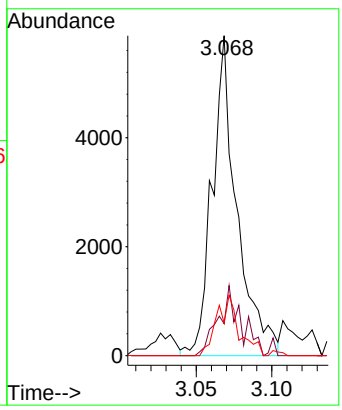
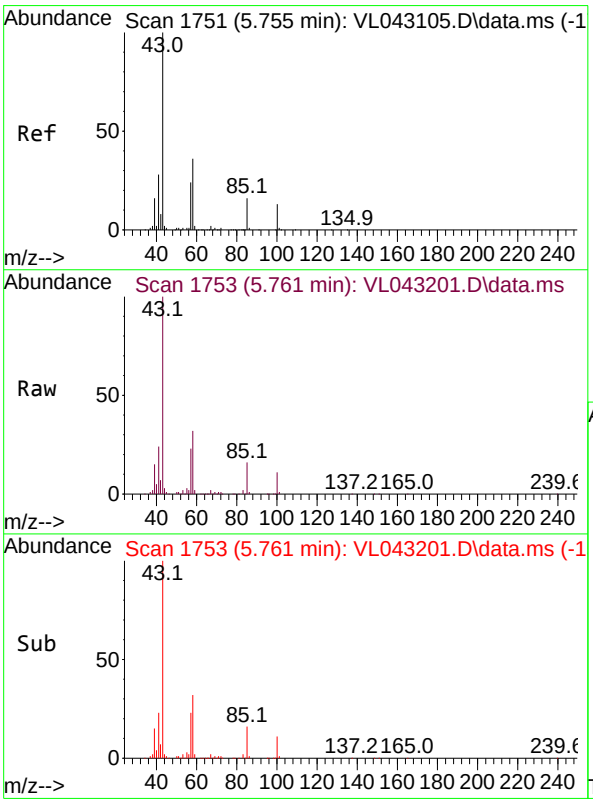
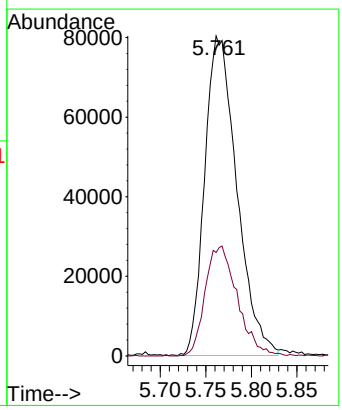


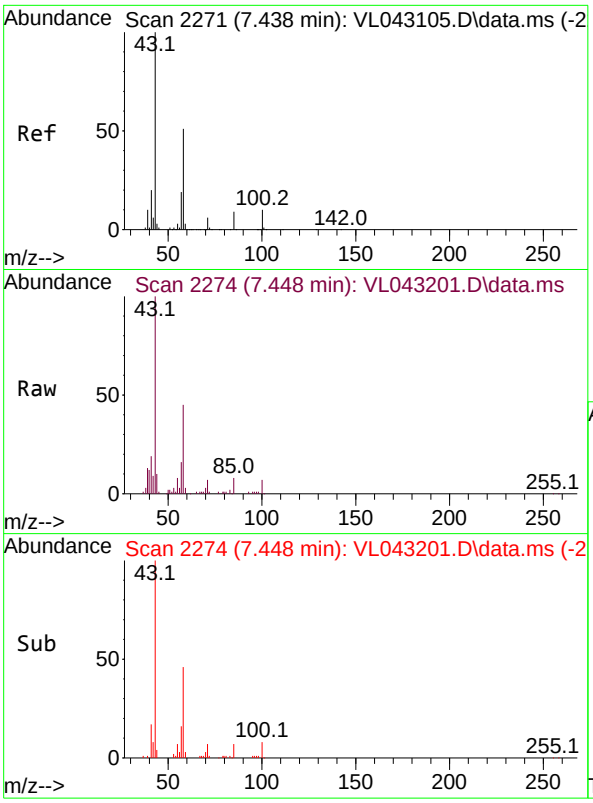


#50
4-Methyl-2-Pentanone
Concen: 5.303 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 43 Resp: 196948

Ion	Ratio	Lower	Upper
43	100		
58	34.6	29.1	43.7

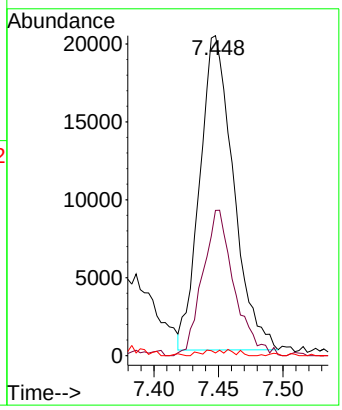




#51
2-Hexanone
Concen: 1.312 ppbv
RT: 7.448 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 43 Resp: 3653

Ion	Ratio	Lower	Upper
43	100		
58	43.7	40.4	60.6
98	1.7	0.1	0.1



Instrument :
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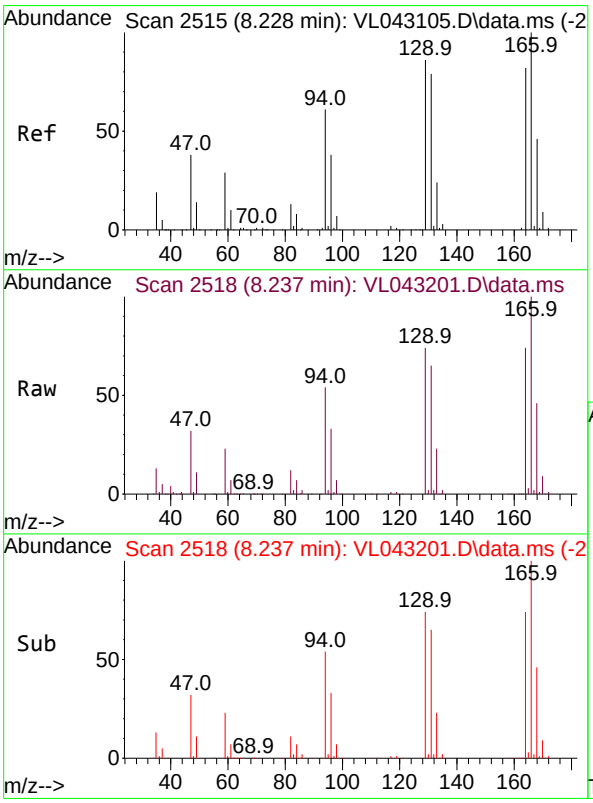
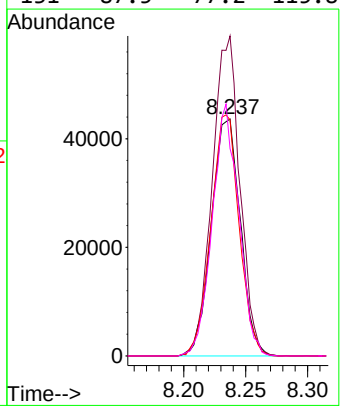
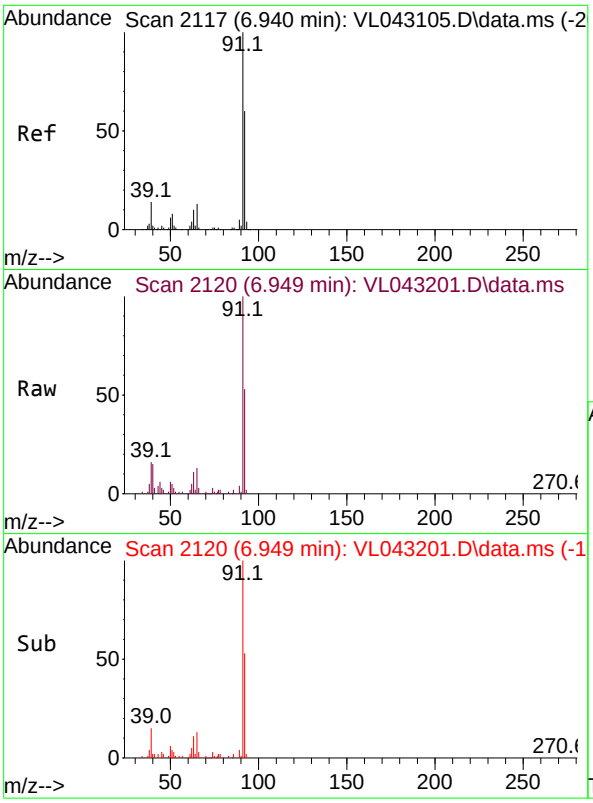


#52
Tetrachloroethene
Concen: 5.213 ppbv
RT: 8.237 min Scan# 2518
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:164 Resp: 70881

Ion	Ratio	Lower	Upper
164	100		
166	135.1	97.6	146.4
129	99.6	84.5	126.7
131	87.5	77.2	115.8

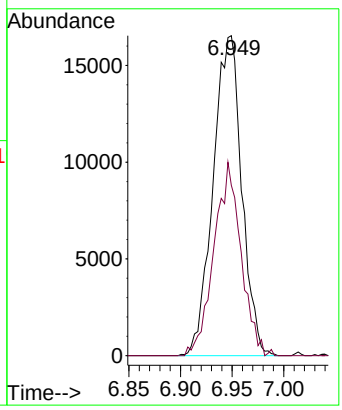




#53
Toluene
Concen: 0.714 ppbv
RT: 6.949 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 91 Resp: 3193

Ion	Ratio	Lower	Upper
91	100		
92	56.9	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

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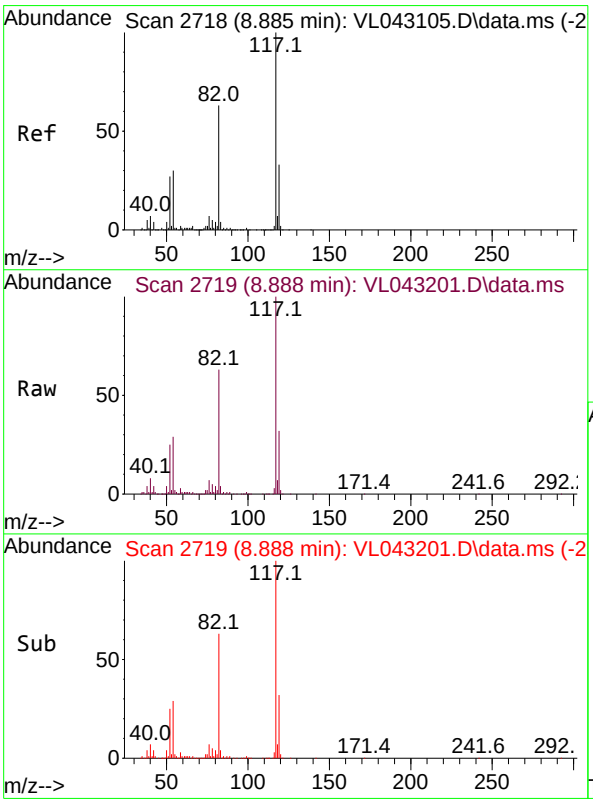
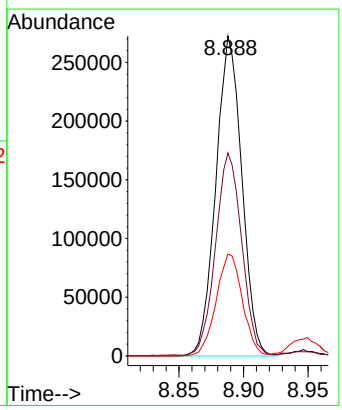
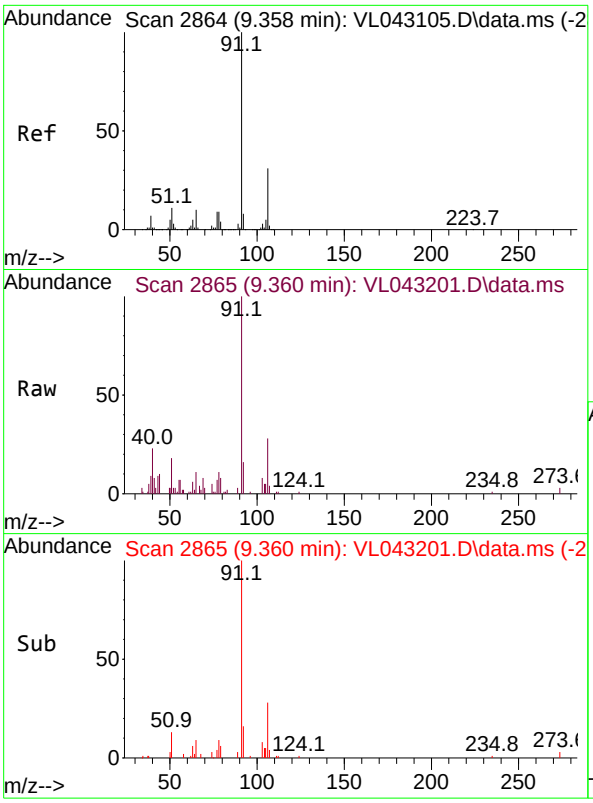


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:117 Resp: 381448

Ion	Ratio	Lower	Upper
117	100		
82	64.5	53.8	80.8
119	32.4	25.4	38.0





#58
Ethyl Benzene
Concen: 0.149 ppbv
RT: 9.360 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

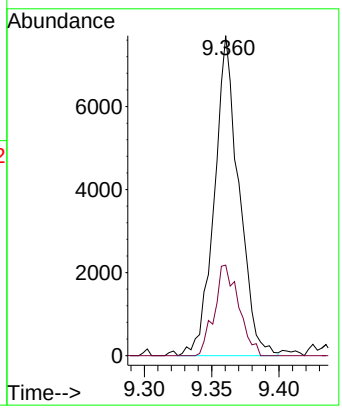
Tgt Ion: 91 Resp: 978

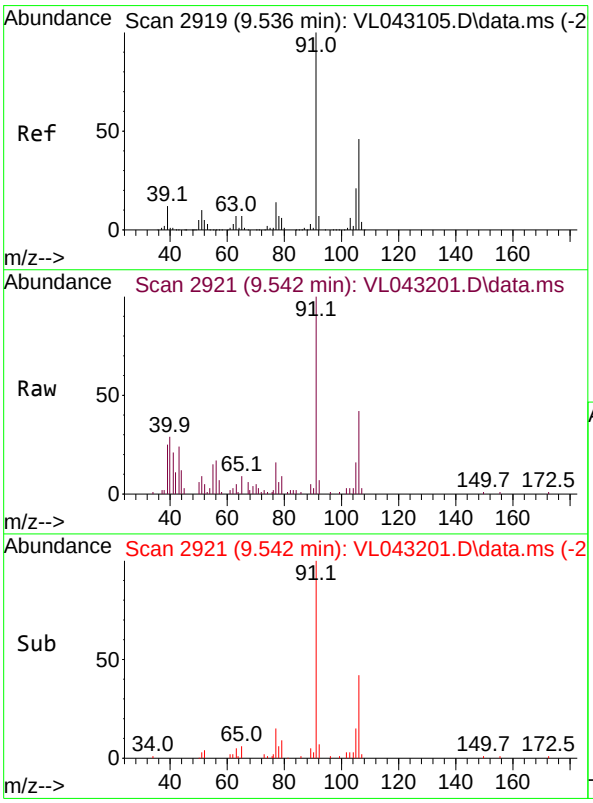
Ion	Ratio	Lower	Upper
91	100		
106	28.3	24.8	37.2

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

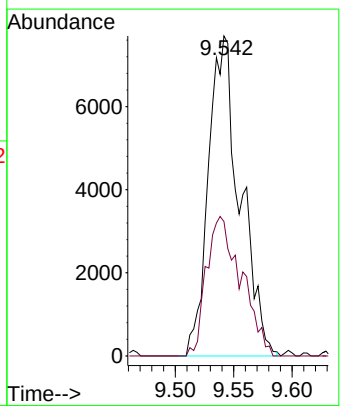


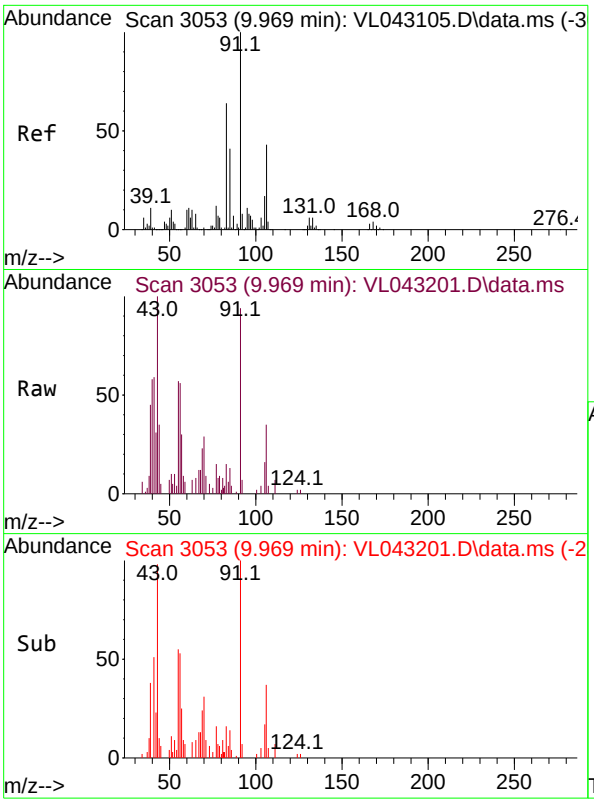


#59
m/p-Xylene
Concen: 0.277 ppbv m
RT: 9.542 min Scan# 2921
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 91 Resp: 14489

Ion	Ratio	Lower	Upper
91	100		
106	48.0	38.0	57.0

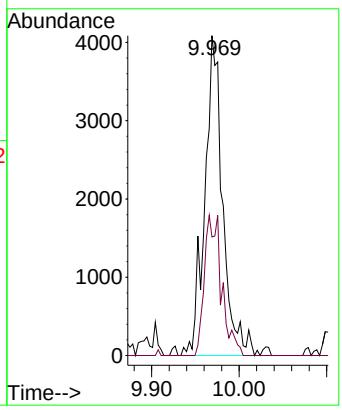




#60
o-Xylene
Concen: 0.114 ppbv m
RT: 9.969 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 91 Resp: 587

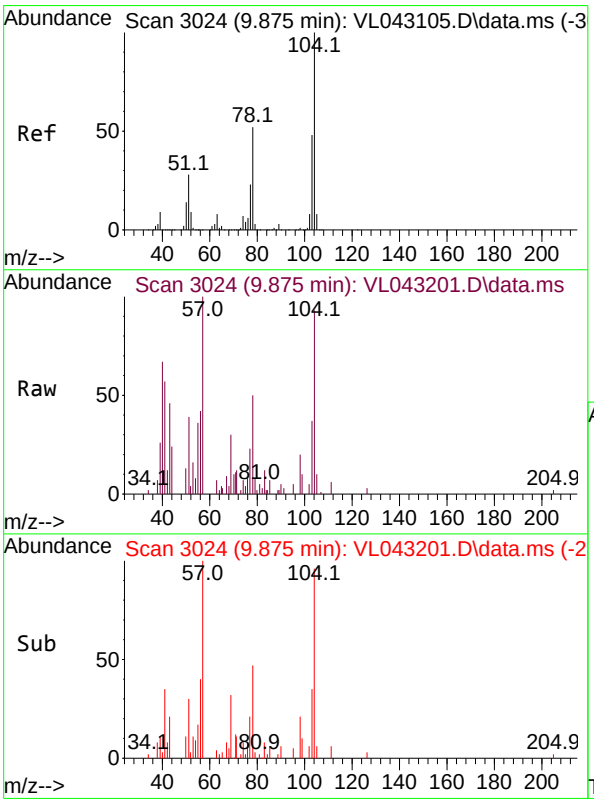
Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.9	65.8



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Manual Integrations
APPROVED

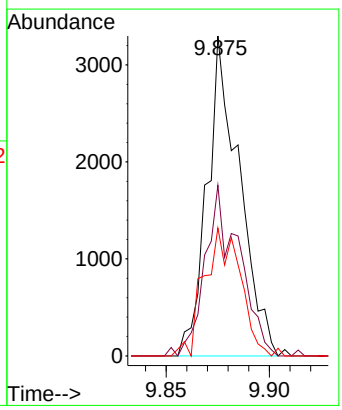
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

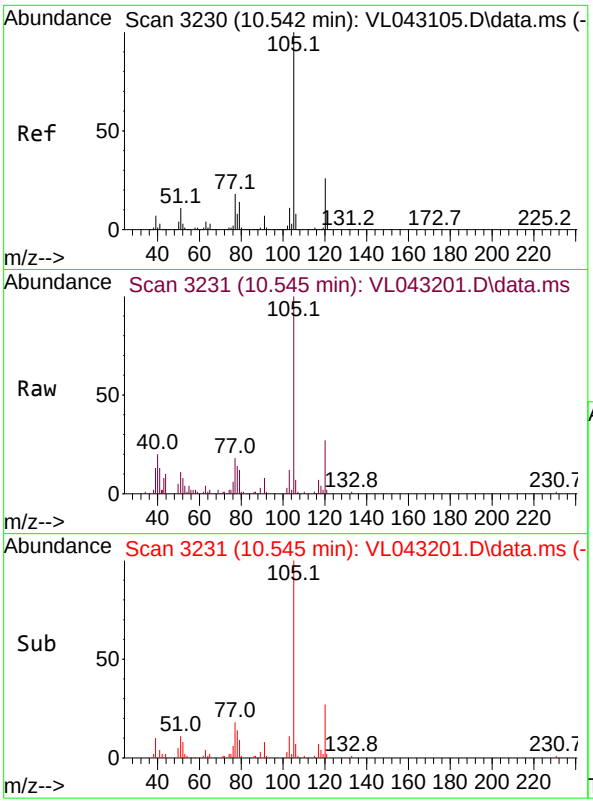


#61
Styrene
Concen: 0.154 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:104 Resp: 3586

Ion	Ratio	Lower	Upper
104	100		
78	56.5	40.2	60.2
103	45.0	36.9	55.3

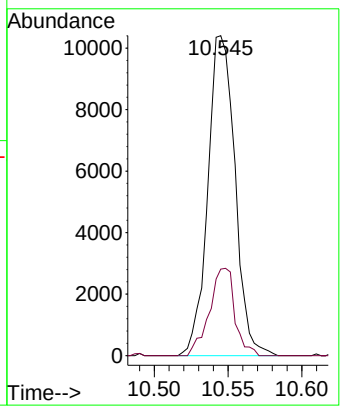




#62
Isopropylbenzene
Concen: 0.143 ppbv
RT: 10.545 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:105 Resp: 1336

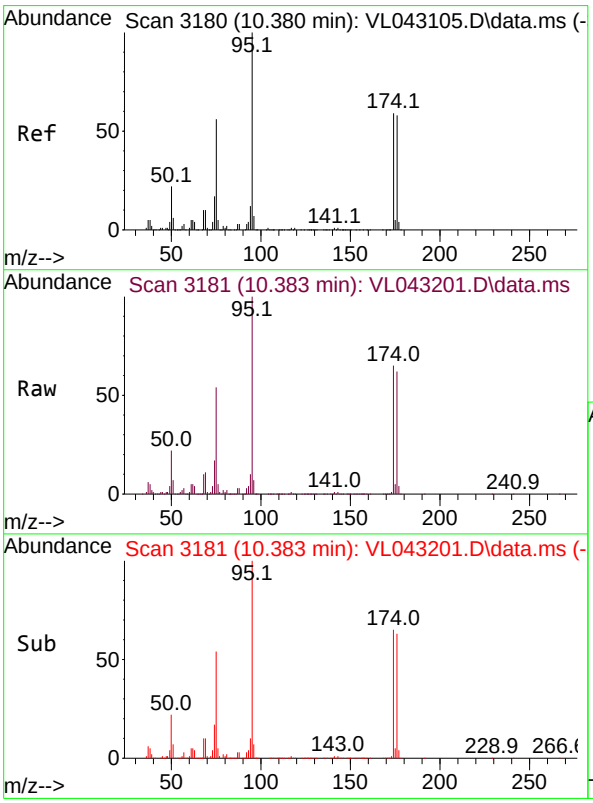
Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.2	30.4



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Manual Integrations
APPROVED

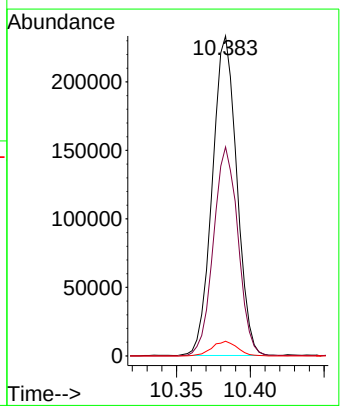
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

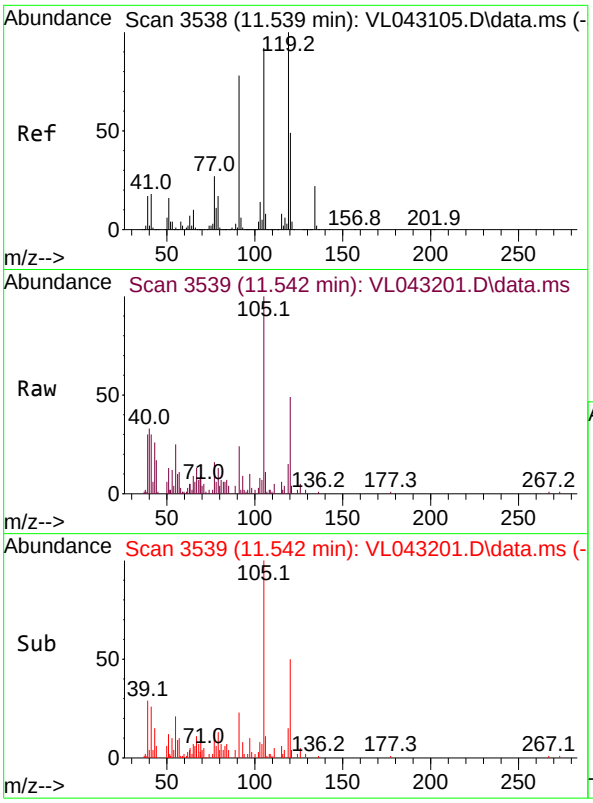


#68
1-Bromo-4-Fluorobenzene
Concen: 9.066 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 95 Resp: 268804

Ion	Ratio	Lower	Upper
95	100		
174	66.1	48.3	72.5
175	4.8	3.8	5.8

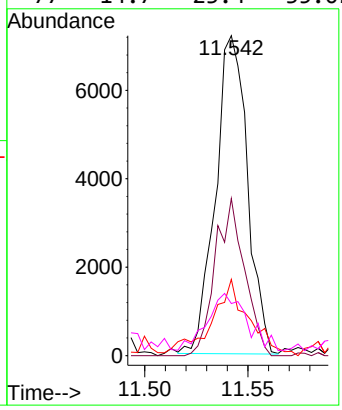




#74
1,2,4-Trimethylbenzene
Concen: 0.133 ppbv
RT: 11.542 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:105 Resp: 776

Ion	Ratio	Lower	Upper
105	100		
120	53.6	42.8	64.2
91	21.8	68.3	102.5#
77	14.7	23.4	35.0#



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-7-SS-1DL	SDG No.:	Q3627
Lab Sample ID:	Q3627-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	5.44	UD	10	5.44	24.7	11/13/25 14:47	VL111325
74-87-3	Chloromethane	0.98	2.02	UD	10	2.02	10.3	11/13/25 14:47	VL111325
75-01-4	Vinyl Chloride	0.25	0.64	UD	10	0.64	0.77	11/13/25 14:47	VL111325
74-83-9	Bromomethane	0.77	2.99	UD	10	2.99	19.4	11/13/25 14:47	VL111325
75-00-3	Chloroethane	1.50	3.96	UD	10	3.96	13.2	11/13/25 14:47	VL111325
109-99-9	Tetrahydrofuran	0.80	2.36	UD	10	2.36	14.8	11/13/25 14:47	VL111325
75-69-4	Trichlorofluoromethane	1.70	9.55	UD	10	9.55	28.1	11/13/25 14:47	VL111325
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	10.7	UD	10	10.7	38.3	11/13/25 14:47	VL111325
76-14-2	Dichlorotetrafluoroethane	1.50	10.5	UD	10	10.5	35.0	11/13/25 14:47	VL111325
75-65-0	tert-Butyl alcohol	1.80	5.46	JD	10	4.85	15.2	11/13/25 14:47	VL111325
142-82-5	Heptane	1.70	6.97	UD	10	6.97	20.5	11/13/25 14:47	VL111325
75-35-4	1,1-Dichloroethene	1.50	5.95	UD	10	5.95	19.8	11/13/25 14:47	VL111325
67-64-1	Acetone	47.3	112	D	10	4.28	11.9	11/13/25 14:47	VL111325
75-15-0	Carbon Disulfide	0.80	2.49	UD	10	2.49	15.6	11/13/25 14:47	VL111325
1634-04-4	Methyl tert-Butyl Ether	2.30	8.29	UD	10	8.29	18.0	11/13/25 14:47	VL111325
75-09-2	Methylene Chloride	3.10	10.8	JD	10	7.99	17.4	11/13/25 14:47	VL111325
156-60-5	trans-1,2-Dichloroethene	1.20	4.76	UD	10	4.76	19.8	11/13/25 14:47	VL111325
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	10	5.26	20.2	11/13/25 14:47	VL111325
110-82-7	Cyclohexane	2.20	7.57	UD	10	7.57	17.2	11/13/25 14:47	VL111325
78-93-3	2-Butanone	14.1	41.6	D	10	1.65	14.8	11/13/25 14:47	VL111325
56-23-5	Carbon Tetrachloride	0.35	2.20	D	10	1.57	1.89	11/13/25 14:47	VL111325
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	10	3.93	19.8	11/13/25 14:47	VL111325
67-66-3	Chloroform	0.96	4.69	UD	10	4.69	24.4	11/13/25 14:47	VL111325
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	10	0.87	1.64	11/13/25 14:47	VL111325
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	10	6.54	23.4	11/13/25 14:47	VL111325
71-43-2	Benzene	1.70	5.43	JD	10	2.52	16.0	11/13/25 14:47	VL111325
107-06-2	1,2-Dichloroethane	0.93	3.76	UD	10	3.76	20.2	11/13/25 14:47	VL111325
79-01-6	Trichloroethene	0.32	1.72	D	10	1.29	1.61	11/13/25 14:47	VL111325
78-87-5	1,2-Dichloropropane	1.30	6.01	UD	10	6.01	23.1	11/13/25 14:47	VL111325
75-27-4	Bromodichloromethane	0.63	4.22	UD	10	4.22	33.5	11/13/25 14:47	VL111325
108-10-1	4-Methyl-2-Pentanone	7.80	32.0	D	10	3.98	20.5	11/13/25 14:47	VL111325
108-88-3	Toluene	1.60	6.03	UD	10	6.03	18.8	11/13/25 14:47	VL111325
10061-02-6	t-1,3-Dichloropropene	1.50	6.81	UD	10	6.81	22.7	11/13/25 14:47	VL111325
10061-01-5	cis-1,3-Dichloropropene	1.10	4.99	UD	10	4.99	22.7	11/13/25 14:47	VL111325
79-00-5	1,1,2-Trichloroethane	0.81	4.42	UD	10	4.42	27.3	11/13/25 14:47	VL111325
124-48-1	Dibromochloromethane	0.85	7.24	UD	10	7.24	42.6	11/13/25 14:47	VL111325
106-93-4	1,2-Dibromoethane	0.85	6.53	UD	10	6.53	7.69	11/13/25 14:47	VL111325
127-18-4	Tetrachloroethene	9.20	62.4	D	10	1.02	2.03	11/13/25 14:47	VL111325
108-90-7	Chlorobenzene	0.77	3.55	UD	10	3.55	23.0	11/13/25 14:47	VL111325
100-41-4	Ethyl Benzene	1.90	8.25	UD	10	8.25	21.7	11/13/25 14:47	VL111325
179601-23-1	m/p-Xylene	4.10	17.8	UD	10	17.8	43.4	11/13/25 14:47	VL111325
95-47-6	o-Xylene	2.10	9.12	UD	10	9.12	21.7	11/13/25 14:47	VL111325
100-42-5	Styrene	1.60	6.81	UD	10	6.81	21.3	11/13/25 14:47	VL111325
75-25-2	Bromoform	0.48	4.96	UD	10	4.96	51.7	11/13/25 14:47	VL111325
79-34-5	1,1,2,2-Tetrachloroethane	0.18	1.24	UD	10	1.24	2.06	11/13/25 14:47	VL111325
95-49-8	2-Chlorotoluene	1.70	8.80	UD	10	8.80	25.9	11/13/25 14:47	VL111325

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	11/12/25
Project:	Ashley	Date Received:	11/12/25
Client Sample ID:	UNIT-7-SS-1DL	SDG No.:	Q3627
Lab Sample ID:	Q3627-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3		Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6		11/13/25 14:47	VL111325
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6		11/13/25 14:47	VL111325
541-73-1	1,3-Dichlorobenzene	0.54	3.25	UD	10	3.25	30.1		11/13/25 14:47	VL111325
106-46-7	1,4-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1		11/13/25 14:47	VL111325
95-50-1	1,2-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1		11/13/25 14:47	VL111325
120-82-1	1,2,4-Trichlorobenzene	2.10	15.6	UD	10	15.6	37.1		11/13/25 14:47	VL111325
87-68-3	Hexachloro-1,3-Butadiene	1.30	13.9	UD	10	13.9	53.3		11/13/25 14:47	VL111325
106-99-0	1,3-Butadiene	0.51	1.13	UD	10	1.13	11.1		11/13/25 14:47	VL111325
91-20-3	Naphthalene	0.13	0.68	UD	10	0.68	5.24		11/13/25 14:47	VL111325
622-96-8	4-Ethyltoluene	2.10	10.3	UD	10	10.3	24.6		11/13/25 14:47	VL111325
110-54-3	Hexane	1.60	5.64	UD	10	5.64	17.6		11/13/25 14:47	VL111325
107-05-1	Allyl Chloride	1.10	3.44	UD	10	3.44	15.7		11/13/25 14:47	VL111325
123-91-1	1,4-Dioxane	2.20	7.93	UD	10	7.93	18.0		11/13/25 14:47	VL111325
80-62-6	Methyl Methacrylate	1.40	5.73	UD	10	5.73	20.5		11/13/25 14:47	VL111325
SURROGATES										
460-00-4	1-Bromo-4-Fluorobenzene	8.80				70 (65) - 130	88%	SPK: 10		
INTERNAL STANDARDS		**Area Count**								
74-97-5	Bromochloromethane	141000								
540-36-3	1,4-Difluorobenzene	374000								
3114-55-4	Chlorobenzene-d5	344000								

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\VL111325\
Data File : VL043199.D
Acq On : 13 Nov 2025 14:47
Operator : SY/MD
Sample : Q3627-05DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:40:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	140657	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	374439	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	343535	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	234436	8.780	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 87.800%				
Target Compounds							Qvalue
9) Propene	1.486	41	8148	0.849	ppbv		98
13) Ethanol	1.725	45	139693	39.357	ppbv		97
15) Acetone	1.839	43	89656	4.729	ppbv		93
17) tert-Butyl alcohol	2.049	59	4553	0.175	ppbv		99
19) Isopropyl Alcohol	1.890	45	190045	16.095	ppbv	#	38
20) Methylene Chloride	2.065	84	2288	0.305	ppbv	#	72
26) Hexane	2.832	57	2858	0.132	ppbv	#	59
34) 2-Butanone	2.567	43	35547	1.412	ppbv		98
35) Carbon Tetrachloride	3.774	117	932m	0.035	ppbv		
36) Benzene	3.667	78	5825	0.165	ppbv	#	82
38) Trichloroethene	4.561	130	471m	0.032	ppbv		
50) 4-Methyl-2-Pentanone	5.781	43	26967m	0.776	ppbv		
51) 2-Hexanone	7.457	43	5076m	0.195	ppbv		
52) Tetrachloroethene	8.231	164	11745	0.924	ppbv		94
53) Toluene	6.949	91	5012m	0.120	ppbv		

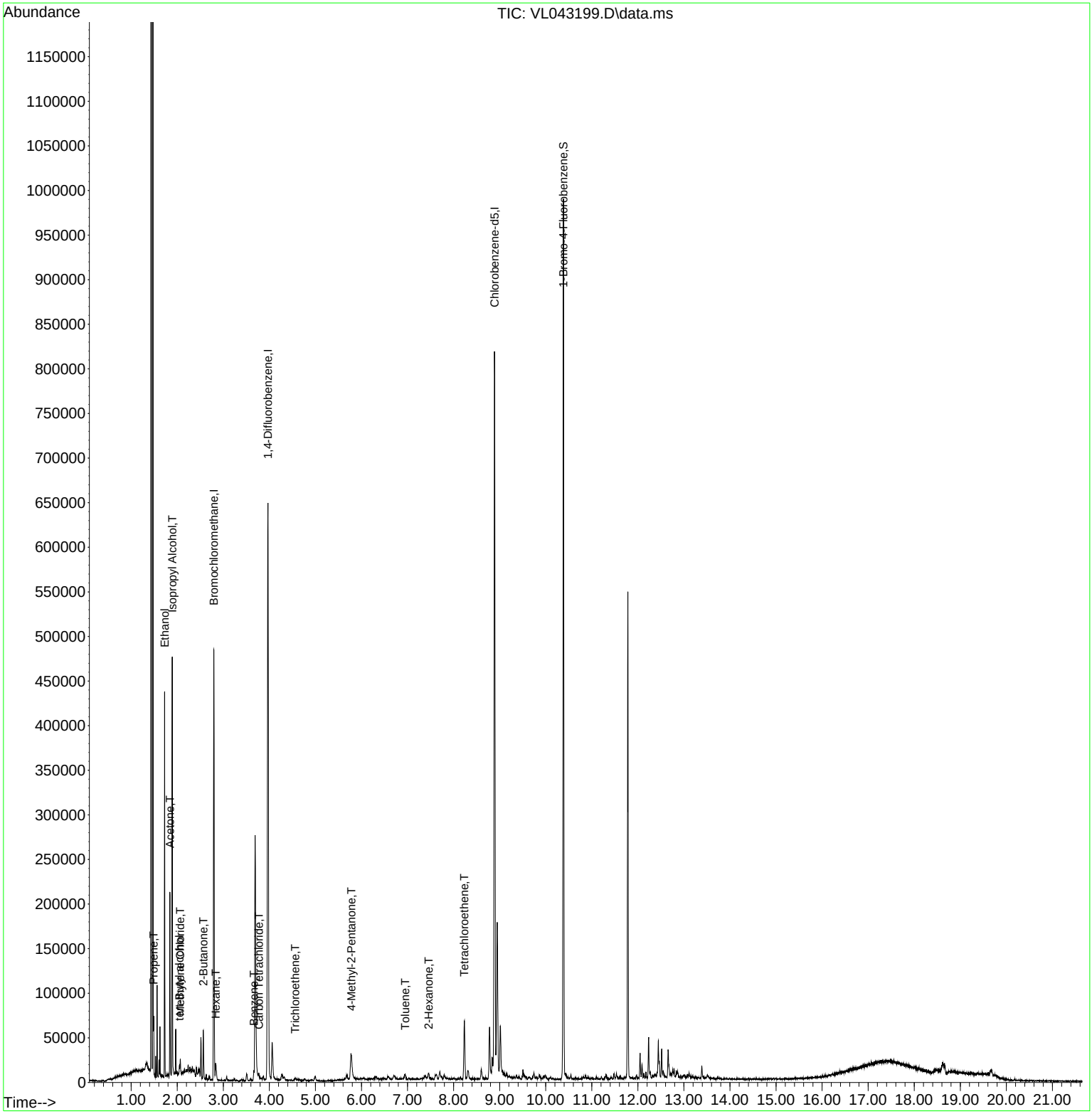
(#) = qualifier out of range (m) = manual integration (+) = signals summed

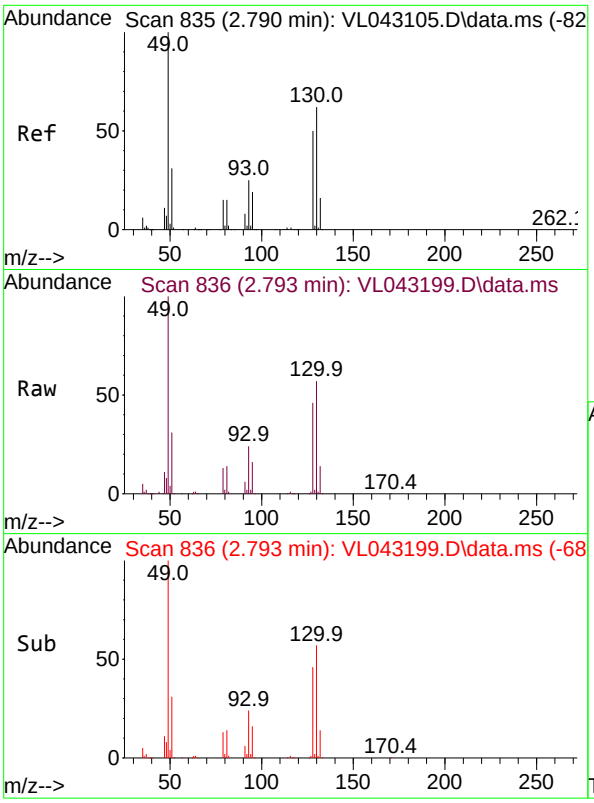
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043199.D
Acq On : 13 Nov 2025 14:47
Operator : SY/MD
Sample : Q3627-05DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:40:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

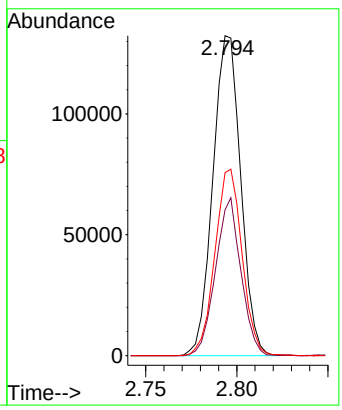




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 49 Resp: 14065

Ion	Ratio	Lower	Upper
49	100		
128	45.0	24.4	73.4
130	57.0	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
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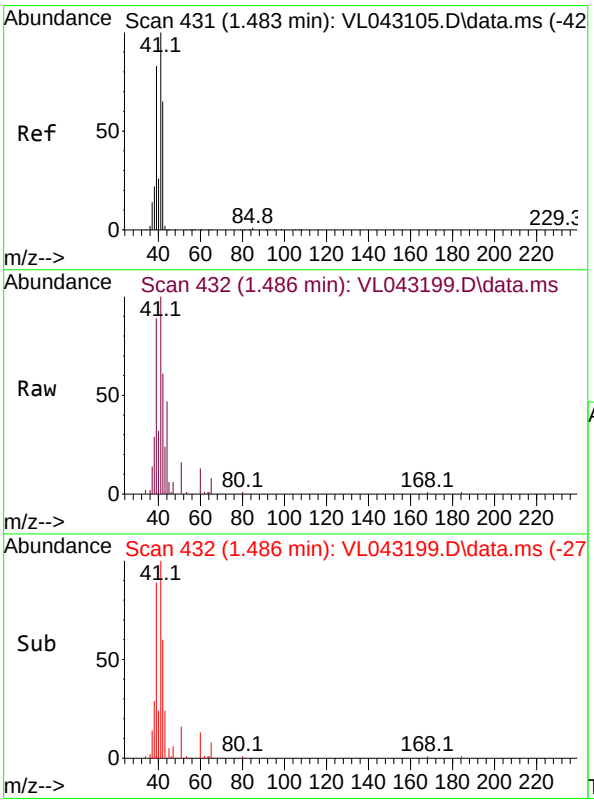
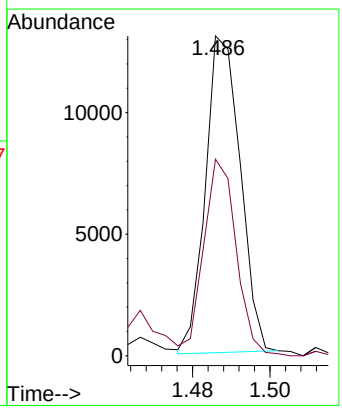
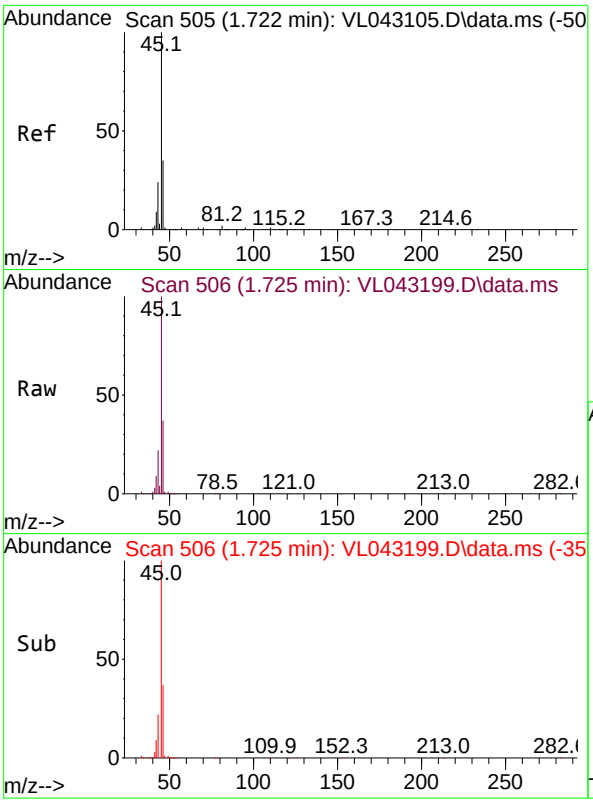


#9
Propene
Concen: 0.849 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 41 Resp: 8148

Ion	Ratio	Lower	Upper
41	100		
42	70.7	55.1	82.7





#13
Ethanol
Concen: 39.357 ppbv
RT: 1.725 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 45 Resp: 13969

Ion	Ratio	Lower	Upper
45	100		
46	38.4	14.7	58.9

Instrument :
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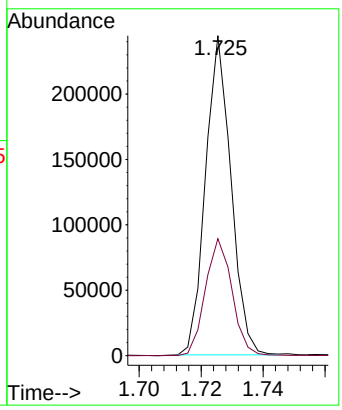
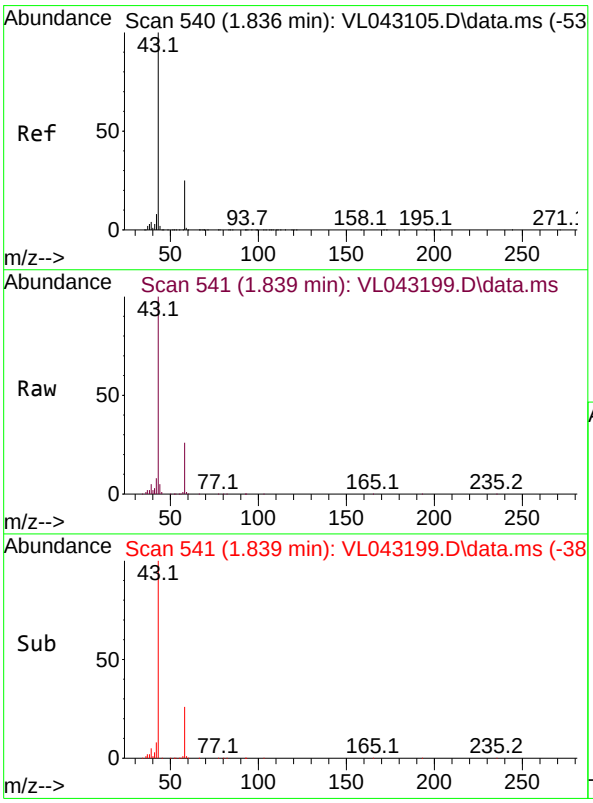
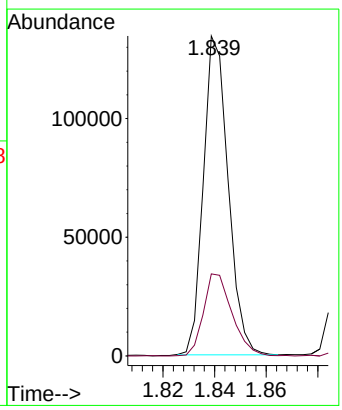


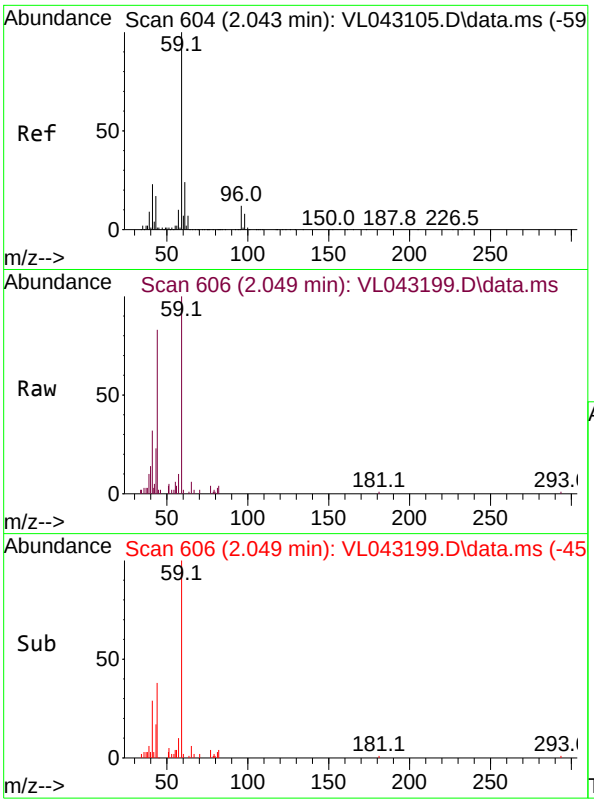


#15
Acetone
Concen: 4.729 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 43 Resp: 89656

Ion	Ratio	Lower	Upper
43	100		
58	29.6	20.8	31.2

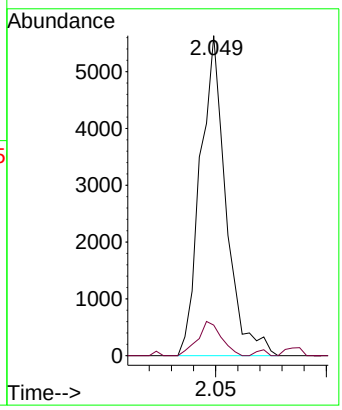




#17
tert-Butyl alcohol
Concen: 0.175 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 59 Resp: 455

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.2	12.4



Instrument :
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ClientSampleId :
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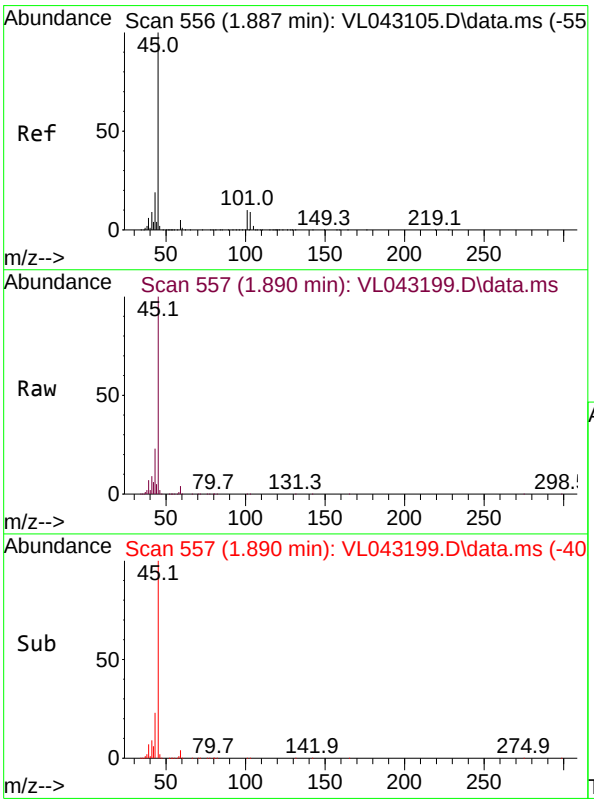
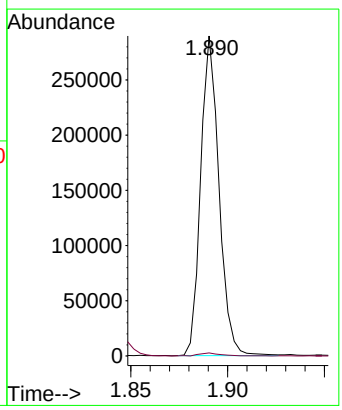
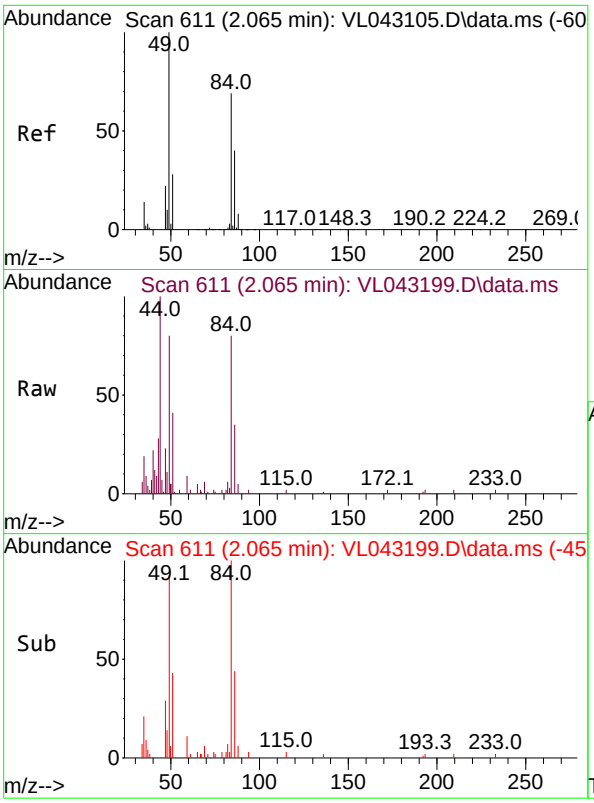


#19
Isopropyl Alcohol
Concen: 16.095 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 45 Resp: 190045

Ion	Ratio	Lower	Upper
45	100		
58	1.1	31.3	46.9#

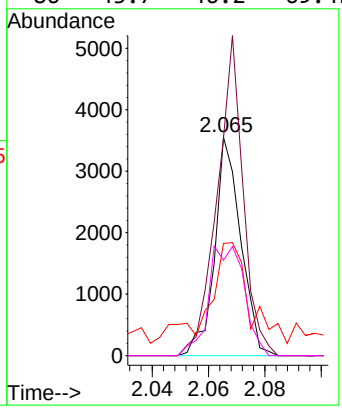




#20
Methylene Chloride
Concen: 0.305 ppbv
RT: 2.065 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 84 Resp: 228

Ion	Ratio	Lower	Upper
84	100		
49	99.4	116.6	175.0#
51	37.0	34.8	52.2
86	43.7	46.2	69.4#



Instrument :
MSVOA_L
ClientSampleId :
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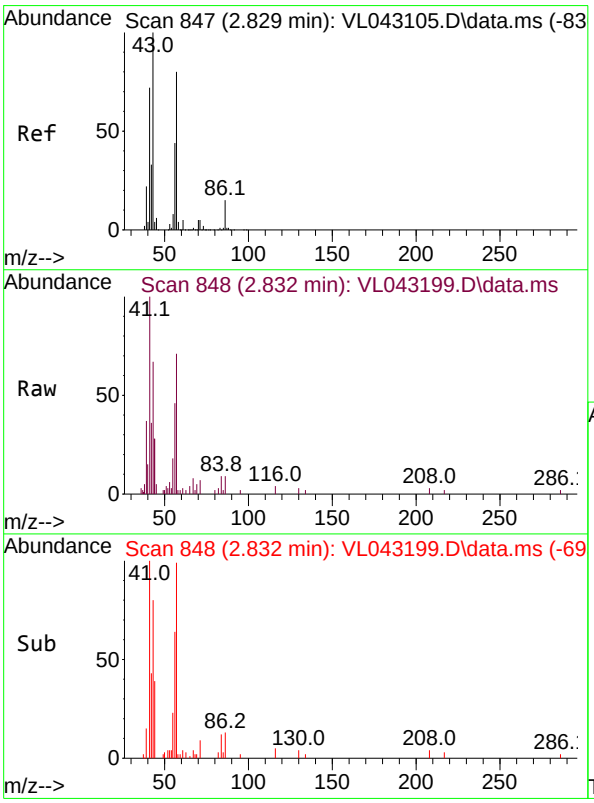
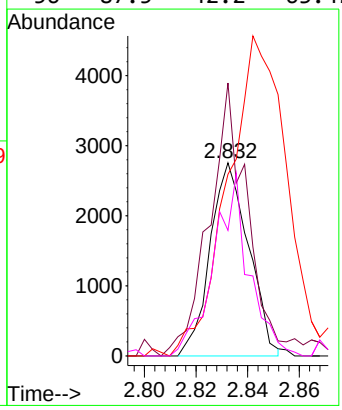
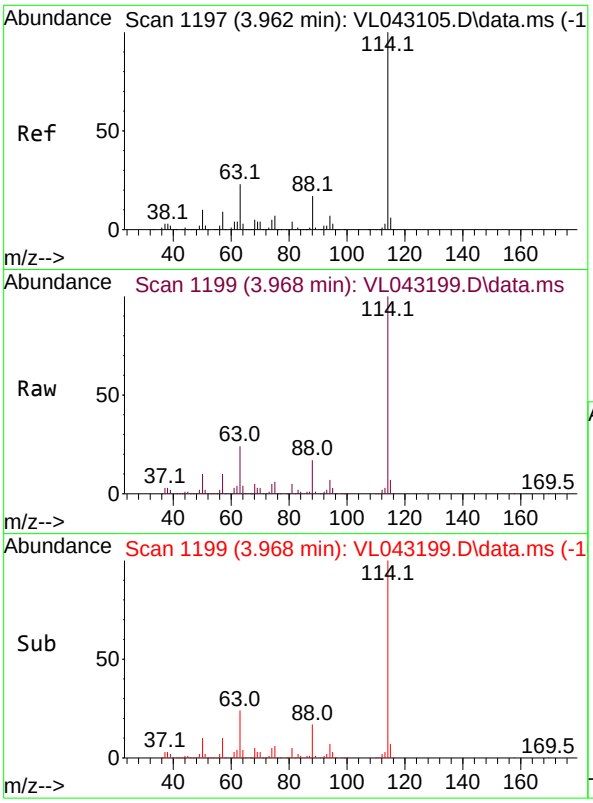


#26
Hexane
Concen: 0.132 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 57 Resp: 2858

Ion	Ratio	Lower	Upper
57	100		
41	154.4	71.4	107.0#
43	268.3	178.5	267.7#
56	87.5	42.2	63.4#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion:114 Resp: 374439

Ion	Ratio	Lower	Upper
114	100		
63	25.6	19.3	28.9
88	17.7	13.9	20.9

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

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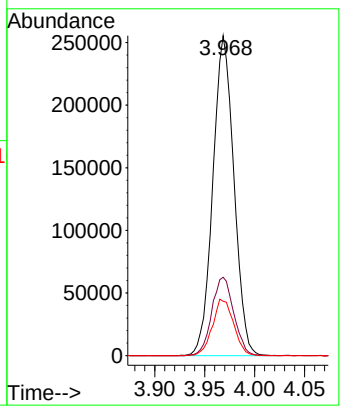
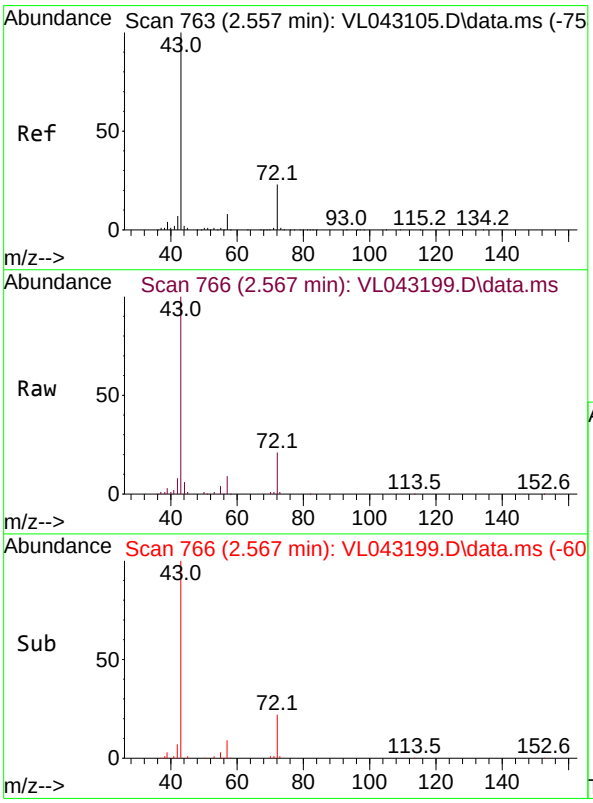
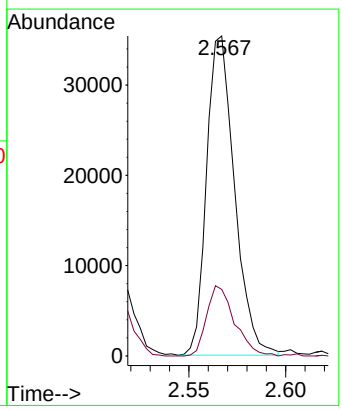


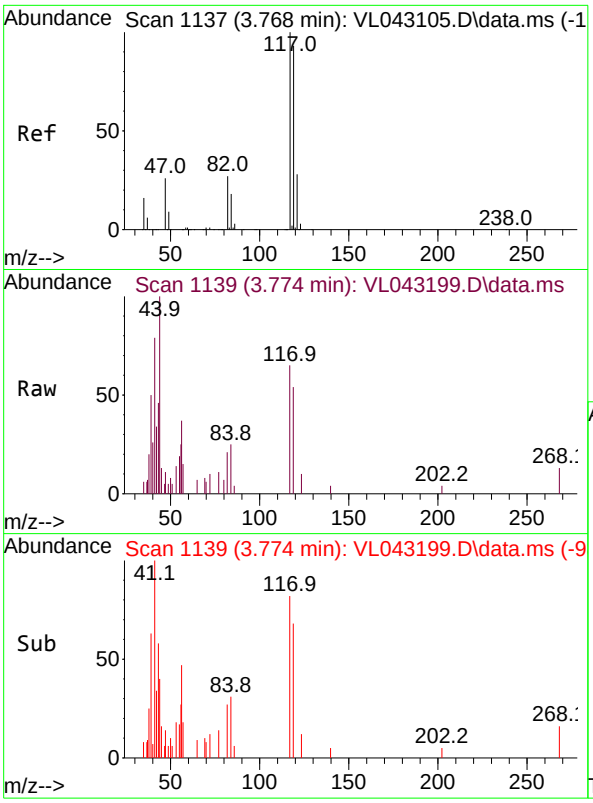


#34
2-Butanone
Concen: 1.412 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 43 Resp: 35547

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.4	27.6

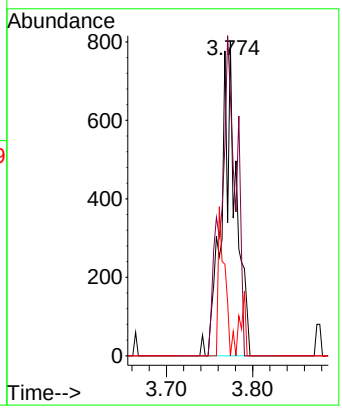




#35
Carbon Tetrachloride
Concen: 0.035 ppbv m
RT: 3.774 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion:117 Resp: 93

Ion	Ratio	Lower	Upper
117	100		
119	83.0	74.1	111.1
121	0.0	22.2	33.2#



Instrument :
MSVOA_L
ClientSampleId :
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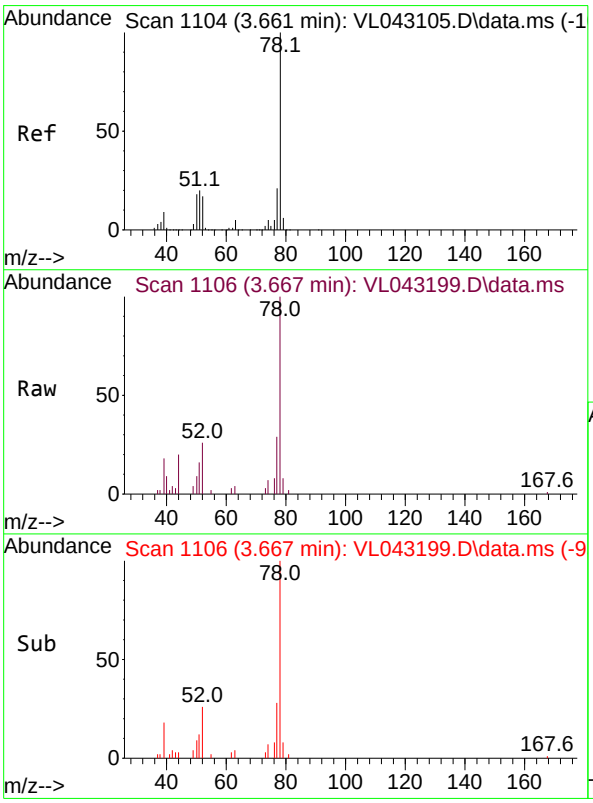
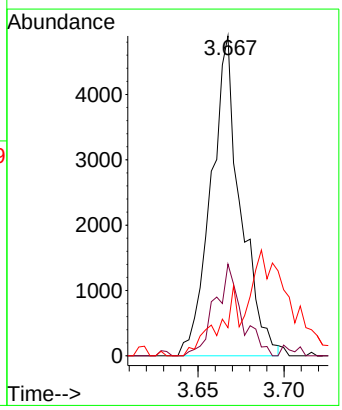
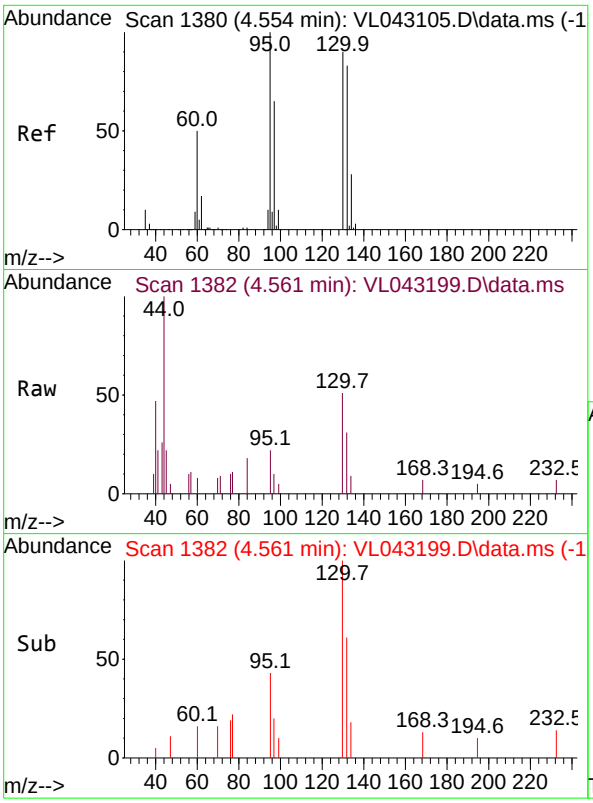


#36
Benzene
Concen: 0.165 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 78 Resp: 5825

Ion	Ratio	Lower	Upper
78	100		
77	28.7	17.0	25.6#
50	8.8	14.6	22.0#

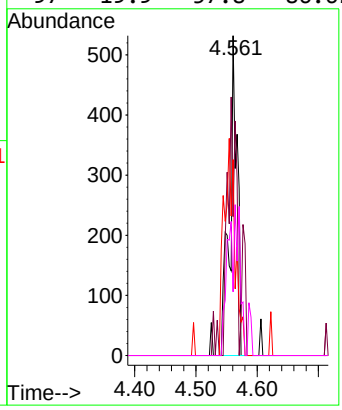




#38
Trichloroethene
Concen: 0.032 ppbv m
RT: 4.561 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion:130 Resp: 47

Ion	Ratio	Lower	Upper
130	100		
95	43.4	88.6	133.0#
132	61.3	73.4	110.0#
97	19.9	57.8	86.6#



Instrument :
MSVOA_L
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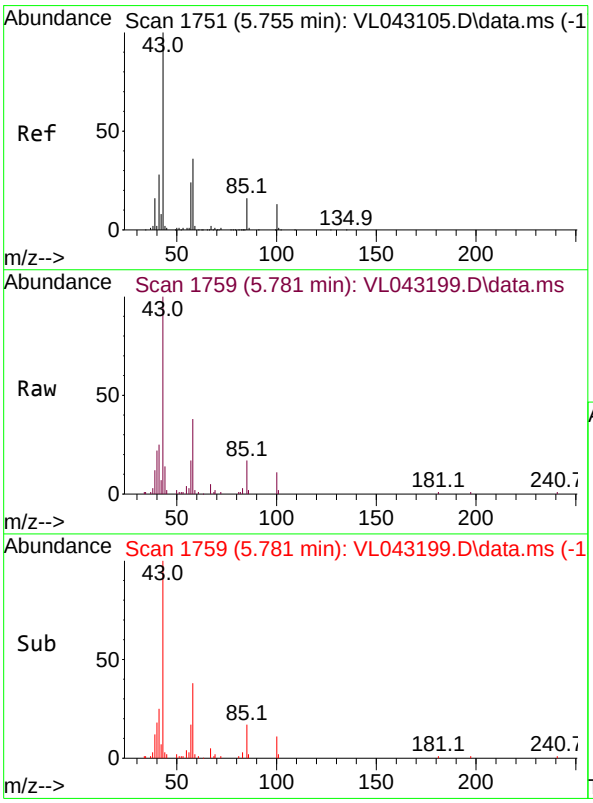
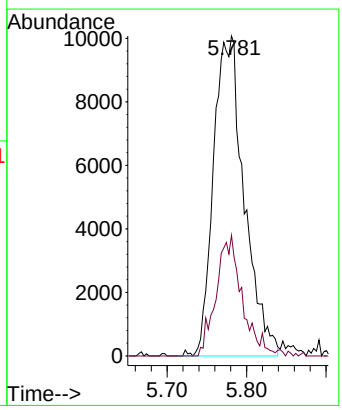
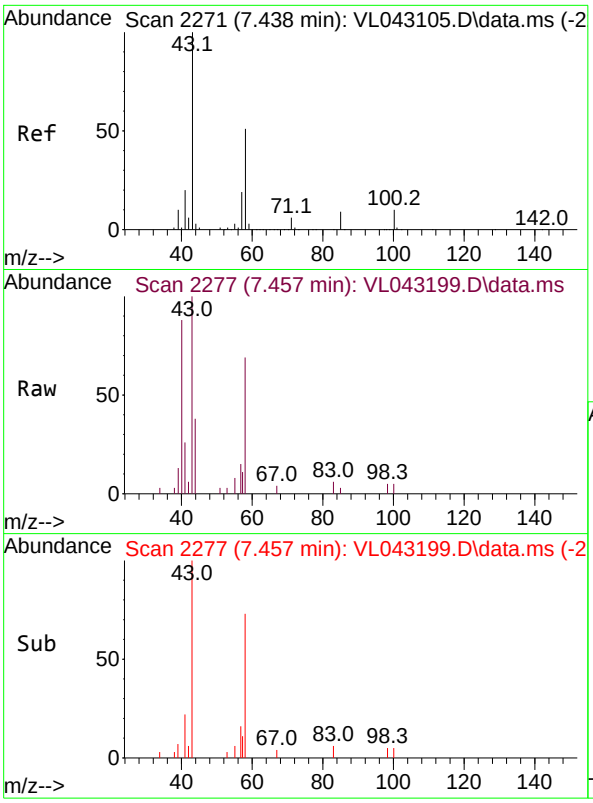


#50
4-Methyl-2-Pentanone
Concen: 0.776 ppbv m
RT: 5.781 min Scan# 1759
Delta R.T. 0.026 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 43 Resp: 26967

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7#

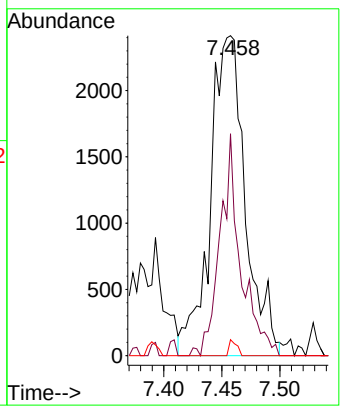




#51
2-Hexanone
Concen: 0.195 ppbv m
RT: 7.457 min Scan# 2
Delta R.T. 0.019 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 43 Resp: 507

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.4	60.6#
98	0.0	0.1	0.1#



Instrument :
MSVOA_L
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UNIT-7-SS-1DL

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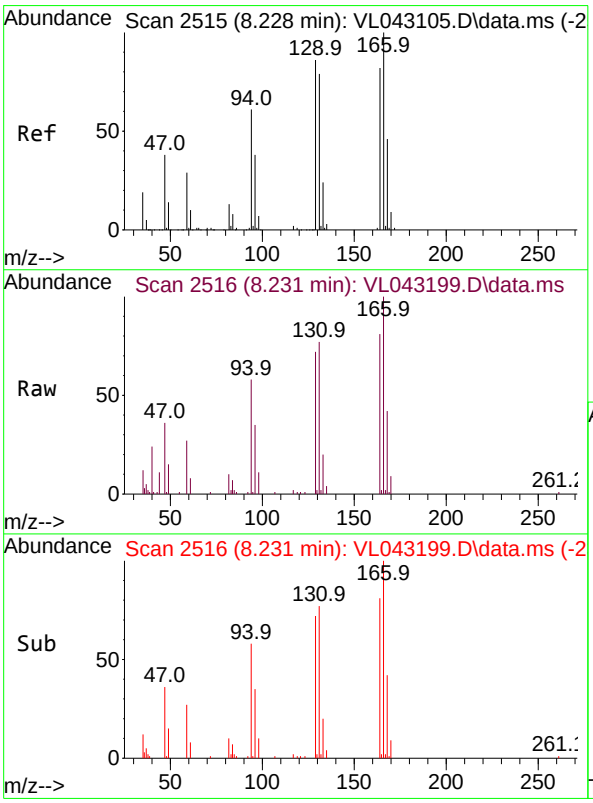
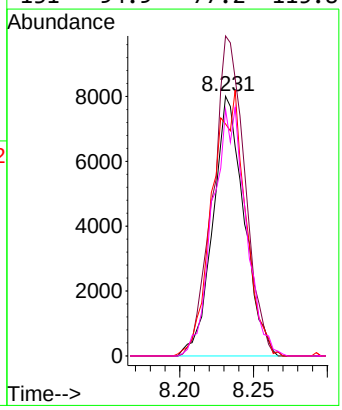
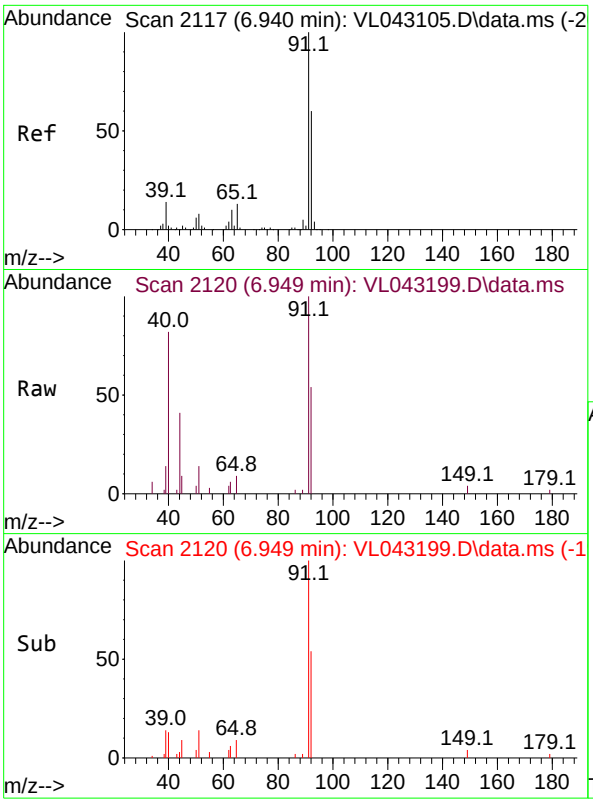


#52
Tetrachloroethene
Concen: 0.924 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion:164 Resp: 11745

Ion	Ratio	Lower	Upper
164	100		
166	123.3	97.6	146.4
129	90.5	84.5	126.7
131	94.9	77.2	115.8

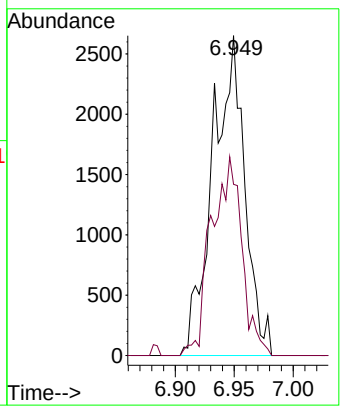




#53
Toluene
Concen: 0.120 ppbv m
RT: 6.949 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 91 Resp: 501

Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

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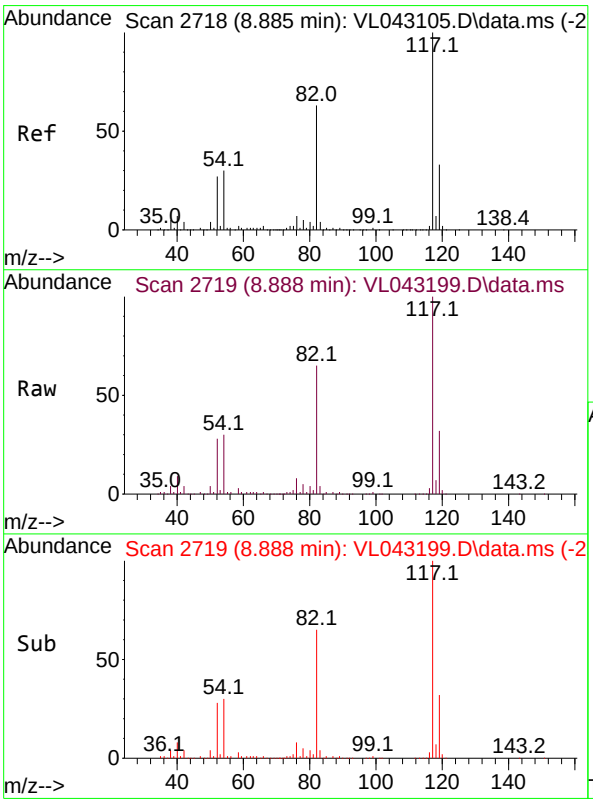
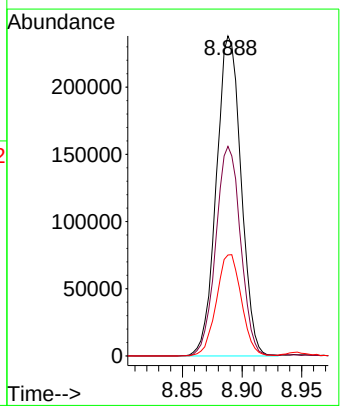
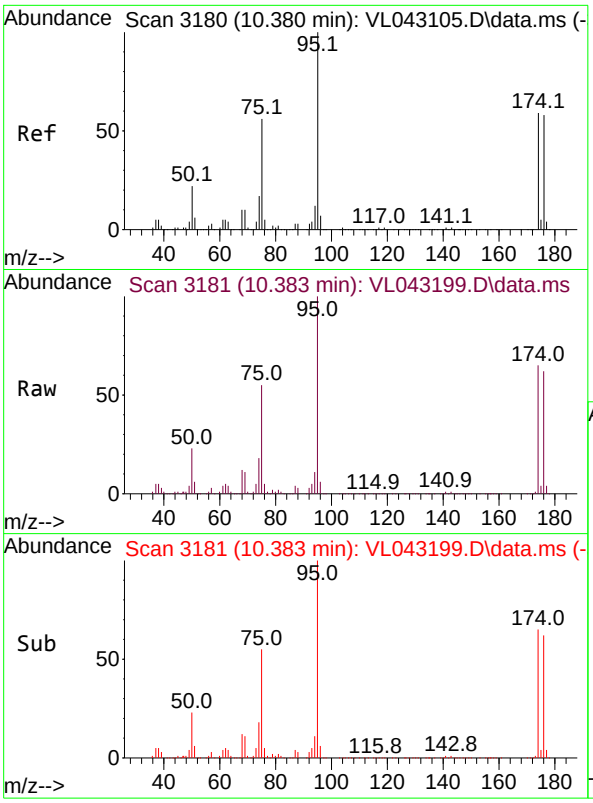


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion:117 Resp: 343535

Ion	Ratio	Lower	Upper
117	100		
82	66.0	53.8	80.8
119	32.0	25.4	38.0

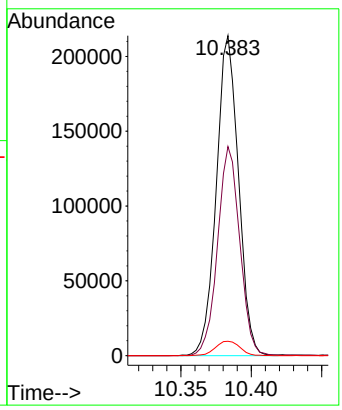




#68
1-Bromo-4-Fluorobenzene
Concen: 8.780 ppbv
RT: 10.383 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 95 Resp: 23443

Ion	Ratio	Lower	Upper
95	100		
174	65.7	48.3	72.5
175	4.9	3.8	5.8



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

CALIBRATION SUMMARY

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL101425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Oct 15 02:12:58 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL043110.D 0.1 =VL043109.D 0.5 =VL043108.D 1 =VL043107.D 2 =VL043106.D 10 =VL043105.D 15 =VL043111.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.545	1.527	1.481	1.278	1.278	1.422	9.38
3)		Chlorodifluoro...			1.672	1.632	1.577	1.451	1.359	1.538	8.46
4)		Chloromethane			0.640	0.621	0.579	0.500	0.477	0.563	12.89
5)	T	Vinyl Chloride	0.723	0.554	0.562	0.557	0.528	0.481	0.462	0.552	15.33
6)	T	Bromomethane			0.336	0.338	0.317	0.260	0.263	0.303	12.78
7)		Chloroethane			0.261	0.256	0.238	0.192	0.183	0.226	16.03
8)	T	Dichlorotetraf...			1.175	1.265	1.230	1.040	1.036	1.149	9.26
9)	T	Propene			0.738	0.713	0.721	0.655	0.585	0.682	9.20
10)	T	Heptane			2.184	2.151	2.032	1.803	1.650	1.964	11.73
11)	T	Trichlorofluor...			1.510	1.459	1.477	1.242	1.265	1.391	9.11
12)	T	1,1,2-Trichlor...			1.215	1.220	1.191	0.976	0.996	1.120	10.97
13)		Ethanol			0.289	0.307	0.302	0.193	0.171	0.252	25.86
14)	T	Bromoethene			0.481	0.434	0.431	0.371	0.362	0.416	11.84
15)	T	Acetone			1.561	1.522	1.508	1.091	1.058	1.348	18.60
16)	T	1,3-Butadiene			0.780	0.700	0.649	0.552	0.531	0.642	16.07
17)		tert-Butyl alc...			2.010	2.047	1.934	1.689	1.571	1.850	11.31
18)	T	1,1-Dichloroet...			0.519	0.539	0.512	0.437	0.434	0.488	10.07
19)	T	Isopropyl Alcohol			0.971	0.958	0.870	0.725	0.674	0.839	16.03
20)	T	Methylene Chlo...			0.738	0.612	0.508	0.406	0.400	0.533	26.98
21)	T	Allyl Chloride			1.097	1.049	1.040	0.910	0.869	0.993	9.86
22)	T	trans-1,2-Dich...			0.609	0.696	0.594	0.511	0.508	0.583	13.38
23)	T	Vinyl Acetate			2.148	1.904	2.292	1.623	1.905	1.974	13.03
24)	T	1,1-Dichloroet...			1.169	1.237	1.190	1.031	1.009	1.127	8.99
25)	T	Ethyl Acetate			3.526	3.626	3.558	3.132	2.871	3.342	9.77
26)	T	Hexane			1.753	1.677	1.548	1.406	1.318	1.540	11.77
27)	T	Carbon Disulfide			1.423	1.540	1.505	1.315	1.272	1.411	8.26
28)	T	Methyl tert-Bu...			0.742	0.767	0.769	0.587	0.638	0.701	11.86
29)	T	Chloroform			2.437	2.397	2.296	2.030	1.997	2.232	9.22
30)	T	Cyclohexane			1.493	1.448	1.390	1.214	1.176	1.344	10.53
31)	T	cis-1,2-Dichlo...			1.491	1.594	1.516	1.405	1.348	1.471	6.55
32)	T	1,1,1-Trichlor...	2.165	2.605	2.407	2.439	2.424	2.136	2.092	2.324	8.31
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.753	0.708	0.707	0.606	0.587	0.672	10.68
35)	T	Carbon Tetrach...	0.752	0.761	0.710	0.743	0.745	0.649	0.674	0.719	5.96
36)	T	Benzene			0.974	0.980	1.023	0.871	0.862	0.942	7.60
37)	T	1,2-Dichloroet...			0.589	0.571	0.565	0.485	0.502	0.543	8.49
38)	T	Trichloroethene	0.460	0.421	0.401	0.402	0.398	0.342	0.330	0.393	11.38
39)	T	1,2-Dichloropr...			0.359	0.370	0.371	0.317	0.305	0.344	8.99

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL101425AIR.M

40)	T	1,4-Dioxane			0.166	0.166	0.162	0.141	0.135	0.154	9.56
41)	T	Tetrahydrofuran			0.427	0.394	0.384	0.343	0.332	0.376	10.32
42)	T	Bromodichlorom...			0.779	0.775	0.791	0.697	0.713	0.751	5.68
43)		Methyl Methacr...			0.500	0.511	0.493	0.450	0.437	0.478	6.85
44)	T	2,2,4-Trimethy...			1.695	1.706	1.683	1.460	1.401	1.589	9.22
45)	T	t-1,3-Dichloro...			0.478	0.502	0.506	0.462	0.453	0.480	4.94
46)	T	cis-1,3-Dichlo...			0.593	0.590	0.603	0.546	0.535	0.573	5.34
47)	T	1,1,2-Trichlor...			0.416	0.383	0.384	0.338	0.338	0.372	9.07
48)	T	Dibromochlorom...			0.619	0.650	0.667	0.589	0.582	0.622	5.96
49)	T	Bromoform			0.503	0.515	0.544	0.487	0.478	0.505	5.14
50)	T	4-Methyl-2-Pen...			0.969	0.989	0.974	0.873	0.833	0.928	7.55
51)	T	2-Hexanone			0.683	0.708	0.738	0.692	0.658	0.696	4.31
52)	T	Tetrachloroethene	0.354	0.345	0.349	0.366	0.353	0.312	0.298	0.340	7.27
53)	T	Toluene			1.212	1.162	1.176	1.036	1.003	1.118	8.28
54)	T	1,2-Dibromoethane		0.662	0.570	0.586	0.617	0.533	0.526	0.582	8.84
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.662	0.664	0.665	0.590	0.570	0.630	7.32
57)	T	Chlorobenzene			1.010	1.009	1.000	0.849	0.810	0.936	10.47
58)	T	Ethyl Benzene			1.801	1.815	1.824	1.599	1.543	1.716	7.84
59)	T	m/p-Xylene			1.463	1.457	1.476	1.238	1.210	1.369	9.71
60)	T	o-Xylene			1.433	1.471	1.454	1.224	1.177	1.352	10.34
61)	T	Styrene			0.597	0.649	0.664	0.578	0.564	0.610	7.17
62)		Isopropylbenzene			2.564	2.671	2.616	2.241	2.123	2.443	10.02
63)	T	1,1,2,2-Tetrac...	1.029	1.019	0.900	0.924	0.933	0.777	0.755	0.905	11.78
64)		n-propylbenzene			0.688	0.710	0.696	0.589	0.551	0.647	11.10
65)		tert-Butylbenzene			2.342	2.383	2.364	1.901	1.796	2.157	13.20
66)	T	Benzyl Chloride			0.229	0.259	0.250	0.241	0.221	0.240	6.35
67)		sec-Butylbenzene			3.313	3.378	3.357	2.697	2.565	3.062	12.96
68)	S	1-Bromo-4-Fluo...	0.765	0.780	0.768	0.770	0.779	0.781	0.798	0.777	1.44
69)		p-Isopropyltol...			2.726	2.896	2.871	2.330	2.186	2.602	12.47
70)		n-Butylbenzene			2.611	2.820	2.849	2.321	2.218	2.564	11.16
71)		2-Chlorotoluene			1.959	1.997	2.018	1.698	1.645	1.863	9.53
72)	T	4-Ethyltoluene			1.741	1.761	1.805	1.530	1.475	1.662	8.97
73)	T	1,3,5-Trimethy...			1.434	1.466	1.477	1.261	1.217	1.371	8.95
74)	T	1,2,4-Trimethy...			1.691	1.706	1.664	1.331	1.278	1.534	13.75
75)	T	1,3-Dichlorobe...			0.903	0.956	1.000	0.818	0.773	0.890	10.57
76)	T	1,4-Dichlorobe...			0.957	0.957	0.971	0.823	0.779	0.897	9.96
77)	T	1,2-Dichlorobe...			0.944	0.954	0.914	0.766	0.727	0.861	12.40
78)	T	Hexachloro-1,3...			0.751	0.764	0.746	0.555	0.516	0.667	18.08
79)	T	Naphthalene		1.265	1.532	1.766	1.971	1.580	1.507	1.604	15.04
80)	T	Naphthalene,2-...			0.255	0.355	0.515	0.478	0.485	0.418	26.20
81)	T	1,2,4-Trichlor...			0.553	0.726	0.803	0.638	0.608	0.666	14.90

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043105.D
Acq On : 14 Oct 2025 10:31
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:51:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	103971	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	341790	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	309230	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	241468	10.046	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	132845	8.987	ppbv	100
3) Chlorodifluoromethane	1.476	51	150832	9.431	ppbv	100
4) Chloromethane	1.535	50	51934	8.869	ppbv	100
5) Vinyl Chloride	1.583	62	50044	8.713	ppbv	100
6) Bromomethane	1.671	94	27062	8.593	ppbv	100
7) Chloroethane	1.706	64	19941	8.492	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	108109	9.049	ppbv	100
9) Propene	1.483	41	68116	9.602	ppbv	100
10) Heptane	4.985	43	187423	9.217	ppbv	100
11) Trichlorofluoromethane	1.881	101	129180	8.935	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	101442	8.715	ppbv	100
13) Ethanol	1.722	45	20045	7.640	ppbv	100
14) Bromoethene	1.784	108	38553	8.916	ppbv	100
15) Acetone	1.836	43	113399	8.047	ppbv	100
16) 1,3-Butadiene	1.612	39	57406	8.596	ppbv	100
17) tert-Butyl alcohol	2.043	59	175630	9.130	ppbv	100
18) 1,1-Dichloroethene	2.036	96	45413	8.949	ppbv	100
19) Isopropyl Alcohol	1.887	45	75355	8.634	ppbv	97
20) Methylene Chloride	2.065	84	42212	7.620	ppbv	100
21) Allyl Chloride	2.098	41	94625	9.145	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	53146	8.761	ppbv	100
23) Vinyl Acetate	2.467	43	168706	8.218	ppbv	100
24) 1,1-Dichloroethane	2.412	63	107153	9.143	ppbv	100
25) Ethyl Acetate	2.839	43	325662	9.371	ppbv	100
26) Hexane	2.829	57	146168	9.128	ppbv	99
27) Carbon Disulfide	2.153	76	136729	9.319	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	61076	8.384	ppbv	98
29) Chloroform	2.852	83	211071	9.097	ppbv	100
30) Cyclohexane	3.862	84	126226	9.037	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	146072	9.553	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	222043	9.189	ppbv	100
34) 2-Butanone	2.557	43	207274	8.971	ppbv	100
35) Carbon Tetrachloride	3.768	117	221937	9.032	ppbv	100
36) Benzene	3.661	78	297653	9.246	ppbv	100
37) 1,2-Dichloroethane	3.221	62	165898	8.946	ppbv	100
38) Trichloroethene	4.554	130	116947	8.708	ppbv	100
39) 1,2-Dichloropropane	4.315	63	108446	9.207	ppbv	100
40) 1,4-Dioxane	4.583	88	48201	9.153	ppbv #	97
41) Tetrahydrofuran	3.056	42	117069	9.076	ppbv	100
42) Bromodichloromethane	4.496	83	238353	9.286	ppbv	100
43) Methyl Methacrylate	4.881	69	153927	9.371	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	499148	9.273	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	157856	9.620	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043105.D
Acq On : 14 Oct 2025 10:31
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:51:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	186533	9.525	ppbv	100
47) 1,1,2-Trichloroethane	6.584	97	115419	9.082	ppbv	100
48) Dibromochloromethane	7.390	129	201349	9.476	ppbv	100
49) Bromoform	9.487	173	166377	9.633	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	298401	9.362	ppbv	100
51) 2-Hexanone	7.438	43	236391	9.940	ppbv	100
52) Tetrachloroethene	8.228	164	106710	9.192	ppbv	100
53) Toluene	6.940	91	354007	9.266	ppbv	100
54) 1,2-Dibromoethane	7.658	107	182074	9.080	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	182585	9.367	ppbv	100
57) Chlorobenzene	8.927	112	262566	9.076	ppbv	100
58) Ethyl Benzene	9.358	91	494344	9.241	ppbv	100
59) m/p-Xylene	9.536	91	765374m	18.067	ppbv	
60) o-Xylene	9.969	91	378462	9.053	ppbv	100
61) Styrene	9.875	104	178859	9.477	ppbv	100
62) Isopropylbenzene	10.542	105	692992	9.173	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	240245	8.582	ppbv	100
64) n-propylbenzene	10.992	120	182233	9.112	ppbv	100
65) tert-Butylbenzene	11.536	119	587750	8.810	ppbv	100
66) Benzyl Chloride	11.617	91	74574	10.009	ppbv	100
67) sec-Butylbenzene	11.769	105	834052	8.809	ppbv	100
69) p-Isopropyltoluene	11.927	119	720433	8.955	ppbv	100
70) n-Butylbenzene	12.283	91	717743	9.053	ppbv	100
71) 2-Chlorotoluene	10.905	91	524961	9.111	ppbv	100
72) 4-Ethyltoluene	11.128	105	473042	9.202	ppbv	100
73) 1,3,5-Trimethylbenzene	11.206	105	389818	9.195	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	411619	8.676	ppbv	100
75) 1,3-Dichlorobenzene	11.610	146	252926	9.192	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	254461	9.171	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	236724	8.893	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	171777	8.334	ppbv	100
79) Naphthalene	13.517	128	488672	9.972	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	147897	11.431	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	197210	9.582	ppbv	100

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

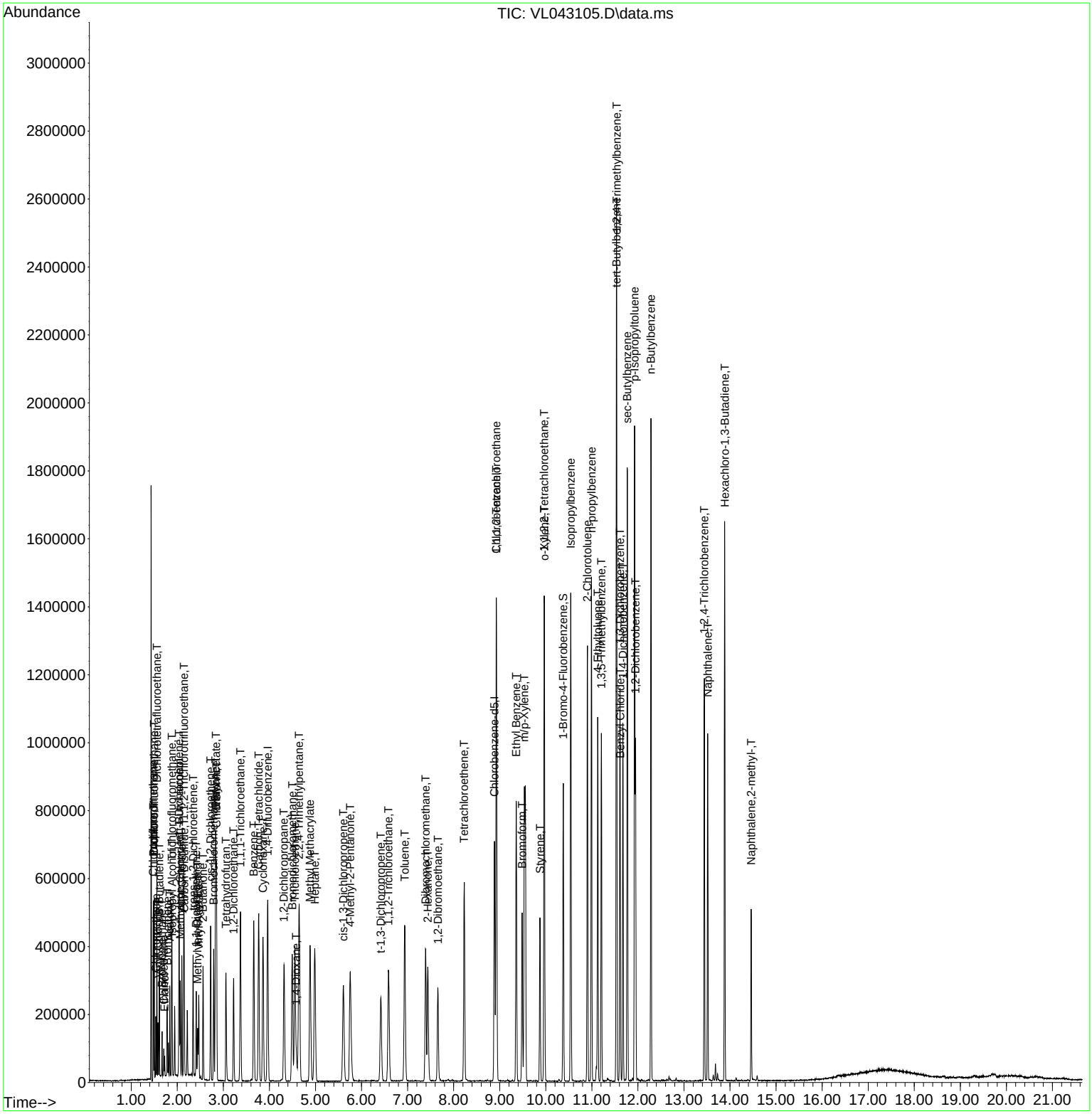
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043105.D
Acq On : 14 Oct 2025 10:31
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

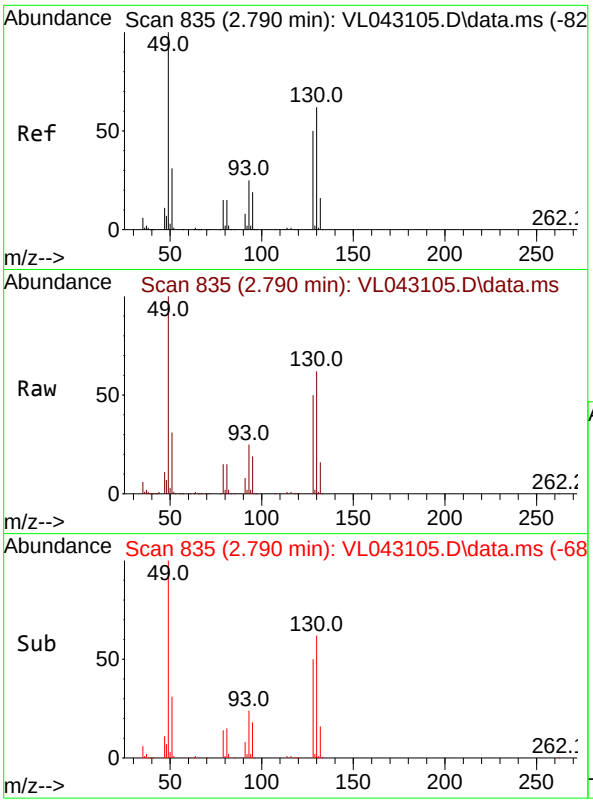
Quant Time: Oct 15 01:51:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

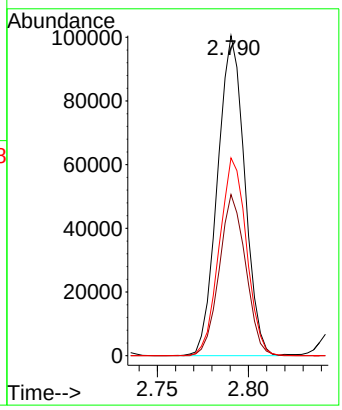




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 49 Resp: 10397

Ion	Ratio	Lower	Upper
49	100		
128	48.9	24.4	73.4
130	62.0	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
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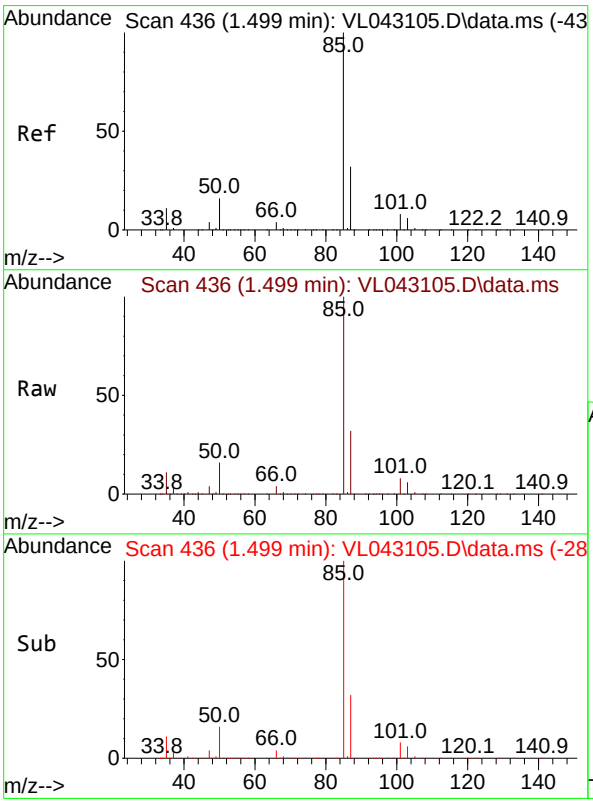
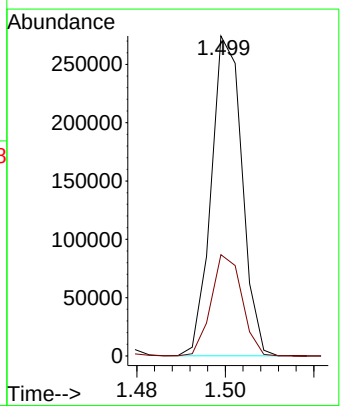
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

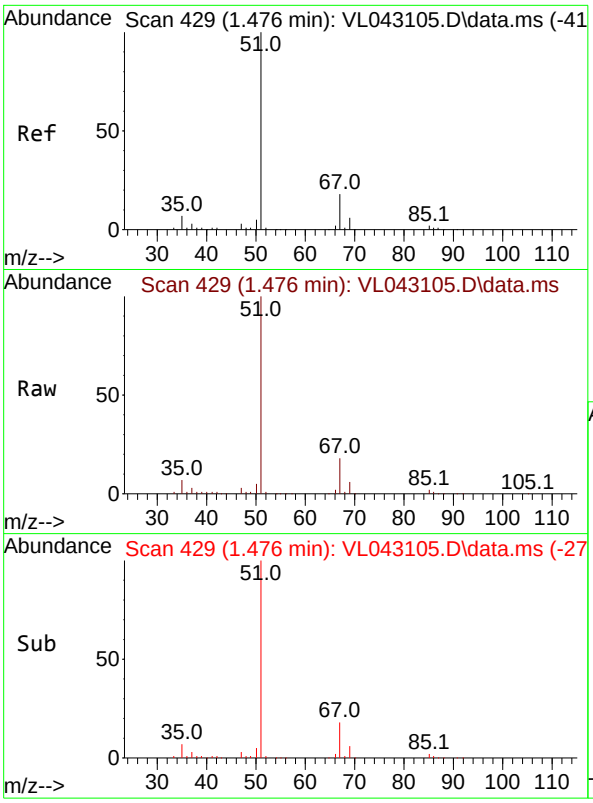


#2
Dichlorodifluoromethane
Concen: 8.987 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 132845

Ion	Ratio	Lower	Upper
85	100		
87	31.6	25.3	37.9

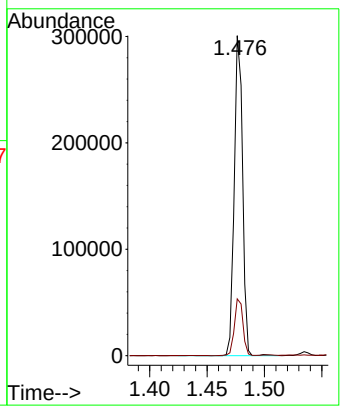




#3
Chlorodifluoromethane
Concen: 9.431 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 51 Resp: 15083

Ion	Ratio	Lower	Upper
51	100		
67	18.9	15.1	22.7



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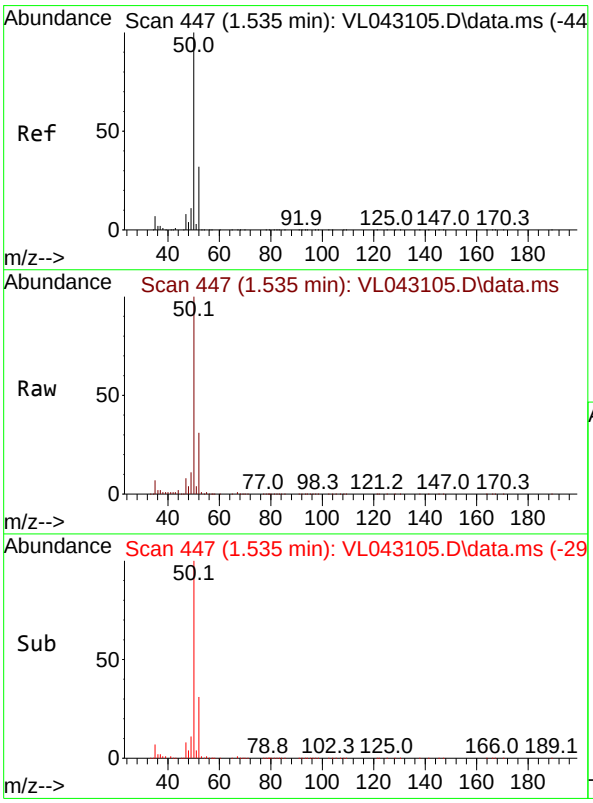
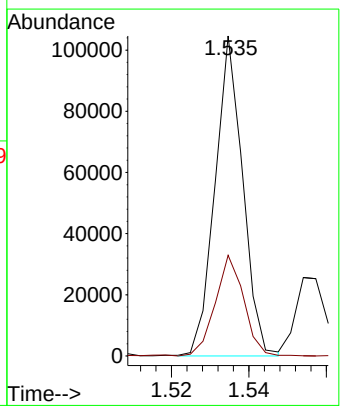
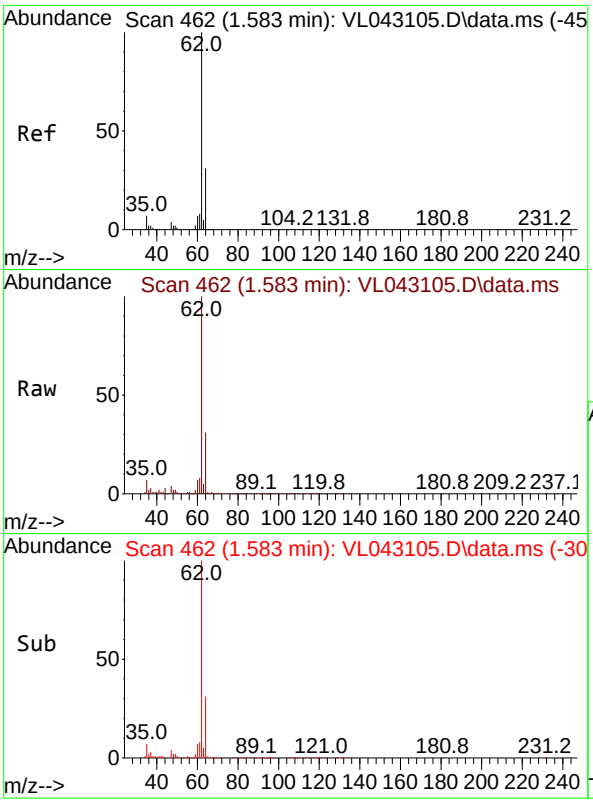


#4
Chloromethane
Concen: 8.869 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 50 Resp: 51934

Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.2	37.8

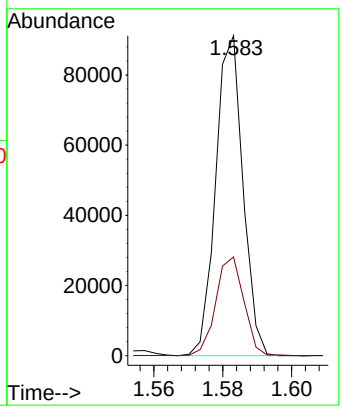




#5
Vinyl Chloride
Concen: 8.713 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 62 Resp: 5004

Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.6	36.8



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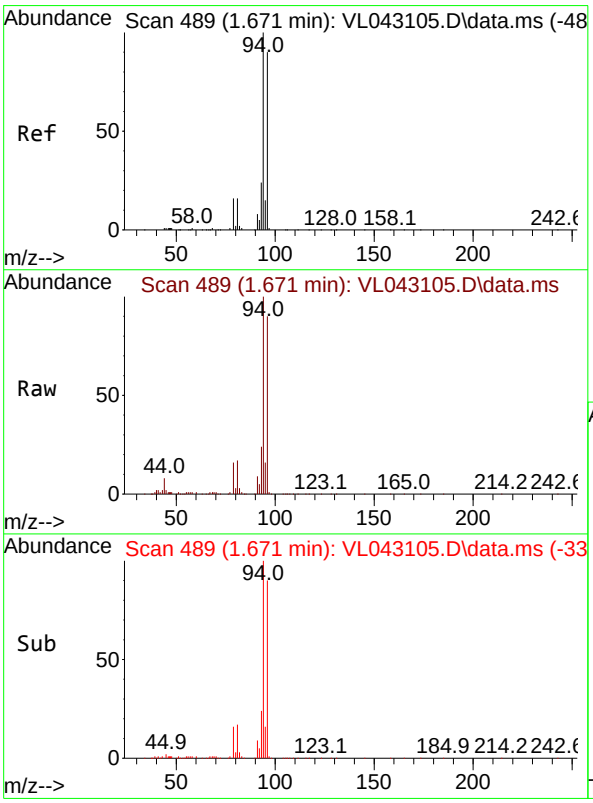
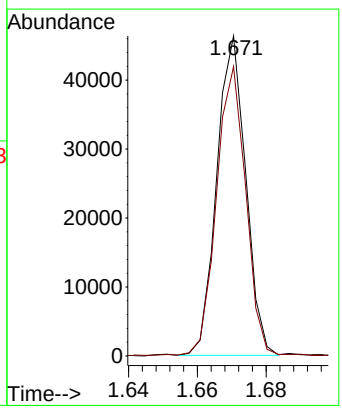
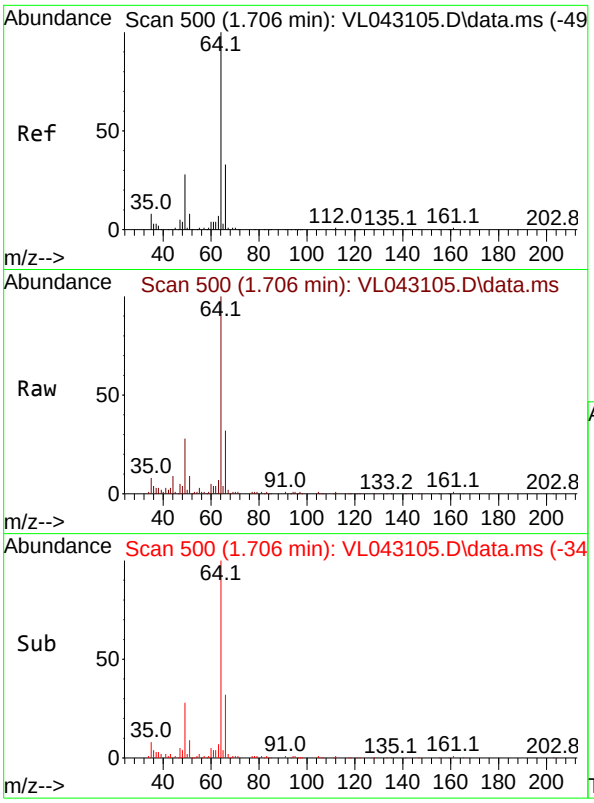


#6
Bromomethane
Concen: 8.593 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 94 Resp: 27062

Ion	Ratio	Lower	Upper
94	100		
96	90.3	72.2	108.4

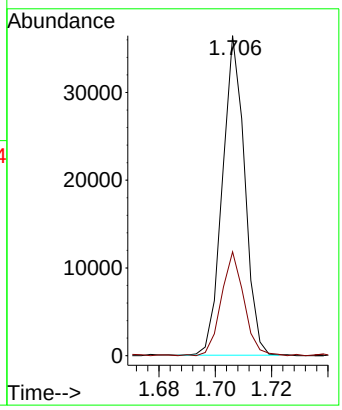




#7
Chloroethane
Concen: 8.492 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 64 Resp: 1994

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.0	39.0



Instrument :
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ClientSampleId :
VSTDICCC010

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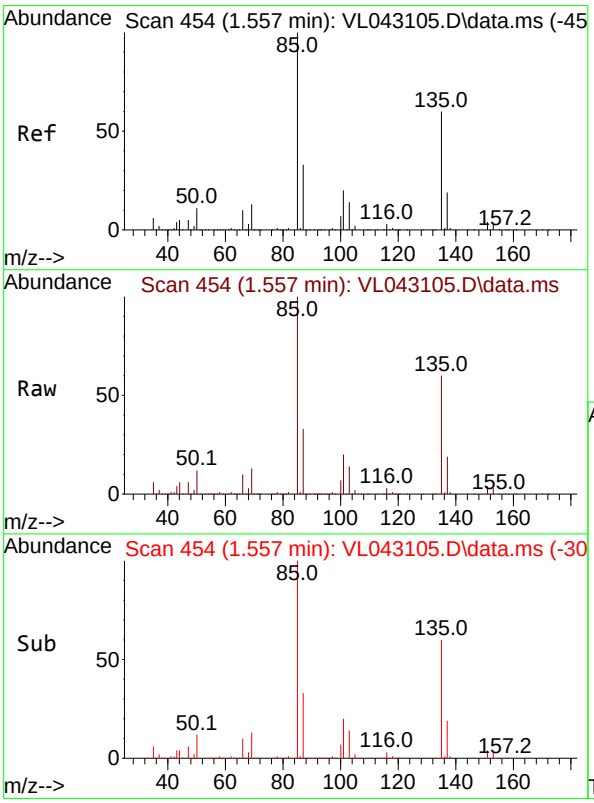
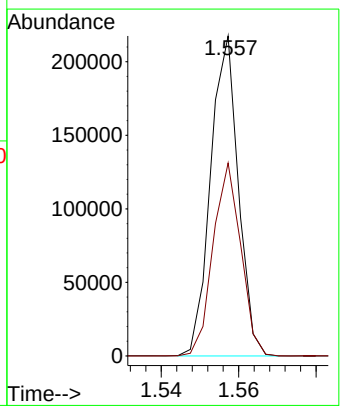
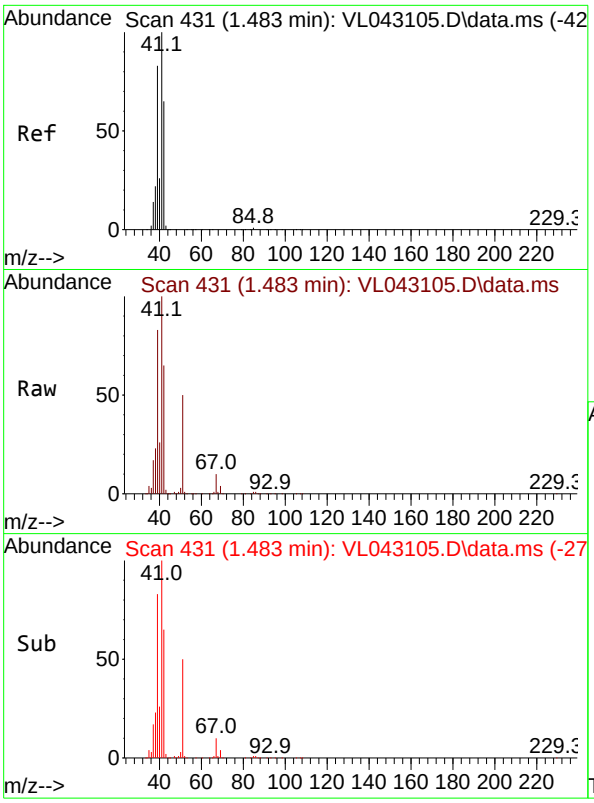


#8
Dichlorotetrafluoroethane
Concen: 9.049 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 108109

Ion	Ratio	Lower	Upper
85	100		
135	60.3	48.2	72.4

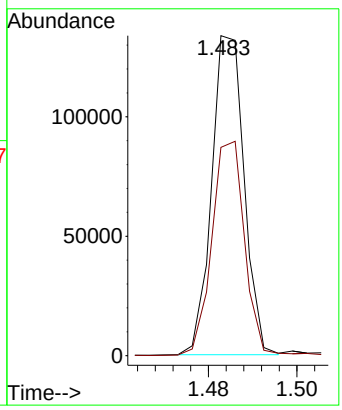




#9
Propene
Concen: 9.602 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 41 Resp: 6811

Ion	Ratio	Lower	Upper
41	100		
42	68.9	55.1	82.7



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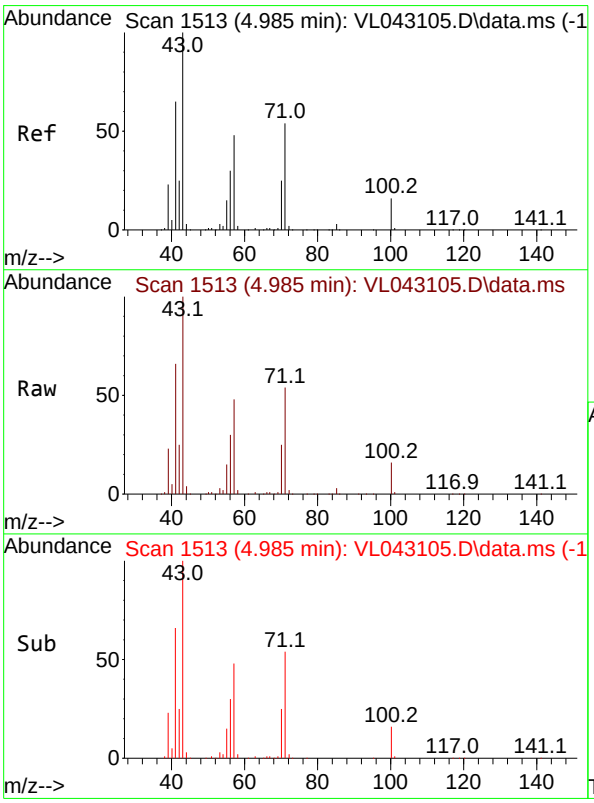
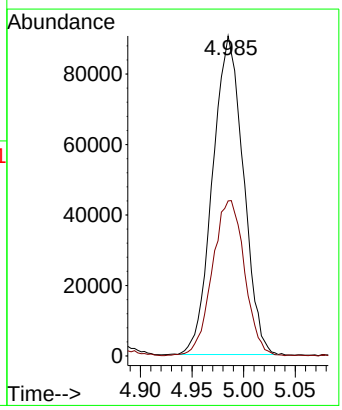
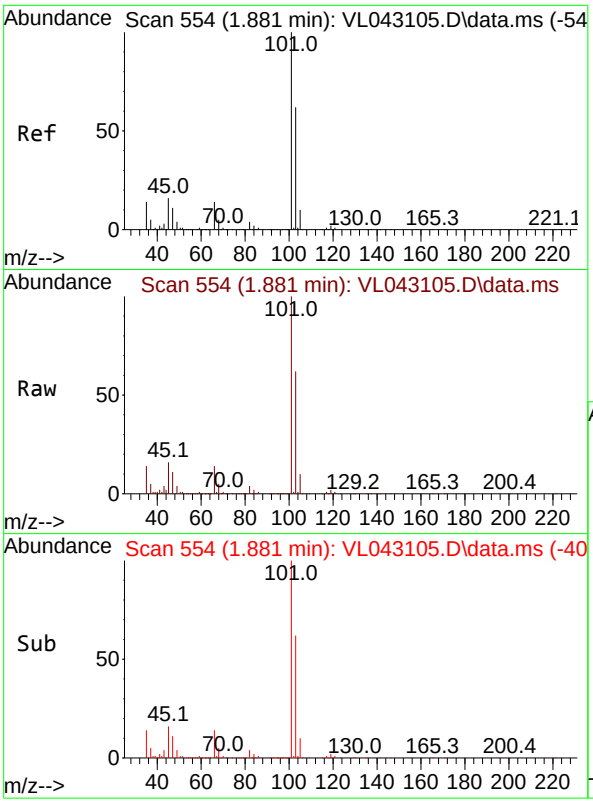


#10
Heptane
Concen: 9.217 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 187423

Ion	Ratio	Lower	Upper
43	100		
57	50.9	40.8	61.2

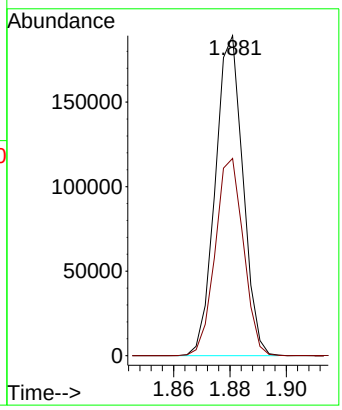




#11
Trichlorofluoromethane
Concen: 8.935 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:101 Resp: 12918

Ion	Ratio	Lower	Upper
101	100		
103	61.6	49.3	73.9



Instrument :
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ClientSampleId :
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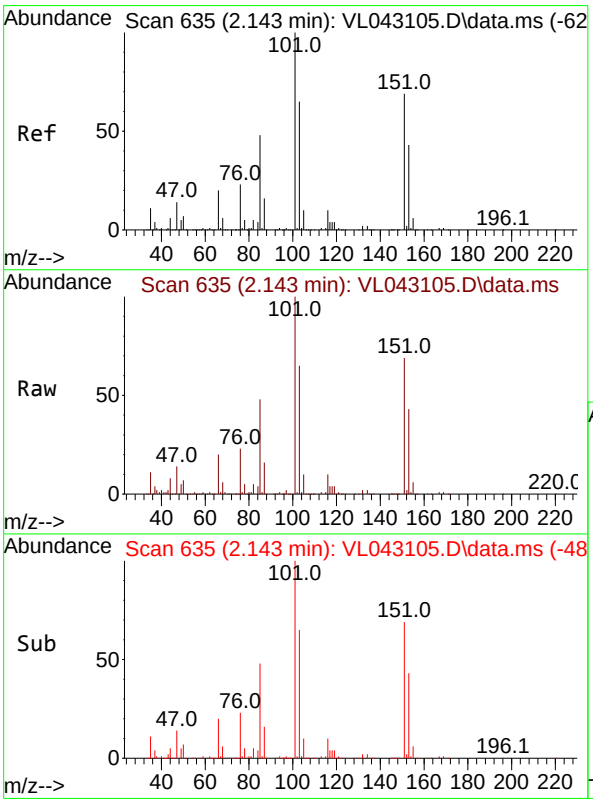
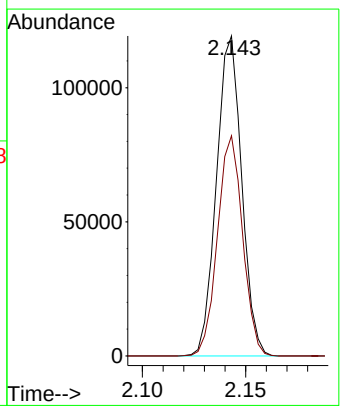
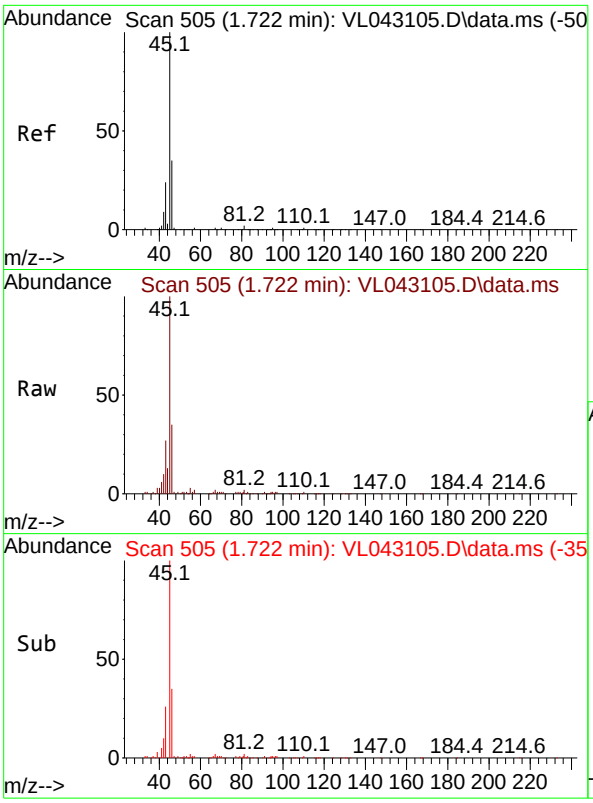


#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.715 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:101 Resp: 101442

Ion	Ratio	Lower	Upper
101	100		
151	68.4	54.7	82.1

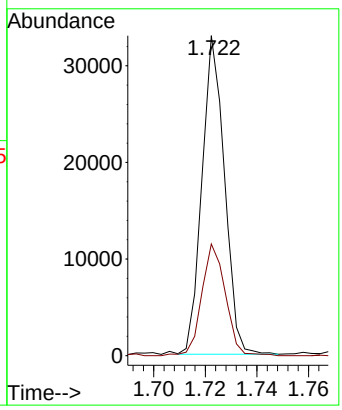




#13
Ethanol
Concen: 7.640 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 45 Resp: 2004

Ion	Ratio	Lower	Upper
45	100		
46	36.8	14.7	58.9



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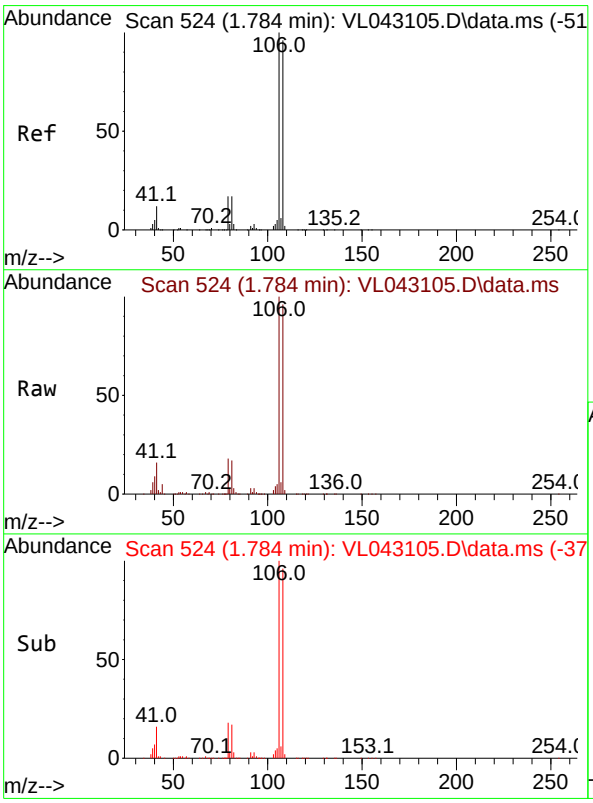
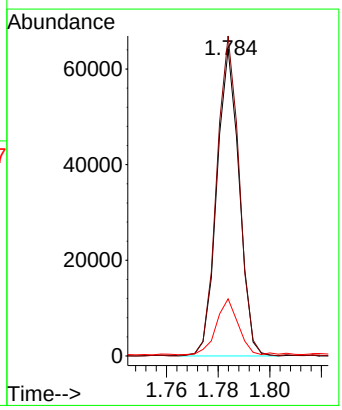
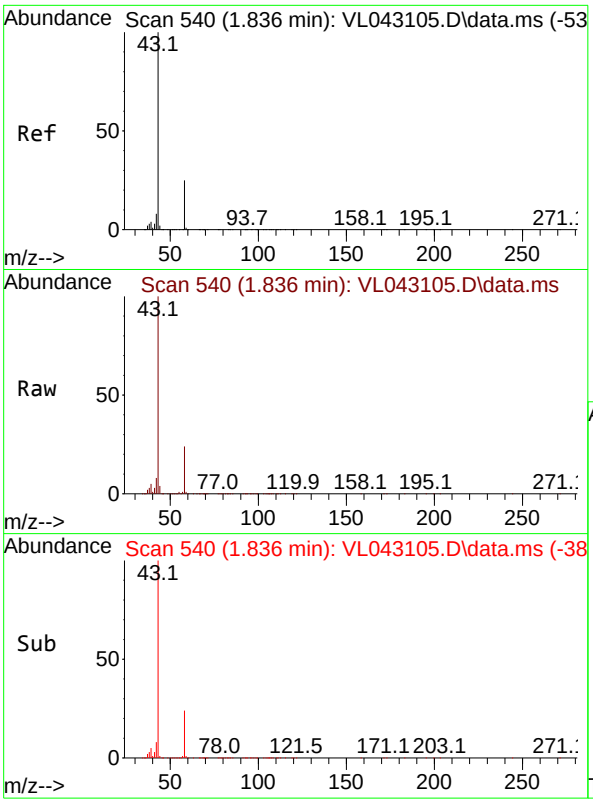


#14
Bromoethene
Concen: 8.916 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:108 Resp: 38553

Ion	Ratio	Lower	Upper
108	100		
106	105.5	84.4	126.6
79	19.1	15.3	22.9

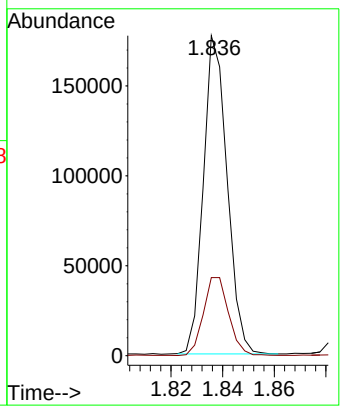




#15
Acetone
Concen: 8.047 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 113399

Ion	Ratio	Lower	Upper
43	100		
58	26.0	20.8	31.2



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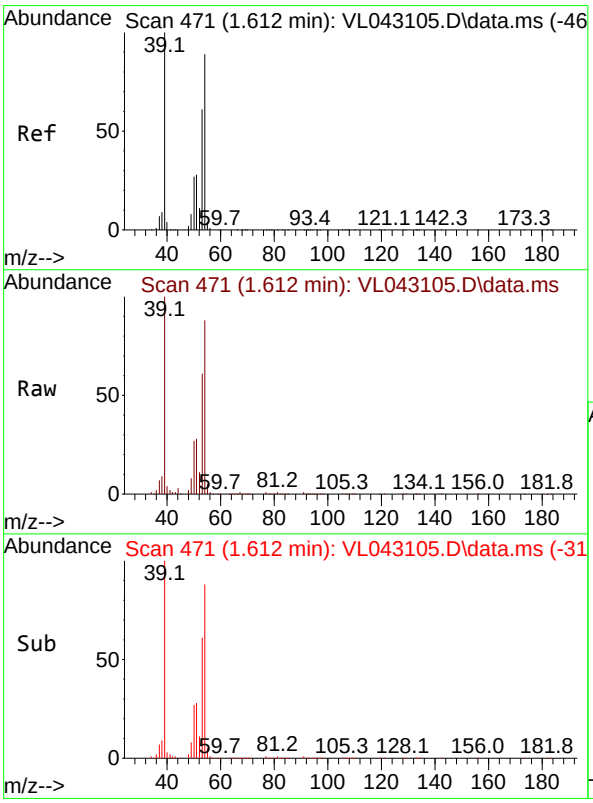
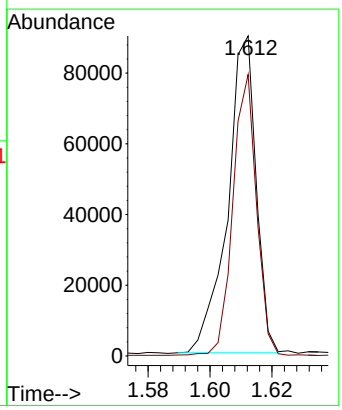
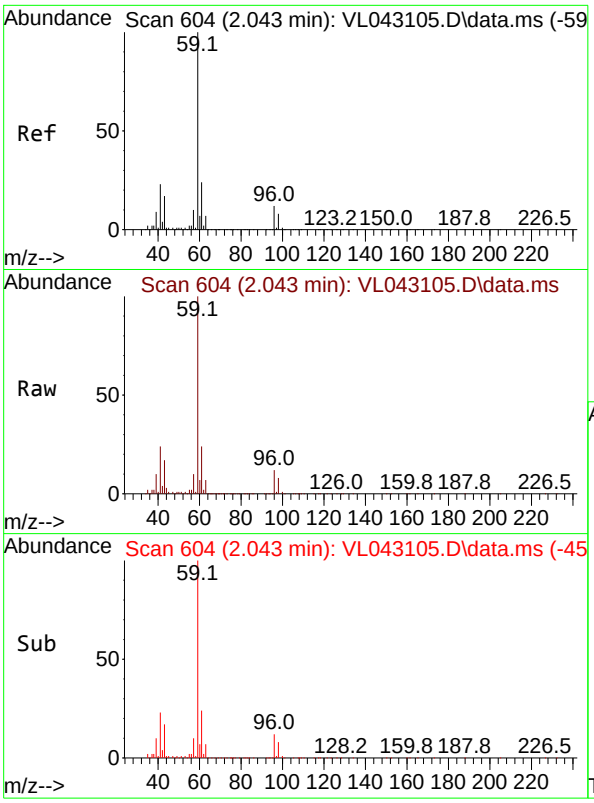


#16
1,3-Butadiene
Concen: 8.596 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 39 Resp: 57406

Ion	Ratio	Lower	Upper
39	100		
54	73.7	59.0	88.4

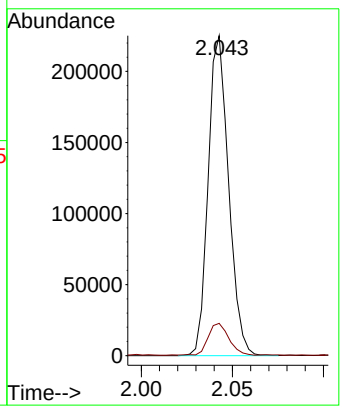




#17
tert-Butyl alcohol
Concen: 9.130 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 59 Resp: 17563

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.2	12.4



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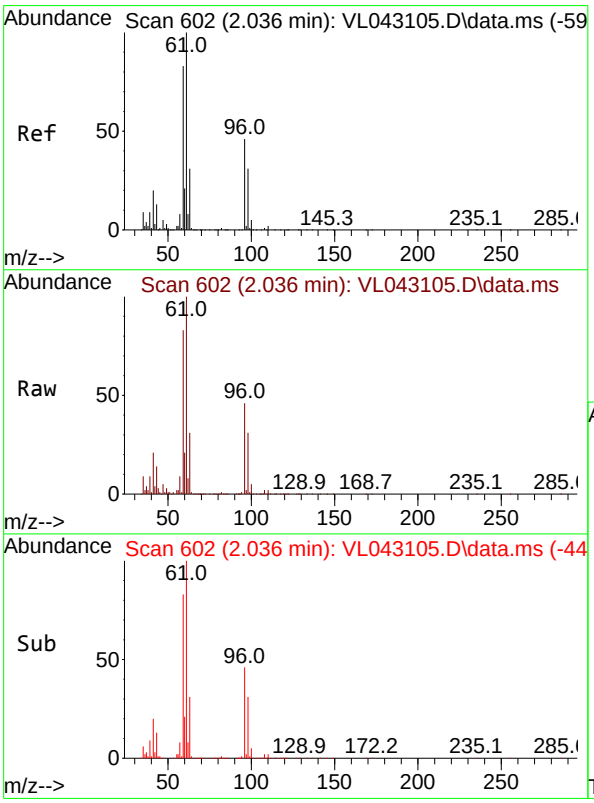
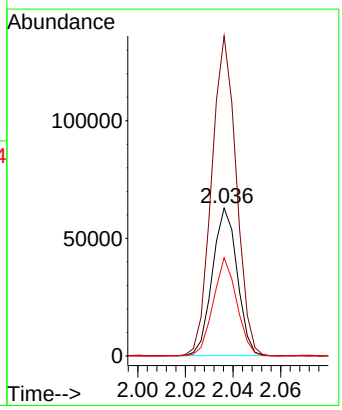
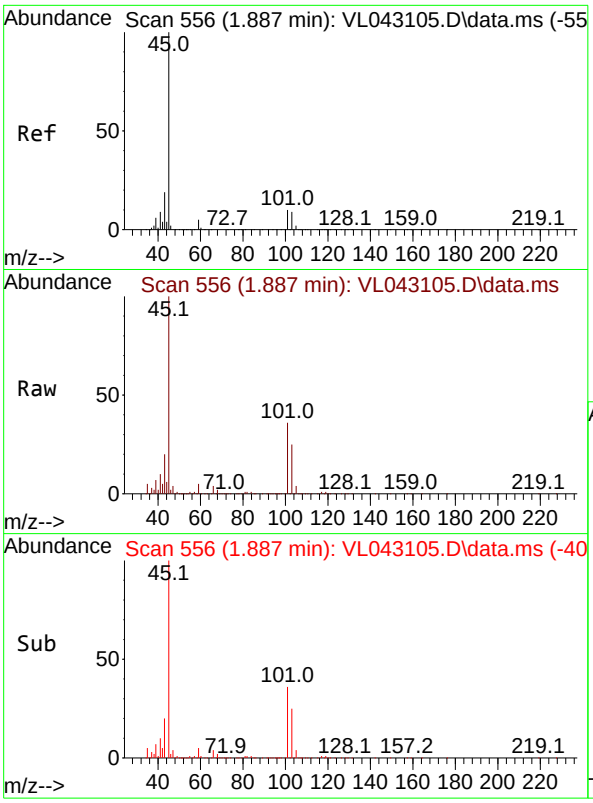


#18
1,1-Dichloroethene
Concen: 8.949 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 96 Resp: 45413

Ion	Ratio	Lower	Upper
96	100		
61	216.7	173.4	260.0
98	66.5	53.2	79.8

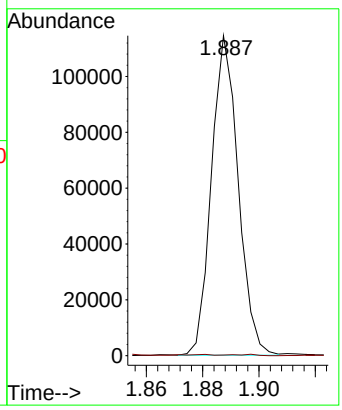




#19
Isopropyl Alcohol
Concen: 8.634 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 45 Resp: 7535

Ion	Ratio	Lower	Upper
45	100		
58	41.1	31.3	46.9



Instrument :
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ClientSampleId :
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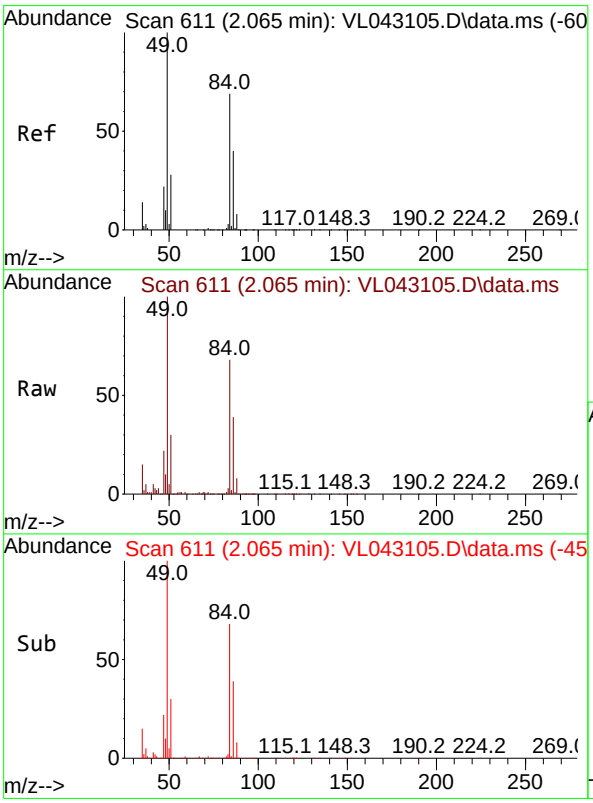
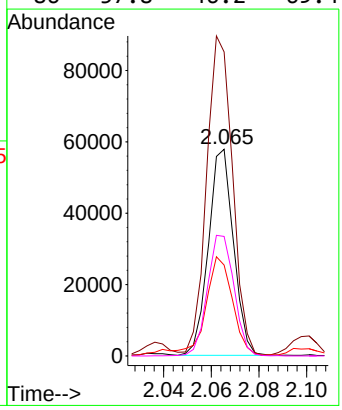
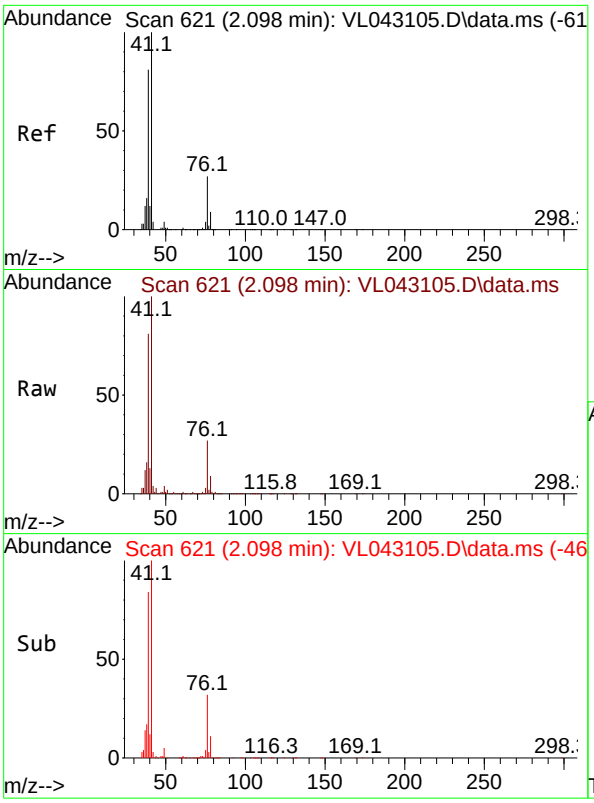


#20
Methylene Chloride
Concen: 7.620 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 84 Resp: 42212

Ion	Ratio	Lower	Upper
84	100		
49	145.8	116.6	175.0
51	43.5	34.8	52.2
86	57.8	46.2	69.4

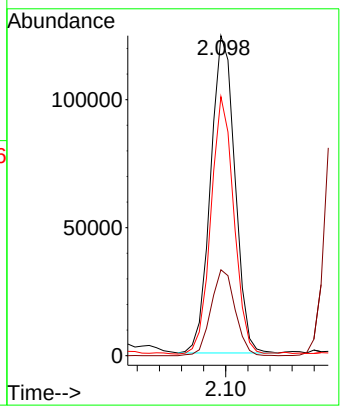




#21
Allyl Chloride
Concen: 9.145 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 41 Resp: 9462

Ion	Ratio	Lower	Upper
41	100		
76	26.9	21.5	32.3
39	76.4	60.8	91.2



Instrument :
MSVOA_L
ClientSampleId :
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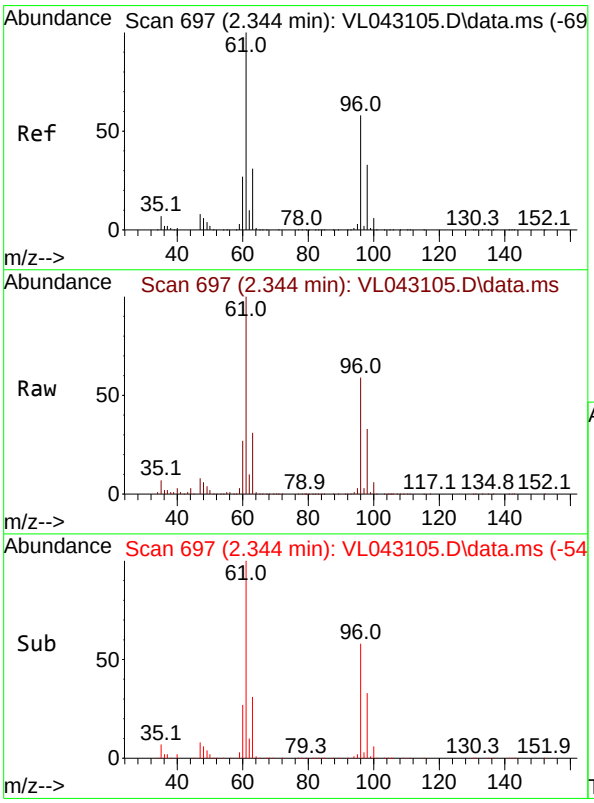
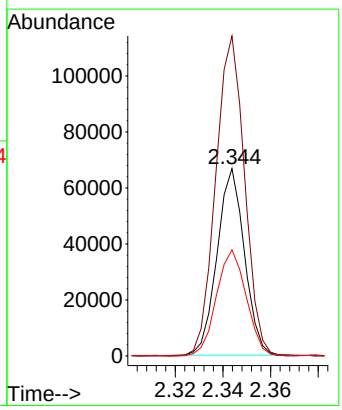
Supervised By :Mahesh Dadoda 10/16/2025

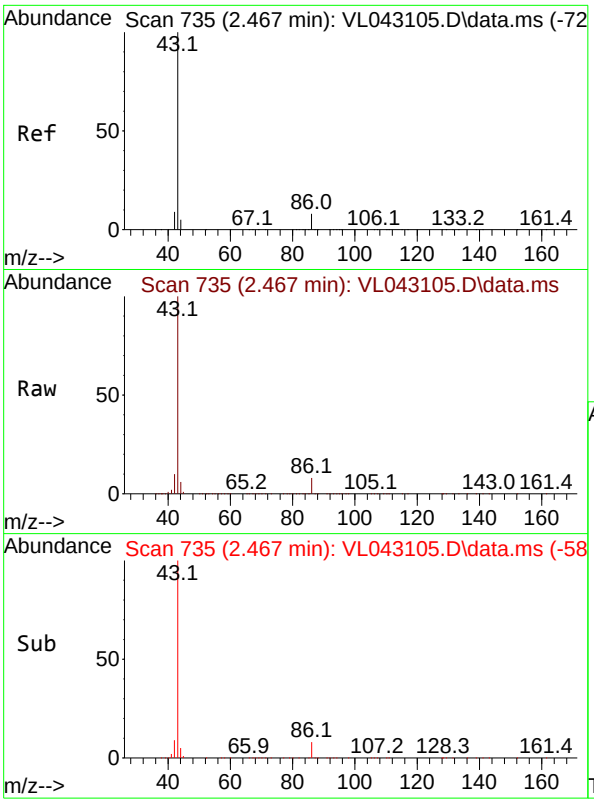


#22
trans-1,2-Dichloroethene
Concen: 8.761 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 96 Resp: 53146

Ion	Ratio	Lower	Upper
96	100		
61	171.3	137.0	205.6
98	56.9	45.5	68.3

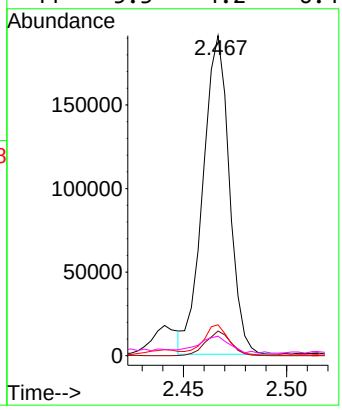




#23
Vinyl Acetate
Concen: 8.218 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 16870

Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.2	9.2
42	9.5	7.6	11.4
44	5.3	4.2	6.4



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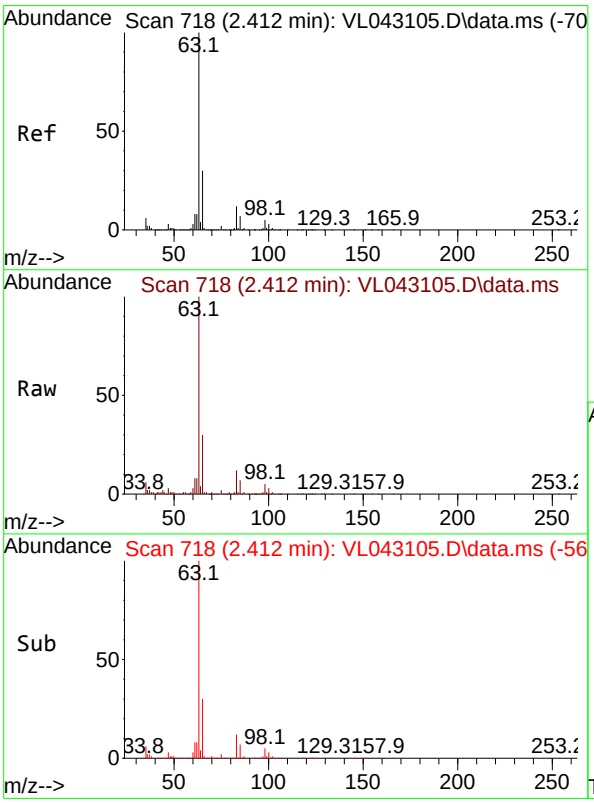
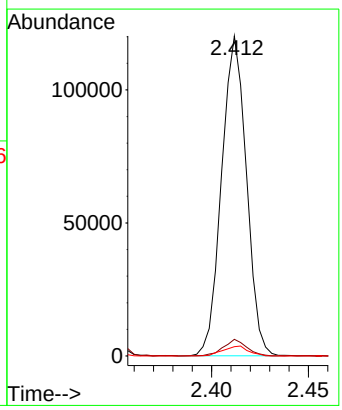
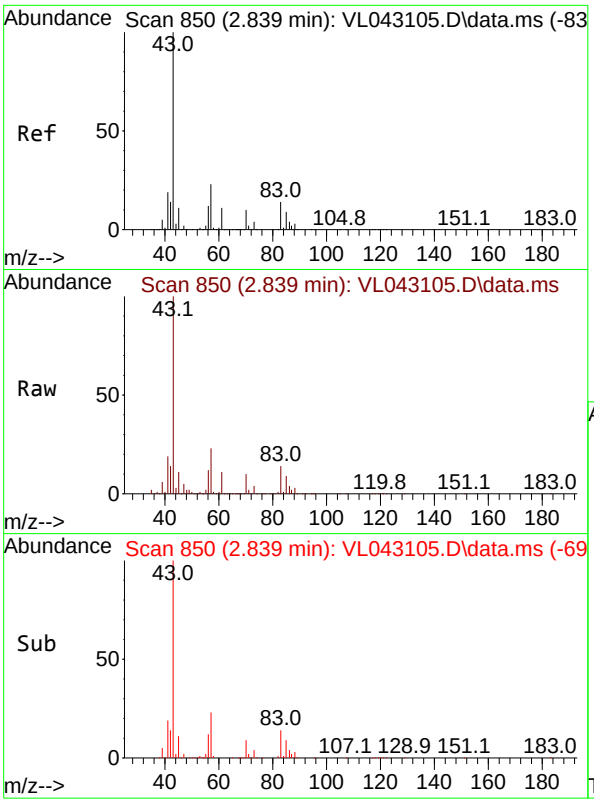


#24
1,1-Dichloroethane
Concen: 9.143 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 63 Resp: 107153

Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.6	7.8
100	2.9	1.5	4.4

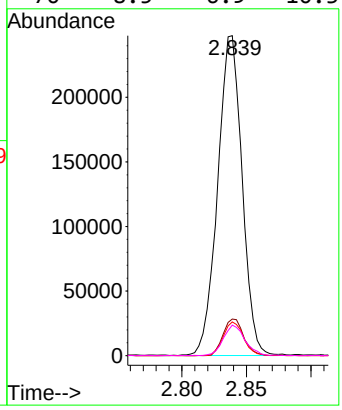




#25
Ethyl Acetate
Concen: 9.371 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 32566

Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	8.8	7.0	10.6
70	8.5	6.9	10.3



Instrument :
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ClientSampleId :
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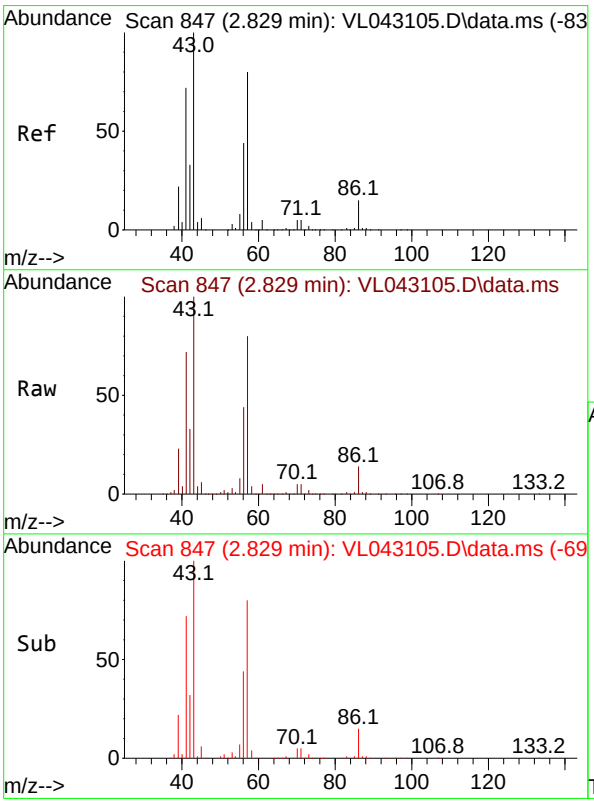
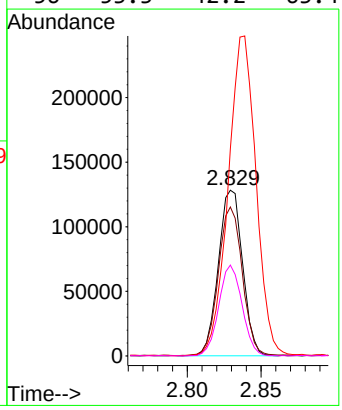
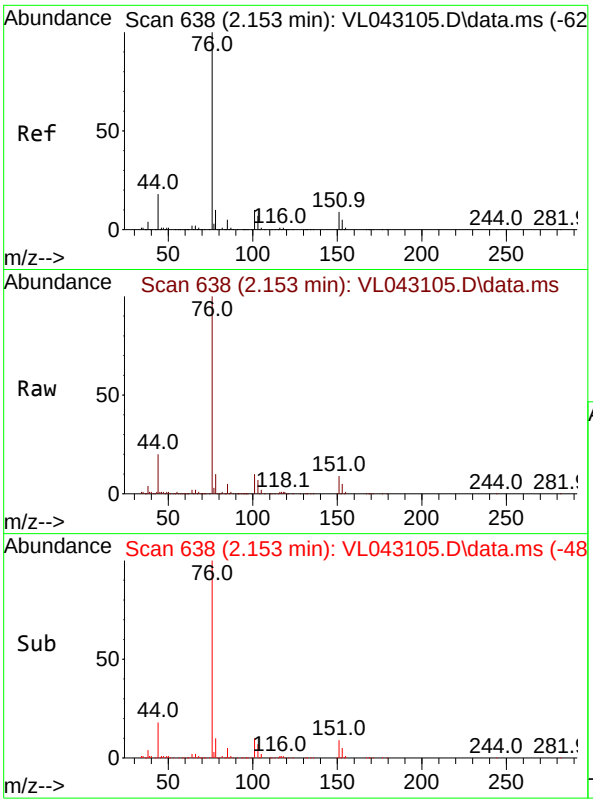


#26
Hexane
Concen: 9.128 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 57 Resp: 146168

Ion	Ratio	Lower	Upper
57	100		
41	90.2	71.4	107.0
43	222.4	178.5	267.7
56	53.3	42.2	63.4

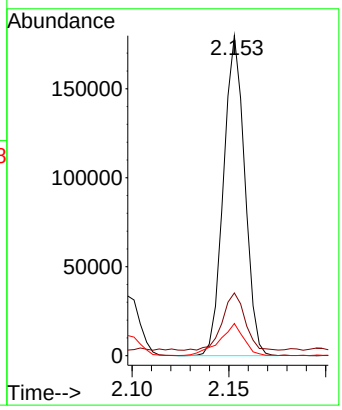




#27
Carbon Disulfide
Concen: 9.319 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 76 Resp: 13672

Ion	Ratio	Lower	Upper
76	100		
44	20.1	16.7	25.1
78	11.5	9.3	13.9



Instrument :
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ClientSampleId :
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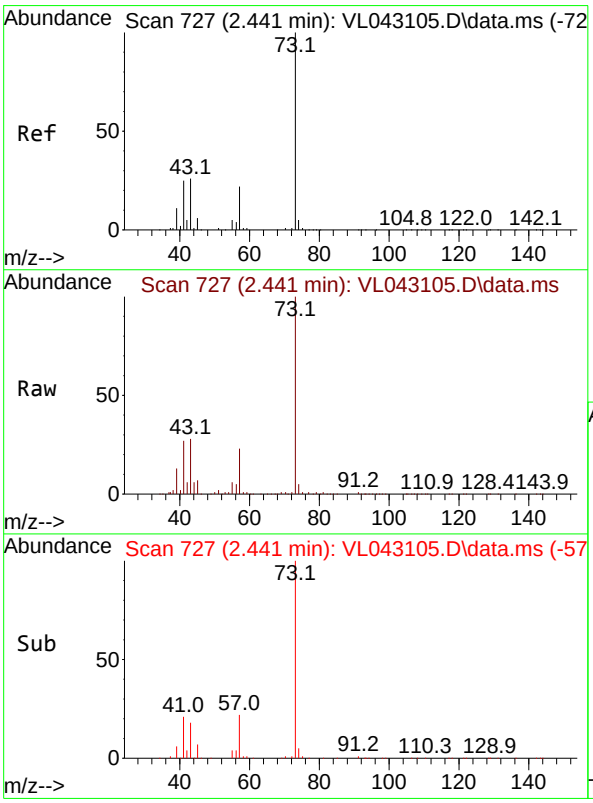
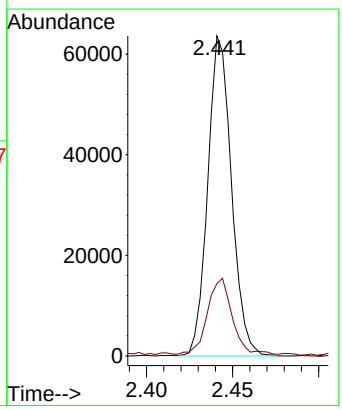
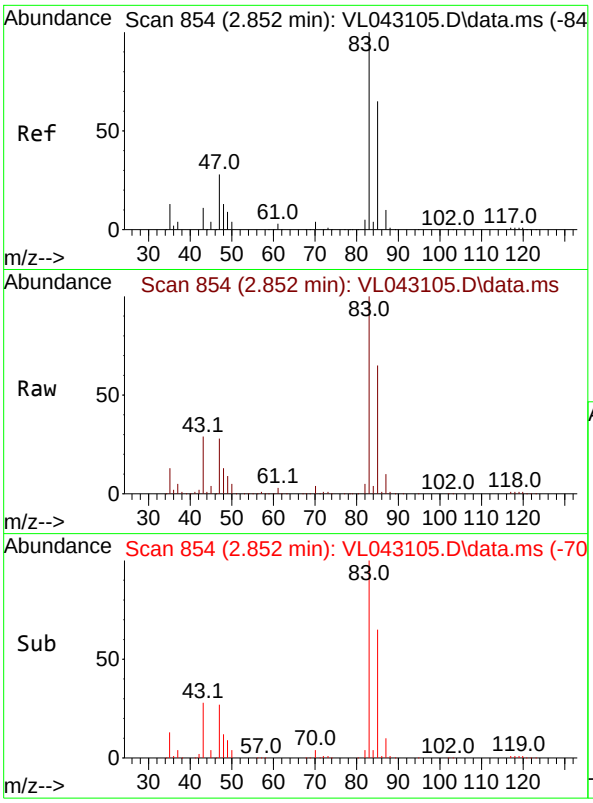


#28
Methyl tert-Butyl Ether
Concen: 8.384 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 73 Resp: 61076

Ion	Ratio	Lower	Upper
73	100		
57	24.8	20.5	30.7

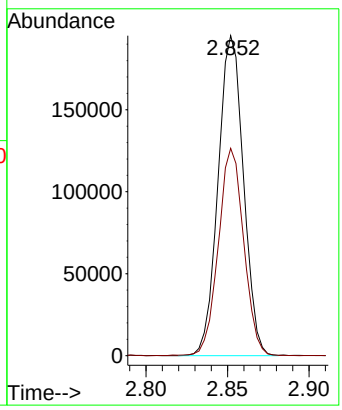




#29
Chloroform
Concen: 9.097 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 83 Resp: 21107

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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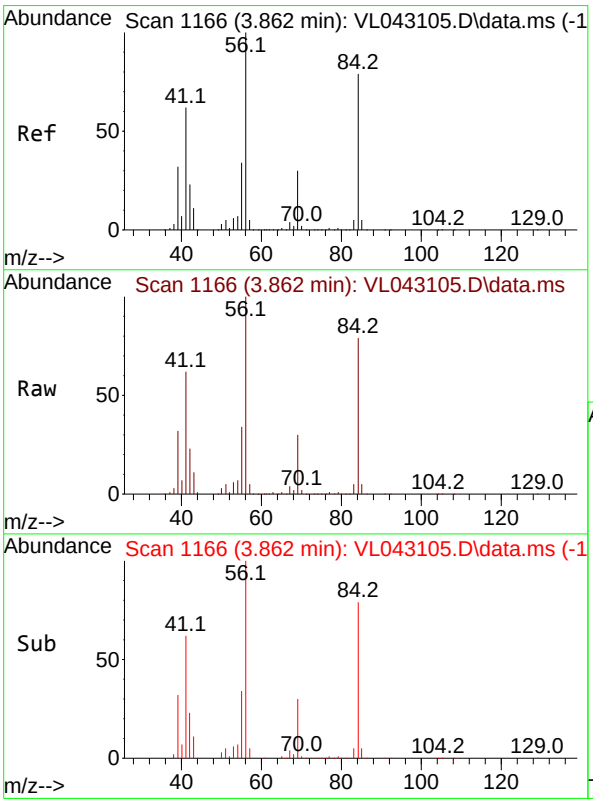
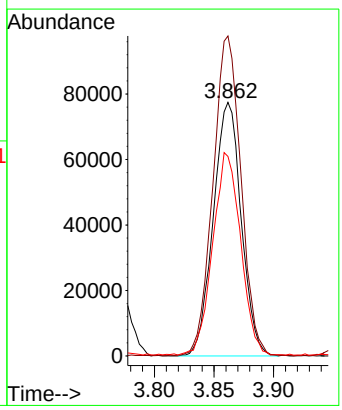
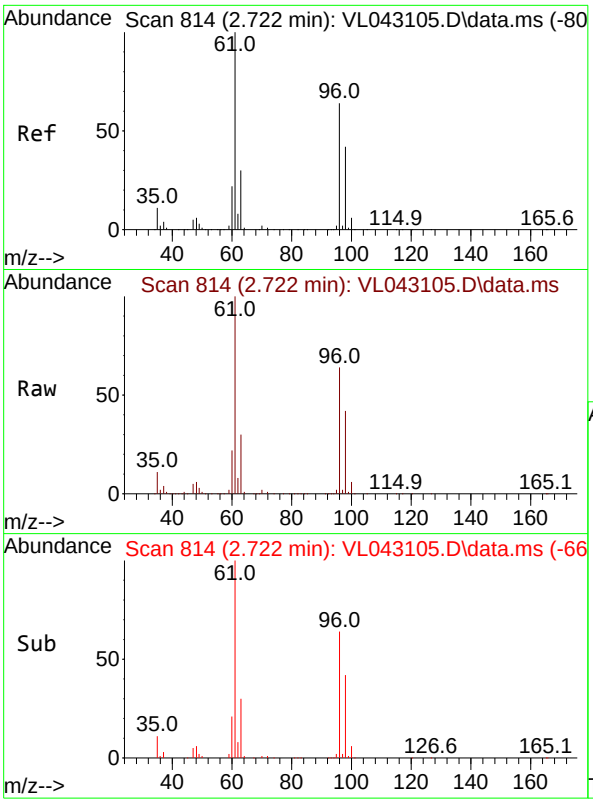


#30
Cyclohexane
Concen: 9.037 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 84 Resp: 126226

Ion	Ratio	Lower	Upper
84	100		
56	126.5	100.9	151.3
41	79.8	63.8	95.6

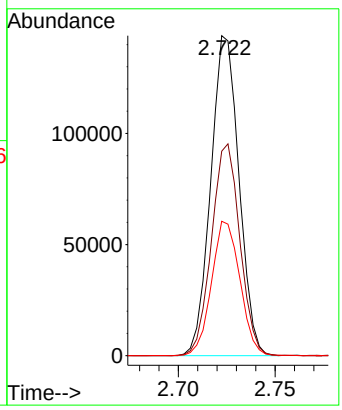




#31
cis-1,2-Dichloroethene
Concen: 9.553 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 61 Resp: 14607

Ion	Ratio	Lower	Upper
61	100		
96	63.8	51.0	76.6
98	41.9	33.5	50.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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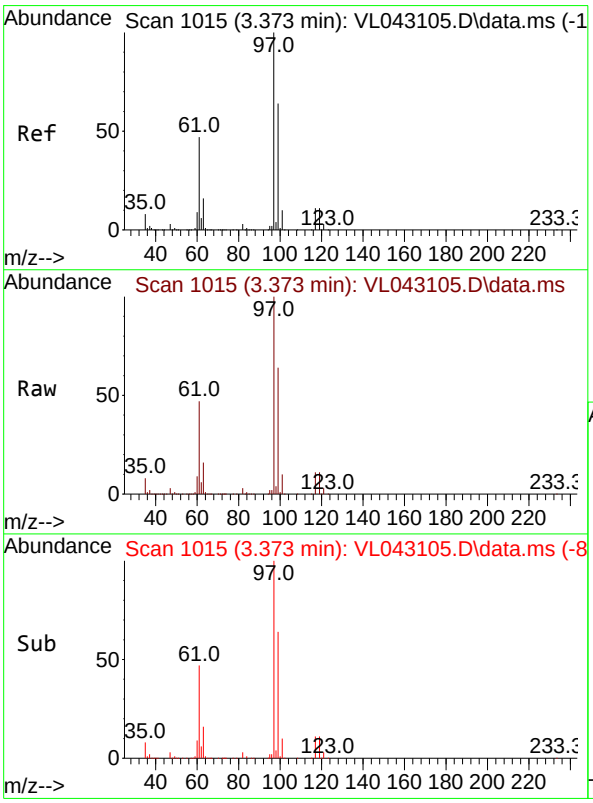
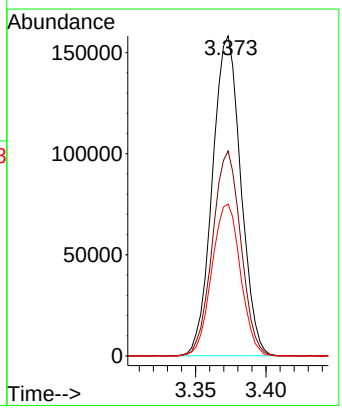
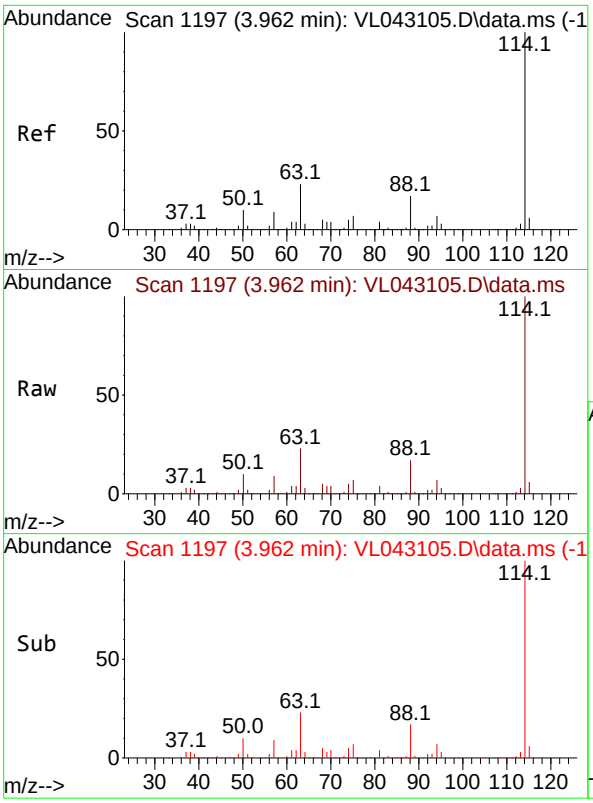


#32
1,1,1-Trichloroethane
Concen: 9.189 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 97 Resp: 222043

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.3	76.9
61	48.0	38.4	57.6

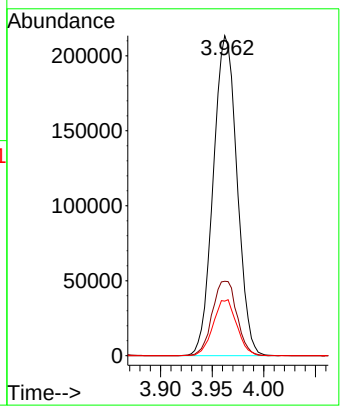




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:114 Resp: 34179

Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.3	28.9
88	17.4	13.9	20.9



Instrument :
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ClientSampleId :
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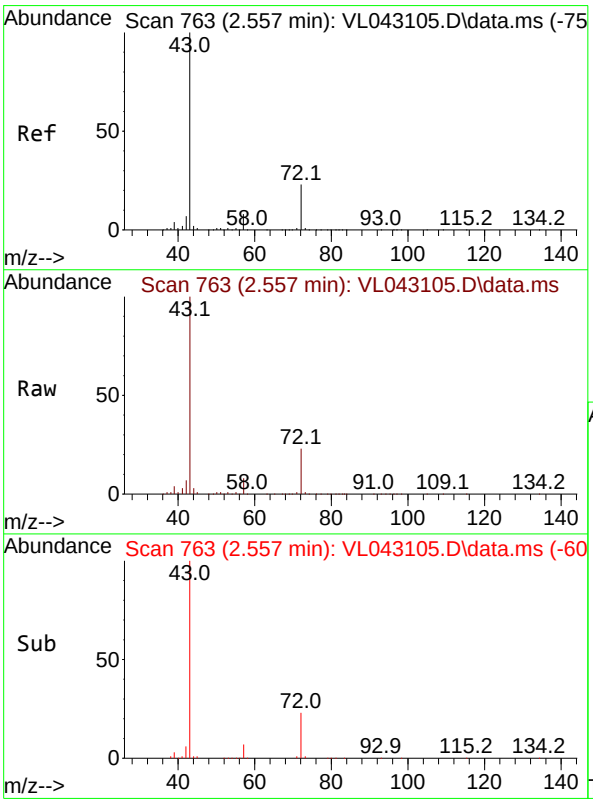
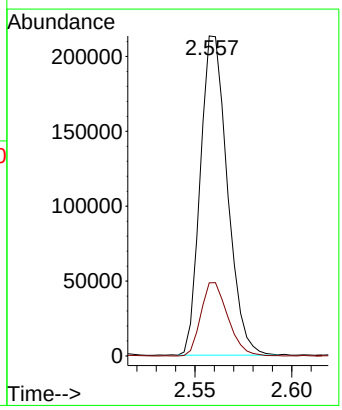
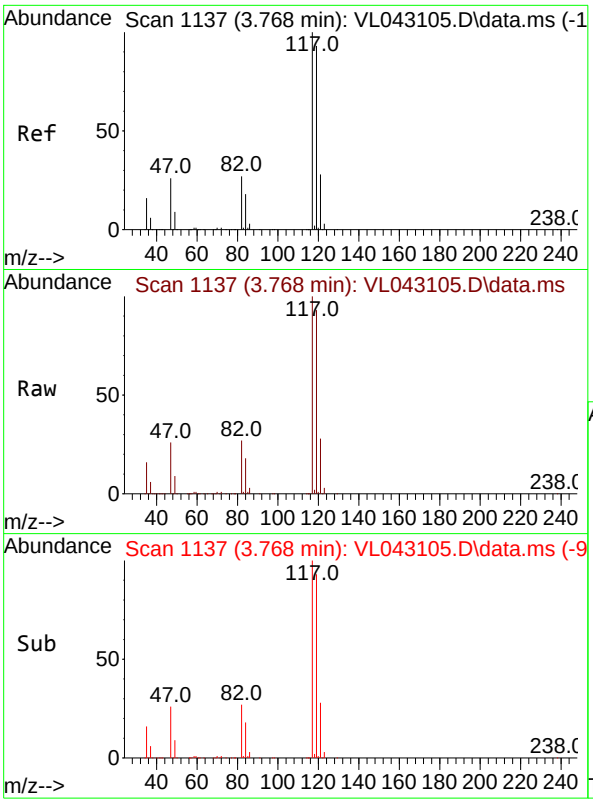


#34
2-Butanone
Concen: 8.971 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 207274

Ion	Ratio	Lower	Upper
43	100		
72	22.8	18.4	27.6

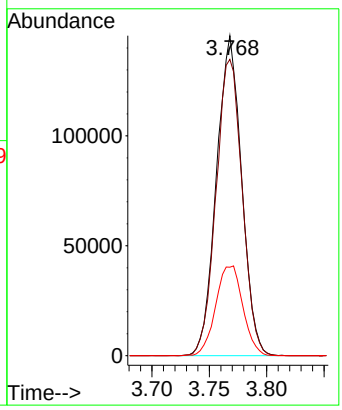




#35
Carbon Tetrachloride
Concen: 9.032 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:117 Resp: 22193

Ion	Ratio	Lower	Upper
117	100		
119	92.6	74.1	111.1
121	27.7	22.2	33.2



Instrument :
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ClientSampleId :
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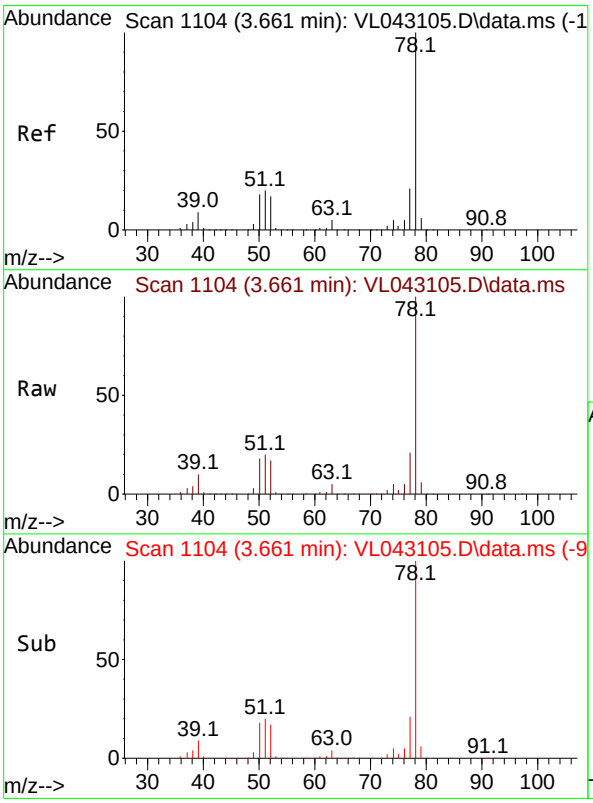
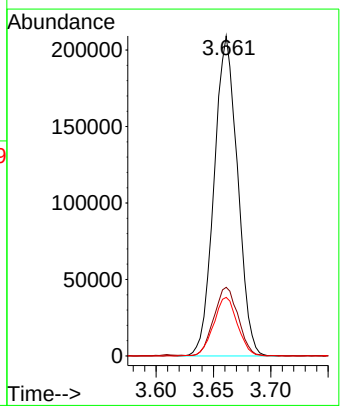
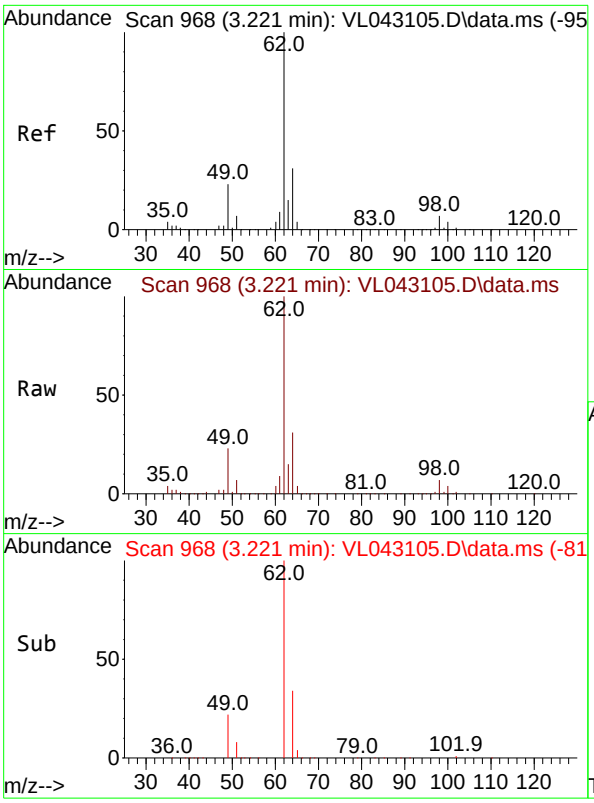


#36
Benzene
Concen: 9.246 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 78 Resp: 297653

Ion	Ratio	Lower	Upper
78	100		
77	21.3	17.0	25.6
50	18.3	14.6	22.0

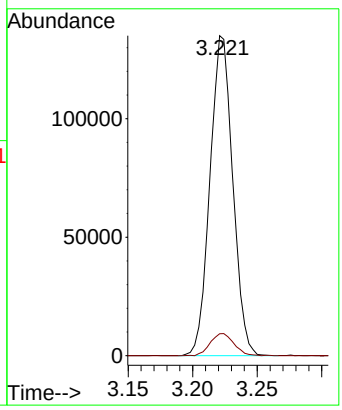




#37
1,2-Dichloroethane
Concen: 8.946 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 62 Resp: 16589

Ion	Ratio	Lower	Upper
62	100		
98	7.2	5.8	8.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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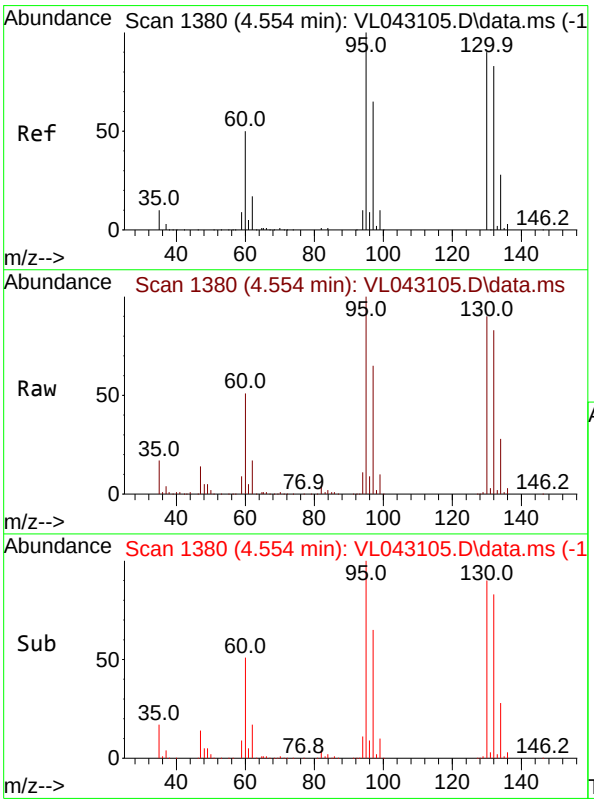
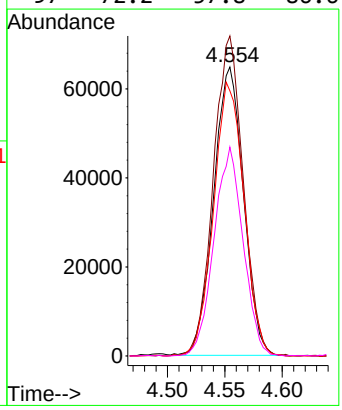
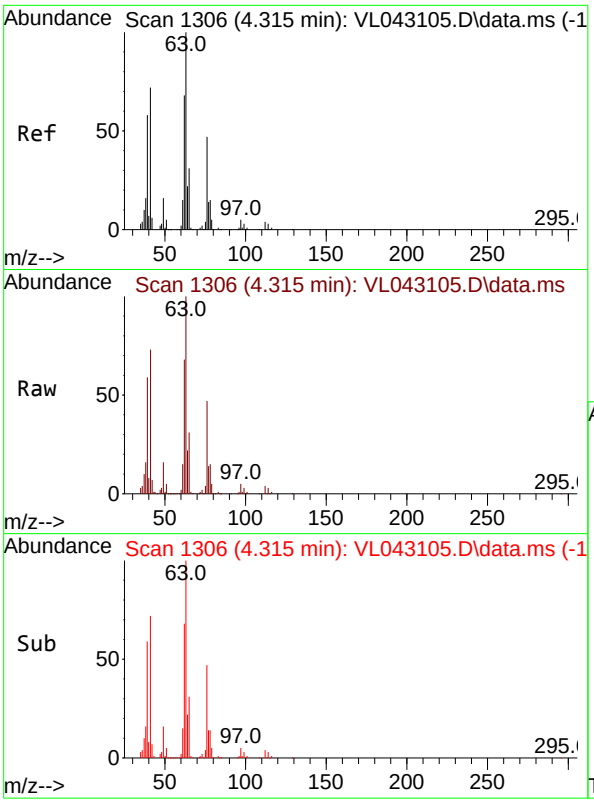


#38
Trichloroethene
Concen: 8.708 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:130 Resp: 116947

Ion	Ratio	Lower	Upper
130	100		
95	110.8	88.6	133.0
132	91.7	73.4	110.0
97	72.2	57.8	86.6

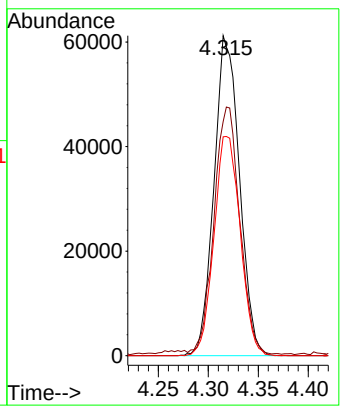




#39
1,2-Dichloropropane
Concen: 9.207 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 63 Resp: 10844

Ion	Ratio	Lower	Upper
63	100		
41	72.5	58.0	87.0
62	68.4	54.7	82.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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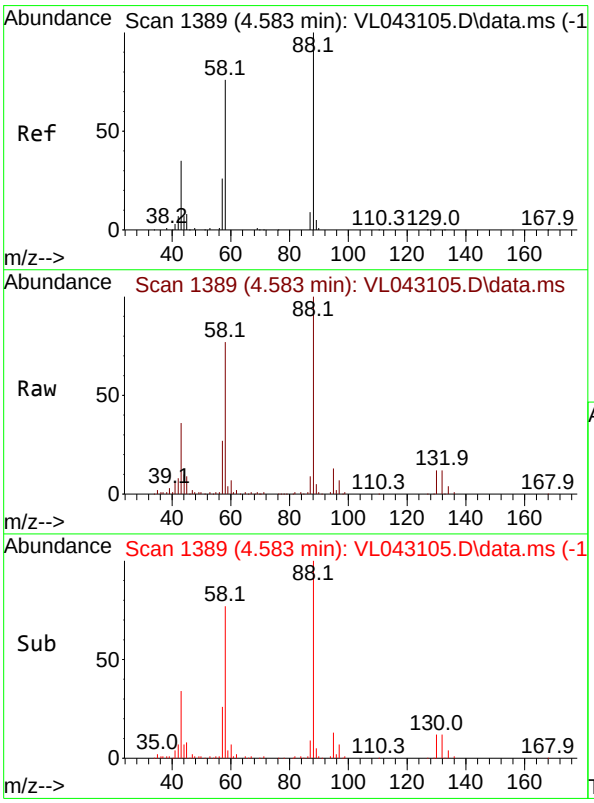
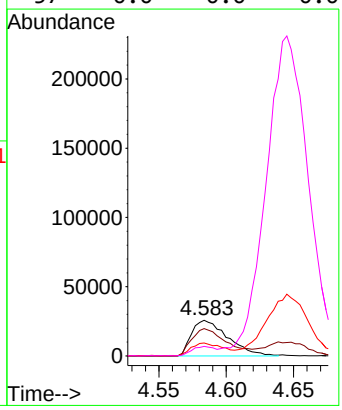
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

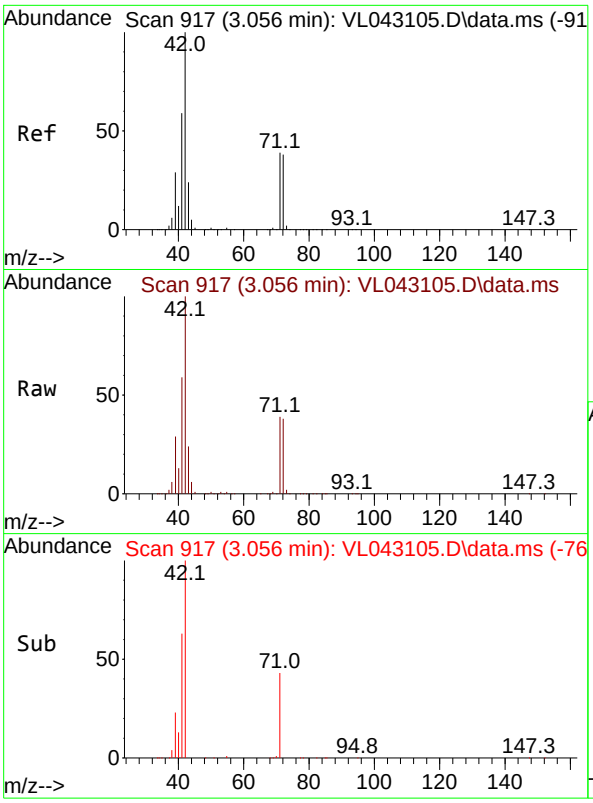


#40
1,4-Dioxane
Concen: 9.153 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 88 Resp: 48201

Ion	Ratio	Lower	Upper
88	100		
58	74.3	61.1	91.7
43	33.3	24.0	36.0
57	0.0	0.0	0.0

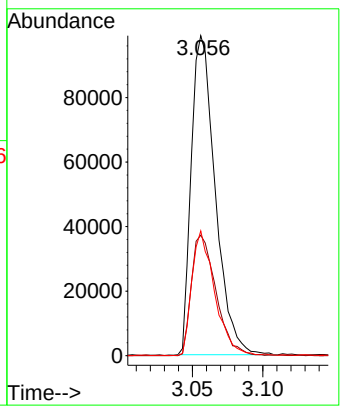




#41
Tetrahydrofuran
Concen: 9.076 ppbv
RT: 3.056 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 42 Resp: 11706

Ion	Ratio	Lower	Upper
42	100		
72	39.1	31.3	46.9
71	37.8	30.4	45.6



Instrument :
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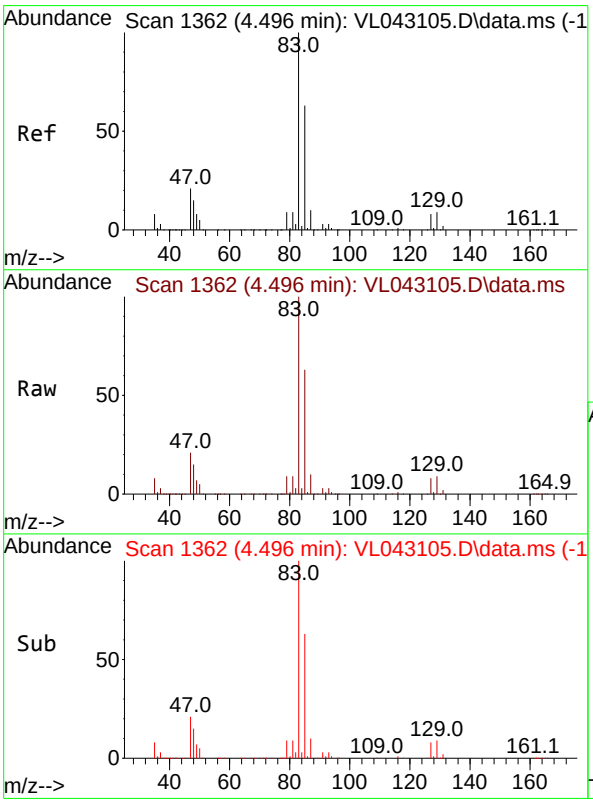
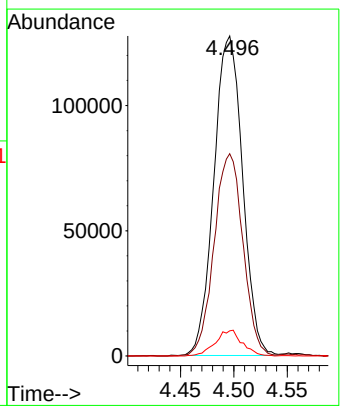
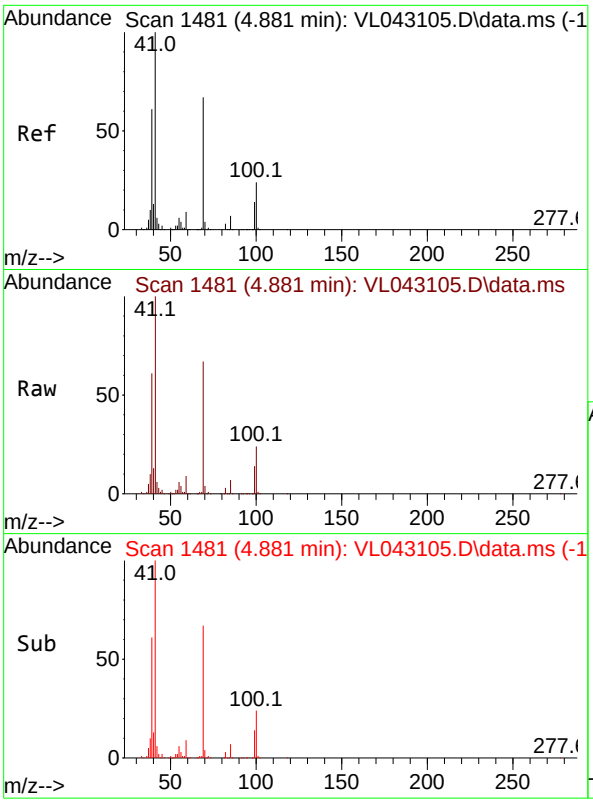


#42
Bromodichloromethane
Concen: 9.286 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 83 Resp: 238353

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	7.9	6.3	9.5

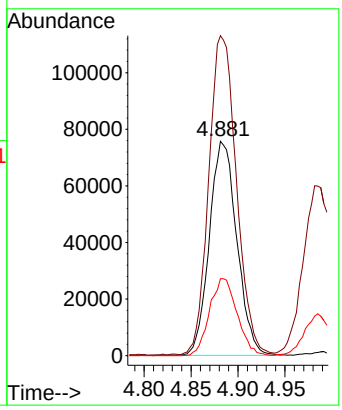




#43
Methyl Methacrylate
Concen: 9.371 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 69 Resp: 15392

Ion	Ratio	Lower	Upper
69	100		
41	149.8	120.5	180.7
100	36.2	29.0	43.4



Instrument :
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ClientSampleId :
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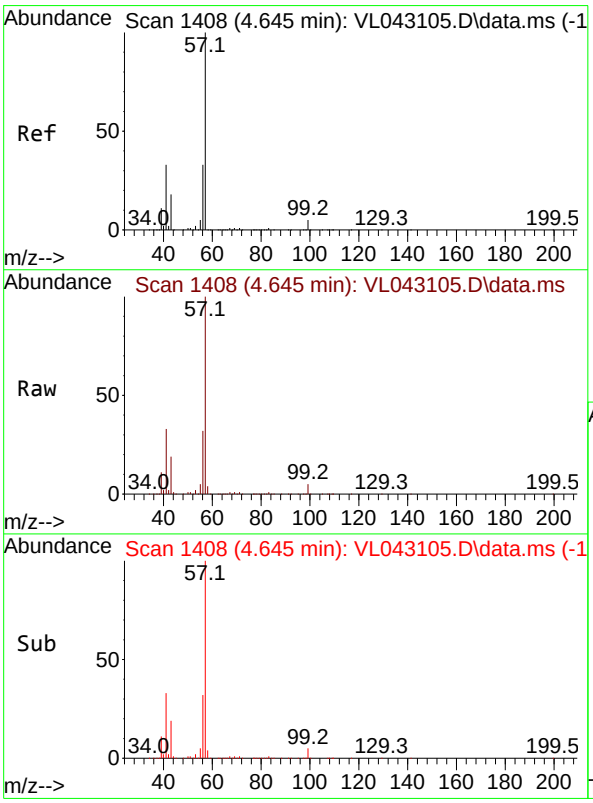
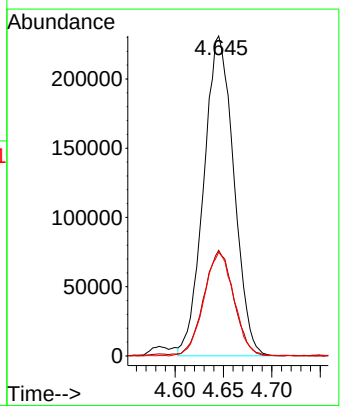
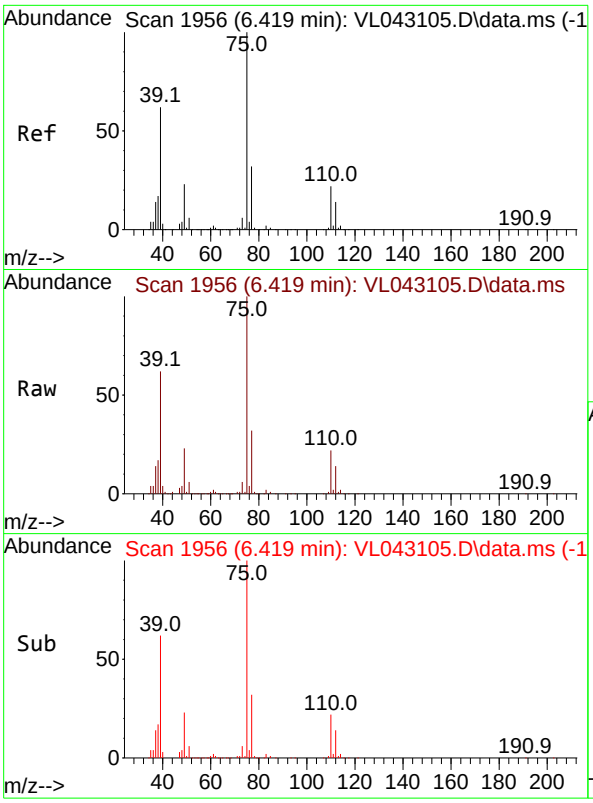


#44
2,2,4-Trimethylpentane
Concen: 9.273 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 57 Resp: 499148

Ion	Ratio	Lower	Upper
57	100		
41	33.2	26.3	39.5
56	32.1	25.9	38.9

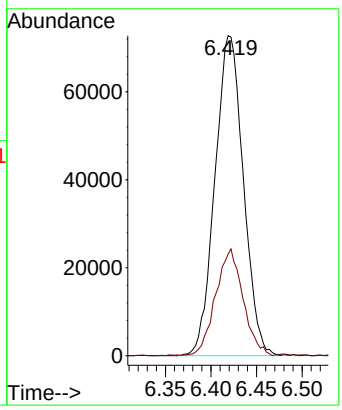




#45
t-1,3-Dichloropropene
Concen: 9.620 ppbv
RT: 6.419 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 75 Resp: 15785

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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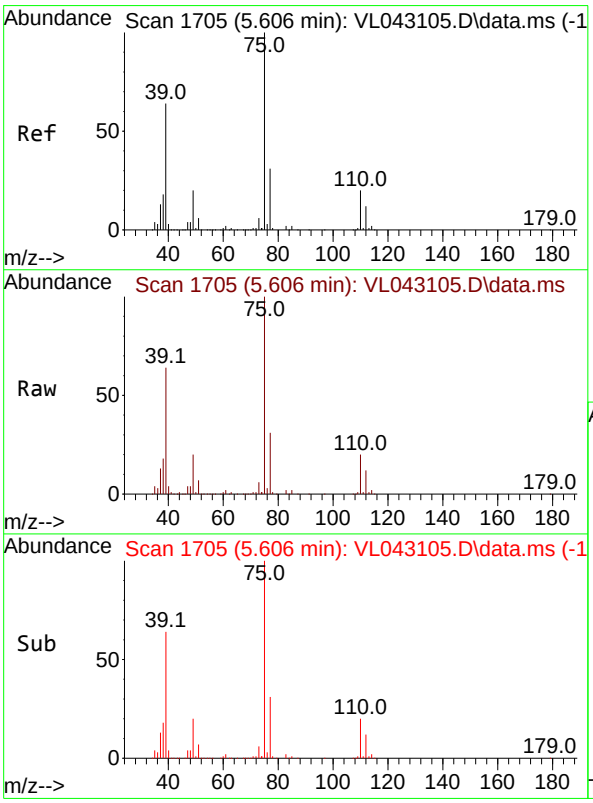
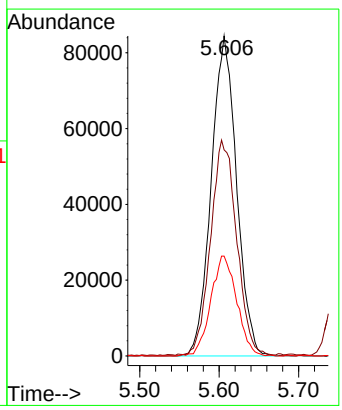
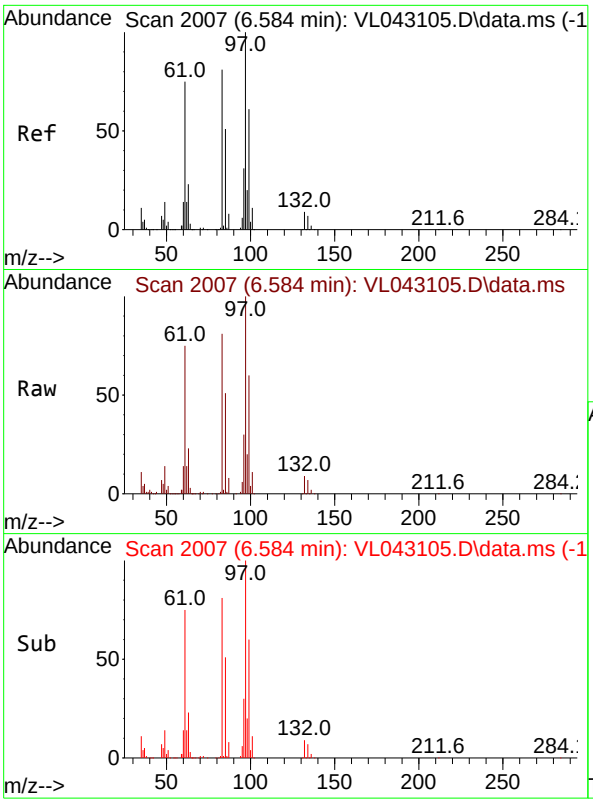


#46
cis-1,3-Dichloropropene
Concen: 9.525 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 75 Resp: 186533

Ion	Ratio	Lower	Upper
75	100		
39	63.8	51.0	76.6
77	31.2	25.0	37.4

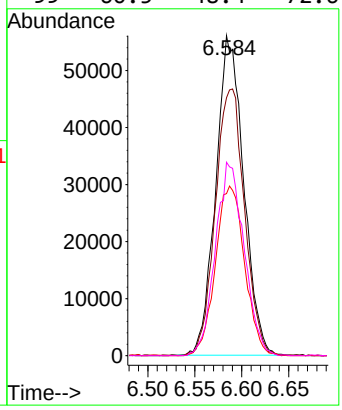




#47
1,1,2-Trichloroethane
Concen: 9.082 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 97 Resp: 11541

Ion	Ratio	Lower	Upper
97	100		
83	80.7	64.6	96.8
85	50.7	40.6	60.8
99	60.5	48.4	72.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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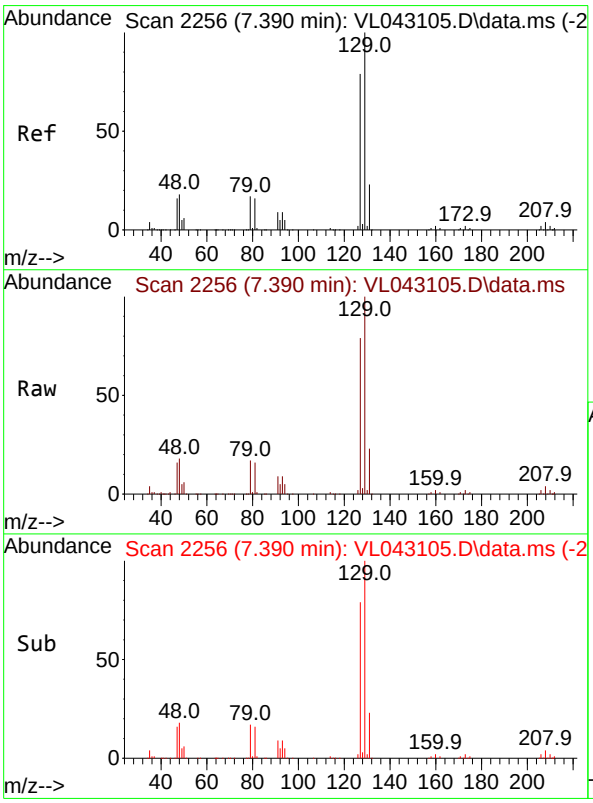
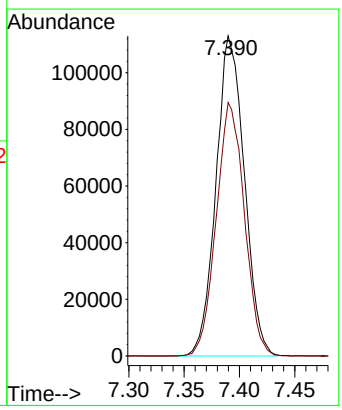
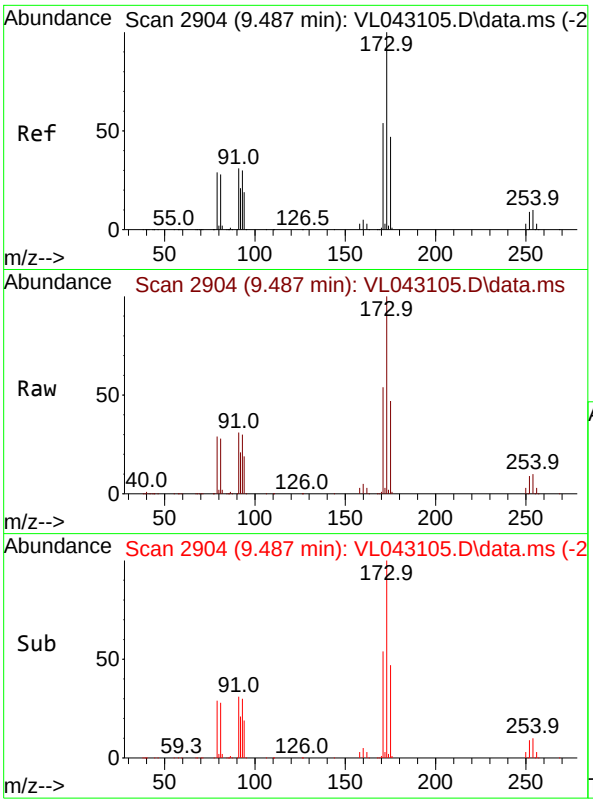


#48
Dibromochloromethane
Concen: 9.476 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:129 Resp: 201349

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9

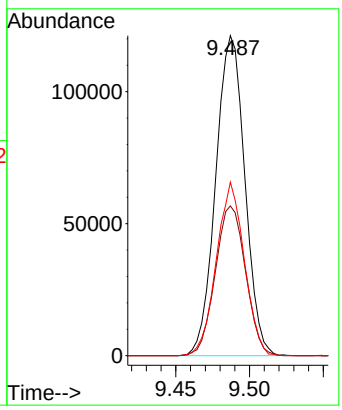




#49
Bromoform
Concen: 9.633 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:173 Resp: 16637

Ion	Ratio	Lower	Upper
173	100		
175	48.5	38.8	58.2
171	52.1	41.7	62.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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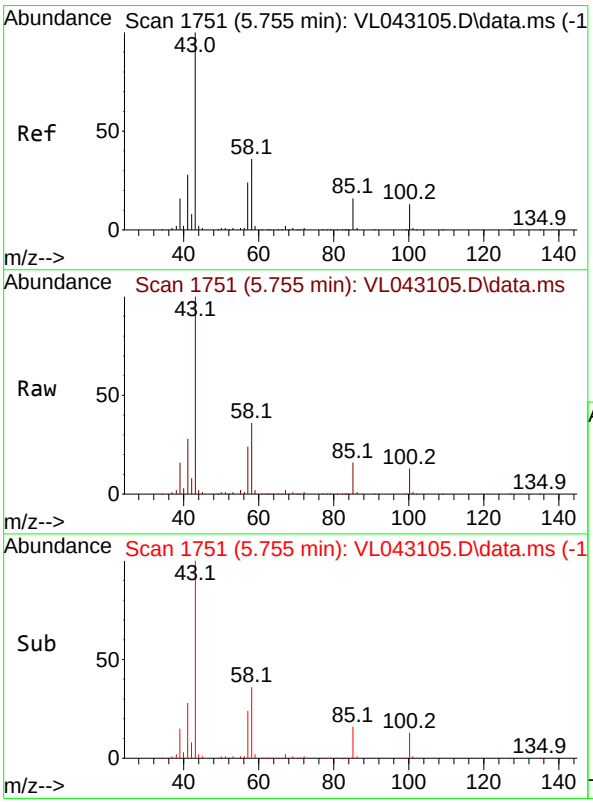
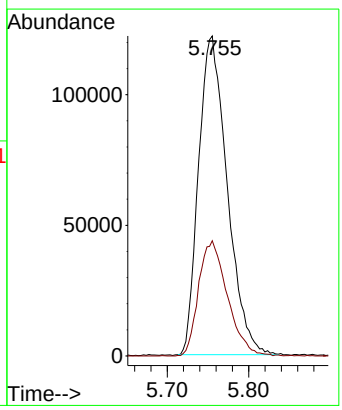
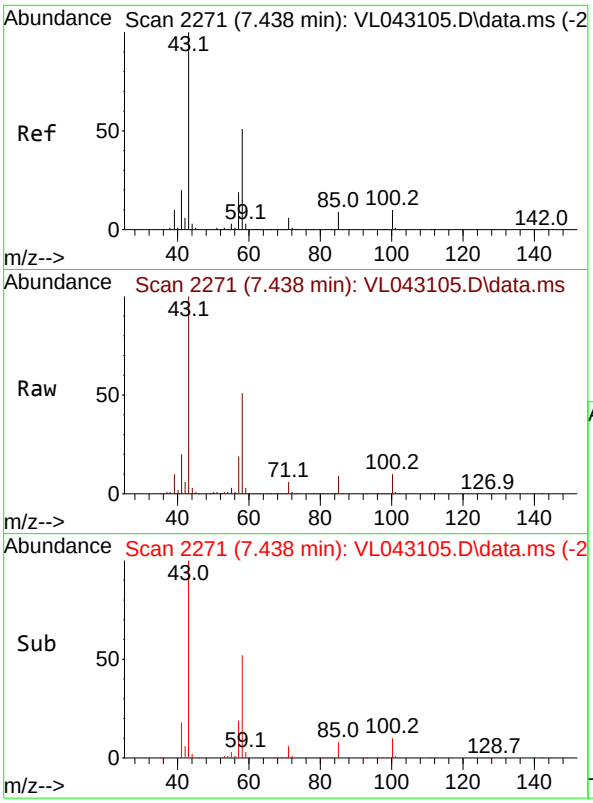


#50
4-Methyl-2-Pentanone
Concen: 9.362 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 298401

Ion	Ratio	Lower	Upper
43	100		
58	36.3	29.1	43.7

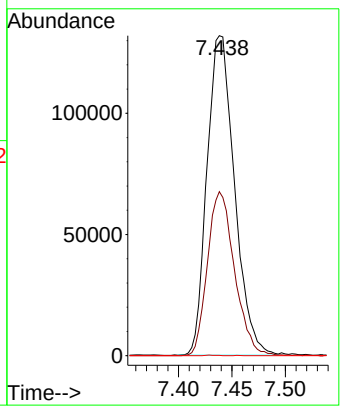




#51
2-Hexanone
Concen: 9.940 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 23639

Ion	Ratio	Lower	Upper
43	100		
58	50.6	40.4	60.6
98	0.1	0.1	0.1



Instrument :
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ClientSampleId :
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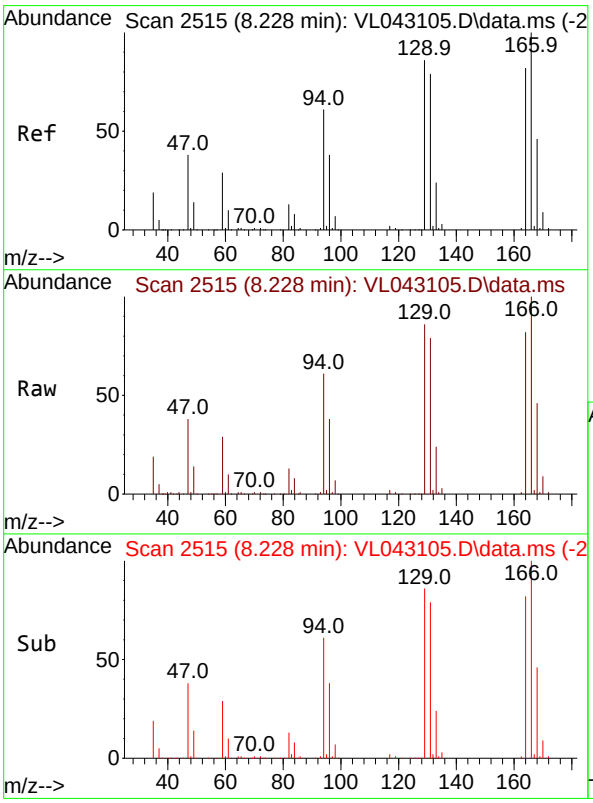
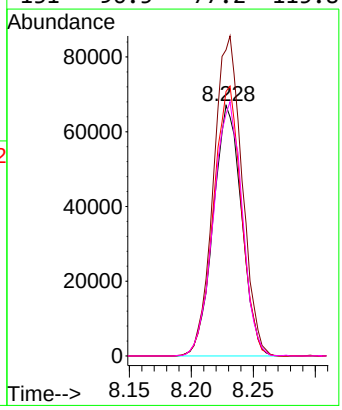
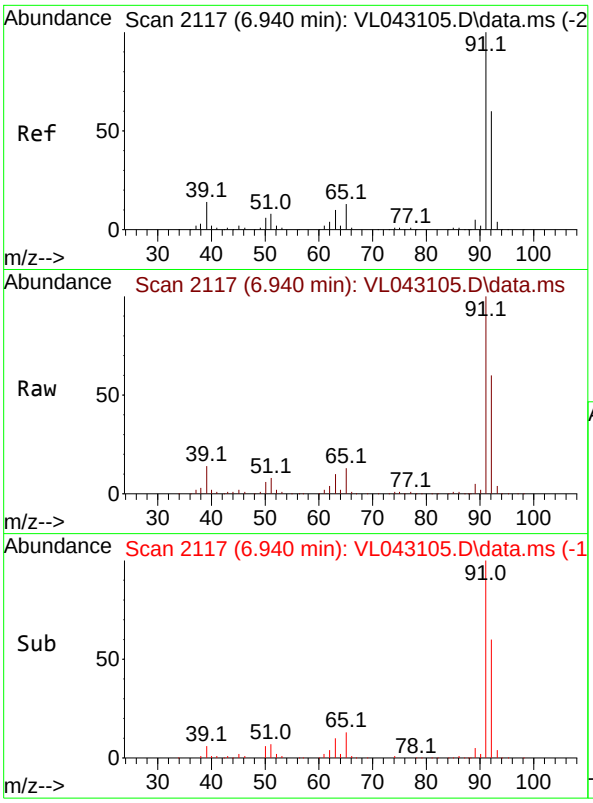


#52
Tetrachloroethene
Concen: 9.192 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:164 Resp: 106710

Ion	Ratio	Lower	Upper
164	100		
166	122.0	97.6	146.4
129	105.6	84.5	126.7
131	96.5	77.2	115.8

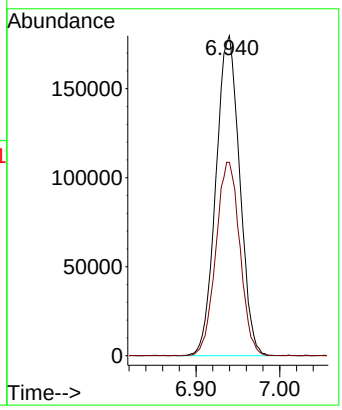




#53
Toluene
Concen: 9.266 ppbv
RT: 6.940 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 35400

Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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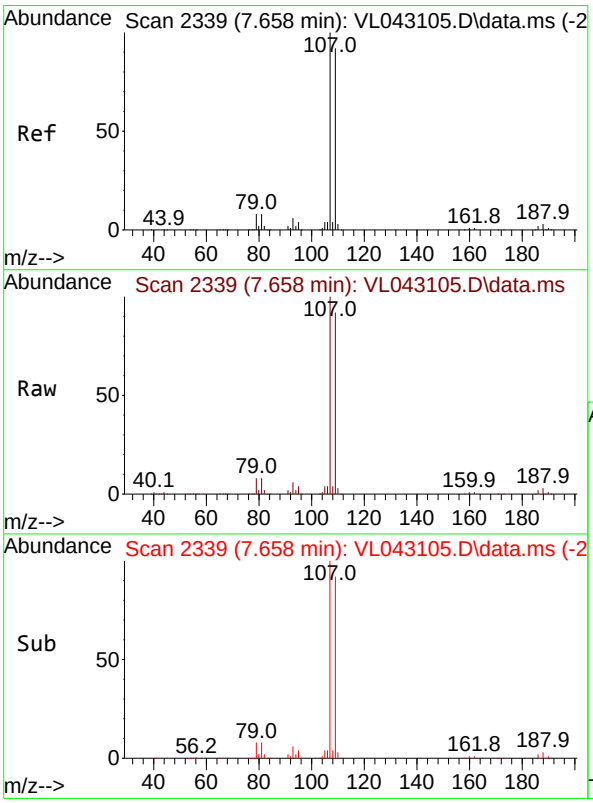
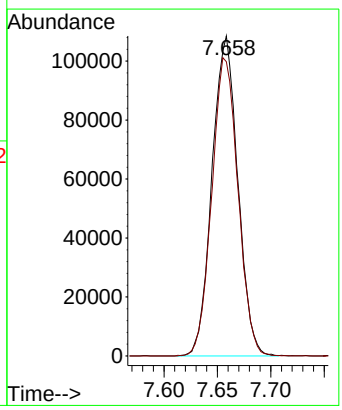
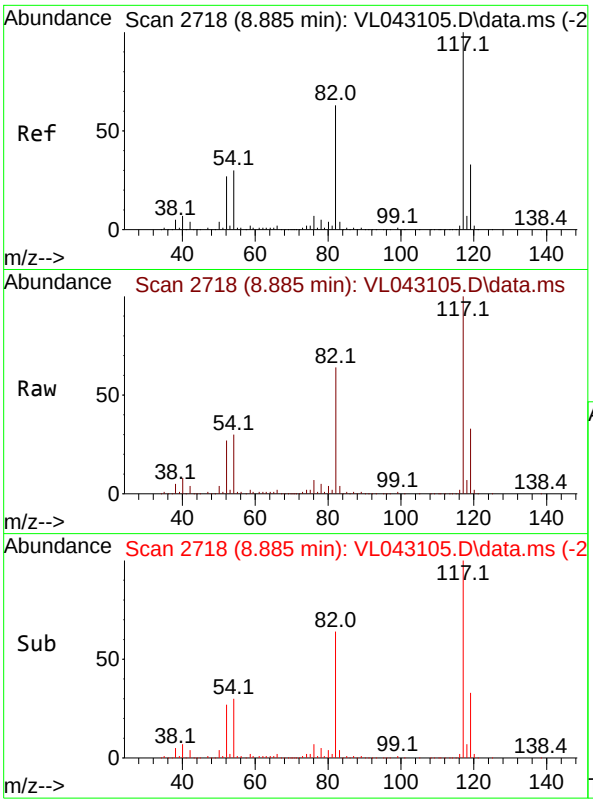


#54
1,2-Dibromoethane
Concen: 9.080 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:107 Resp: 182074

Ion	Ratio	Lower	Upper
107	100		
109	91.8	73.4	110.2

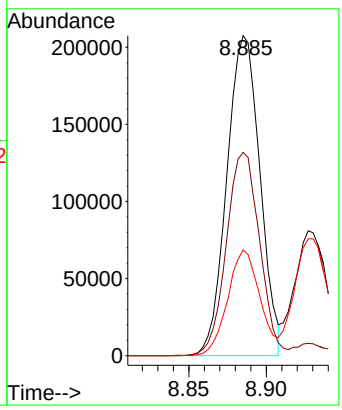




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:117 Resp: 30923

Ion	Ratio	Lower	Upper
117	100		
82	67.3	53.8	80.8
119	33.4	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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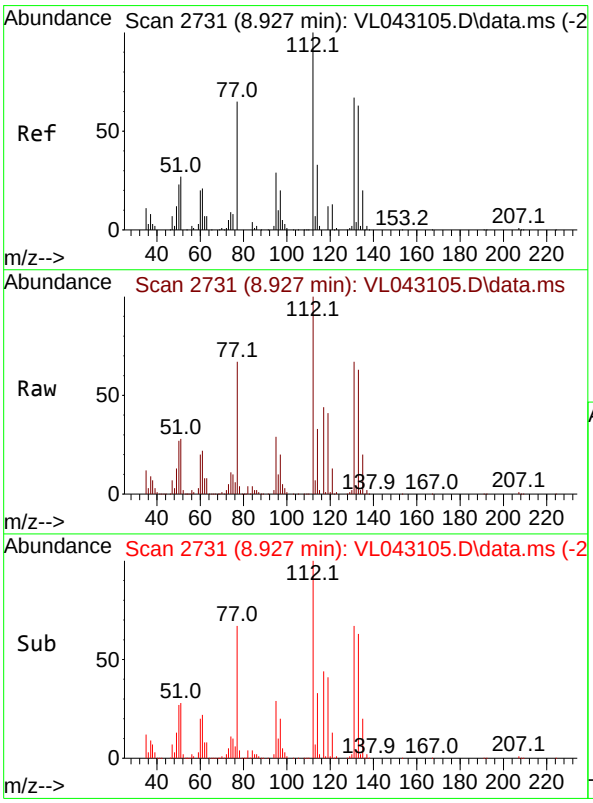
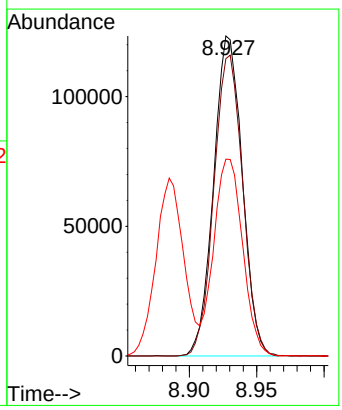
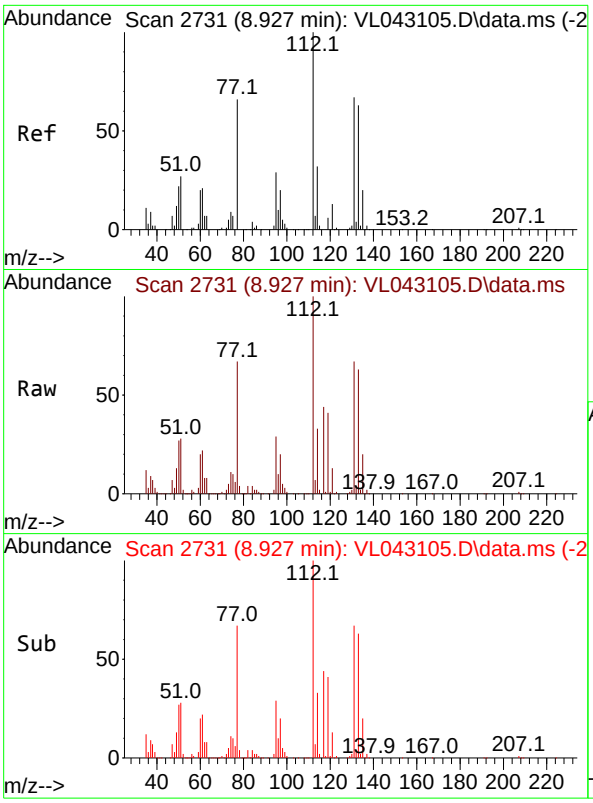


#56
1,1,1,2-Tetrachloroethane
Concen: 9.367 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:131 Resp: 182585

Ion	Ratio	Lower	Upper
131	100		
133	94.6	75.7	113.5
119	63.3	50.6	76.0

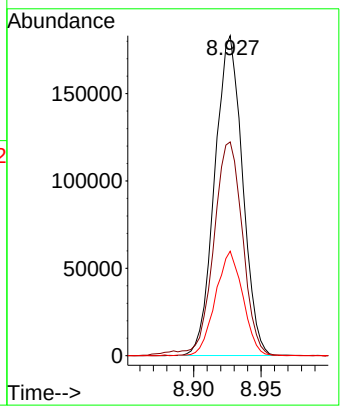




#57
Chlorobenzene
Concen: 9.076 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:112 Resp: 26256

Ion	Ratio	Lower	Upper
112	100		
77	66.6	53.3	79.9
114	32.5	29.3	35.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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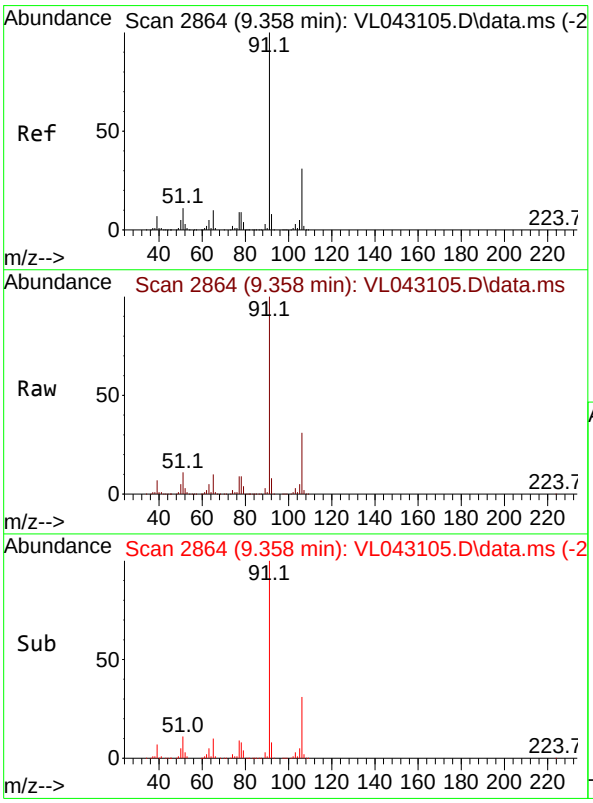
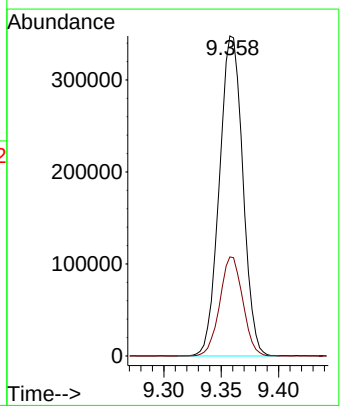
Supervised By :Mahesh Dadoda 10/16/2025

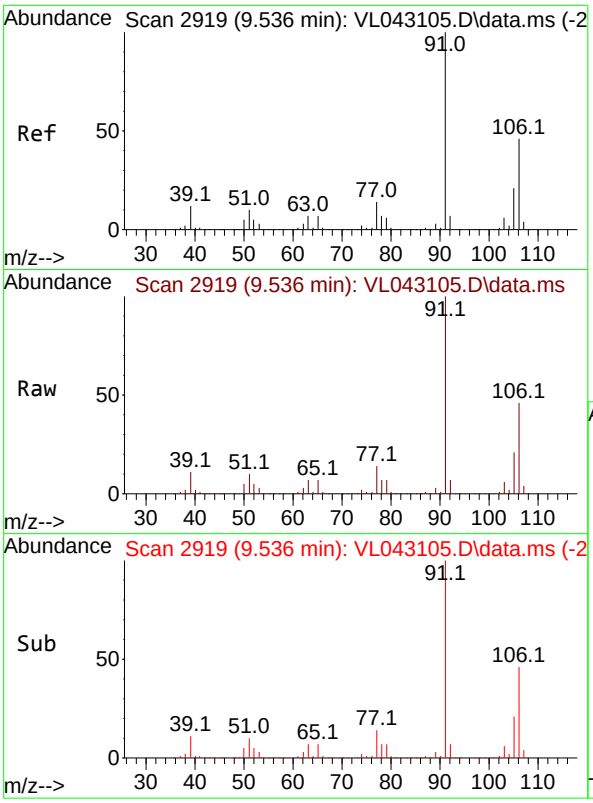


#58
Ethyl Benzene
Concen: 9.241 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 494344

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.8	37.2

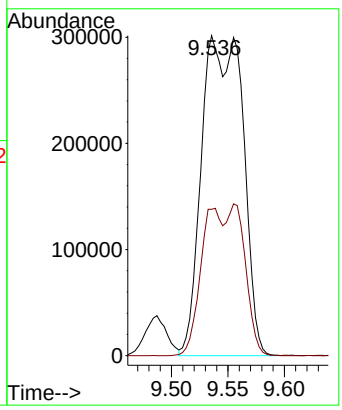




#59
m/p-Xylene
Concen: 18.067 ppbv m
RT: 9.536 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 76537

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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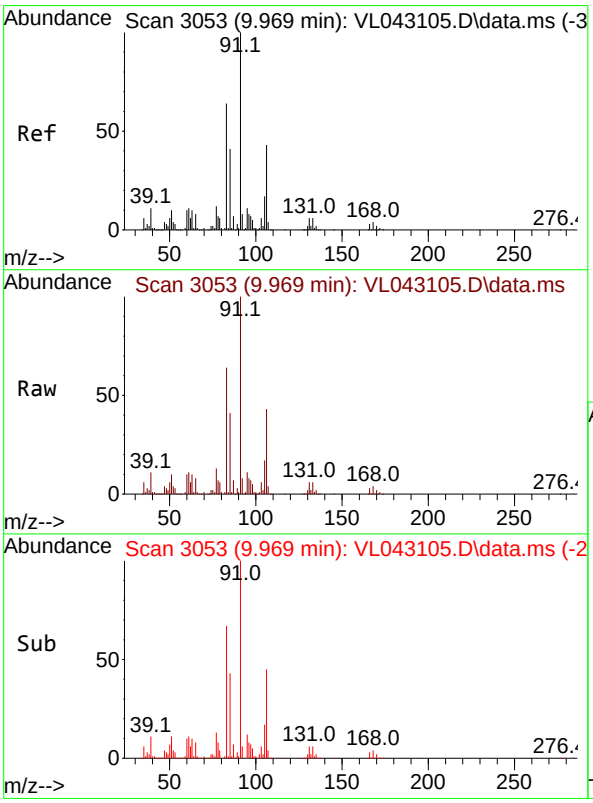
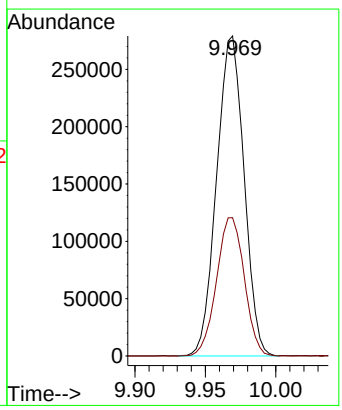
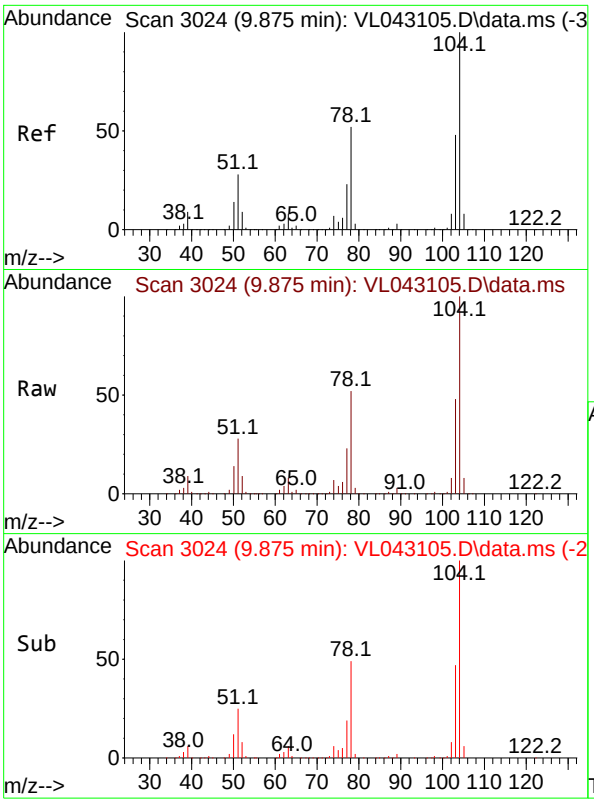


#60
o-Xylene
Concen: 9.053 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 378462

Ion	Ratio	Lower	Upper
91	100		
106	43.9	21.9	65.8

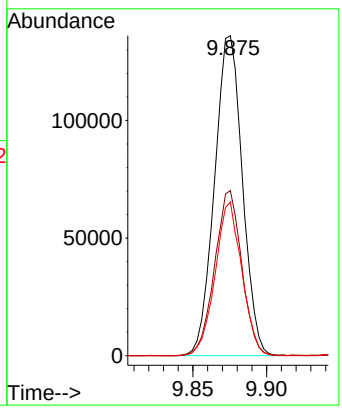




#61
Styrene
Concen: 9.477 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:104 Resp: 17885

Ion	Ratio	Lower	Upper
104	100		
78	50.2	40.2	60.2
103	46.1	36.9	55.3



Instrument :
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ClientSampleId :
VSTDICCC010

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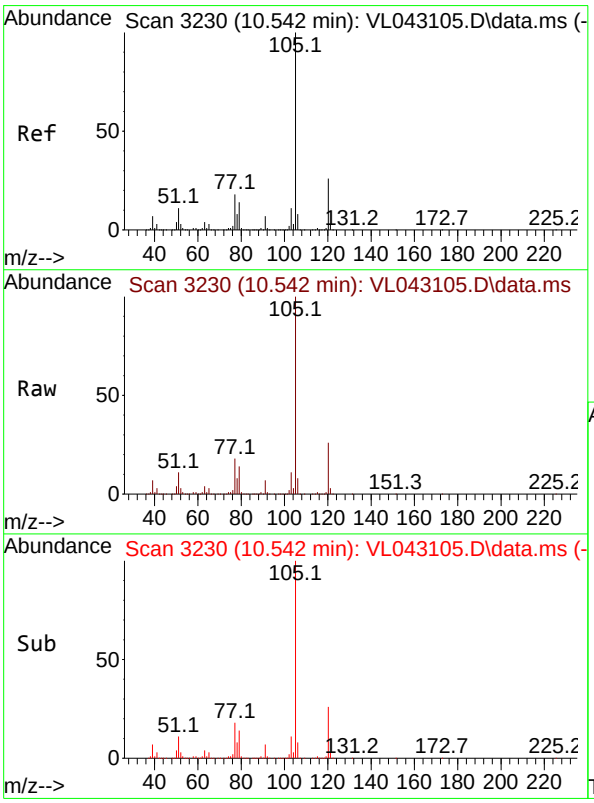
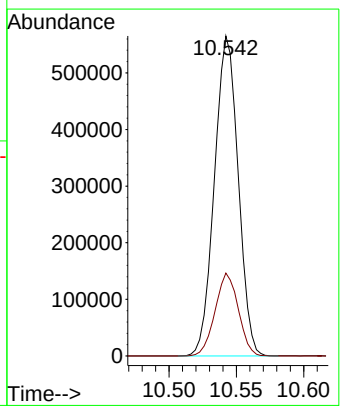
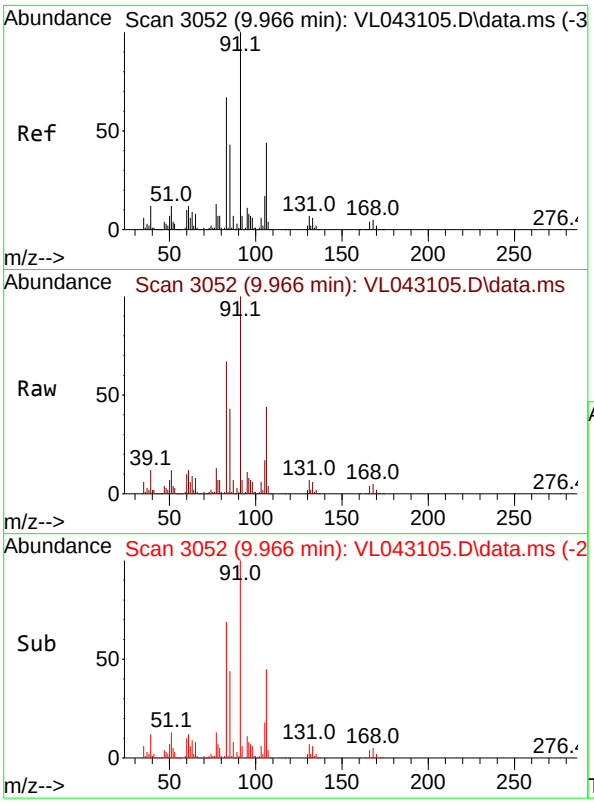


#62
Isopropylbenzene
Concen: 9.173 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 692992

Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.2	30.4

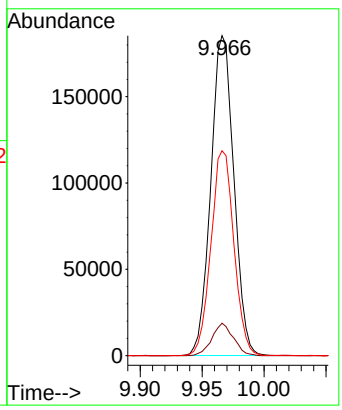




#63
1,1,2,2-Tetrachloroethane
Concen: 8.582 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 83 Resp: 24024

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.0	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
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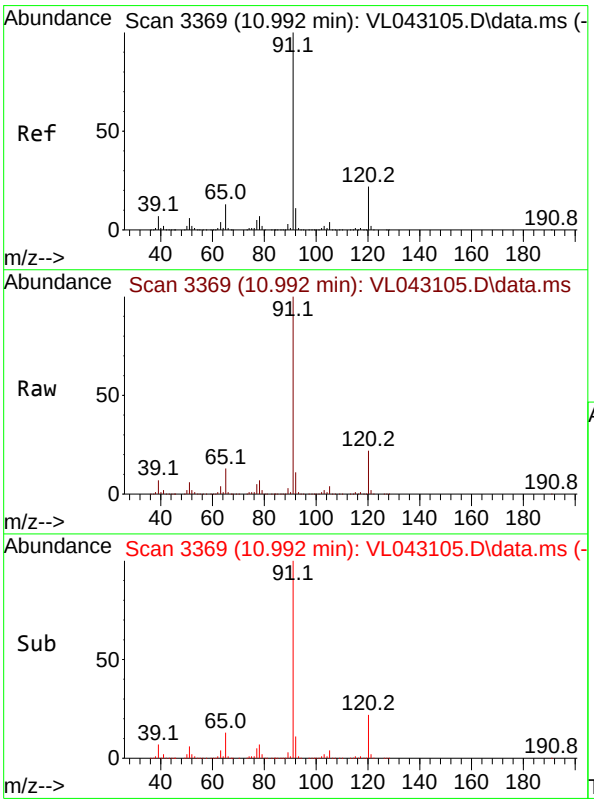
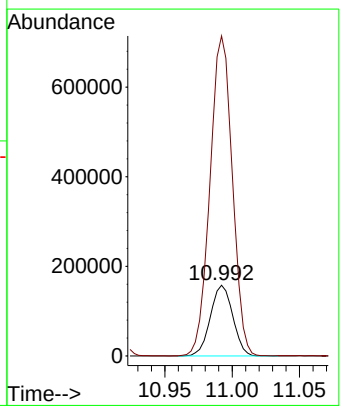
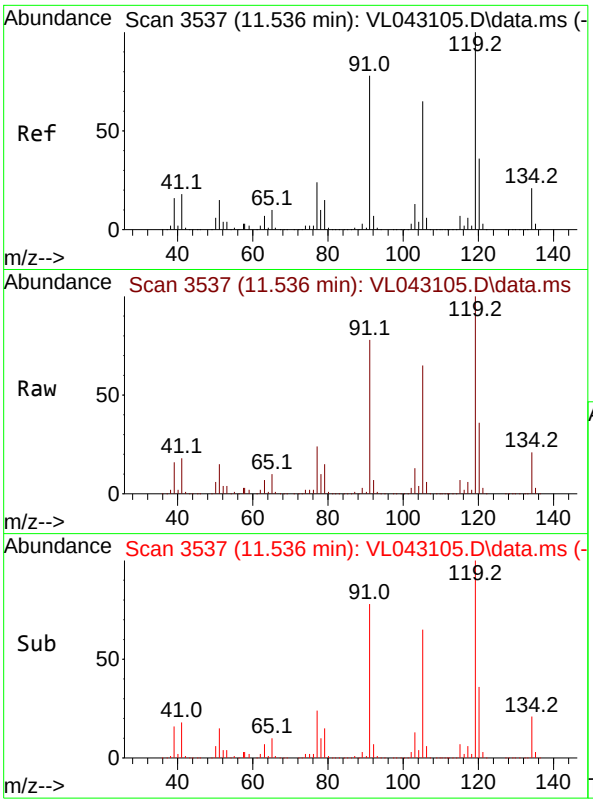


#64
n-propylbenzene
Concen: 9.112 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:120 Resp: 182233

Ion	Ratio	Lower	Upper
120	100		
91	452.0	361.6	542.4

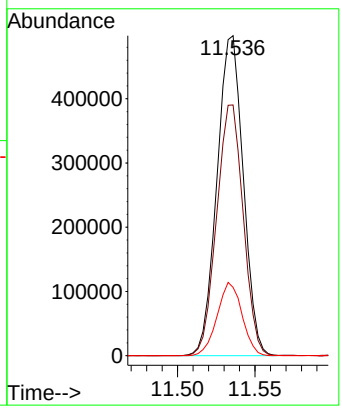




#65
tert-Butylbenzene
Concen: 8.810 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:119 Resp: 58775

Ion	Ratio	Lower	Upper
119	100		
91	79.1	63.4	95.0
134	21.6	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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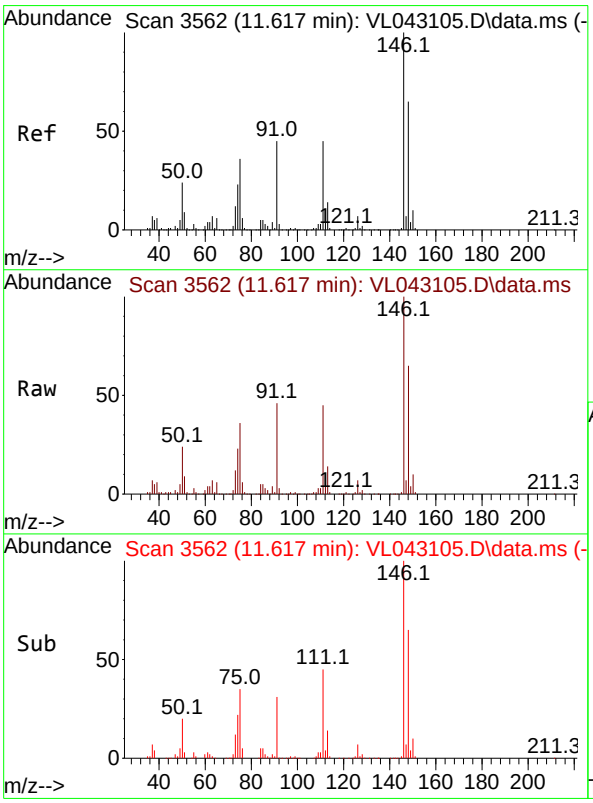
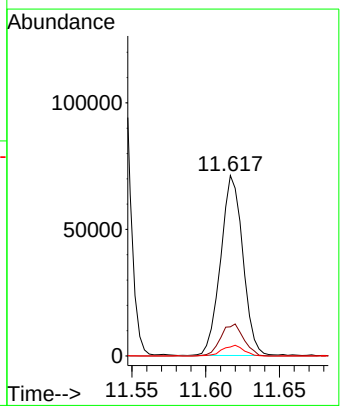
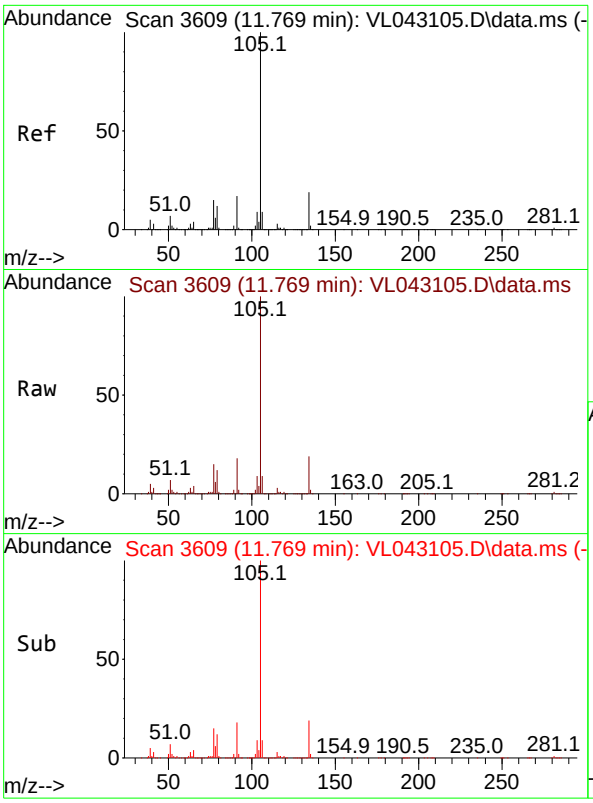


#66
Benzyl Chloride
Concen: 10.009 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 74574

Ion	Ratio	Lower	Upper
91	100		
126	18.3	14.6	22.0
128	5.7	4.6	6.8





#67
sec-Butylbenzene
Concen: 8.809 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 83405

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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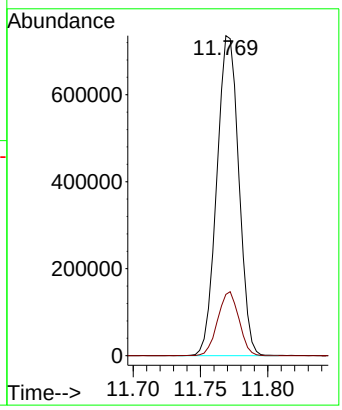
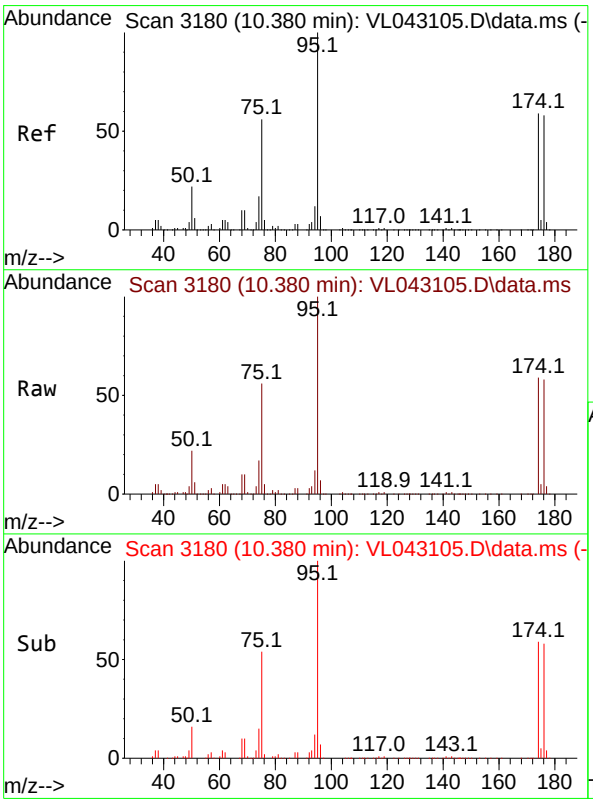
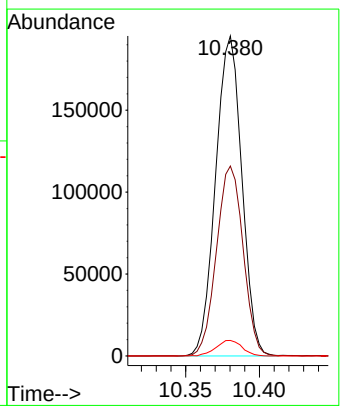


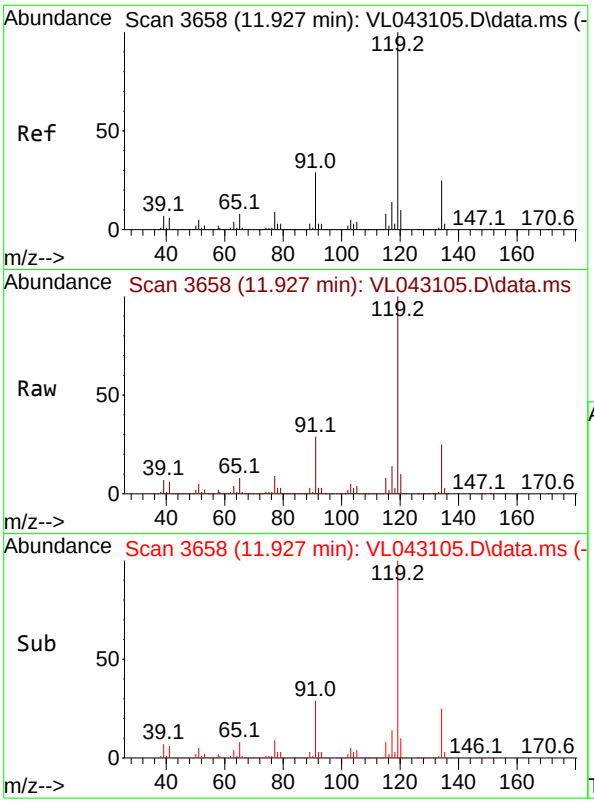


#68
1-Bromo-4-Fluorobenzene
Concen: 10.046 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 95 Resp: 241468

Ion	Ratio	Lower	Upper
95	100		
174	60.4	48.3	72.5
175	4.8	3.8	5.8

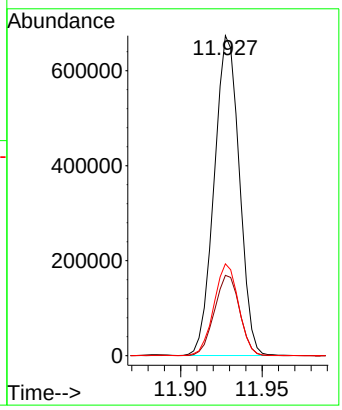




#69
p-Isopropyltoluene
Concen: 8.955 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:119 Resp: 72043

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	28.3	22.6	33.8



Instrument :
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ClientSampleId :
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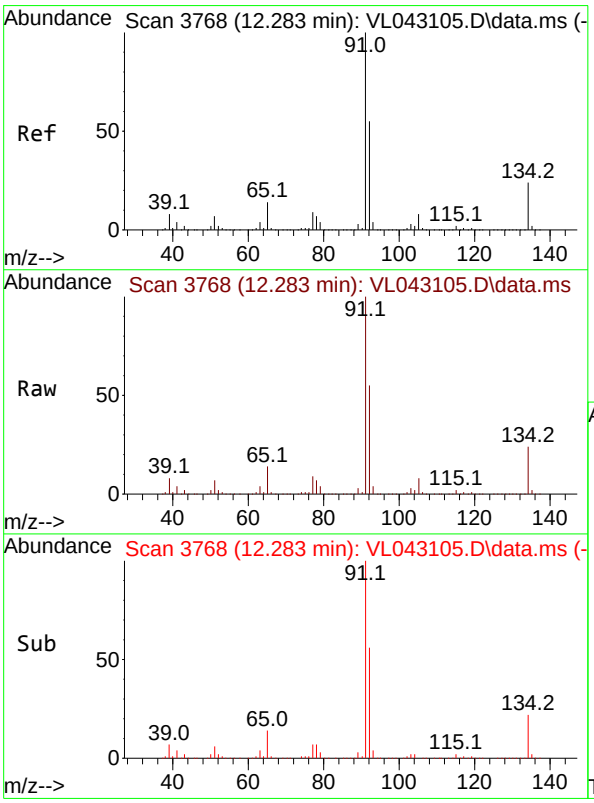
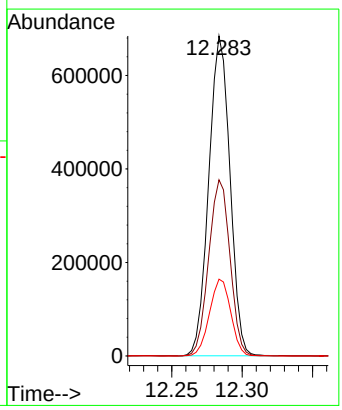
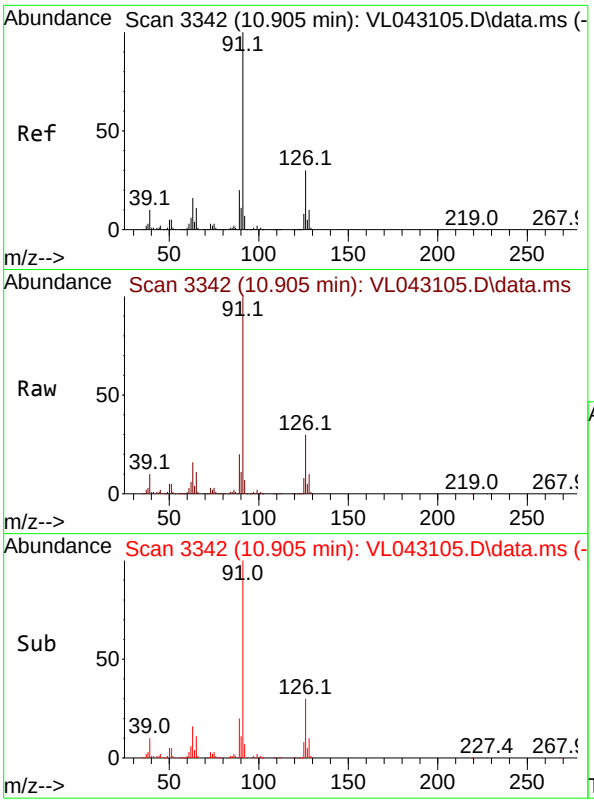


#70
n-Butylbenzene
Concen: 9.053 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 717743

Ion	Ratio	Lower	Upper
91	100		
92	55.6	44.5	66.7
134	24.1	19.3	28.9

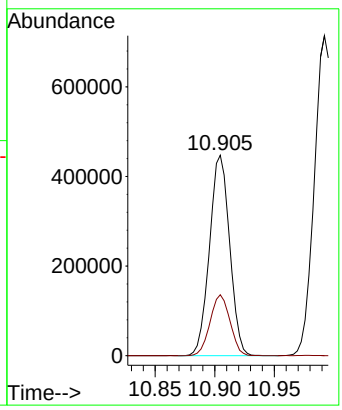




#71
2-Chlorotoluene
Concen: 9.111 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 52496

Ion	Ratio	Lower	Upper
91	100		
126	30.0	12.0	48.0



Instrument :
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ClientSampleId :
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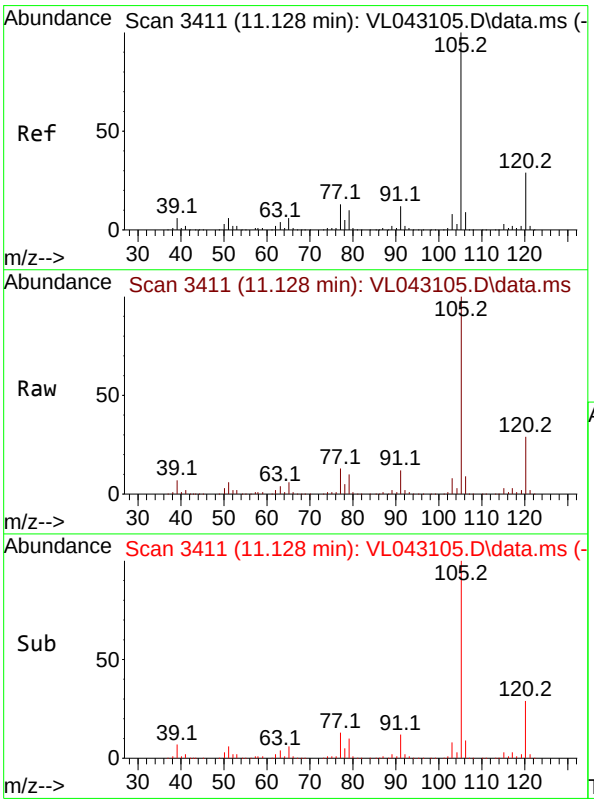
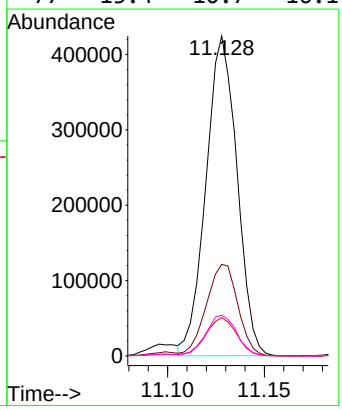
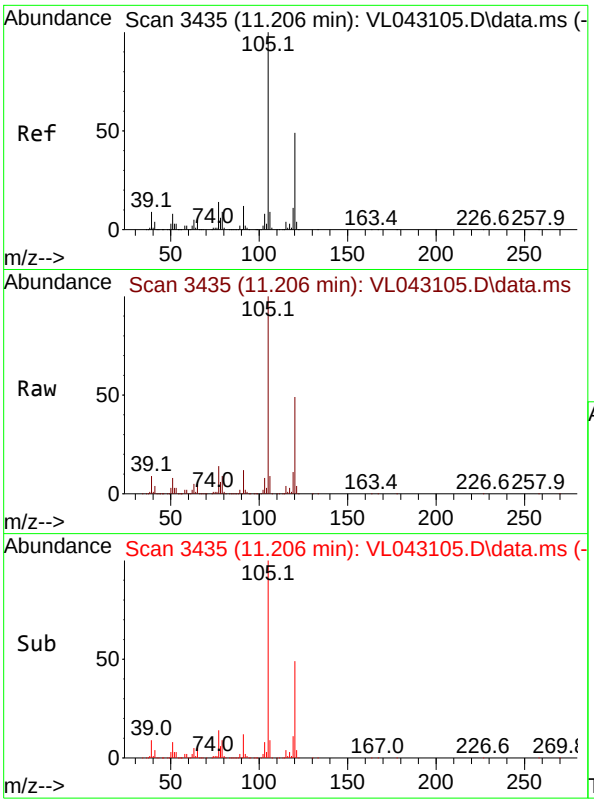


#72
4-Ethyltoluene
Concen: 9.202 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 473042

Ion	Ratio	Lower	Upper
105	100		
120	30.3	24.2	36.4
91	12.5	10.0	15.0
77	13.4	10.7	16.1

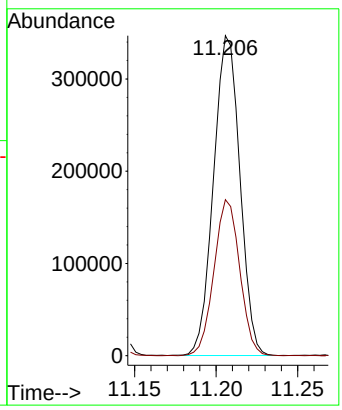




#73
1,3,5-Trimethylbenzene
Concen: 9.195 ppbv
RT: 11.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 38981

Ion	Ratio	Lower	Upper
105	100		
120	48.8	39.0	58.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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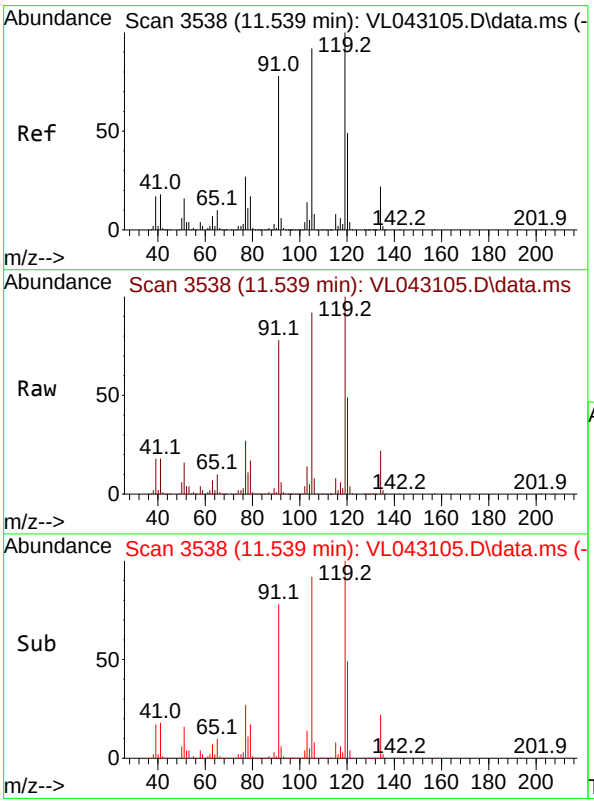
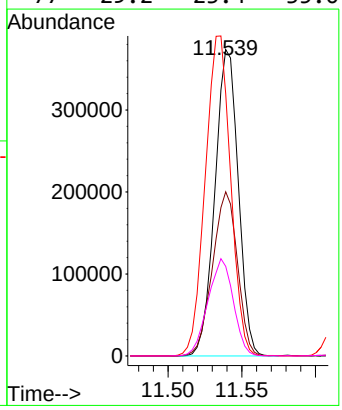
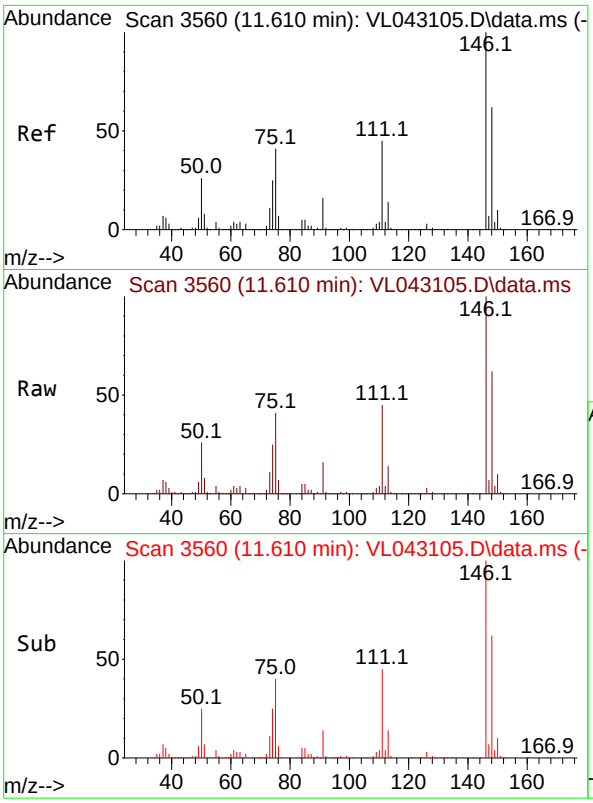


#74
1,2,4-Trimethylbenzene
Concen: 8.676 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 411619

Ion	Ratio	Lower	Upper
105	100		
120	53.5	42.8	64.2
91	85.4	68.3	102.5
77	29.2	23.4	35.0

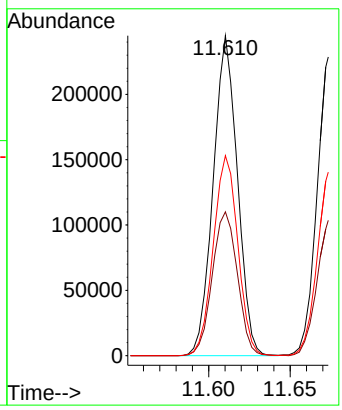




#75
1,3-Dichlorobenzene
Concen: 9.192 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:146 Resp: 25292

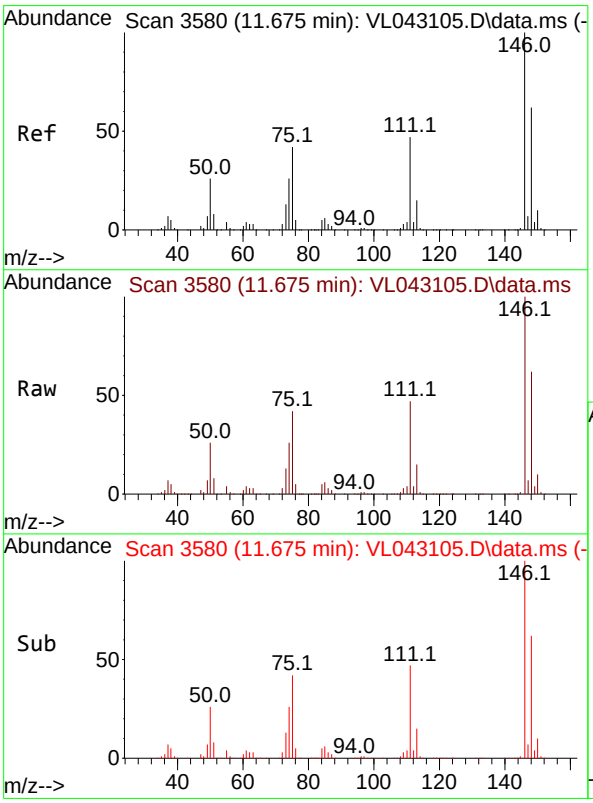
Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.3	69.9
148	63.3	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

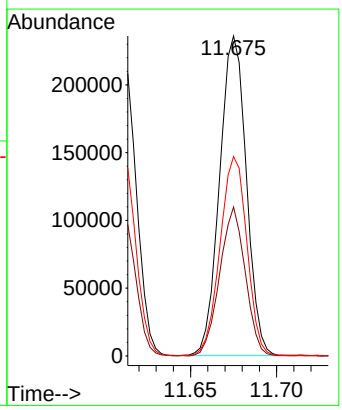
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

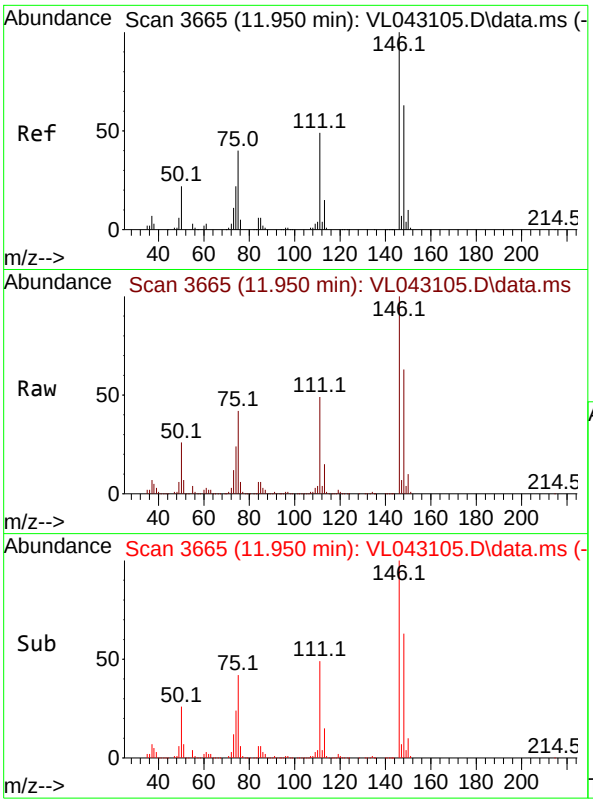


#76
1,4-Dichlorobenzene
Concen: 9.171 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:146 Resp: 254461

Ion	Ratio	Lower	Upper
146	100		
111	44.7	22.4	67.0
148	63.1	31.6	94.7

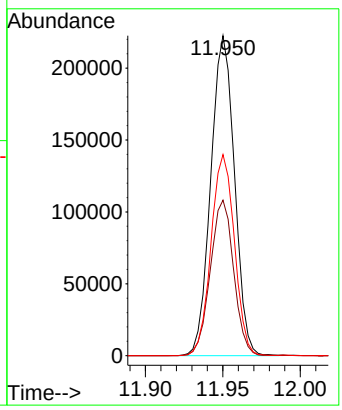




#77
1,2-Dichlorobenzene
Concen: 8.893 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:146 Resp: 23672

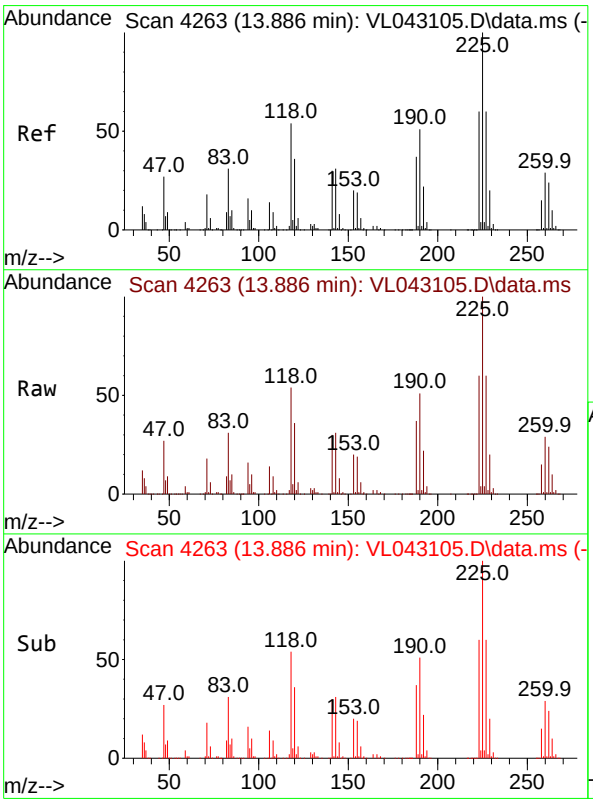
Ion	Ratio	Lower	Upper
146	100		
111	48.0	24.0	72.0
148	62.2	31.1	93.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

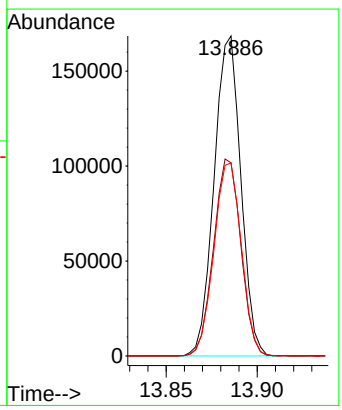
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

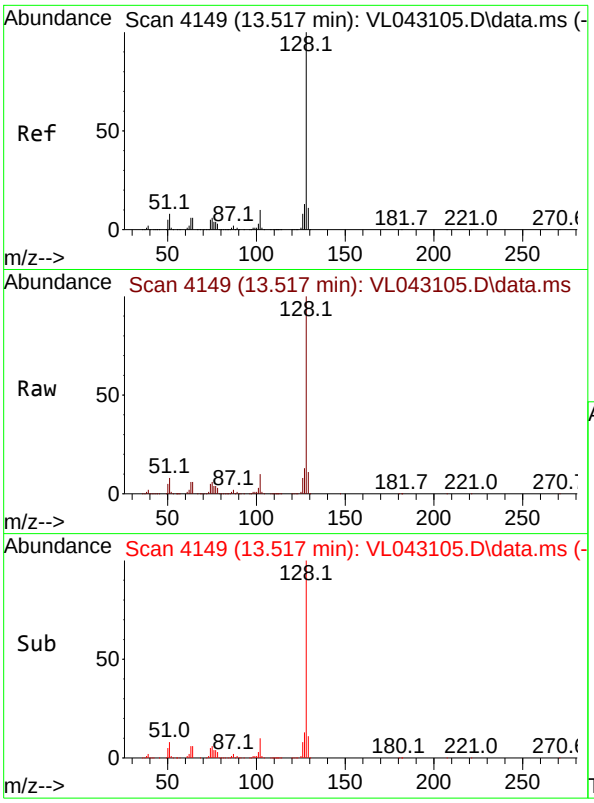


#78
Hexachloro-1,3-Butadiene
Concen: 8.334 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:225 Resp: 171777

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.4
227	62.0	49.6	74.4

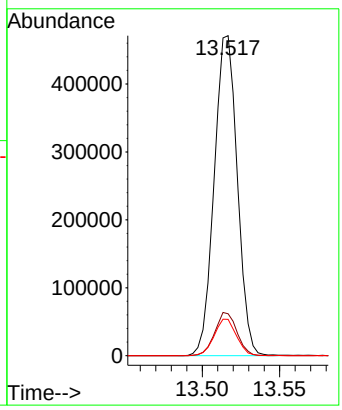




#79
Naphthalene
Concen: 9.972 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:128 Resp: 48867

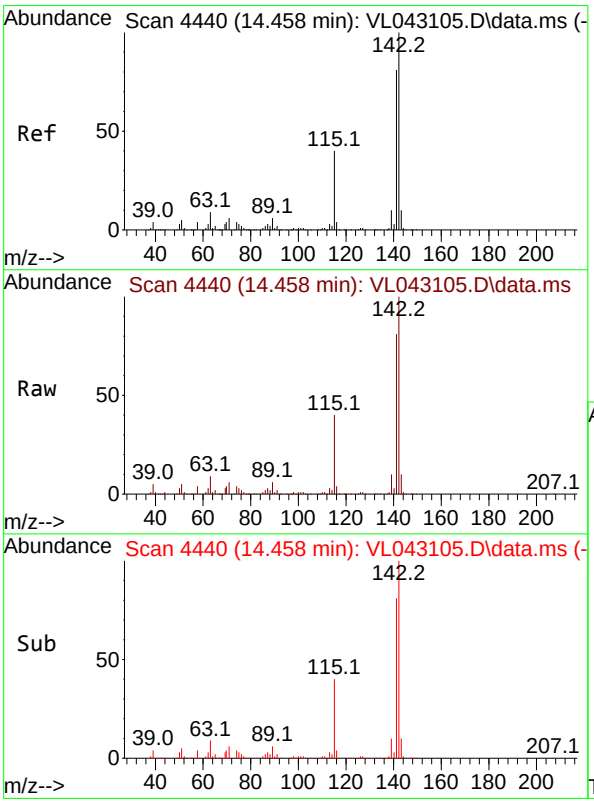
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	11.4	9.1	13.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

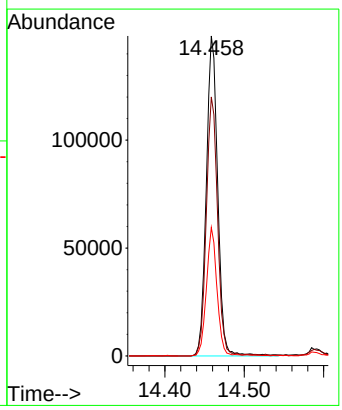
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

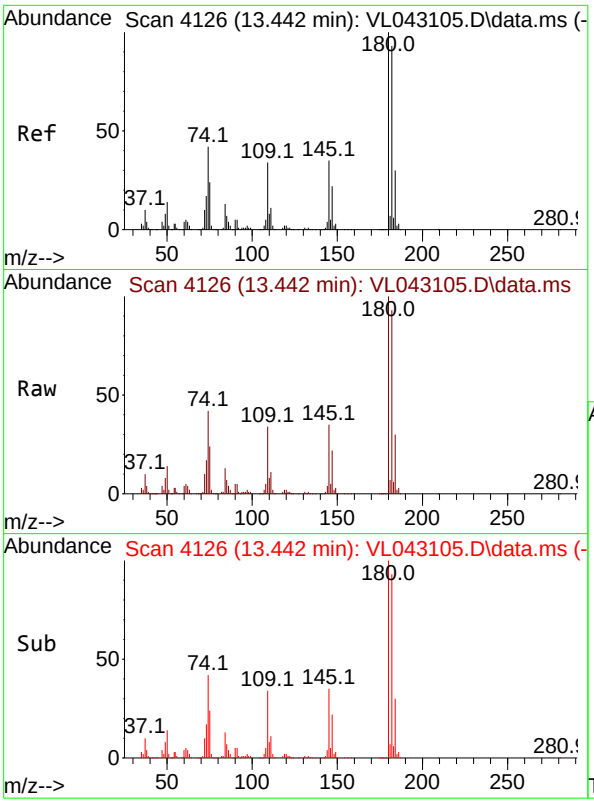


#80
Naphthalene,2-methyl-
Concen: 11.431 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:142 Resp: 147897

Ion	Ratio	Lower	Upper
142	100		
141	80.8	64.6	97.0
115	37.8	30.2	45.4

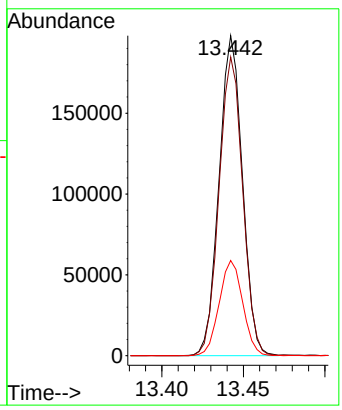




#81
1,2,4-Trichlorobenzene
Concen: 9.582 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:180 Resp: 19721

Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.5	113.3
184	29.9	23.9	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043106.D
Acq On : 14 Oct 2025 11:27
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:51:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.791	49	105309	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	342939	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	313603	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	244329	10.024	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	31189	2.083	ppbv		99
3) Chlorodifluoromethane	1.476	51	33217	2.050	ppbv		96
4) Chloromethane	1.535	50	12185	2.054	ppbv		93
5) Vinyl Chloride	1.583	62	11114	1.911	ppbv		92
6) Bromomethane	1.671	94	6672	2.092	ppbv		95
7) Chloroethane	1.706	64	5008	2.106	ppbv		97
8) Dichlorotetrafluoroethane	1.557	85	25897	2.140	ppbv		100
9) Propene	1.486	41	15177	2.112	ppbv		94
10) Heptane	4.982	43	42790	2.078	ppbv		97
11) Trichlorofluoromethane	1.881	101	31114	2.125	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.143	101	25091	2.128	ppbv		100
13) Ethanol	1.722	45	6363	2.394	ppbv		95
14) Bromoethene	1.784	108	9087	2.075	ppbv		97
15) Acetone	1.836	43	31756	2.225	ppbv		97
16) 1,3-Butadiene	1.612	39	13668	2.021	ppbv		99
17) tert-Butyl alcohol	2.043	59	40738	2.091	ppbv		96
18) 1,1-Dichloroethene	2.036	96	10794	2.100	ppbv		99
19) Isopropyl Alcohol	1.888	45	18326	2.073	ppbv	#	40
20) Methylene Chloride	2.062	84	10694	1.906	ppbv	#	82
21) Allyl Chloride	2.098	41	21902	2.090	ppbv		93
22) trans-1,2-Dichloroethene	2.344	96	12511	2.036	ppbv		98
23) Vinyl Acetate	2.464	43	48282	2.322	ppbv	#	96
24) 1,1-Dichloroethane	2.412	63	25066	2.112	ppbv		99
25) Ethyl Acetate	2.836	43	74929	2.129	ppbv		99
26) Hexane	2.829	57	32595	2.010	ppbv		93
27) Carbon Disulfide	2.153	76	31705	2.134	ppbv		95
28) Methyl tert-Butyl Ether	2.441	73	16207	2.196	ppbv		98
29) Chloroform	2.849	83	48367	2.058	ppbv		99
30) Cyclohexane	3.859	84	29270	2.069	ppbv		99
31) cis-1,2-Dichloroethene	2.723	61	31925	2.061	ppbv		97
32) 1,1,1-Trichloroethane	3.370	97	51049	2.086	ppbv		98
34) 2-Butanone	2.558	43	48458	2.090	ppbv		99
35) Carbon Tetrachloride	3.765	117	51073	2.071	ppbv		97
36) Benzene	3.658	78	70156	2.172	ppbv		98
37) 1,2-Dichloroethane	3.218	62	38767	2.083	ppbv		100
38) Trichloroethene	4.551	130	27272	2.024	ppbv		96
39) 1,2-Dichloropropane	4.315	63	25427	2.151	ppbv		92
40) 1,4-Dioxane	4.584	88	11102m	2.101	ppbv		
41) Tetrahydrofuran	3.059	42	26362	2.037	ppbv		98
42) Bromodichloromethane	4.496	83	54224	2.106	ppbv	#	93
43) Methyl Methacrylate	4.878	69	33805	2.051	ppbv		99
44) 2,2,4-Trimethylpentane	4.642	57	115417	2.137	ppbv		99
45) t-1,3-Dichloropropene	6.416	75	34728	2.109	ppbv		90

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043106.D
Acq On : 14 Oct 2025 11:27
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:51:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	41365m	2.105	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	26359	2.067	ppbv	94
48) Dibromochloromethane	7.390	129	45751	2.146	ppbv	99
49) Bromoform	9.484	173	37314	2.153	ppbv	99
50) 4-Methyl-2-Pentanone	5.752	43	66811	2.089	ppbv	99
51) 2-Hexanone	7.438	43	50642	2.122	ppbv #	99
52) Tetrachloroethene	8.228	164	24183	2.076	ppbv	91
53) Toluene	6.937	91	80660	2.104	ppbv	99
54) 1,2-Dibromoethane	7.655	107	42320	2.103	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.924	131	41712	2.110	ppbv	94
57) Chlorobenzene	8.924	112	62714	2.138	ppbv	97
58) Ethyl Benzene	9.354	91	114403	2.109	ppbv	99
59) m/p-Xylene	9.532	91	185190m	4.311	ppbv	
60) o-Xylene	9.963	91	91223	2.152	ppbv	98
61) Styrene	9.872	104	41631	2.175	ppbv	98
62) Isopropylbenzene	10.539	105	164073	2.142	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	58510	2.061	ppbv	99
64) n-propylbenzene	10.989	120	43648	2.152	ppbv	96
65) tert-Butylbenzene	11.529	119	148300	2.192	ppbv	99
66) Benzyl Chloride	11.617	91	15656	2.072	ppbv	98
67) sec-Butylbenzene	11.769	105	210525	2.193	ppbv	99
69) p-Isopropyltoluene	11.928	119	180060	2.207	ppbv	99
70) n-Butylbenzene	12.284	91	178676	2.222	ppbv	98
71) 2-Chlorotoluene	10.902	91	126551	2.166	ppbv	99
72) 4-Ethyltoluene	11.125	105	113233	2.172	ppbv	98
73) 1,3,5-Trimethylbenzene	11.206	105	92650	2.155	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	104352	2.169	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	62709	2.247	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	60877	2.164	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	57304	2.123	ppbv	97
78) Hexachloro-1,3-Butadiene	13.883	225	46796	2.239	ppbv	98
79) Naphthalene	13.514	128	123642	2.488	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	32308	2.462	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	50394	2.414	ppbv	99

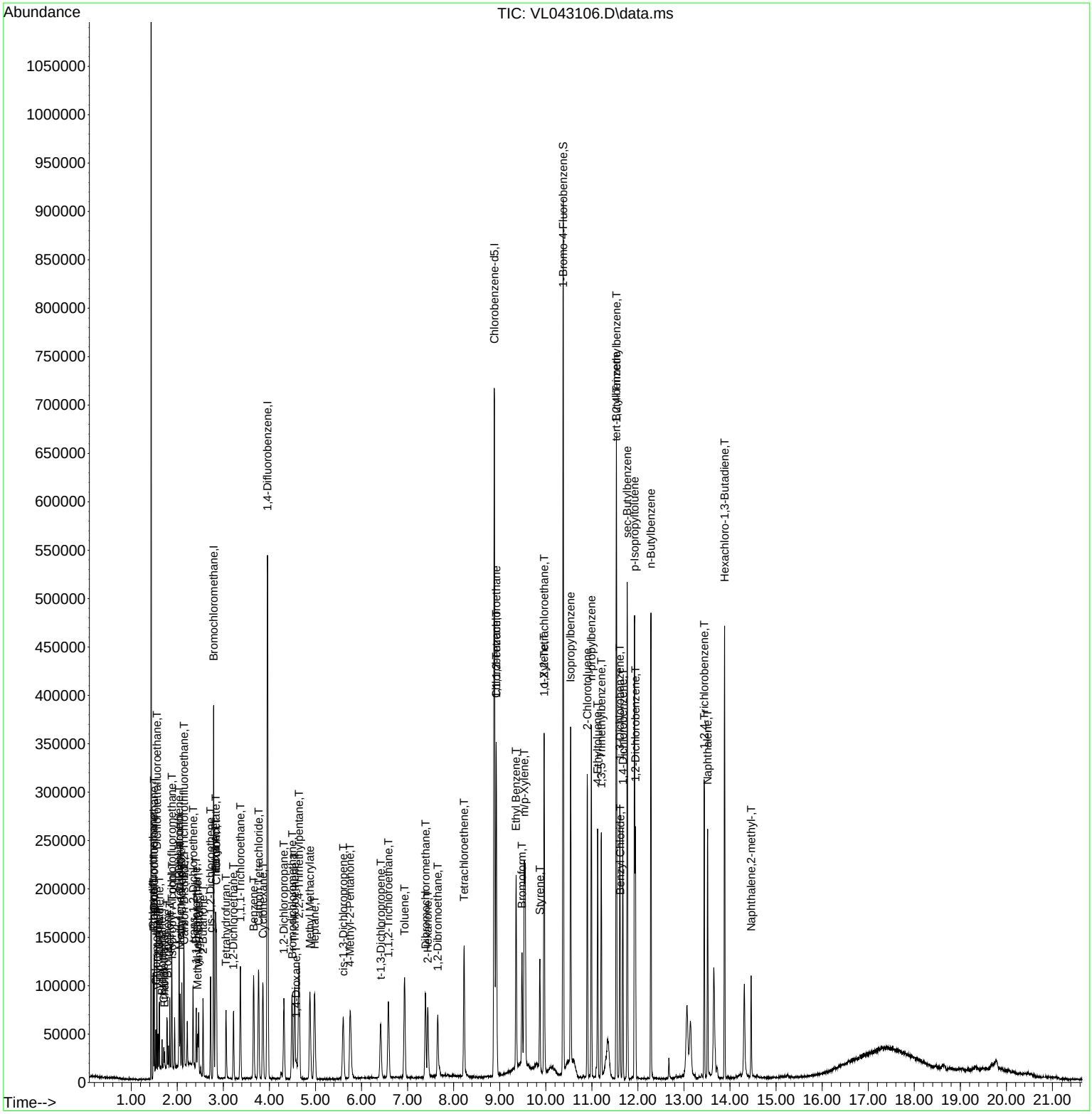
(#) = qualifier out of range (m) = manual integration (+) = signals summed

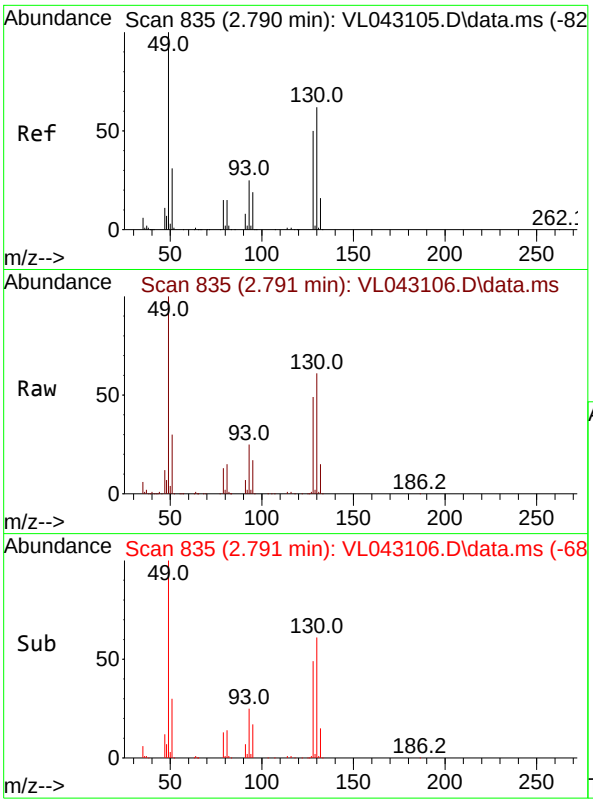
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043106.D
Acq On : 14 Oct 2025 11:27
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:51:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

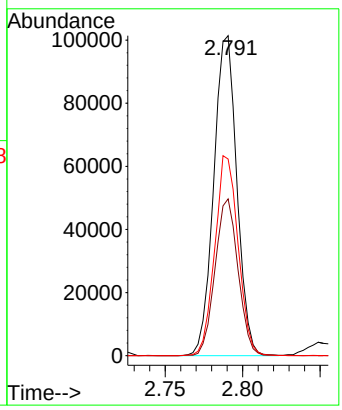




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.001 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 49 Resp: 10530

Ion	Ratio	Lower	Upper
49	100		
128	48.8	24.4	73.4
130	62.8	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
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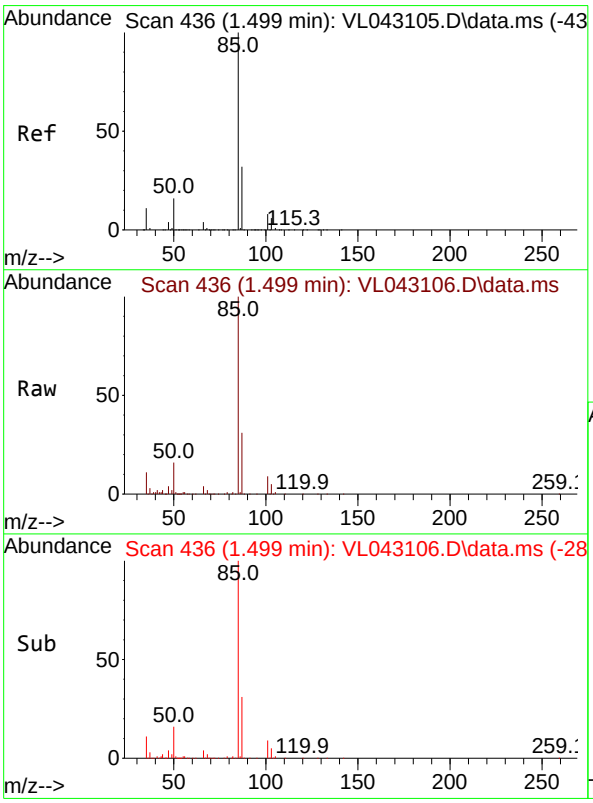
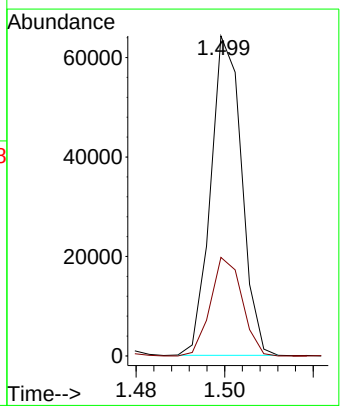
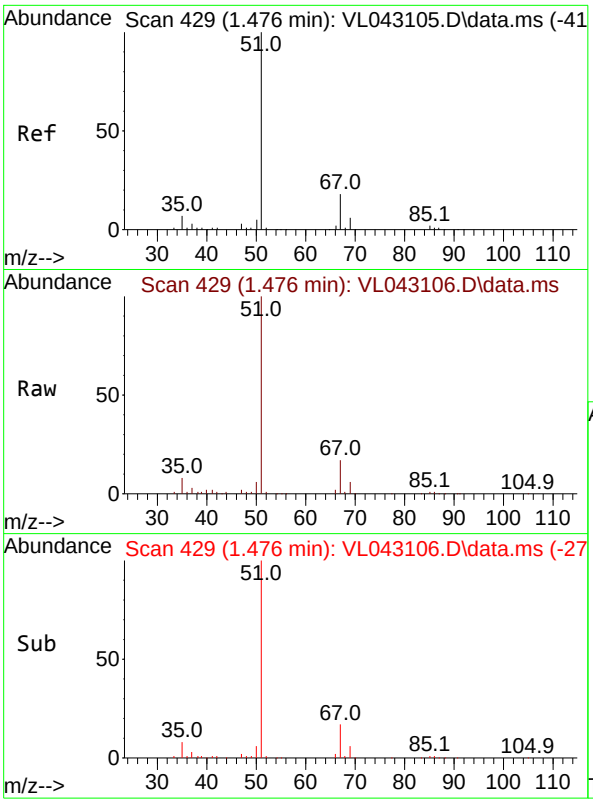


#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 31189

Ion	Ratio	Lower	Upper
85	100		
87	30.9	25.3	37.9

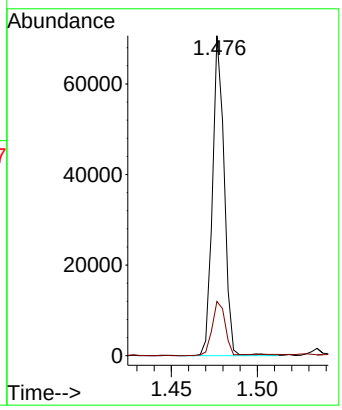




#3
Chlorodifluoromethane
Concen: 2.050 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 51 Resp: 3321

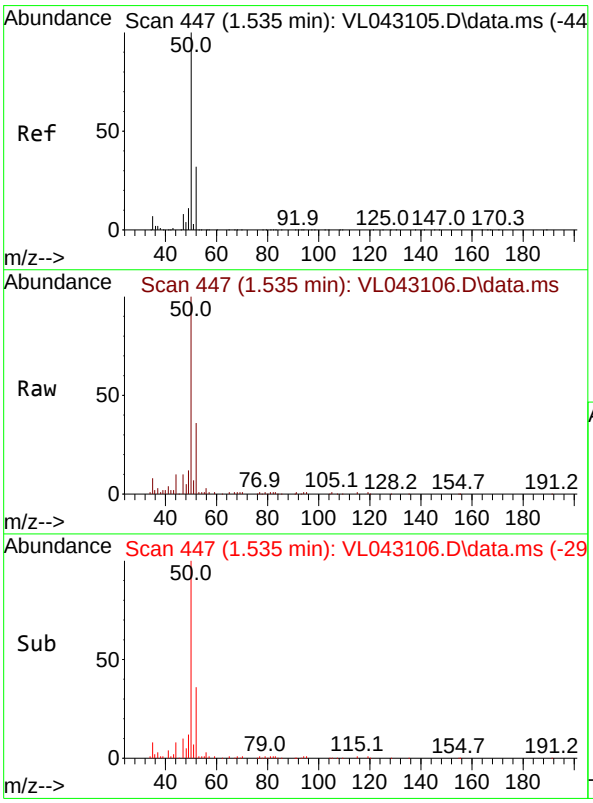
Ion	Ratio	Lower	Upper
51	100		
67	20.6	15.1	22.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

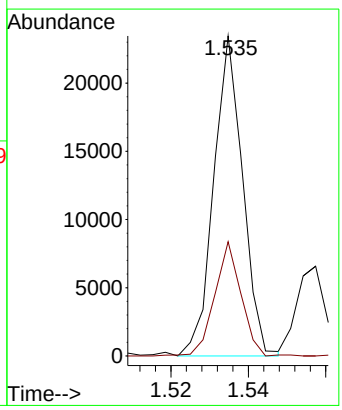
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

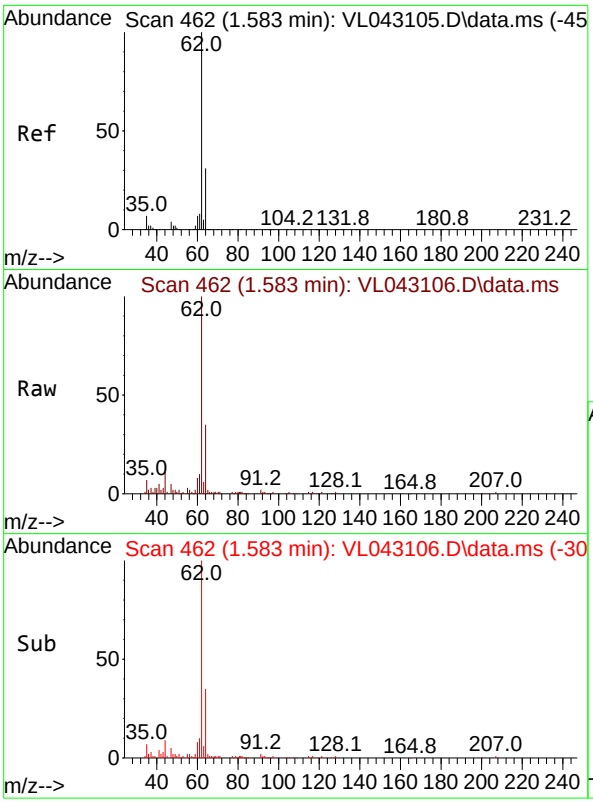


#4
Chloromethane
Concen: 2.054 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 50 Resp: 12185

Ion	Ratio	Lower	Upper
50	100		
52	35.4	25.2	37.8

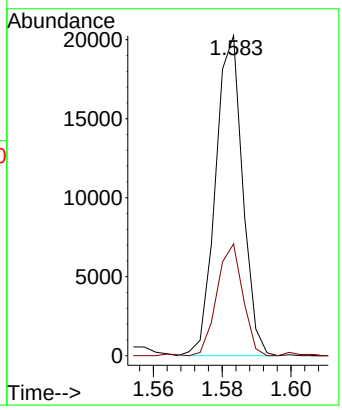




#5
Vinyl Chloride
Concen: 1.911 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 62 Resp: 1111

Ion	Ratio	Lower	Upper
62	100		
64	35.0	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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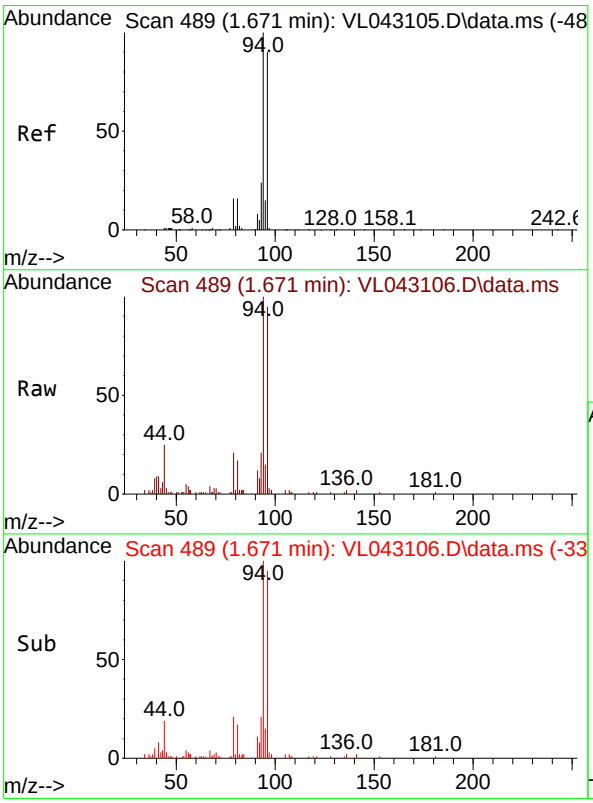
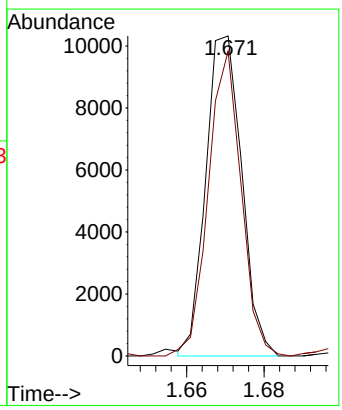
Supervised By :Mahesh Dadoda 10/16/2025

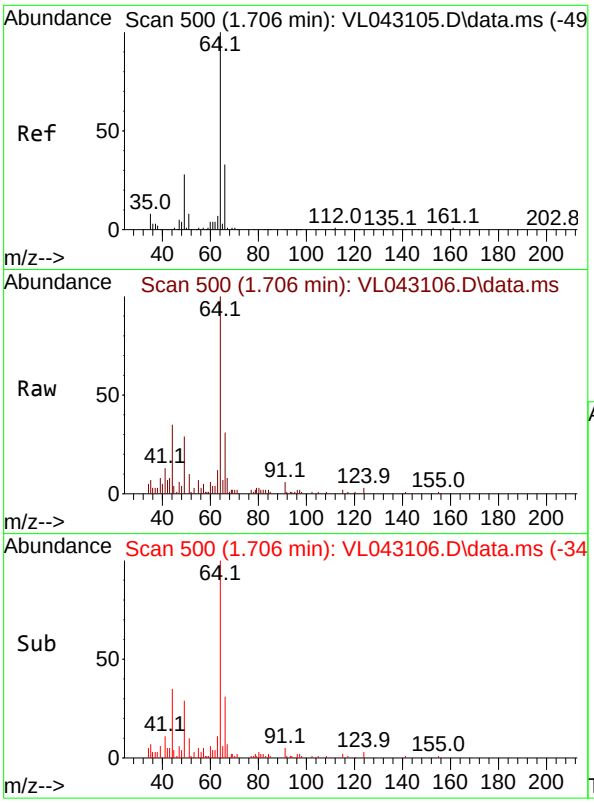


#6
Bromomethane
Concen: 2.092 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 94 Resp: 6672

Ion	Ratio	Lower	Upper
94	100		
96	94.6	72.2	108.4

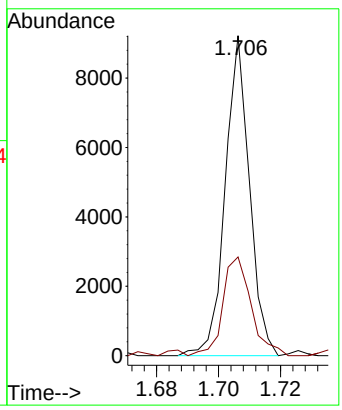




#7
Chloroethane
Concen: 2.106 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 64 Resp: 500

Ion	Ratio	Lower	Upper
64	100		
66	30.8	26.0	39.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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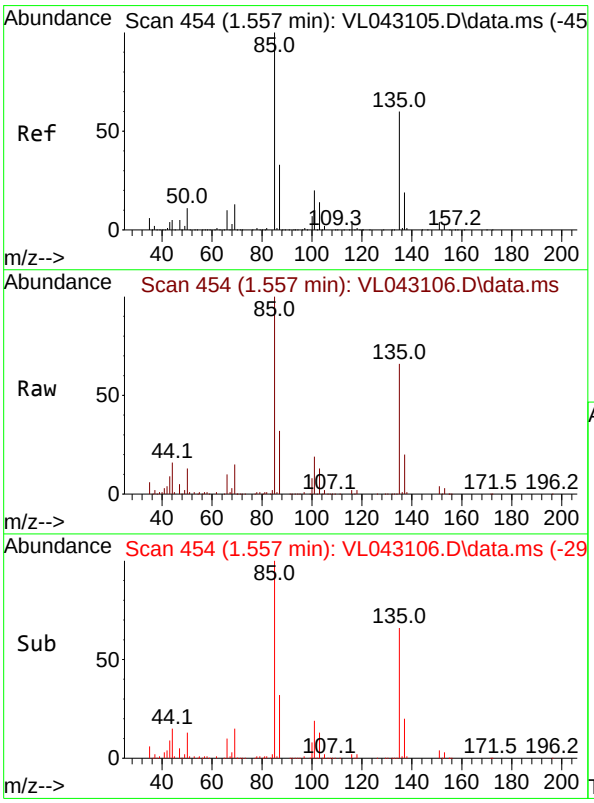
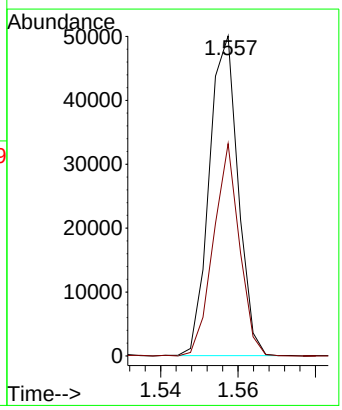
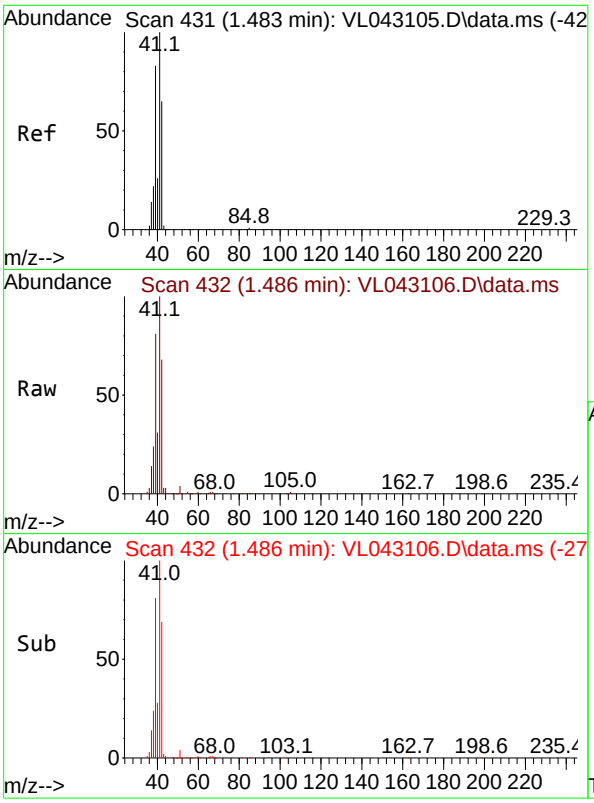


#8
Dichlorotetrafluoroethane
Concen: 2.140 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 25897

Ion	Ratio	Lower	Upper
85	100		
135	60.1	48.2	72.4





#9
Propene
Concen: 2.112 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 41 Resp: 1517

Ion	Ratio	Lower	Upper
41	100		
42	74.0	55.1	82.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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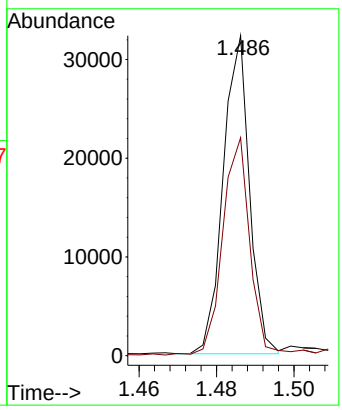
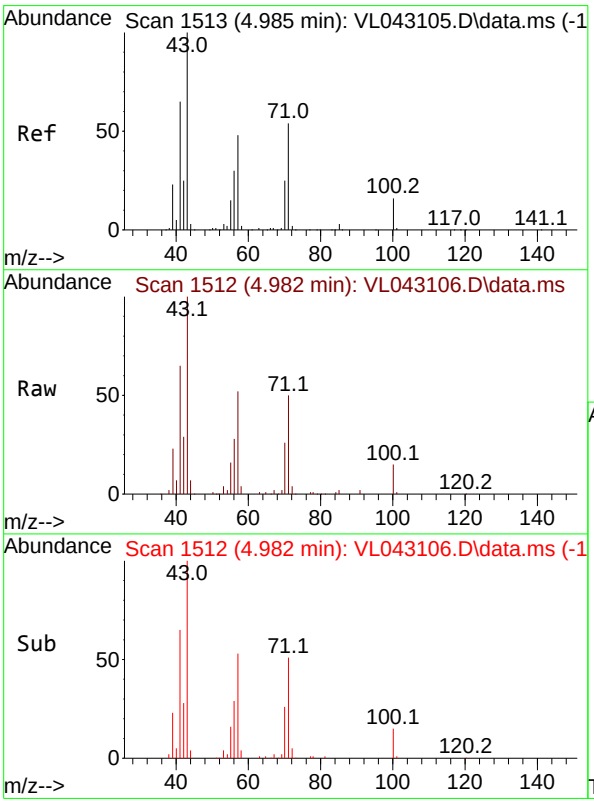
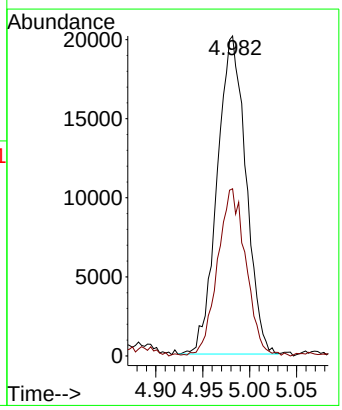


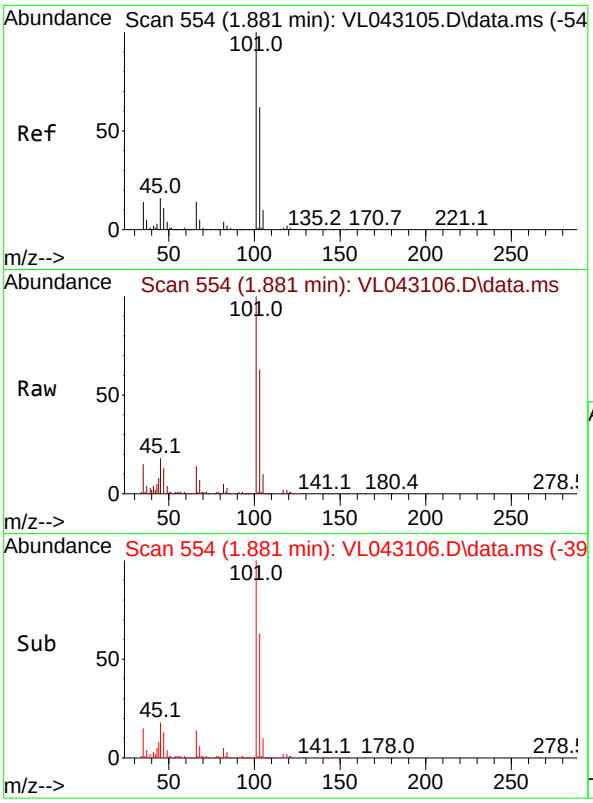


#10
Heptane
Concen: 2.078 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 42790

Ion	Ratio	Lower	Upper
43	100		
57	52.8	40.8	61.2

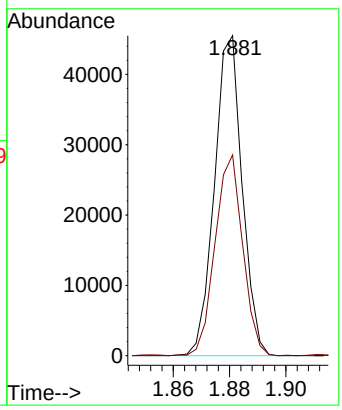




#11
Trichlorofluoromethane
Concen: 2.125 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:101 Resp: 3111

Ion	Ratio	Lower	Upper
101	100		
103	62.8	49.3	73.9



Instrument :
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ClientSampleId :
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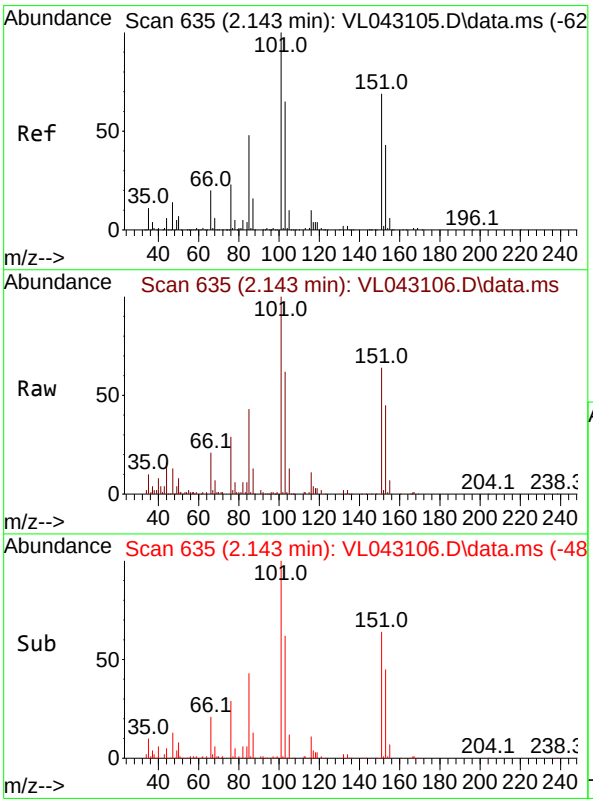
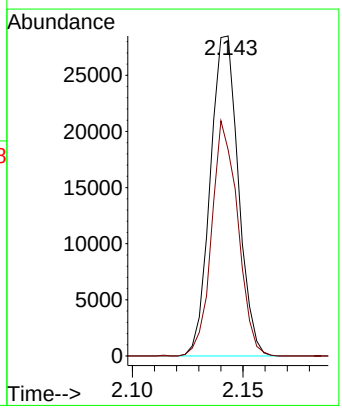
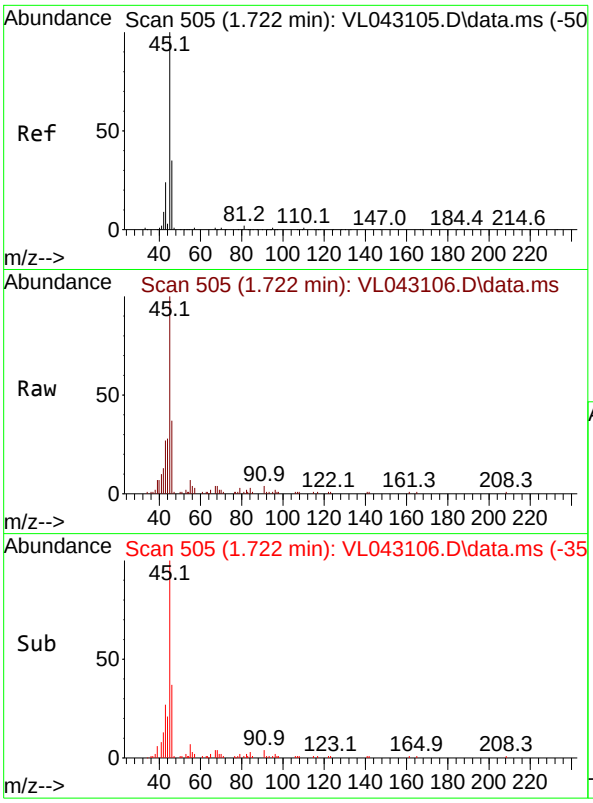


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.128 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:101 Resp: 25091

Ion	Ratio	Lower	Upper
101	100		
151	68.5	54.7	82.1

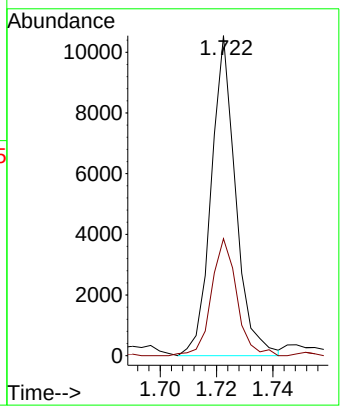




#13
Ethanol
Concen: 2.394 ppbv
RT: 1.722 min Scan# 5(
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 45 Resp: 636

Ion	Ratio	Lower	Upper
45	100		
46	39.6	14.7	58.9



Instrument :
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ClientSampleId :
VSTDICC002

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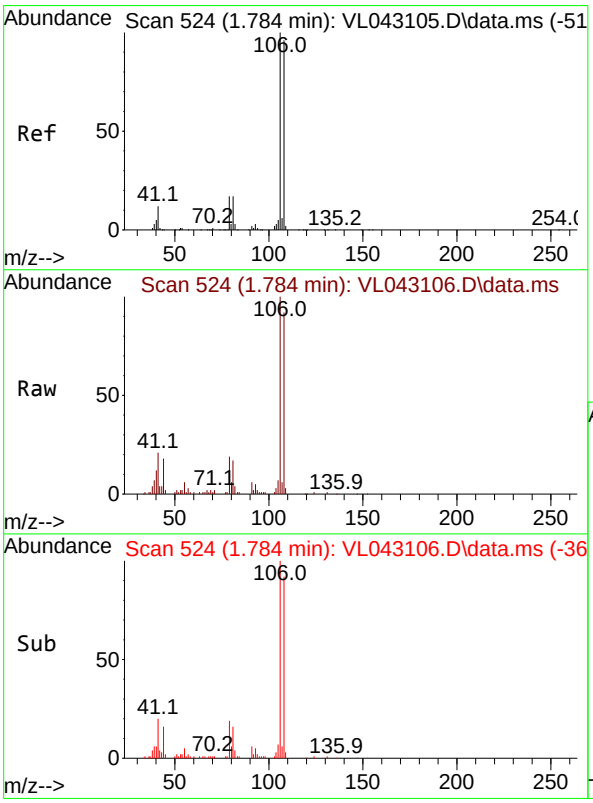
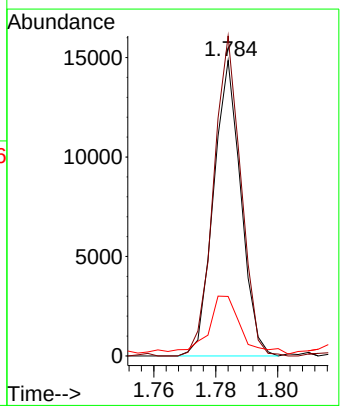
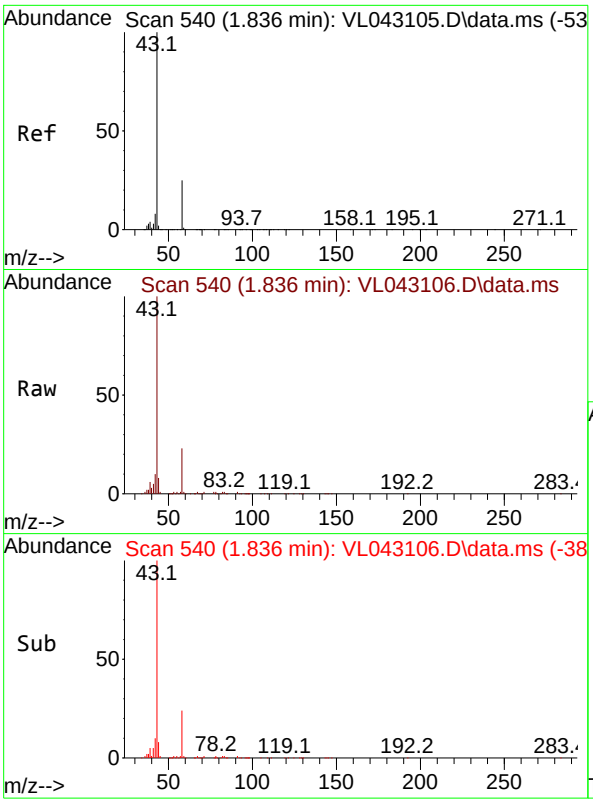


#14
Bromoethene
Concen: 2.075 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:108 Resp: 9087

Ion	Ratio	Lower	Upper
108	100		
106	109.1	84.4	126.6
79	19.1	15.3	22.9

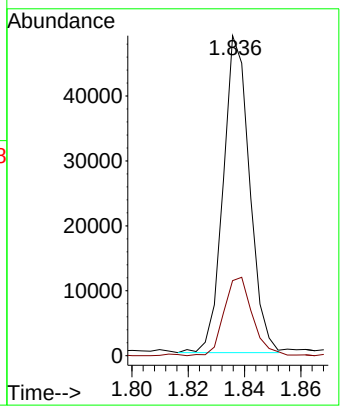




#15
Acetone
Concen: 2.225 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 3175

Ion	Ratio	Lower	Upper
43	100		
58	27.3	20.8	31.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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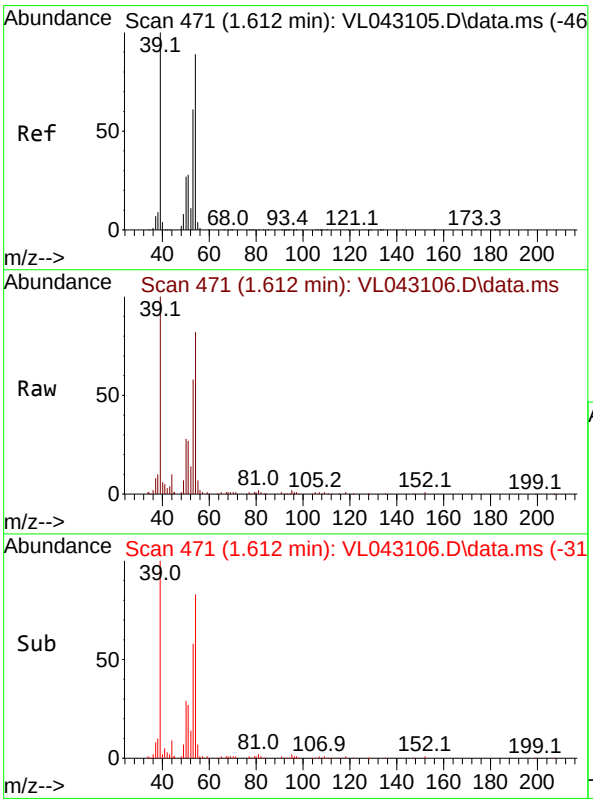
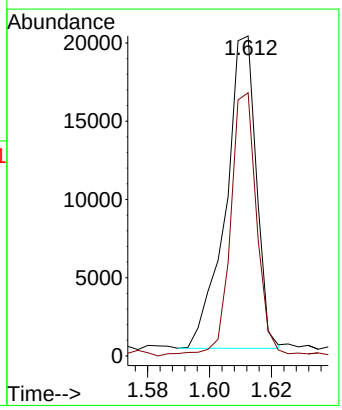
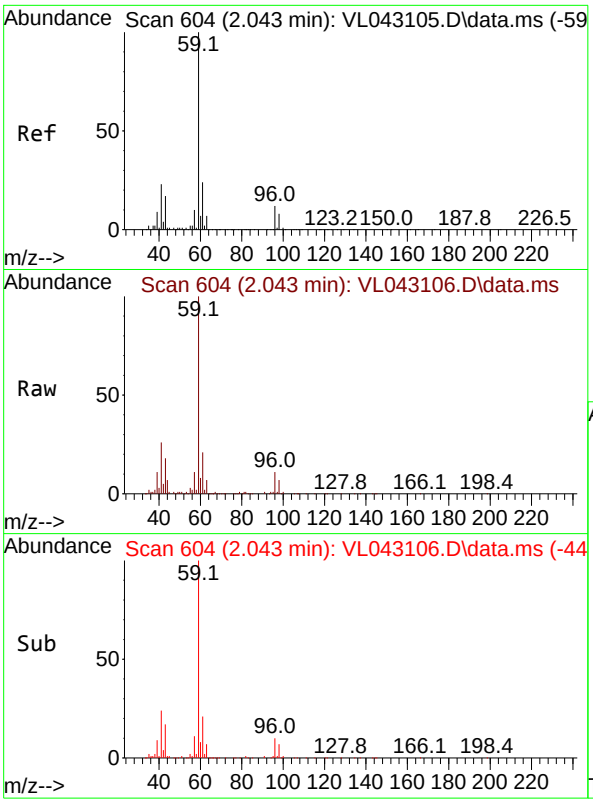


#16
1,3-Butadiene
Concen: 2.021 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 39 Resp: 13668

Ion	Ratio	Lower	Upper
39	100		
54	74.3	59.0	88.4

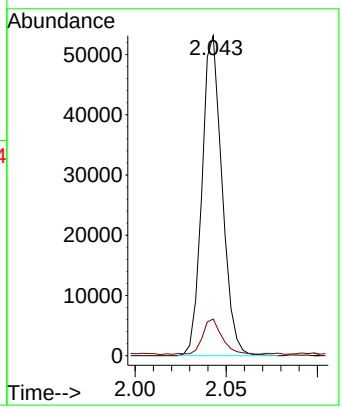




#17
tert-Butyl alcohol
Concen: 2.091 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 59 Resp: 4073

Ion	Ratio	Lower	Upper
59	100		
57	11.9	8.2	12.4



Instrument :
MSVOA_L
ClientSampleId :
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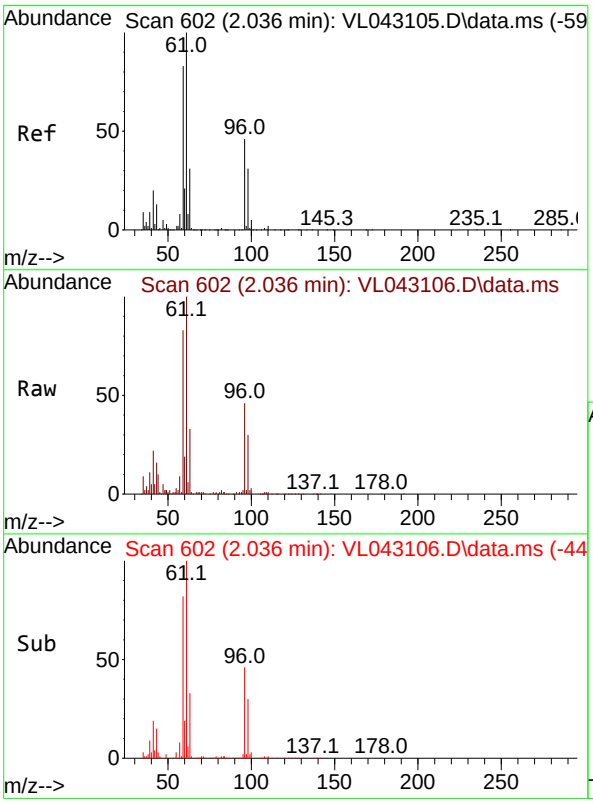
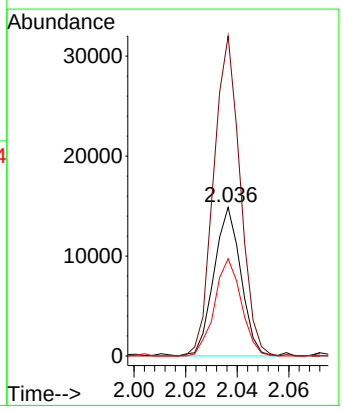
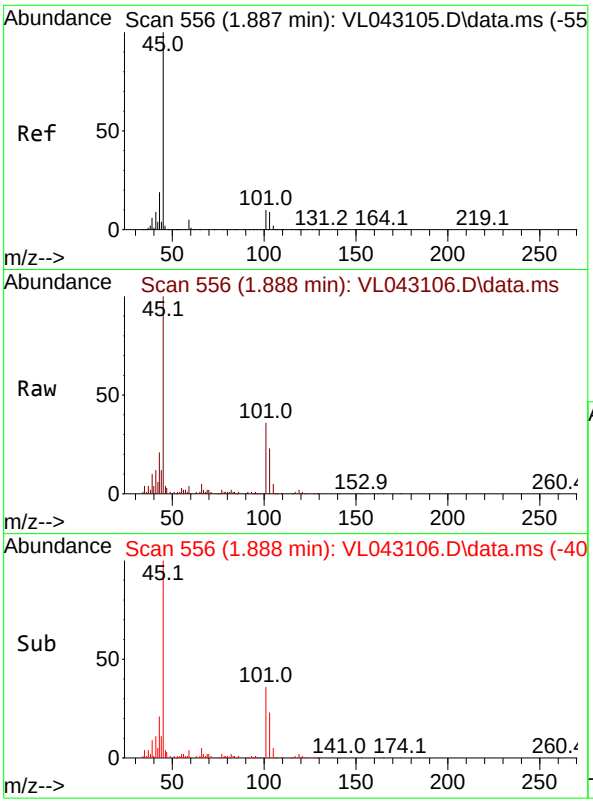


#18
1,1-Dichloroethene
Concen: 2.100 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 96 Resp: 10794

Ion	Ratio	Lower	Upper
96	100		
61	215.2	173.4	260.0
98	65.4	53.2	79.8

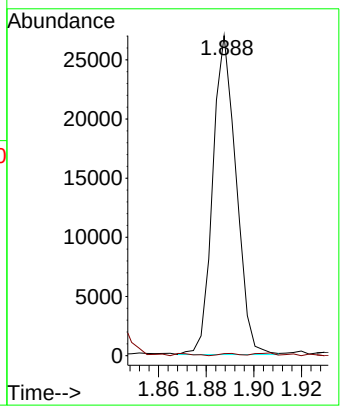




#19
Isopropyl Alcohol
Concen: 2.073 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 45 Resp: 1832

Ion	Ratio	Lower	Upper
45	100		
58	2.3	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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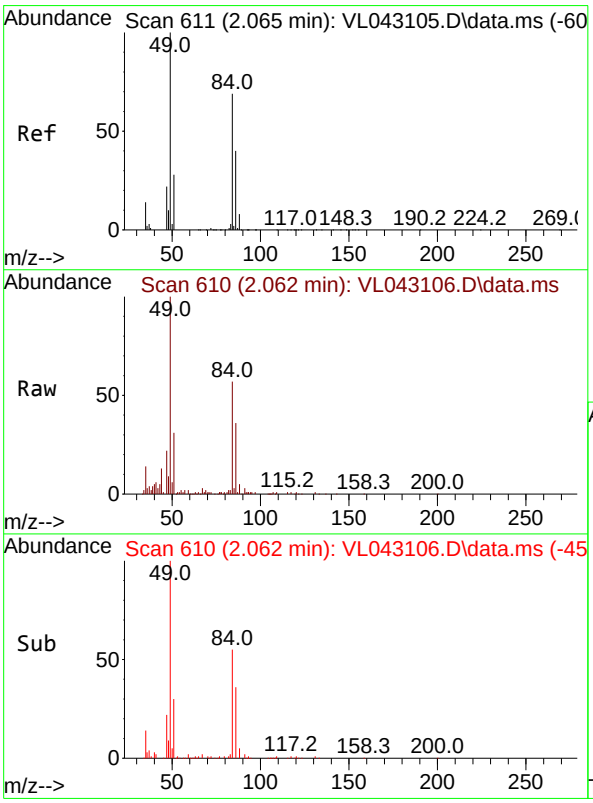
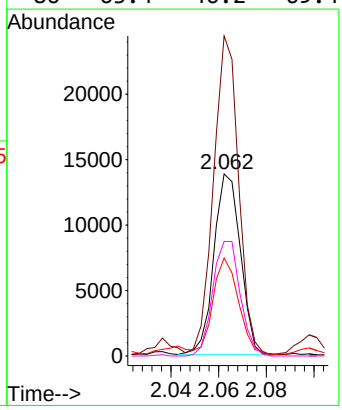
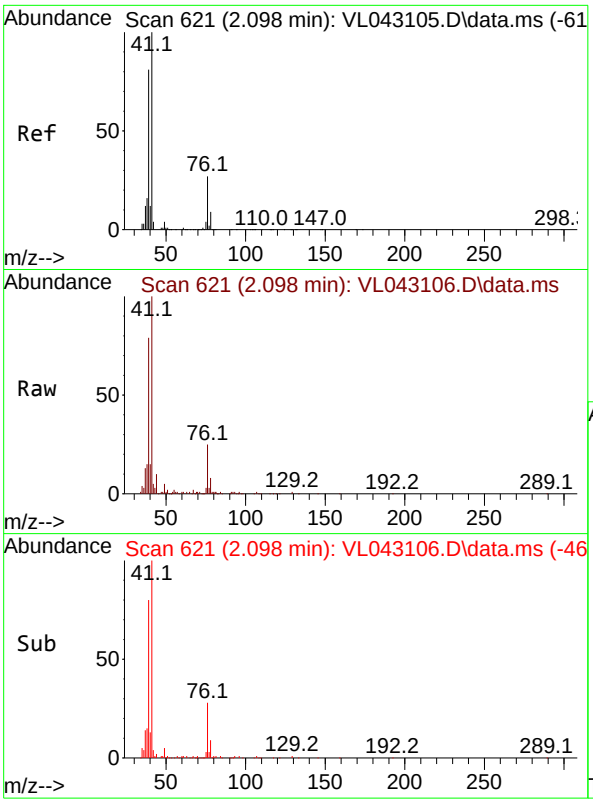


#20
Methylene Chloride
Concen: 1.906 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 84 Resp: 10694

Ion	Ratio	Lower	Upper
84	100		
49	175.6	116.6	175.0#
51	53.2	34.8	52.2#
86	63.4	46.2	69.4

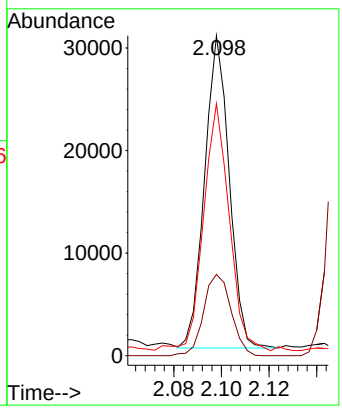




#21
Allyl Chloride
Concen: 2.090 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 41 Resp: 2190

Ion	Ratio	Lower	Upper
41	100		
76	28.9	21.5	32.3
39	83.1	60.8	91.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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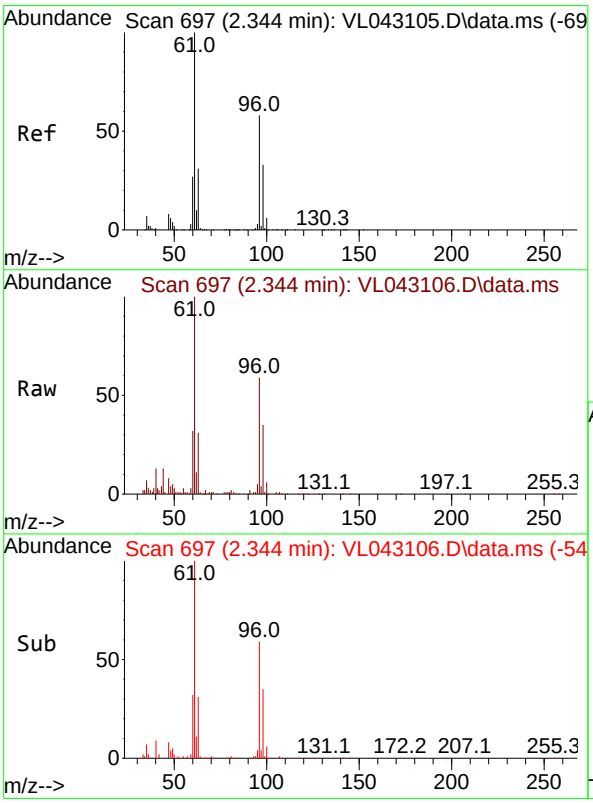
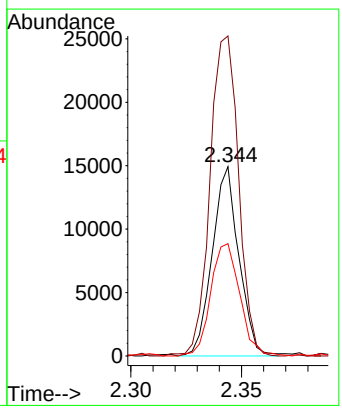
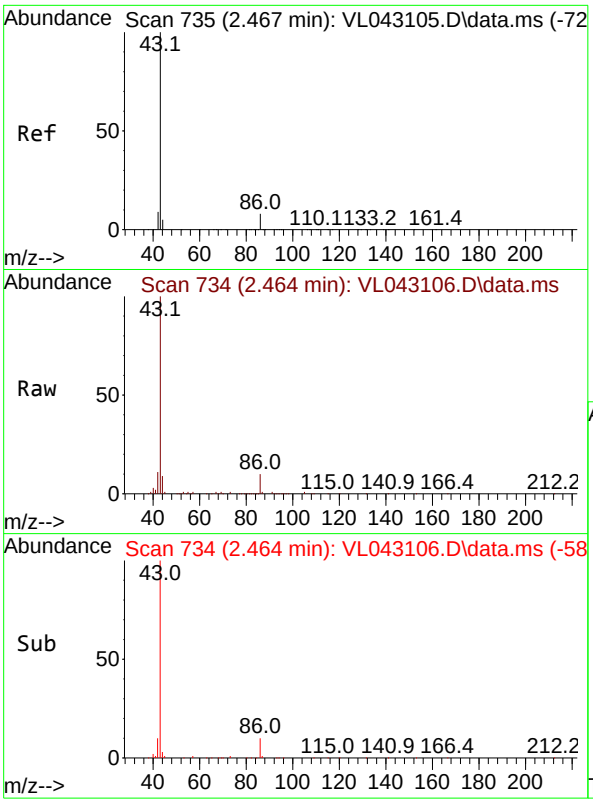


#22
trans-1,2-Dichloroethene
Concen: 2.036 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 96 Resp: 12511

Ion	Ratio	Lower	Upper
96	100		
61	169.0	137.0	205.6
98	59.3	45.5	68.3

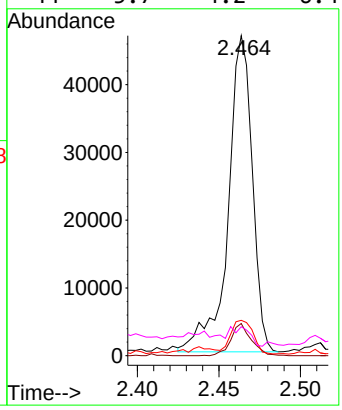




#23
Vinyl Acetate
Concen: 2.322 ppbv
RT: 2.464 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 4828

Ion	Ratio	Lower	Upper
43	100		
86	10.1	6.2	9.2
42	10.6	7.6	11.4
44	5.7	4.2	6.4



Instrument :
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ClientSampleId :
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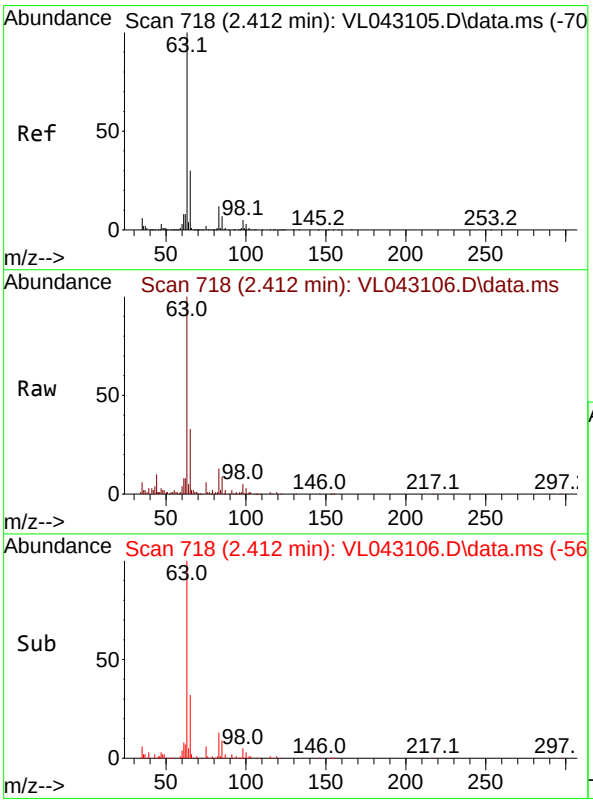
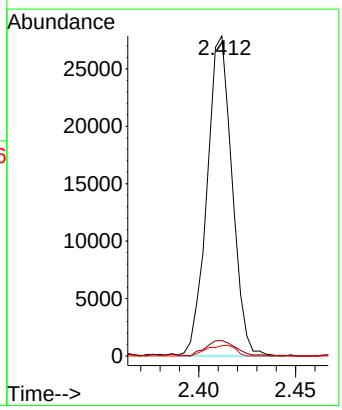
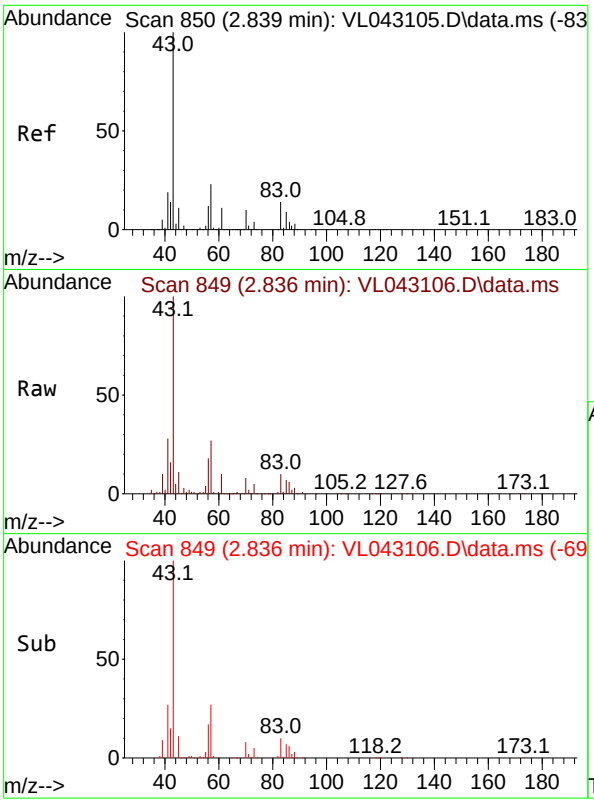


#24
1,1-Dichloroethane
Concen: 2.112 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 63 Resp: 25066

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.6	7.8
100	3.2	1.5	4.4

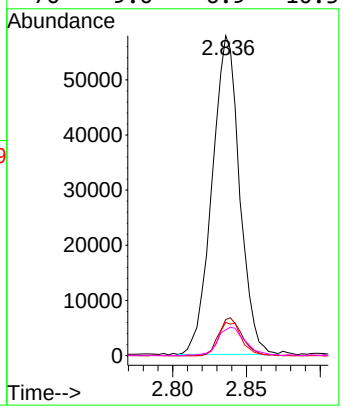




#25
Ethyl Acetate
Concen: 2.129 ppbv
RT: 2.836 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 7492

Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.8	11.8
61	8.9	7.0	10.6
70	9.0	6.9	10.3



Instrument :
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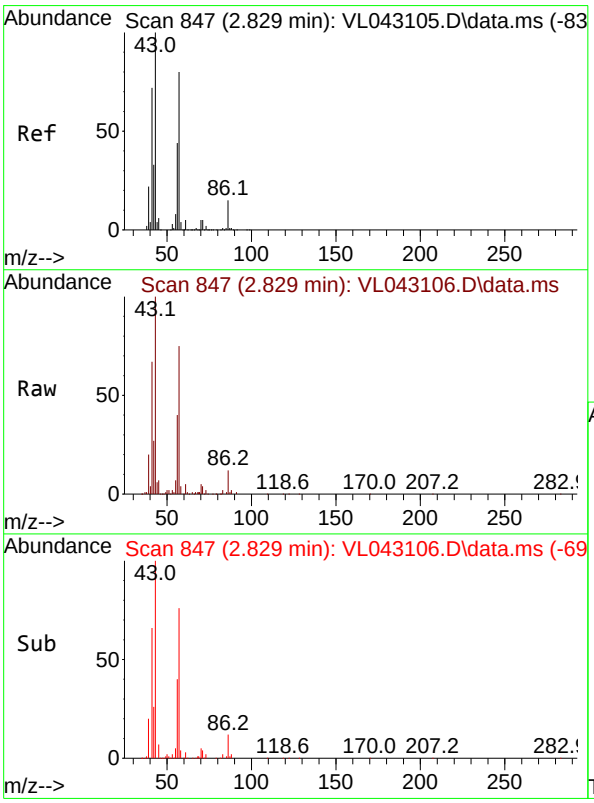
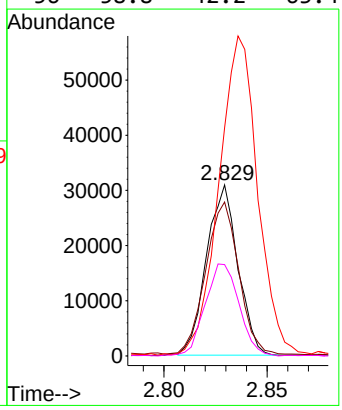
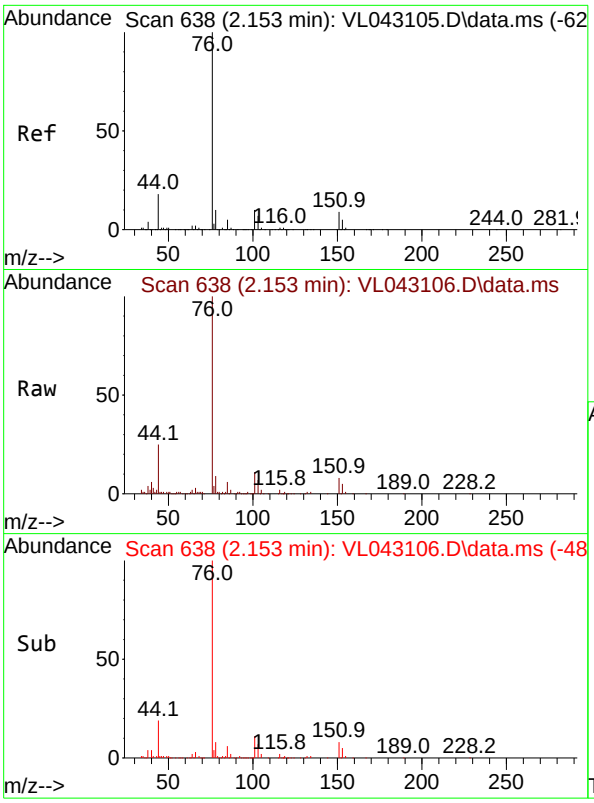


#26
Hexane
Concen: 2.010 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 57 Resp: 32595

Ion	Ratio	Lower	Upper
57	100		
41	96.4	71.4	107.0
43	233.0	178.5	267.7
56	58.8	42.2	63.4

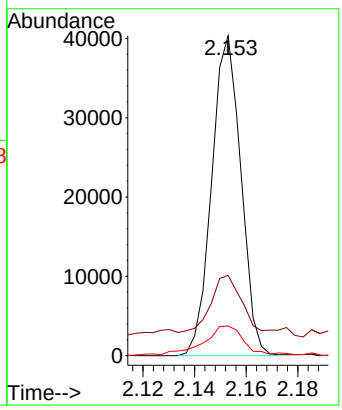




#27
Carbon Disulfide
Concen: 2.134 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 76 Resp: 3170

Ion	Ratio	Lower	Upper
76	100		
44	23.1	16.7	25.1
78	13.6	9.3	13.9



Instrument :
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ClientSampleId :
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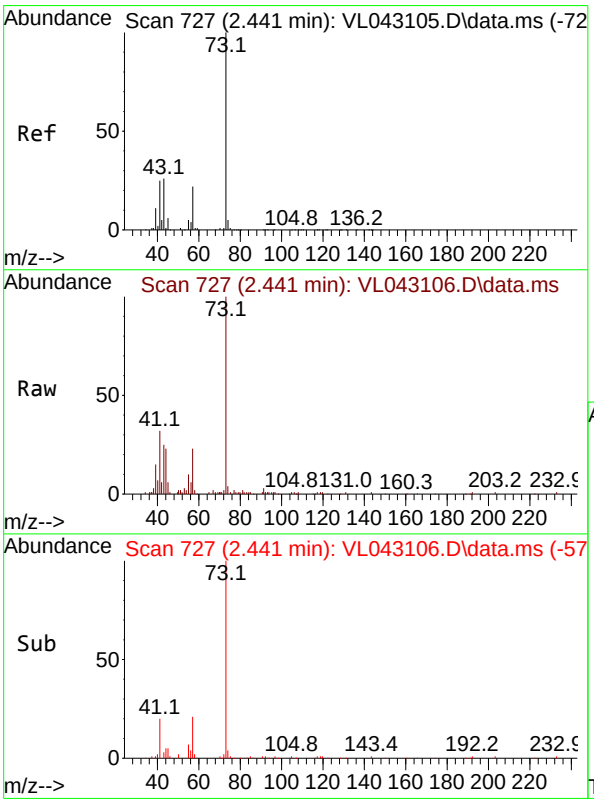
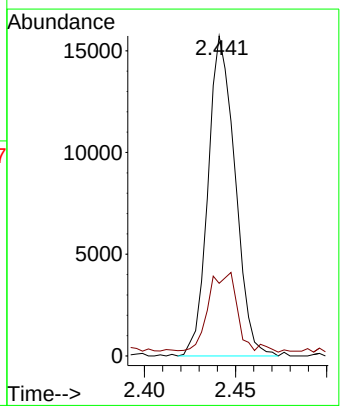
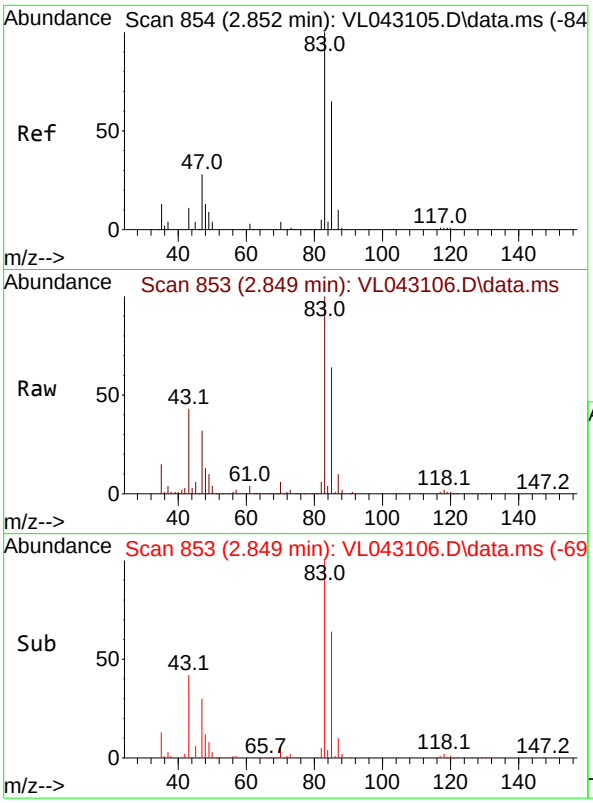


#28
Methyl tert-Butyl Ether
Concen: 2.196 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 73 Resp: 16207

Ion	Ratio	Lower	Upper
73	100		
57	26.6	20.5	30.7





#29
Chloroform
Concen: 2.058 ppbv
RT: 2.849 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 83 Resp: 4836

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.8	77.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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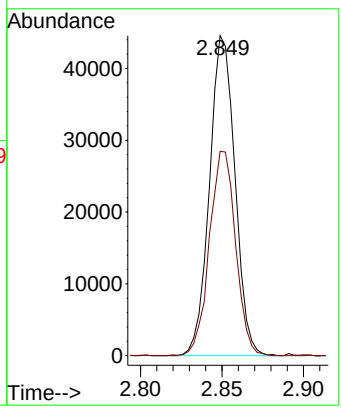
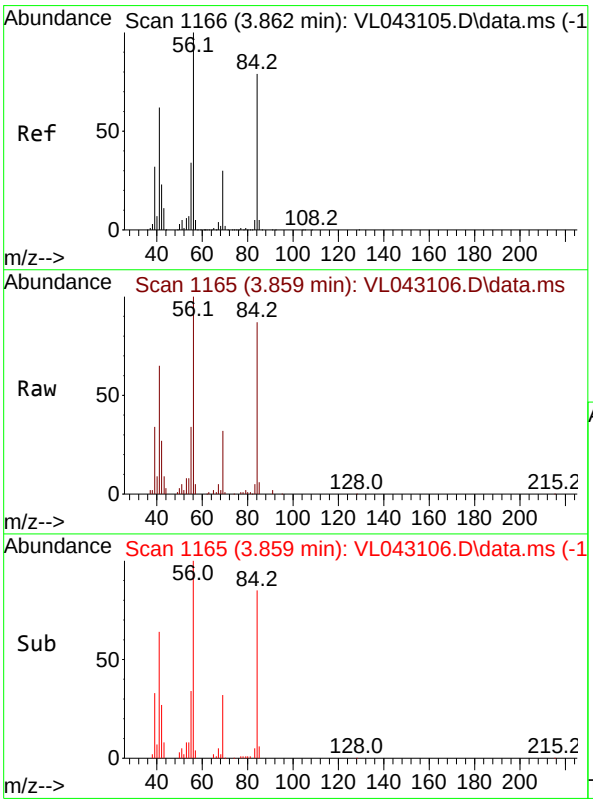
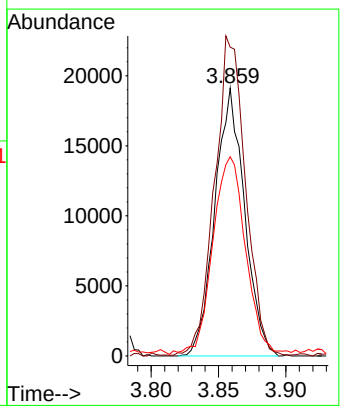


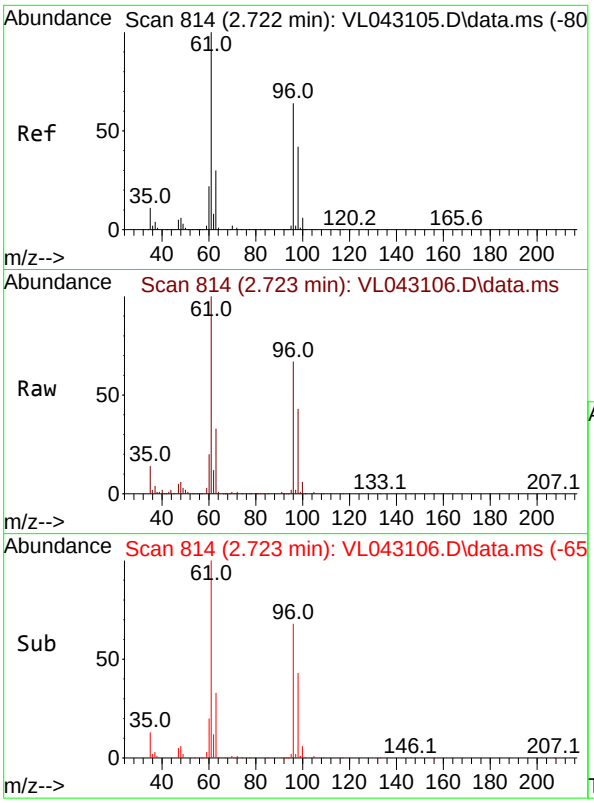


#30
Cyclohexane
Concen: 2.069 ppbv
RT: 3.859 min Scan# 1165
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 84 Resp: 29270

Ion	Ratio	Lower	Upper
84	100		
56	125.6	100.9	151.3
41	79.0	63.8	95.6

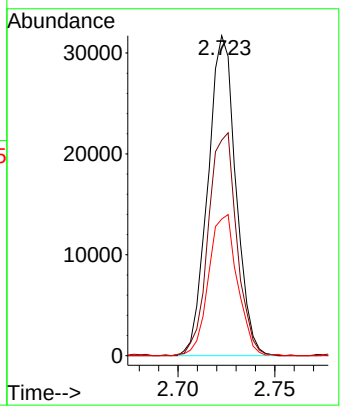




#31
cis-1,2-Dichloroethene
Concen: 2.061 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 61 Resp: 3192

Ion	Ratio	Lower	Upper
61	100		
96	67.3	51.0	76.6
98	42.3	33.5	50.3



Instrument :
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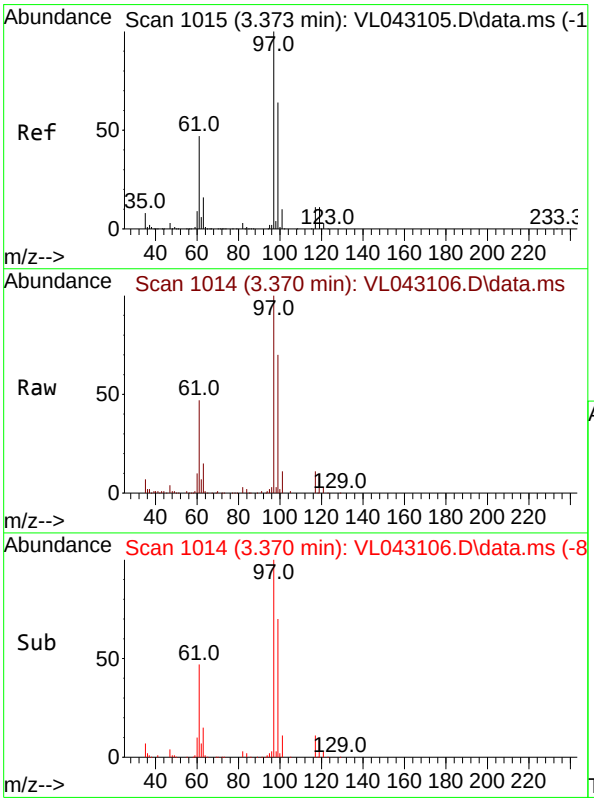
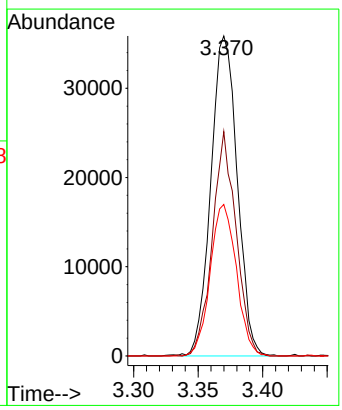
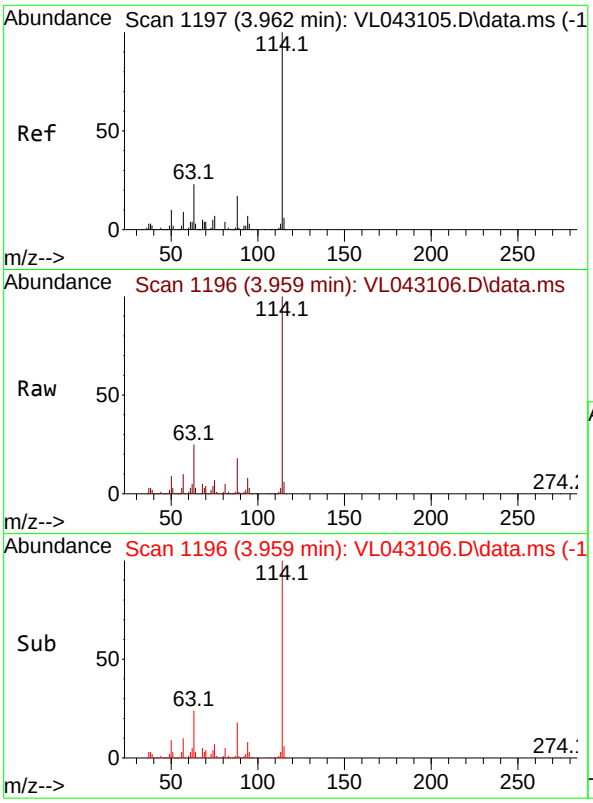


#32
1,1,1-Trichloroethane
Concen: 2.086 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 97 Resp: 51049

Ion	Ratio	Lower	Upper
97	100		
99	62.8	51.3	76.9
61	46.9	38.4	57.6

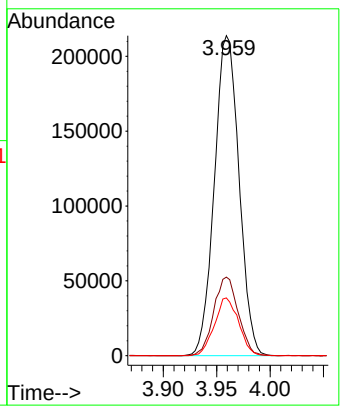




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:114 Resp: 34293

Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.3	28.9
88	17.8	13.9	20.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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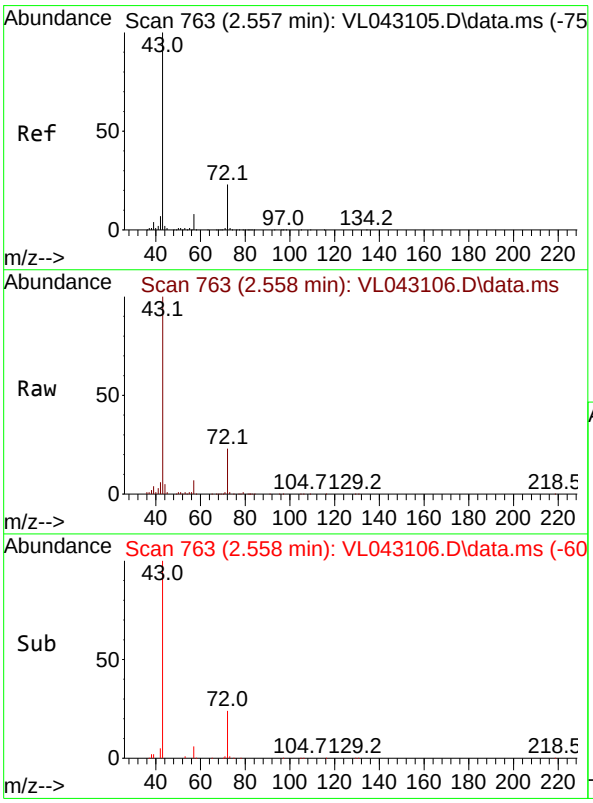
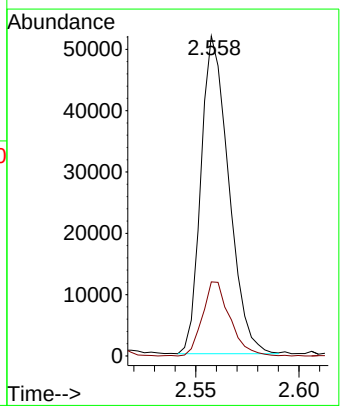
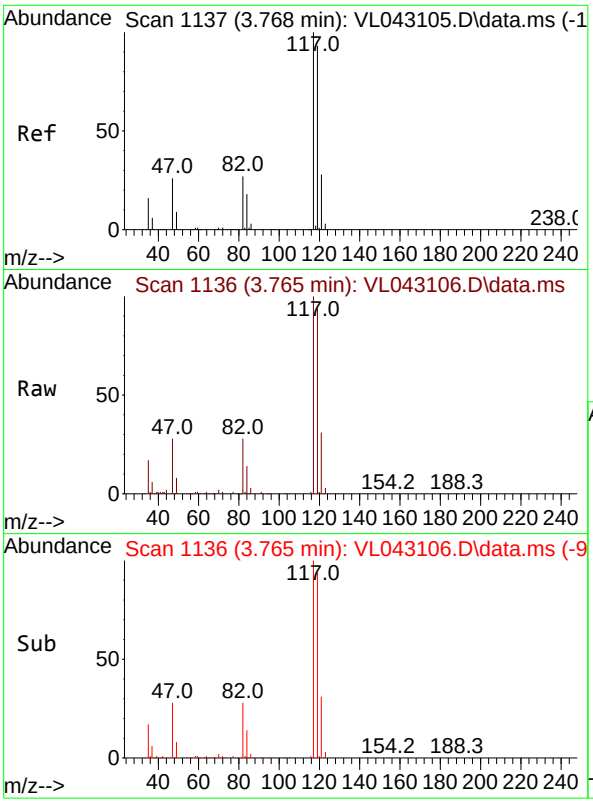


#34
2-Butanone
Concen: 2.090 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 48458

Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.4	27.6

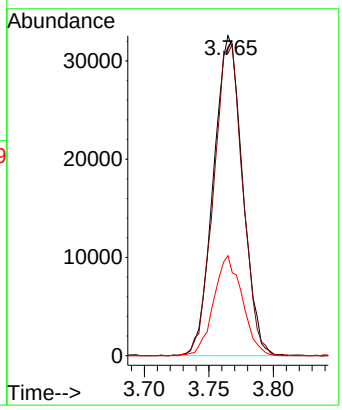




#35
Carbon Tetrachloride
Concen: 2.071 ppbv
RT: 3.765 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:117 Resp: 5107

Ion	Ratio	Lower	Upper
117	100		
119	94.2	74.1	111.1
121	31.3	22.2	33.2



Instrument :
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ClientSampleId :
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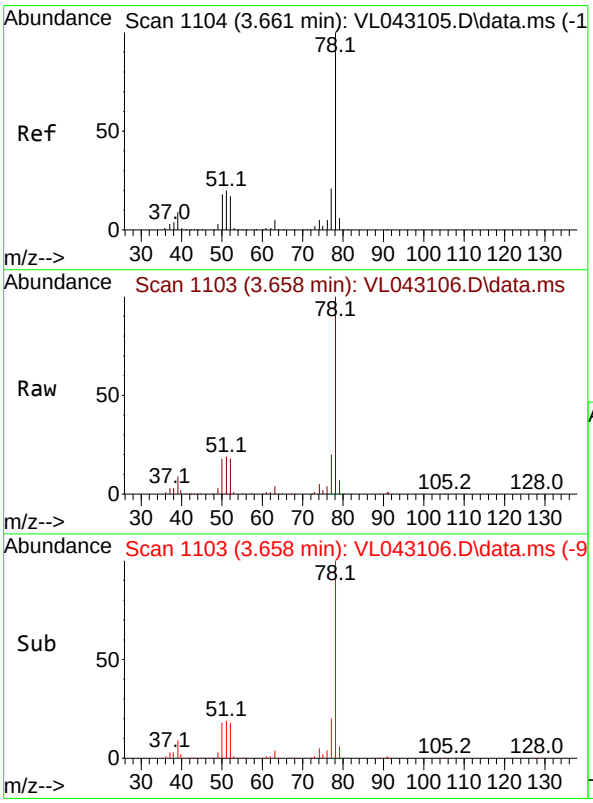
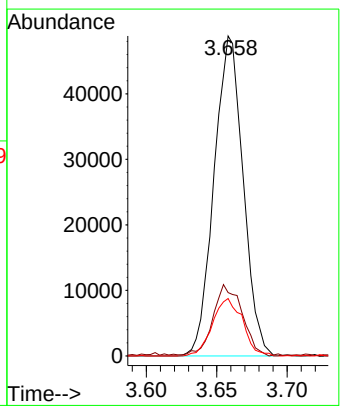
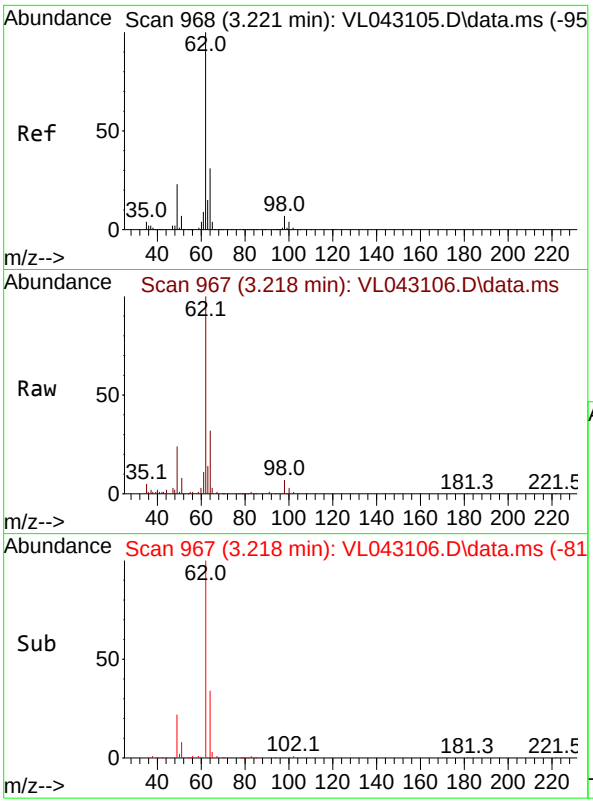


#36
Benzene
Concen: 2.172 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 78 Resp: 70156

Ion	Ratio	Lower	Upper
78	100		
77	19.5	17.0	25.6
50	18.0	14.6	22.0

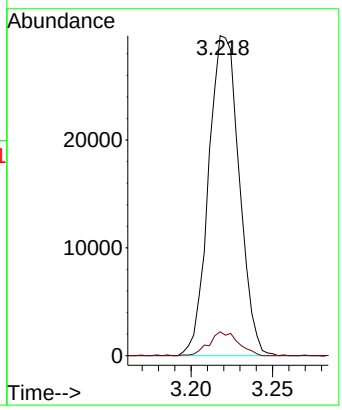




#37
1,2-Dichloroethane
Concen: 2.083 ppbv
RT: 3.218 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 62 Resp: 3876

Ion	Ratio	Lower	Upper
62	100		
98	7.3	5.8	8.6



Instrument :
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ClientSampleId :
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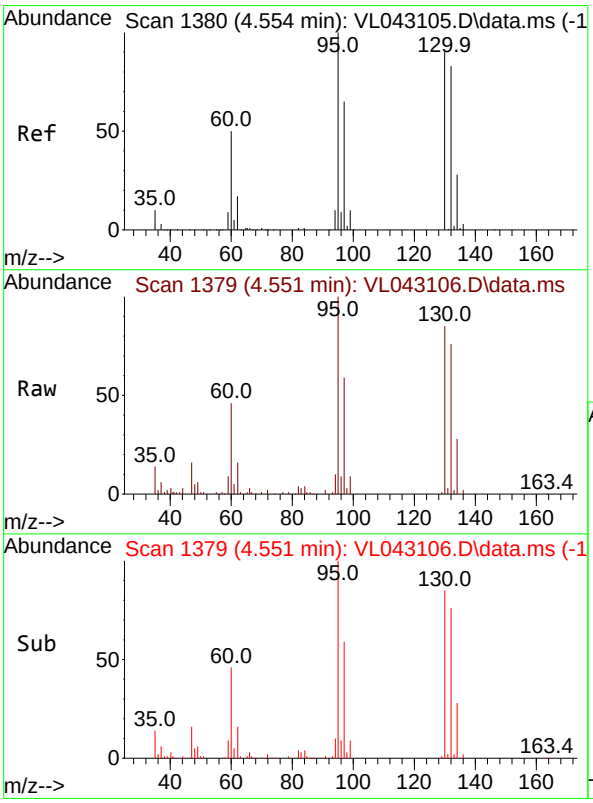
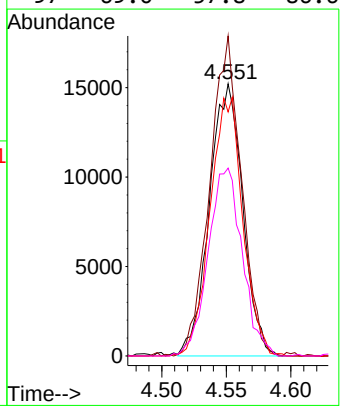
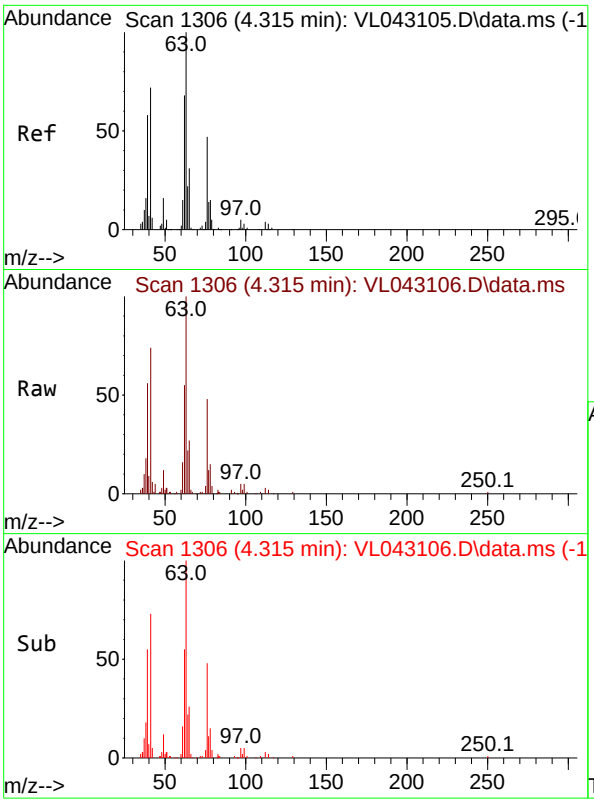


#38
Trichloroethene
Concen: 2.024 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:130 Resp: 27272

Ion	Ratio	Lower	Upper
130	100		
95	117.1	88.6	133.0
132	89.0	73.4	110.0
97	69.0	57.8	86.6

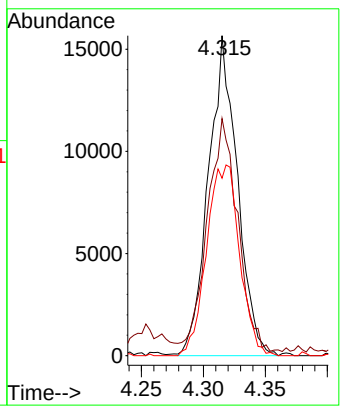




#39
1,2-Dichloropropane
Concen: 2.151 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 63 Resp: 2542

Ion	Ratio	Lower	Upper
63	100		
41	72.3	58.0	87.0
62	55.5	54.7	82.1



Instrument :
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ClientSampleId :
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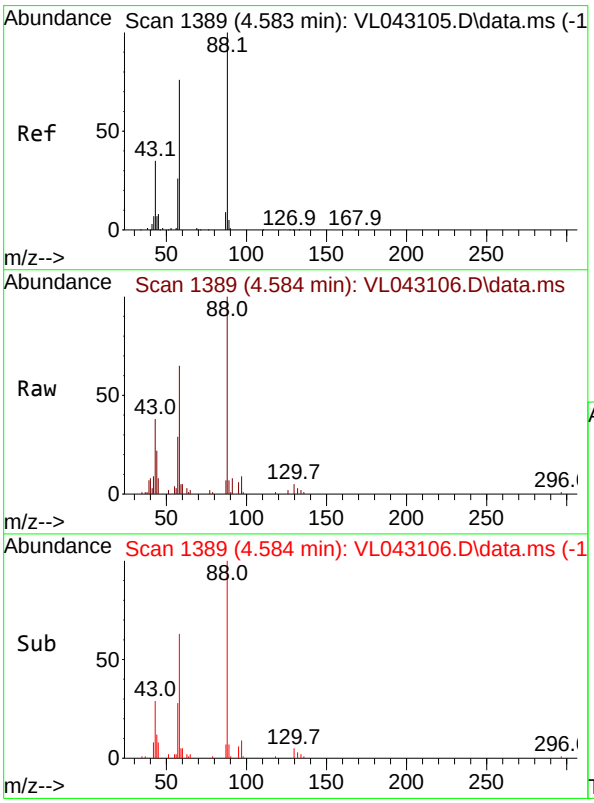
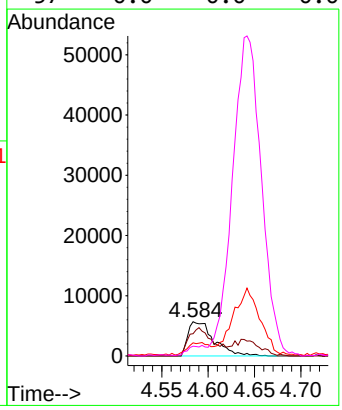
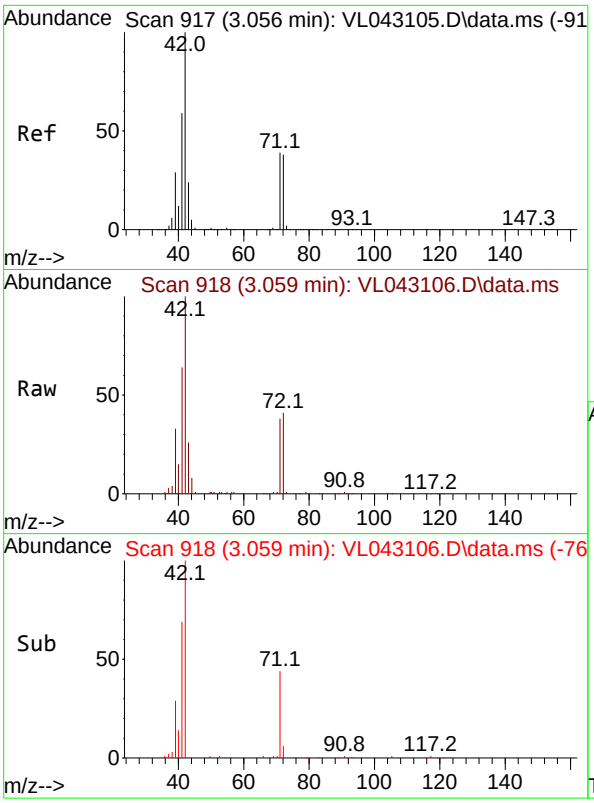


#40
1,4-Dioxane
Concen: 2.101 ppbv m
RT: 4.584 min Scan# 1389
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 88 Resp: 11102

Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	0.0	24.0	36.0#
57	0.0	0.0	0.0

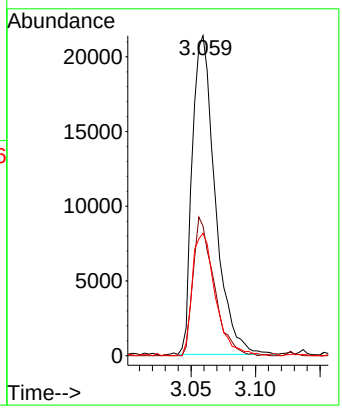




#41
Tetrahydrofuran
Concen: 2.037 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 42 Resp: 2636

Ion	Ratio	Lower	Upper
42	100		
72	39.7	31.3	46.9
71	39.4	30.4	45.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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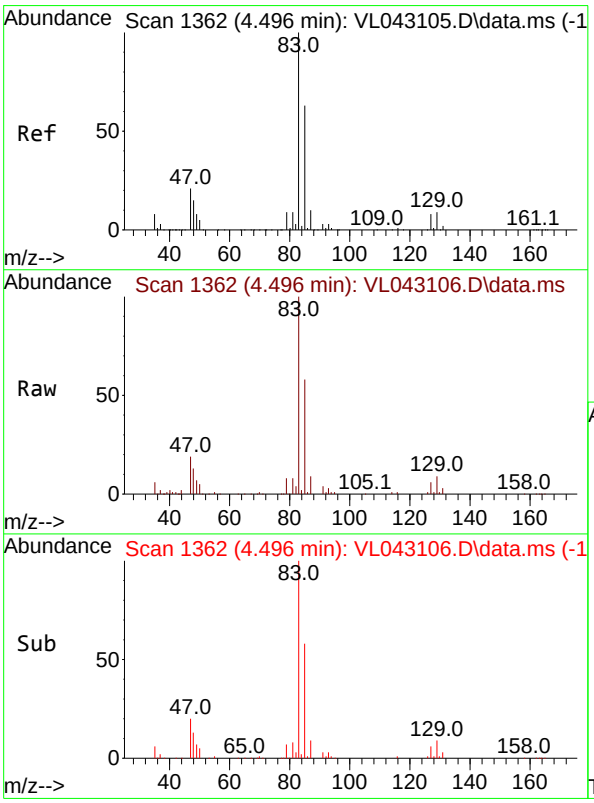
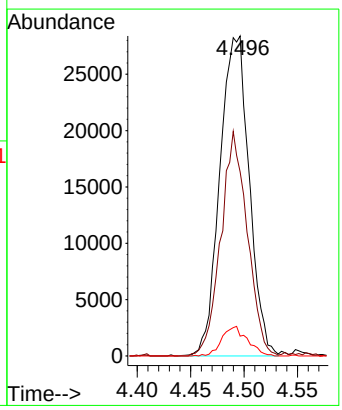
Supervised By :Mahesh Dadoda 10/16/2025

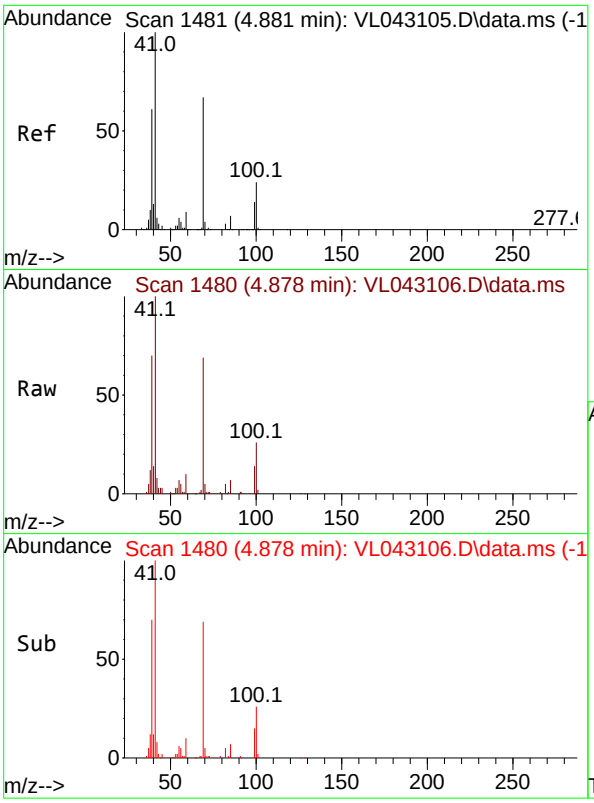


#42
Bromodichloromethane
Concen: 2.106 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 83 Resp: 54224

Ion	Ratio	Lower	Upper
83	100		
85	57.6	50.6	75.8
127	6.2	6.3	9.5#

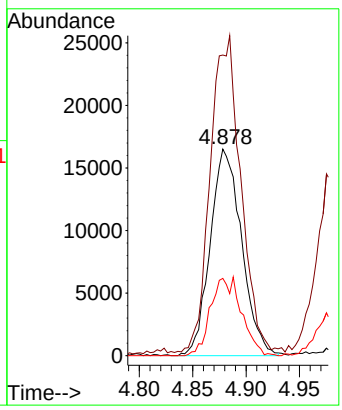




#43
Methyl Methacrylate
Concen: 2.051 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 69 Resp: 3380

Ion	Ratio	Lower	Upper
69	100		
41	151.4	120.5	180.7
100	37.3	29.0	43.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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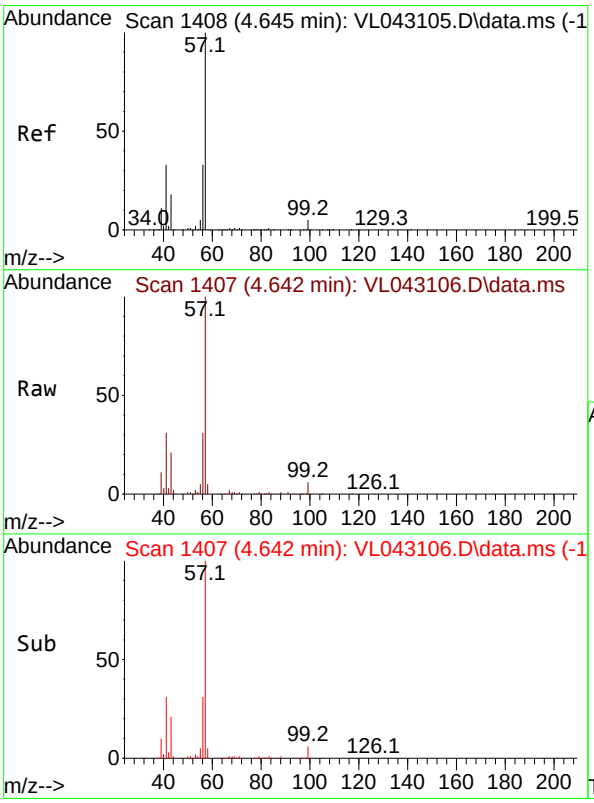
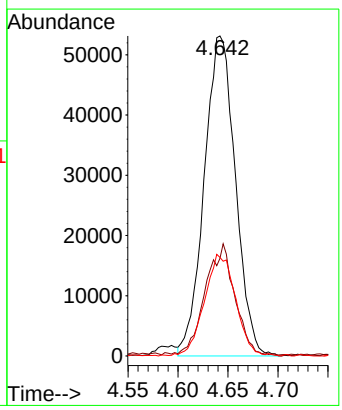
Supervised By :Mahesh Dadoda 10/16/2025

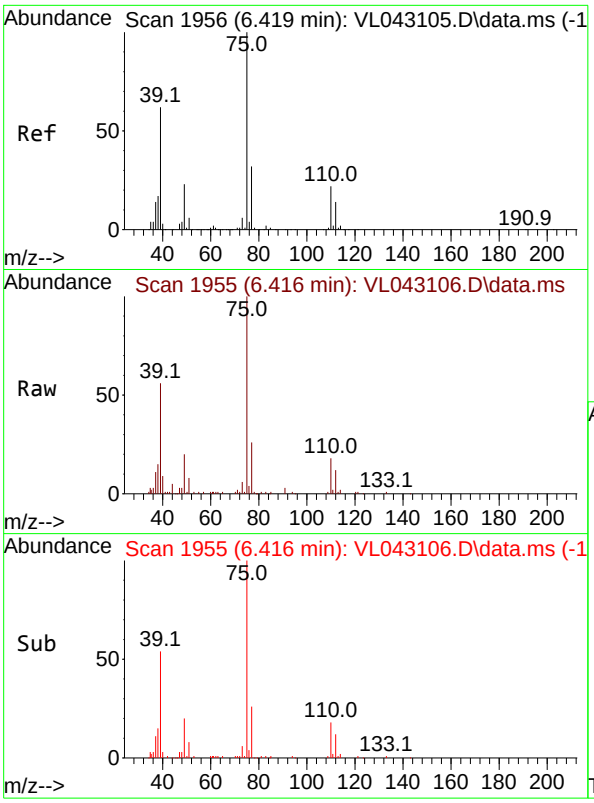


#44
2,2,4-Trimethylpentane
Concen: 2.137 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 57 Resp: 115417

Ion	Ratio	Lower	Upper
57	100		
41	34.0	26.3	39.5
56	31.9	25.9	38.9

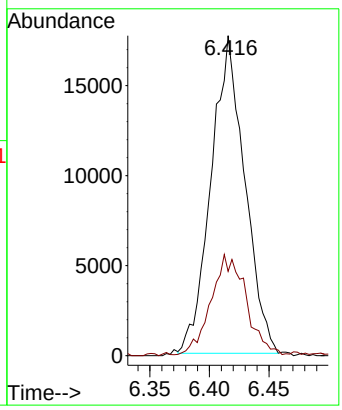




#45
t-1,3-Dichloropropene
Concen: 2.109 ppbv
RT: 6.416 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 75 Resp: 3472

Ion	Ratio	Lower	Upper
75	100		
77	26.3	25.4	38.2



Instrument :
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ClientSampleId :
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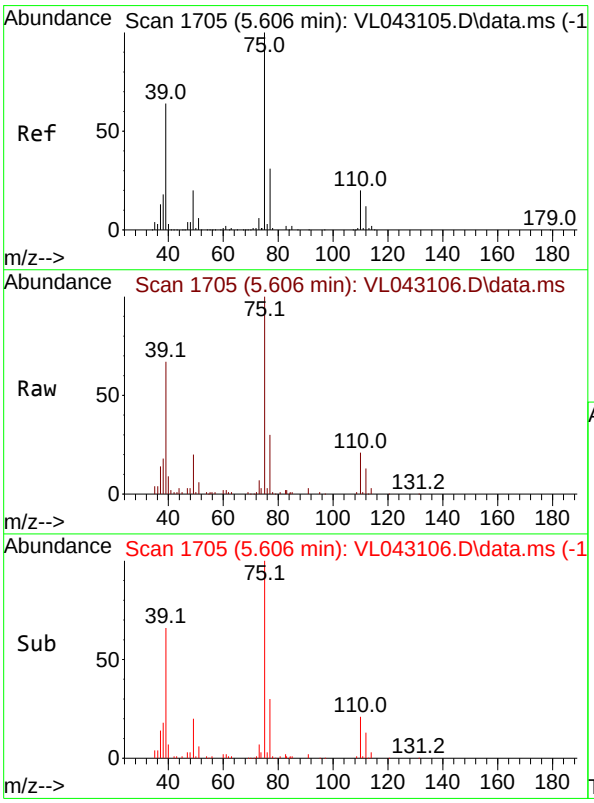
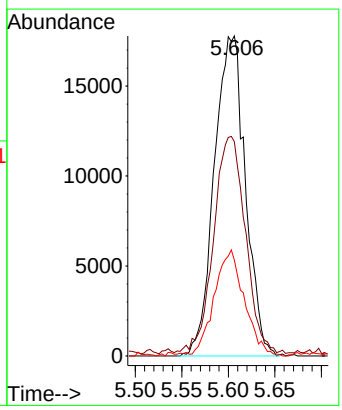
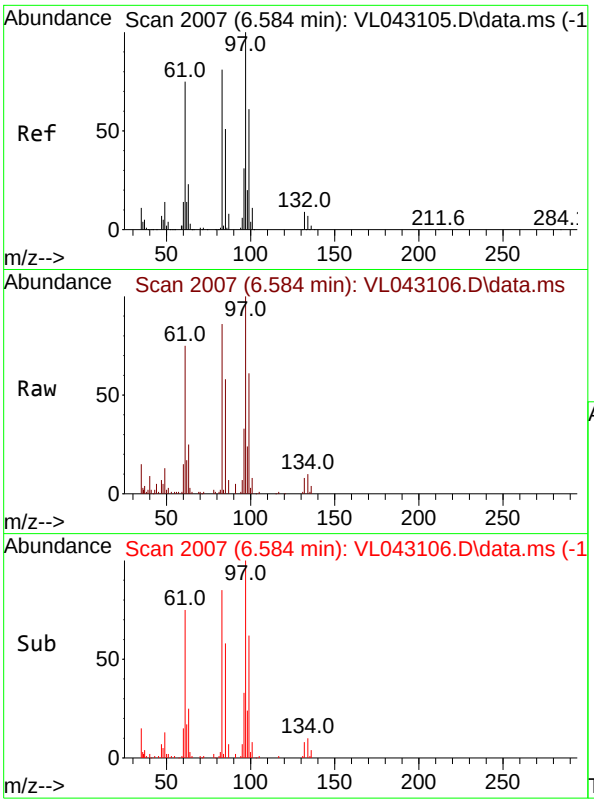


#46
cis-1,3-Dichloropropene
Concen: 2.105 ppbv m
RT: 5.606 min Scan# 1705
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 75 Resp: 41365

Ion	Ratio	Lower	Upper
75	100		
39	66.9	51.0	76.6
77	30.0	25.0	37.4

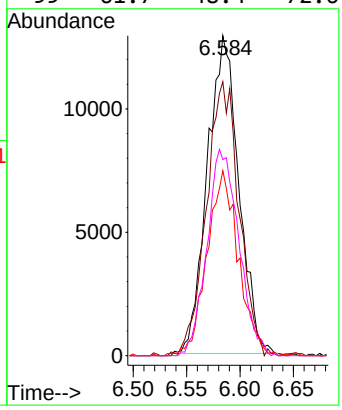




#47
1,1,2-Trichloroethane
Concen: 2.067 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 97 Resp: 2635

Ion	Ratio	Lower	Upper
97	100		
83	86.2	64.6	96.8
85	58.2	40.6	60.8
99	61.7	48.4	72.6



Instrument :
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ClientSampleId :
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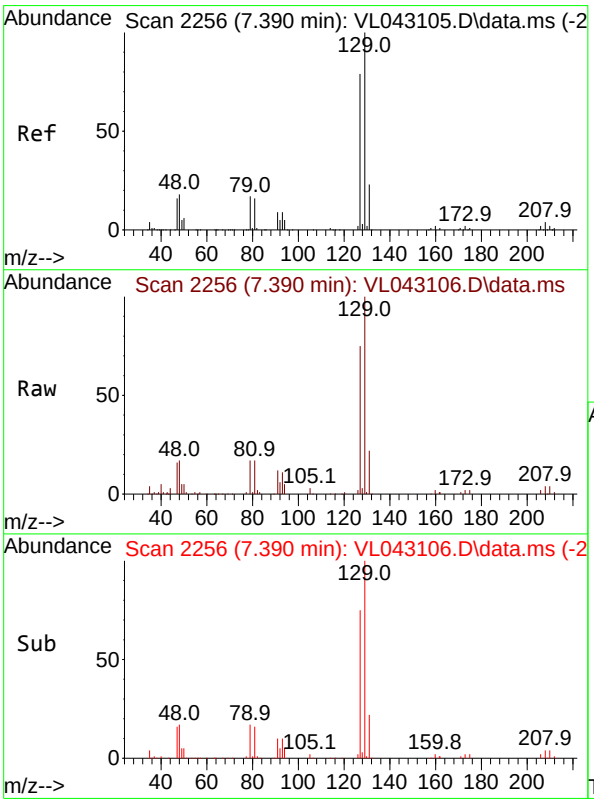
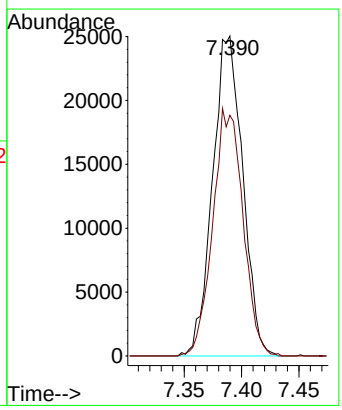
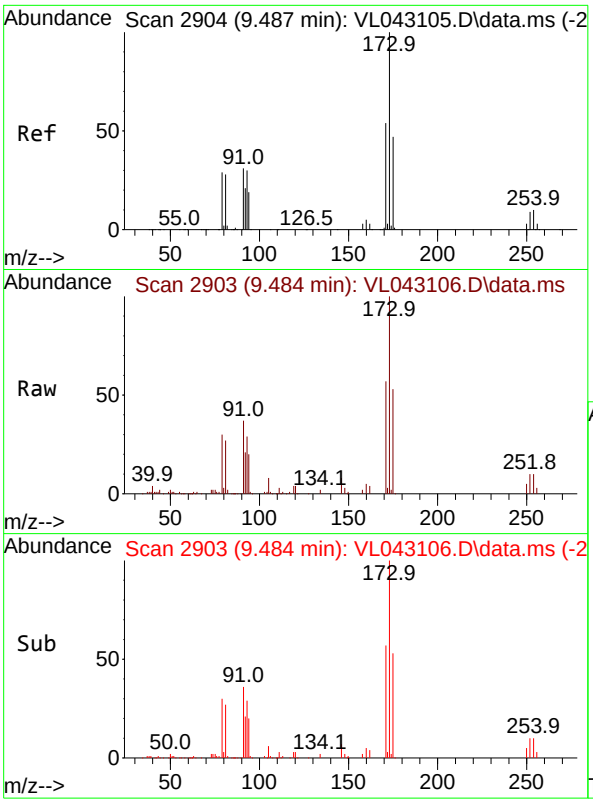


#48
Dibromochloromethane
Concen: 2.146 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:129 Resp: 45751

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.3	117.9

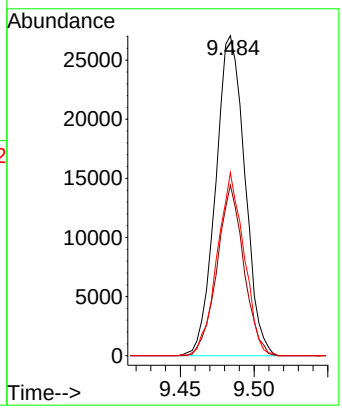




#49
Bromoform
Concen: 2.153 ppbv
RT: 9.484 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:173 Resp: 3731

Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.8	58.2
171	52.7	41.7	62.5



Instrument :
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ClientSampleId :
VSTDICC002

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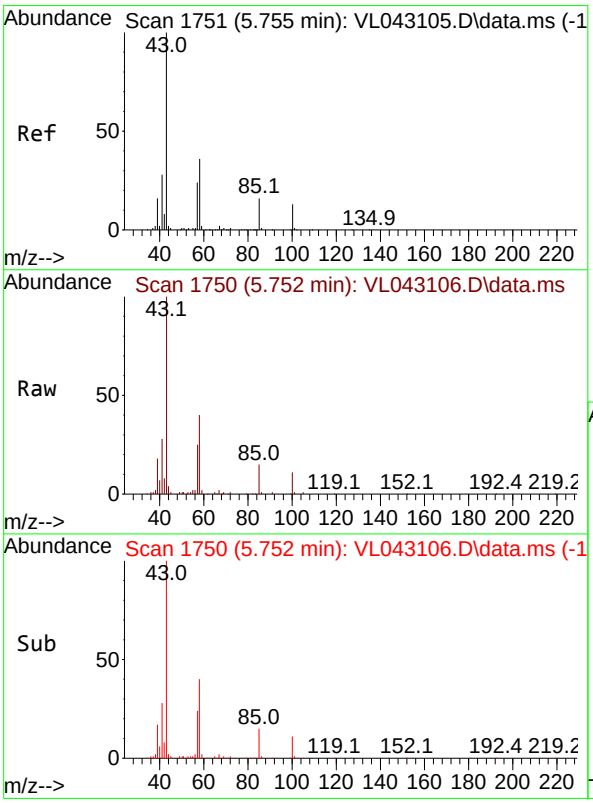
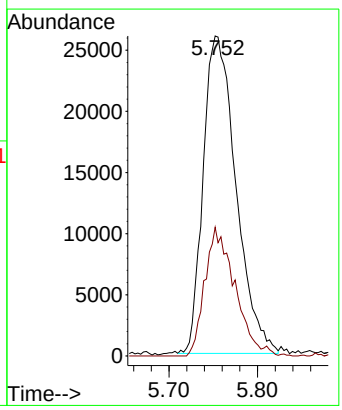
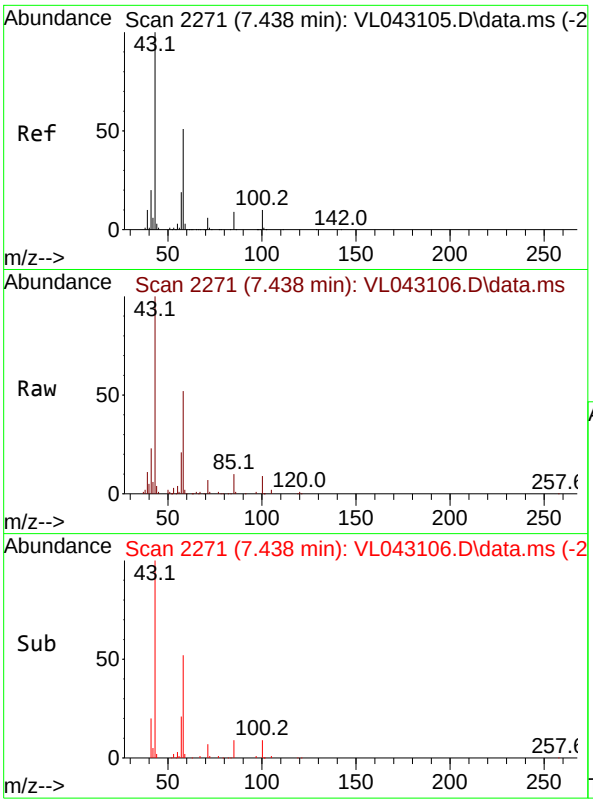


#50
4-Methyl-2-Pentanone
Concen: 2.089 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 66811

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.1	43.7

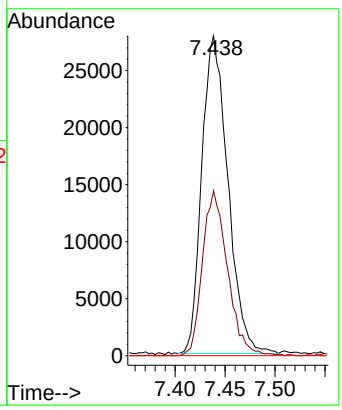




#51
2-Hexanone
Concen: 2.122 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 5064

Ion	Ratio	Lower	Upper
43	100		
58	49.8	40.4	60.6
98	0.0	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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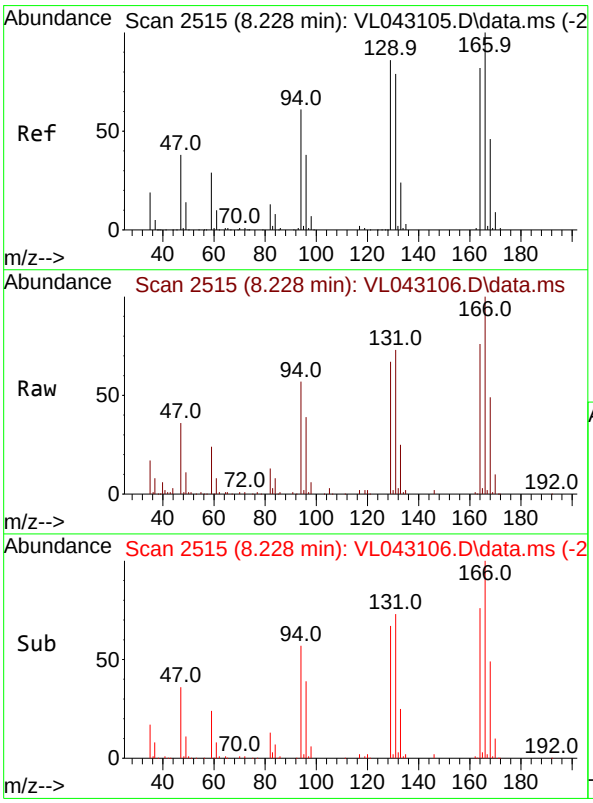
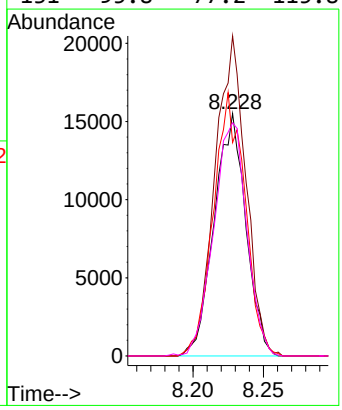
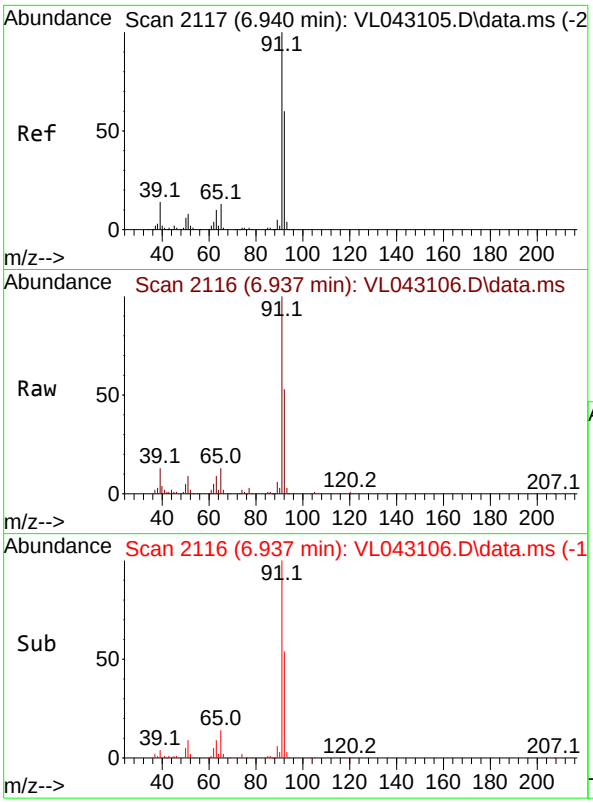


#52
Tetrachloroethene
Concen: 2.076 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:164 Resp: 24183

Ion	Ratio	Lower	Upper
164	100		
166	132.0	97.6	146.4
129	88.0	84.5	126.7
131	95.8	77.2	115.8

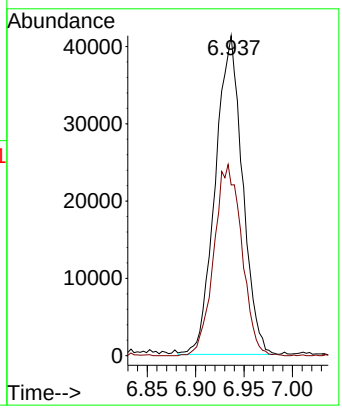




#53
Toluene
Concen: 2.104 ppbv
RT: 6.937 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 8066

Ion	Ratio	Lower	Upper
91	100		
92	61.5	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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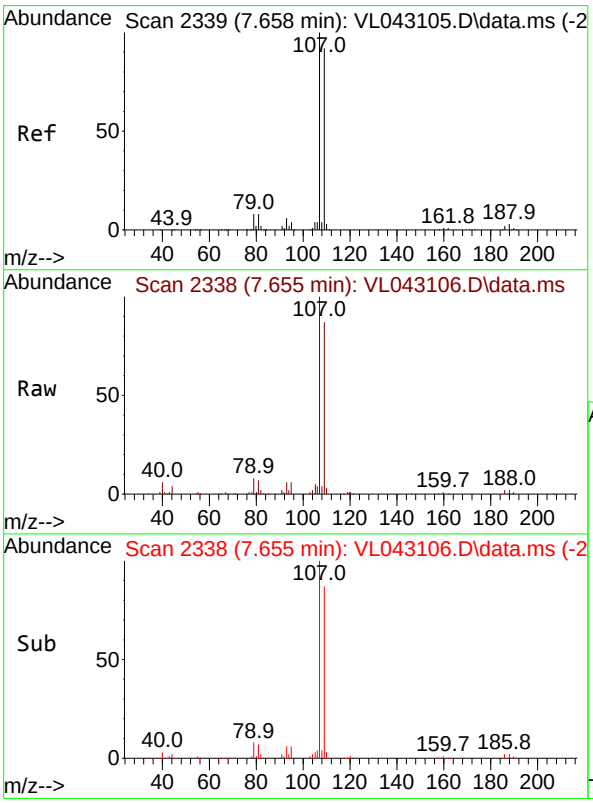
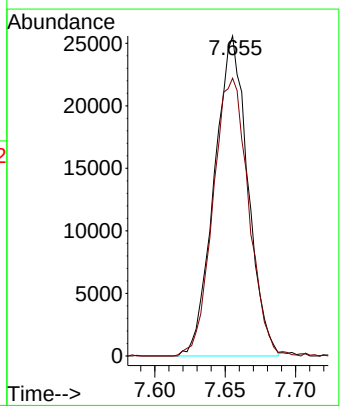
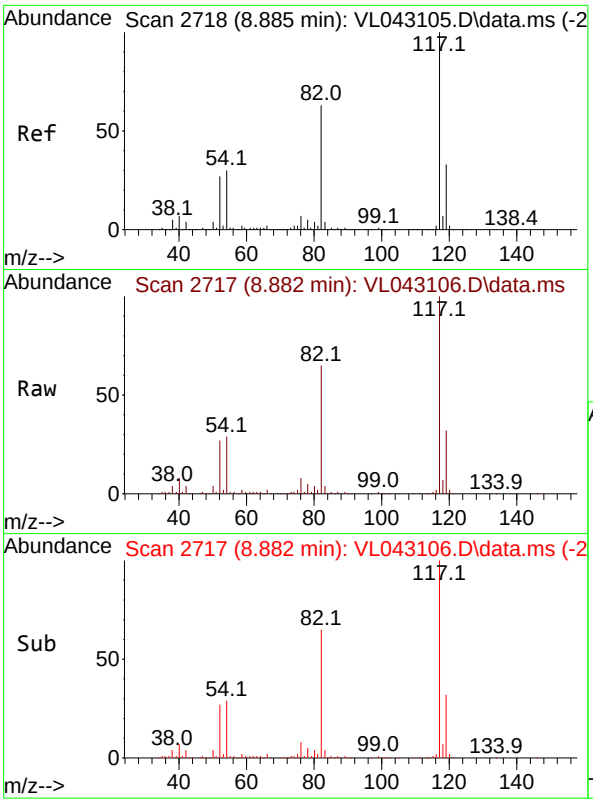


#54
1,2-Dibromoethane
Concen: 2.103 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:107 Resp: 42320

Ion	Ratio	Lower	Upper
107	100		
109	86.5	73.4	110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:117 Resp: 31360

Ion	Ratio	Lower	Upper
117	100		
82	63.9	53.8	80.8
119	32.3	25.4	38.0

Instrument :
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ClientSampleId :
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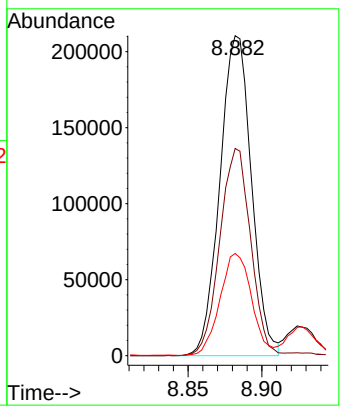
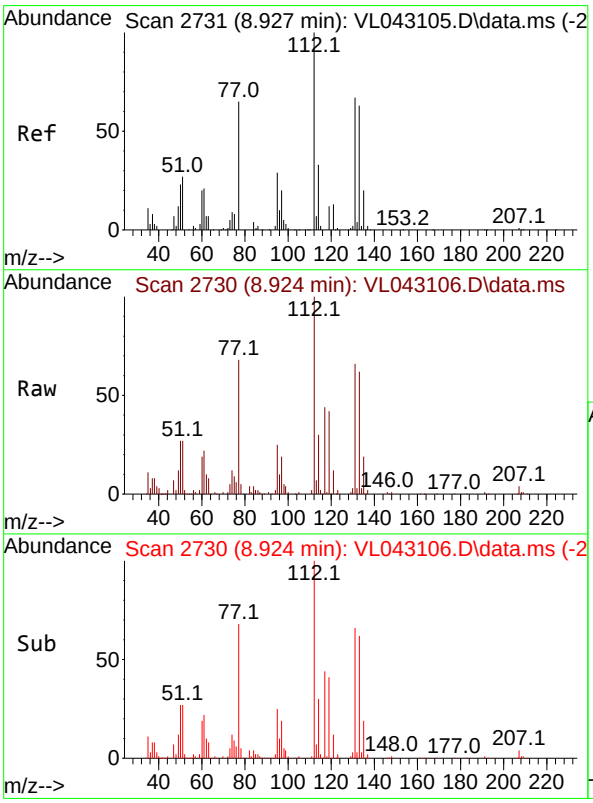
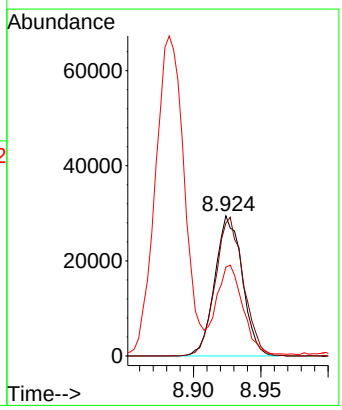


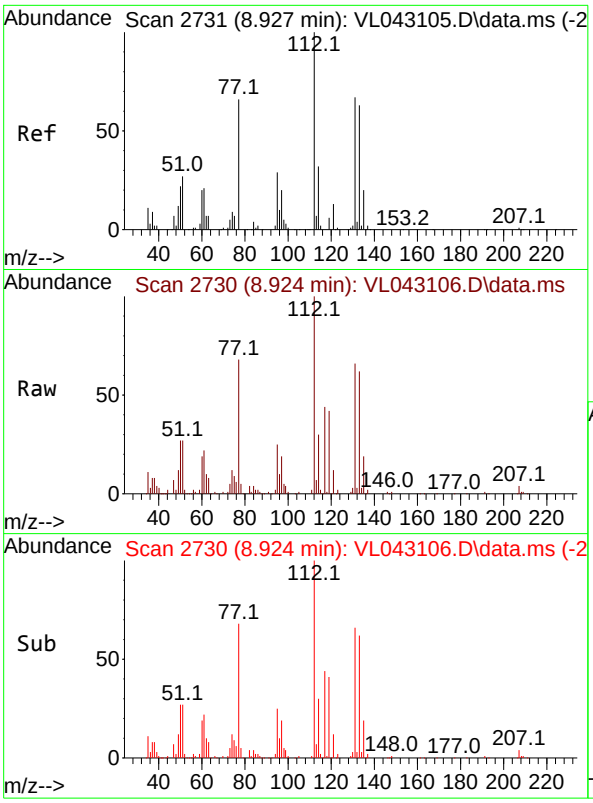


#56
1,1,1,2-Tetrachloroethane
Concen: 2.110 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:131 Resp: 41712

Ion	Ratio	Lower	Upper
131	100		
133	101.2	75.7	113.5
119	59.2	50.6	76.0

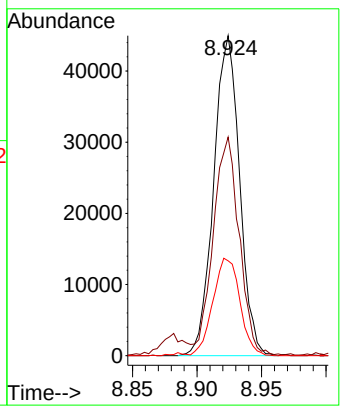




#57
Chlorobenzene
Concen: 2.138 ppbv
RT: 8.924 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:112 Resp: 6271

Ion	Ratio	Lower	Upper
112	100		
77	67.8	53.3	79.9
114	29.6	29.3	35.8



Instrument :
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ClientSampleId :
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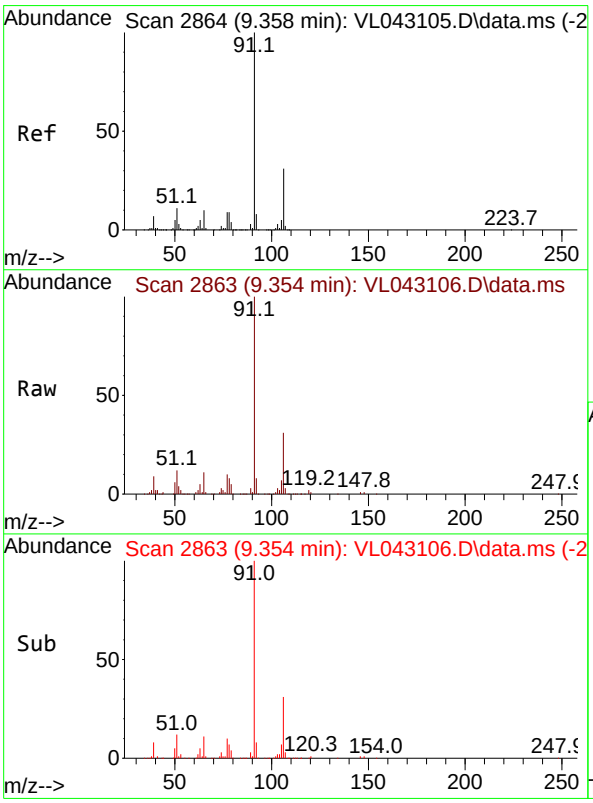
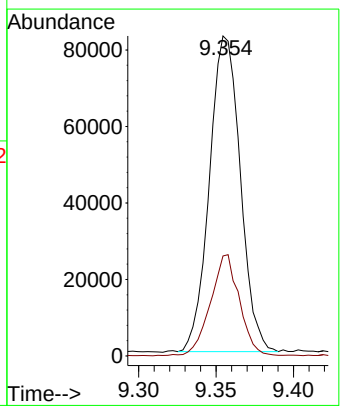
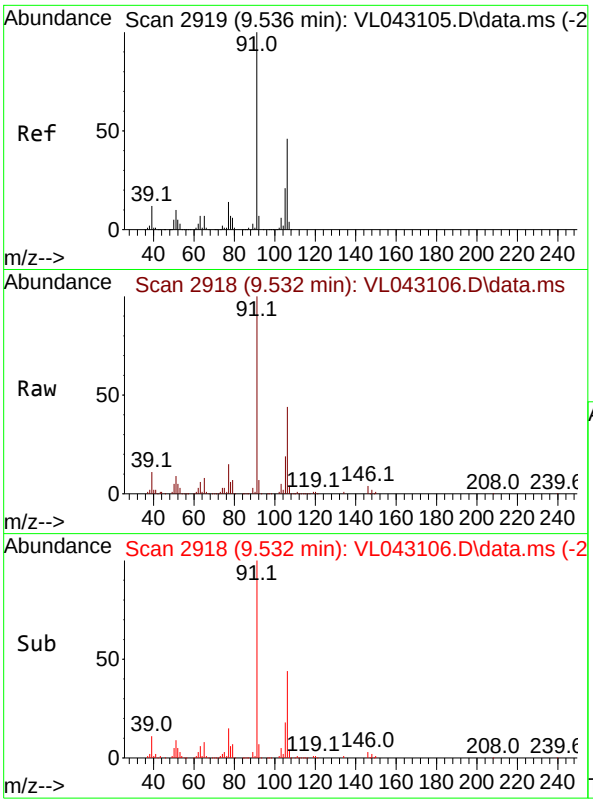


#58
Ethyl Benzene
Concen: 2.109 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 114403

Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.8	37.2





#59
m/p-Xylene
Concen: 4.311 ppbv m
RT: 9.532 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 18519

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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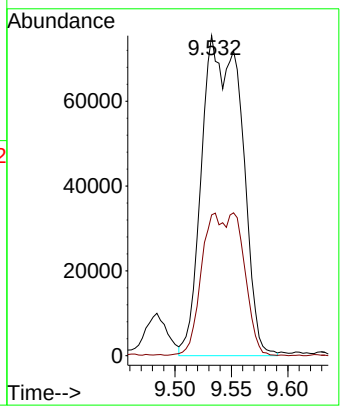
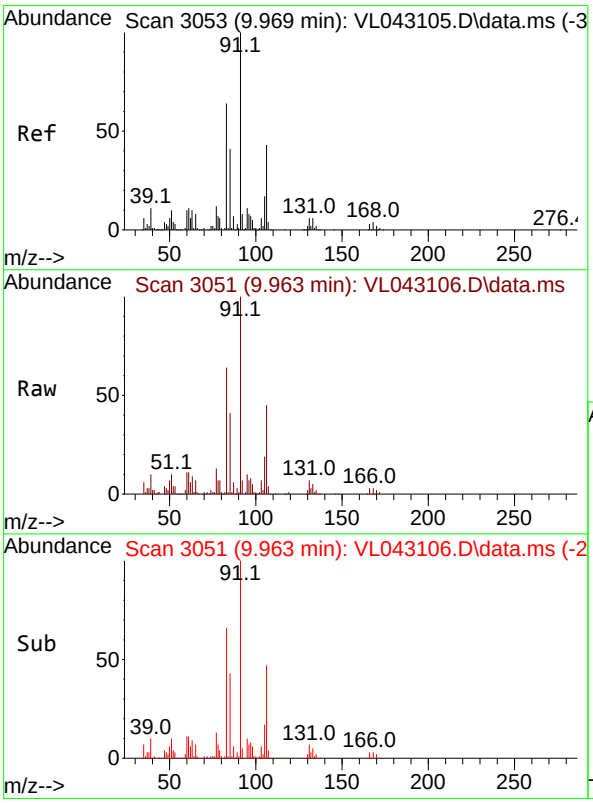
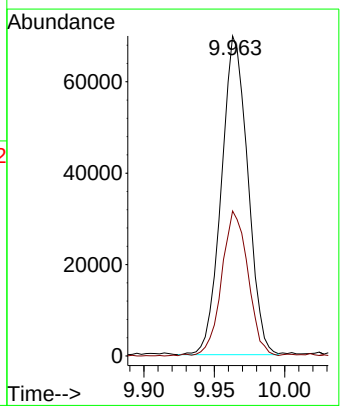


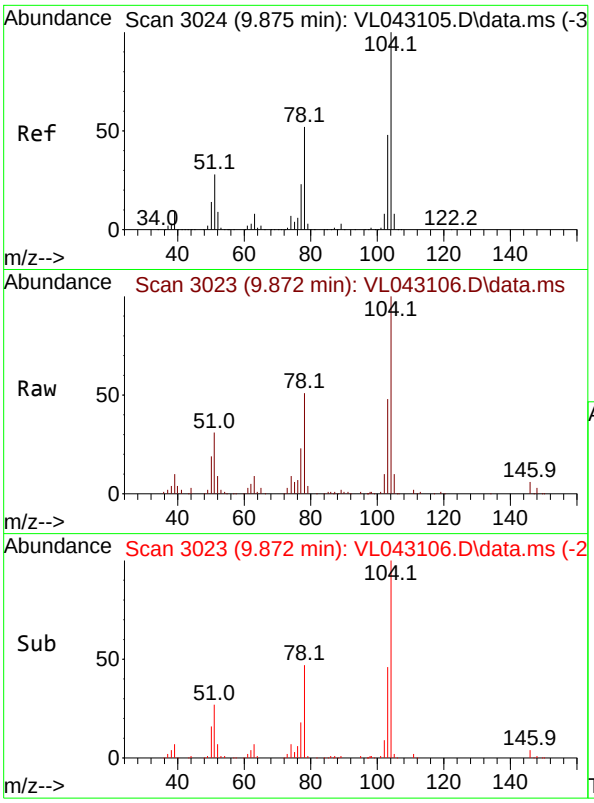


#60
o-Xylene
Concen: 2.152 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.006 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 91223

Ion	Ratio	Lower	Upper
91	100		
106	45.2	21.9	65.8

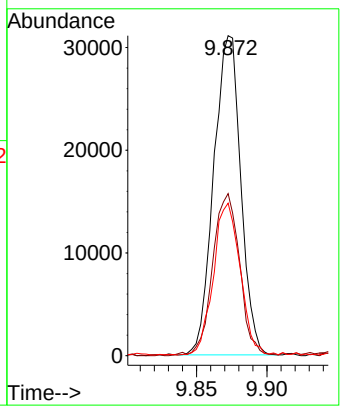




#61
Styrene
Concen: 2.175 ppbv
RT: 9.872 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:104 Resp: 4163

Ion	Ratio	Lower	Upper
104	100		
78	51.1	40.2	60.2
103	47.4	36.9	55.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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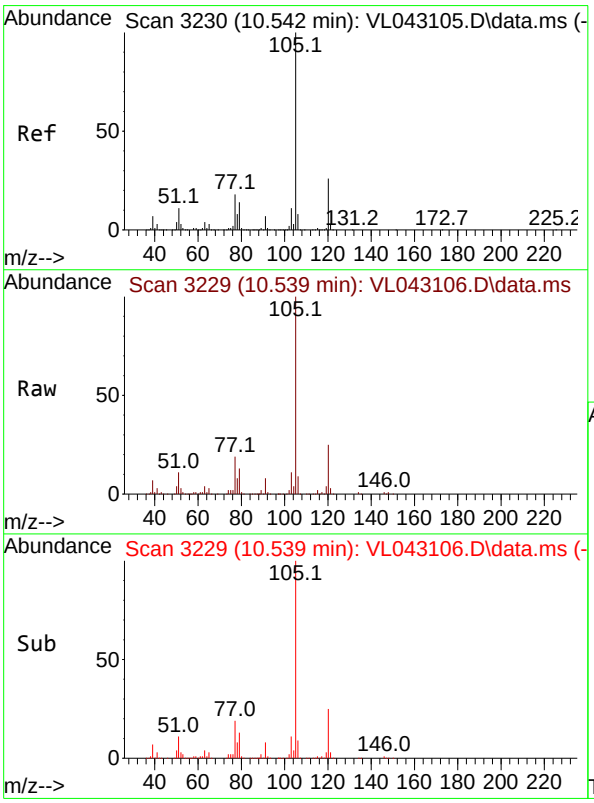
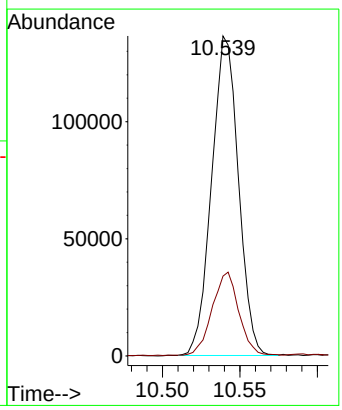
Supervised By :Mahesh Dadoda 10/16/2025

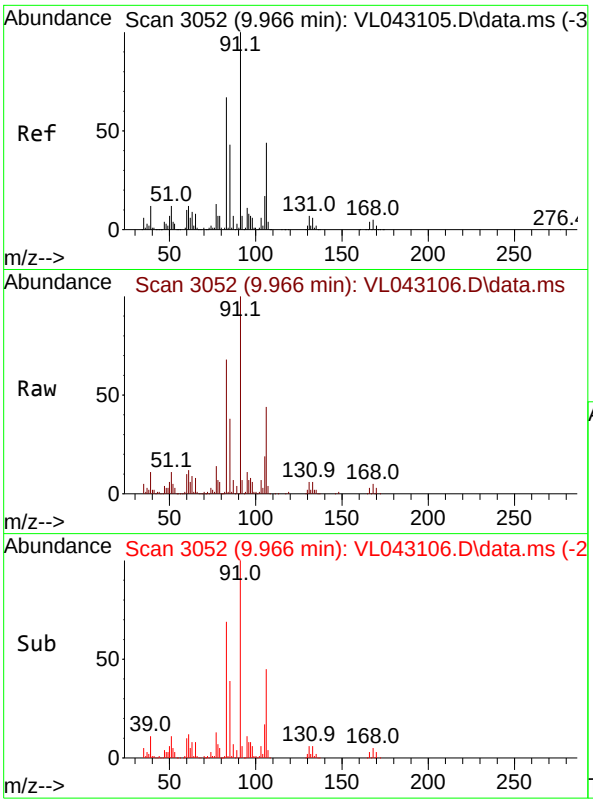


#62
Isopropylbenzene
Concen: 2.142 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 164073

Ion	Ratio	Lower	Upper
105	100		
120	26.1	20.2	30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 2.061 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 83 Resp: 5851

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	63.2	32.0	96.0

Instrument :
MSVOA_L
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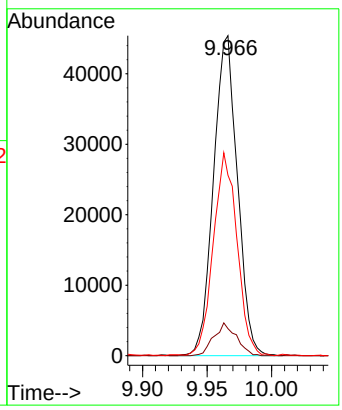
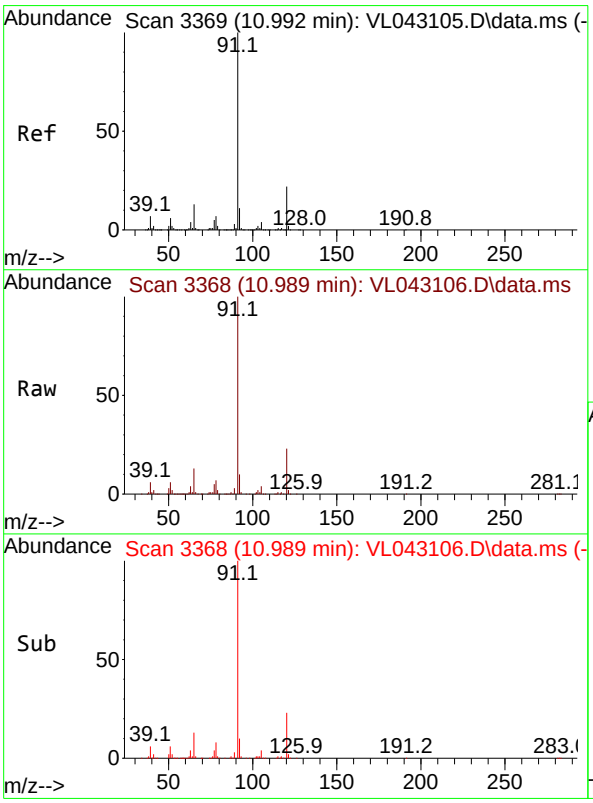
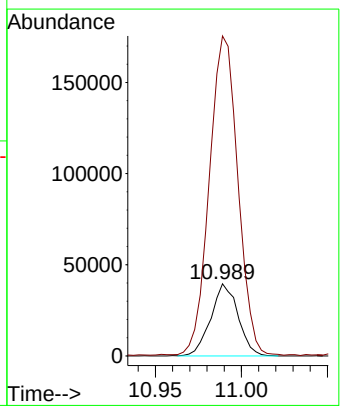


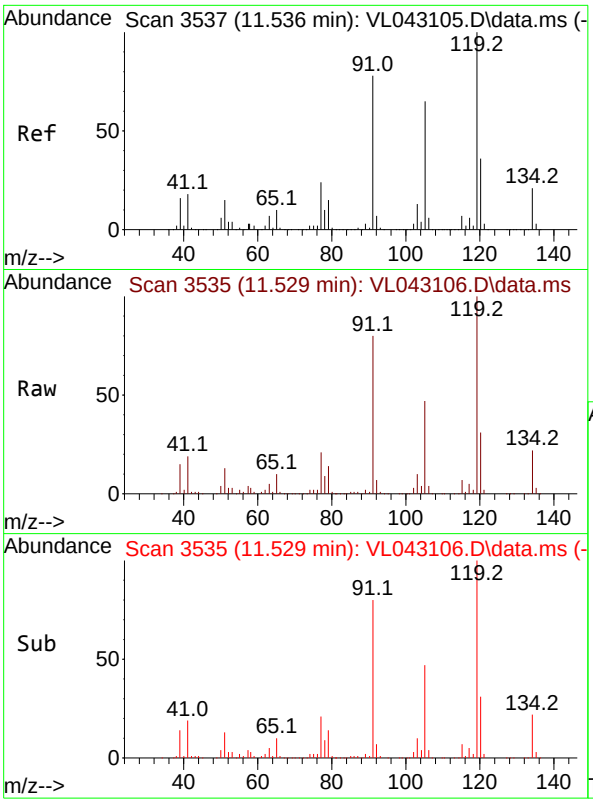


#64
n-propylbenzene
Concen: 2.152 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:120 Resp: 43648

Ion	Ratio	Lower	Upper
120	100		
91	462.4	361.6	542.4

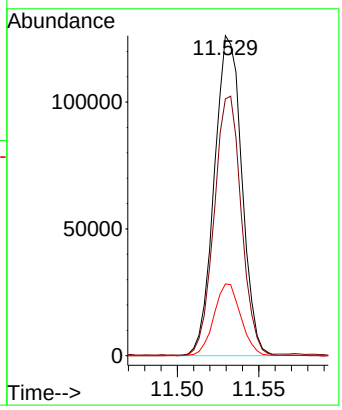




#65
tert-Butylbenzene
Concen: 2.192 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:119 Resp: 14830

Ion	Ratio	Lower	Upper
119	100		
91	80.2	63.4	95.0
134	22.0	17.3	25.9



Instrument :
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ClientSampleId :
VSTDICC002

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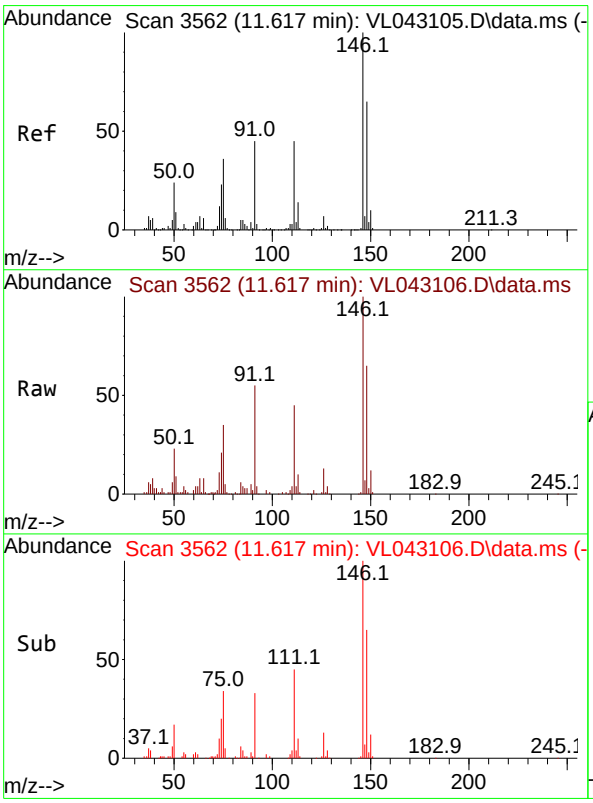
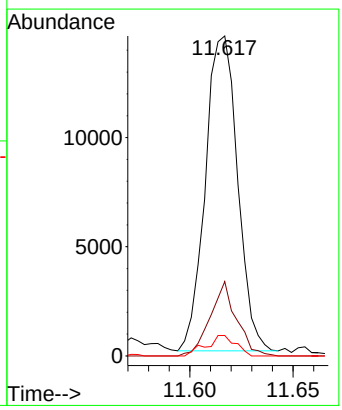
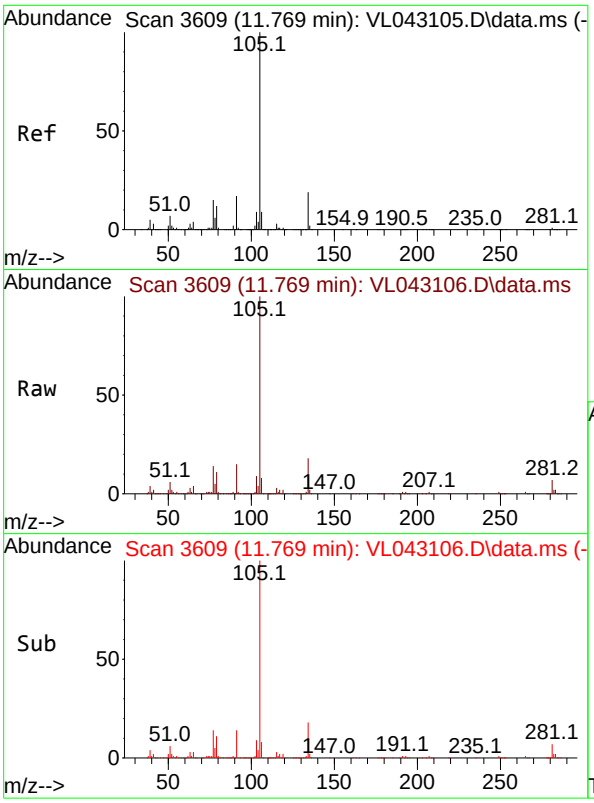


#66
Benzyl Chloride
Concen: 2.072 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 15656

Ion	Ratio	Lower	Upper
91	100		
126	19.2	14.6	22.0
128	5.9	4.6	6.8





#67
sec-Butylbenzene
Concen: 2.193 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 21052

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.5	23.3

Instrument :
MSVOA_L
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VSTDICC002

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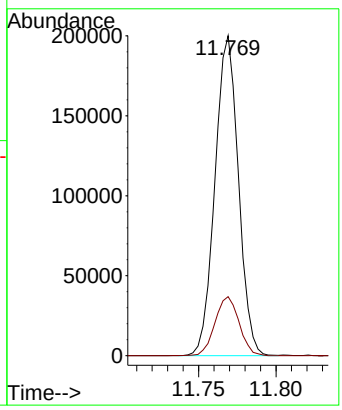
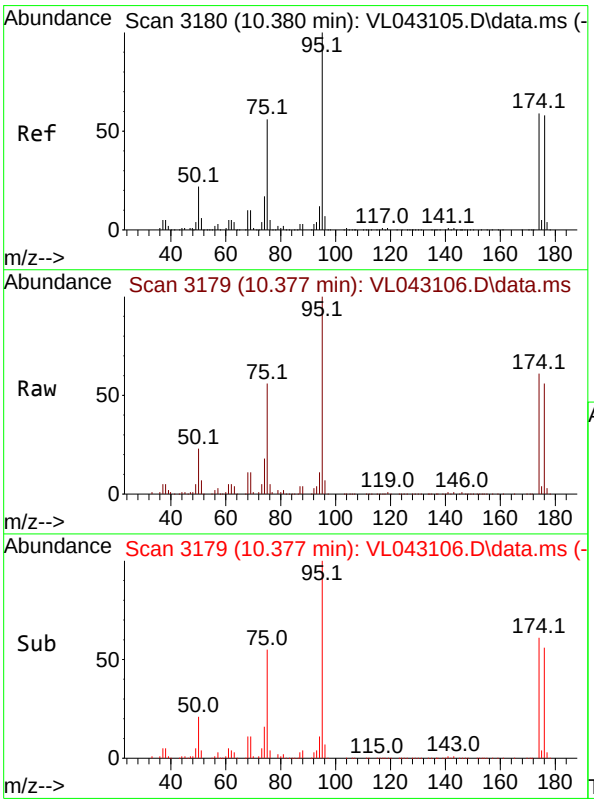
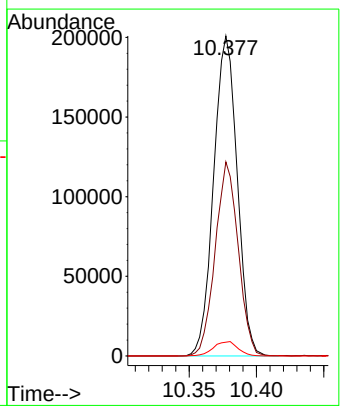


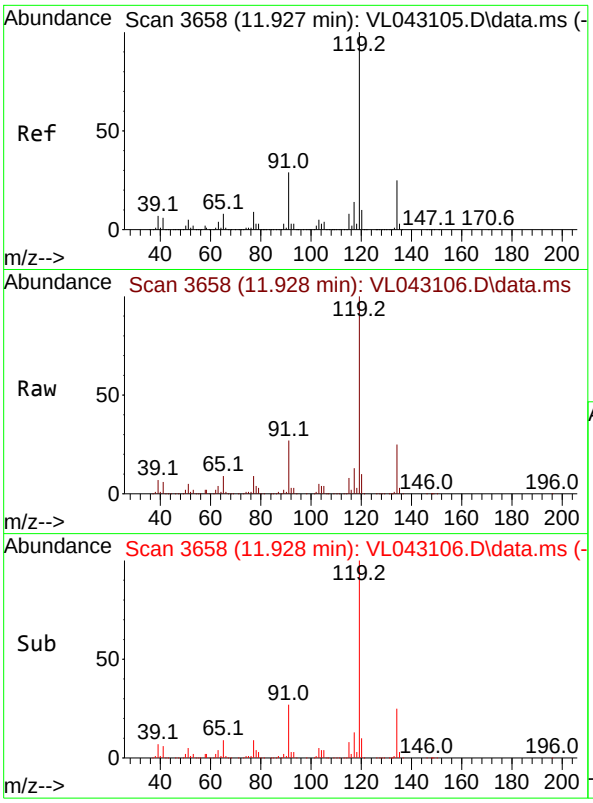


#68
1-Bromo-4-Fluorobenzene
Concen: 10.024 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 95 Resp: 244329

Ion	Ratio	Lower	Upper
95	100		
174	59.2	48.3	72.5
175	4.7	3.8	5.8

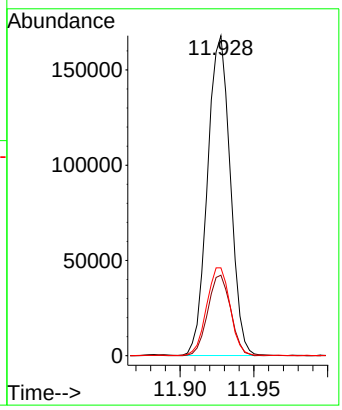




#69
p-Isopropyltoluene
Concen: 2.207 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:119 Resp: 18006

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	29.0	22.6	33.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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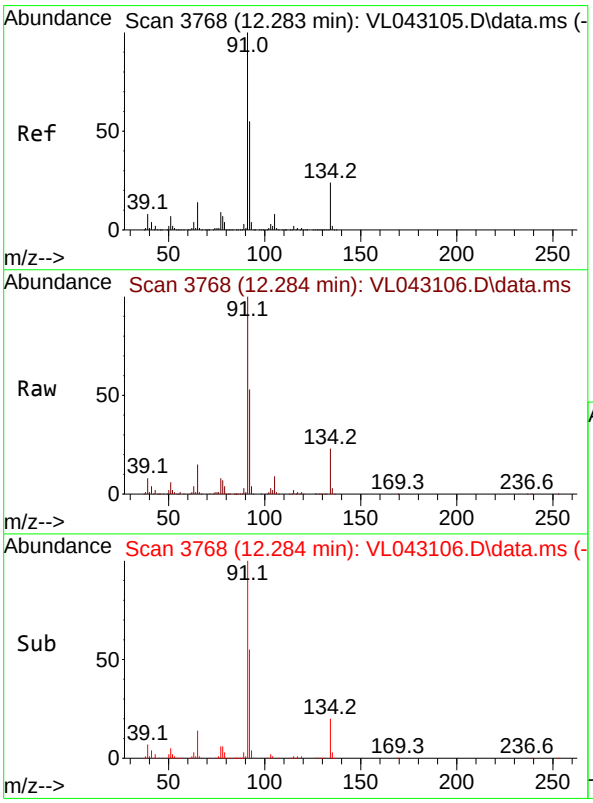
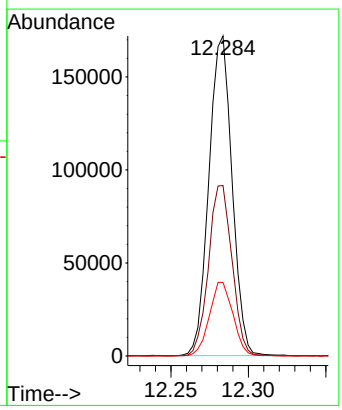
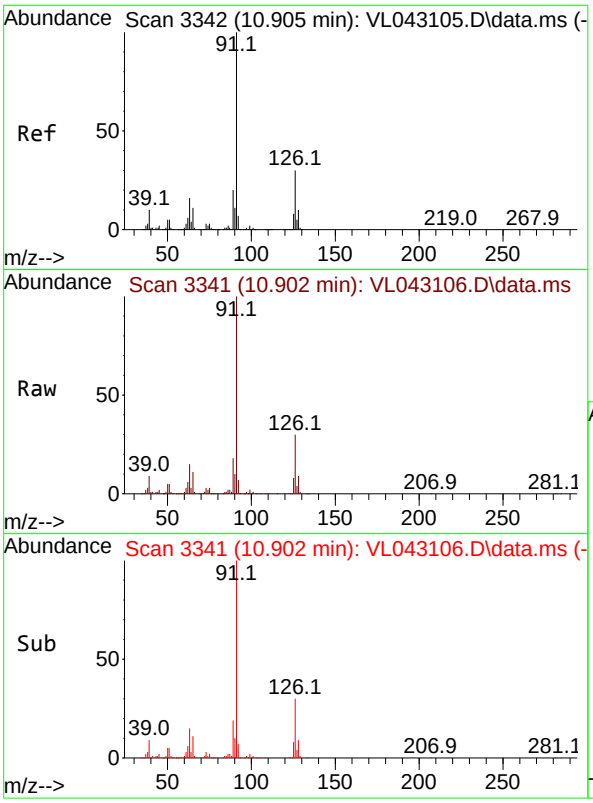


#70
n-Butylbenzene
Concen: 2.222 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 178676

Ion	Ratio	Lower	Upper
91	100		
92	54.2	44.5	66.7
134	23.4	19.3	28.9





#71
2-Chlorotoluene
Concen: 2.166 ppbv
RT: 10.902 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 12655

Ion	Ratio	Lower	Upper
91	100		
126	29.7	12.0	48.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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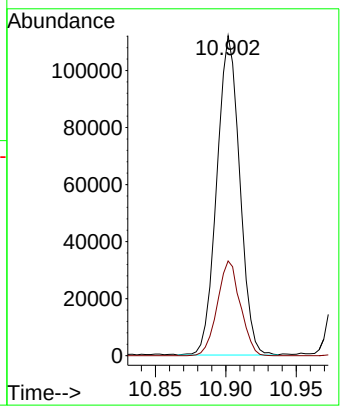
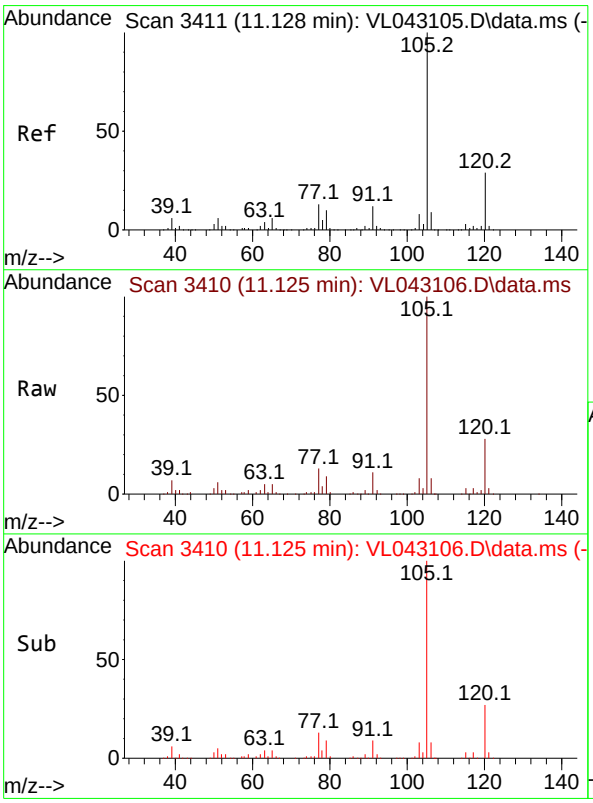
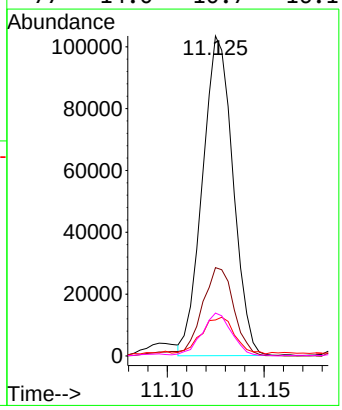


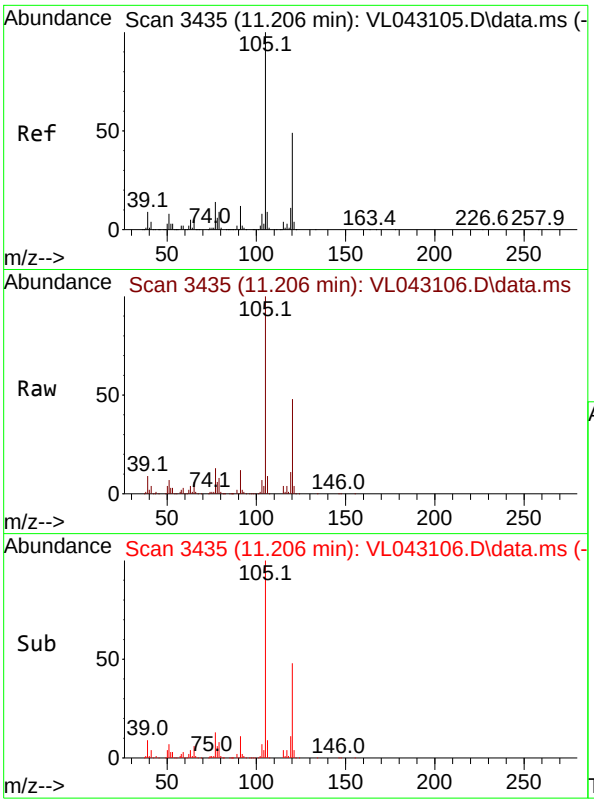


#72
4-Ethyltoluene
Concen: 2.172 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 113233

Ion	Ratio	Lower	Upper
105	100		
120	29.8	24.2	36.4
91	14.8	10.0	15.0
77	14.0	10.7	16.1

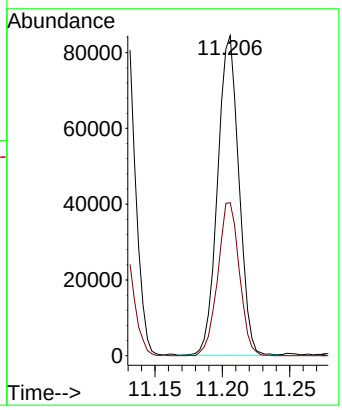




#73
1,3,5-Trimethylbenzene
Concen: 2.155 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 9265

Ion	Ratio	Lower	Upper
105	100		
120	47.9	39.0	58.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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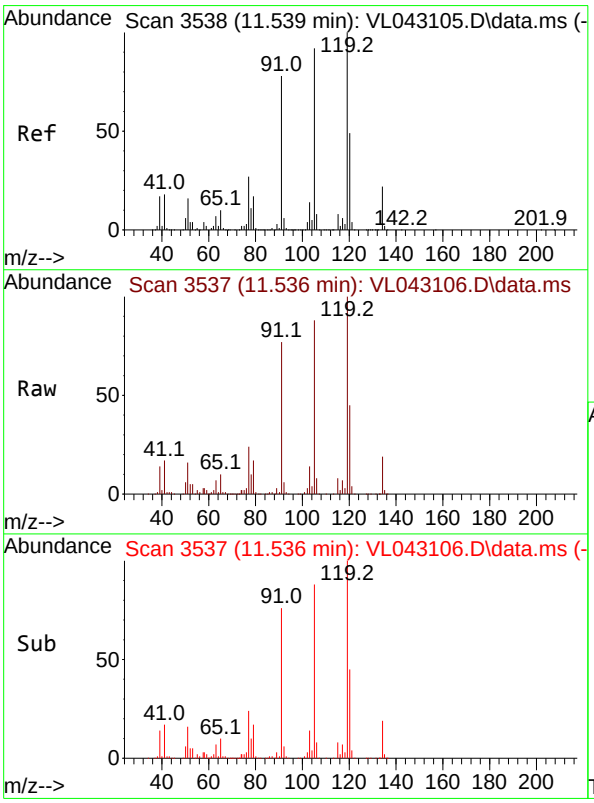
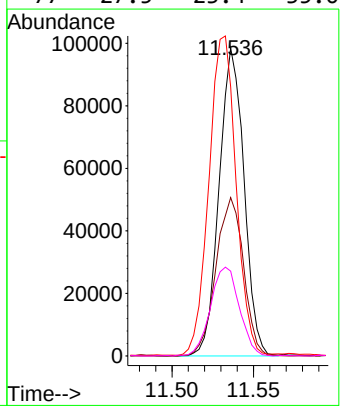
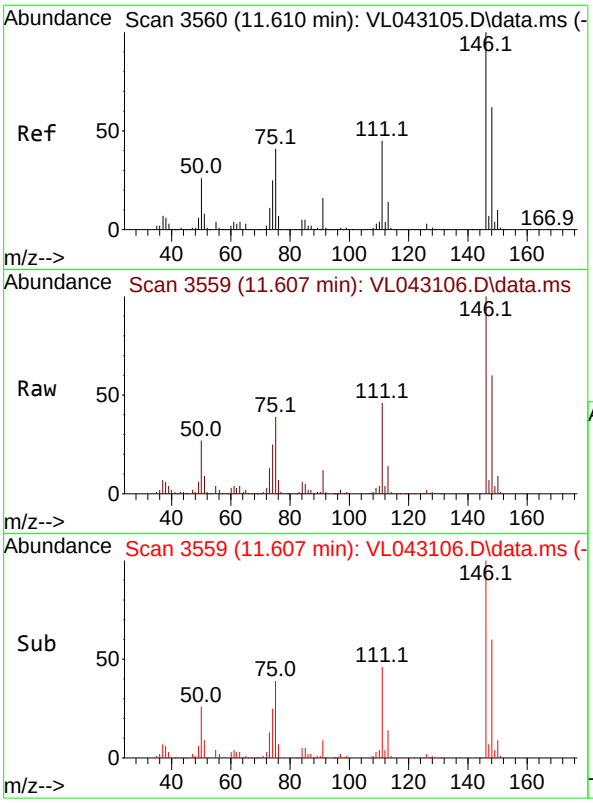


#74
1,2,4-Trimethylbenzene
Concen: 2.169 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 104352

Ion	Ratio	Lower	Upper
105	100		
120	51.4	42.8	64.2
91	87.0	68.3	102.5
77	27.5	23.4	35.0

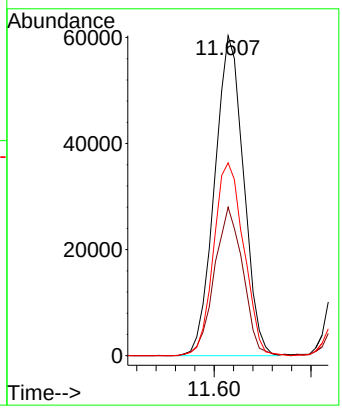




#75
1,3-Dichlorobenzene
Concen: 2.247 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:146 Resp: 6270

Ion	Ratio	Lower	Upper
146	100		
111	45.8	23.3	69.9
148	62.6	31.6	95.0



Instrument :
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ClientSampleId :
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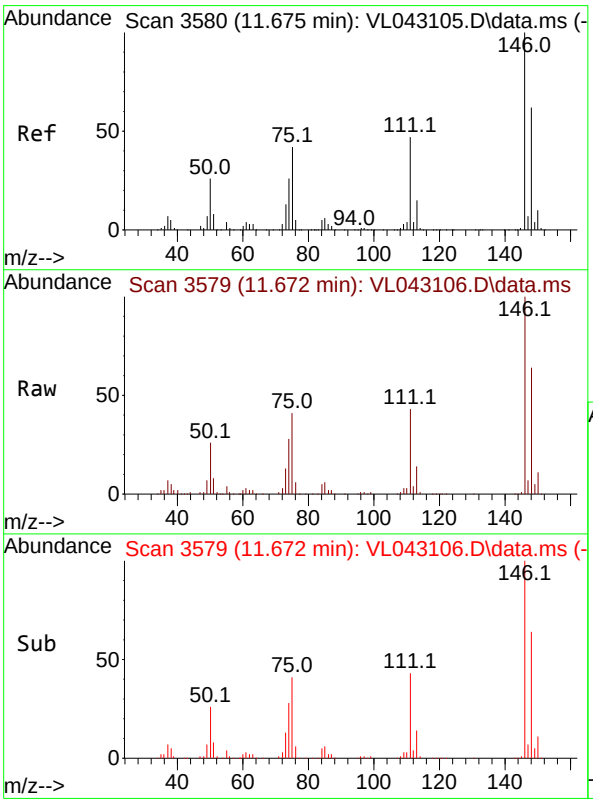
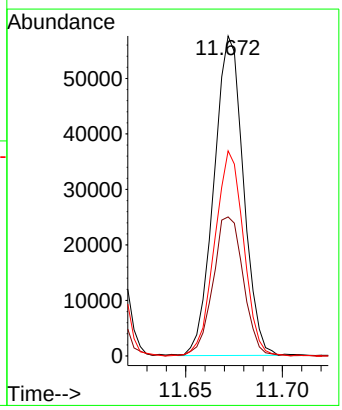
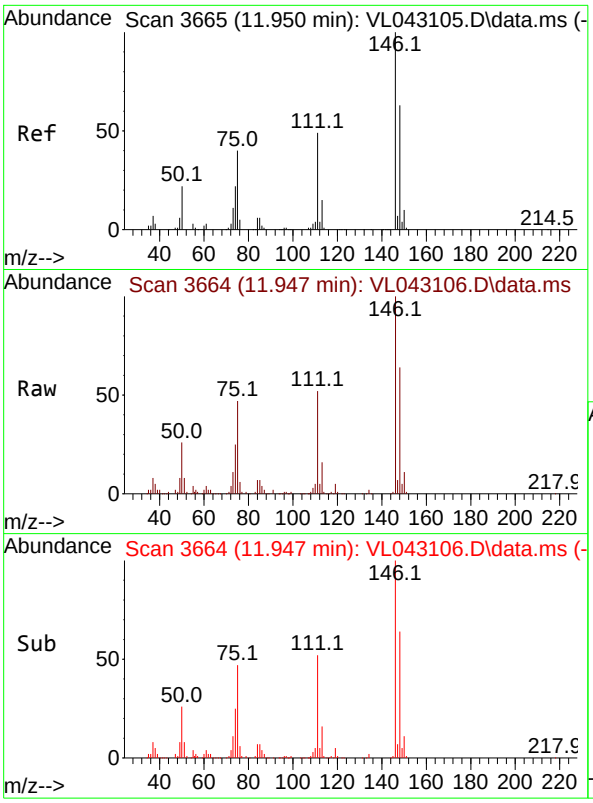


#76
1,4-Dichlorobenzene
Concen: 2.164 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:146 Resp: 60877

Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.4	67.0
148	63.3	31.6	94.7

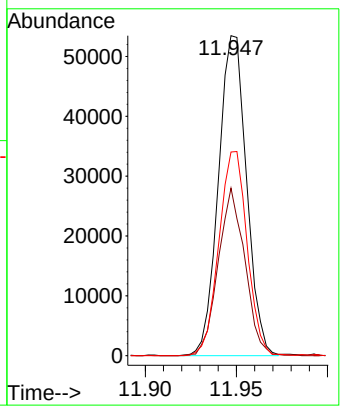




#77
1,2-Dichlorobenzene
Concen: 2.123 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:146 Resp: 5730

Ion	Ratio	Lower	Upper
146	100		
111	49.7	24.0	72.0
148	64.3	31.1	93.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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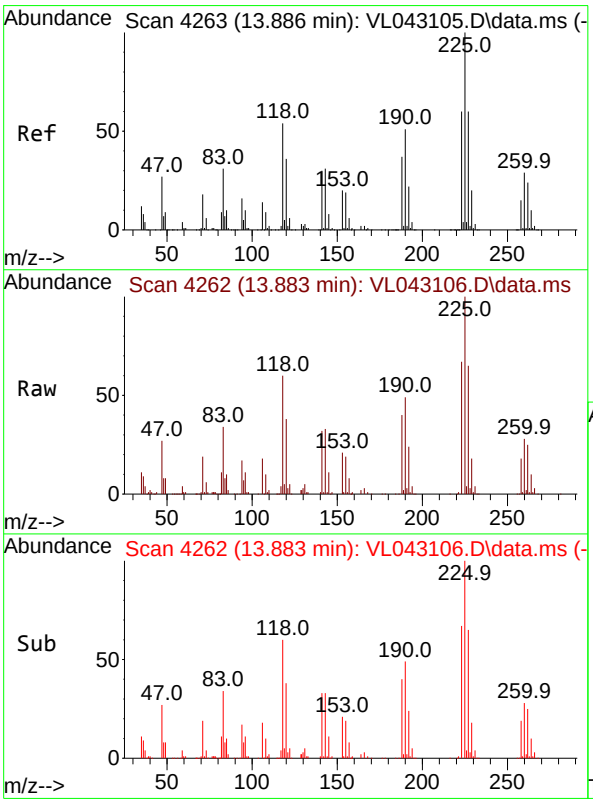
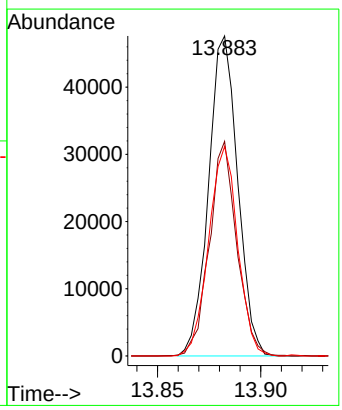
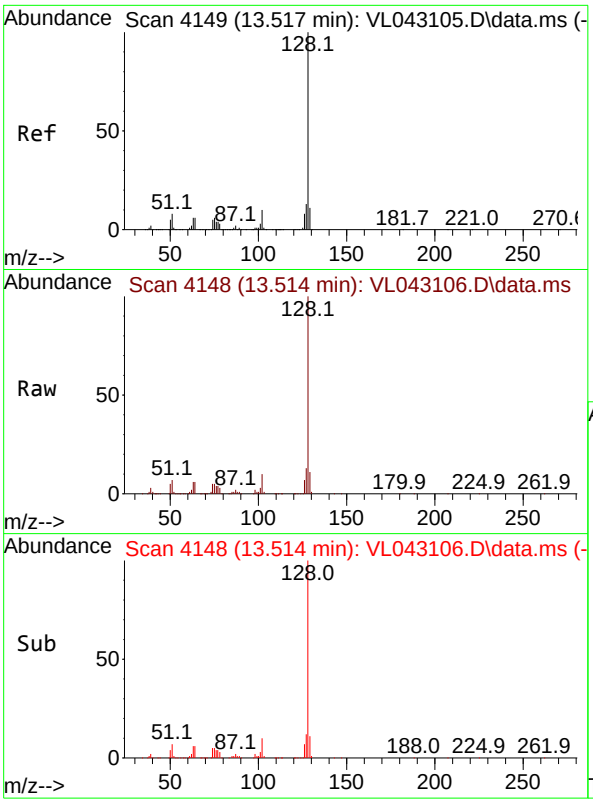


#78
Hexachloro-1,3-Butadiene
Concen: 2.239 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:225 Resp: 46796

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.2	75.4
227	65.2	49.6	74.4

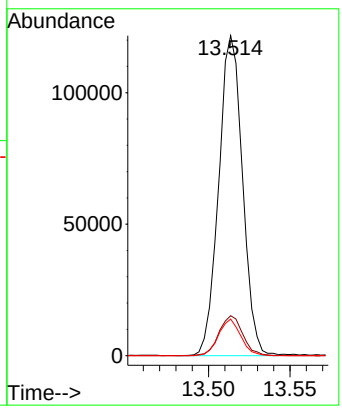




#79
Naphthalene
Concen: 2.488 ppbv
RT: 13.514 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:128 Resp: 12364

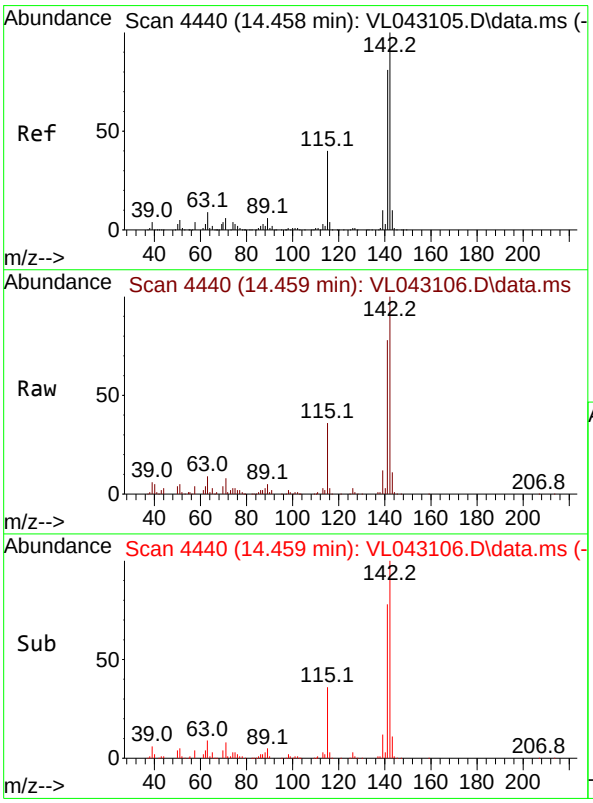
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.5	15.7
129	11.4	9.1	13.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

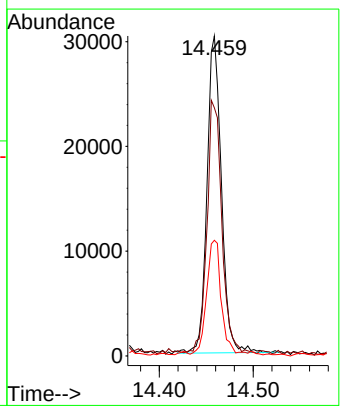
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

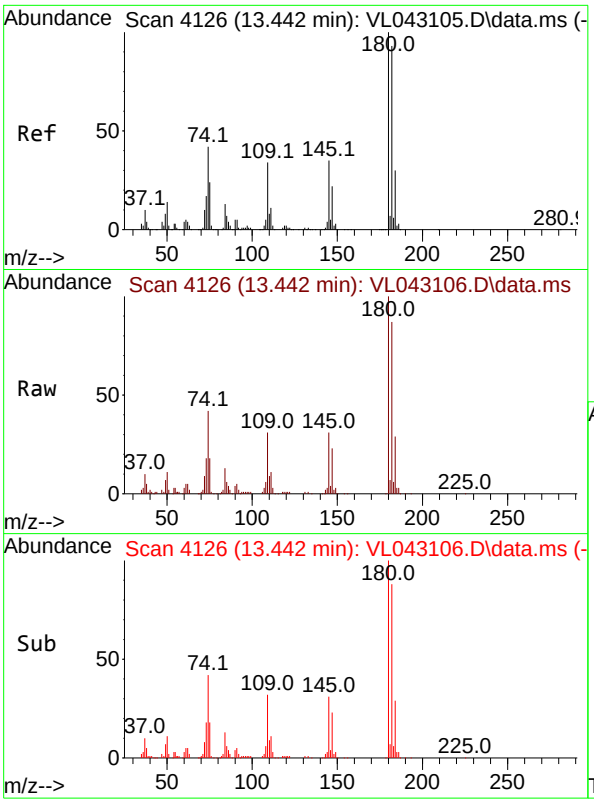


#80
Naphthalene,2-methyl-
Concen: 2.462 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:142 Resp: 32308

Ion	Ratio	Lower	Upper
142	100		
141	82.6	64.6	97.0
115	39.7	30.2	45.4

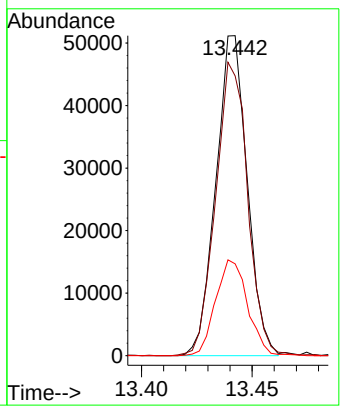




#81
1,2,4-Trichlorobenzene
Concen: 2.414 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:180 Resp: 5039

Ion	Ratio	Lower	Upper
180	100		
182	93.9	75.5	113.3
184	30.6	23.9	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043107.D
Acq On : 14 Oct 2025 12:01
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	102307	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	336268	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	305409	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	235307	9.912	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	15620	1.074	ppbv		99
3) Chlorodifluoromethane	1.476	51	16692	1.061	ppbv	#	91
4) Chloromethane	1.534	50	6353	1.103	ppbv		93
5) Vinyl Chloride	1.580	62	5694	1.008	ppbv		96
6) Bromomethane	1.667	94	3462	1.117	ppbv		98
7) Chloroethane	1.706	64	2615	1.132	ppbv	#	82
8) Dichlorotetrafluoroethane	1.554	85	12940	1.101	ppbv		98
9) Propene	1.483	41	7291	1.045	ppbv		100
10) Heptane	4.978	43	22011	1.100	ppbv		99
11) Trichlorofluoromethane	1.877	101	14927	1.049	ppbv		85
12) 1,1,2-Trichlorotrifluo...	2.140	101	12484	1.090	ppbv		99
13) Ethanol	1.722	45	3143	1.217	ppbv		83
14) Bromoethene	1.780	108	4440	1.043	ppbv	#	90
15) Acetone	1.835	43	15572	1.123	ppbv		90
16) 1,3-Butadiene	1.609	39	7157	1.089	ppbv		97
17) tert-Butyl alcohol	2.043	59	20941	1.106	ppbv	#	90
18) 1,1-Dichloroethene	2.036	96	5510	1.103	ppbv		88
19) Isopropyl Alcohol	1.887	45	9796	1.141	ppbv	#	85
20) Methylene Chloride	2.062	84	6261	1.149	ppbv		96
21) Allyl Chloride	2.094	41	10737	1.055	ppbv	#	82
22) trans-1,2-Dichloroethene	2.340	96	7119	1.193	ppbv		92
23) Vinyl Acetate	2.463	43	19477	0.964	ppbv		99
24) 1,1-Dichloroethane	2.405	63	12656	1.097	ppbv	#	94
25) Ethyl Acetate	2.832	43	37093	1.085	ppbv		98
26) Hexane	2.826	57	17152	1.089	ppbv		98
27) Carbon Disulfide	2.149	76	15760	1.092	ppbv	#	60
28) Methyl tert-Butyl Ether	2.441	73	7847	1.095	ppbv	#	87
29) Chloroform	2.845	83	24527	1.074	ppbv		90
30) Cyclohexane	3.855	84	14819	1.078	ppbv		97
31) cis-1,2-Dichloroethene	2.719	61	16311	1.084	ppbv		93
32) 1,1,1-Trichloroethane	3.366	97	24948	1.049	ppbv		98
34) 2-Butanone	2.557	43	23811	1.047	ppbv		100
35) Carbon Tetrachloride	3.761	117	24969	1.033	ppbv		93
36) Benzene	3.651	78	32940	1.040	ppbv		99
37) 1,2-Dichloroethane	3.217	62	19213	1.053	ppbv		100
38) Trichloroethene	4.544	130	13512	1.023	ppbv		96
39) 1,2-Dichloropropane	4.311	63	12435	1.073	ppbv		92
40) 1,4-Dioxane	4.593	88	5579m	1.077	ppbv		
41) Tetrahydrofuran	3.056	42	13251	1.044	ppbv		99
42) Bromodichloromethane	4.486	83	26069	1.032	ppbv	#	94
43) Methyl Methacrylate	4.878	69	17195	1.064	ppbv		97
44) 2,2,4-Trimethylpentane	4.638	57	57382	1.084	ppbv		96
45) t-1,3-Dichloropropene	6.415	75	16874m	1.045	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043107.D
Acq On : 14 Oct 2025 12:01
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	19830	1.029	ppbv		94
47) 1,1,2-Trichloroethane	6.577	97	12876	1.030	ppbv		98
48) Dibromochloromethane	7.383	129	21874	1.046	ppbv		97
49) Bromoform	9.480	173	17320	1.019	ppbv		96
50) 4-Methyl-2-Pentanone	5.752	43	33269m	1.061	ppbv		
51) 2-Hexanone	7.441	43	23817	1.018	ppbv	#	95
52) Tetrachloroethene	8.224	164	12319	1.079	ppbv		91
53) Toluene	6.930	91	39079	1.040	ppbv		98
54) 1,2-Dibromoethane	7.652	107	19711	0.999	ppbv		88
56) 1,1,1,2-Tetrachloroethane	8.920	131	20279	1.053	ppbv		96
57) Chlorobenzene	8.920	112	30824	1.079	ppbv		97
58) Ethyl Benzene	9.351	91	55420	1.049	ppbv		96
59) m/p-Xylene	9.552	91	88998m	2.127	ppbv		
60) o-Xylene	9.963	91	44925	1.088	ppbv		100
61) Styrene	9.869	104	19809	1.063	ppbv		98
62) Isopropylbenzene	10.535	105	81579	1.093	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.959	83	28230	1.021	ppbv		100
64) n-propylbenzene	10.985	120	21685	1.098	ppbv		98
65) tert-Butylbenzene	11.529	119	72781	1.105	ppbv		99
66) Benzyl Chloride	11.613	91	7918	1.076	ppbv		97
67) sec-Butylbenzene	11.765	105	103152	1.103	ppbv		100
69) p-Isopropyltoluene	11.924	119	88443	1.113	ppbv		99
70) n-Butylbenzene	12.280	91	86120	1.100	ppbv		98
71) 2-Chlorotoluene	10.898	91	60994	1.072	ppbv		99
72) 4-Ethyltoluene	11.121	105	53788	1.059	ppbv		98
73) 1,3,5-Trimethylbenzene	11.202	105	44786	1.070	ppbv		98
74) 1,2,4-Trimethylbenzene	11.532	105	52118	1.112	ppbv		95
75) 1,3-Dichlorobenzene	11.604	146	29186	1.074	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	29225	1.066	ppbv		98
77) 1,2-Dichlorobenzene	11.947	146	29146	1.109	ppbv		98
78) Hexachloro-1,3-Butadiene	13.879	225	23330	1.146	ppbv		99
79) Naphthalene	13.510	128	53930	1.114	ppbv		98
80) Naphthalene,2-methyl-	14.458	142	10851	0.849	ppbv		94
81) 1,2,4-Trichlorobenzene	13.439	180	22161	1.090	ppbv		98

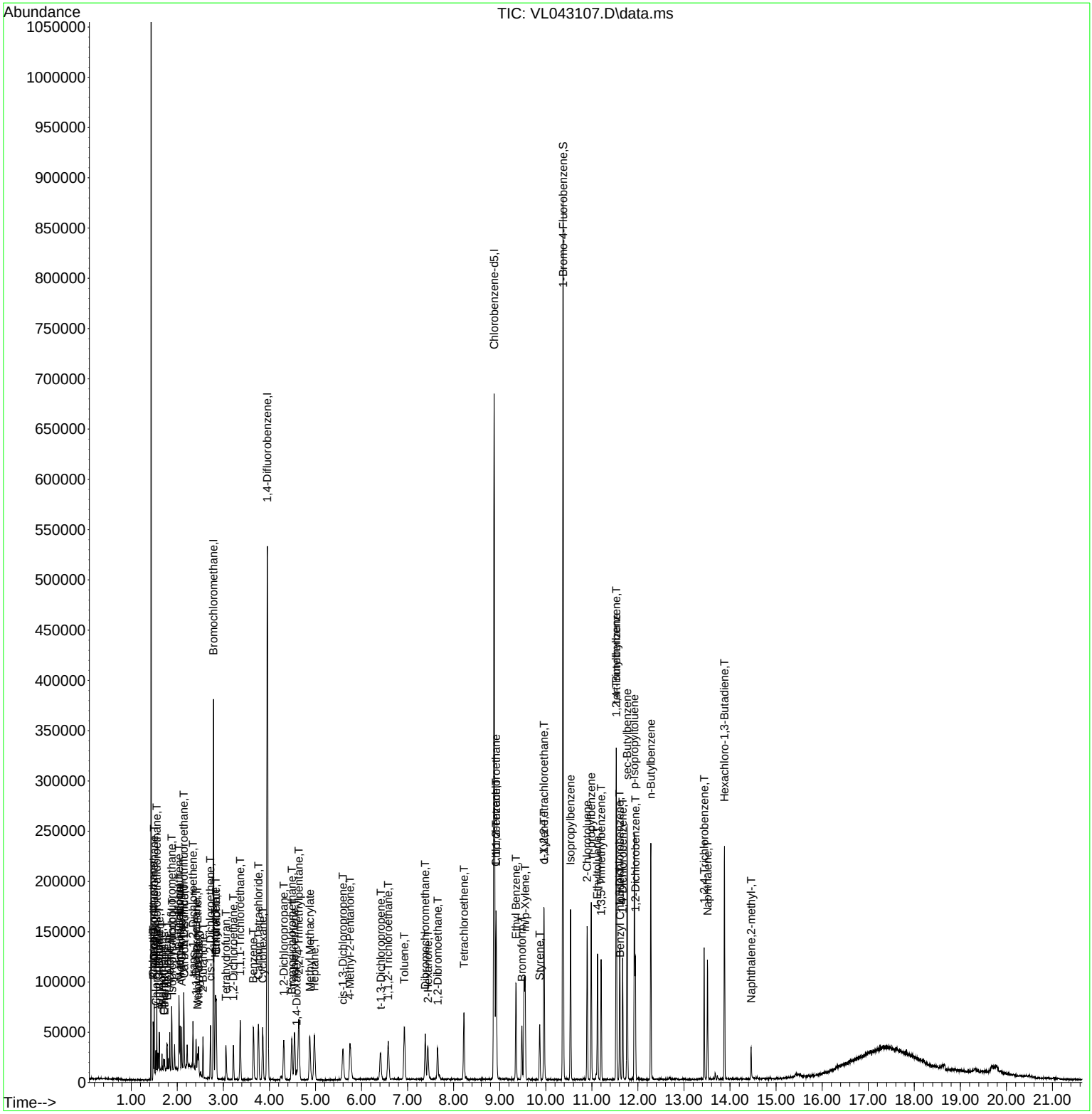
(#) = qualifier out of range (m) = manual integration (+) = signals summed

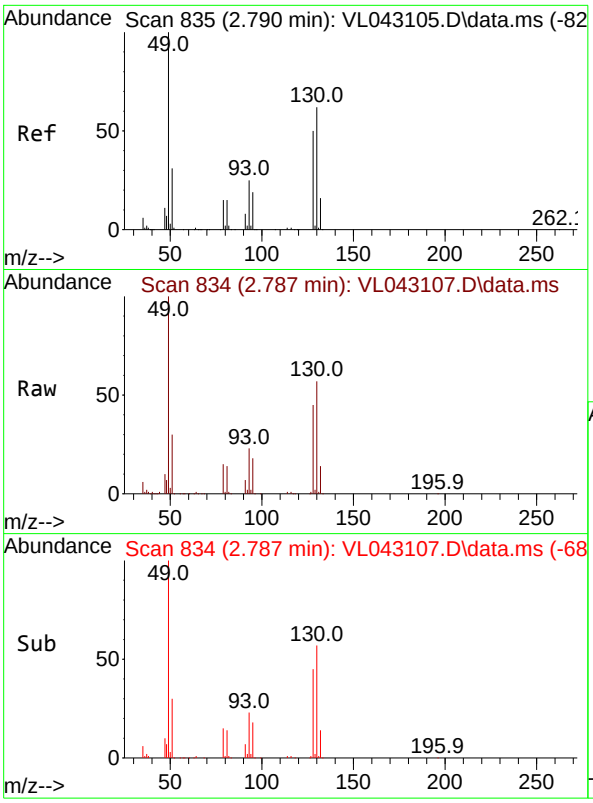
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043107.D
Acq On : 14 Oct 2025 12:01
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

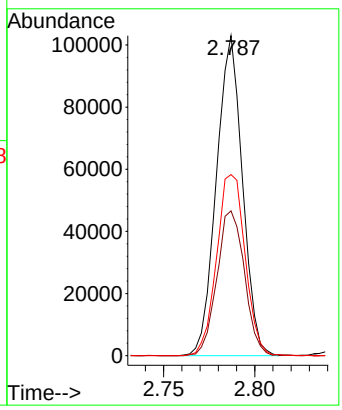




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 49 Resp: 10230

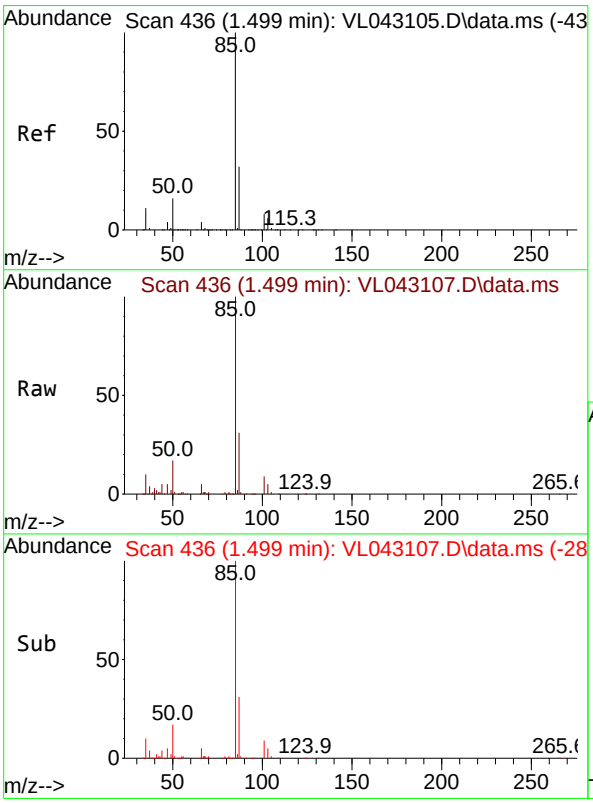
Ion	Ratio	Lower	Upper
49	100		
128	48.0	24.4	73.4
130	62.0	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

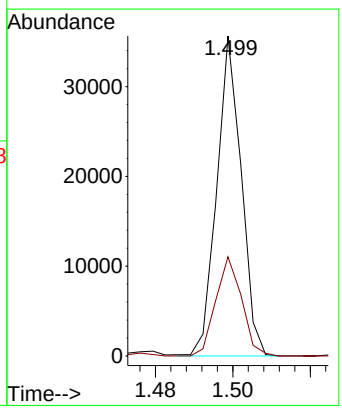
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

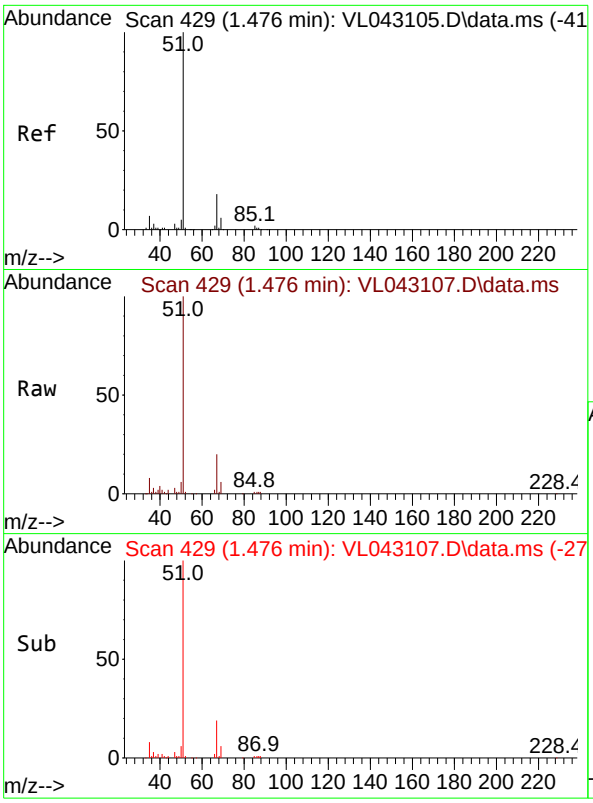


#2
Dichlorodifluoromethane
Concen: 1.074 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 15620

Ion	Ratio	Lower	Upper
85	100		
87	31.0	25.3	37.9

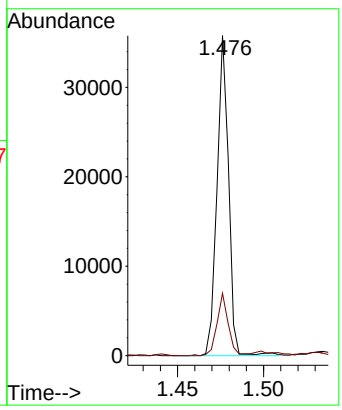




#3
Chlorodifluoromethane
Concen: 1.061 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 51 Resp: 1669

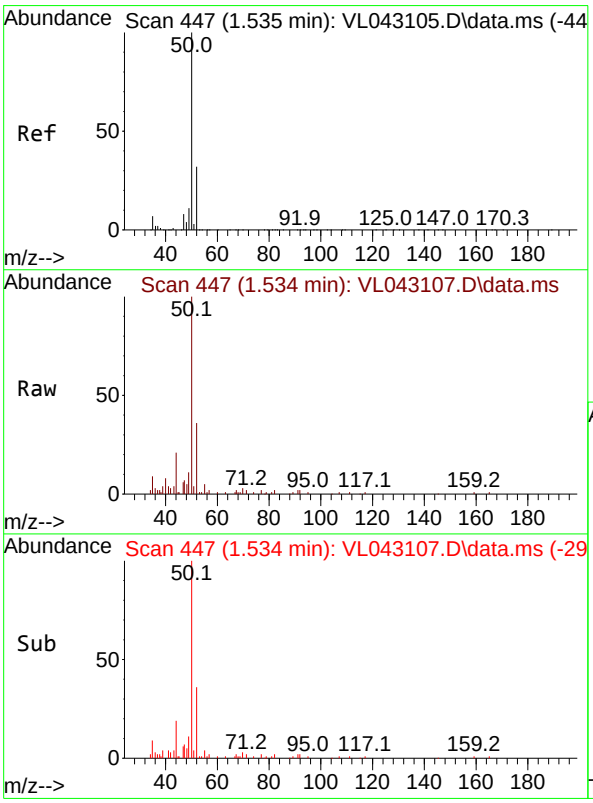
Ion	Ratio	Lower	Upper
51	100		
67	22.8	15.1	22.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

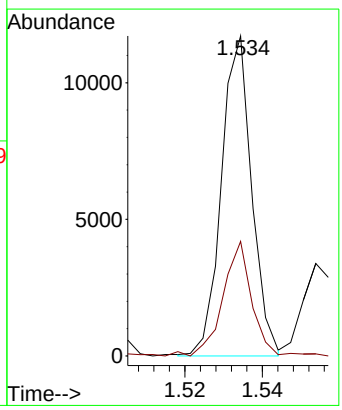
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

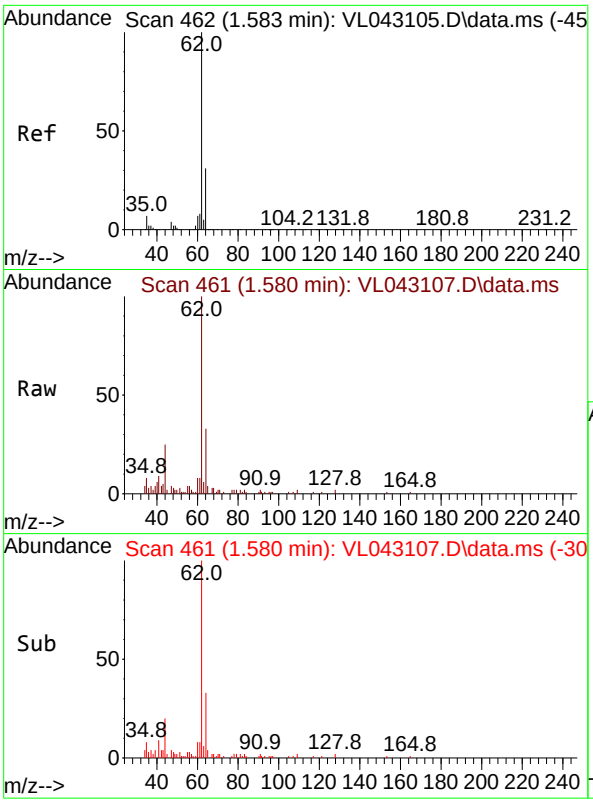


#4
Chloromethane
Concen: 1.103 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 50 Resp: 6353

Ion	Ratio	Lower	Upper
50	100		
52	35.6	25.2	37.8

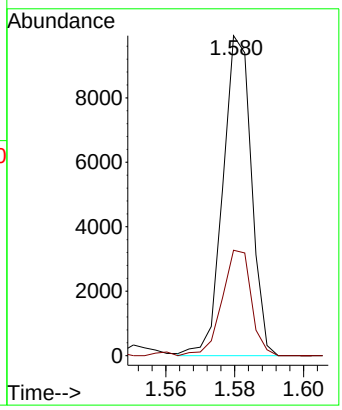




#5
Vinyl Chloride
Concen: 1.008 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 62 Resp: 569

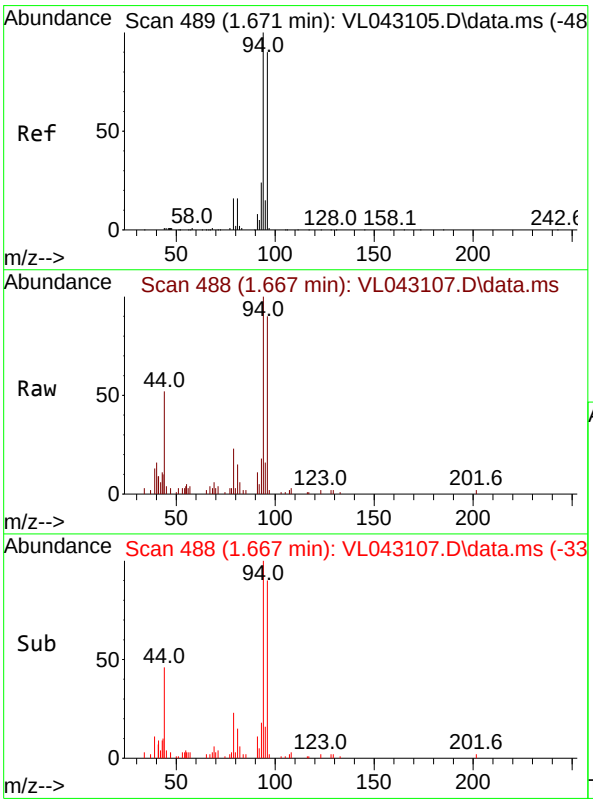
Ion	Ratio	Lower	Upper
62	100		
64	32.9	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

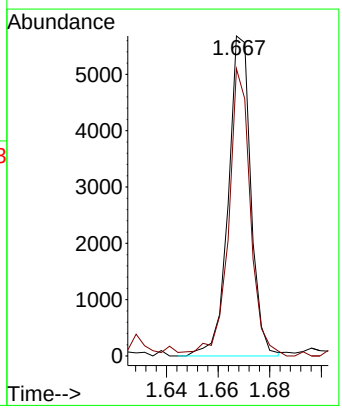
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

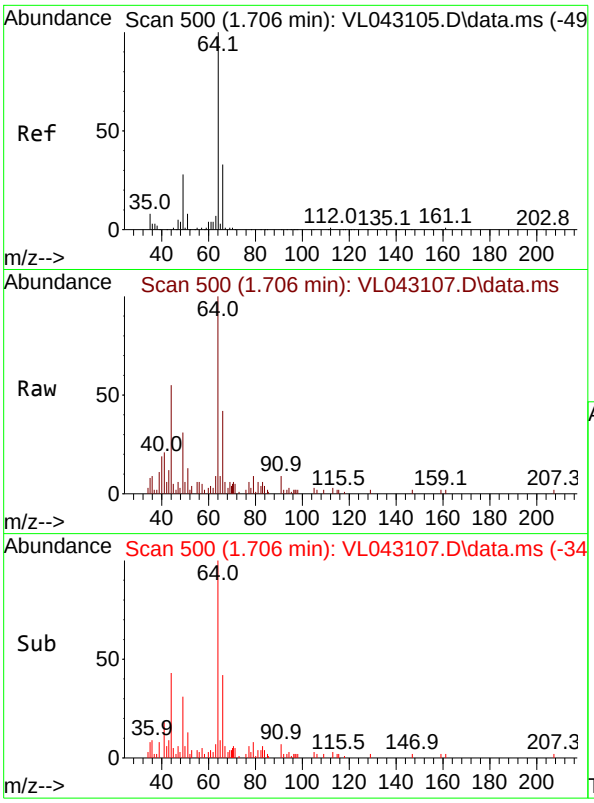


#6
Bromomethane
Concen: 1.117 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 94 Resp: 3462

Ion	Ratio	Lower	Upper
94	100		
96	88.6	72.2	108.4

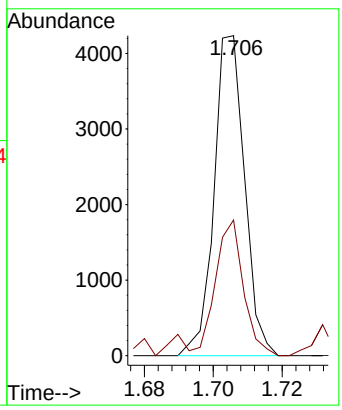




#7
Chloroethane
Concen: 1.132 ppbv
RT: 1.706 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 64 Resp: 261

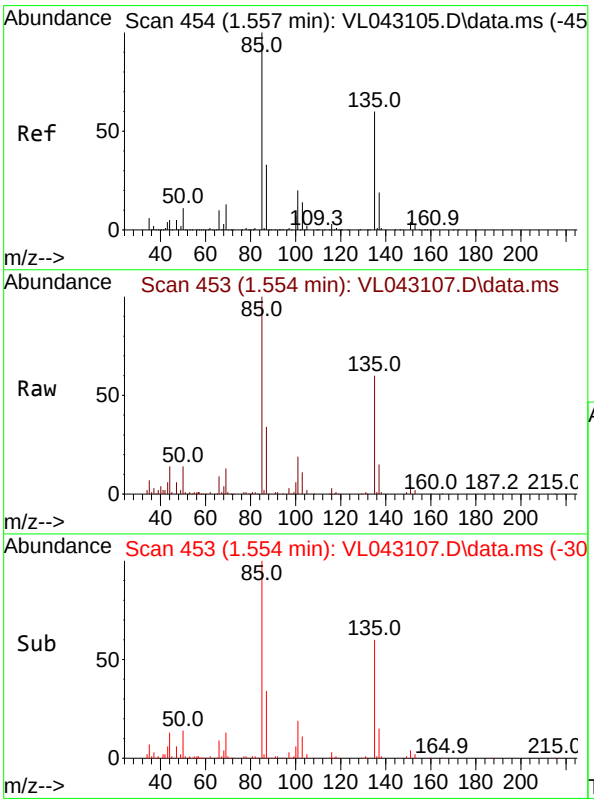
Ion	Ratio	Lower	Upper
64	100		
66	42.4	26.0	39.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

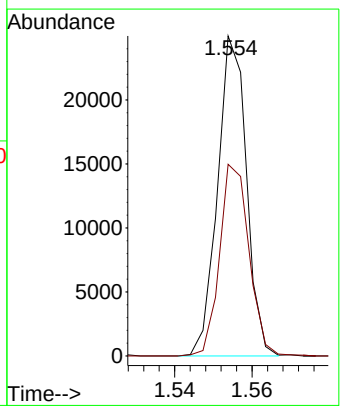
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

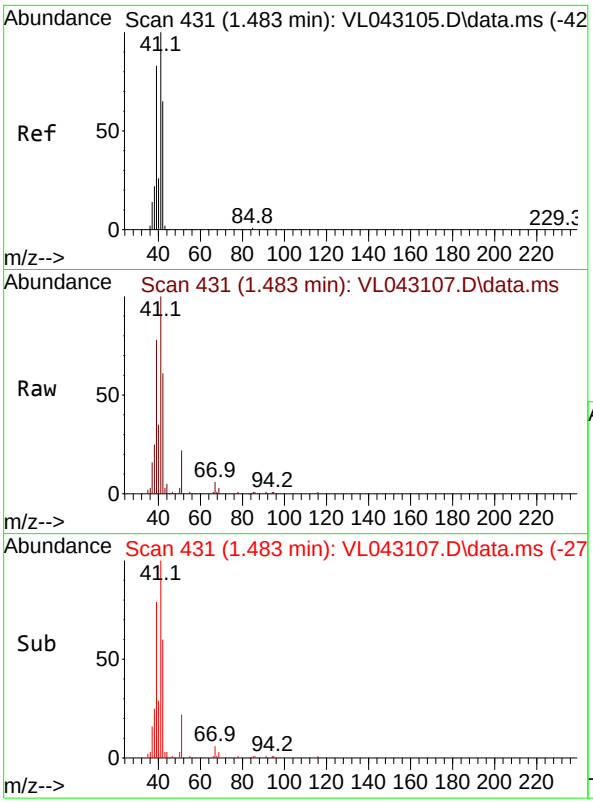


#8
Dichlorotetrafluoroethane
Concen: 1.101 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 12940

Ion	Ratio	Lower	Upper
85	100		
135	61.5	48.2	72.4

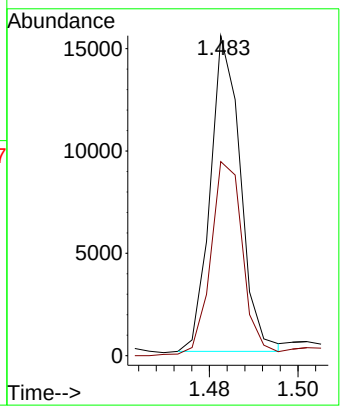




#9
Propene
Concen: 1.045 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 41 Resp: 729

Ion	Ratio	Lower	Upper
41	100		
42	68.5	55.1	82.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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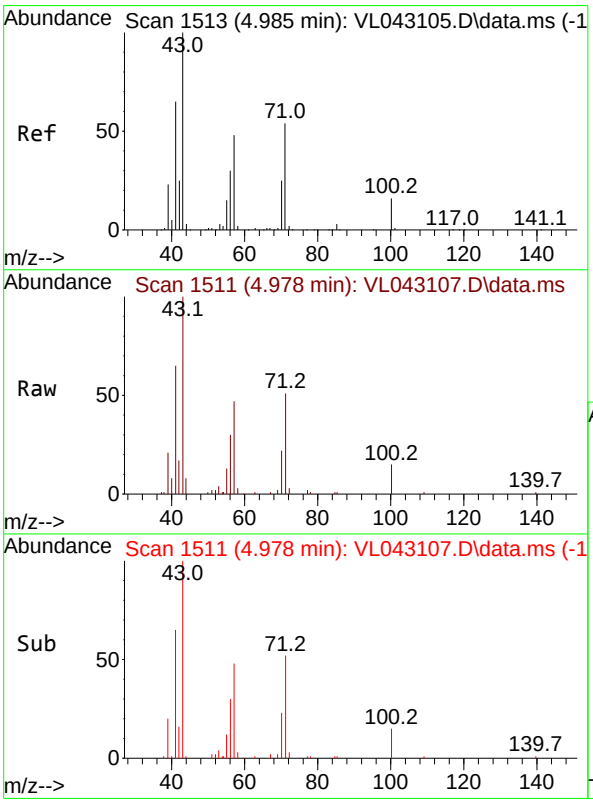
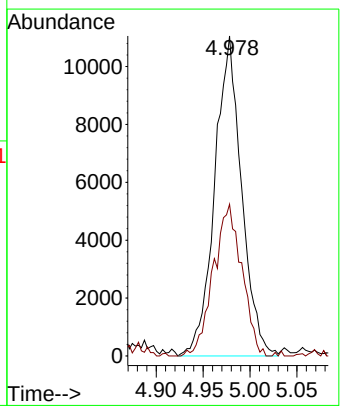
Supervised By :Mahesh Dadoda 10/16/2025

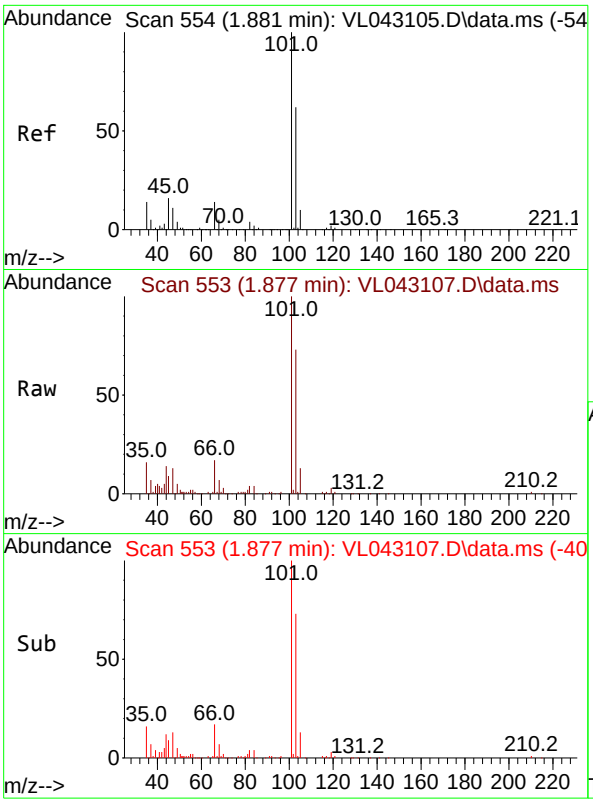


#10
Heptane
Concen: 1.100 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 22011

Ion	Ratio	Lower	Upper
43	100		
57	50.4	40.8	61.2

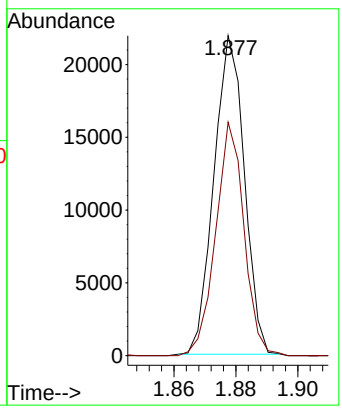




#11
Trichlorofluoromethane
Concen: 1.049 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:101 Resp: 1492

Ion	Ratio	Lower	Upper
101	100		
103	73.3	49.3	73.9



Instrument :
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ClientSampleId :
VSTDICC001

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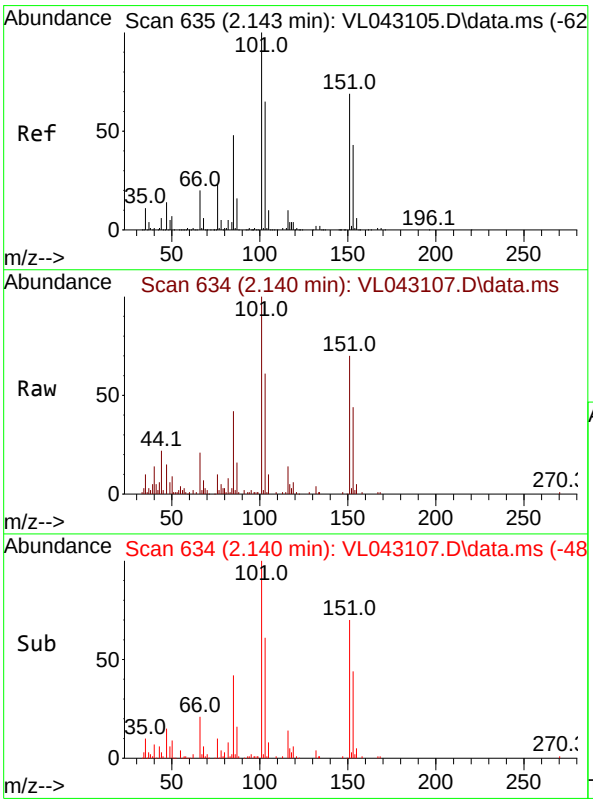
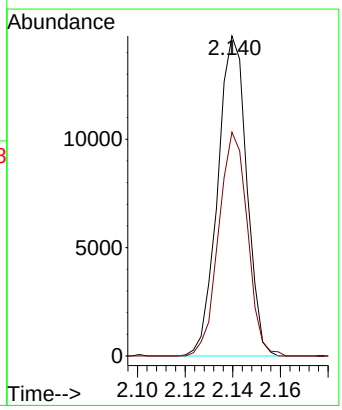
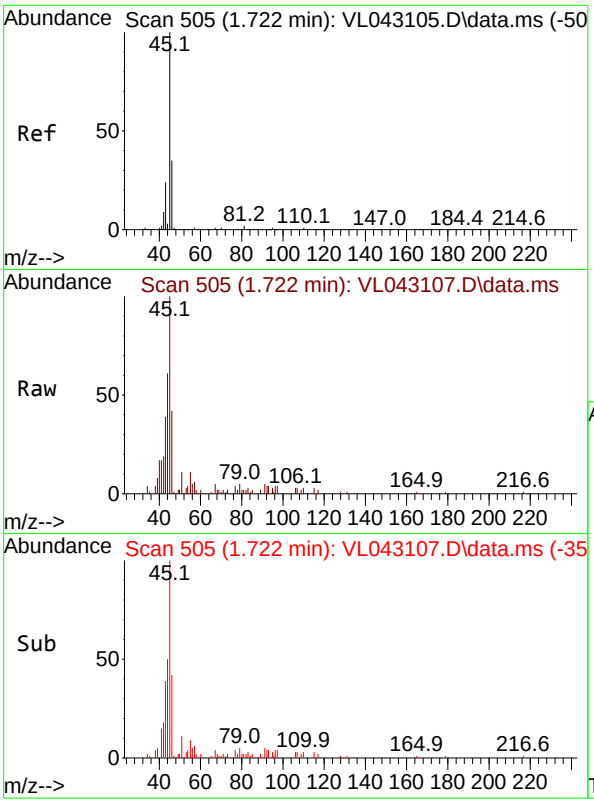


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.090 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:101 Resp: 12484

Ion	Ratio	Lower	Upper
101	100		
151	69.5	54.7	82.1

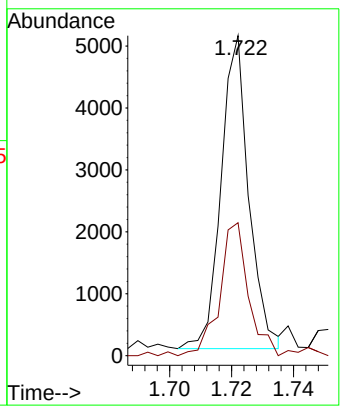




#13
Ethanol
Concen: 1.217 ppbv
RT: 1.722 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 45 Resp: 314

Ion	Ratio	Lower	Upper
45	100		
46	46.7	14.7	58.9



Instrument :
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ClientSampleId :
VSTDICC001

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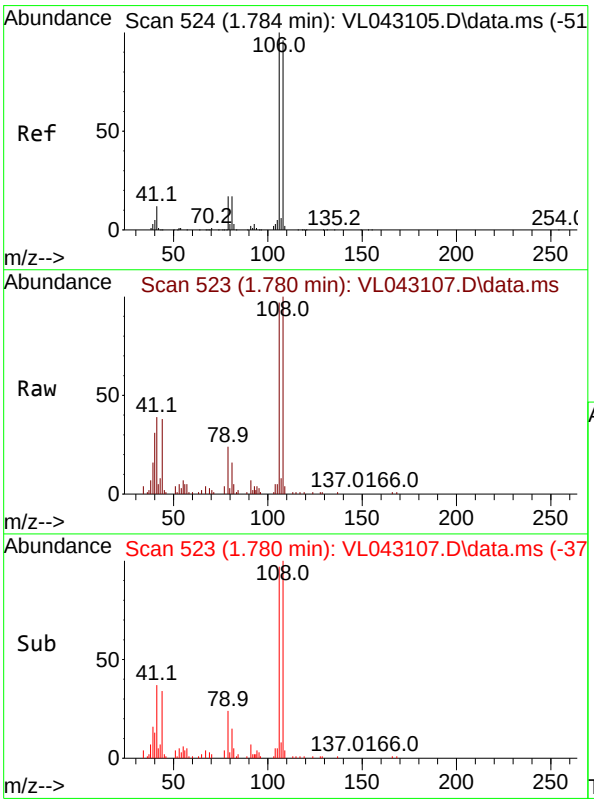
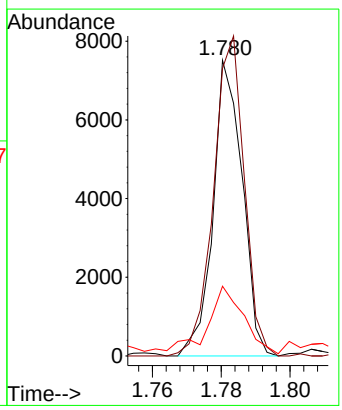
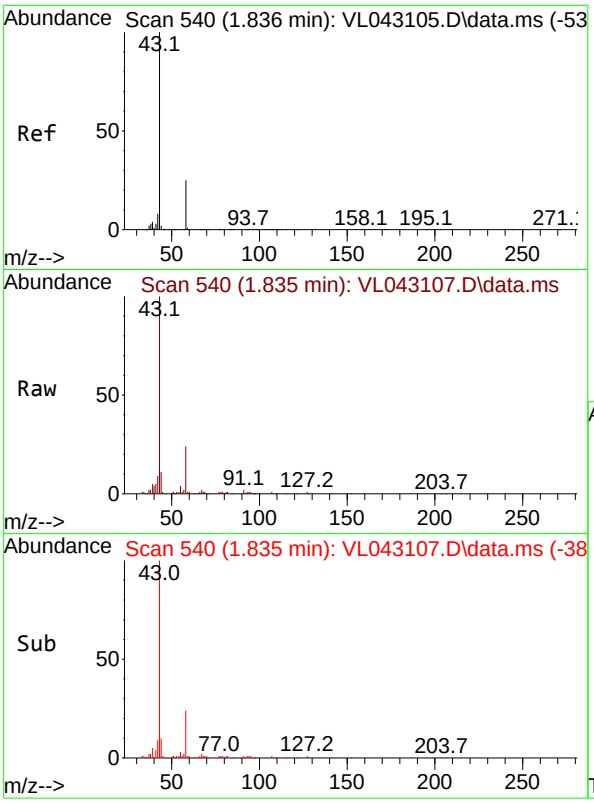


#14
Bromoethene
Concen: 1.043 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:108 Resp: 4440

Ion	Ratio	Lower	Upper
108	100		
106	113.7	84.4	126.6
79	28.9	15.3	22.9#

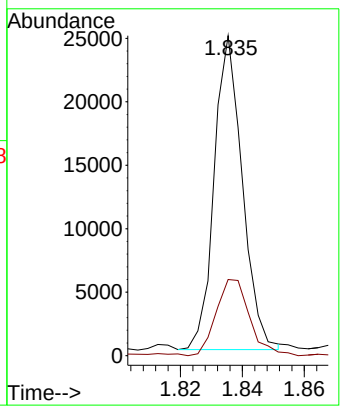




#15
Acetone
Concen: 1.123 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 1557

Ion	Ratio	Lower	Upper
43	100		
58	31.0	20.8	31.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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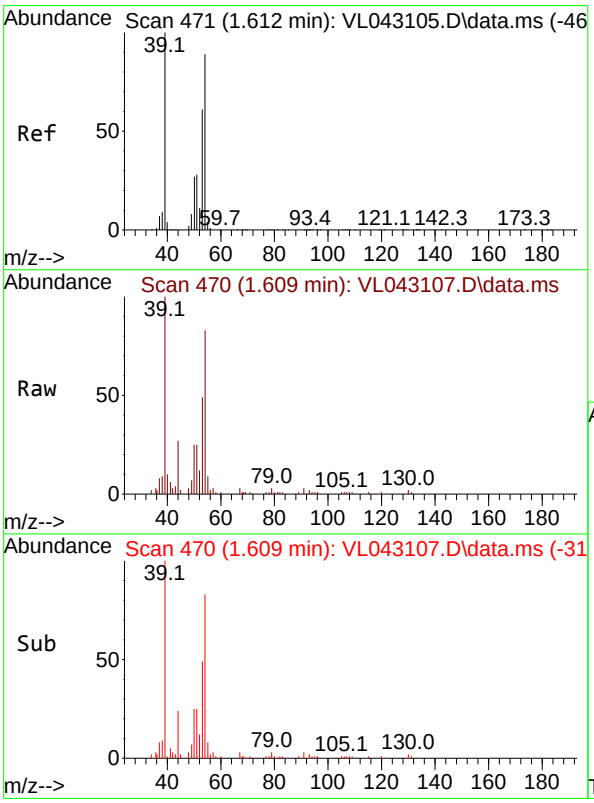
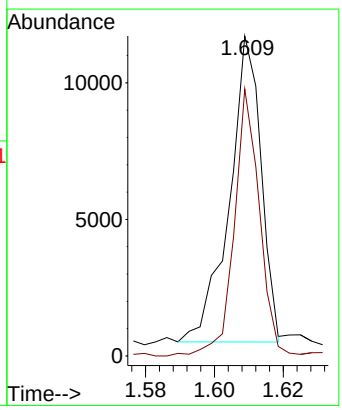
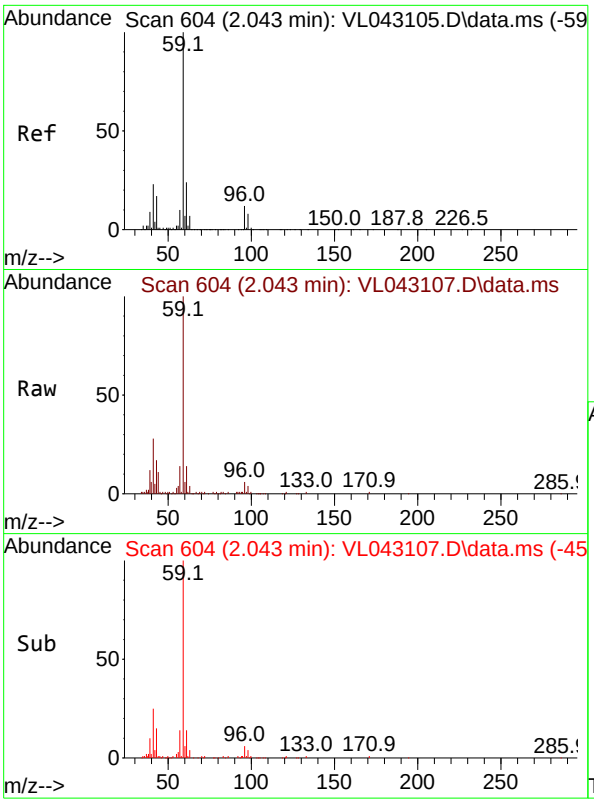


#16
1,3-Butadiene
Concen: 1.089 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 39 Resp: 7157

Ion	Ratio	Lower	Upper
39	100		
54	70.8	59.0	88.4

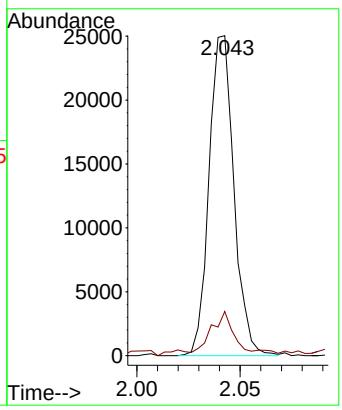




#17
tert-Butyl alcohol
Concen: 1.106 ppbv
RT: 2.043 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 59 Resp: 2094

Ion	Ratio	Lower	Upper
59	100		
57	14.0	8.2	12.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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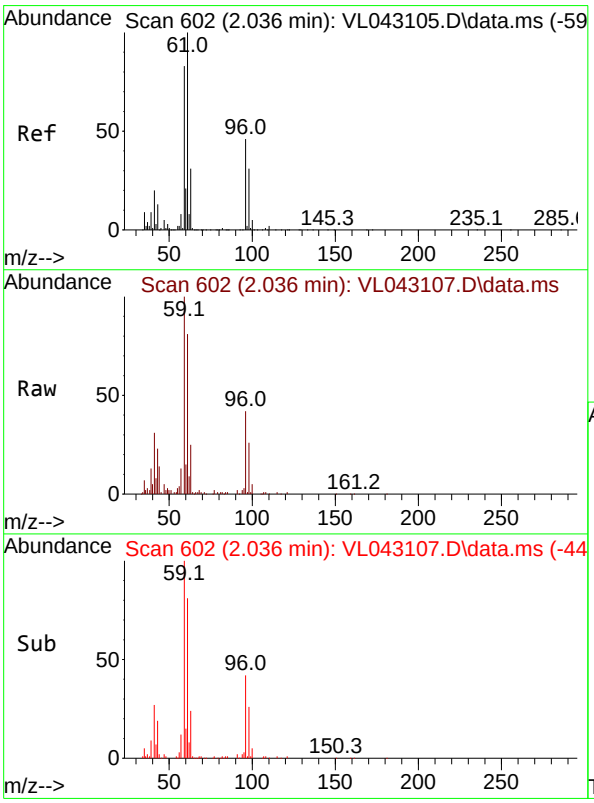
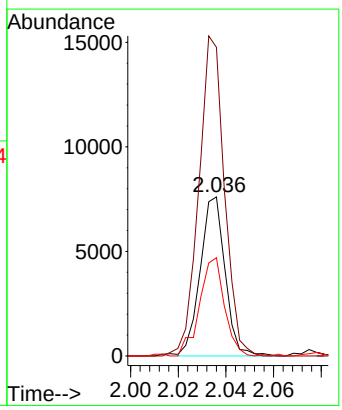
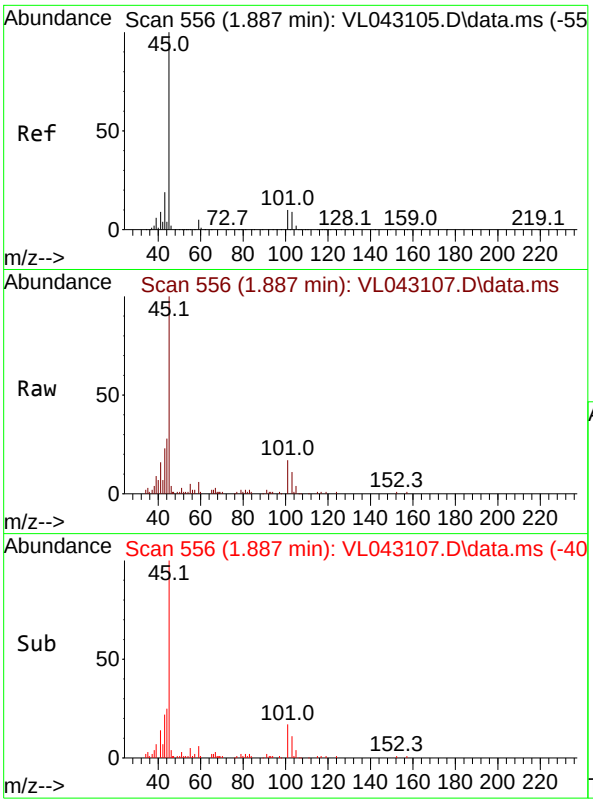


#18
1,1-Dichloroethene
Concen: 1.103 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 96 Resp: 5510

Ion	Ratio	Lower	Upper
96	100		
61	194.0	173.4	260.0
98	61.7	53.2	79.8

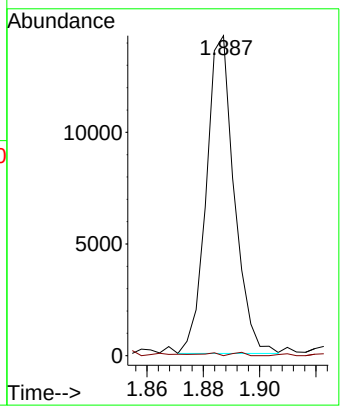




#19
Isopropyl Alcohol
Concen: 1.141 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 45 Resp: 979

Ion	Ratio	Lower	Upper
45	100		
58	48.1	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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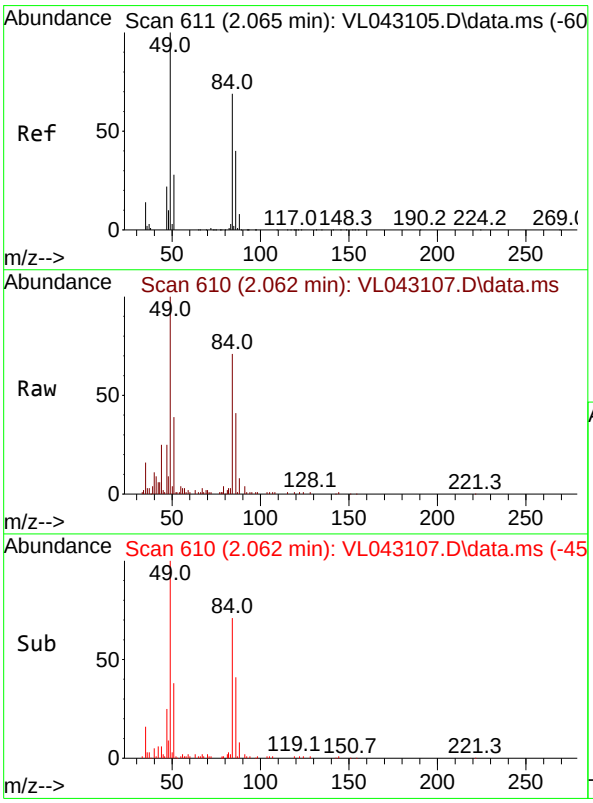
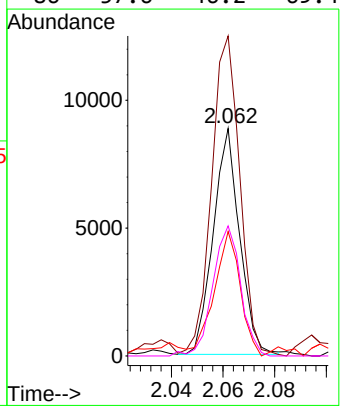
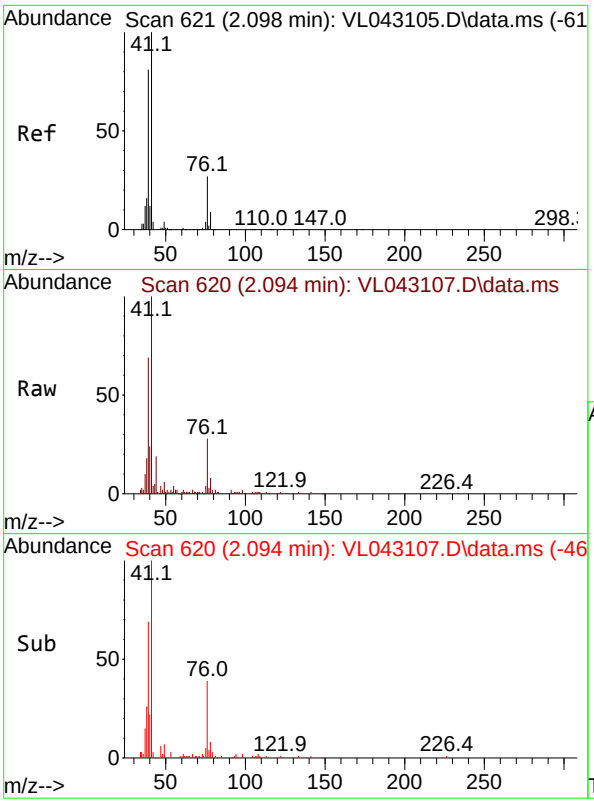


#20
Methylene Chloride
Concen: 1.149 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 84 Resp: 6261

Ion	Ratio	Lower	Upper
84	100		
49	140.9	116.6	175.0
51	51.2	34.8	52.2
86	57.6	46.2	69.4

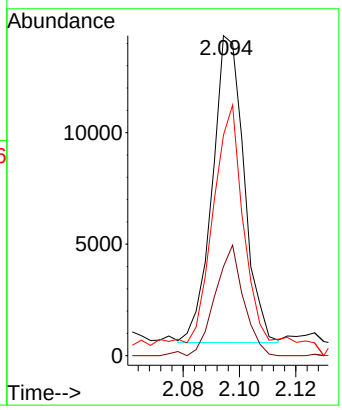




#21
Allyl Chloride
Concen: 1.055 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 41 Resp: 1073

Ion	Ratio	Lower	Upper
41	100		
76	32.6	21.5	32.3#
39	94.1	60.8	91.2#



Instrument :
MSVOA_L
ClientSampleId :
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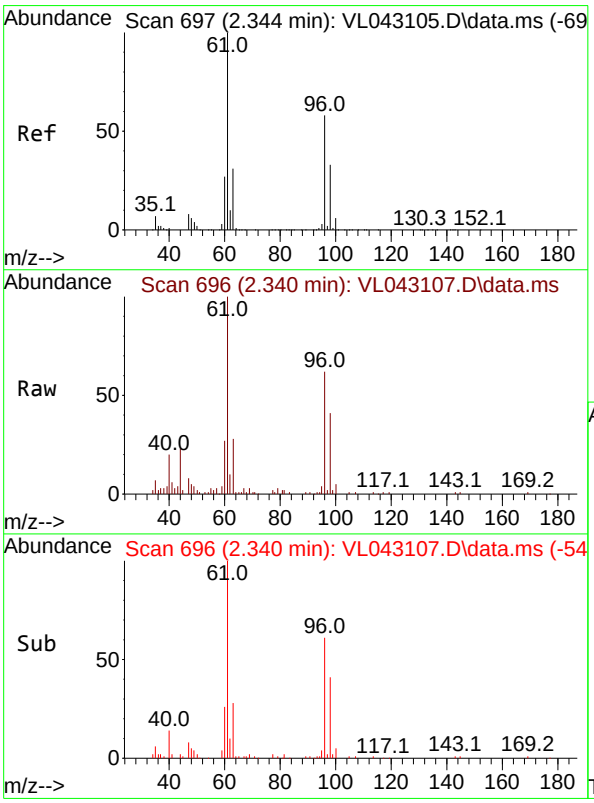
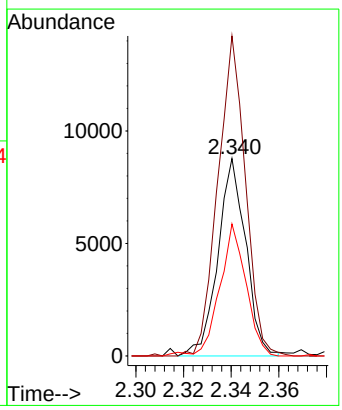
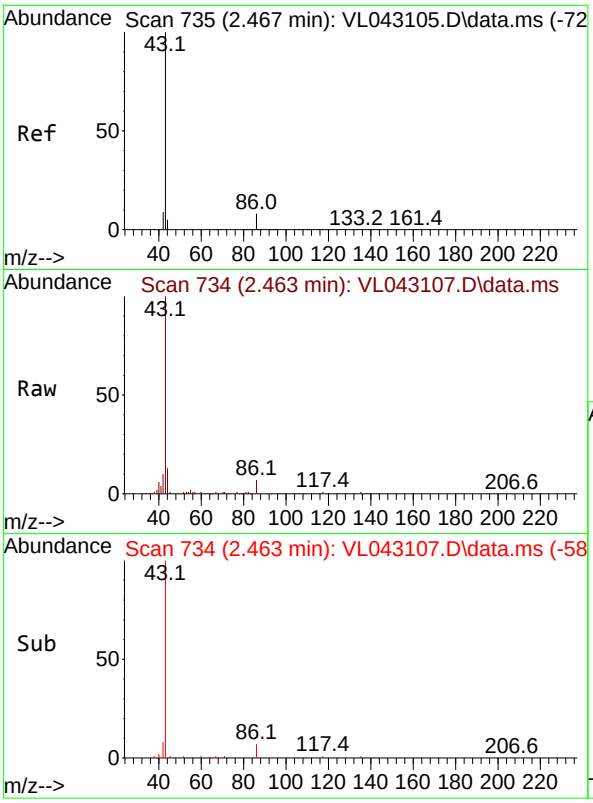


#22
trans-1,2-Dichloroethene
Concen: 1.193 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 96 Resp: 7119

Ion	Ratio	Lower	Upper
96	100		
61	162.1	137.0	205.6
98	66.9	45.5	68.3

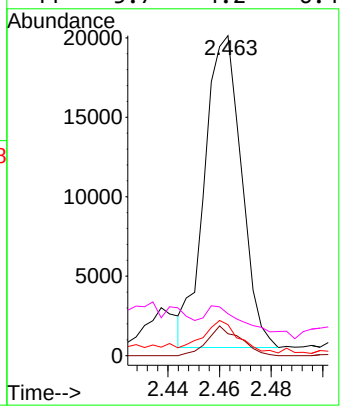




#23
Vinyl Acetate
Concen: 0.964 ppbv
RT: 2.463 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 1947

Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.2	9.2
42	9.1	7.6	11.4
44	5.7	4.2	6.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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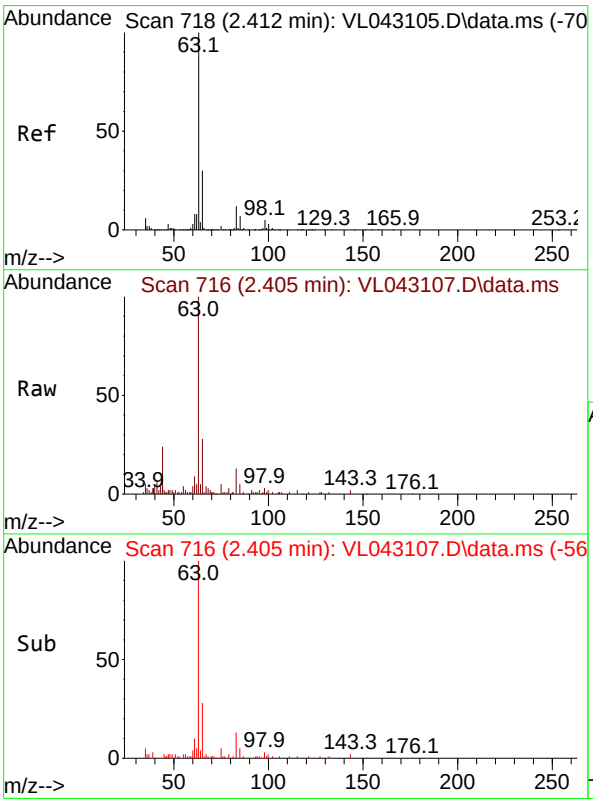
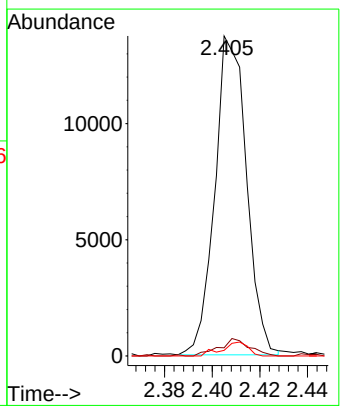
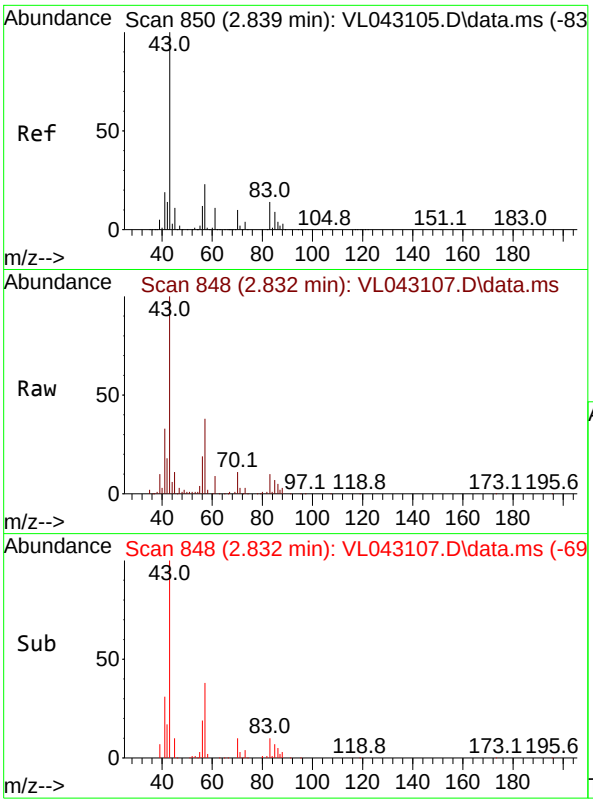


#24
1,1-Dichloroethane
Concen: 1.097 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 63 Resp: 12656

Ion	Ratio	Lower	Upper
63	100		
98	2.6	2.6	7.8#
100	1.7	1.5	4.4

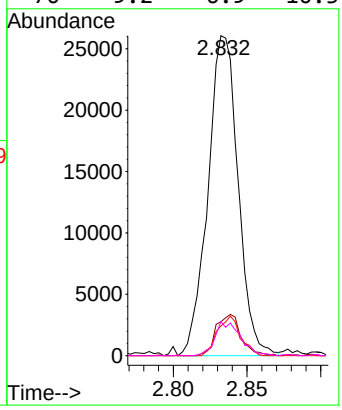




#25
Ethyl Acetate
Concen: 1.085 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 3709

Ion	Ratio	Lower	Upper
43	100		
45	10.8	7.8	11.8
61	9.4	7.0	10.6
70	9.2	6.9	10.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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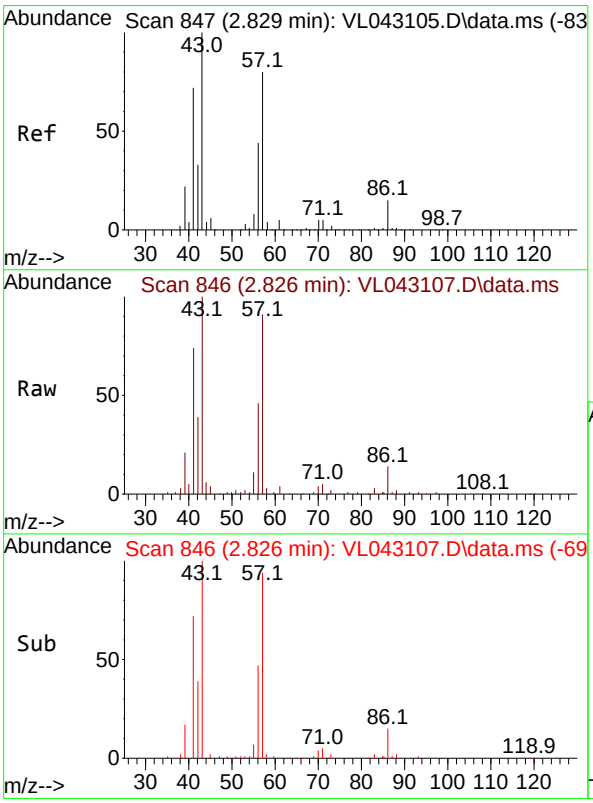
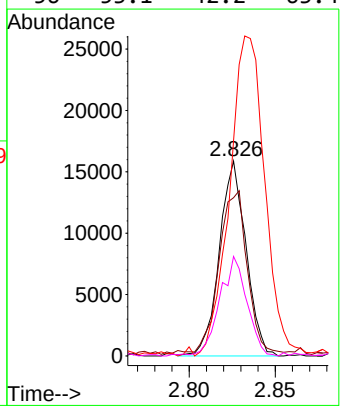
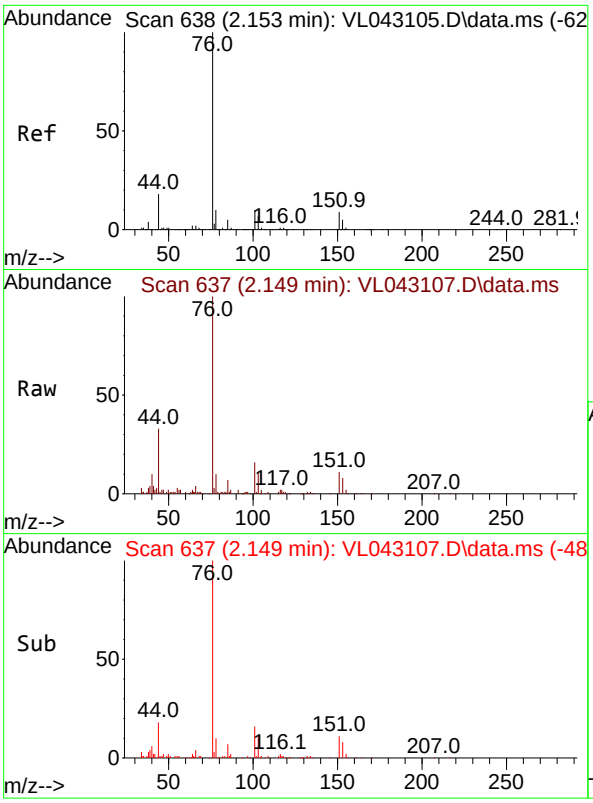


#26
Hexane
Concen: 1.089 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 17152

Ion	Ratio	Lower	Upper
57	100		
41	91.8	71.4	107.0
43	219.3	178.5	267.7
56	53.1	42.2	63.4





#27
Carbon Disulfide
Concen: 1.092 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 76 Resp: 1576

Ion	Ratio	Lower	Upper
76	100		
44	47.9	16.7	25.1#
78	14.2	9.3	13.9#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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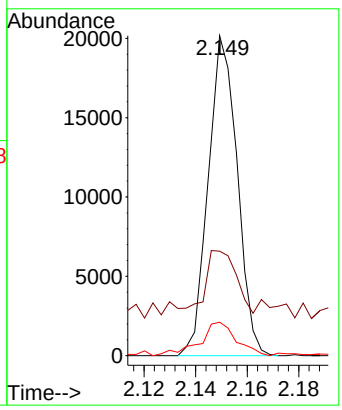
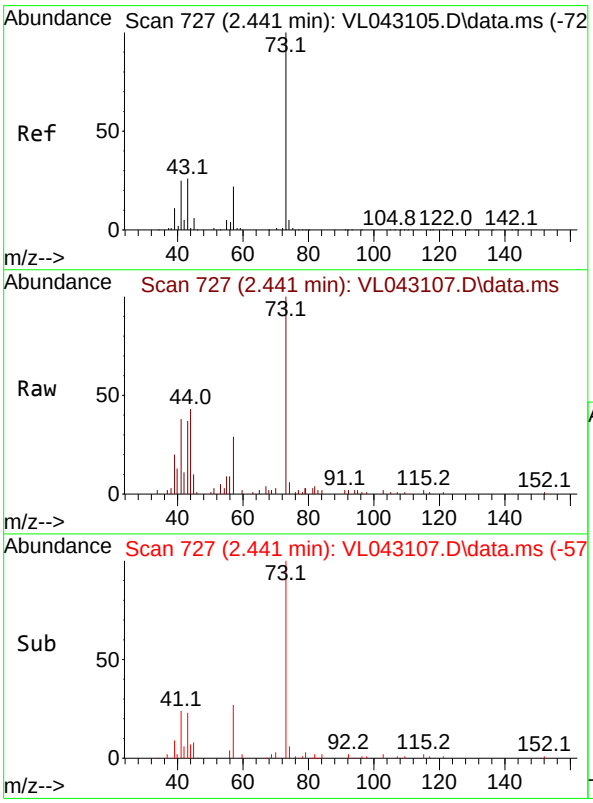
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

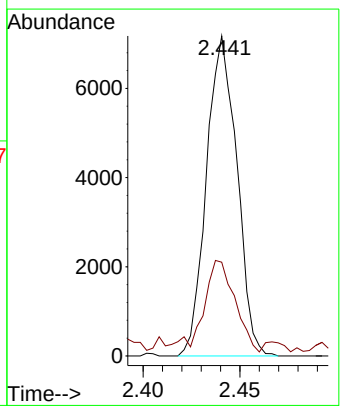


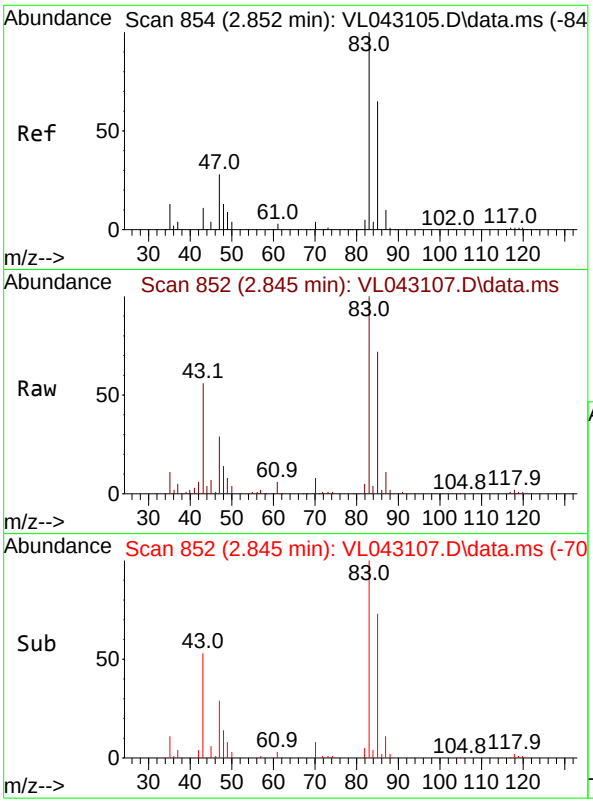


#28
Methyl tert-Butyl Ether
Concen: 1.095 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 73 Resp: 7847

Ion	Ratio	Lower	Upper
73	100		
57	32.3	20.5	30.7#

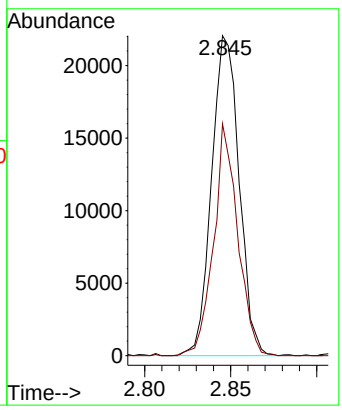




#29
Chloroform
Concen: 1.074 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 83 Resp: 2452

Ion	Ratio	Lower	Upper
83	100		
85	72.4	51.8	77.6



Instrument :
MSVOA_L
ClientSampleId :
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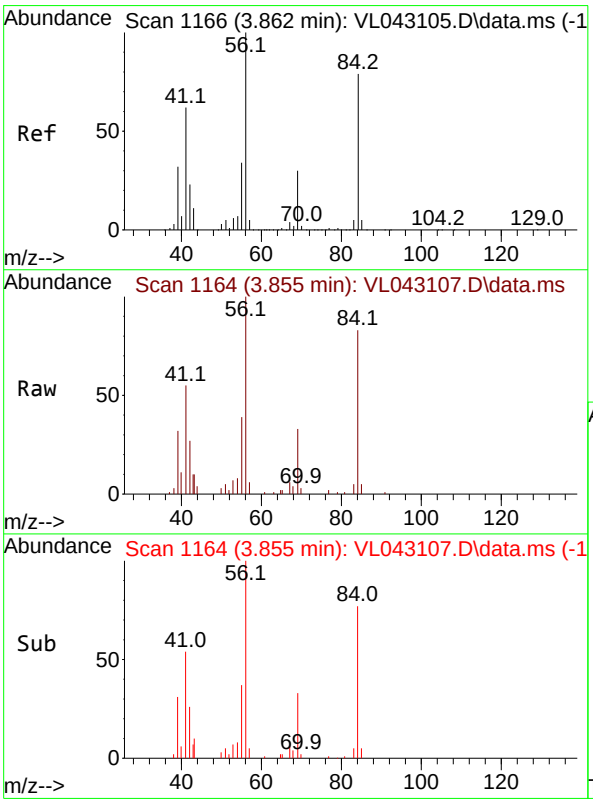
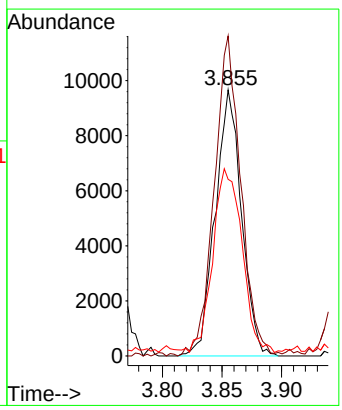
Supervised By :Mahesh Dadoda 10/16/2025

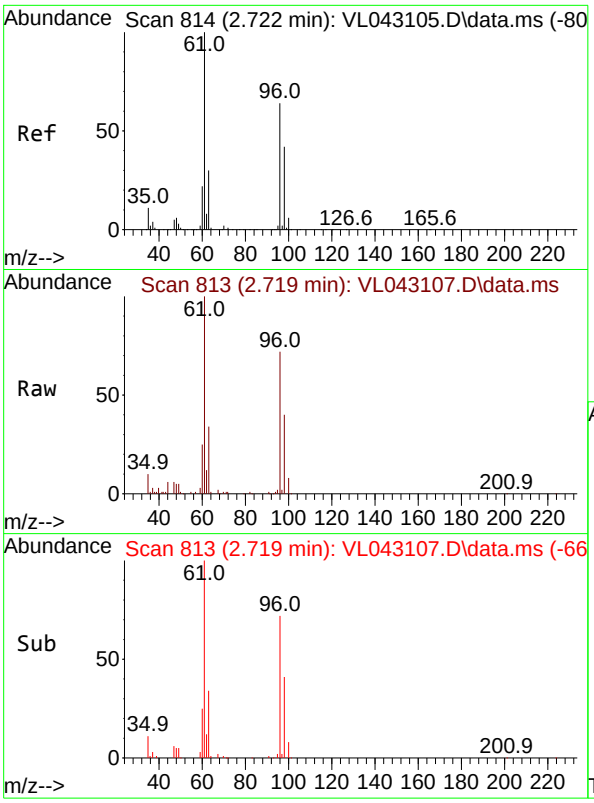


#30
Cyclohexane
Concen: 1.078 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 84 Resp: 14819

Ion	Ratio	Lower	Upper
84	100		
56	122.3	100.9	151.3
41	78.1	63.8	95.6

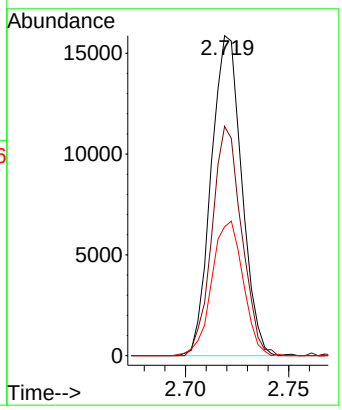




#31
cis-1,2-Dichloroethene
Concen: 1.084 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 61 Resp: 1631

Ion	Ratio	Lower	Upper
61	100		
96	71.6	51.0	76.6
98	39.9	33.5	50.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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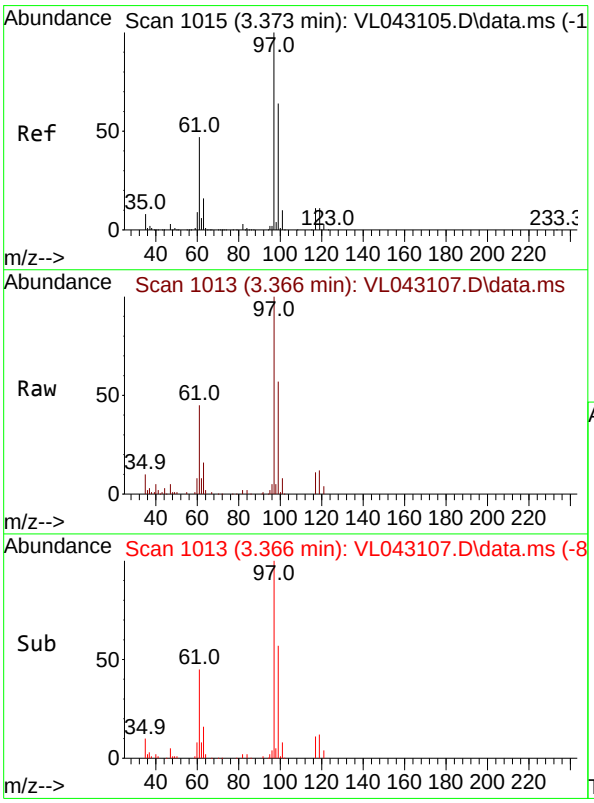
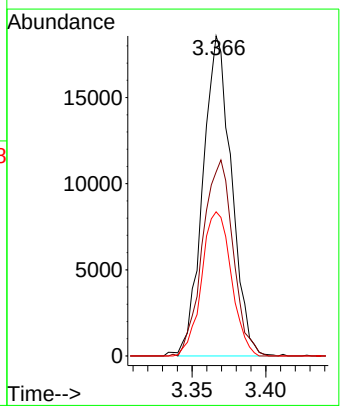
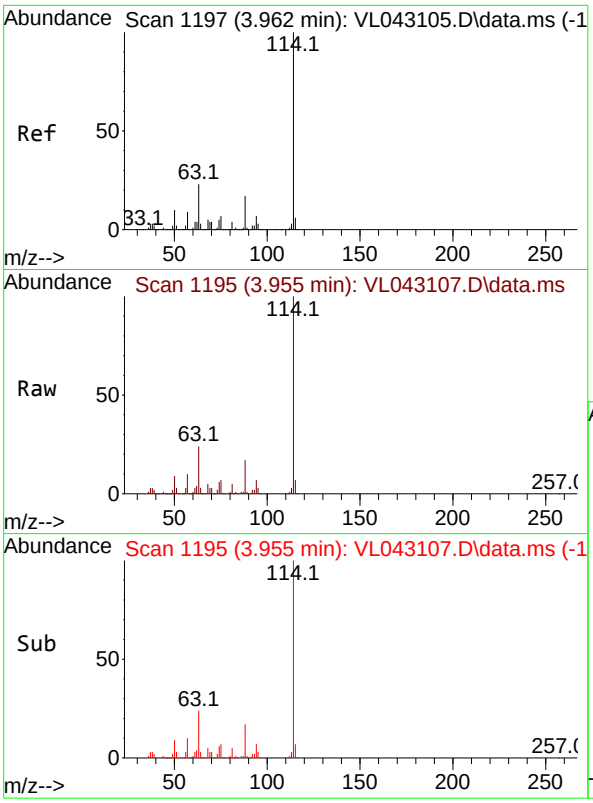


#32
1,1,1-Trichloroethane
Concen: 1.049 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 97 Resp: 24948

Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.3	76.9
61	46.8	38.4	57.6

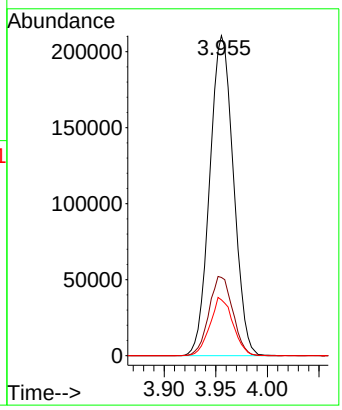




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:114 Resp: 33626

Ion	Ratio	Lower	Upper
114	100		
63	24.8	19.3	28.9
88	17.6	13.9	20.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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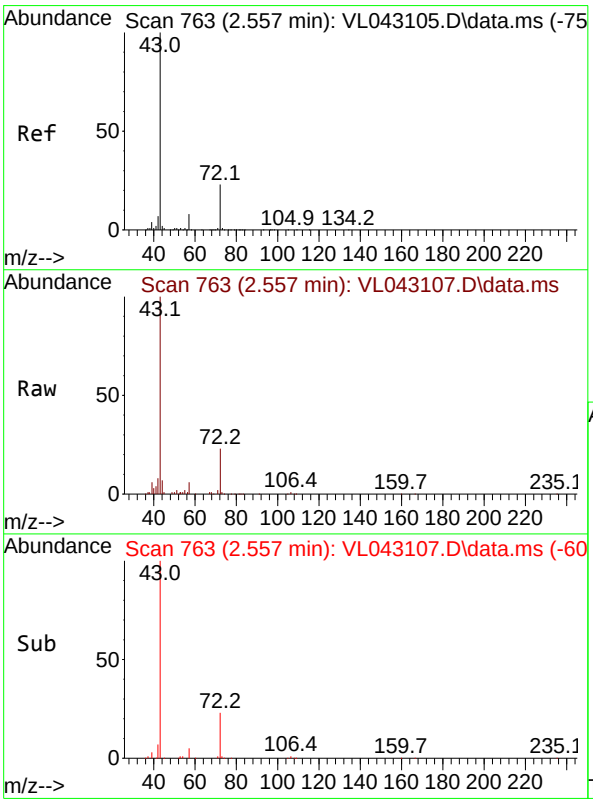
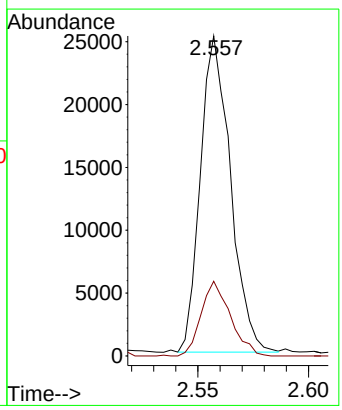
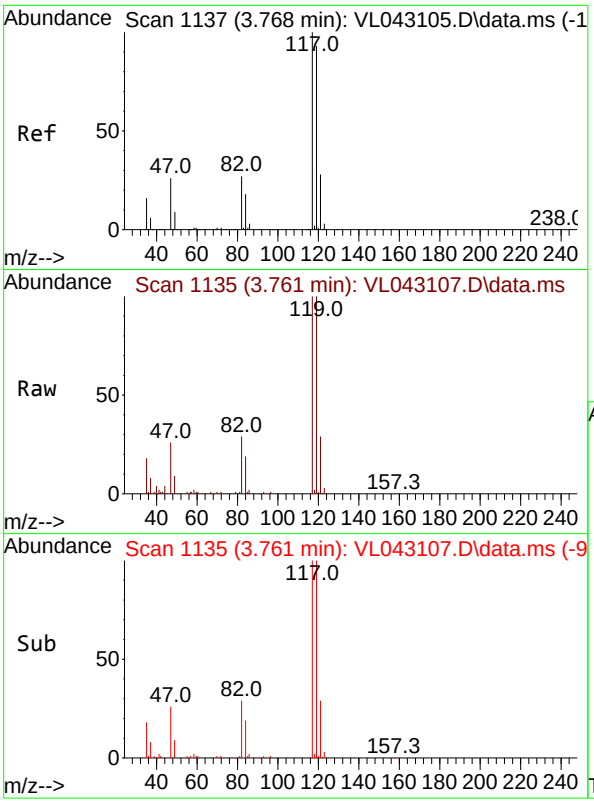


#34
2-Butanone
Concen: 1.047 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 23811

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.4	27.6

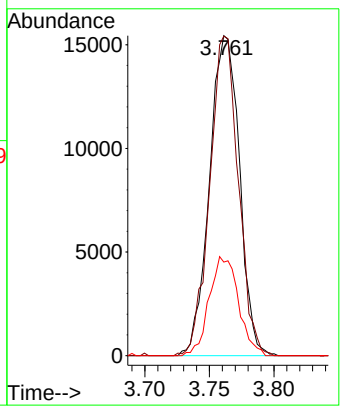




#35
Carbon Tetrachloride
Concen: 1.033 ppbv
RT: 3.761 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:117 Resp: 2496

Ion	Ratio	Lower	Upper
117	100		
119	99.8	74.1	111.1
121	29.3	22.2	33.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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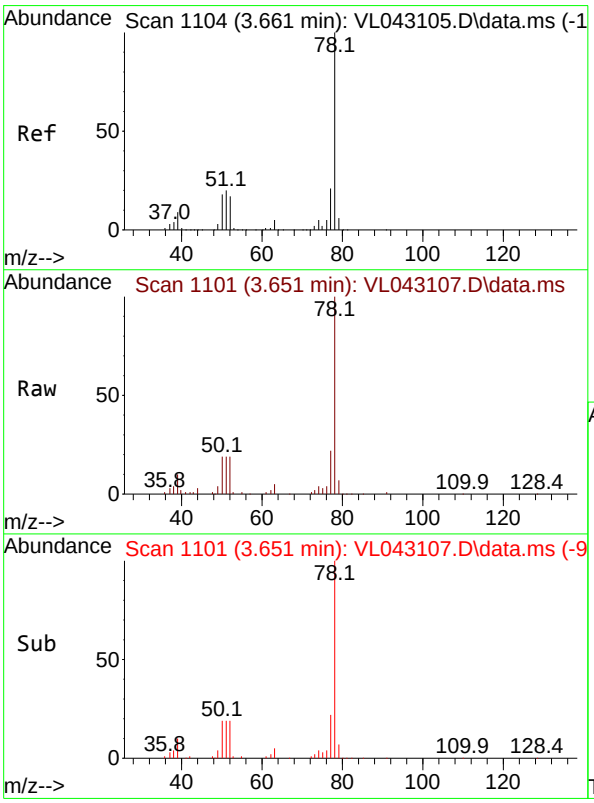
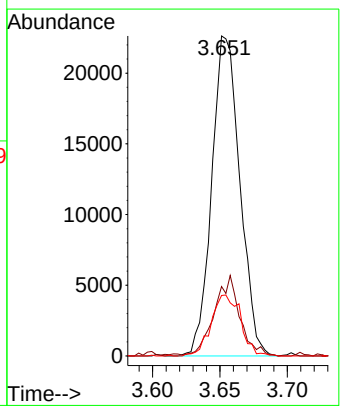
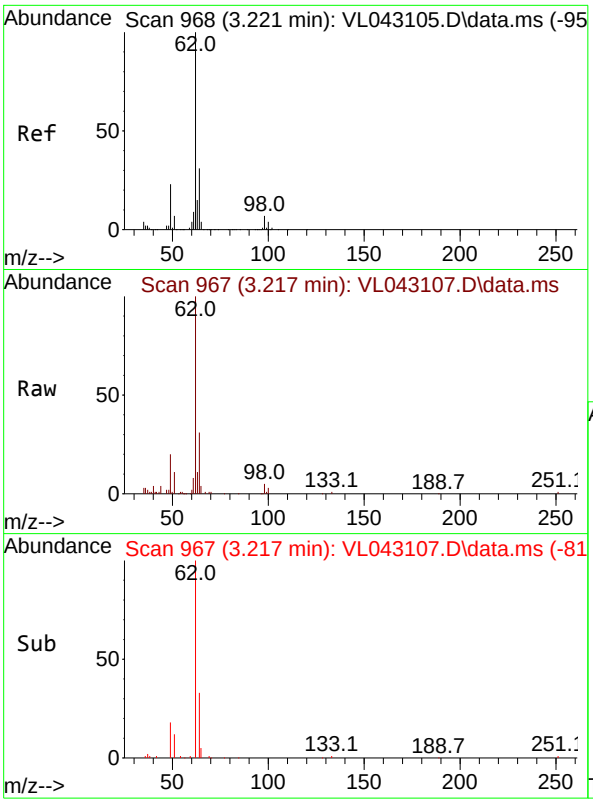


#36
Benzene
Concen: 1.040 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 78 Resp: 32940

Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.0	25.6
50	18.9	14.6	22.0

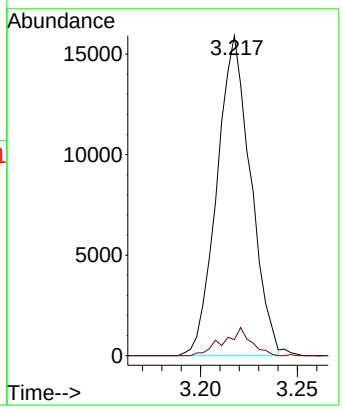




#37
1,2-Dichloroethane
Concen: 1.053 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 62 Resp: 1921

Ion	Ratio	Lower	Upper
62	100		
98	7.2	5.8	8.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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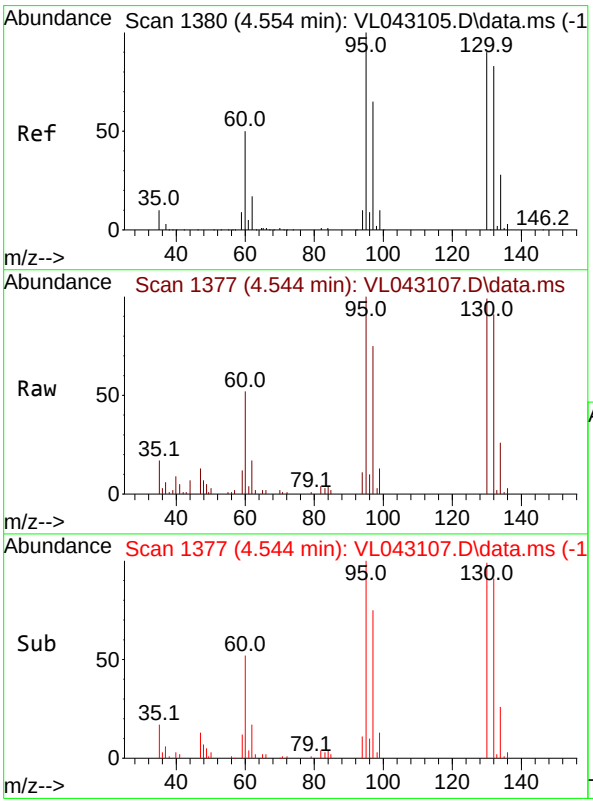
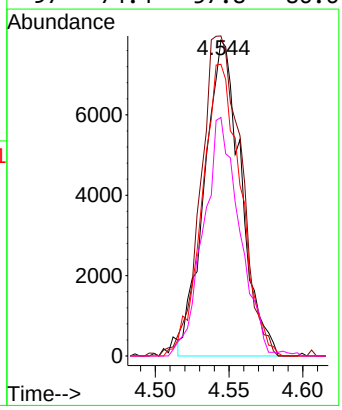
Supervised By :Mahesh Dadoda 10/16/2025

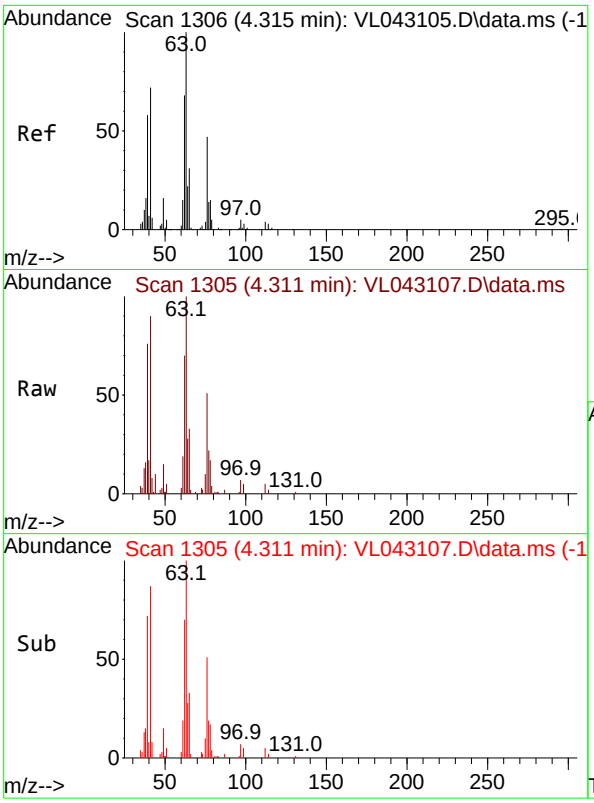


#38
Trichloroethene
Concen: 1.023 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:130 Resp: 13512

Ion	Ratio	Lower	Upper
130	100		
95	101.4	88.6	133.0
132	91.5	73.4	110.0
97	74.4	57.8	86.6

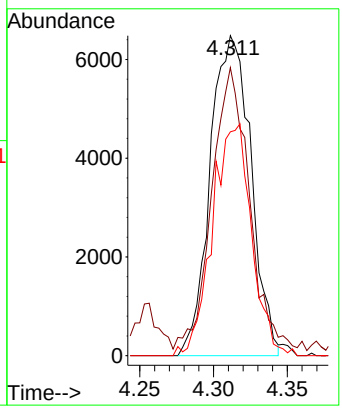




#39
1,2-Dichloropropane
Concen: 1.073 ppbv
RT: 4.311 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 63 Resp: 1243

Ion	Ratio	Lower	Upper
63	100		
41	84.3	58.0	87.0
62	67.2	54.7	82.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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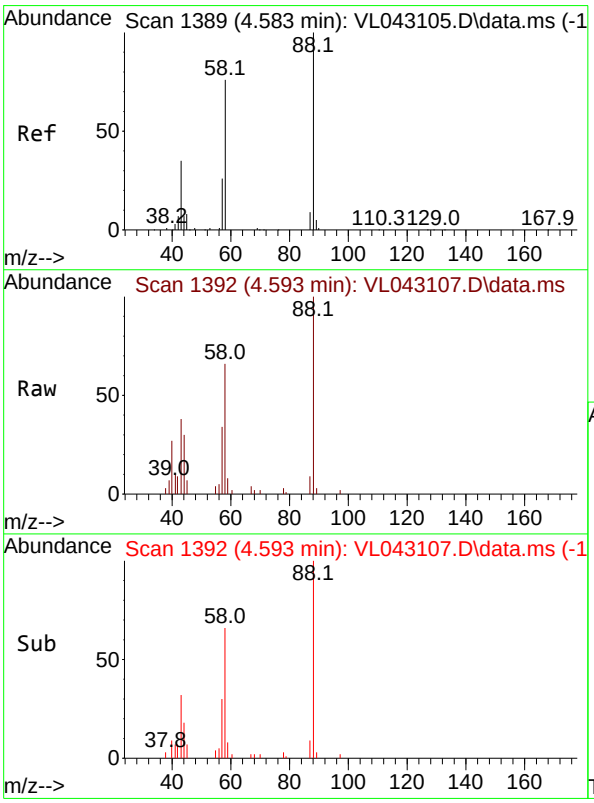
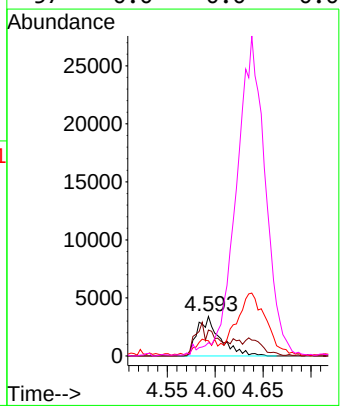
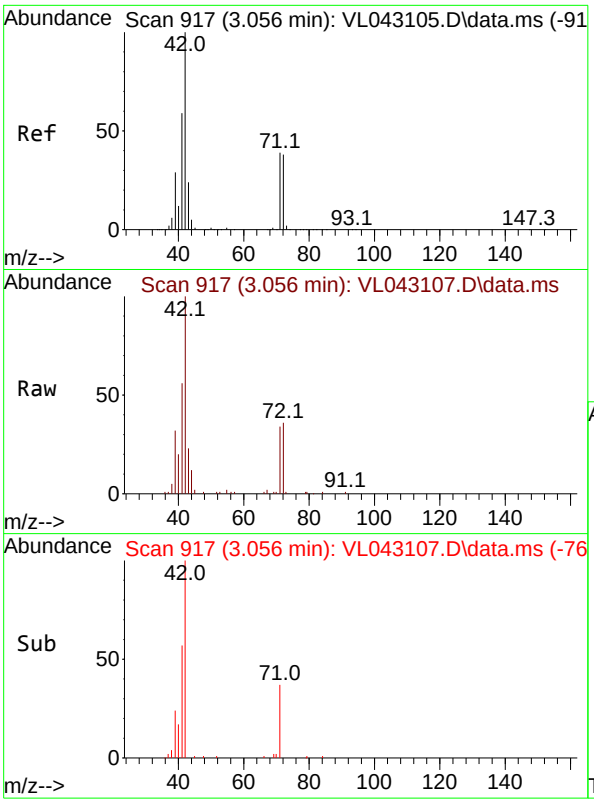


#40
1,4-Dioxane
Concen: 1.077 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.009 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 88 Resp: 5579

Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	0.0	24.0	36.0#
57	0.0	0.0	0.0

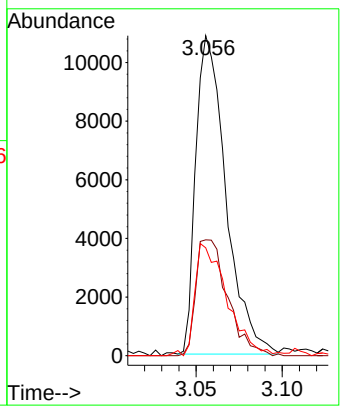




#41
Tetrahydrofuran
Concen: 1.044 ppbv
RT: 3.056 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 42 Resp: 1325

Ion	Ratio	Lower	Upper
42	100		
72	38.1	31.3	46.9
71	38.6	30.4	45.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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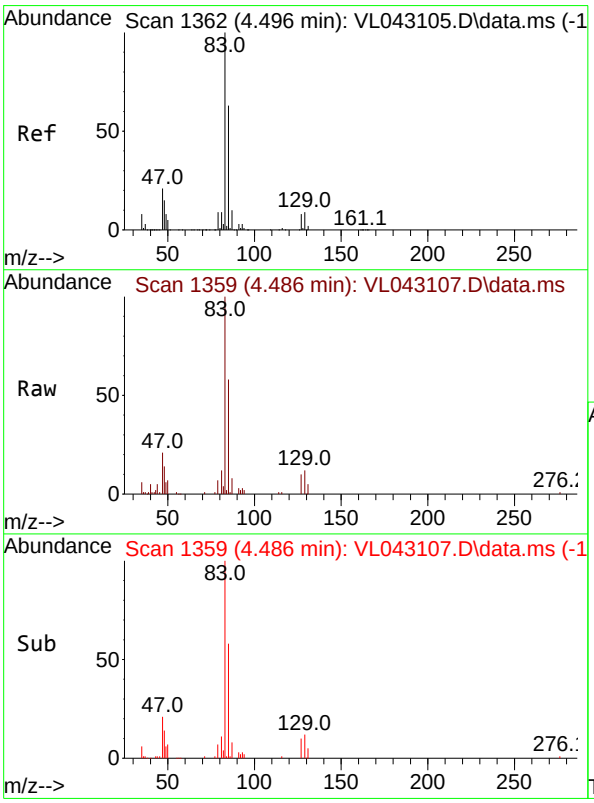
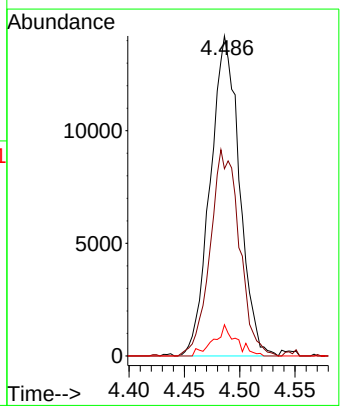
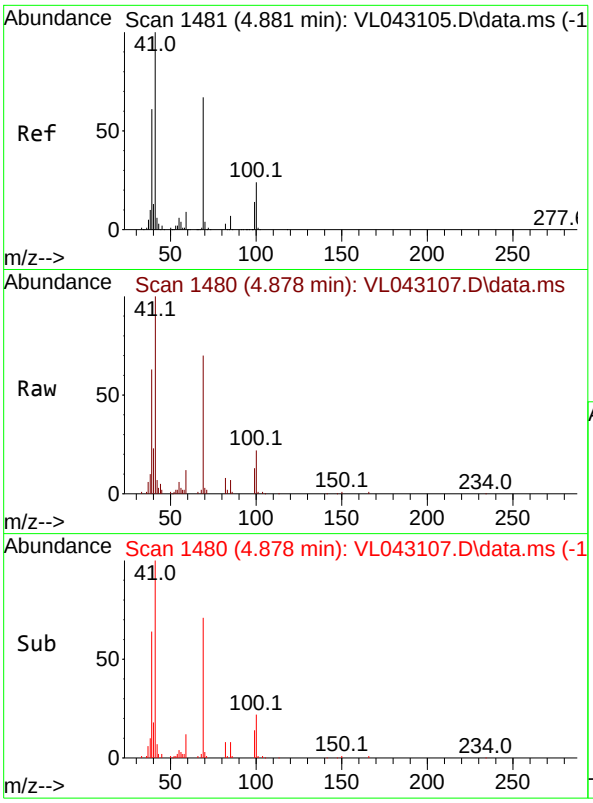


#42
Bromodichloromethane
Concen: 1.032 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 83 Resp: 26069

Ion	Ratio	Lower	Upper
83	100		
85	58.5	50.6	75.8
127	9.8	6.3	9.5#

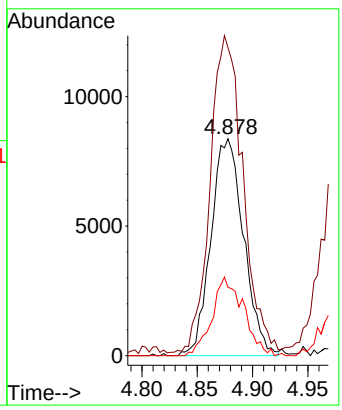




#43
Methyl Methacrylate
Concen: 1.064 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 69 Resp: 1719

Ion	Ratio	Lower	Upper
69	100		
41	145.9	120.5	180.7
100	35.0	29.0	43.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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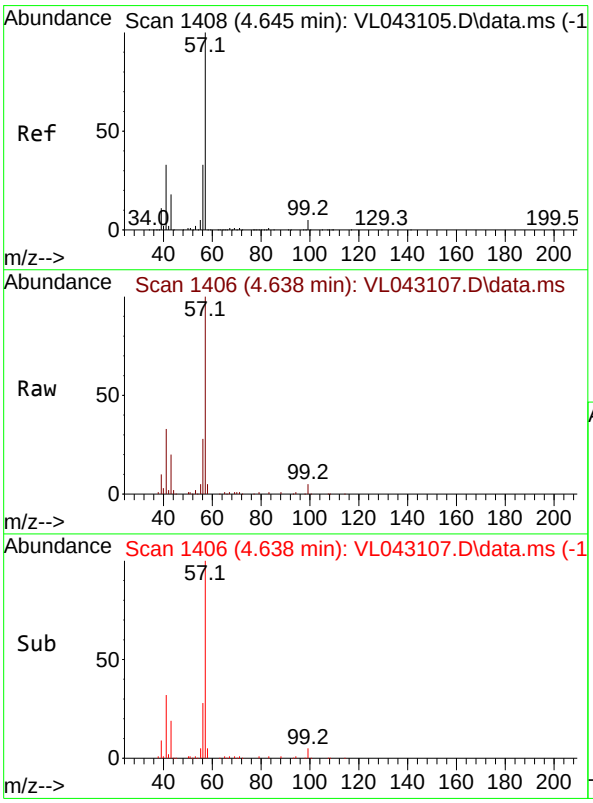
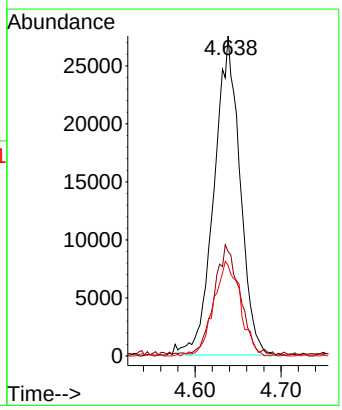
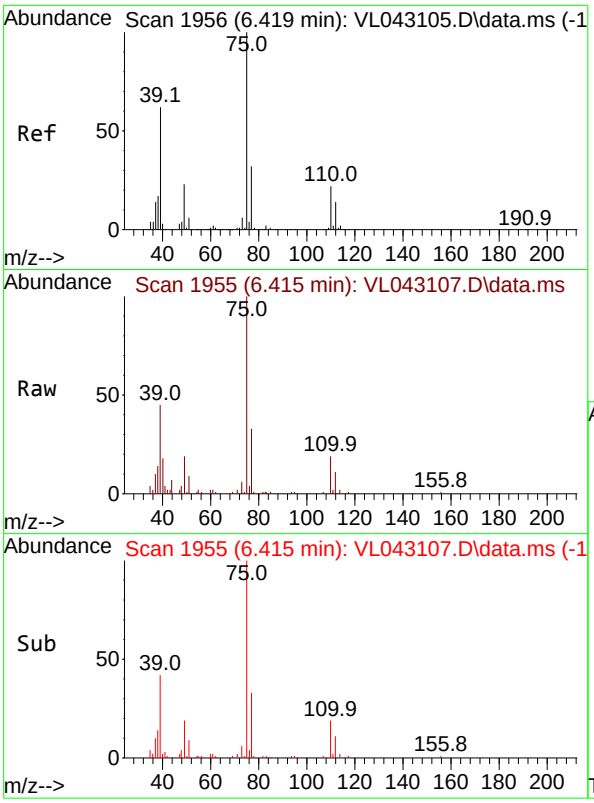


#44
2,2,4-Trimethylpentane
Concen: 1.084 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 57382

Ion	Ratio	Lower	Upper
57	100		
41	35.4	26.3	39.5
56	30.7	25.9	38.9

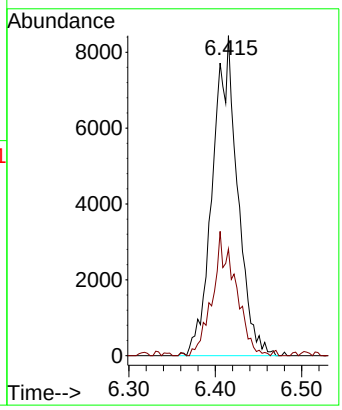




#45
t-1,3-Dichloropropene
Concen: 1.045 ppbv m
RT: 6.415 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 75 Resp: 1687

Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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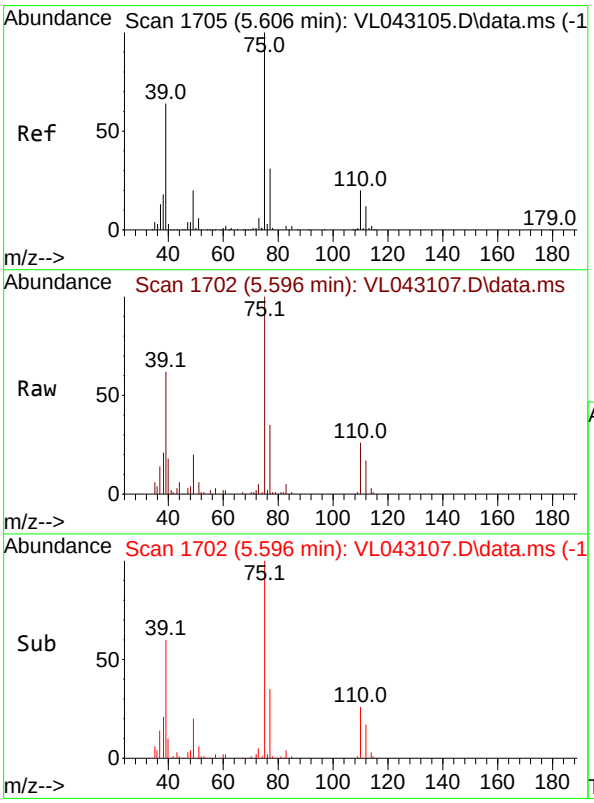
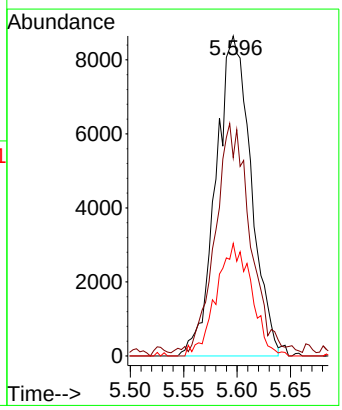
Supervised By :Mahesh Dadoda 10/16/2025

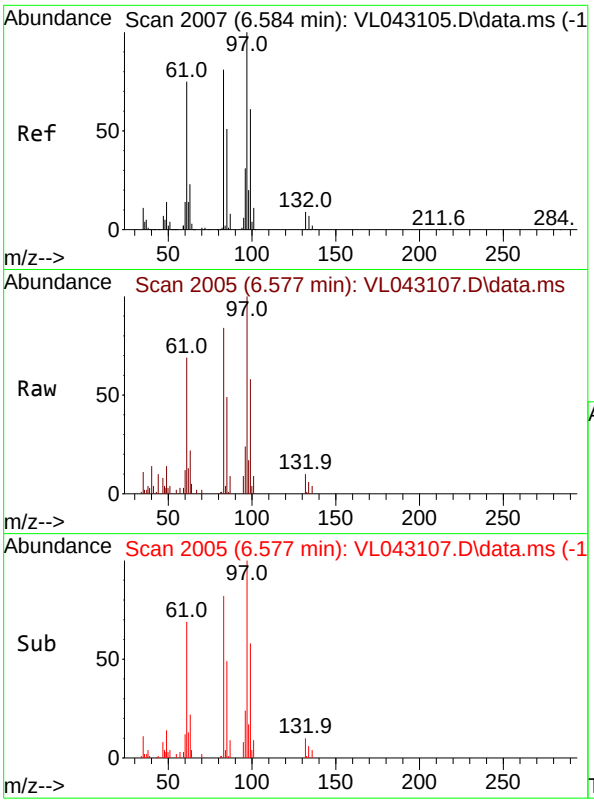


#46
cis-1,3-Dichloropropene
Concen: 1.029 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 75 Resp: 19830

Ion	Ratio	Lower	Upper
75	100		
39	59.6	51.0	76.6
77	35.1	25.0	37.4

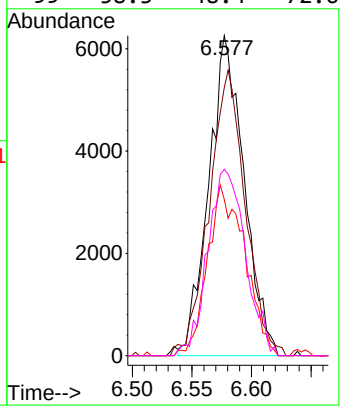




#47
1,1,2-Trichloroethane
Concen: 1.030 ppbv
RT: 6.577 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 97 Resp: 1287

Ion	Ratio	Lower	Upper
97	100		
83	80.9	64.6	96.8
85	48.8	40.6	60.8
99	58.3	48.4	72.6



Instrument :
MSVOA_L
ClientSampleId :
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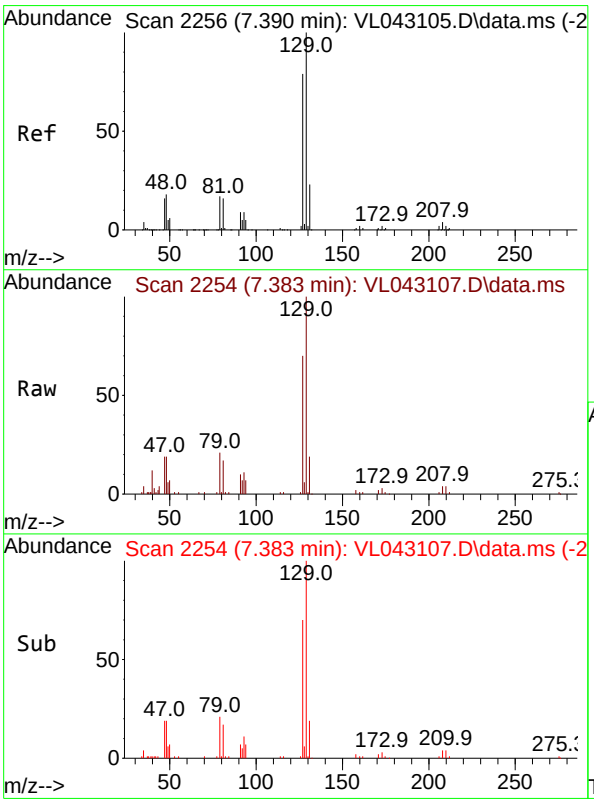
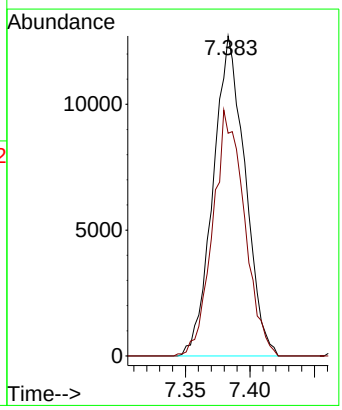
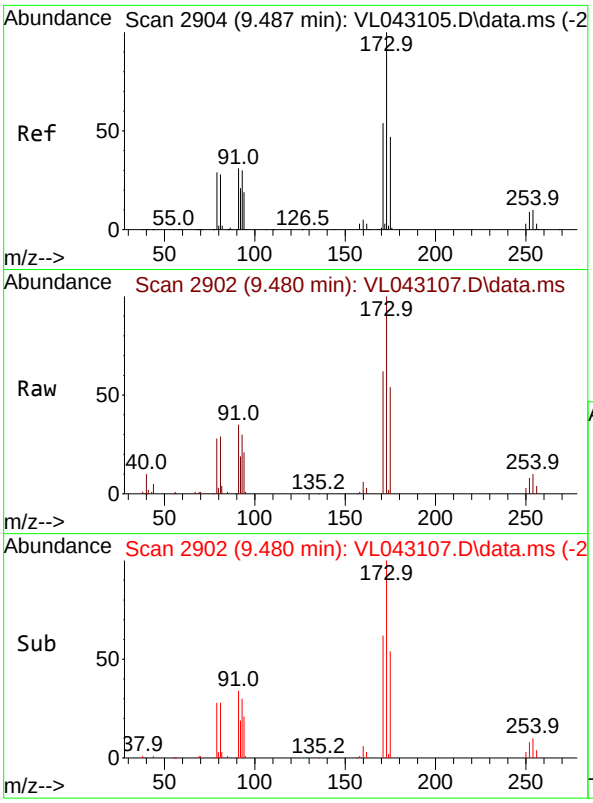


#48
Dibromochloromethane
Concen: 1.046 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:129 Resp: 21874

Ion	Ratio	Lower	Upper
129	100		
127	76.1	39.3	117.9





#49
Bromoform
Concen: 1.019 ppbv
RT: 9.480 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:173 Resp: 1732

Ion	Ratio	Lower	Upper
173	100		
175	50.9	38.8	58.2
171	55.0	41.7	62.5

Instrument :
MSVOA_L
ClientSampleId :
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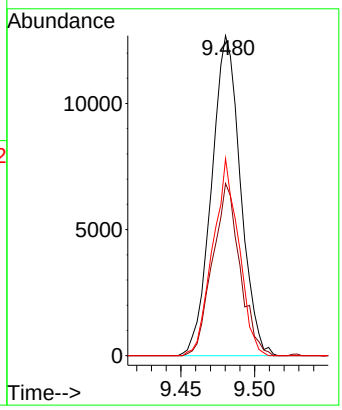
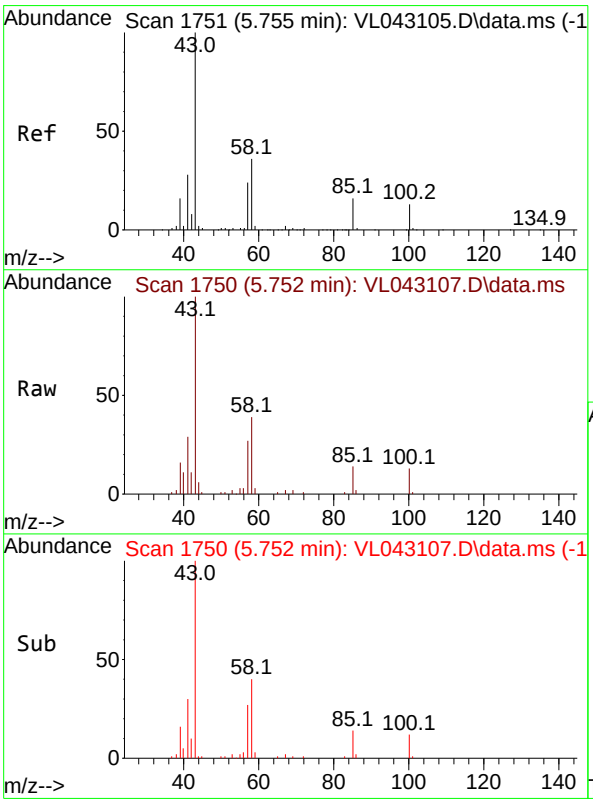
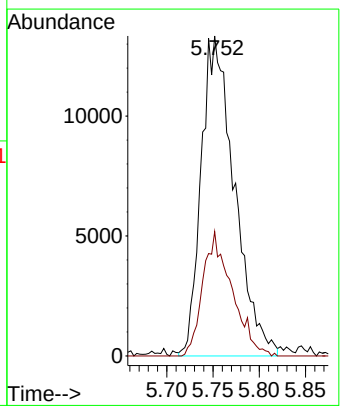


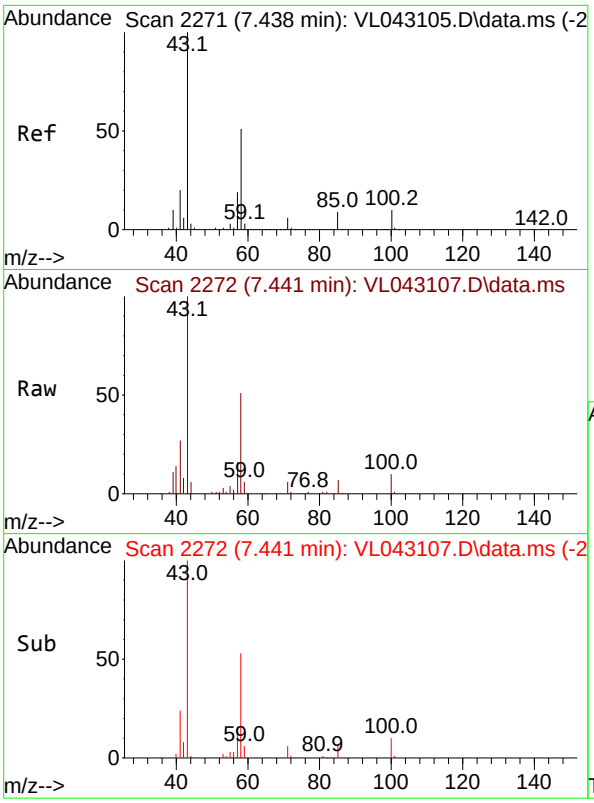


#50
4-Methyl-2-Pentanone
Concen: 1.061 ppbv m
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 33269

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7#

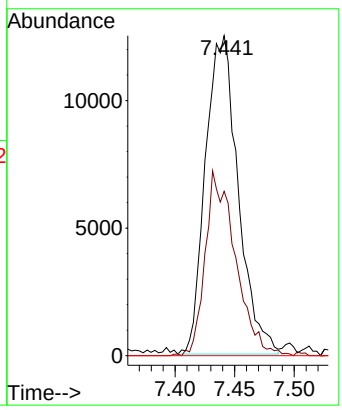




#51
2-Hexanone
Concen: 1.018 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 2381

Ion	Ratio	Lower	Upper
43	100		
58	53.7	40.4	60.6
98	0.0	0.1	0.1



Instrument :
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ClientSampleId :
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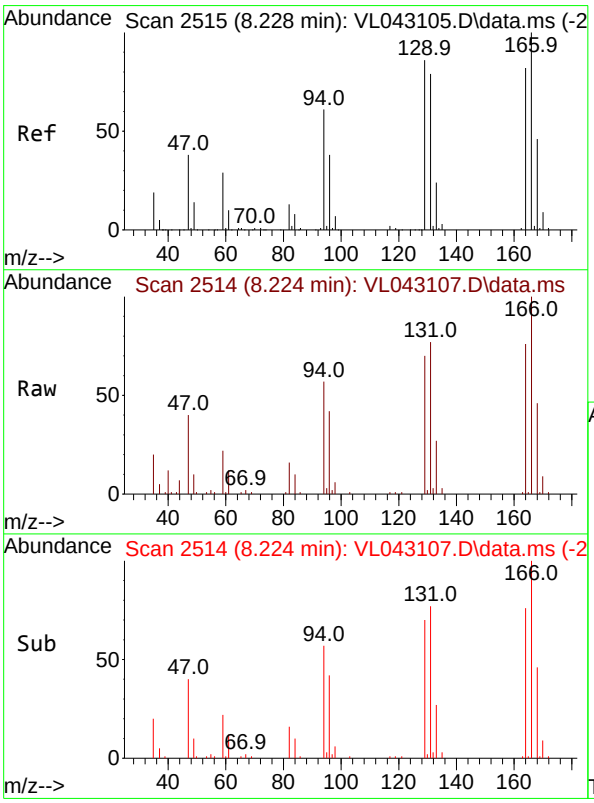
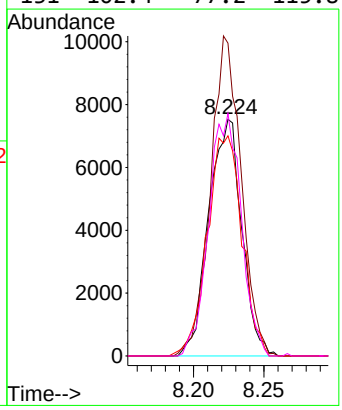
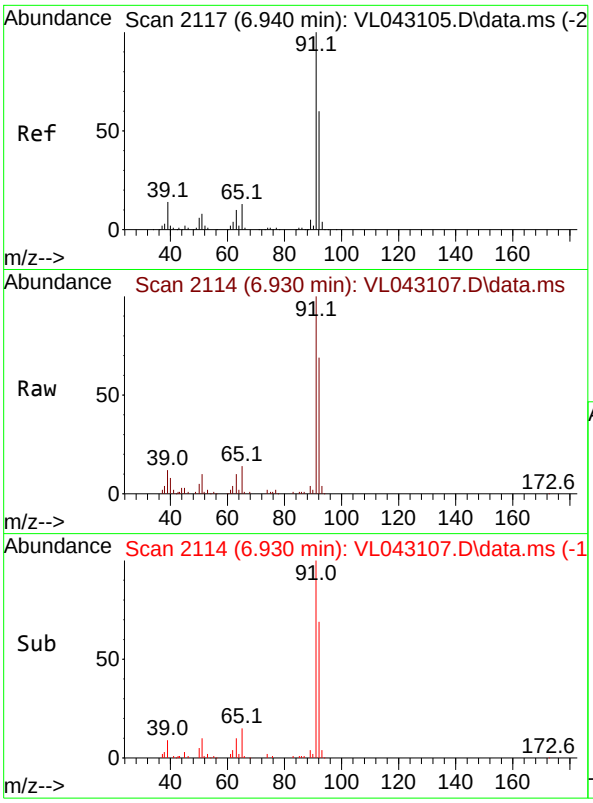


#52
Tetrachloroethene
Concen: 1.079 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:164 Resp: 12319

Ion	Ratio	Lower	Upper
164	100		
166	132.1	97.6	146.4
129	93.0	84.5	126.7
131	102.4	77.2	115.8

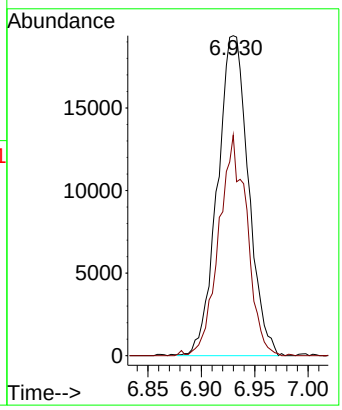




#53
Toluene
Concen: 1.040 ppbv
RT: 6.930 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 3907

Ion	Ratio	Lower	Upper
91	100		
92	62.8	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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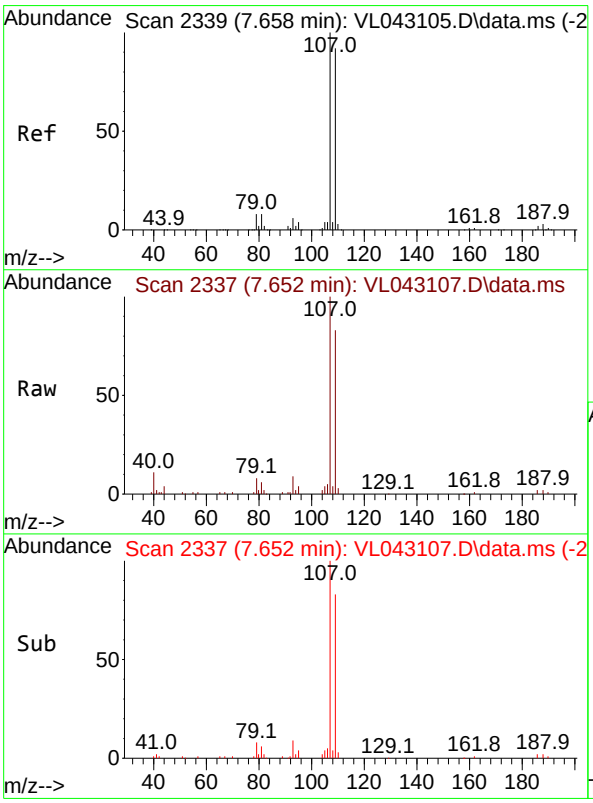
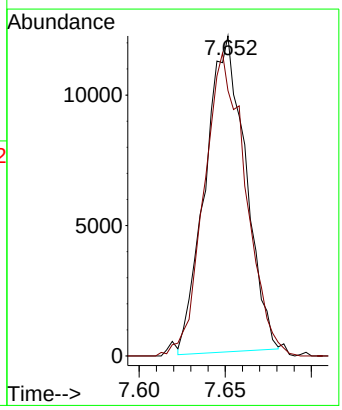
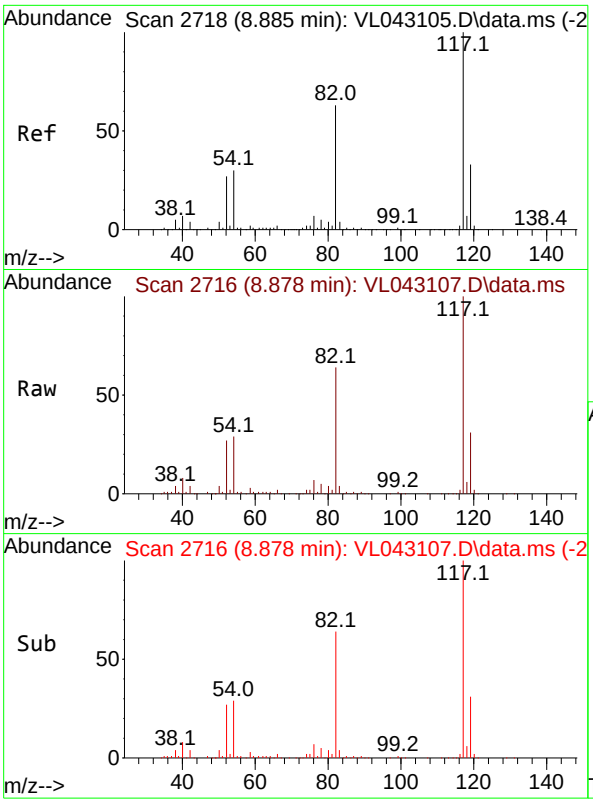


#54
1,2-Dibromoethane
Concen: 0.999 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:107 Resp: 19711

Ion	Ratio	Lower	Upper
107	100		
109	80.7	73.4	110.2

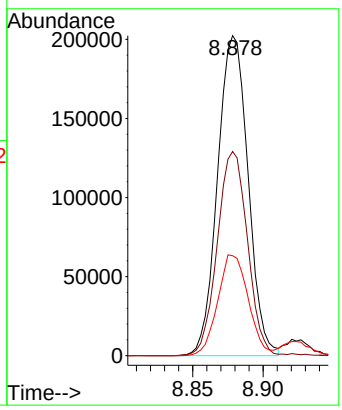




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:117 Resp: 30540

Ion	Ratio	Lower	Upper
117	100		
82	63.4	53.8	80.8
119	32.3	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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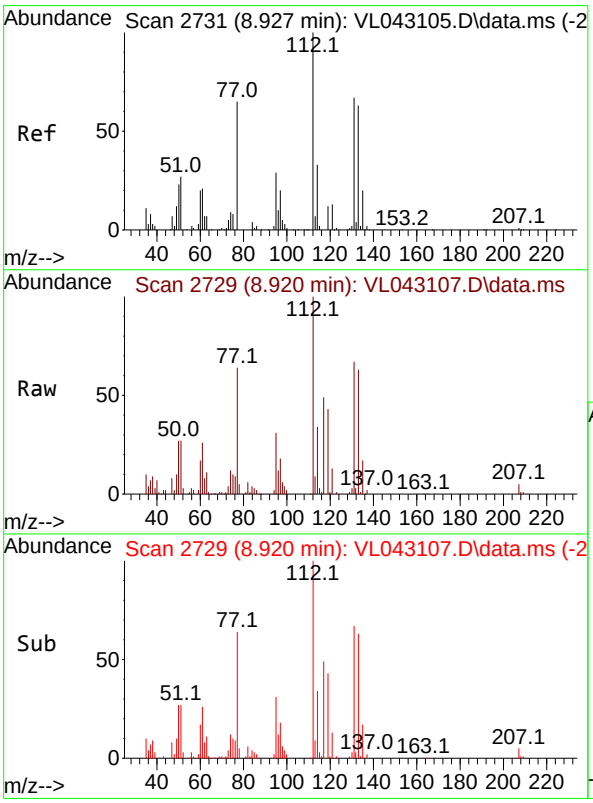
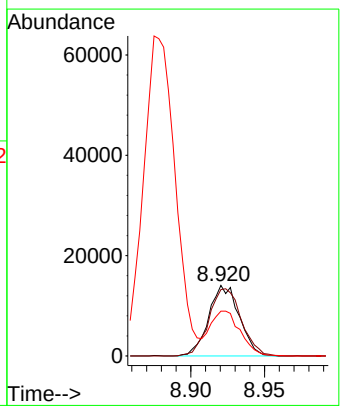
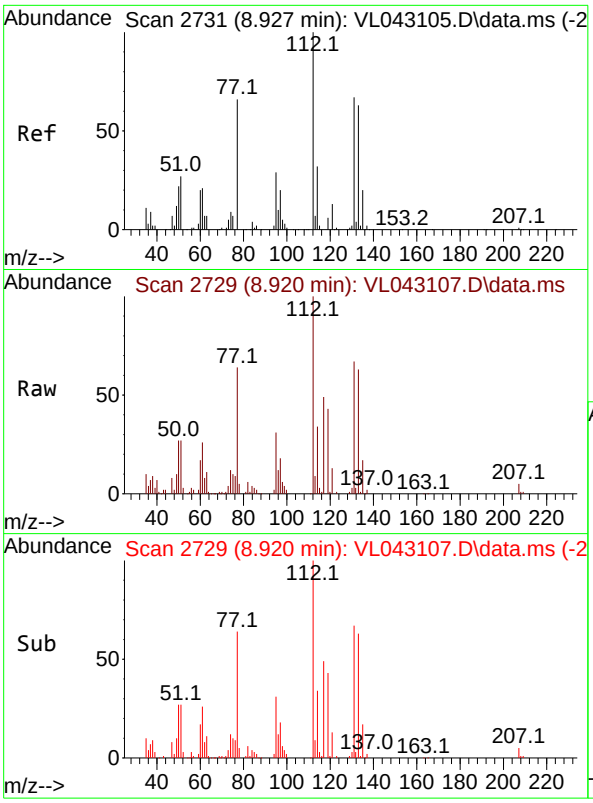


#56
1,1,1,2-Tetrachloroethane
Concen: 1.053 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:131 Resp: 20279

Ion	Ratio	Lower	Upper
131	100		
133	100.9	75.7	113.5
119	62.1	50.6	76.0

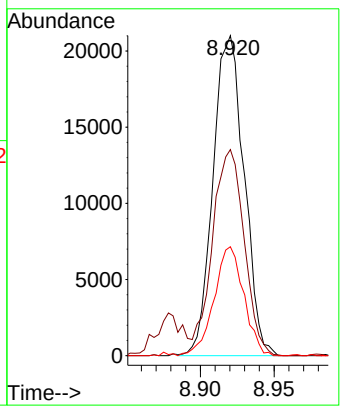




#57
Chlorobenzene
Concen: 1.079 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:112 Resp: 3082

Ion	Ratio	Lower	Upper
112	100		
77	64.2	53.3	79.9
114	34.1	29.3	35.8



Instrument :
MSVOA_L
ClientSampleId :
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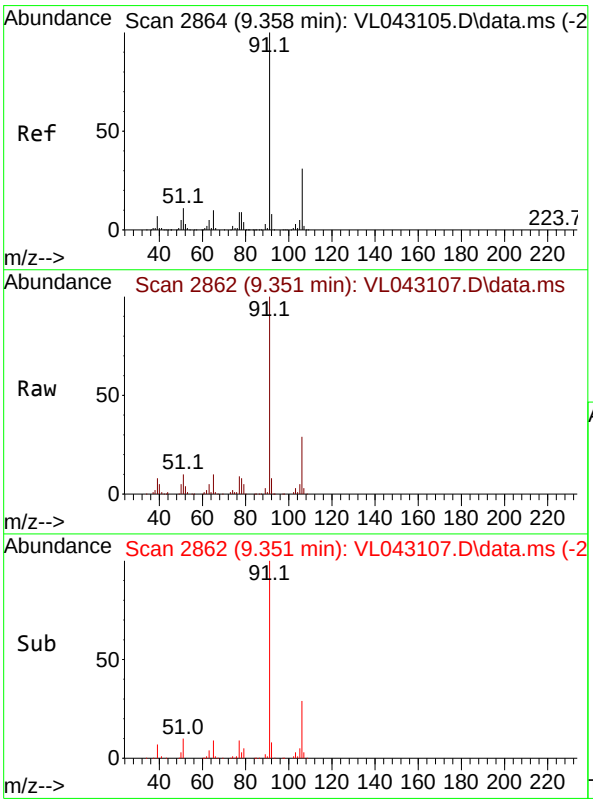
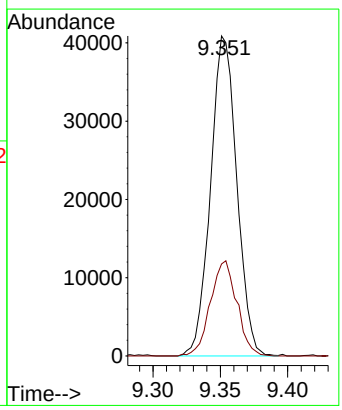
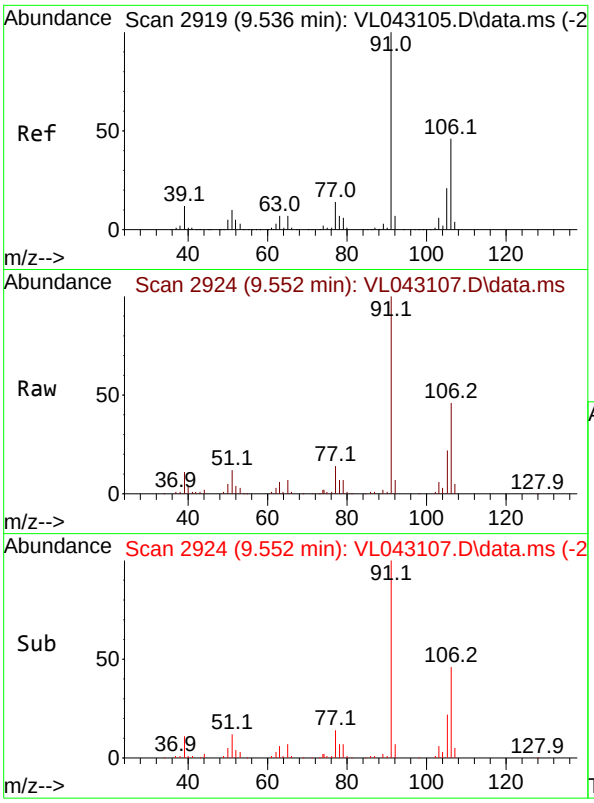


#58
Ethyl Benzene
Concen: 1.049 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 55420

Ion	Ratio	Lower	Upper
91	100		
106	28.7	24.8	37.2





#59
m/p-Xylene
Concen: 2.127 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 8899

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0

Instrument :
MSVOA_L
ClientSampleId :
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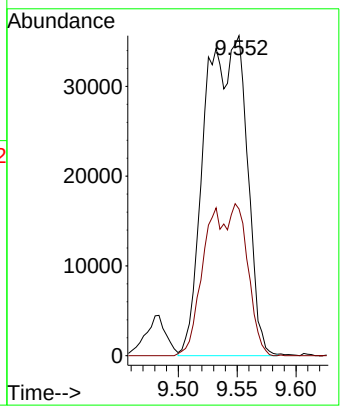
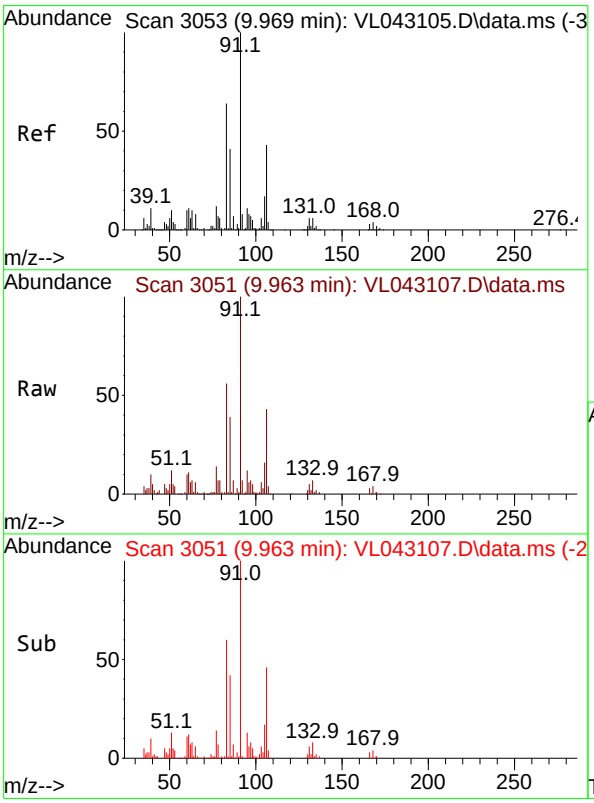
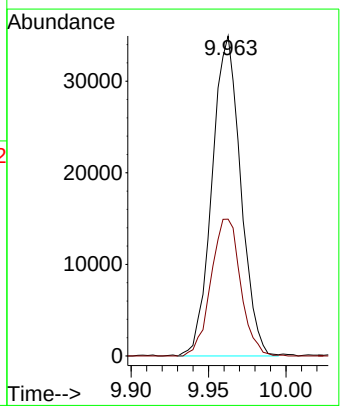


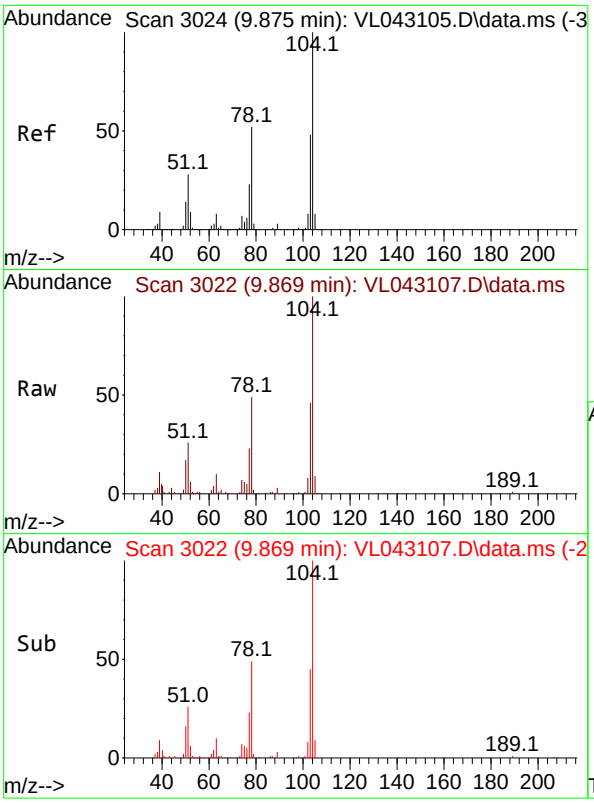


#60
o-Xylene
Concen: 1.088 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 44925

Ion	Ratio	Lower	Upper
91	100		
106	44.1	21.9	65.8

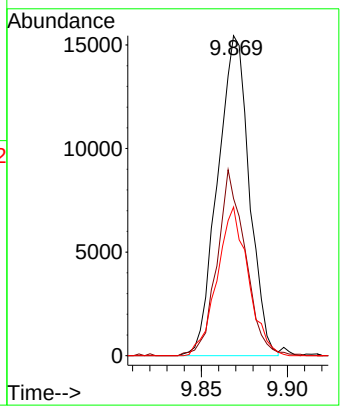




#61
Styrene
Concen: 1.063 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:104 Resp: 1980

Ion	Ratio	Lower	Upper
104	100		
78	51.8	40.2	60.2
103	45.5	36.9	55.3



Instrument :
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ClientSampleId :
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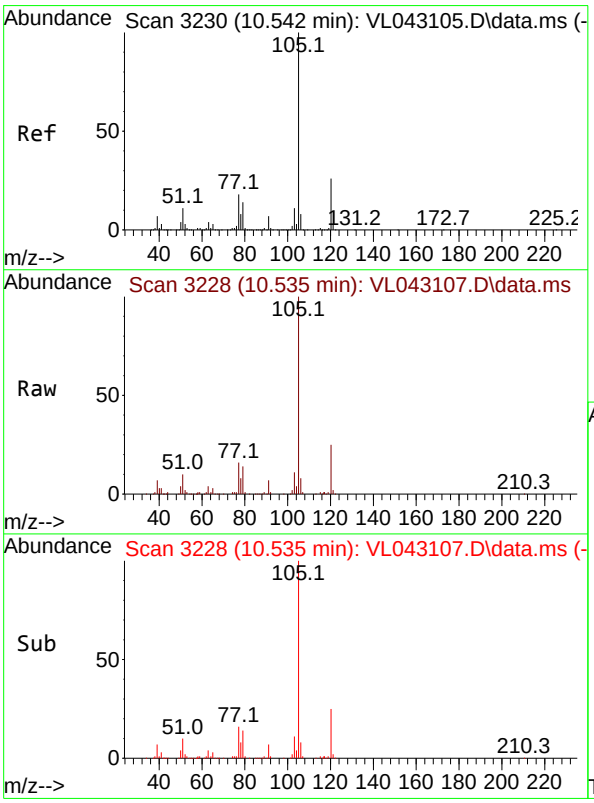
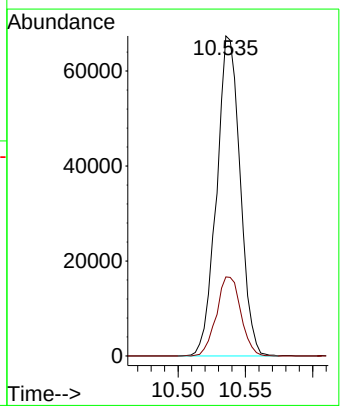
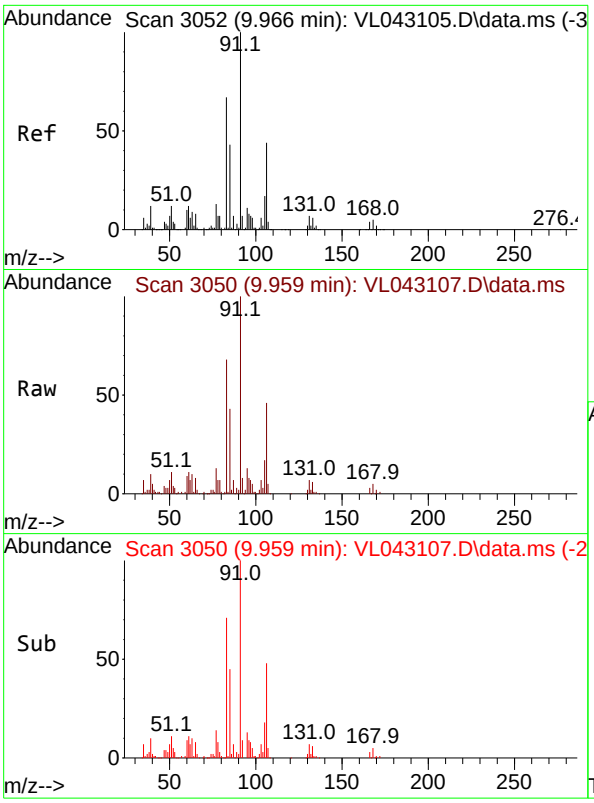


#62
Isopropylbenzene
Concen: 1.093 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 81579

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.2	30.4

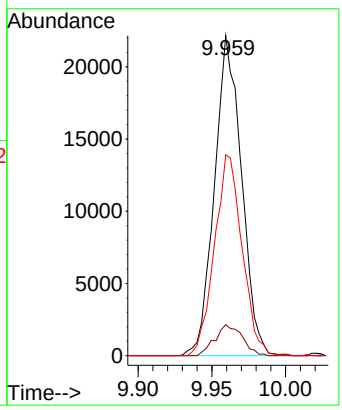




#63
1,1,2,2-Tetrachloroethane
Concen: 1.021 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 83 Resp: 2823

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.3
85	64.3	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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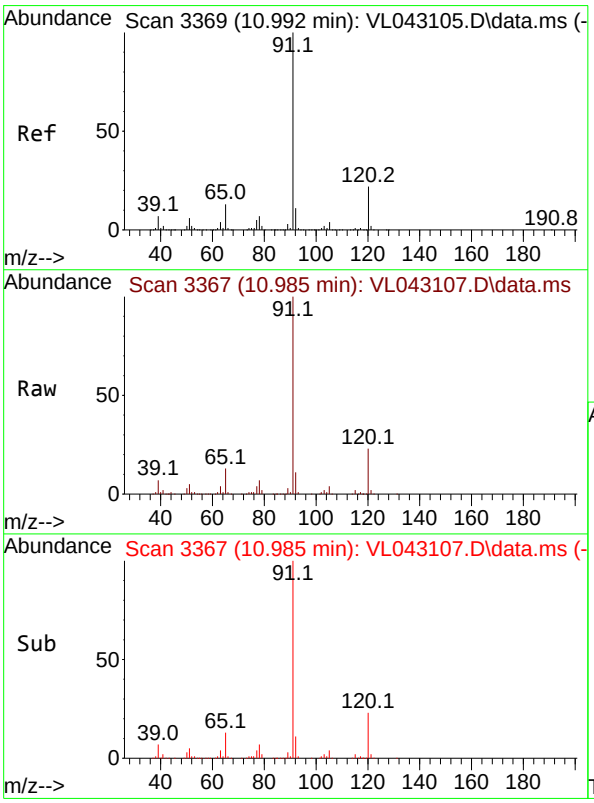
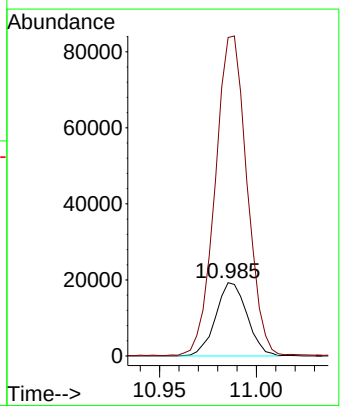
Supervised By :Mahesh Dadoda 10/16/2025

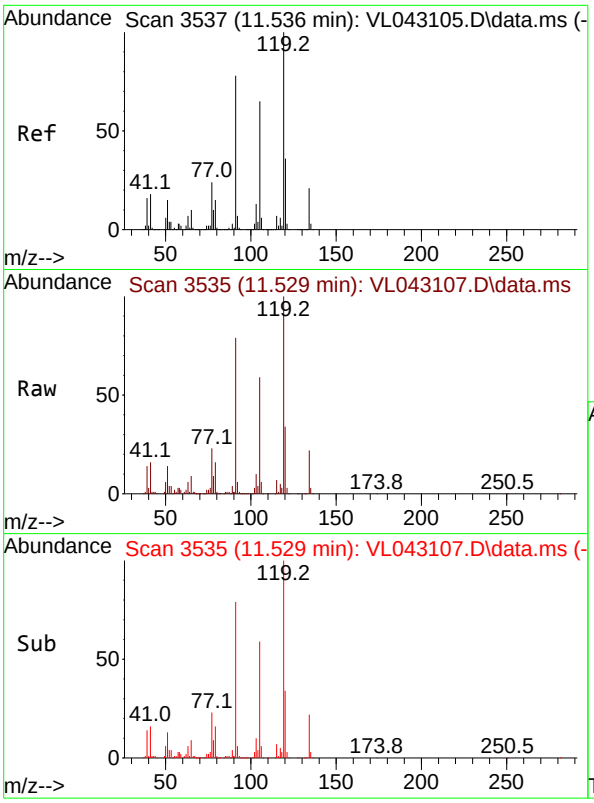


#64
n-propylbenzene
Concen: 1.098 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:120 Resp: 21685

Ion	Ratio	Lower	Upper
120	100		
91	446.5	361.6	542.4

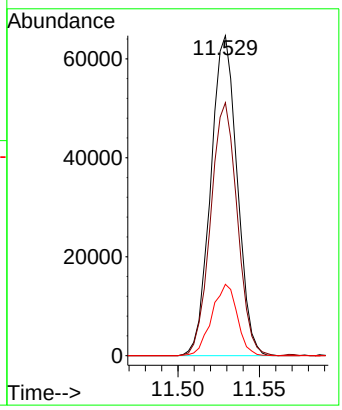




#65
tert-Butylbenzene
Concen: 1.105 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:119 Resp: 7278

Ion	Ratio	Lower	Upper
119	100		
91	79.8	63.4	95.0
134	21.5	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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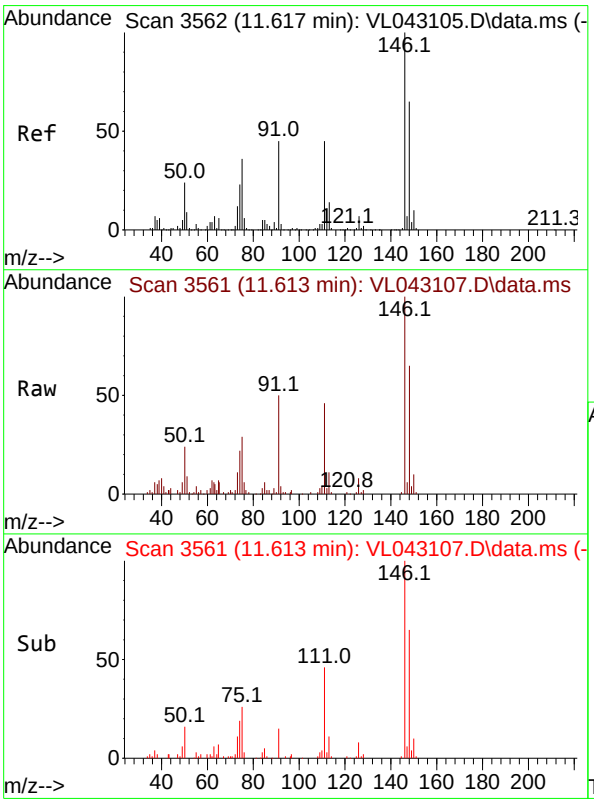
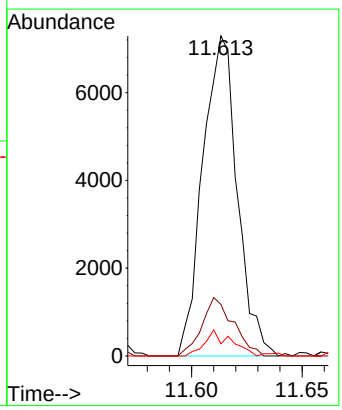
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

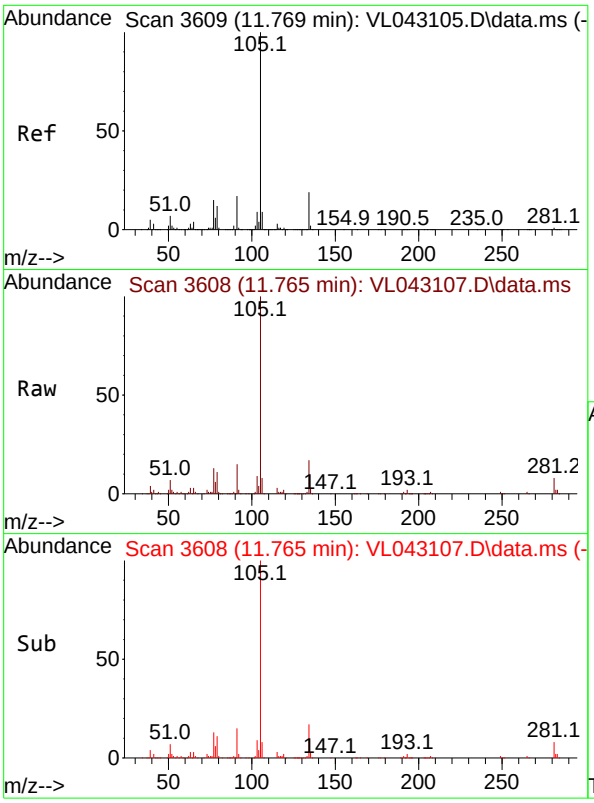


#66
Benzyl Chloride
Concen: 1.076 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 7918

Ion	Ratio	Lower	Upper
91	100		
126	16.6	14.6	22.0
128	6.6	4.6	6.8





#67
sec-Butylbenzene
Concen: 1.103 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 10315

Ion	Ratio	Lower	Upper
105	100		
134	19.2	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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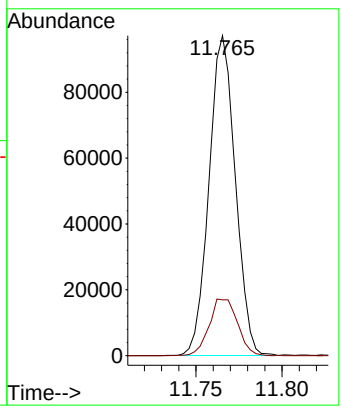
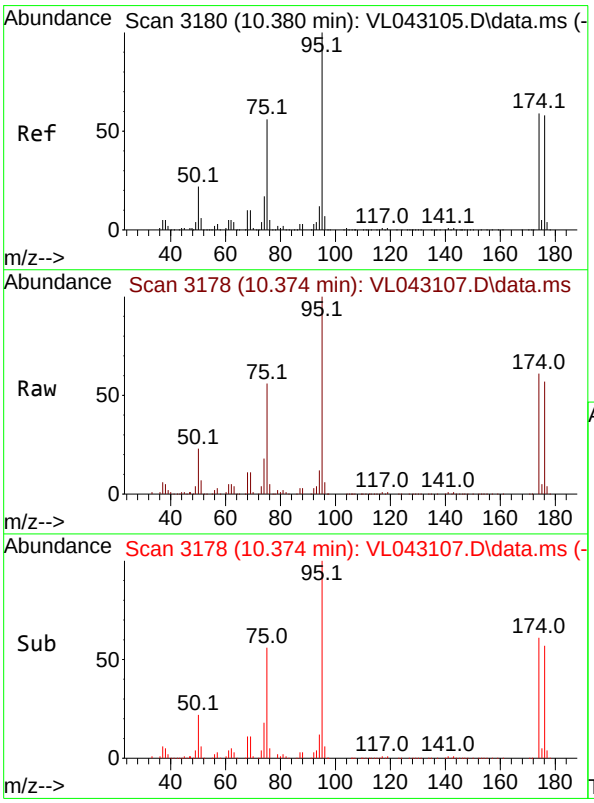
Supervised By :Mahesh Dadoda 10/16/2025

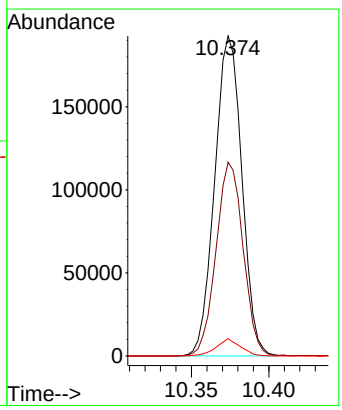


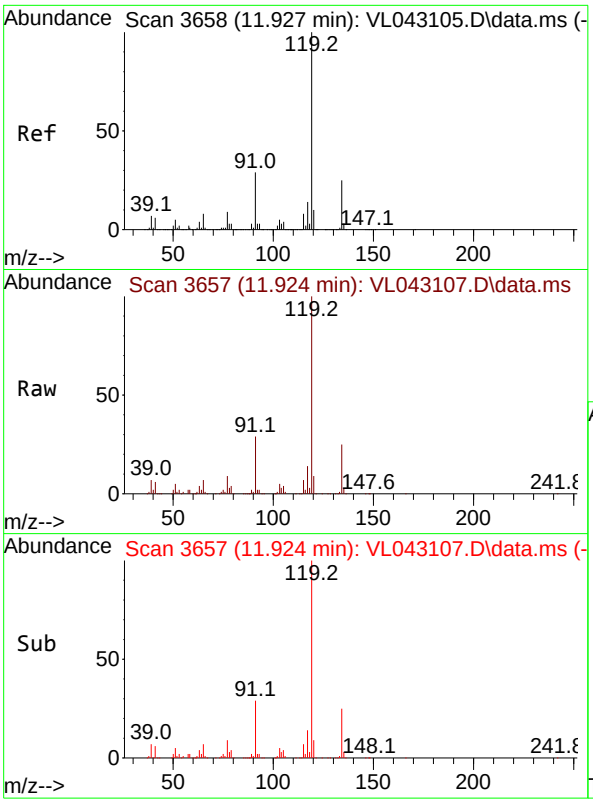


#68
1-Bromo-4-Fluorobenzene
Concen: 9.912 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 95 Resp: 235307

Ion	Ratio	Lower	Upper
95	100		
174	60.3	48.3	72.5
175	4.8	3.8	5.8

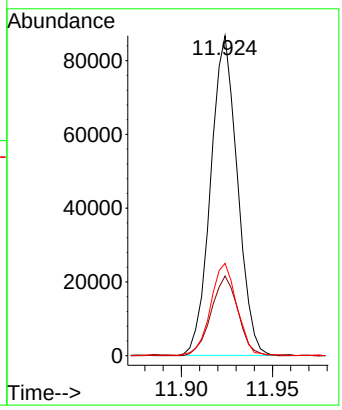




#69
p-Isopropyltoluene
Concen: 1.113 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:119 Resp: 8844

Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.3	30.5
91	28.9	22.6	33.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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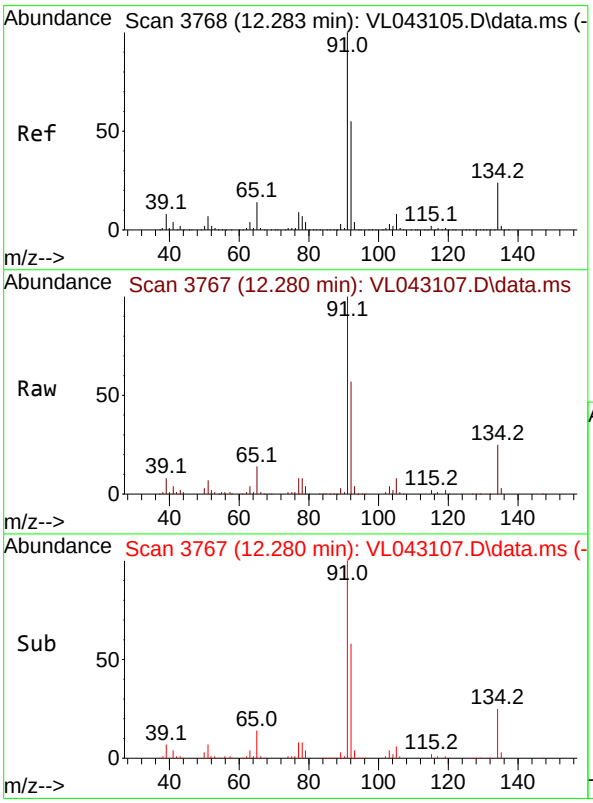
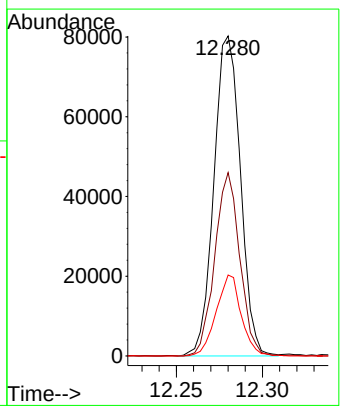
Supervised By :Mahesh Dadoda 10/16/2025

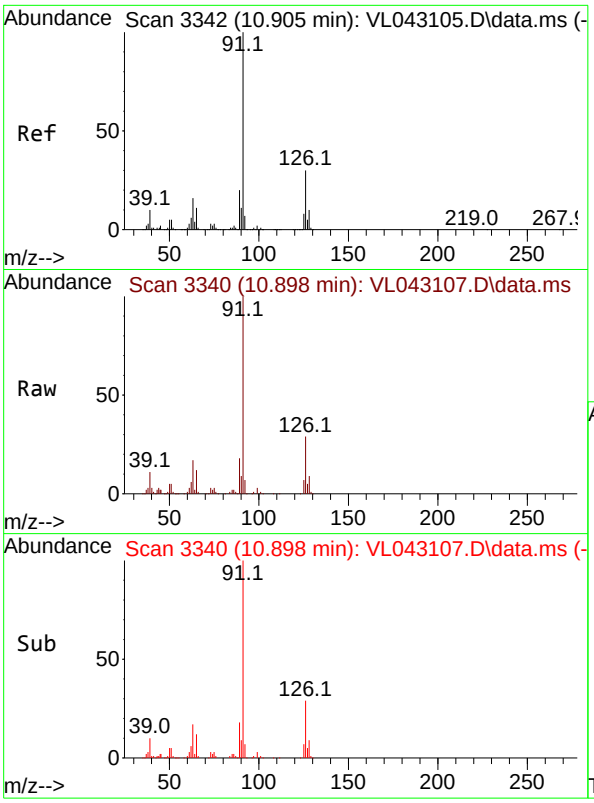


#70
n-Butylbenzene
Concen: 1.100 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 86120

Ion	Ratio	Lower	Upper
91	100		
92	54.1	44.5	66.7
134	23.9	19.3	28.9

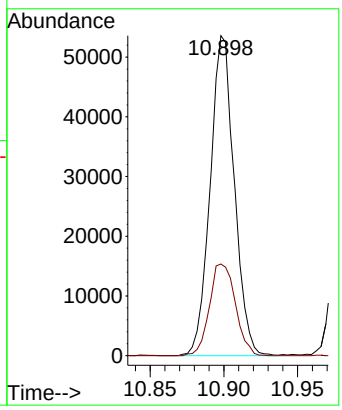




#71
2-Chlorotoluene
Concen: 1.072 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 6099

Ion	Ratio	Lower	Upper
91	100		
126	30.8	12.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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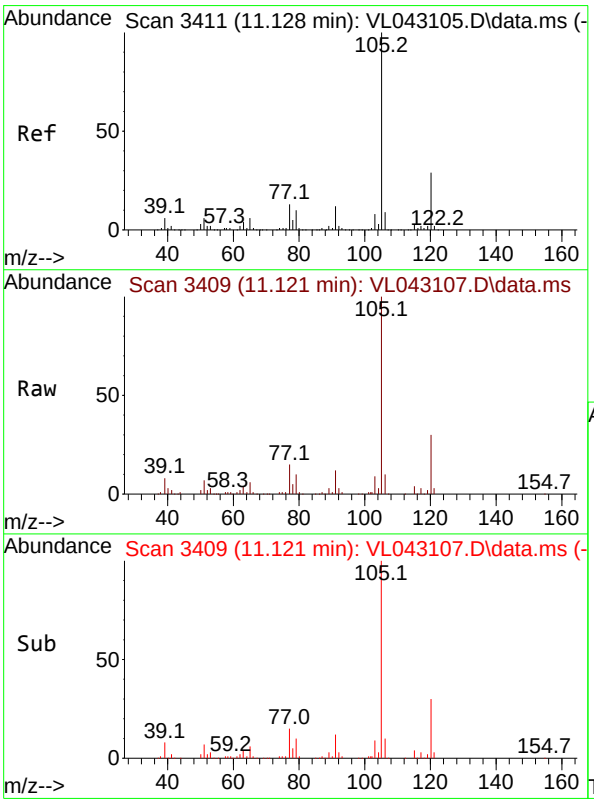
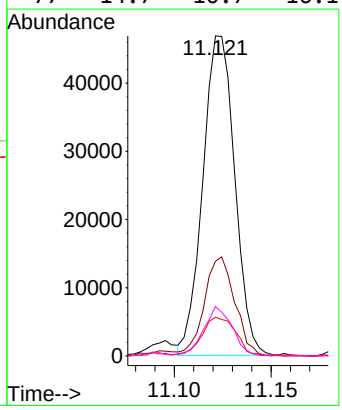
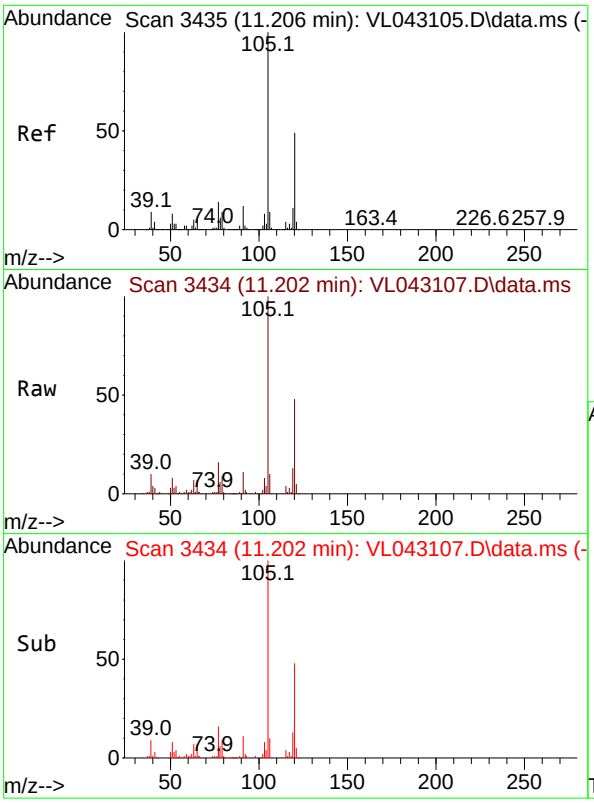


#72
4-Ethyltoluene
Concen: 1.059 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 53788

Ion	Ratio	Lower	Upper
105	100		
120	31.0	24.2	36.4
91	14.0	10.0	15.0
77	14.7	10.7	16.1

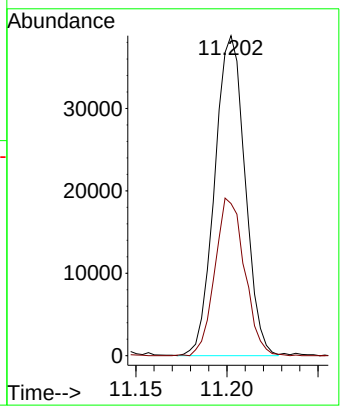




#73
1,3,5-Trimethylbenzene
Concen: 1.070 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 4478

Ion	Ratio	Lower	Upper
105	100		
120	47.3	39.0	58.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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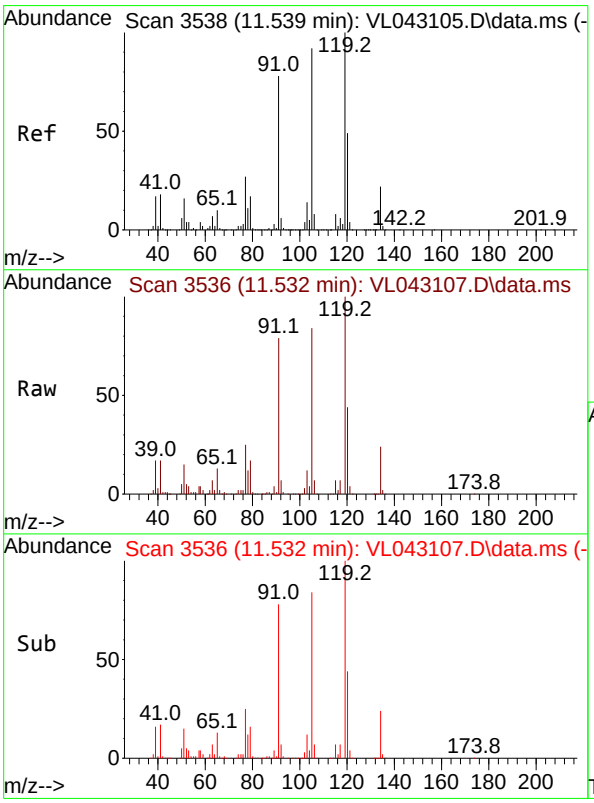
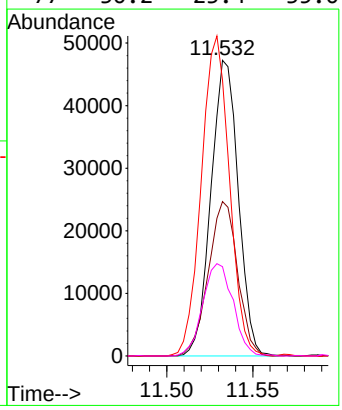
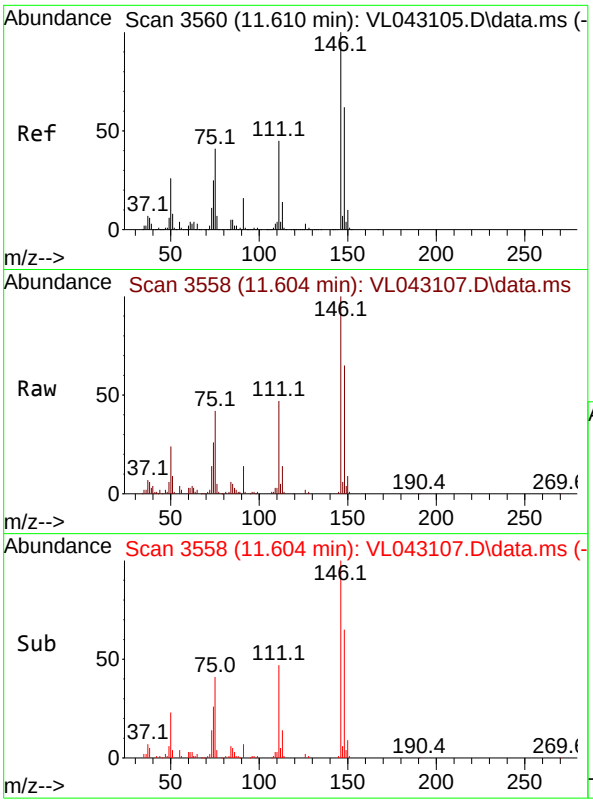


#74
1,2,4-Trimethylbenzene
Concen: 1.112 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 52118

Ion	Ratio	Lower	Upper
105	100		
120	52.2	42.8	64.2
91	93.1	68.3	102.5
77	30.2	23.4	35.0

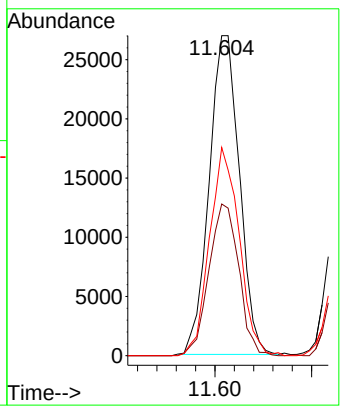




#75
1,3-Dichlorobenzene
Concen: 1.074 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:146 Resp: 2918

Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.3	69.9
148	64.0	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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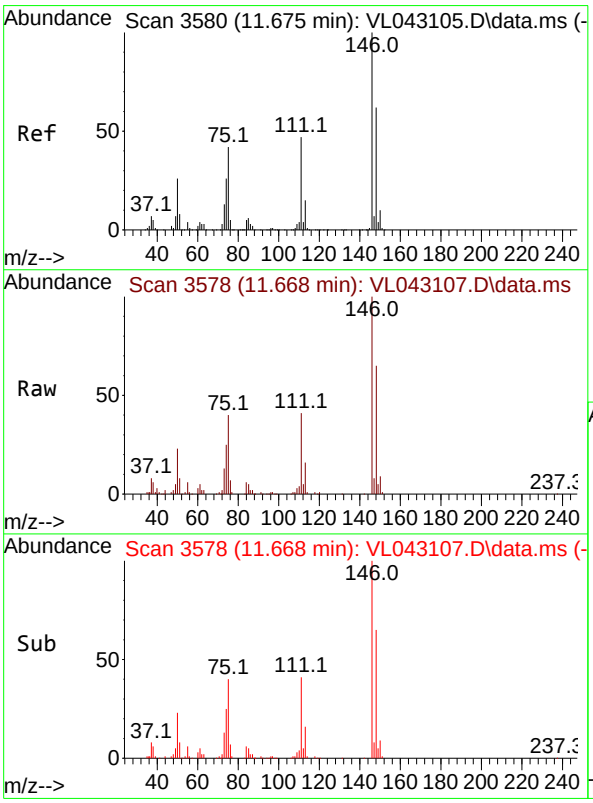
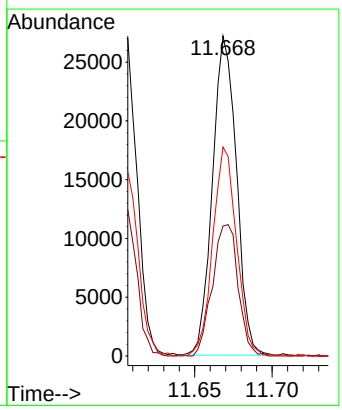
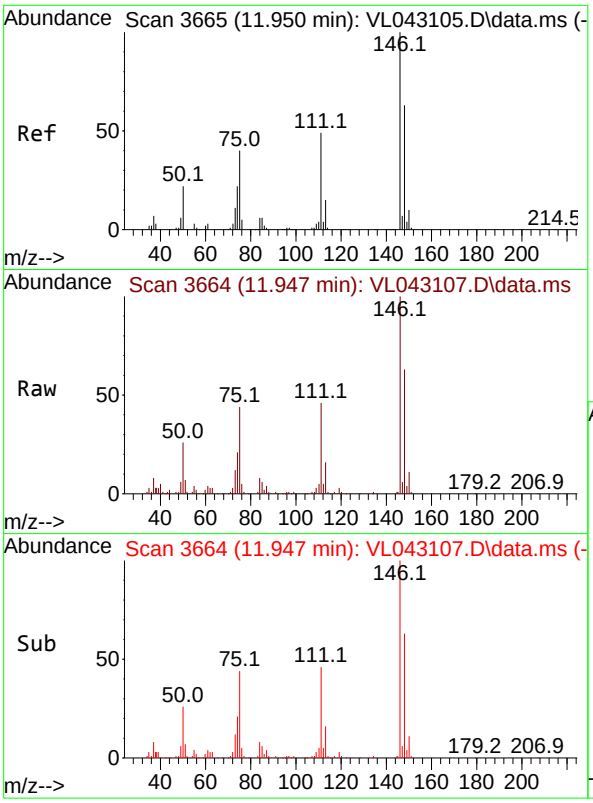


#76
1,4-Dichlorobenzene
Concen: 1.066 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:146 Resp: 29225

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.4	67.0
148	65.0	31.6	94.7

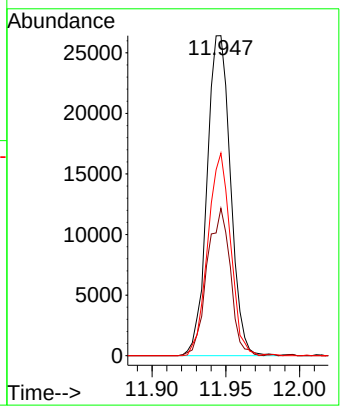




#77
1,2-Dichlorobenzene
Concen: 1.109 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:146 Resp: 2914

Ion	Ratio	Lower	Upper
146	100		
111	45.8	24.0	72.0
148	61.5	31.1	93.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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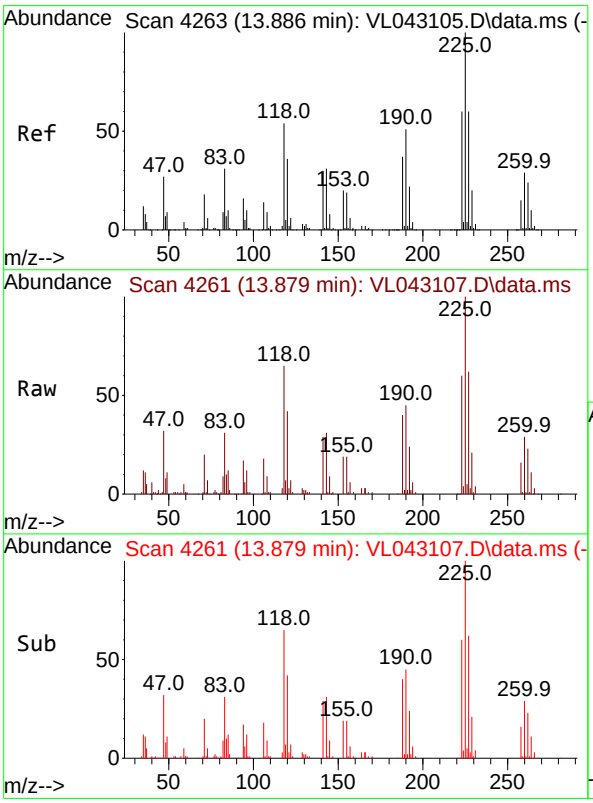
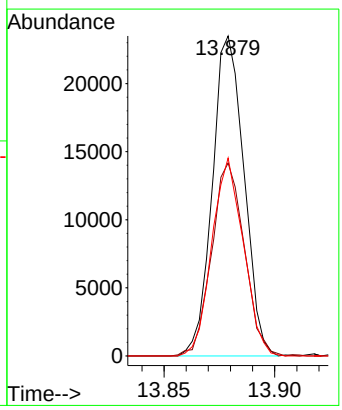
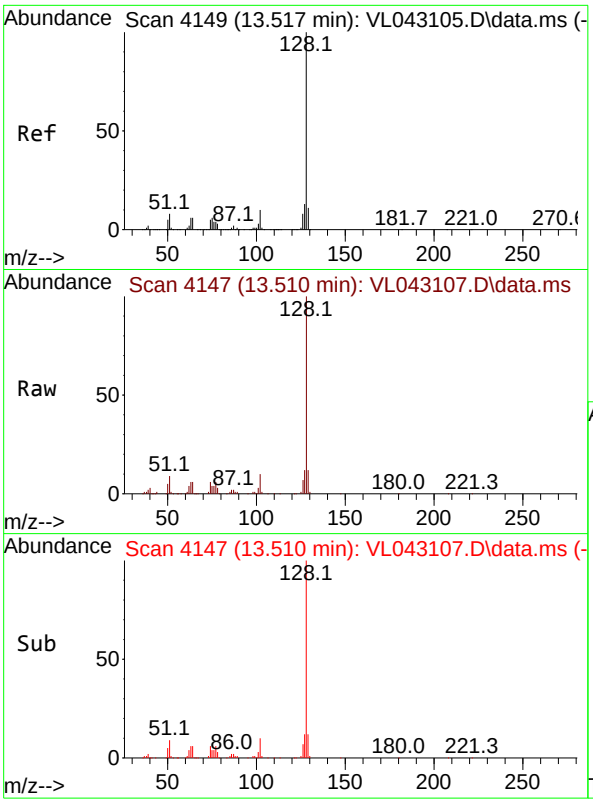


#78
Hexachloro-1,3-Butadiene
Concen: 1.146 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:225 Resp: 23330

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.2	75.4
227	61.6	49.6	74.4

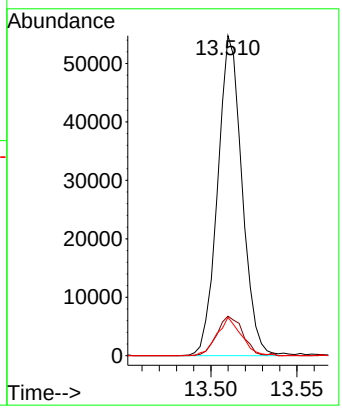




#79
Naphthalene
Concen: 1.114 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:128 Resp: 5393(

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.5	15.7
129	12.0	9.1	13.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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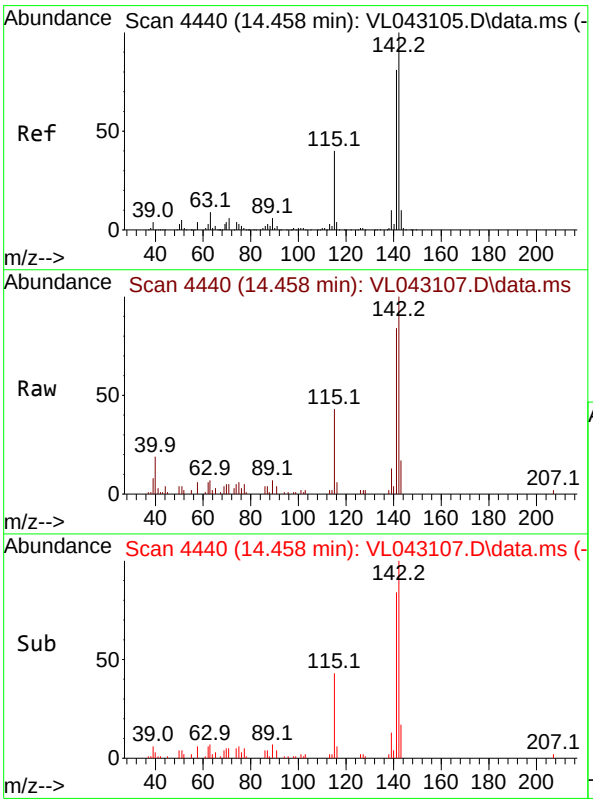
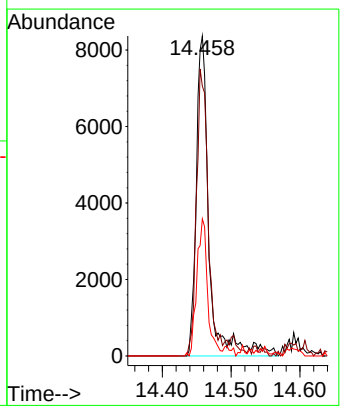
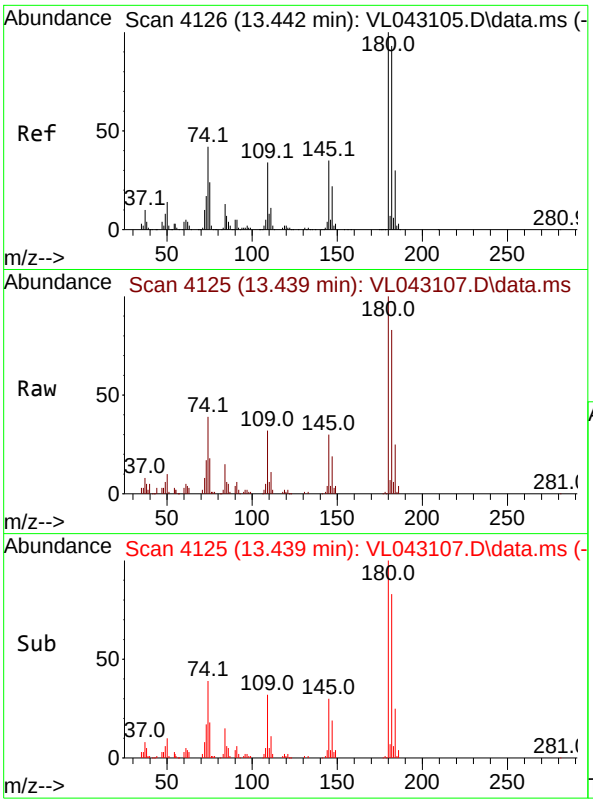


#80
Naphthalene,2-methyl-
Concen: 0.849 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:142 Resp: 10851

Ion	Ratio	Lower	Upper
142	100		
141	88.9	64.6	97.0
115	38.1	30.2	45.4

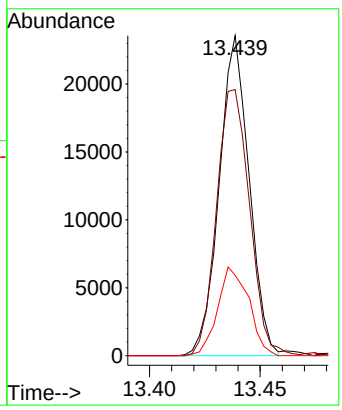




#81
1,2,4-Trichlorobenzene
Concen: 1.090 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:180 Resp: 2216

Ion	Ratio	Lower	Upper
180	100		
182	92.5	75.5	113.3
184	28.8	23.9	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043108.D
Acq On : 14 Oct 2025 12:34
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:53:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	101636	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	336188	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	303445	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	232904	9.875	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	7851	0.543	ppbv		98
3) Chlorodifluoromethane	1.479	51	8497	0.543	ppbv	#	89
4) Chloromethane	1.534	50	3254	0.568	ppbv	#	88
5) Vinyl Chloride	1.583	62	2857	0.509	ppbv		96
6) Bromomethane	1.670	94	1709	0.555	ppbv		100
7) Chloroethane	1.706	64	1326	0.578	ppbv	#	85
8) Dichlorotetrafluoroethane	1.557	85	5970	0.511	ppbv		92
9) Propene	1.486	41	3750	0.541	ppbv		92
10) Heptane	4.981	43	11097m	0.558	ppbv		
11) Trichlorofluoromethane	1.881	101	7672	0.543	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.143	101	6173	0.543	ppbv		100
13) Ethanol	1.725	45	1468	0.572	ppbv		86
14) Bromoethene	1.787	108	2444	0.578	ppbv	#	90
15) Acetone	1.839	43	7931	0.576	ppbv	#	88
16) 1,3-Butadiene	1.612	39	3962	0.607	ppbv		91
17) tert-Butyl alcohol	2.046	59	10213	0.543	ppbv	#	88
18) 1,1-Dichloroethene	2.039	96	2636	0.531	ppbv		91
19) Isopropyl Alcohol	1.887	45	4932	0.578	ppbv	#	43
20) Methylene Chloride	2.065	84	3750	0.693	ppbv	#	75
21) Allyl Chloride	2.098	41	5575	0.551	ppbv		98
22) trans-1,2-Dichloroethene	2.344	96	3093	0.522	ppbv		98
23) Vinyl Acetate	2.467	43	10914	0.544	ppbv	#	96
24) 1,1-Dichloroethane	2.412	63	5942	0.519	ppbv		99
25) Ethyl Acetate	2.845	43	17918	0.527	ppbv	#	96
26) Hexane	2.829	57	8908	0.569	ppbv		95
27) Carbon Disulfide	2.153	76	7230	0.504	ppbv	#	1
28) Methyl tert-Butyl Ether	2.444	73	3770	0.529	ppbv	#	47
29) Chloroform	2.852	83	12384	0.546	ppbv		100
30) Cyclohexane	3.862	84	7586m	0.556	ppbv		
31) cis-1,2-Dichloroethene	2.725	61	7576	0.507	ppbv	#	88
32) 1,1,1-Trichloroethane	3.373	97	12234	0.518	ppbv		97
34) 2-Butanone	2.564	43	12659	0.557	ppbv		99
35) Carbon Tetrachloride	3.768	117	11931	0.494	ppbv		87
36) Benzene	3.661	78	16376	0.517	ppbv		94
37) 1,2-Dichloroethane	3.224	62	9907	0.543	ppbv		99
38) Trichloroethene	4.554	130	6745	0.511	ppbv		95
39) 1,2-Dichloropropane	4.318	63	6032	0.521	ppbv	#	80
40) 1,4-Dioxane	4.609	88	2794m	0.539	ppbv		
41) Tetrahydrofuran	3.065	42	7174m	0.565	ppbv		
42) Bromodichloromethane	4.496	83	13094	0.519	ppbv		96
43) Methyl Methacrylate	4.888	69	8412m	0.521	ppbv		
44) 2,2,4-Trimethylpentane	4.648	57	28494m	0.538	ppbv		
45) t-1,3-Dichloropropene	6.425	75	8030	0.498	ppbv		94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043108.D
Acq On : 14 Oct 2025 12:34
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:53:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	9973m	0.518	ppbv		
47) 1,1,2-Trichloroethane	6.587	97	6996	0.560	ppbv		92
48) Dibromochloromethane	7.393	129	10413	0.498	ppbv		96
49) Bromoform	9.487	173	8455	0.498	ppbv		96
50) 4-Methyl-2-Pentanone	5.771	43	16289m	0.520	ppbv		
51) 2-Hexanone	7.451	43	11485	0.491	ppbv	#	94
52) Tetrachloroethene	8.231	164	5863	0.513	ppbv	#	90
53) Toluene	6.936	91	20380	0.542	ppbv		99
54) 1,2-Dibromoethane	7.661	107	9586	0.486	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.930	131	10044	0.525	ppbv	#	1
57) Chlorobenzene	8.927	112	15318	0.540	ppbv		95
58) Ethyl Benzene	9.357	91	27330	0.521	ppbv		91
59) m/p-Xylene	9.539	91	44407m	1.068	ppbv		
60) o-Xylene	9.969	91	21745	0.530	ppbv		96
61) Styrene	9.878	104	9052	0.489	ppbv		96
62) Isopropylbenzene	10.542	105	38899	0.525	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	13653	0.497	ppbv		97
64) n-propylbenzene	10.992	120	10435	0.532	ppbv		99
65) tert-Butylbenzene	11.532	119	35537	0.543	ppbv		99
66) Benzyl Chloride	11.620	91	3477	0.476	ppbv	#	97
67) sec-Butylbenzene	11.769	105	50259	0.541	ppbv		100
69) p-Isopropyltoluene	11.927	119	41366	0.524	ppbv		99
70) n-Butylbenzene	12.283	91	39620	0.509	ppbv		98
71) 2-Chlorotoluene	10.901	91	29722	0.526	ppbv		98
72) 4-Ethyltoluene	11.128	105	26408	0.524	ppbv		98
73) 1,3,5-Trimethylbenzene	11.209	105	21754	0.523	ppbv		89
74) 1,2,4-Trimethylbenzene	11.539	105	25663	0.551	ppbv		93
75) 1,3-Dichlorobenzene	11.610	146	13697	0.507	ppbv		95
76) 1,4-Dichlorobenzene	11.675	146	14514	0.533	ppbv		99
77) 1,2-Dichlorobenzene	11.950	146	14324	0.548	ppbv		98
78) Hexachloro-1,3-Butadiene	13.885	225	11400	0.564	ppbv		98
79) Naphthalene	13.516	128	23247	0.483	ppbv	#	94
80) Naphthalene,2-methyl-	14.462	142	3874	0.305	ppbv	#	84
81) 1,2,4-Trichlorobenzene	13.442	180	8395	0.416	ppbv		98

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

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Acq On : 14 Oct 2025 12:34
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Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:53:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

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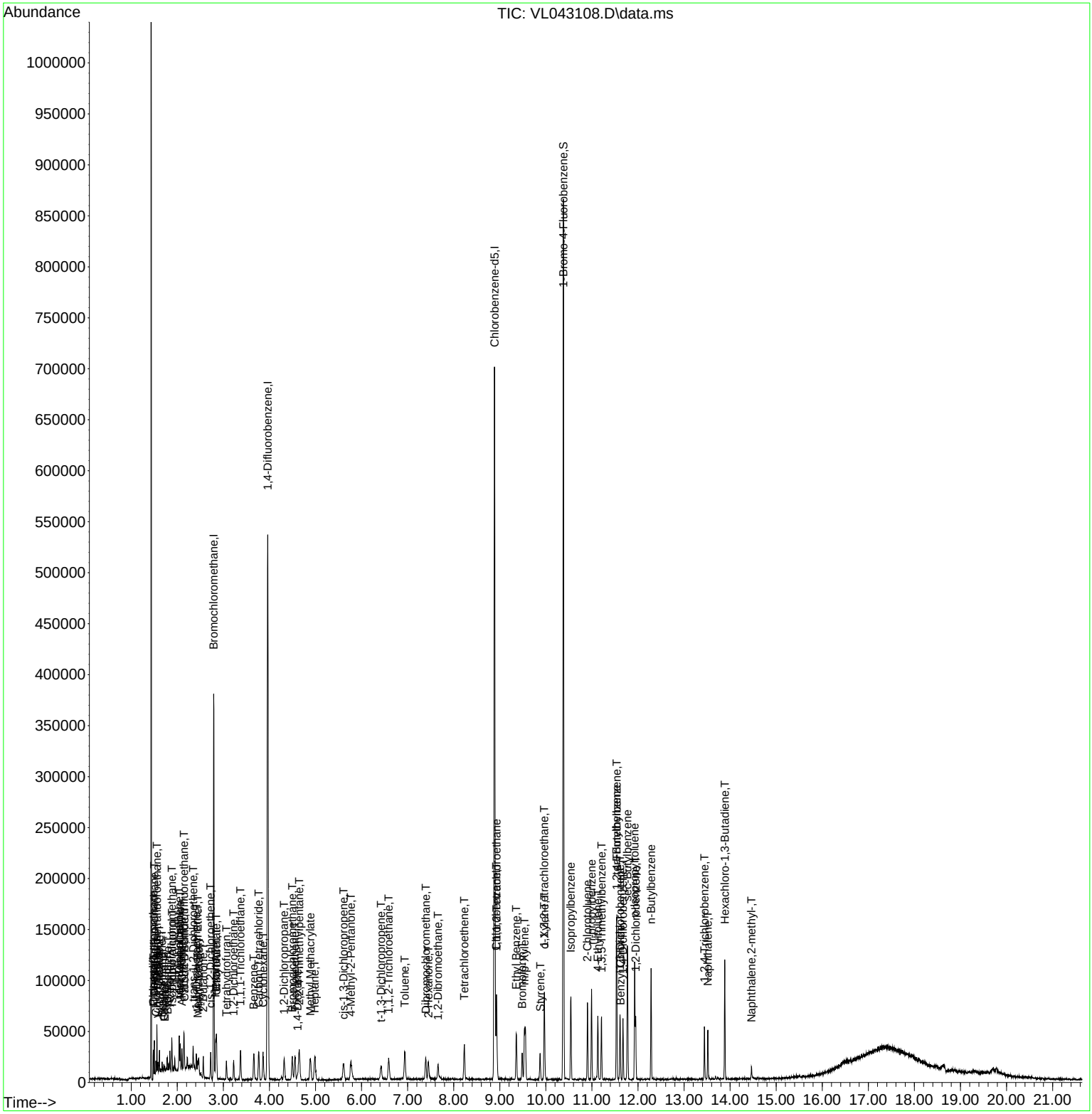

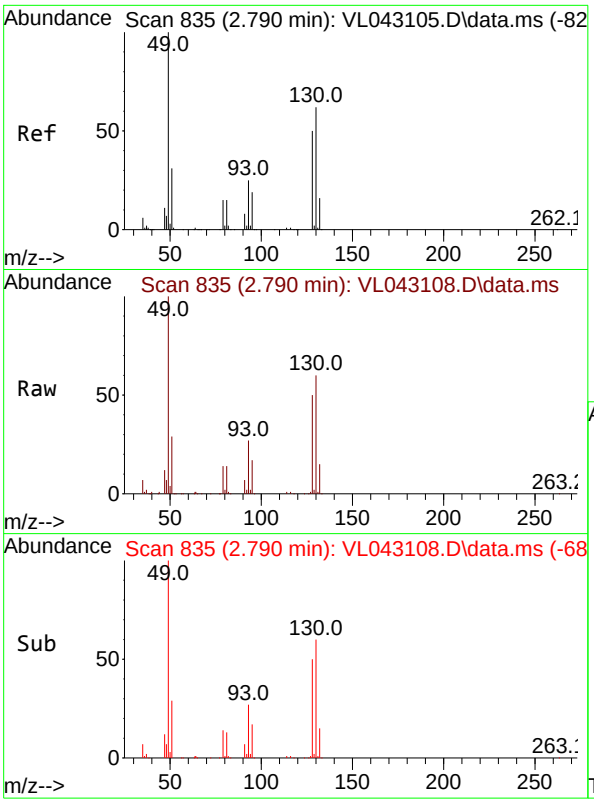

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 49 Resp: 10163

Ion	Ratio	Lower	Upper
49	100		
128	49.5	24.4	73.4
130	62.5	31.0	93.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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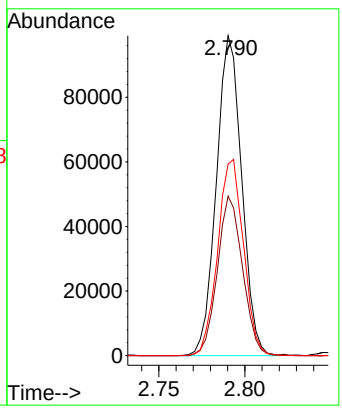
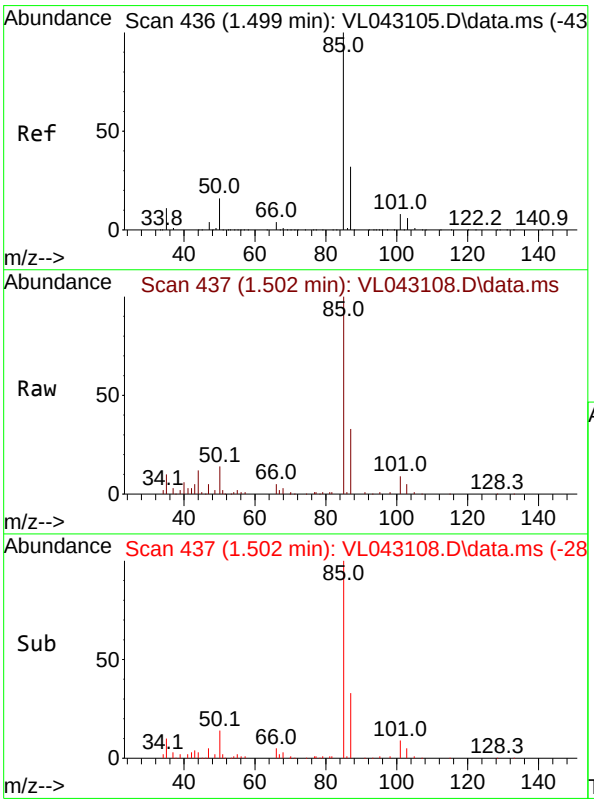
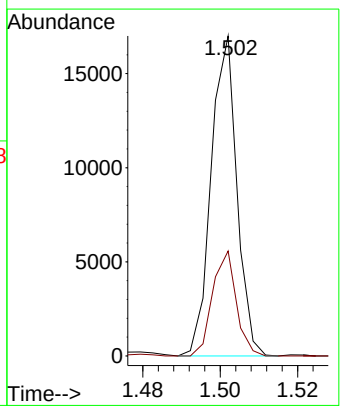


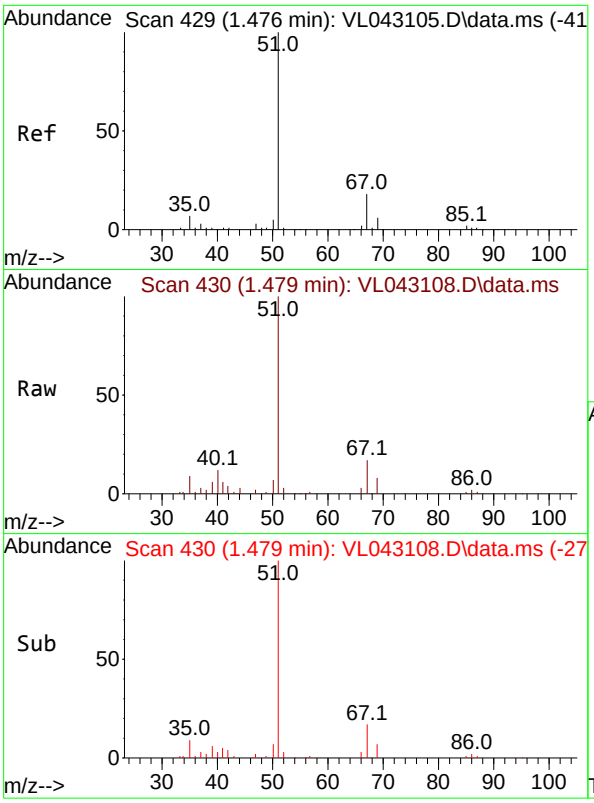


#2
Dichlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 7851

Ion	Ratio	Lower	Upper
85	100		
87	32.8	25.3	37.9

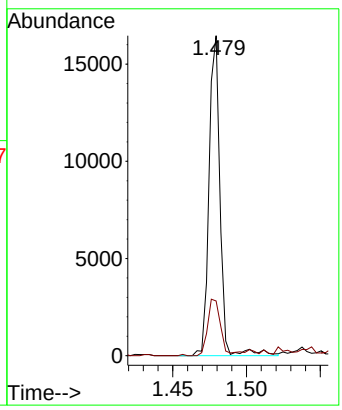




#3
Chlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 51 Resp: 849

Ion	Ratio	Lower	Upper
51	100		
67	23.8	15.1	22.7#



Instrument :
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ClientSampleId :
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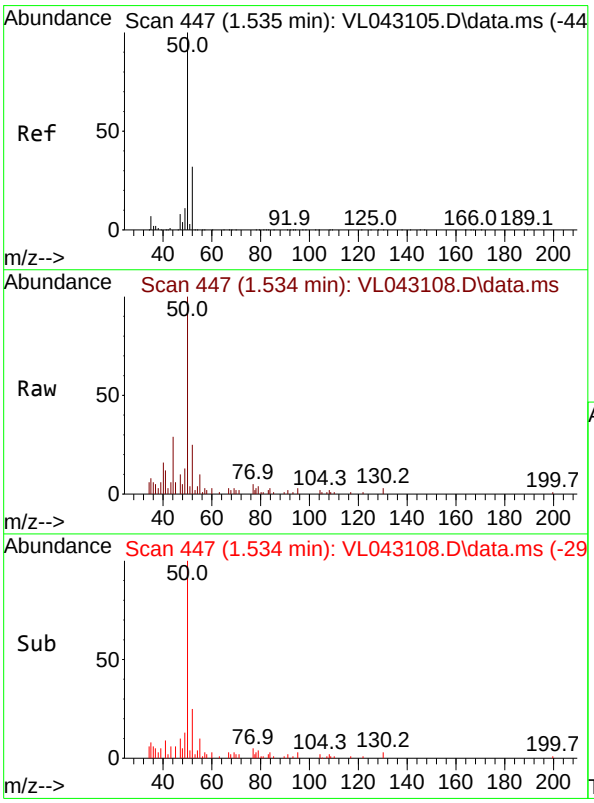
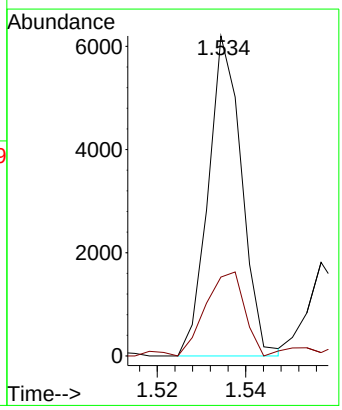
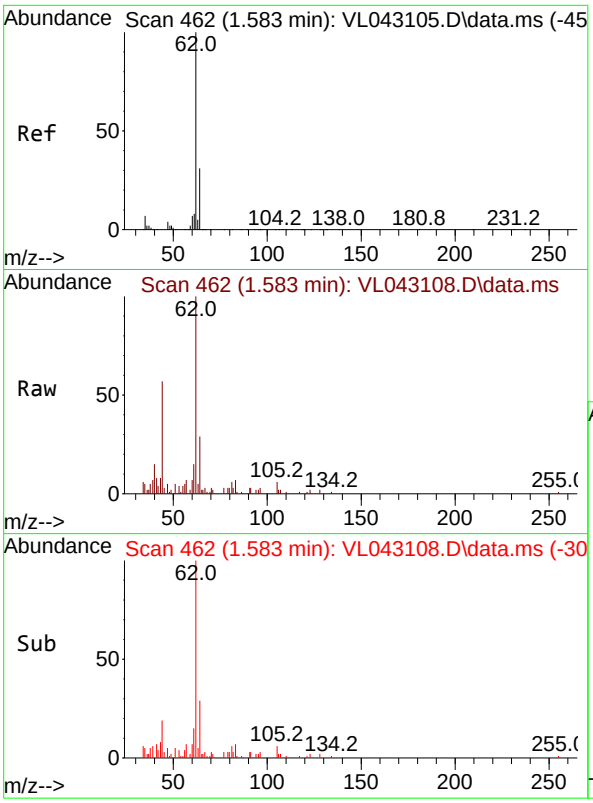


#4
Chloromethane
Concen: 0.568 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 50 Resp: 3254

Ion	Ratio	Lower	Upper
50	100		
52	24.7	25.2	37.8#

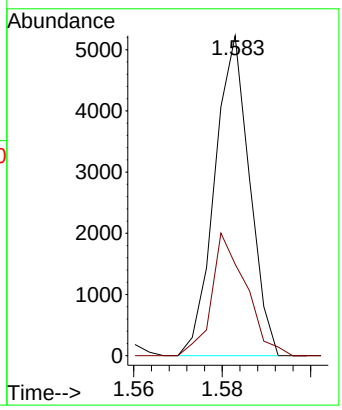




#5
Vinyl Chloride
Concen: 0.509 ppbv
RT: 1.583 min Scan# 4(
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 62 Resp: 285

Ion	Ratio	Lower	Upper
62	100		
64	28.6	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
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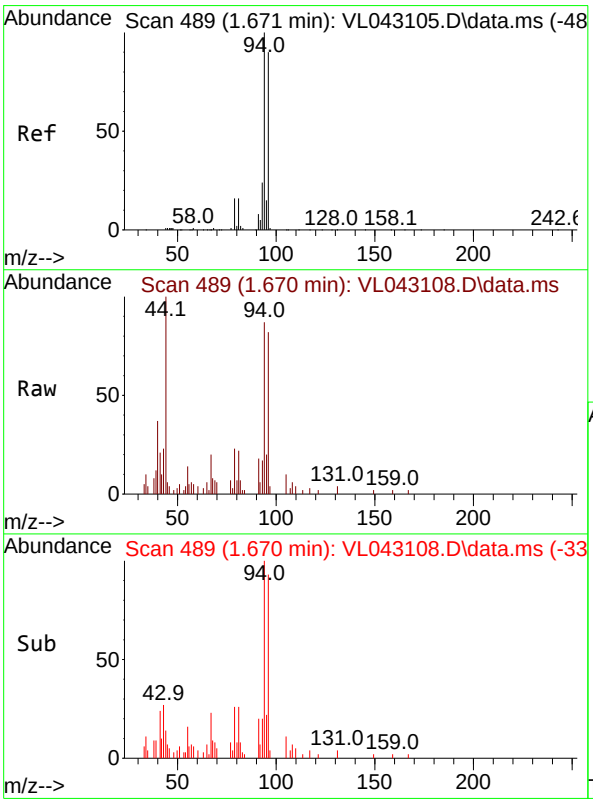
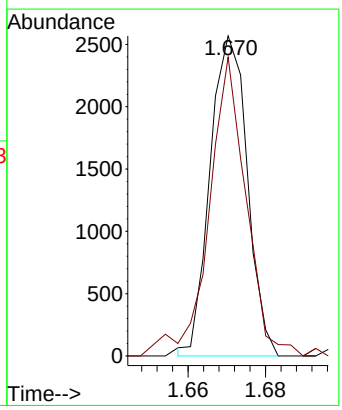
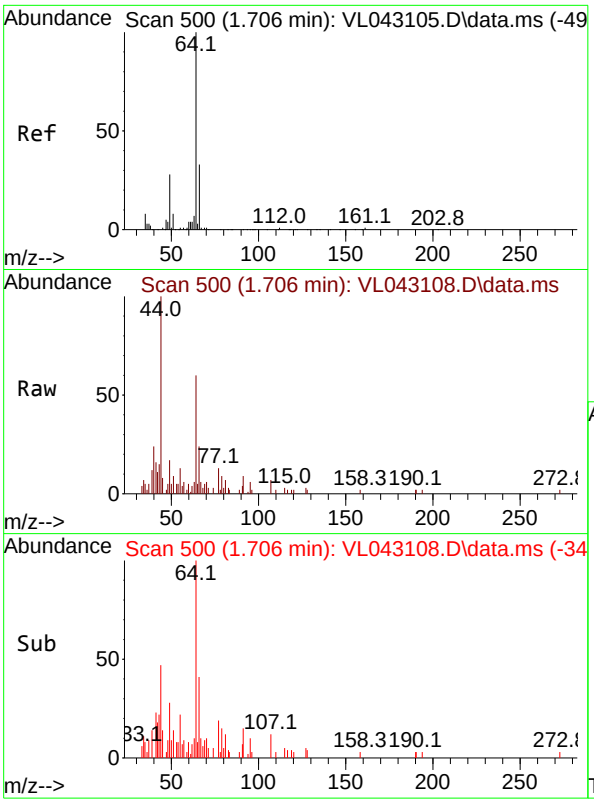


#6
Bromomethane
Concen: 0.555 ppbv
RT: 1.670 min Scan# 489
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 94 Resp: 1709

Ion	Ratio	Lower	Upper
94	100		
96	89.9	72.2	108.4





#7
Chloroethane
Concen: 0.578 ppbv
RT: 1.706 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 64 Resp: 132(

Ion	Ratio	Lower	Upper
64	100		
66	41.0	26.0	39.0#

Instrument :
MSVOA_L
ClientSampleId :
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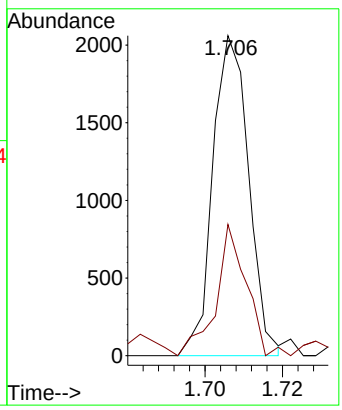
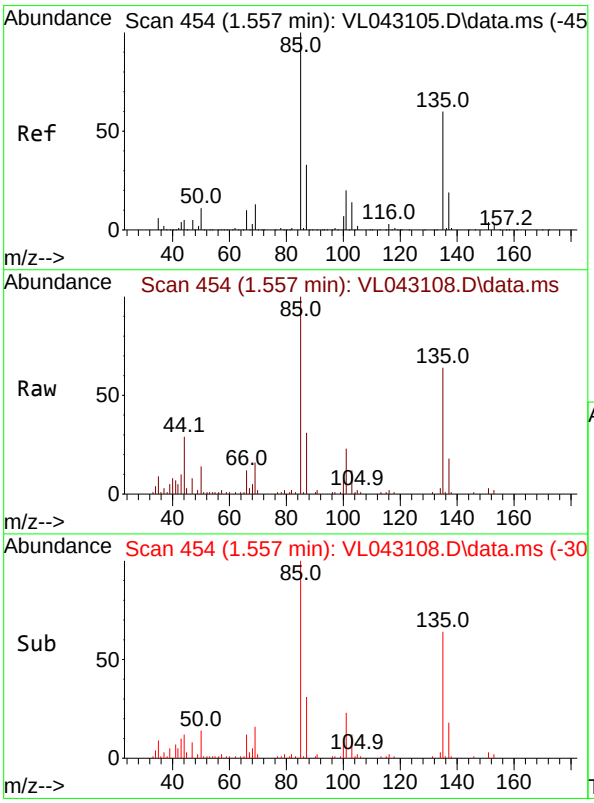
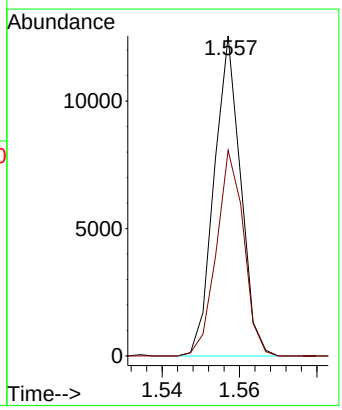


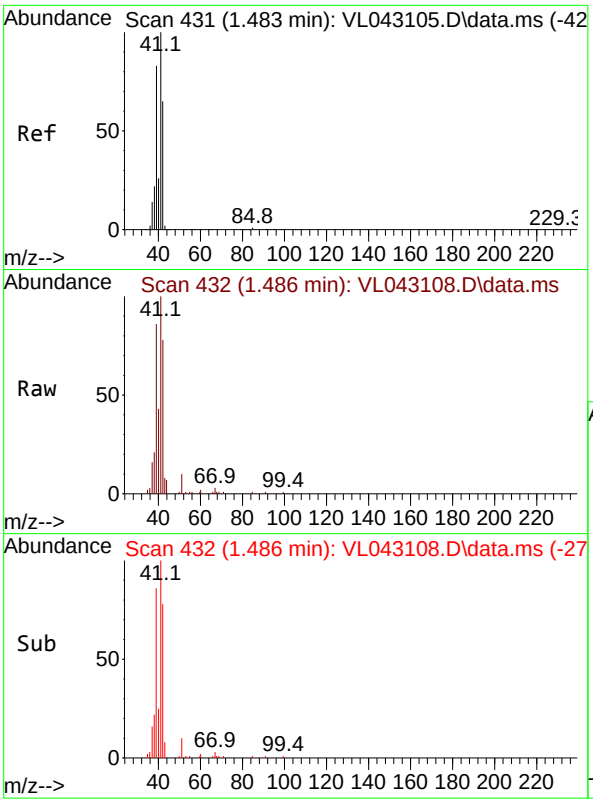


#8
Dichlorotetrafluoroethane
Concen: 0.511 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 5970

Ion	Ratio	Lower	Upper
85	100		
135	66.3	48.2	72.4

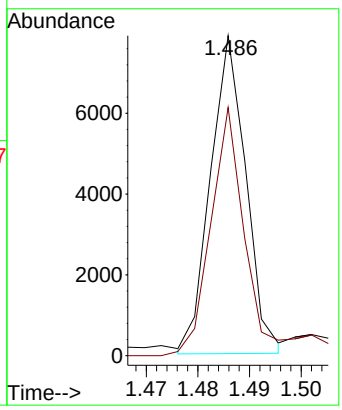




#9
Propene
Concen: 0.541 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 41 Resp: 375

Ion	Ratio	Lower	Upper
41	100		
42	75.0	55.1	82.7



Instrument :
MSVOA_L
ClientSampleId :
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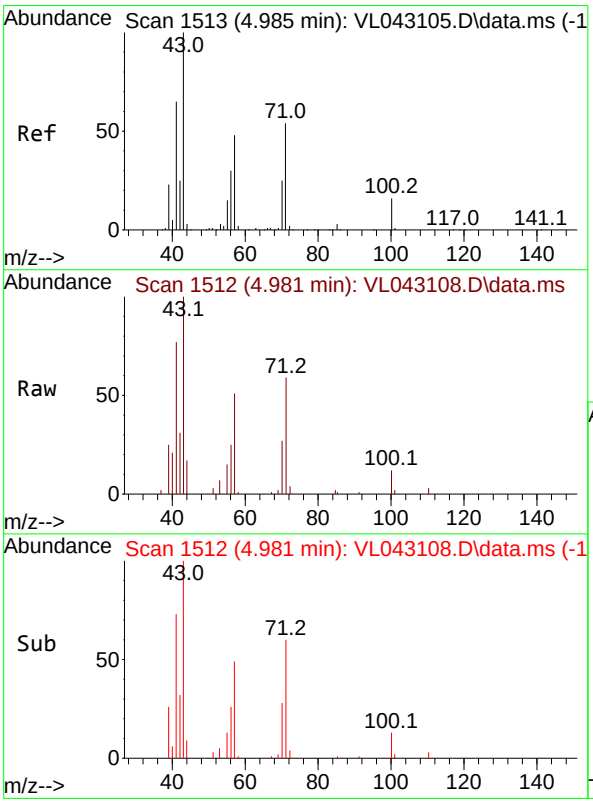
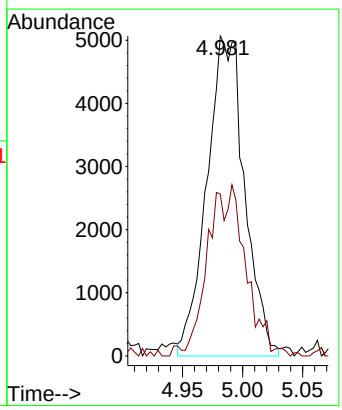
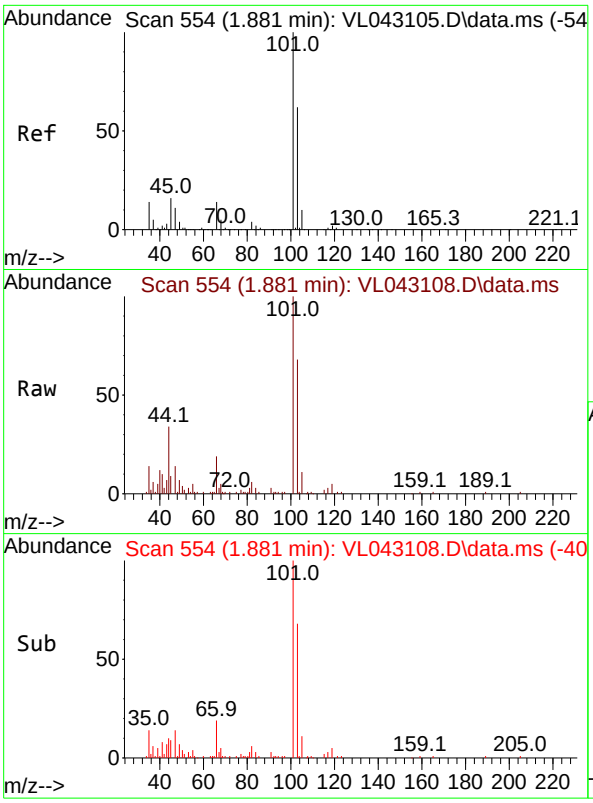


#10
Heptane
Concen: 0.558 ppbv m
RT: 4.981 min Scan# 1512
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 11097

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.8	61.2#

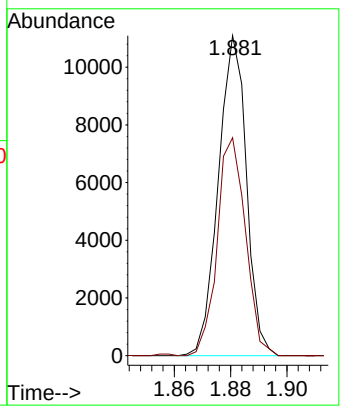




#11
Trichlorofluoromethane
Concen: 0.543 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:101 Resp: 767

Ion	Ratio	Lower	Upper
101	100		
103	68.1	49.3	73.9



Instrument :
MSVOA_L
ClientSampleId :
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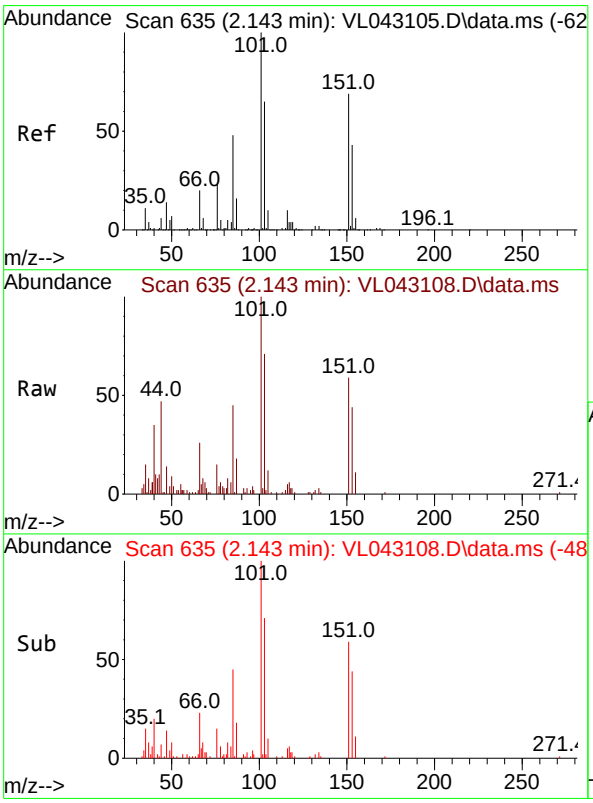
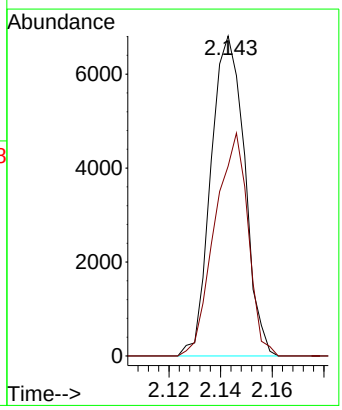
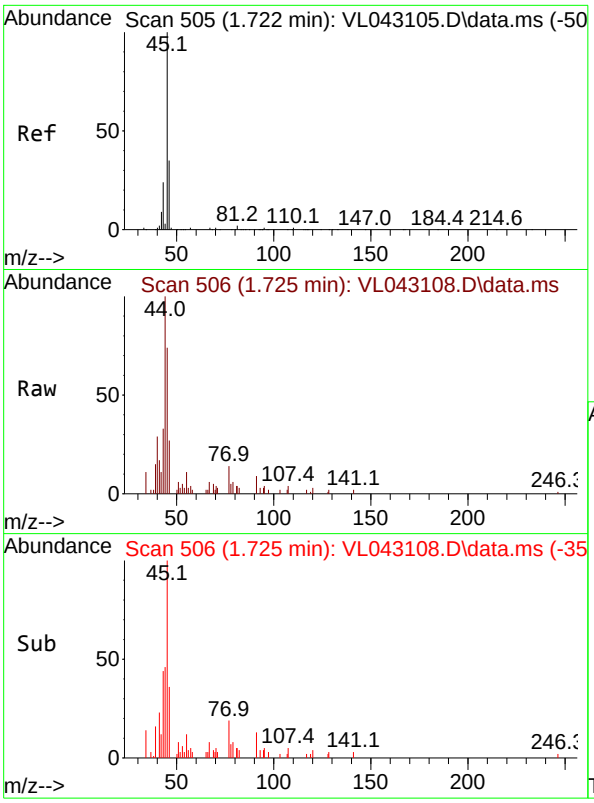


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.543 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:101 Resp: 6173

Ion	Ratio	Lower	Upper
101	100		
151	68.8	54.7	82.1

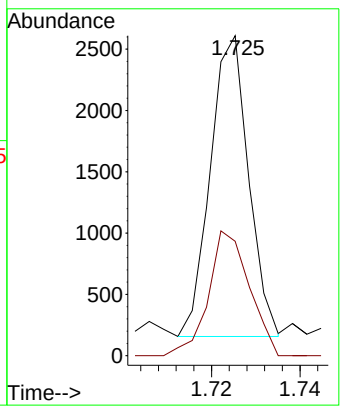




#13
Ethanol
Concen: 0.572 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 45 Resp: 146

Ion	Ratio	Lower	Upper
45	100		
46	45.1	14.7	58.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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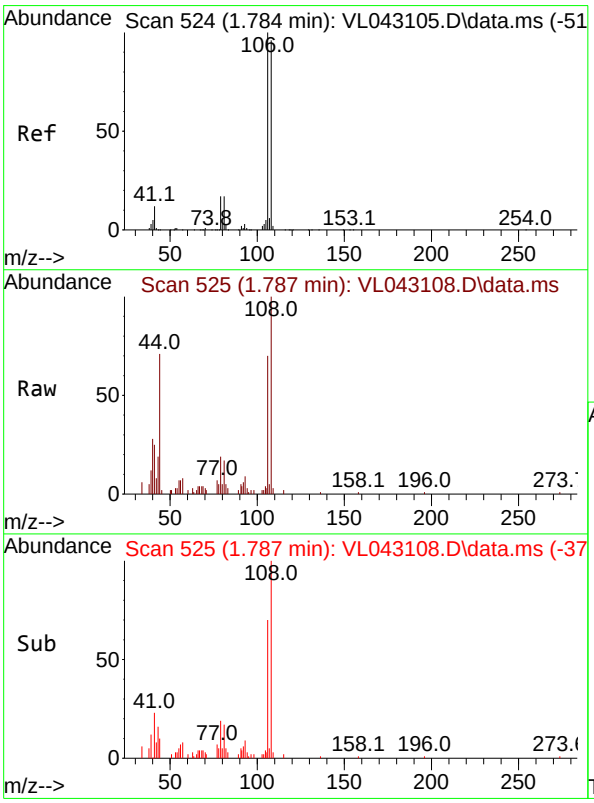
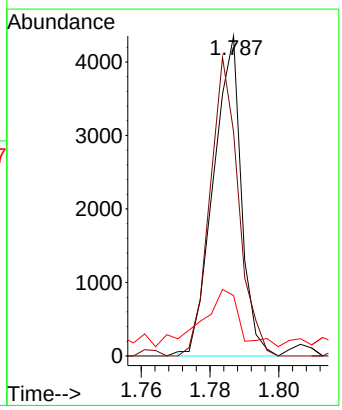
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

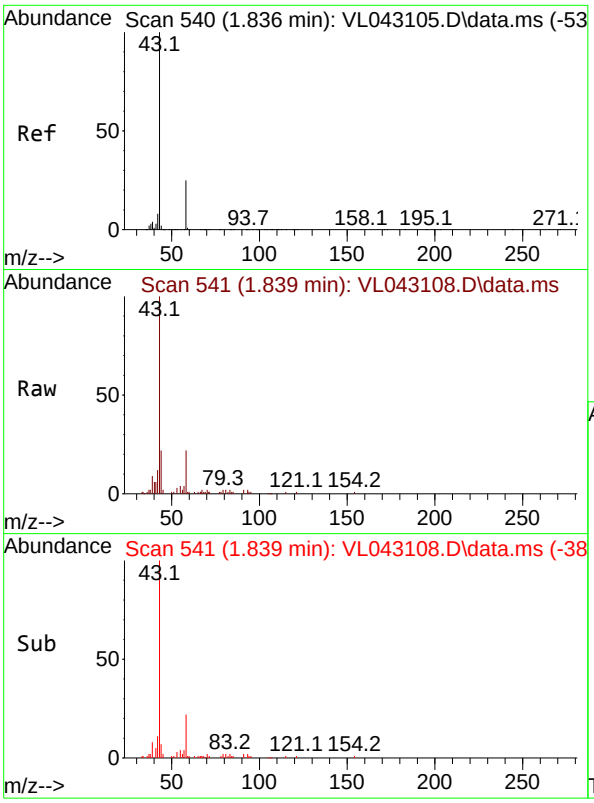


#14
Bromoethene
Concen: 0.578 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:108 Resp: 2444

Ion	Ratio	Lower	Upper
108	100		
106	98.2	84.4	126.6
79	31.2	15.3	22.9#

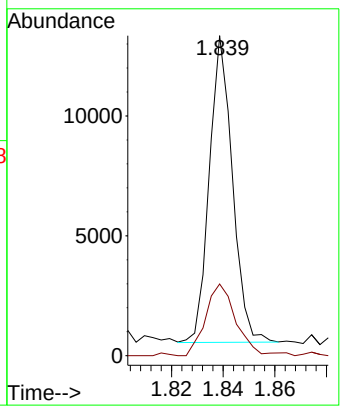




#15
Acetone
Concen: 0.576 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 793

Ion	Ratio	Lower	Upper
43	100		
58	32.0	20.8	31.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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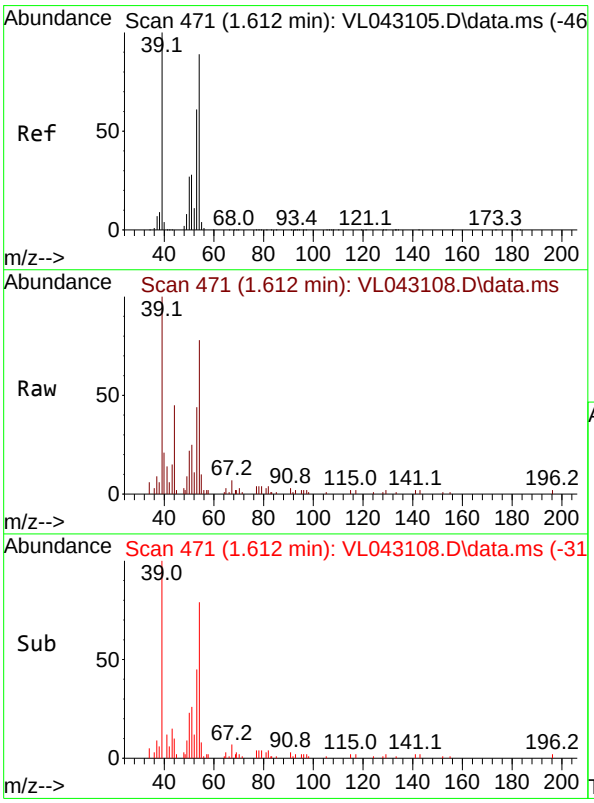
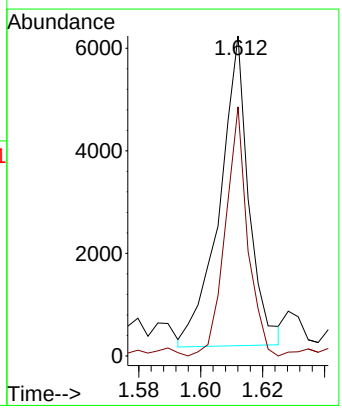
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

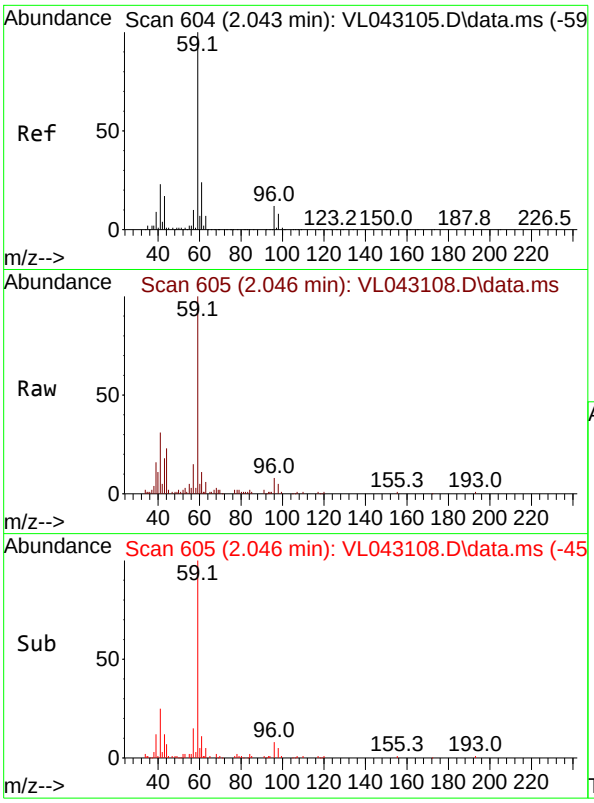


#16
1,3-Butadiene
Concen: 0.607 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 39 Resp: 3962

Ion	Ratio	Lower	Upper
39	100		
54	66.1	59.0	88.4

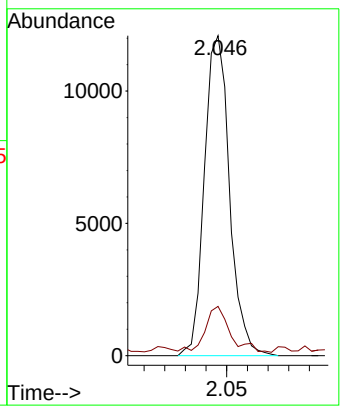




#17
tert-Butyl alcohol
Concen: 0.543 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 59 Resp: 1021

Ion	Ratio	Lower	Upper
59	100		
57	14.8	8.2	12.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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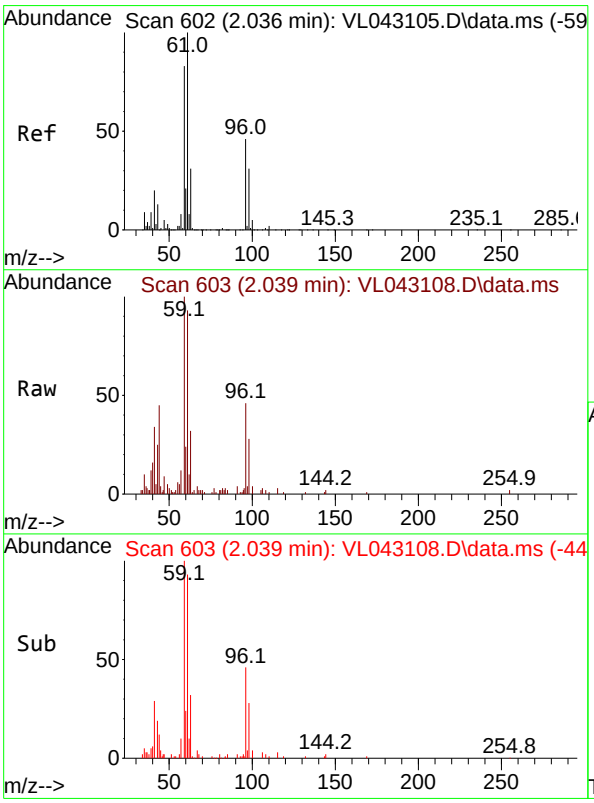
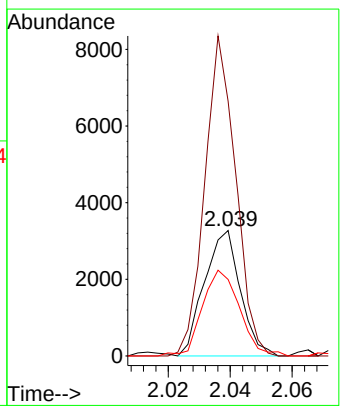
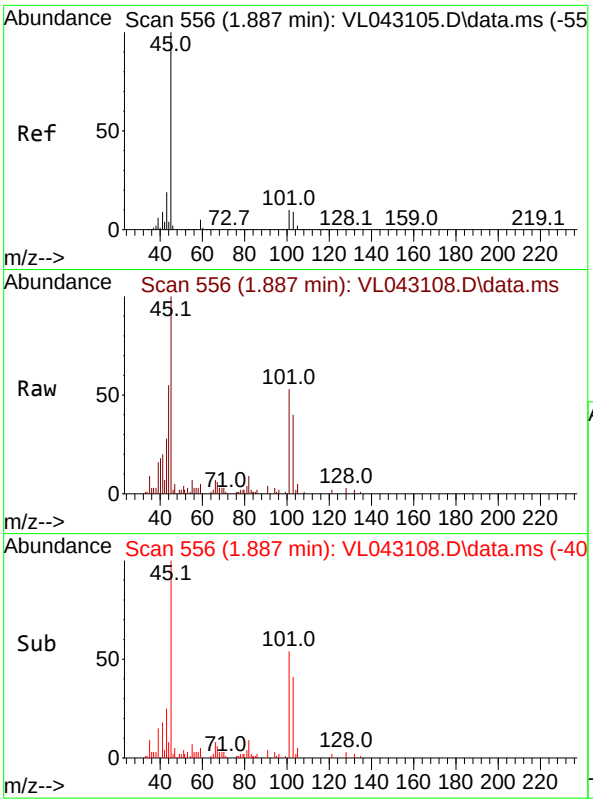


#18
1,1-Dichloroethene
Concen: 0.531 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 96 Resp: 2636

Ion	Ratio	Lower	Upper
96	100		
61	203.1	173.4	260.0
98	59.2	53.2	79.8

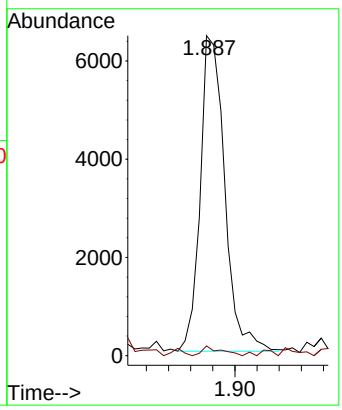




#19
Isopropyl Alcohol
Concen: 0.578 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 45 Resp: 493

Ion	Ratio	Lower	Upper
45	100		
58	4.1	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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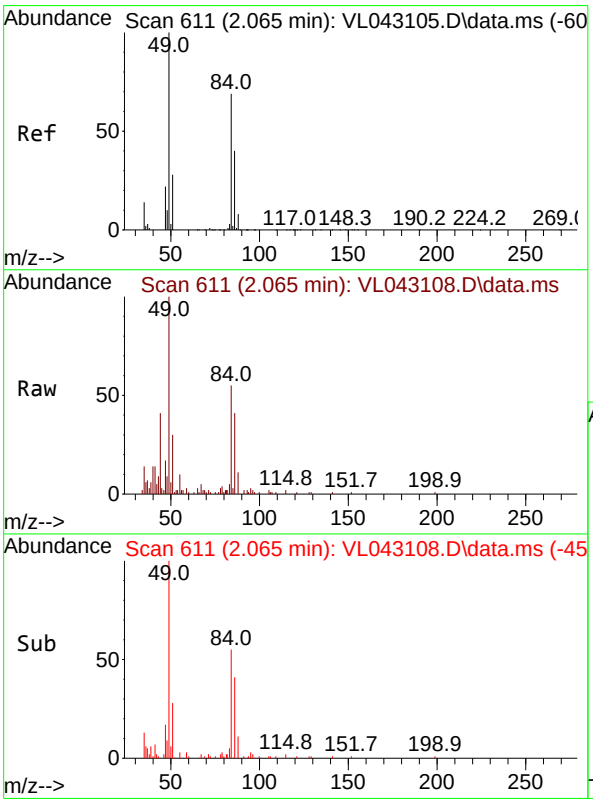
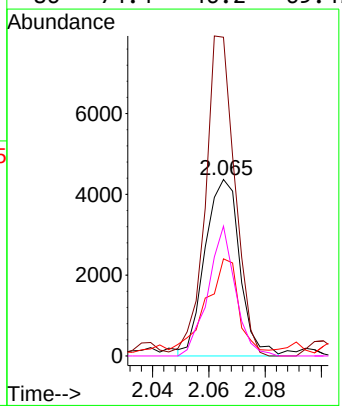
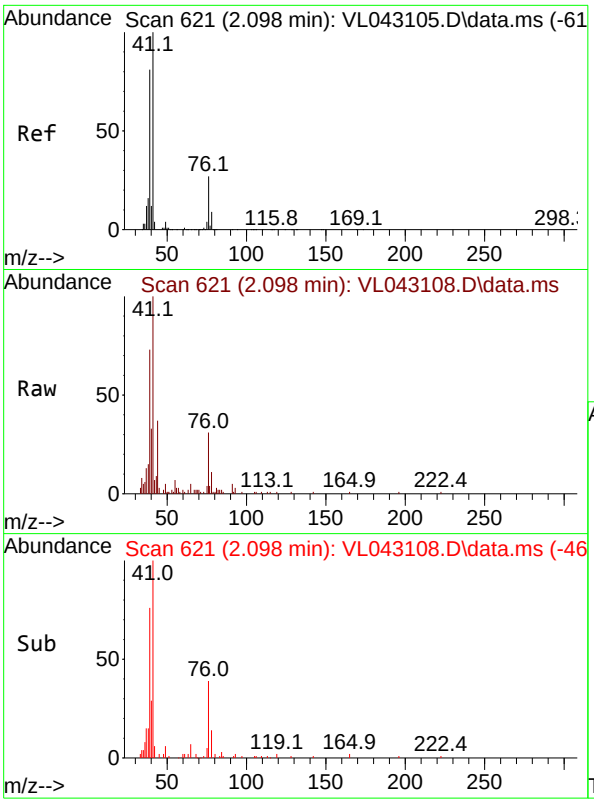


#20
Methylene Chloride
Concen: 0.693 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 84 Resp: 3750

Ion	Ratio	Lower	Upper
84	100		
49	182.8	116.6	175.0#
51	51.9	34.8	52.2
86	74.4	46.2	69.4#

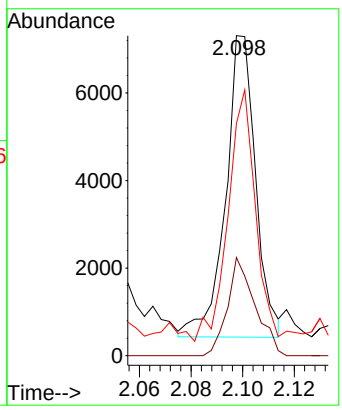




#21
Allyl Chloride
Concen: 0.551 ppbv
RT: 2.098 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 41 Resp: 557

Ion	Ratio	Lower	Upper
41	100		
76	30.0	21.5	32.3
39	75.1	60.8	91.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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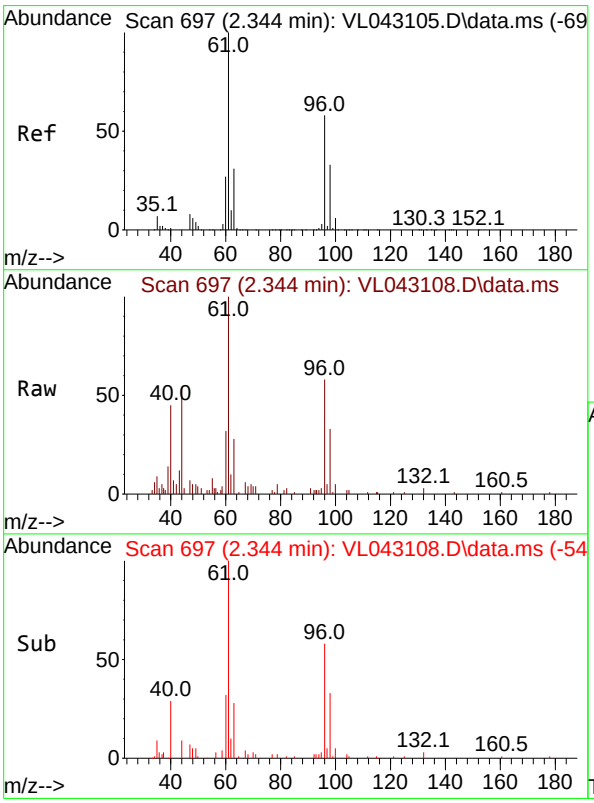
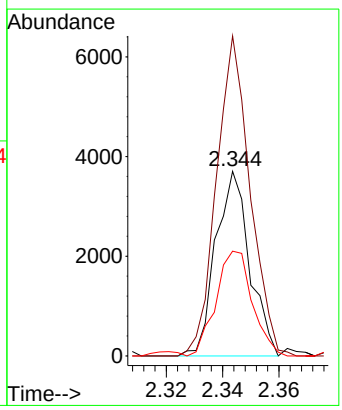
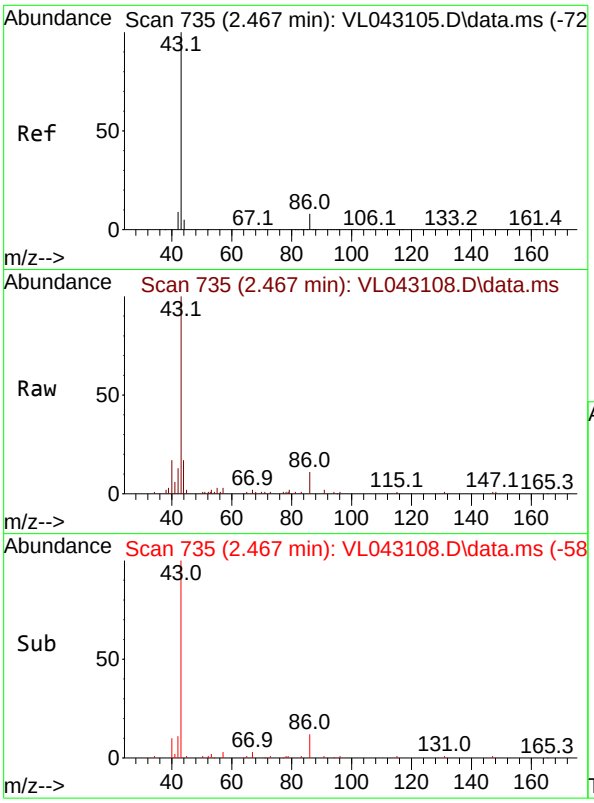


#22
trans-1,2-Dichloroethene
Concen: 0.522 ppbv
RT: 2.344 min Scan# 697
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 96 Resp: 3093

Ion	Ratio	Lower	Upper
96	100		
61	173.3	137.0	205.6
98	55.0	45.5	68.3

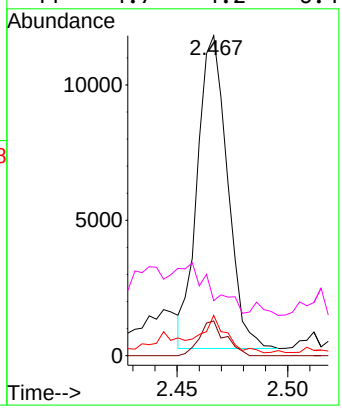




#23
Vinyl Acetate
Concen: 0.544 ppbv
RT: 2.467 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 1091

Ion	Ratio	Lower	Upper
43	100		
86	11.1	6.2	9.2
42	9.0	7.6	11.4
44	4.7	4.2	6.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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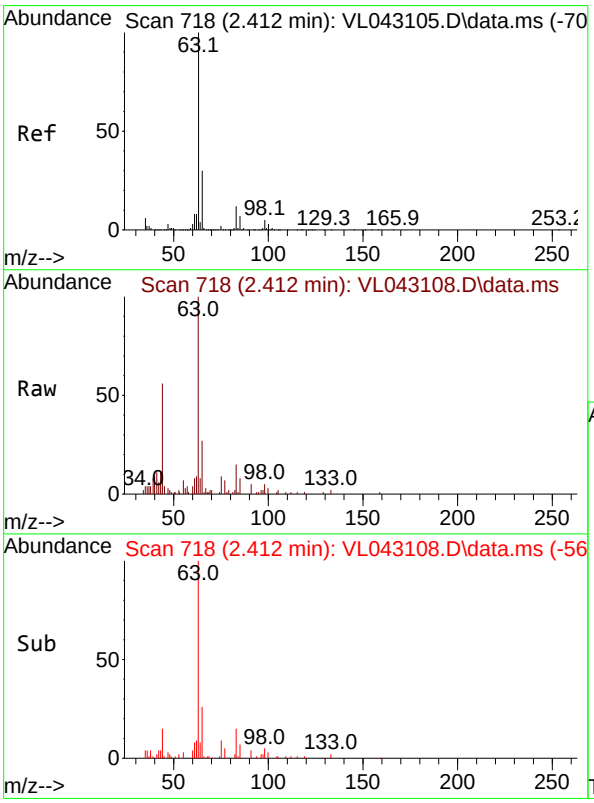
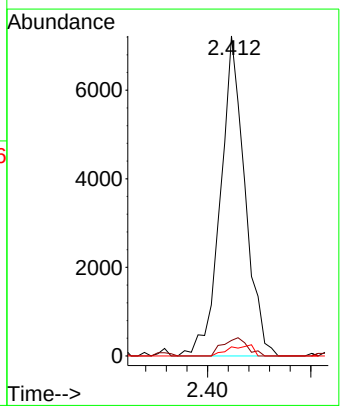
Supervised By :Mahesh Dadoda 10/16/2025

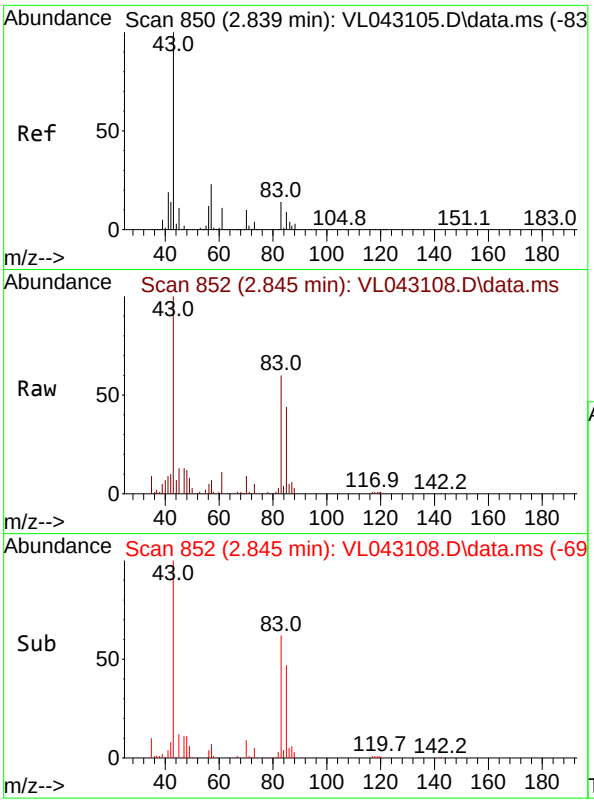


#24
1,1-Dichloroethane
Concen: 0.519 ppbv
RT: 2.412 min Scan# 718
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 63 Resp: 5942

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.6	7.8
100	2.8	1.5	4.4

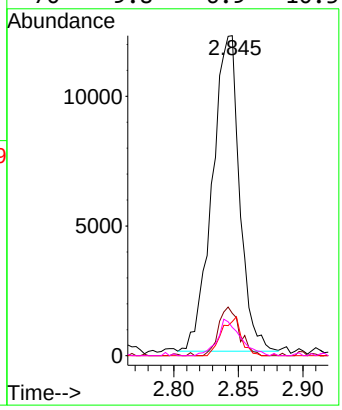




#25
Ethyl Acetate
Concen: 0.527 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 1791

Ion	Ratio	Lower	Upper
43	100		
45	12.3	7.8	11.8
61	8.8	7.0	10.6
70	9.8	6.9	10.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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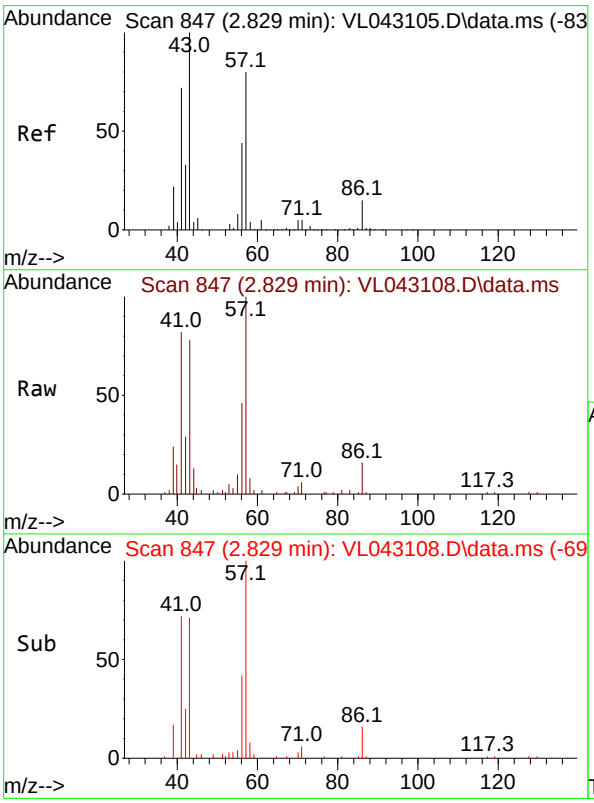
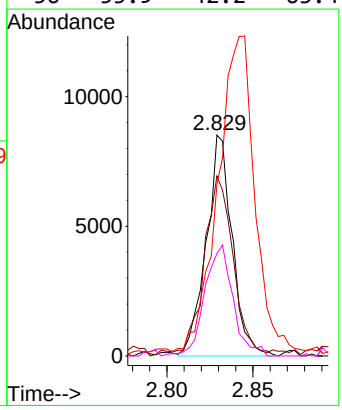
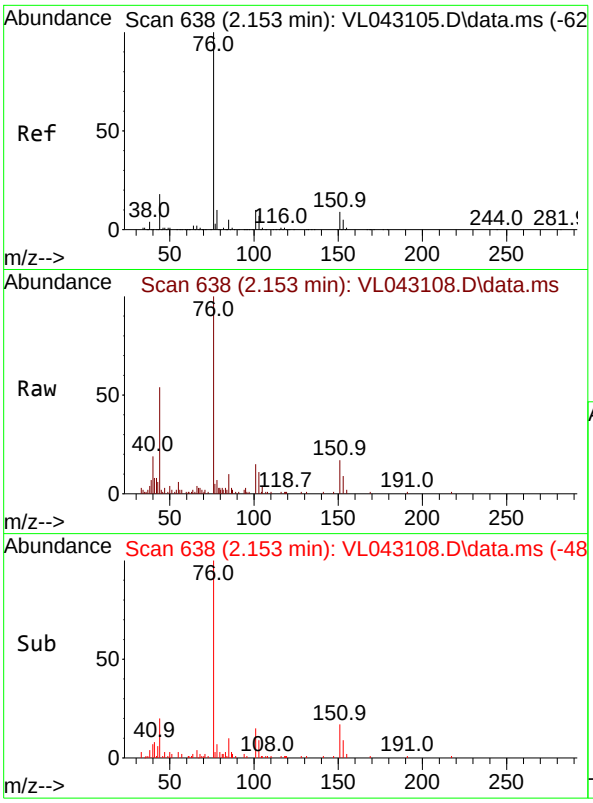


#26
Hexane
Concen: 0.569 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 57 Resp: 8908

Ion	Ratio	Lower	Upper
57	100		
41	90.3	71.4	107.0
43	211.8	178.5	267.7
56	55.9	42.2	63.4





#27
Carbon Disulfide
Concen: 0.504 ppbv
RT: 2.153 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 76 Resp: 723

Ion	Ratio	Lower	Upper
76	100		
44	120.9	16.7	25.1#
78	13.9	9.3	13.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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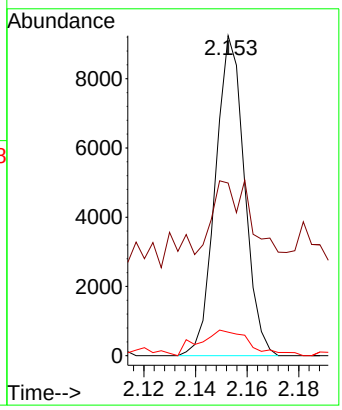
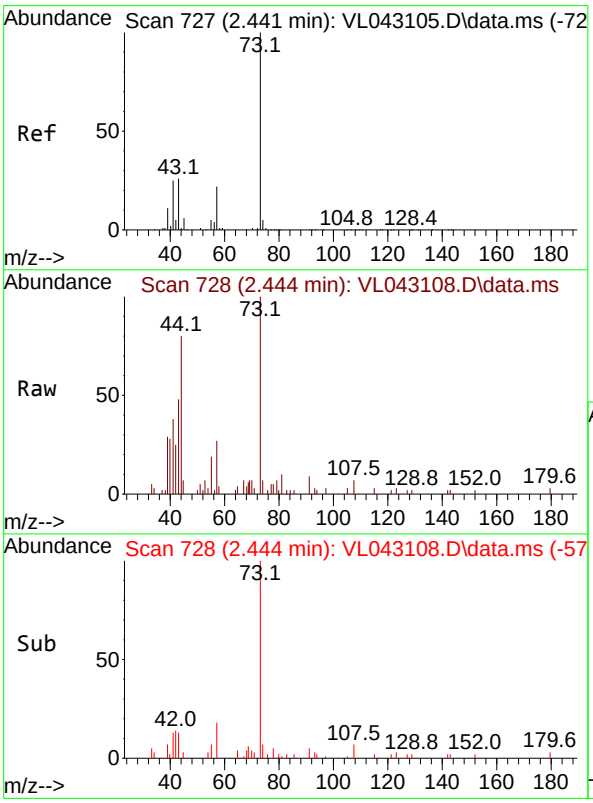
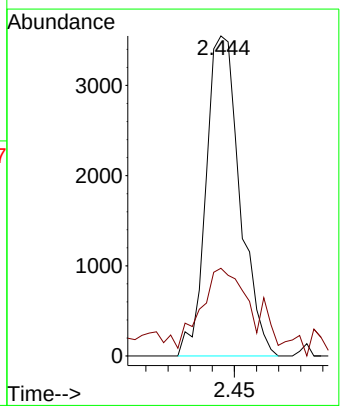


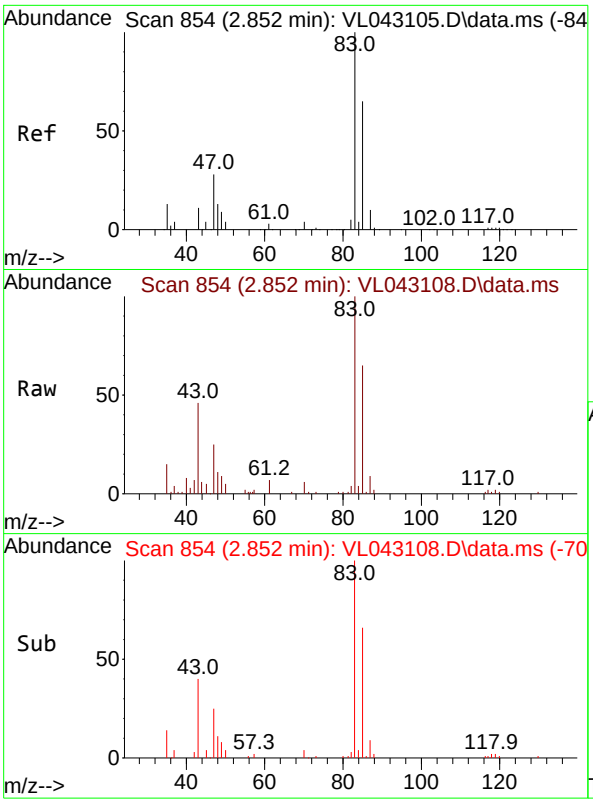


#28
Methyl tert-Butyl Ether
Concen: 0.529 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 73 Resp: 3770

Ion	Ratio	Lower	Upper
73	100		
57	52.7	20.5	30.7#





#29
Chloroform
Concen: 0.546 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 83 Resp: 1238

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.8	77.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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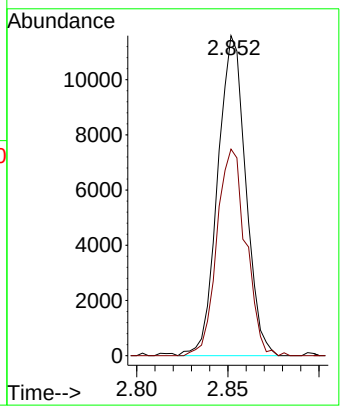
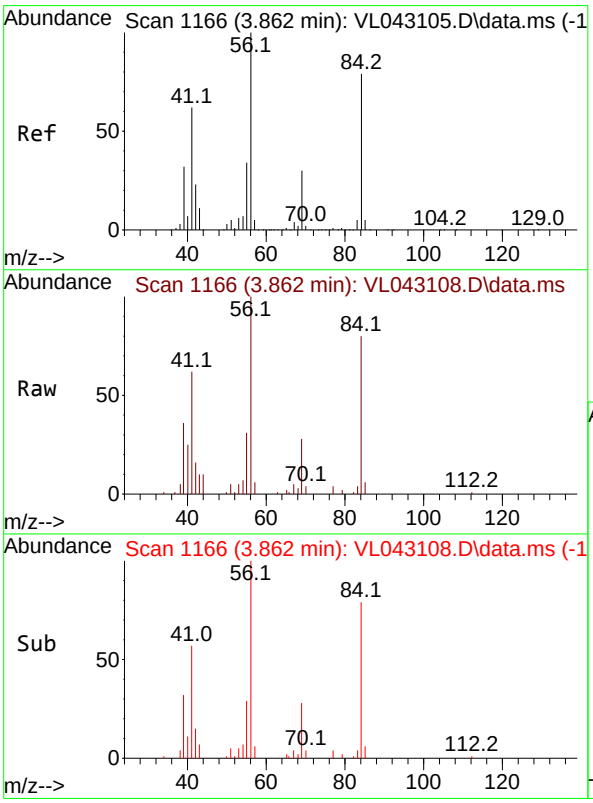
Supervised By :Mahesh Dadoda 10/16/2025

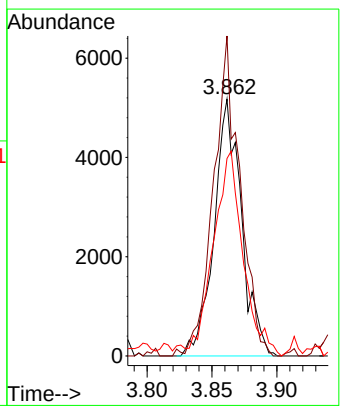


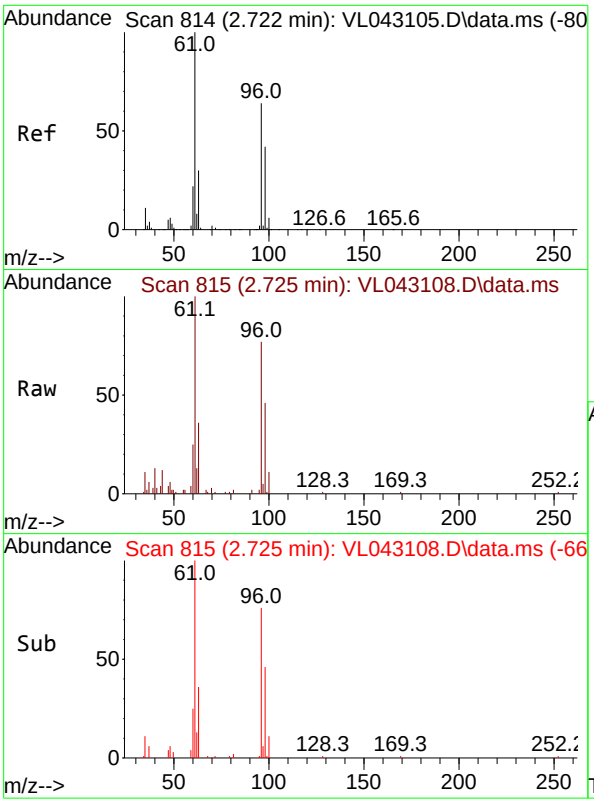


#30
Cyclohexane
Concen: 0.556 ppbv m
RT: 3.862 min Scan# 1166
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 84 Resp: 7586

Ion	Ratio	Lower	Upper
84	100		
56	121.2	100.9	151.3
41	91.7	63.8	95.6

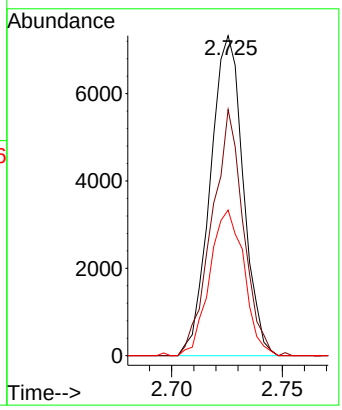




#31
cis-1,2-Dichloroethene
Concen: 0.507 ppbv
RT: 2.725 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 61 Resp: 757

Ion	Ratio	Lower	Upper
61	100		
96	76.9	51.0	76.6
98	45.5	33.5	50.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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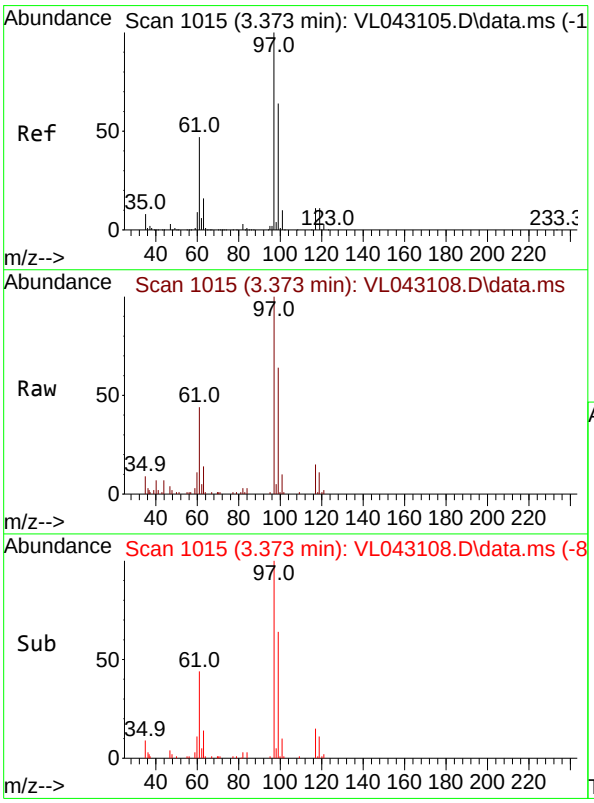
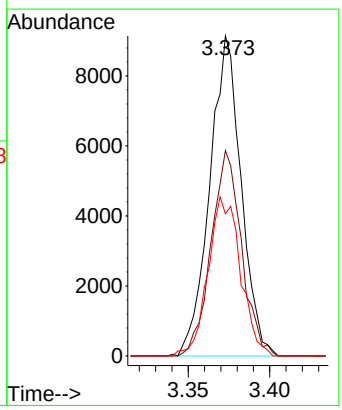
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

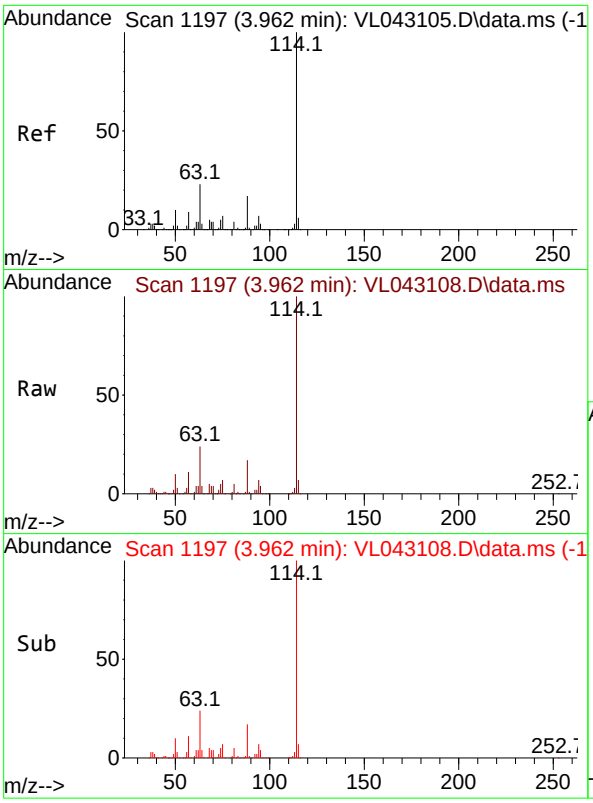


#32
1,1,1-Trichloroethane
Concen: 0.518 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 97 Resp: 12234

Ion	Ratio	Lower	Upper
97	100		
99	62.0	51.3	76.9
61	51.2	38.4	57.6

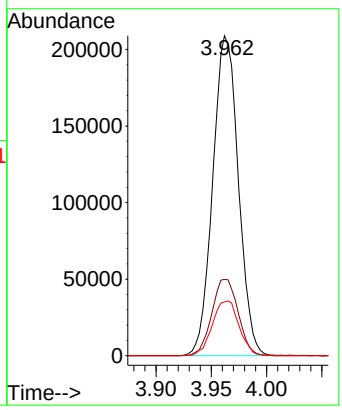




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:114 Resp: 33618

Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.3	28.9
88	17.9	13.9	20.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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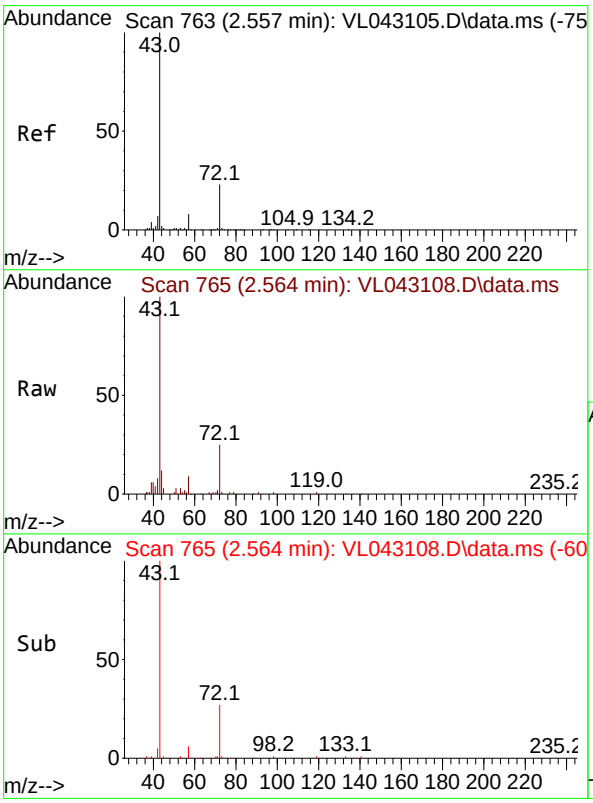
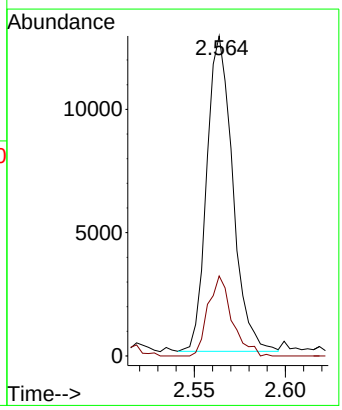
Supervised By :Mahesh Dadoda 10/16/2025

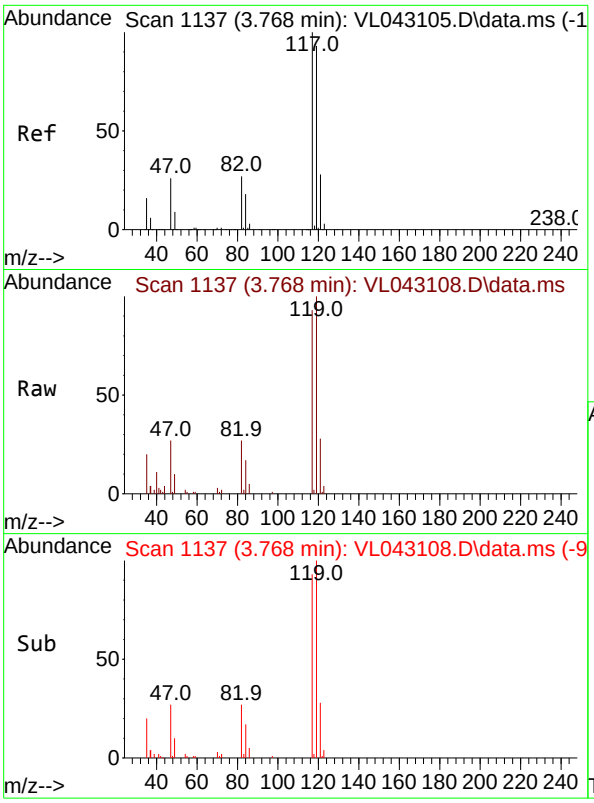


#34
2-Butanone
Concen: 0.557 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 12659

Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.4	27.6

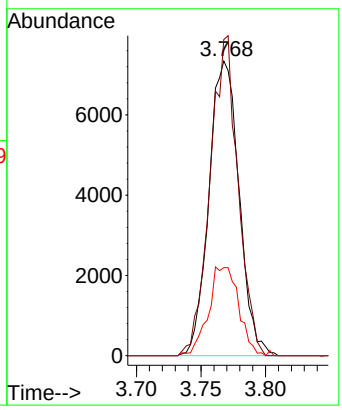




#35
Carbon Tetrachloride
Concen: 0.494 ppbv
RT: 3.768 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:117 Resp: 1193

Ion	Ratio	Lower	Upper
117	100		
119	107.3	74.1	111.1
121	29.9	22.2	33.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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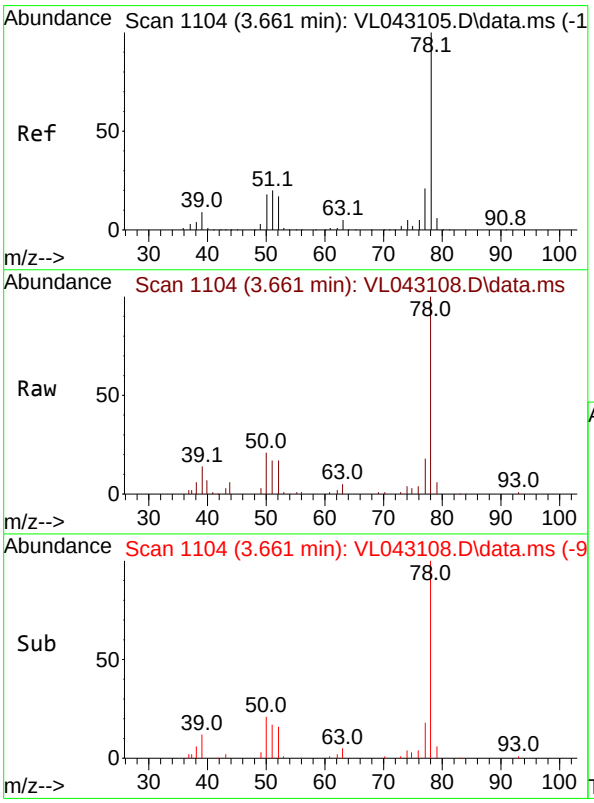
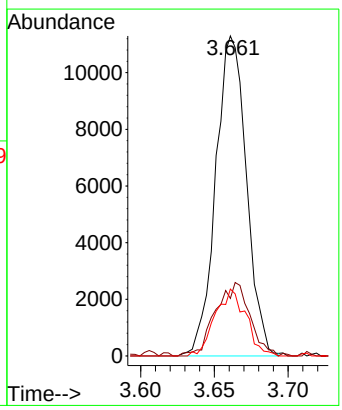
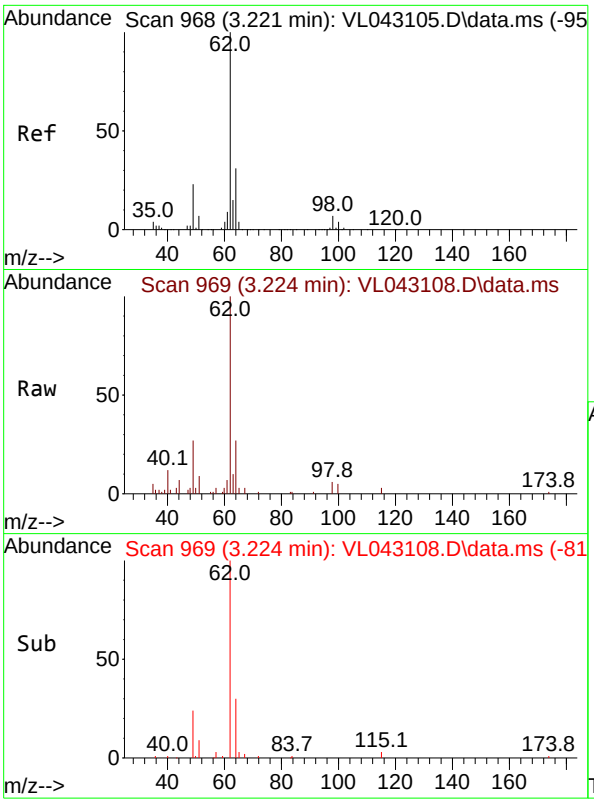


#36
Benzene
Concen: 0.517 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 78 Resp: 16376

Ion	Ratio	Lower	Upper
78	100		
77	18.0	17.0	25.6
50	20.9	14.6	22.0

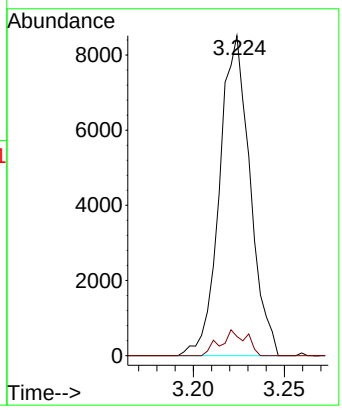




#37
1,2-Dichloroethane
Concen: 0.543 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 62 Resp: 990

Ion	Ratio	Lower	Upper
62	100		
98	6.8	5.8	8.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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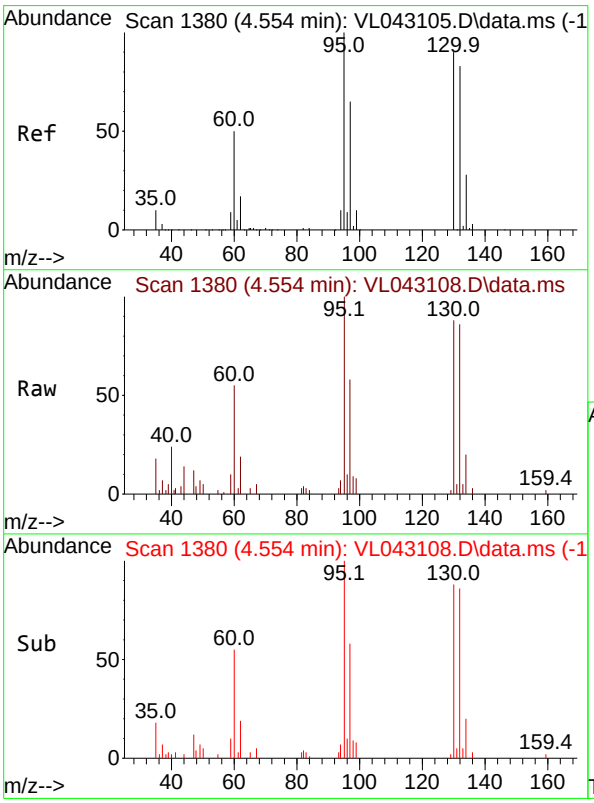
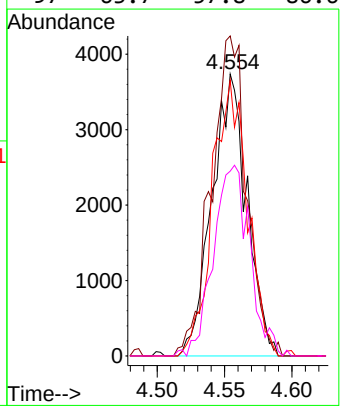
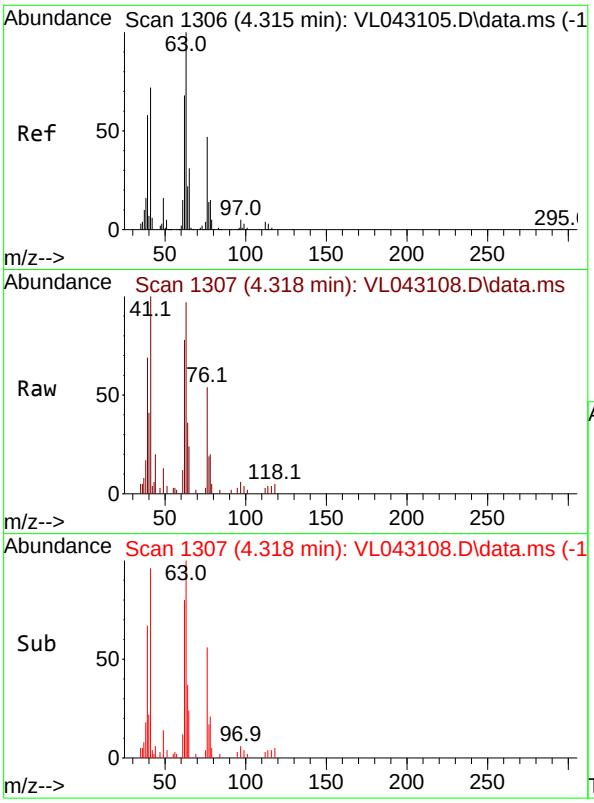


#38
Trichloroethene
Concen: 0.511 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:130 Resp: 6745

Ion	Ratio	Lower	Upper
130	100		
95	110.7	88.6	133.0
132	97.8	73.4	110.0
97	63.7	57.8	86.6

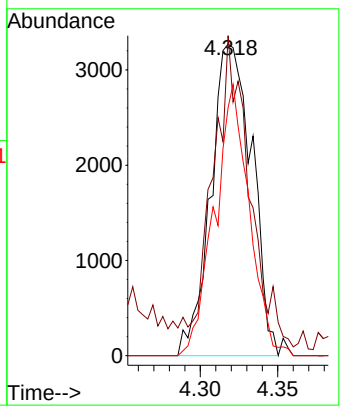




#39
1,2-Dichloropropane
Concen: 0.521 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 63 Resp: 603

Ion	Ratio	Lower	Upper
63	100		
41	93.9	58.0	87.0#
62	79.6	54.7	82.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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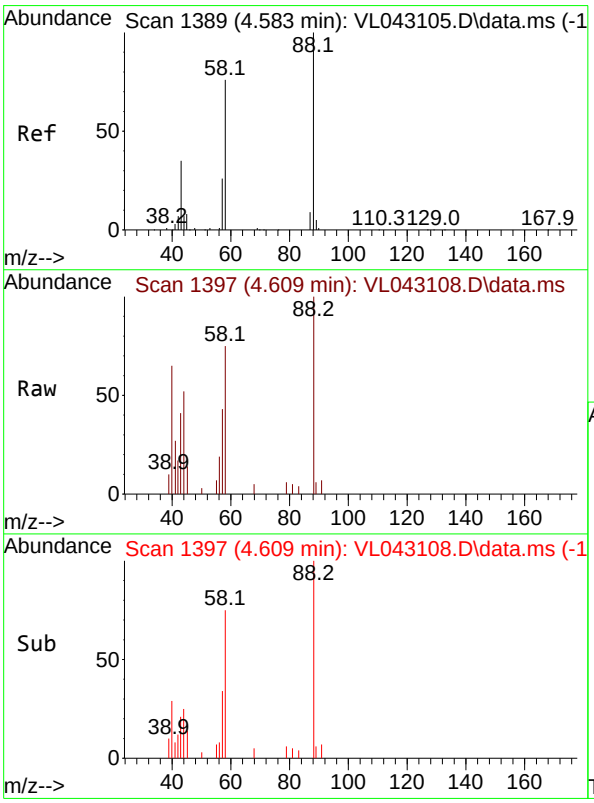
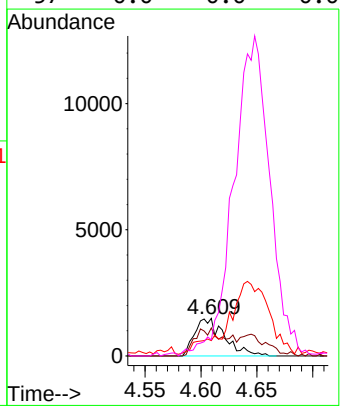
Supervised By :Mahesh Dadoda 10/16/2025

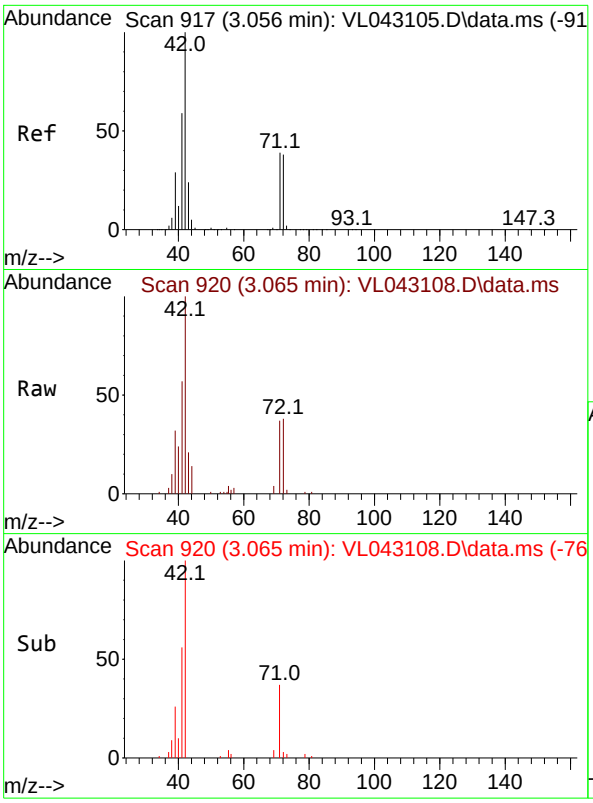


#40
1,4-Dioxane
Concen: 0.539 ppbv m
RT: 4.609 min Scan# 1397
Delta R.T. 0.026 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 88 Resp: 2794

Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	11.4	24.0	36.0#
57	0.0	0.0	0.0

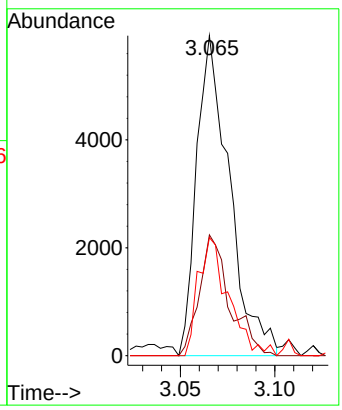




#41
Tetrahydrofuran
Concen: 0.565 ppbv m
RT: 3.065 min Scan# 9
Delta R.T. 0.009 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 42 Resp: 717

Ion	Ratio	Lower	Upper
42	100		
72	34.8	31.3	46.9
71	35.5	30.4	45.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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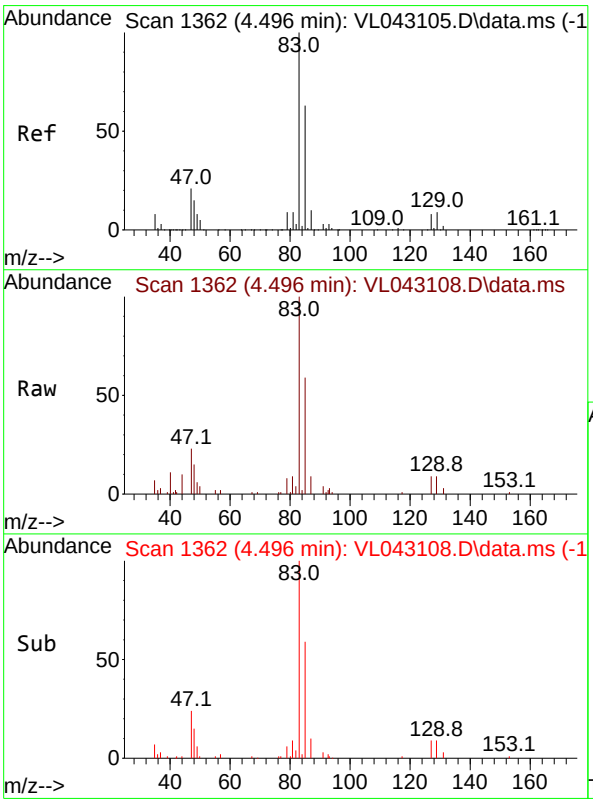
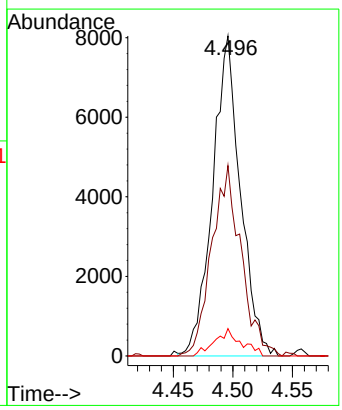
Supervised By :Mahesh Dadoda 10/16/2025

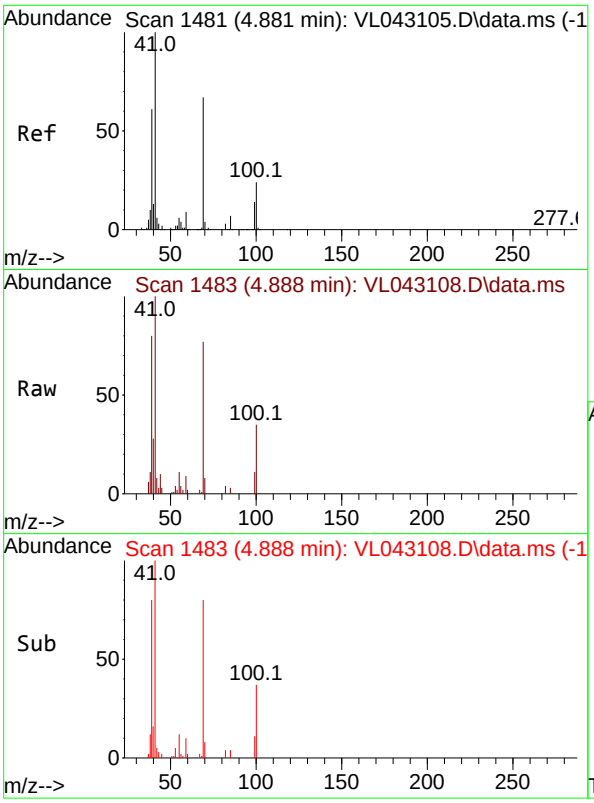


#42
Bromodichloromethane
Concen: 0.519 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 83 Resp: 13094

Ion	Ratio	Lower	Upper
83	100		
85	59.5	50.6	75.8
127	8.5	6.3	9.5

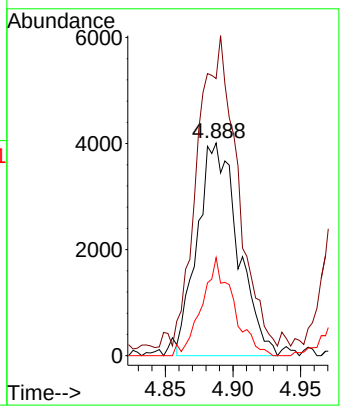




#43
Methyl Methacrylate
Concen: 0.521 ppbv m
RT: 4.888 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 69 Resp: 841

Ion	Ratio	Lower	Upper
69	100		
41	0.0	120.5	180.7#
100	35.6	29.0	43.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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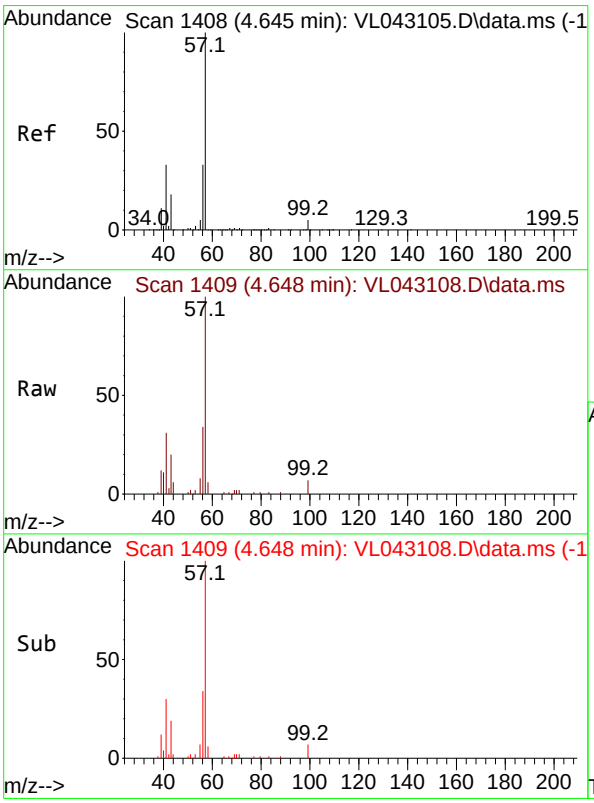
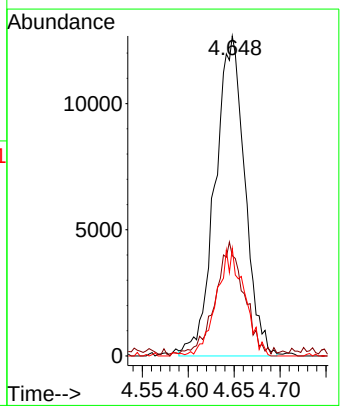
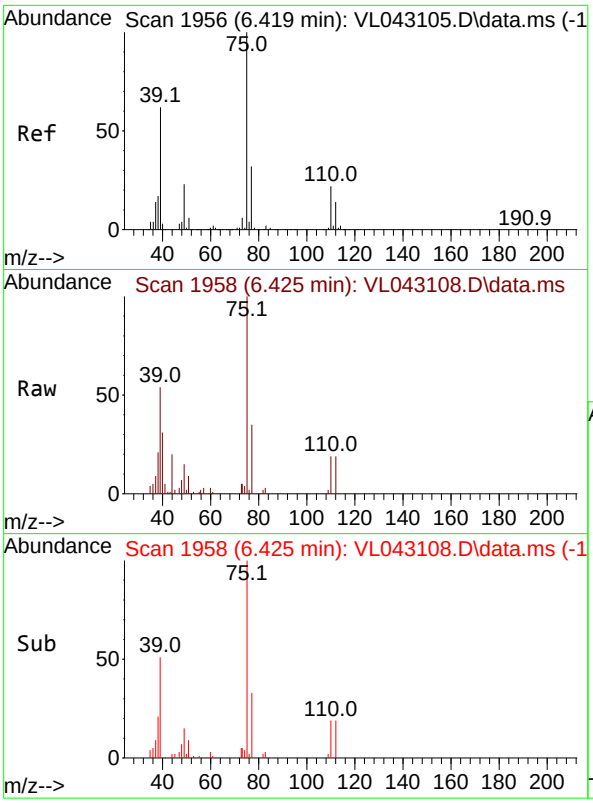


#44
2,2,4-Trimethylpentane
Concen: 0.538 ppbv m
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 57 Resp: 28494

Ion	Ratio	Lower	Upper
57	100		
41	32.8	26.3	39.5
56	32.0	25.9	38.9

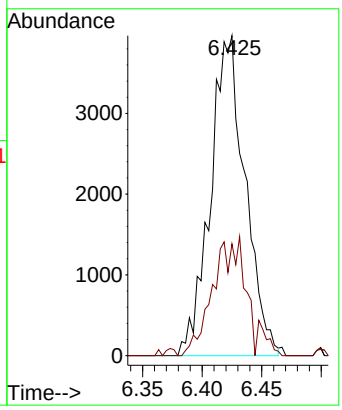




#45
t-1,3-Dichloropropene
Concen: 0.498 ppbv
RT: 6.425 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 75 Resp: 803

Ion	Ratio	Lower	Upper
75	100		
77	34.9	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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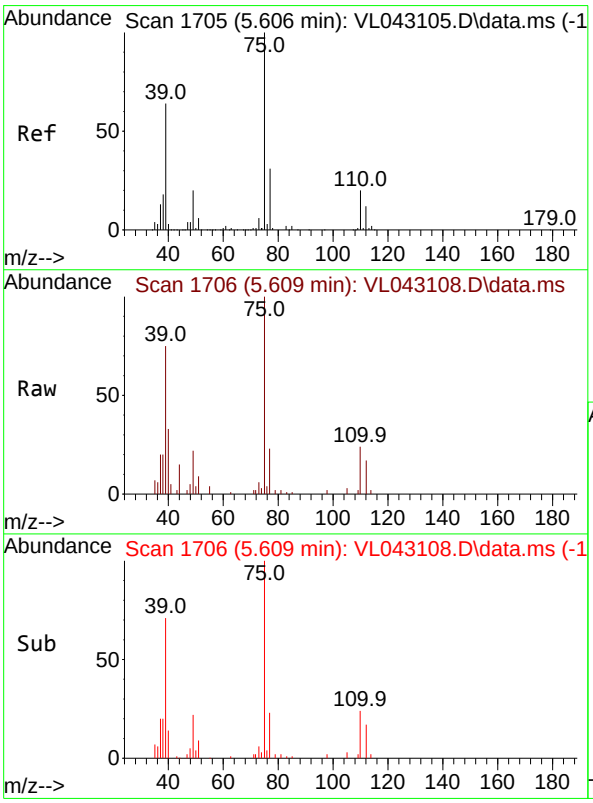
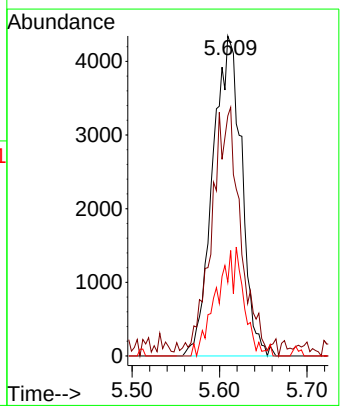
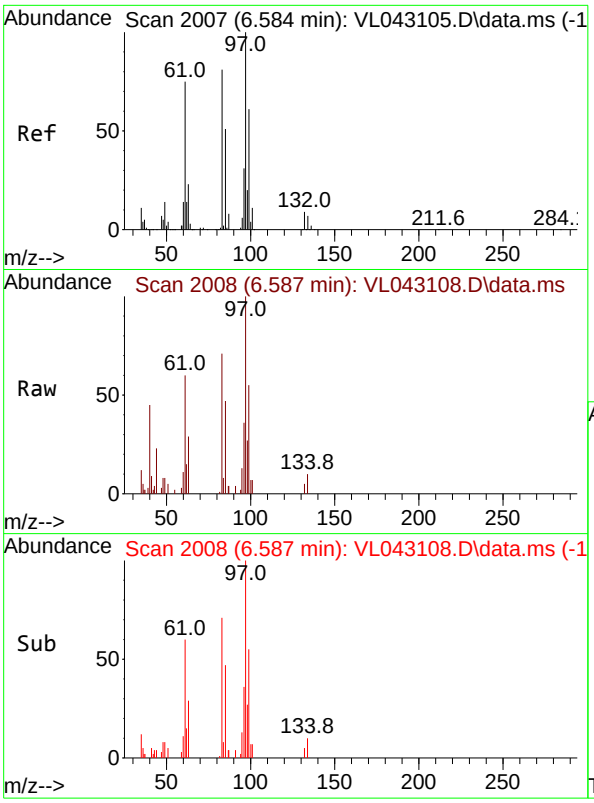


#46
cis-1,3-Dichloropropene
Concen: 0.518 ppbv m
RT: 5.609 min Scan# 1706
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 75 Resp: 9973

Ion	Ratio	Lower	Upper
75	100		
39	75.0	51.0	76.6
77	23.1	25.0	37.4#

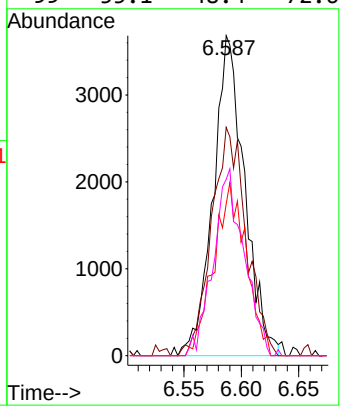




#47
1,1,2-Trichloroethane
Concen: 0.560 ppbv
RT: 6.587 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 97 Resp: 699

Ion	Ratio	Lower	Upper
97	100		
83	71.4	64.6	96.8
85	47.5	40.6	60.8
99	55.1	48.4	72.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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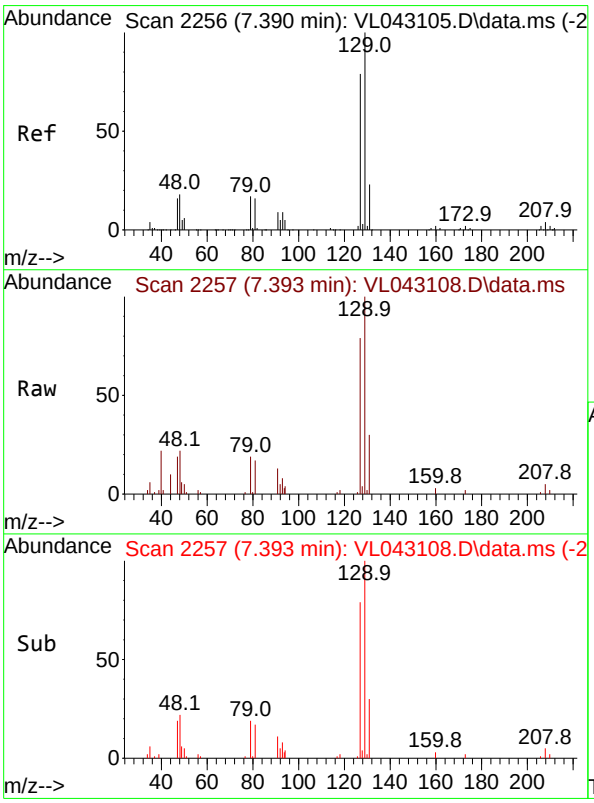
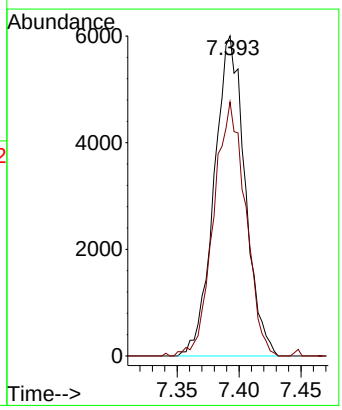
Supervised By :Mahesh Dadoda 10/16/2025

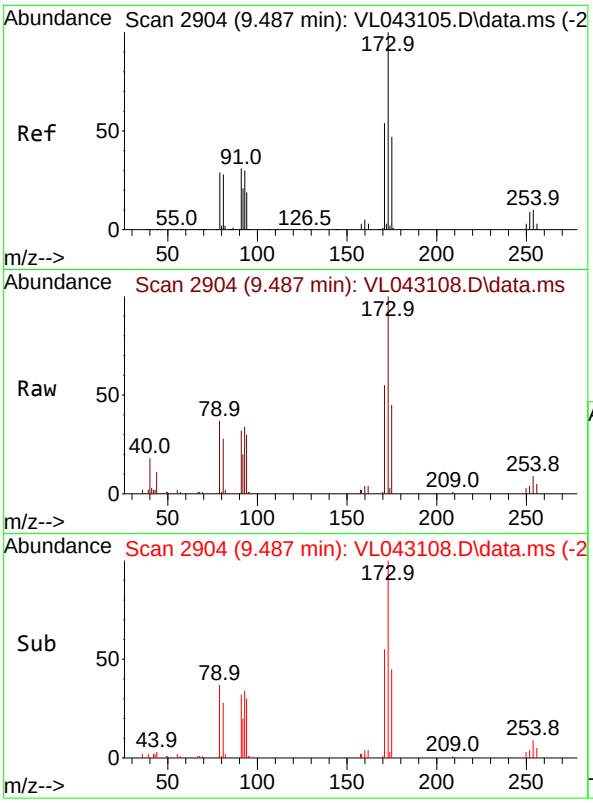


#48
Dibromochloromethane
Concen: 0.498 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:129 Resp: 10413

Ion	Ratio	Lower	Upper
129	100		
127	82.2	39.3	117.9

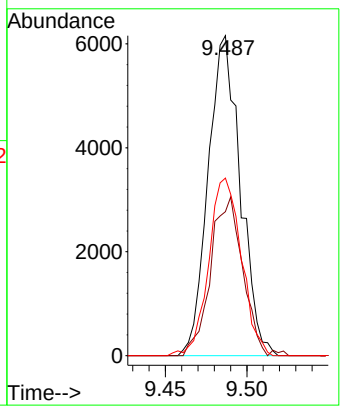




#49
Bromoform
Concen: 0.498 ppbv
RT: 9.487 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:173 Resp: 845

Ion	Ratio	Lower	Upper
173	100		
175	49.6	38.8	58.2
171	56.3	41.7	62.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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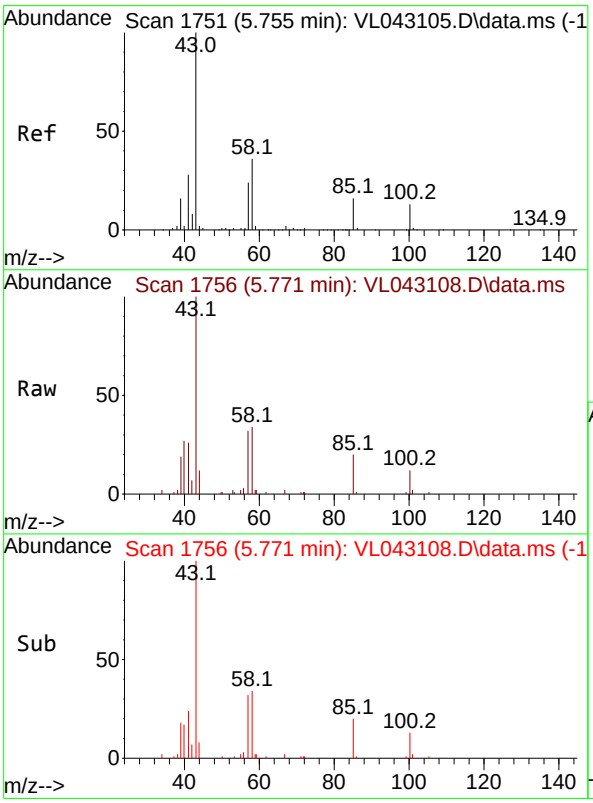
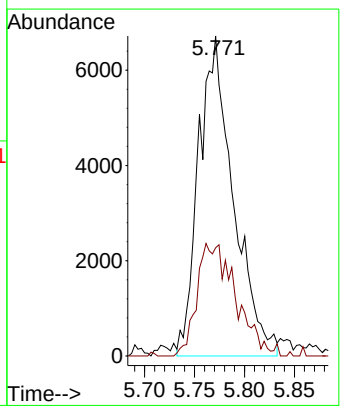
Supervised By :Mahesh Dadoda 10/16/2025

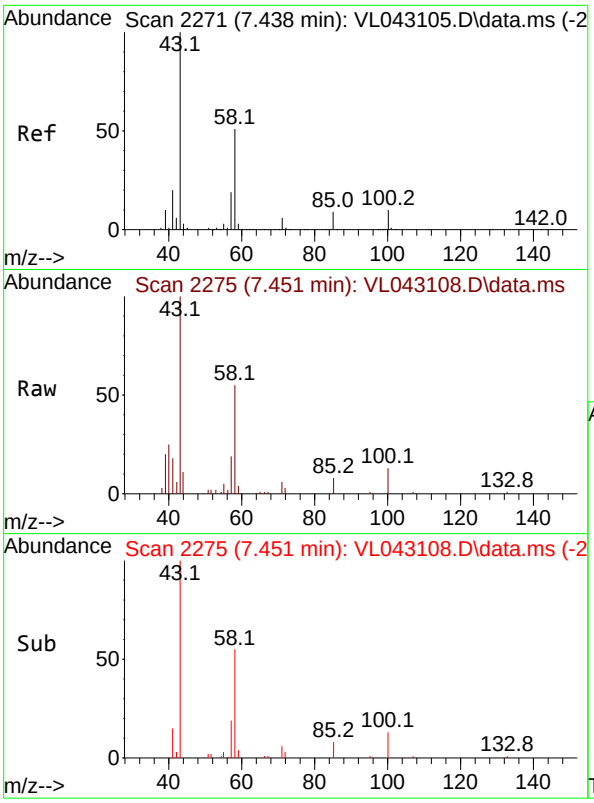


#50
4-Methyl-2-Pentanone
Concen: 0.520 ppbv m
RT: 5.771 min Scan# 1756
Delta R.T. 0.016 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 16289

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7#

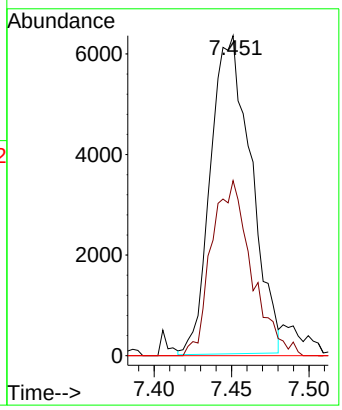




#51
2-Hexanone
Concen: 0.491 ppbv
RT: 7.451 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 1148

Ion	Ratio	Lower	Upper
43	100		
58	54.7	40.4	60.6
98	0.0	0.1	0.1#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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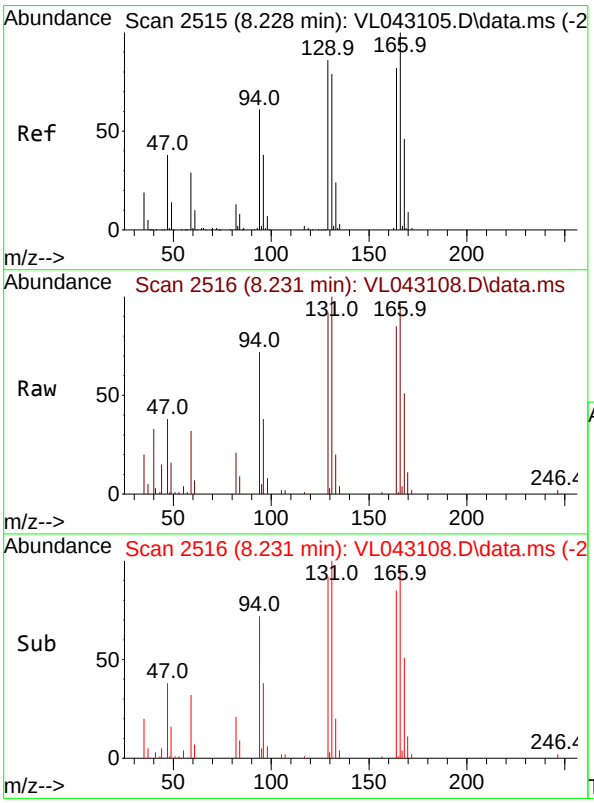
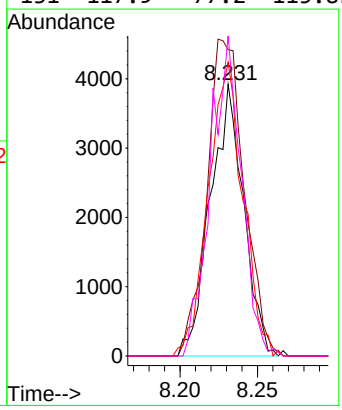
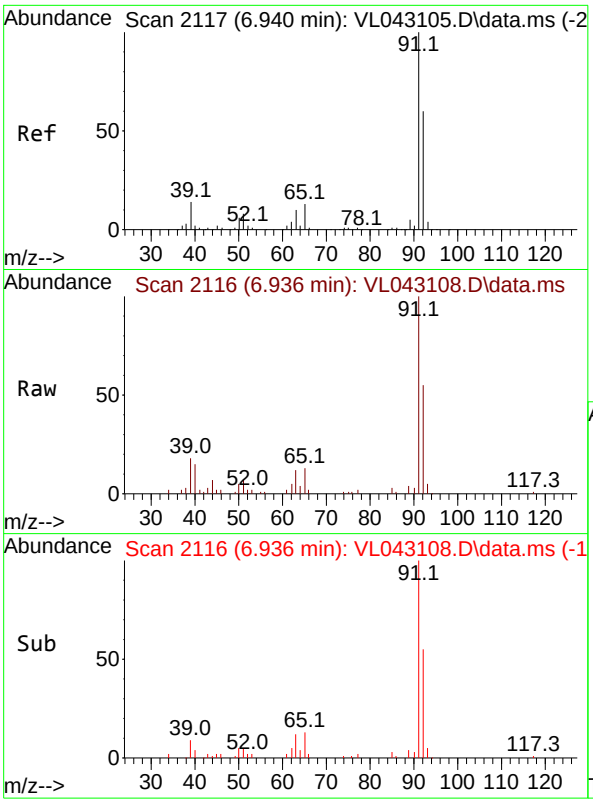


#52
Tetrachloroethene
Concen: 0.513 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:164 Resp: 5863

Ion	Ratio	Lower	Upper
164	100		
166	112.8	97.6	146.4
129	106.1	84.5	126.7
131	117.9	77.2	115.8#

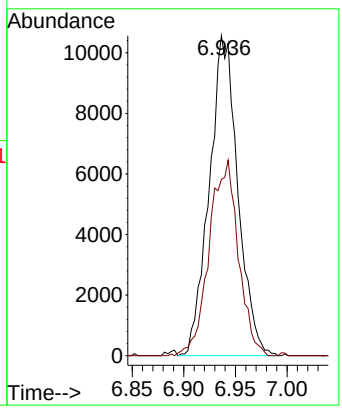




#53
Toluene
Concen: 0.542 ppbv
RT: 6.936 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 2038

Ion	Ratio	Lower	Upper
91	100		
92	62.1	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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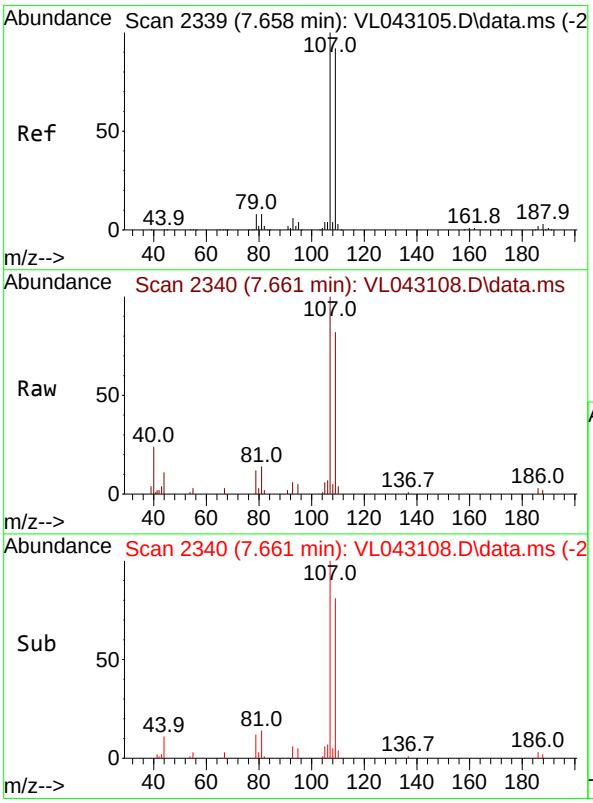
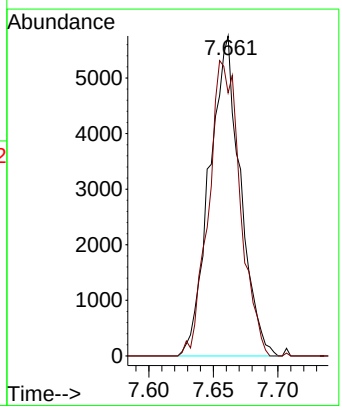
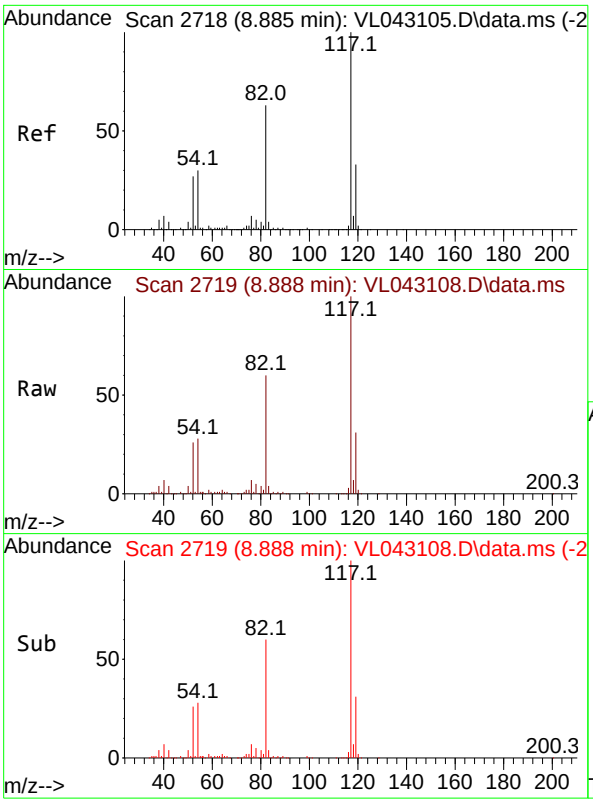


#54
1,2-Dibromoethane
Concen: 0.486 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:107 Resp: 9586

Ion	Ratio	Lower	Upper
107	100		
109	82.2	73.4	110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:117 Resp: 30344

Ion	Ratio	Lower	Upper
117	100		
82	63.9	53.8	80.8
119	32.1	25.4	38.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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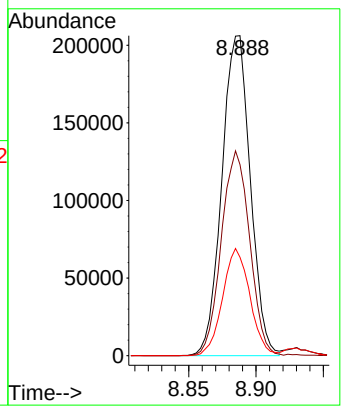
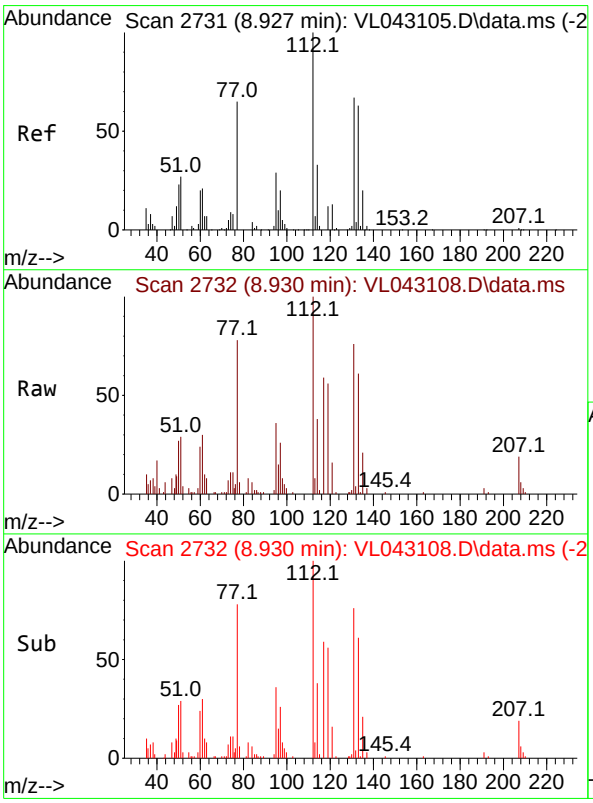
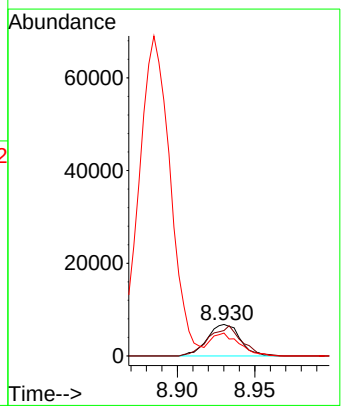


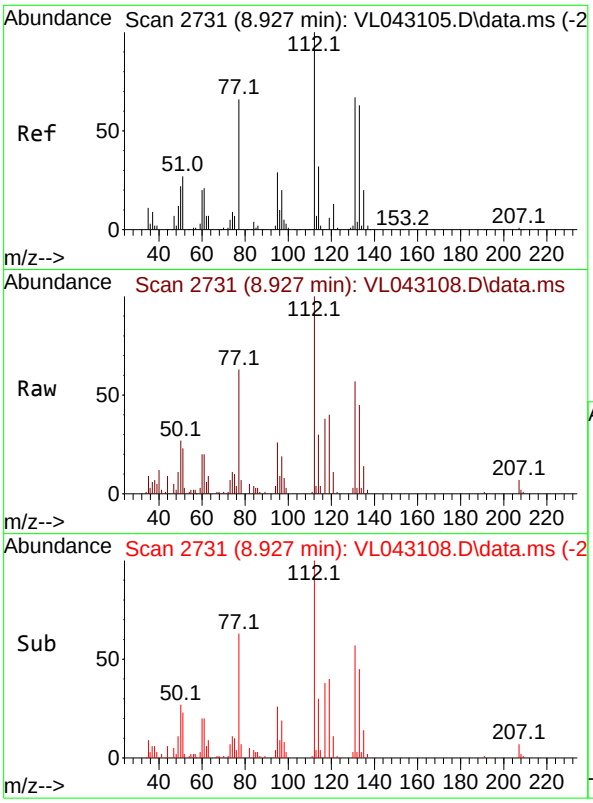


#56
1,1,1,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:131 Resp: 10044

Ion	Ratio	Lower	Upper
131	100		
133	94.6	75.7	113.5
119	1032.5	50.6	76.0#

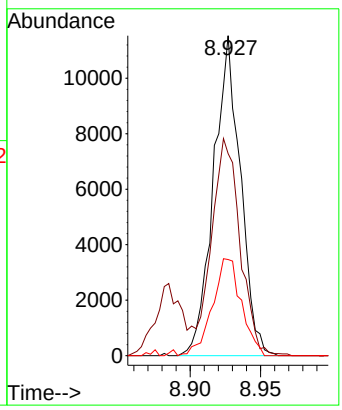




#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:112 Resp: 1531

Ion	Ratio	Lower	Upper
112	100		
77	62.5	53.3	79.9
114	30.0	29.3	35.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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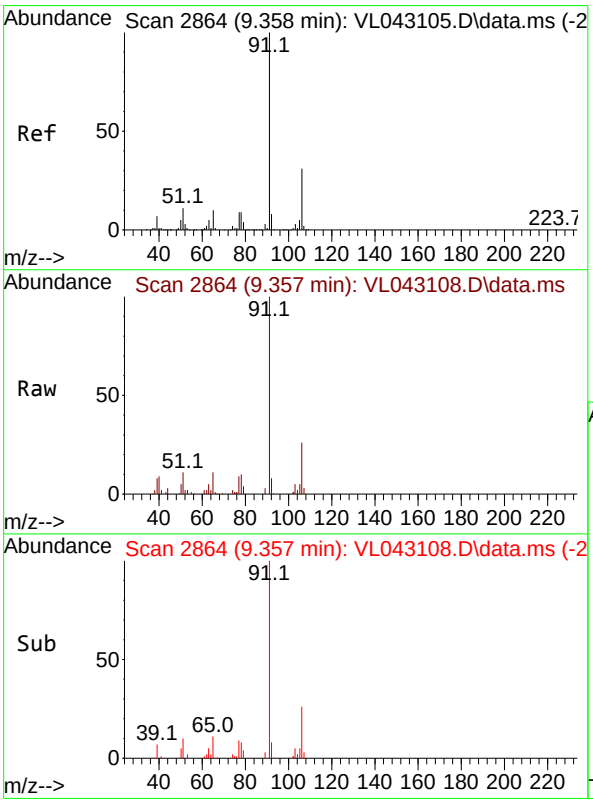
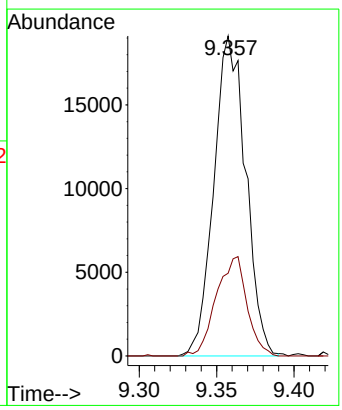
Supervised By :Mahesh Dadoda 10/16/2025

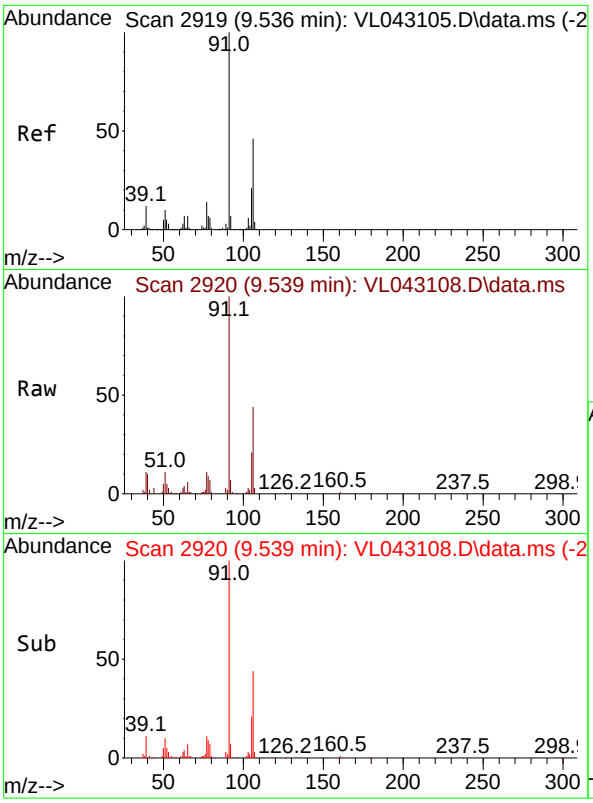


#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 27330

Ion	Ratio	Lower	Upper
91	100		
106	25.8	24.8	37.2

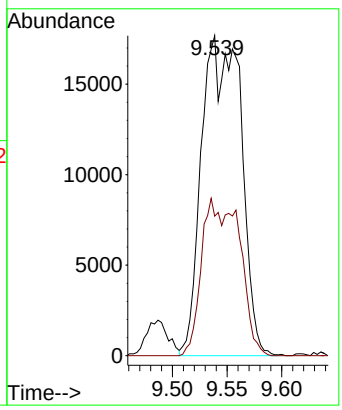




#59
m/p-Xylene
Concen: 1.068 ppbv m
RT: 9.539 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 4440

Ion	Ratio	Lower	Upper
91	100		
106	47.2	38.0	57.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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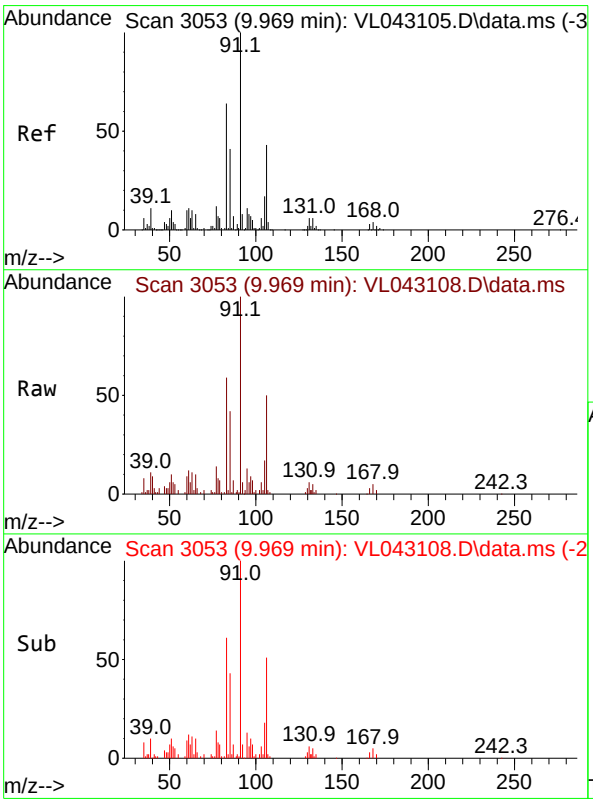
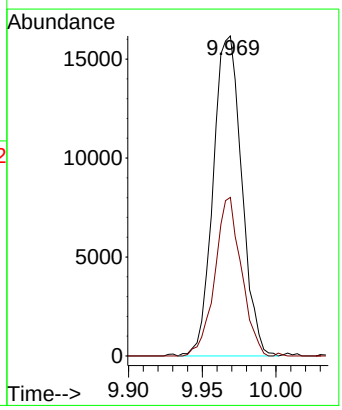
Supervised By :Mahesh Dadoda 10/16/2025

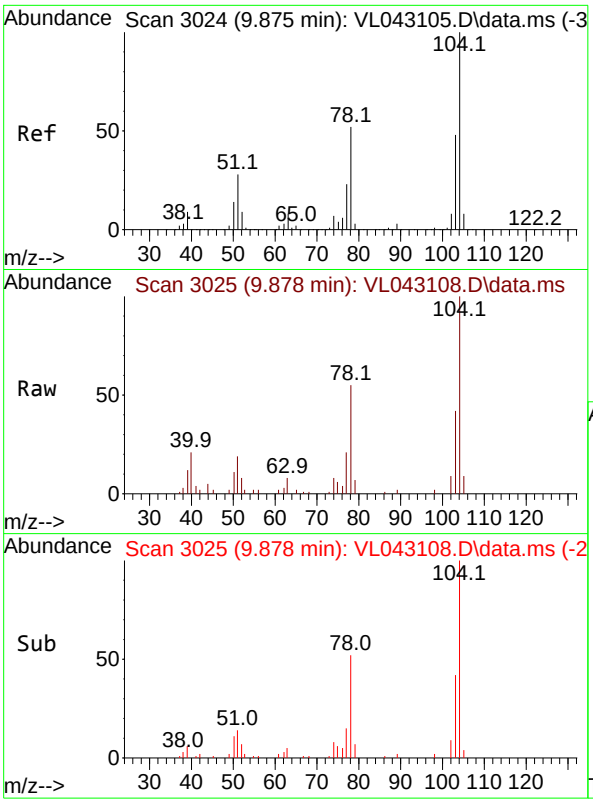


#60
o-Xylene
Concen: 0.530 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 21745

Ion	Ratio	Lower	Upper
91	100		
106	46.2	21.9	65.8

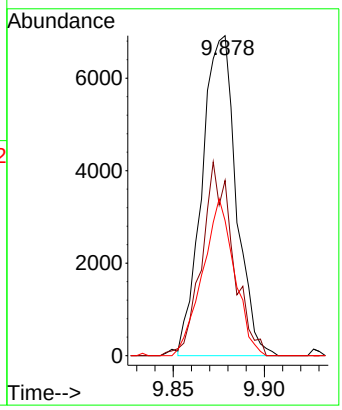




#61
Styrene
Concen: 0.489 ppbv
RT: 9.878 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:104 Resp: 905

Ion	Ratio	Lower	Upper
104	100		
78	55.0	40.2	60.2
103	45.6	36.9	55.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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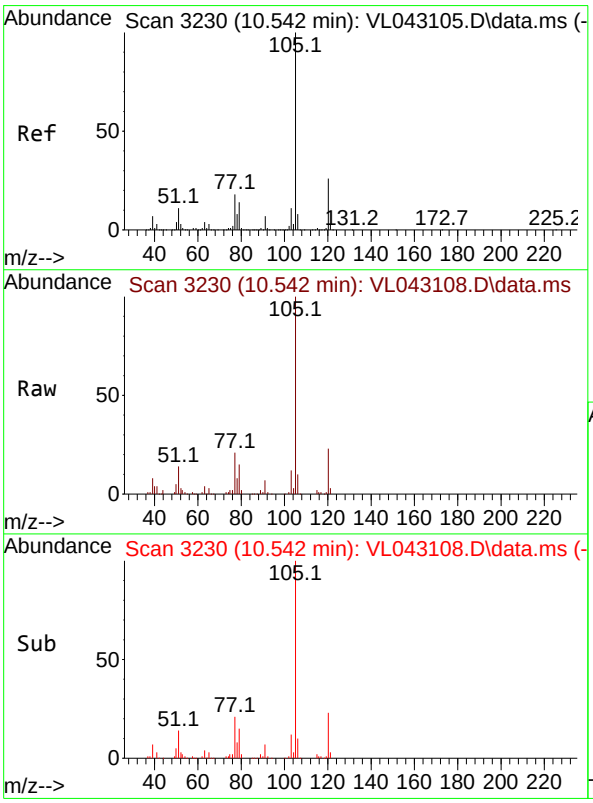
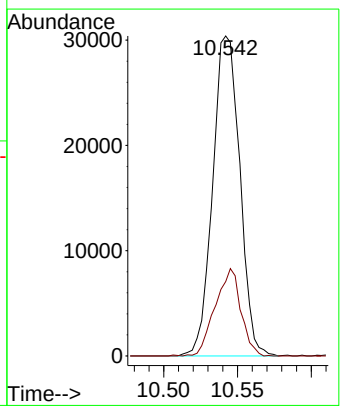
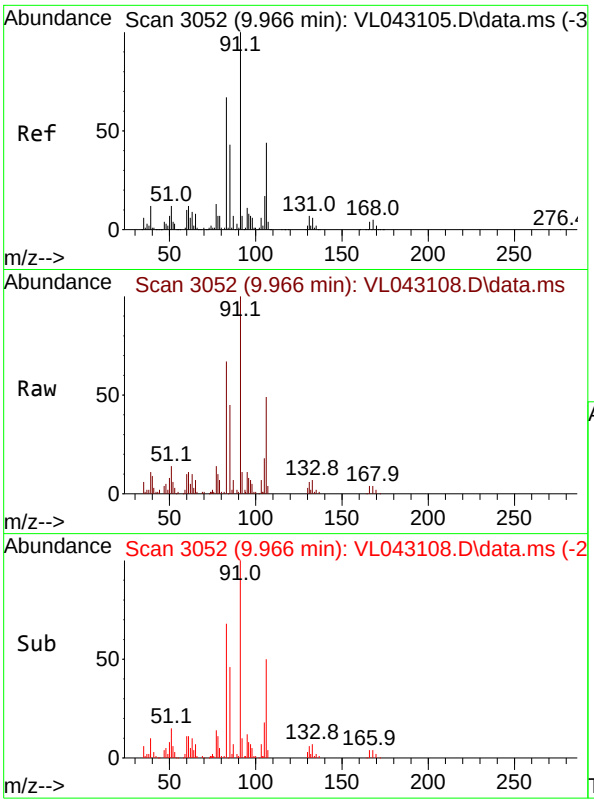


#62
Isopropylbenzene
Concen: 0.525 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 38899

Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.2	30.4

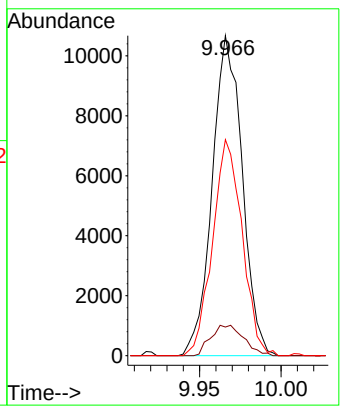




#63
1,1,2,2-Tetrachloroethane
Concen: 0.497 ppbv
RT: 9.966 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 83 Resp: 1365

Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.8	14.3
85	66.7	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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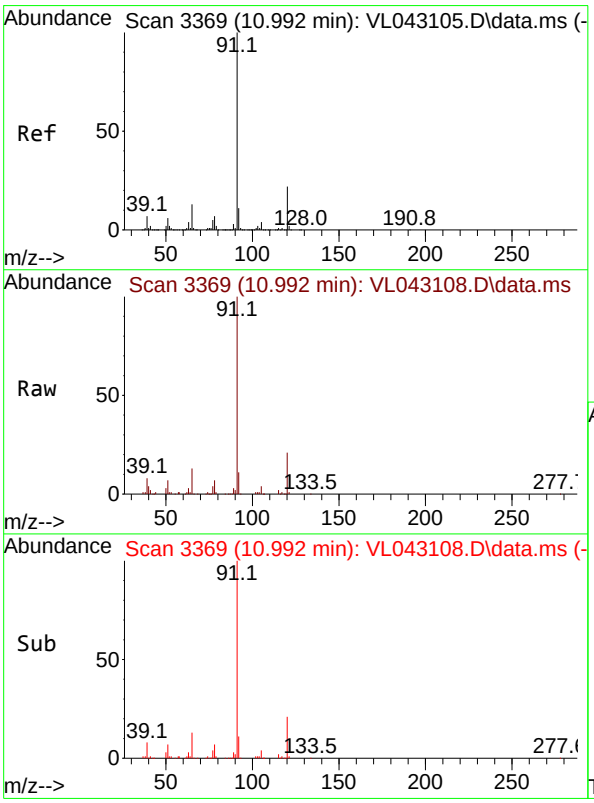
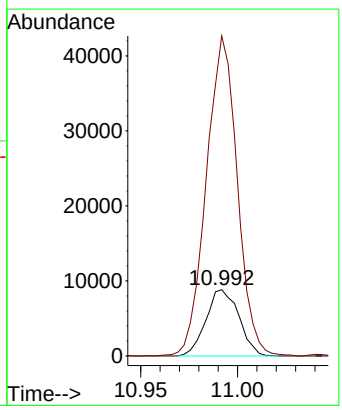
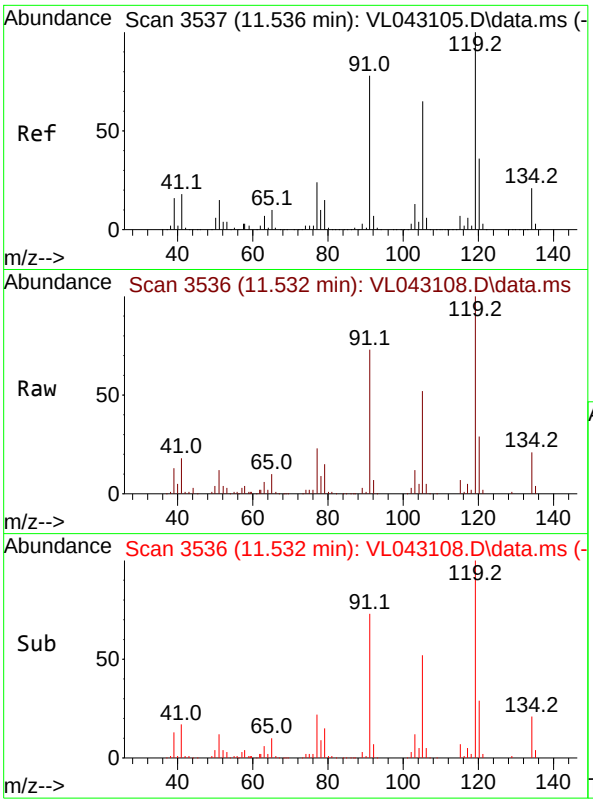


#64
n-propylbenzene
Concen: 0.532 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:120 Resp: 10435

Ion	Ratio	Lower	Upper
120	100		
91	455.0	361.6	542.4

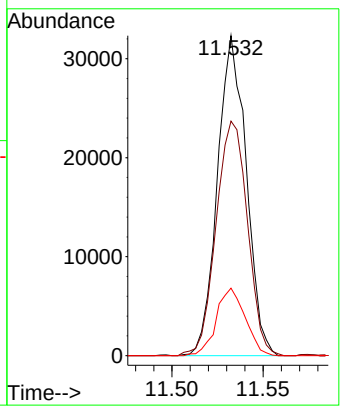




#65
tert-Butylbenzene
Concen: 0.543 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:119 Resp: 3553

Ion	Ratio	Lower	Upper
119	100		
91	80.0	63.4	95.0
134	21.2	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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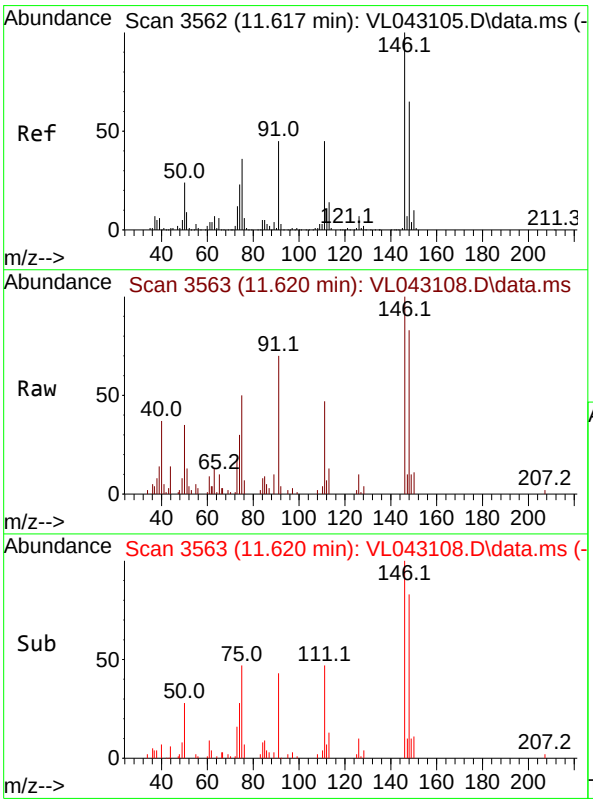
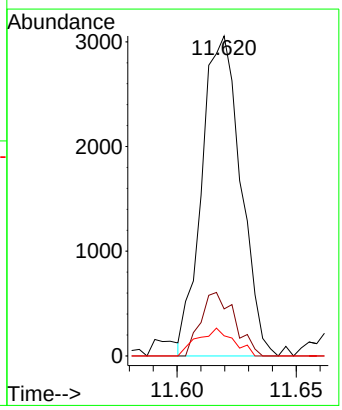
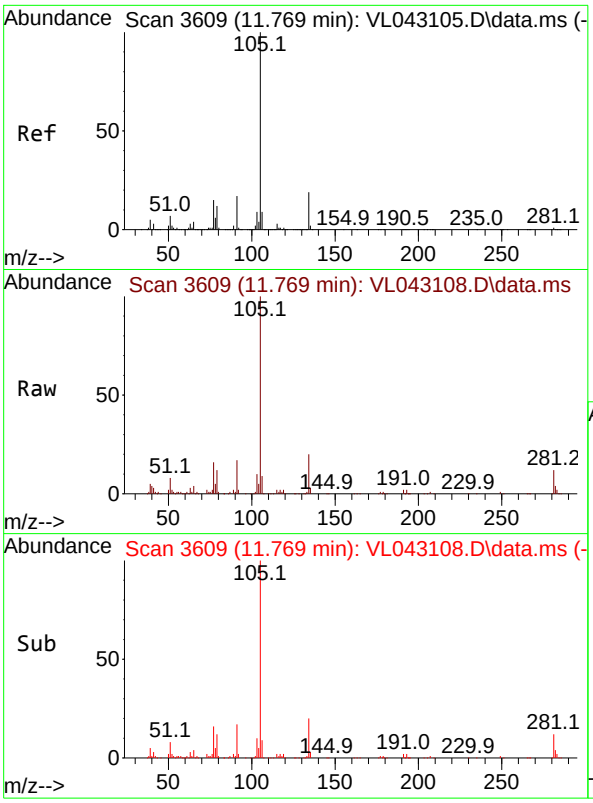


#66
Benzyl Chloride
Concen: 0.476 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 3477

Ion	Ratio	Lower	Upper
91	100		
126	17.3	14.6	22.0
128	7.9	4.6	6.8#

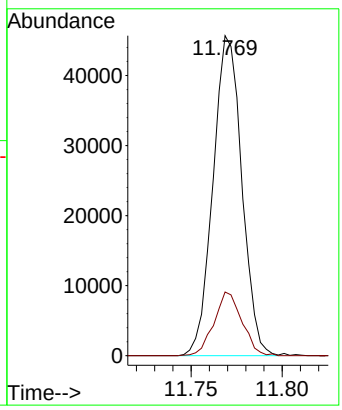




#67
sec-Butylbenzene
Concen: 0.541 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 5025

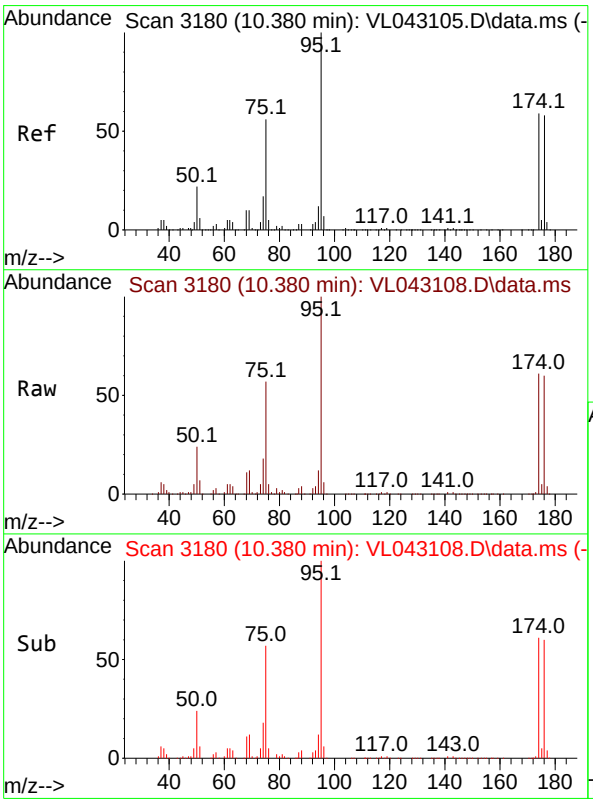
Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

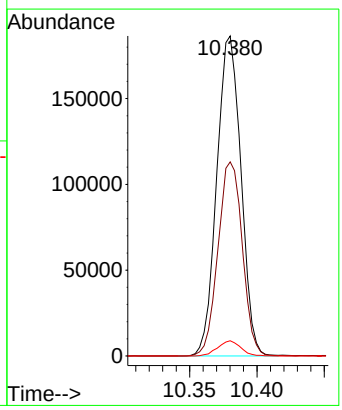
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

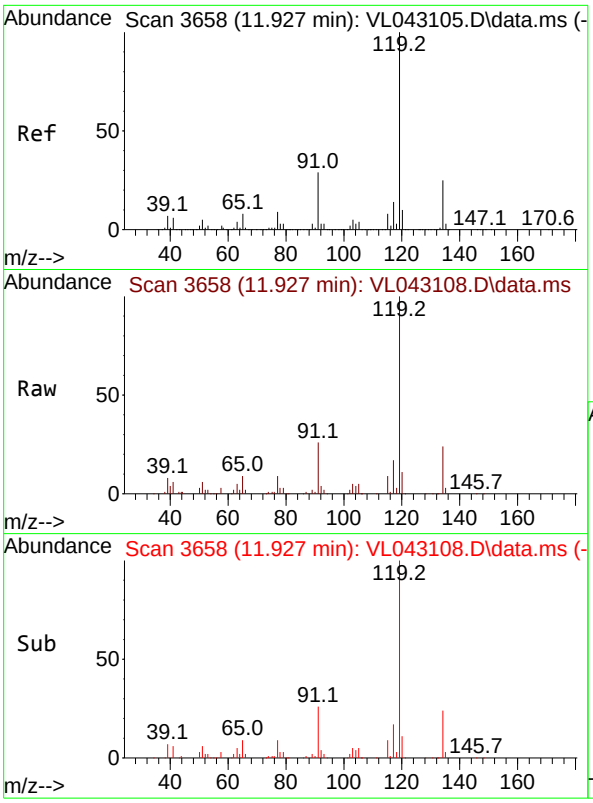


#68
1-Bromo-4-Fluorobenzene
Concen: 9.875 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 95 Resp: 232904

Ion	Ratio	Lower	Upper
95	100		
174	61.0	48.3	72.5
175	4.5	3.8	5.8

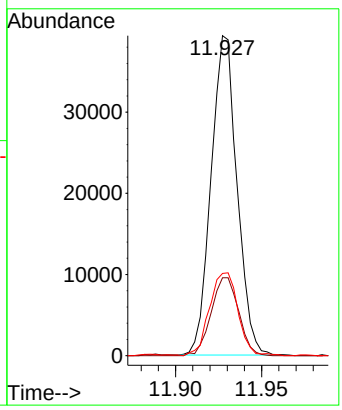




#69
p-Isopropyltoluene
Concen: 0.524 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:119 Resp: 4136

Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.3	30.5
91	28.9	22.6	33.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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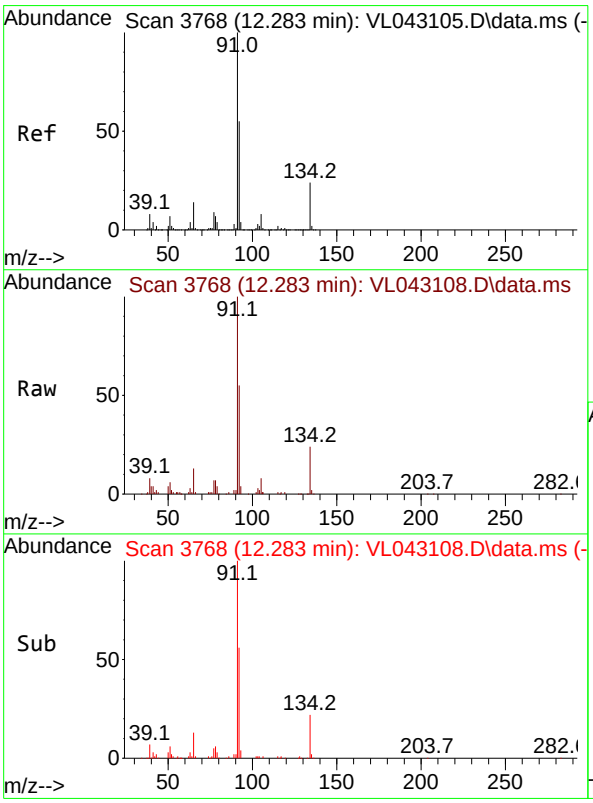
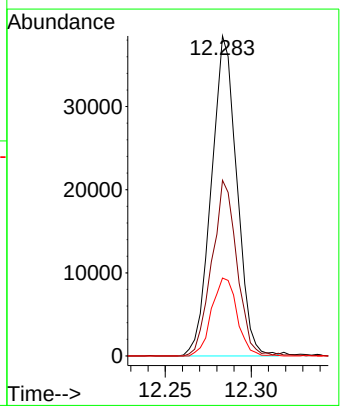
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

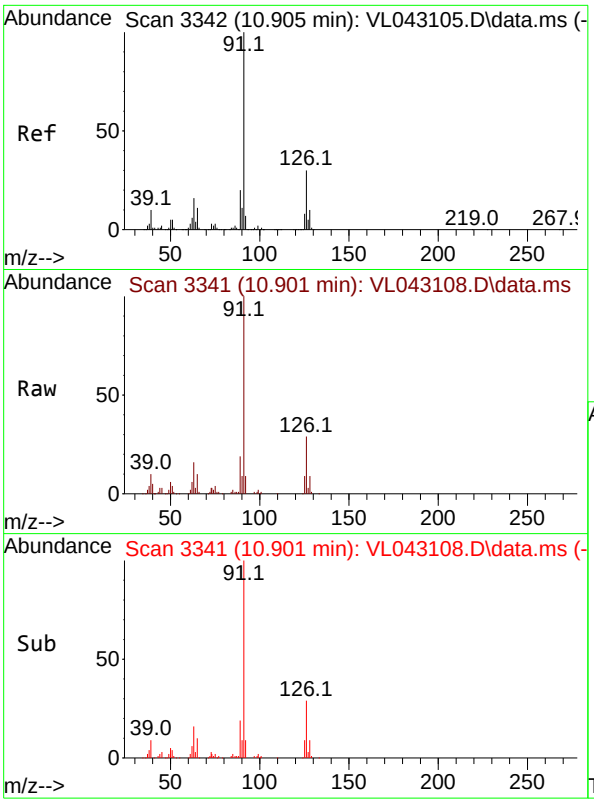


#70
n-Butylbenzene
Concen: 0.509 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 39620

Ion	Ratio	Lower	Upper
91	100		
92	54.2	44.5	66.7
134	24.4	19.3	28.9

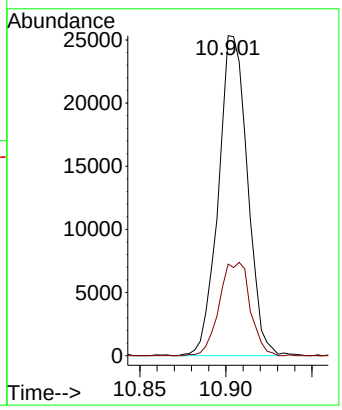




#71
2-Chlorotoluene
Concen: 0.526 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 2972

Ion	Ratio	Lower	Upper
91	100		
126	30.9	12.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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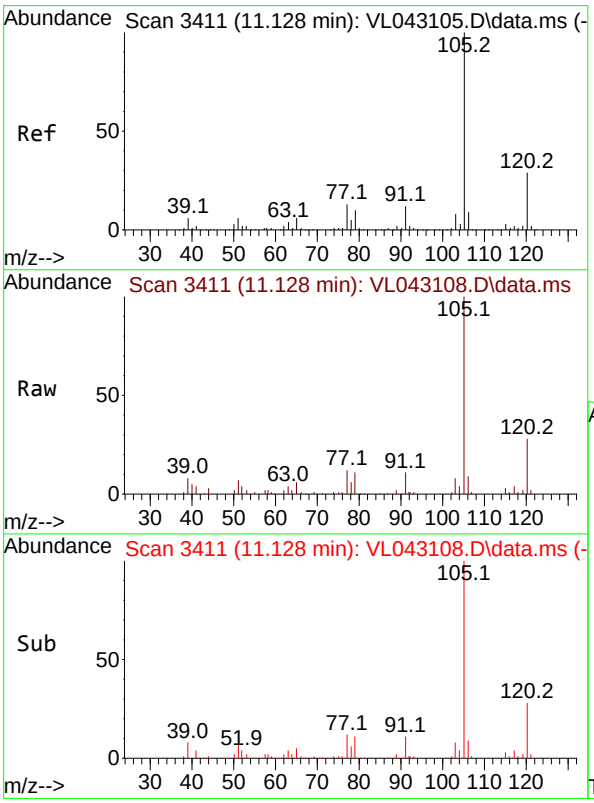
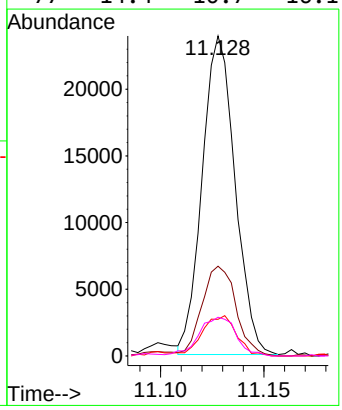
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

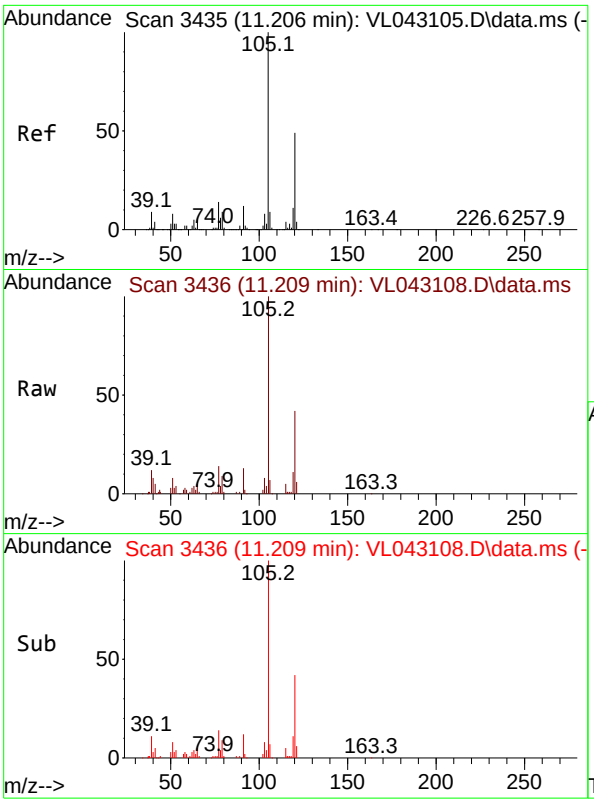


#72
4-Ethyltoluene
Concen: 0.524 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 26408

Ion	Ratio	Lower	Upper
105	100		
120	30.8	24.2	36.4
91	14.6	10.0	15.0
77	14.4	10.7	16.1

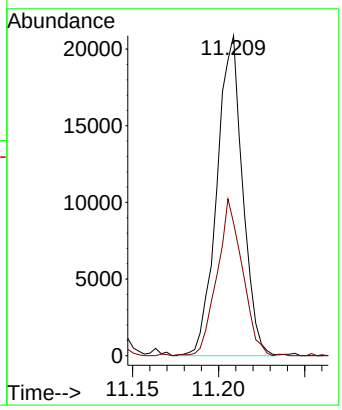




#73
1,3,5-Trimethylbenzene
Concen: 0.523 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 2175

Ion	Ratio	Lower	Upper
105	100		
120	41.1	39.0	58.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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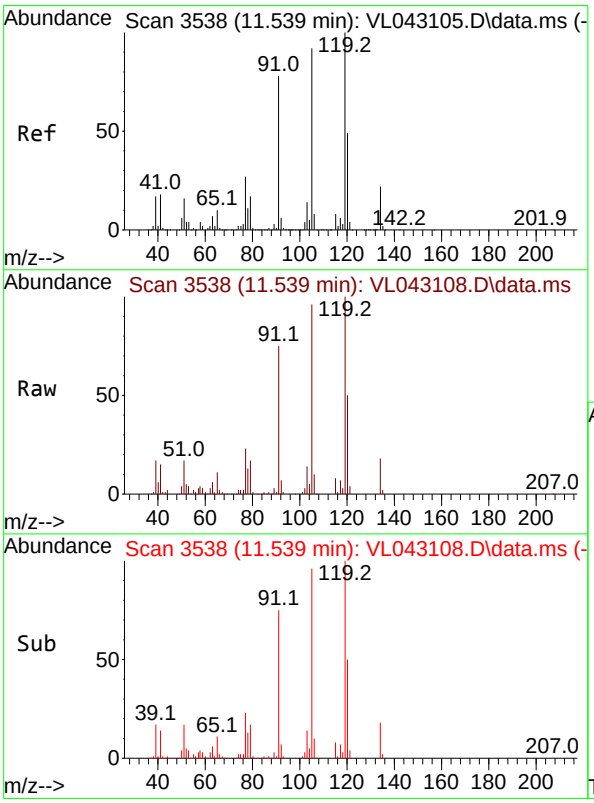
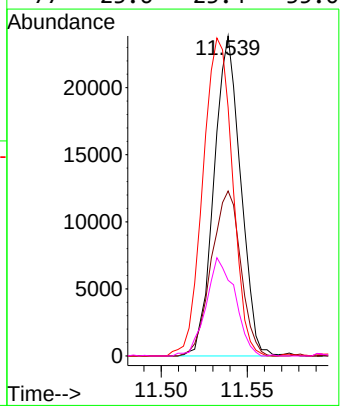
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

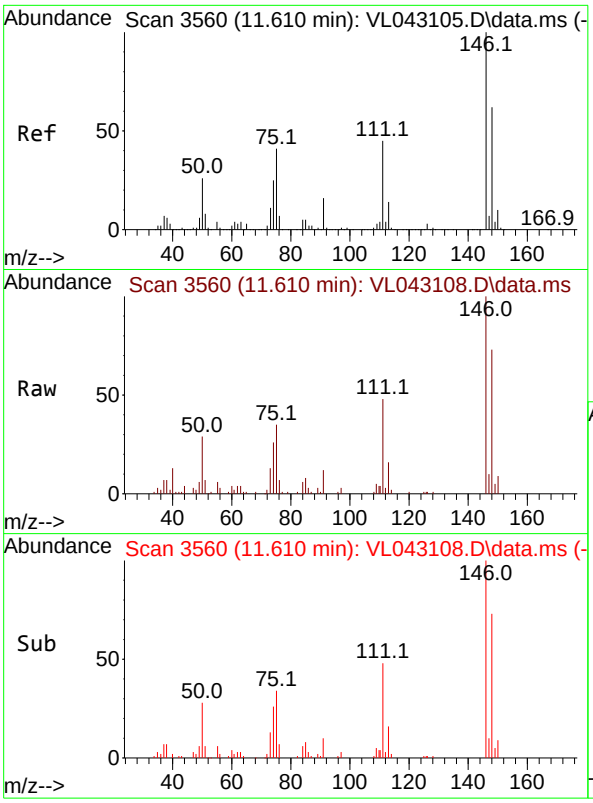


#74
1,2,4-Trimethylbenzene
Concen: 0.551 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 25663

Ion	Ratio	Lower	Upper
105	100		
120	51.5	42.8	64.2
91	77.7	68.3	102.5
77	23.6	23.4	35.0

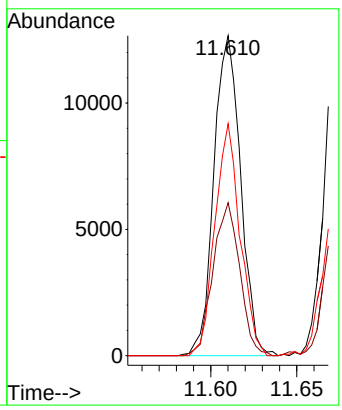




#75
1,3-Dichlorobenzene
Concen: 0.507 ppbv
RT: 11.610 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:146 Resp: 1369

Ion	Ratio	Lower	Upper
146	100		
111	47.8	23.3	69.9
148	68.4	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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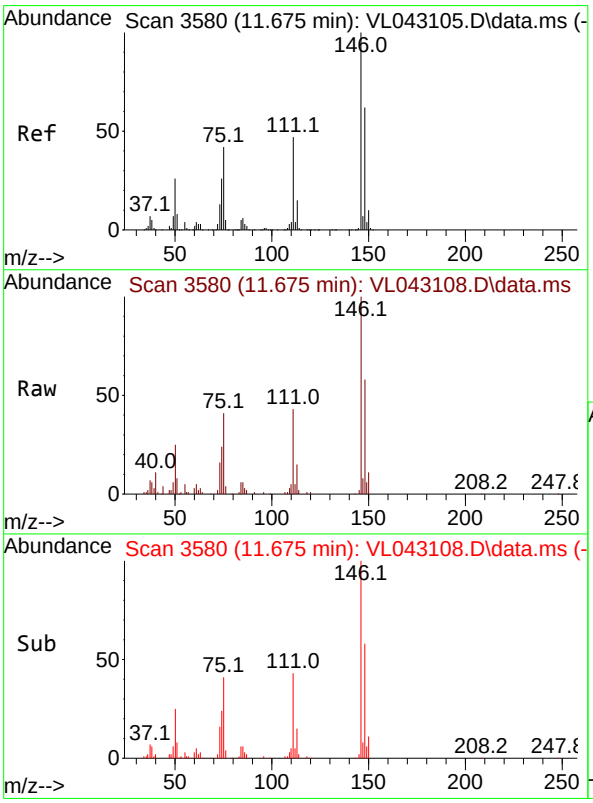
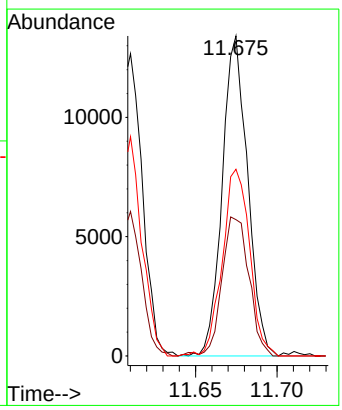
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

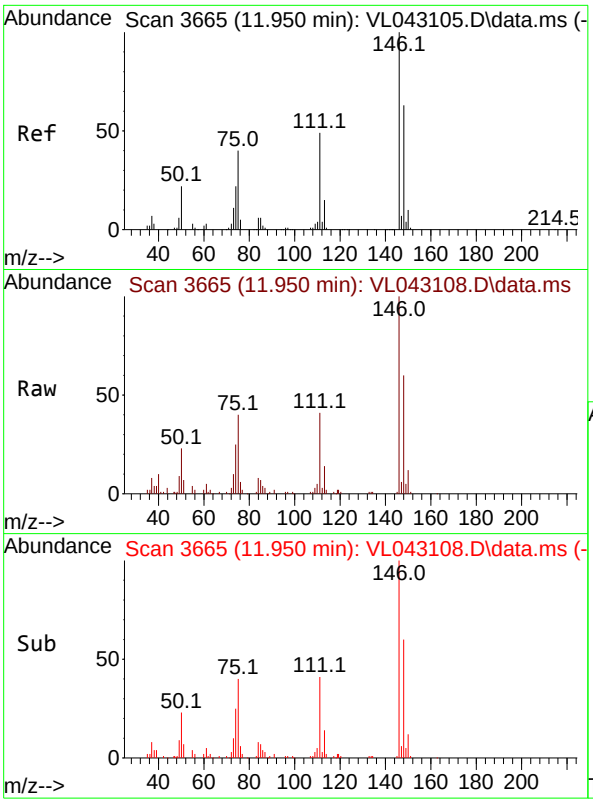


#76
1,4-Dichlorobenzene
Concen: 0.533 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:146 Resp: 14514

Ion	Ratio	Lower	Upper
146	100		
111	46.4	22.4	67.0
148	62.7	31.6	94.7

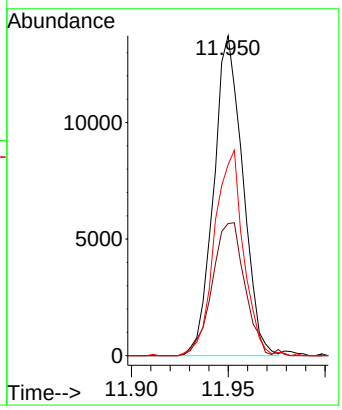




#77
1,2-Dichlorobenzene
Concen: 0.548 ppbv
RT: 11.950 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:146 Resp: 1432

Ion	Ratio	Lower	Upper
146	100		
111	46.9	24.0	72.0
148	64.1	31.1	93.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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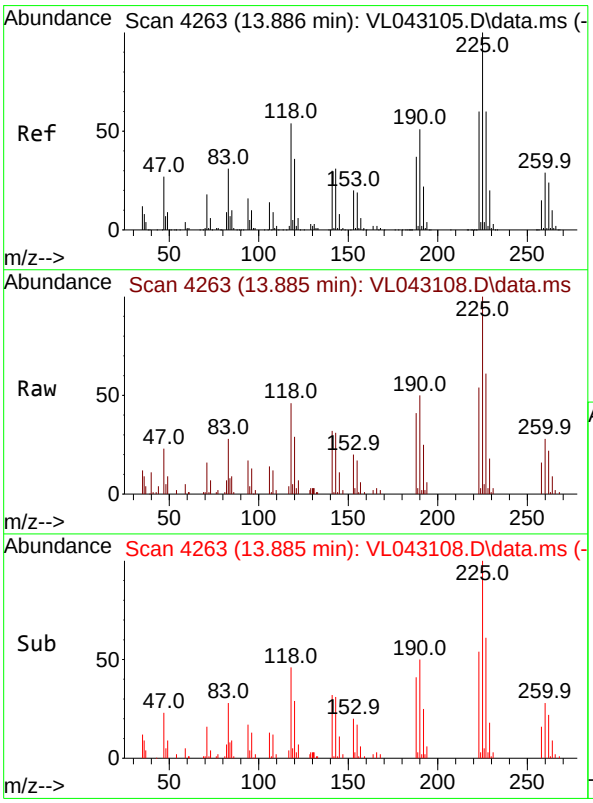
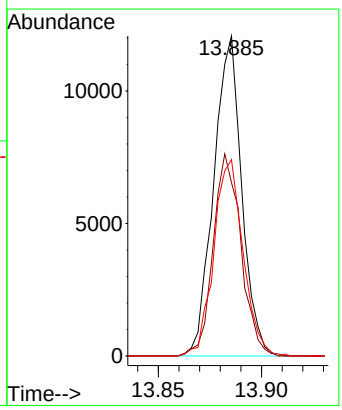
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

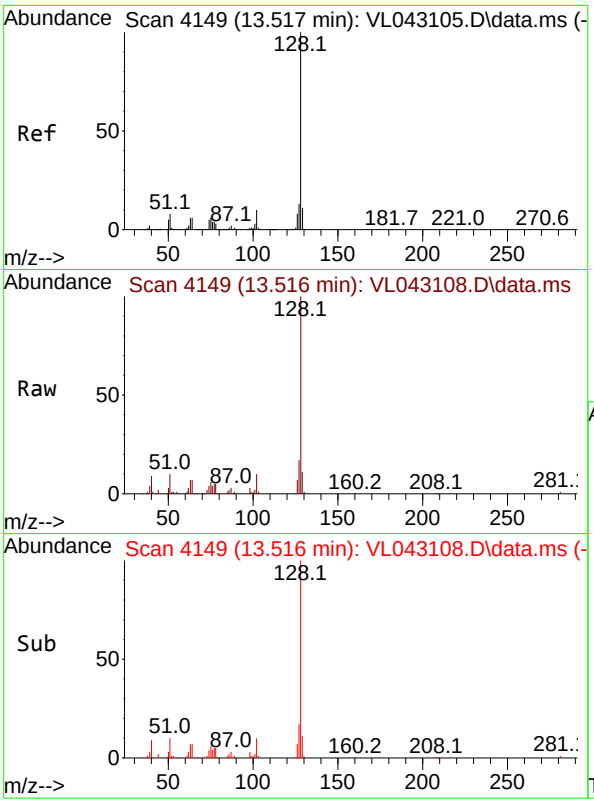


#78
Hexachloro-1,3-Butadiene
Concen: 0.564 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:225 Resp: 11400

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.2	75.4
227	64.2	49.6	74.4

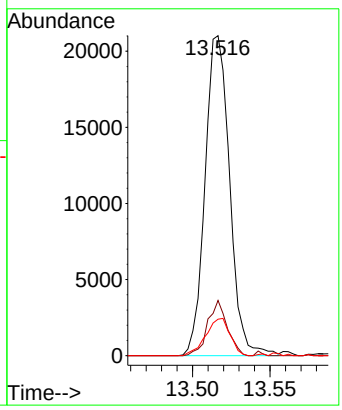




#79
Naphthalene
Concen: 0.483 ppbv
RT: 13.516 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:128 Resp: 2324

Ion	Ratio	Lower	Upper
128	100		
127	17.3	10.5	15.7#
129	11.4	9.1	13.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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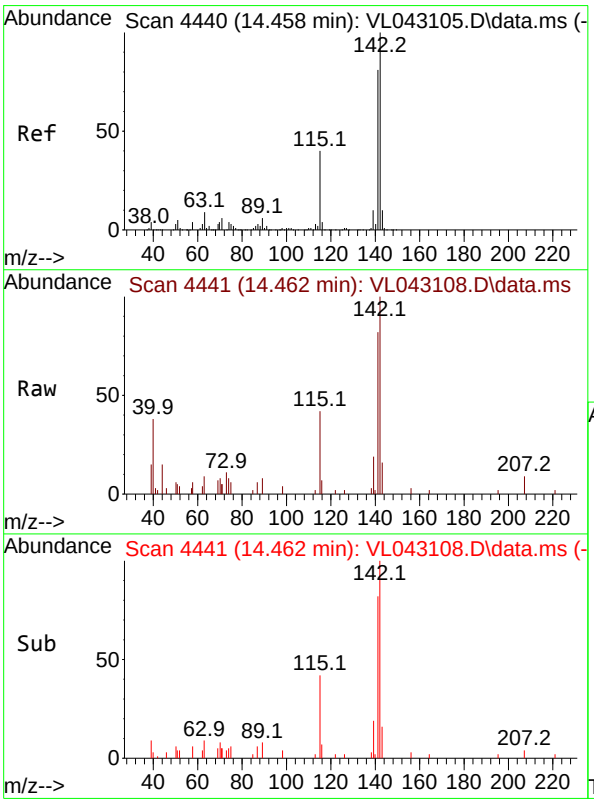
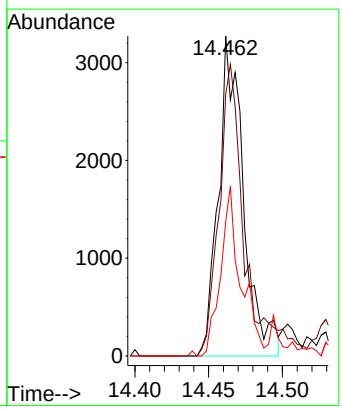
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

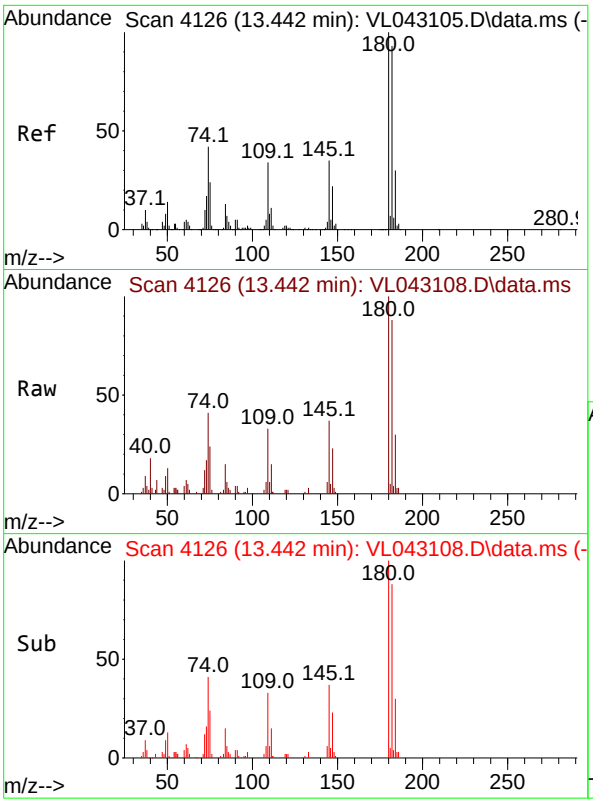


#80
Naphthalene,2-methyl-
Concen: 0.305 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:142 Resp: 3874

Ion	Ratio	Lower	Upper
142	100		
141	92.6	64.6	97.0
115	51.2	30.2	45.4#

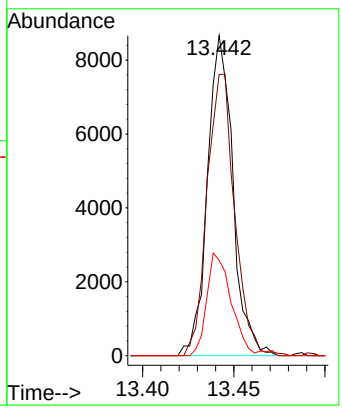




#81
1,2,4-Trichlorobenzene
Concen: 0.416 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:180 Resp: 839

Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.5	113.3
184	31.4	23.9	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043109.D
Acq On : 14 Oct 2025 13:08
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:54:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	99997	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332574	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	299676	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	233673	10.032	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.583	62	554	0.100	ppbv	# 33
32) 1,1,1-Trichloroethane	3.373	97	2605m	0.112	ppbv	
35) Carbon Tetrachloride	3.761	117	2530m	0.106	ppbv	
38) Trichloroethene	4.561	130	1399m	0.107	ppbv	
52) Tetrachloroethene	8.231	164	1149m	0.102	ppbv	
54) 1,2-Dibromoethane	7.658	107	2201	0.113	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	3053	0.113	ppbv	90
79) Naphthalene	13.516	128	3792m	0.080	ppbv	

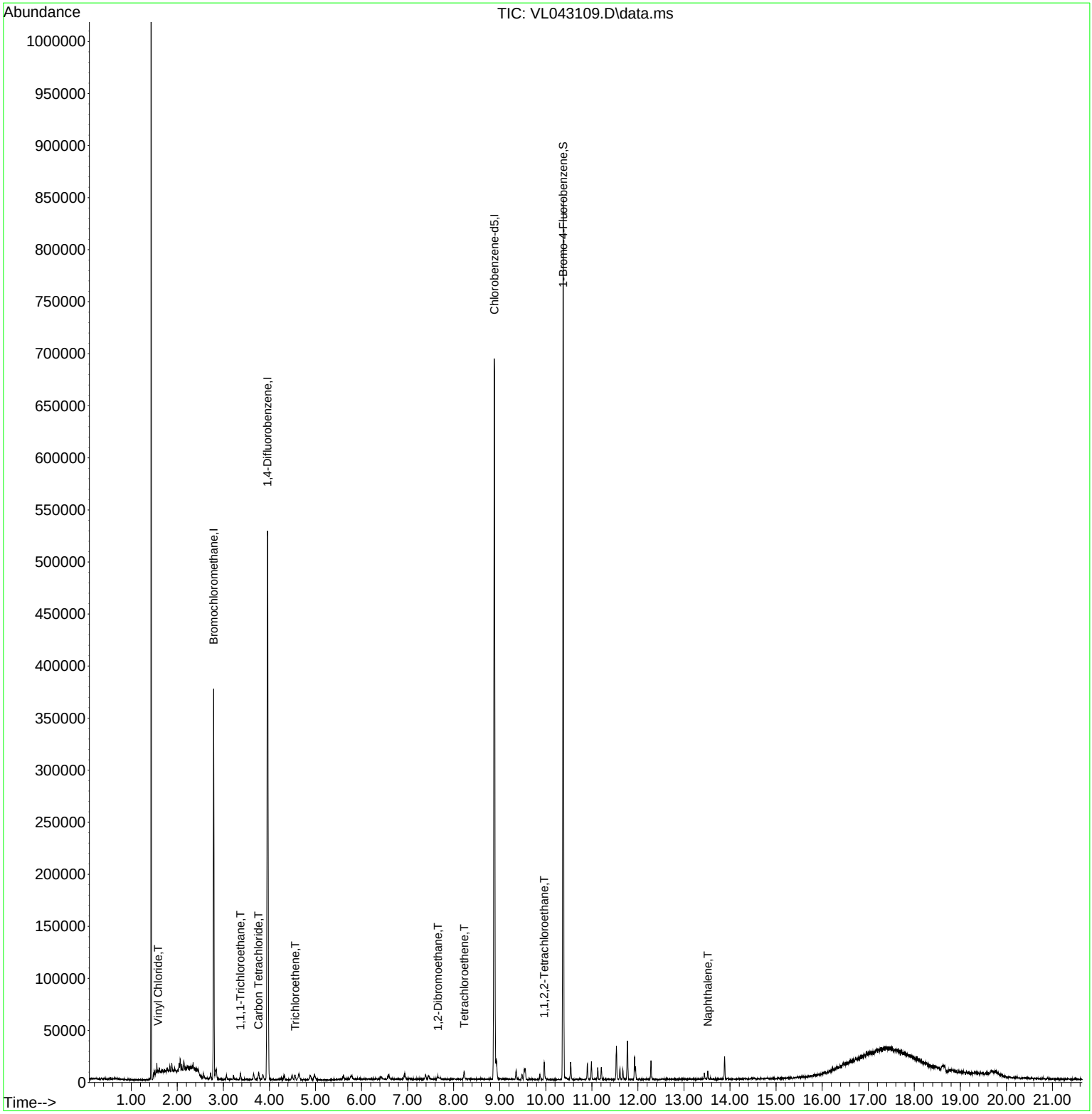
(#) = qualifier out of range (m) = manual integration (+) = signals summed

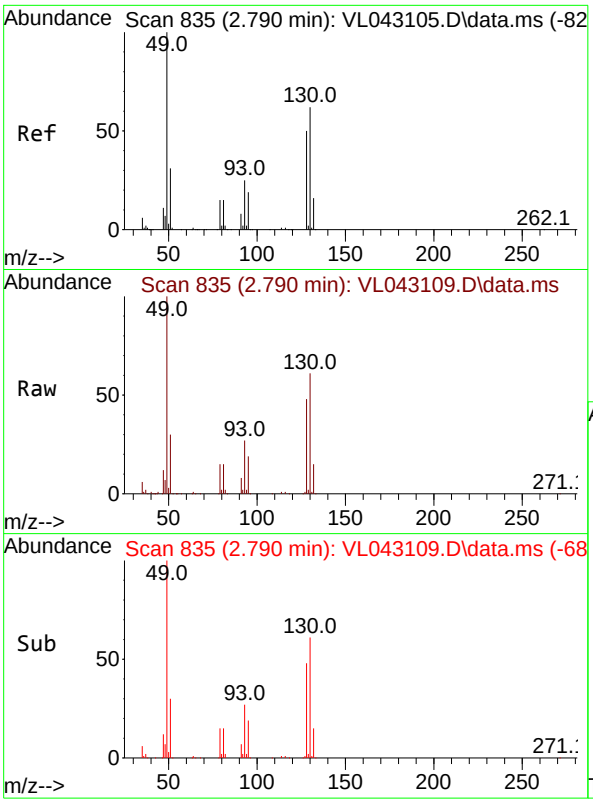
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043109.D
Acq On : 14 Oct 2025 13:08
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:54:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

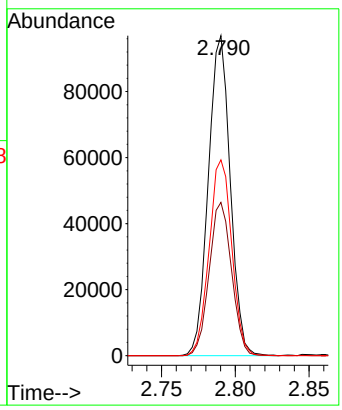




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 49 Resp: 9999

Ion	Ratio	Lower	Upper
49	100		
128	48.9	24.4	73.4
130	63.3	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
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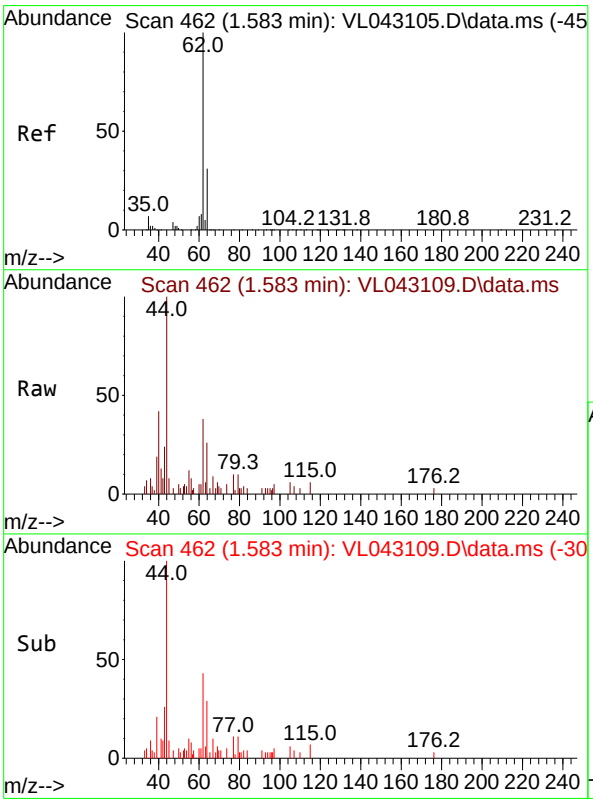
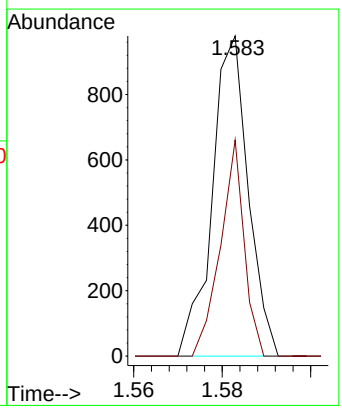
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

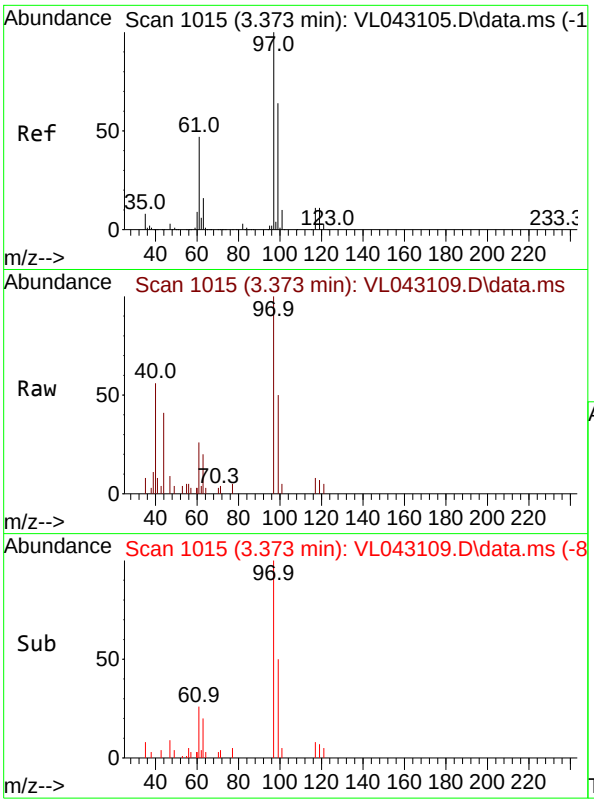


#5
Vinyl Chloride
Concen: 0.100 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 62 Resp: 554

Ion	Ratio	Lower	Upper
62	100		
64	67.5	24.6	36.8#

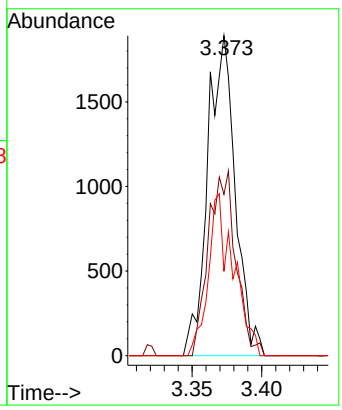




#32
1,1,1-Trichloroethane
Concen: 0.112 ppbv m
RT: 3.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 97 Resp: 260

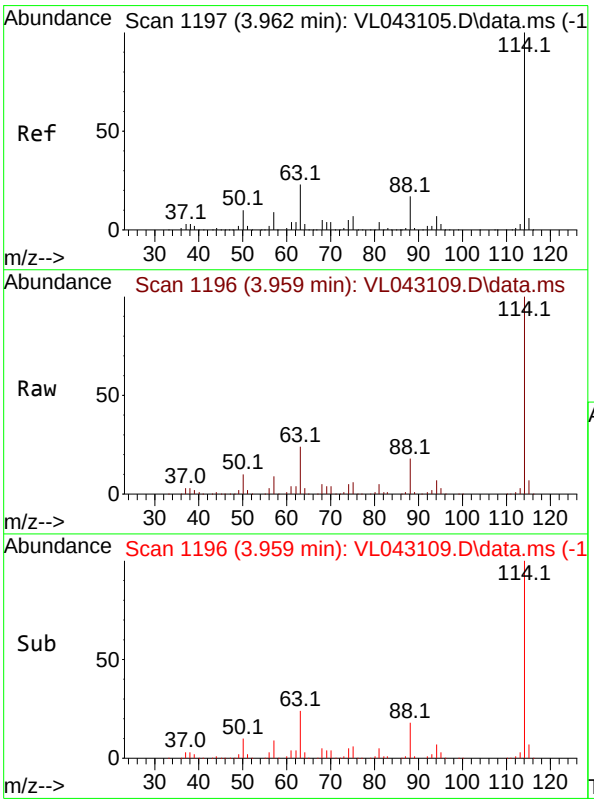
Ion	Ratio	Lower	Upper
97	100		
99	57.5	51.3	76.9
61	46.3	38.4	57.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

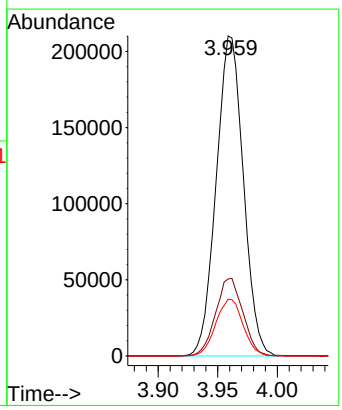
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

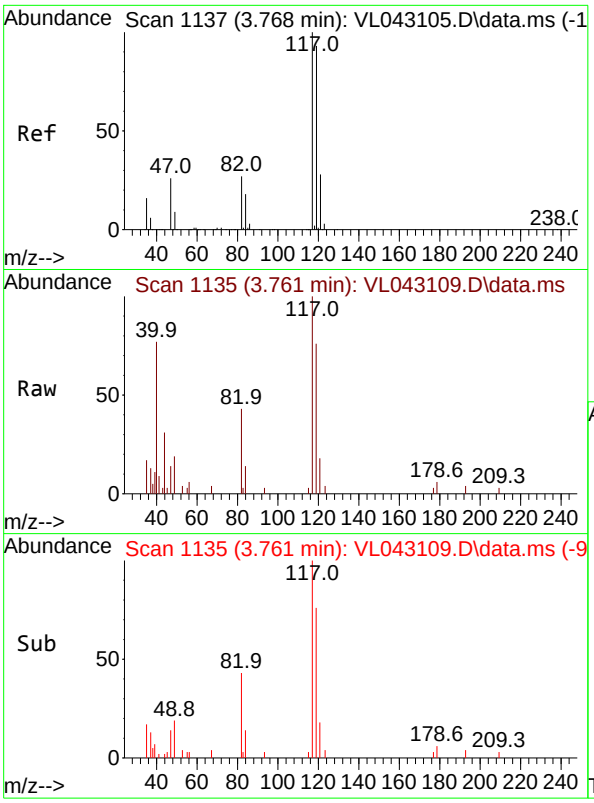


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:114 Resp: 332574

Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.3	28.9
88	17.9	13.9	20.9

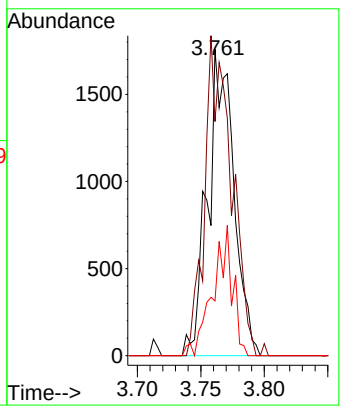




#35
Carbon Tetrachloride
Concen: 0.106 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:117 Resp: 253

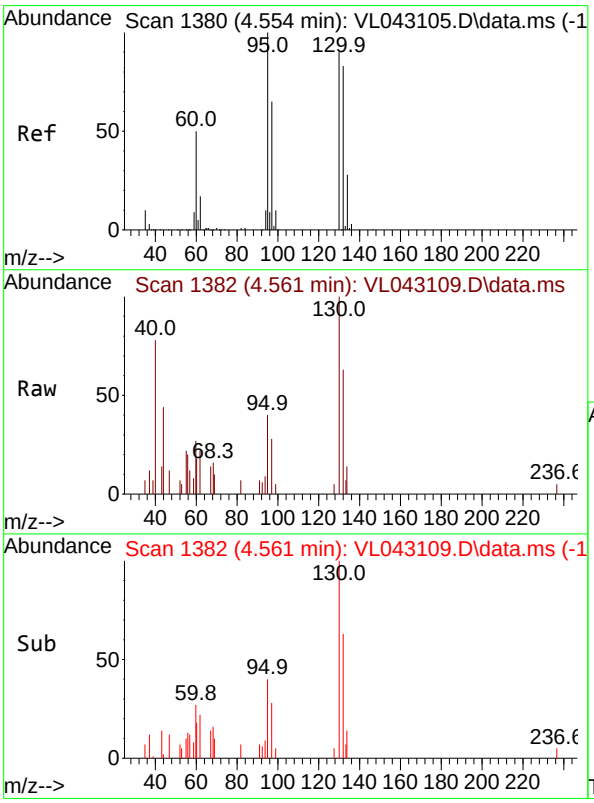
Ion	Ratio	Lower	Upper
117	100		
119	76.4	74.1	111.1
121	17.9	22.2	33.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

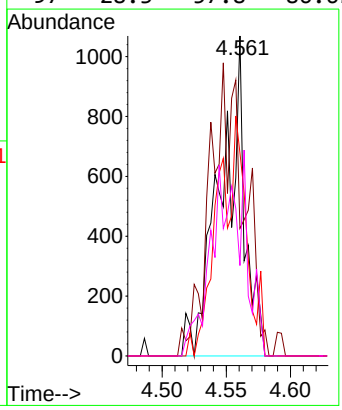
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

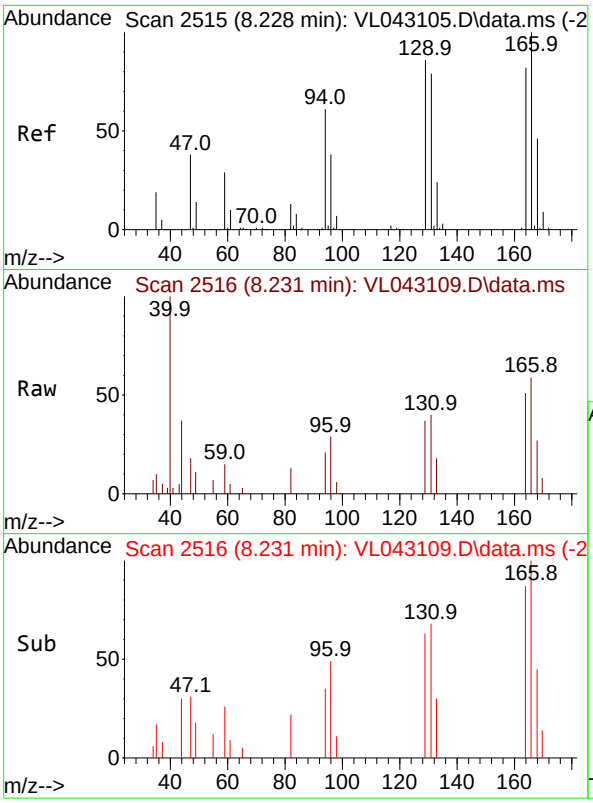


#38
Trichloroethene
Concen: 0.107 ppbv m
RT: 4.561 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:130 Resp: 1399

Ion	Ratio	Lower	Upper
130	100		
95	39.9	88.6	133.0#
132	63.4	73.4	110.0#
97	28.3	57.8	86.6#

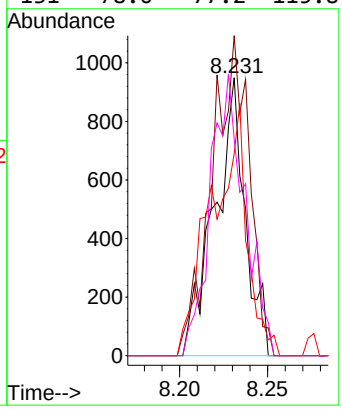




#52
Tetrachloroethene
Concen: 0.102 ppbv m
RT: 8.231 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:164 Resp: 114

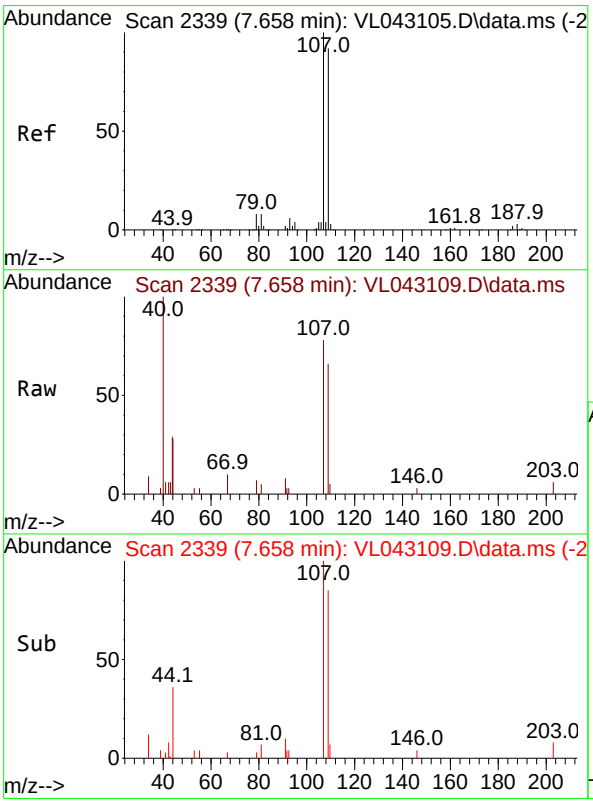
Ion	Ratio	Lower	Upper
164	100		
166	115.2	97.6	146.4
129	72.7	84.5	126.7#
131	78.0	77.2	115.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

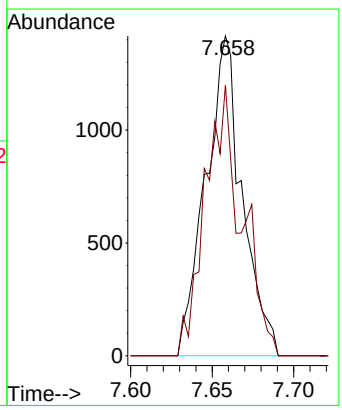
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

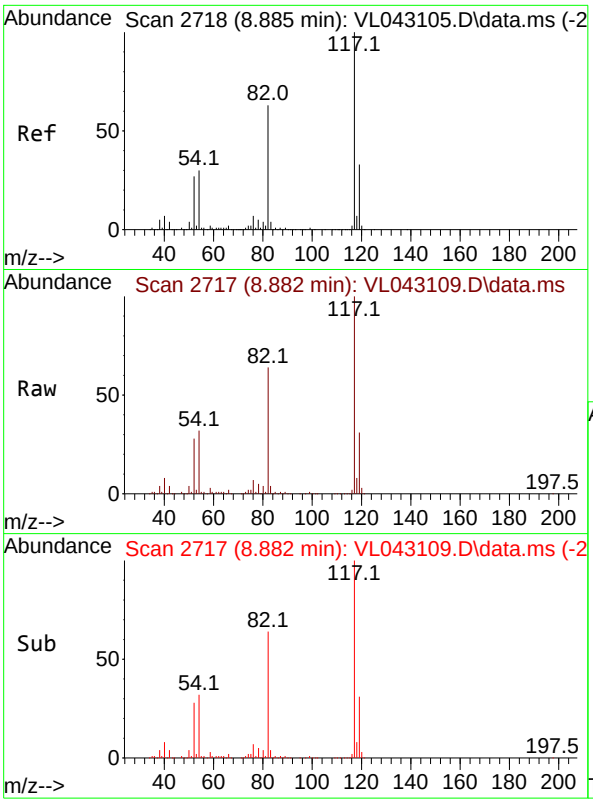


#54
1,2-Dibromoethane
Concen: 0.113 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:107 Resp: 2201

Ion	Ratio	Lower	Upper
107	100		
109	91.5	73.4	110.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

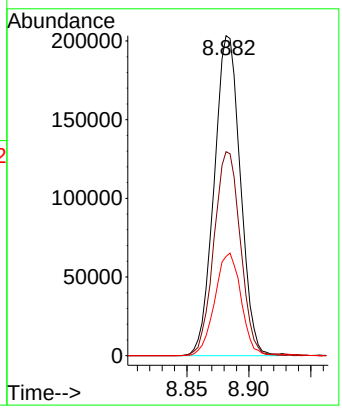
Tgt Ion:117 Resp: 29967

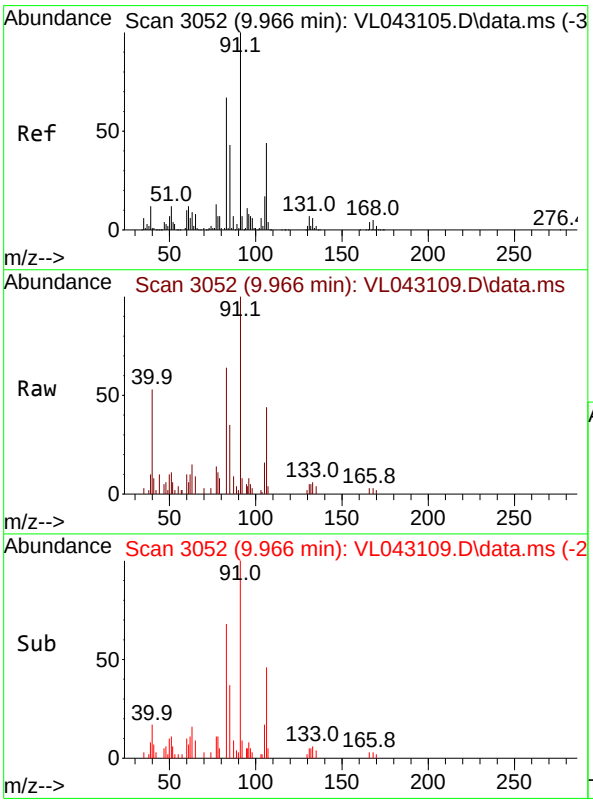
Ion	Ratio	Lower	Upper
117	100		
82	64.3	53.8	80.8
119	32.5	25.4	38.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

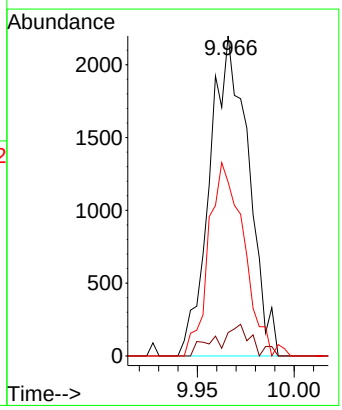


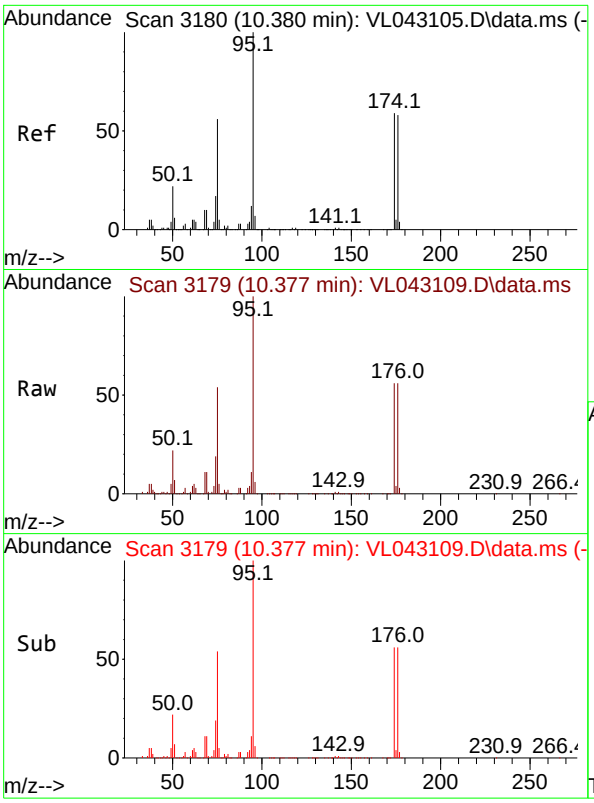


#63
1,1,2,2-Tetrachloroethane
Concen: 0.113 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 83 Resp: 3053

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.8	14.3
85	55.2	32.0	96.0

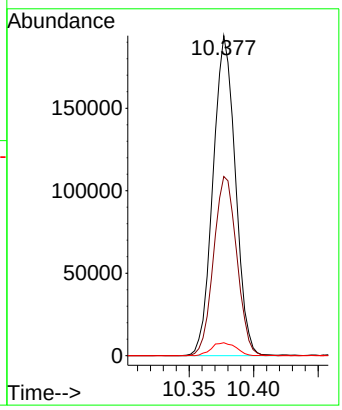




#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.377 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 95 Resp: 23367

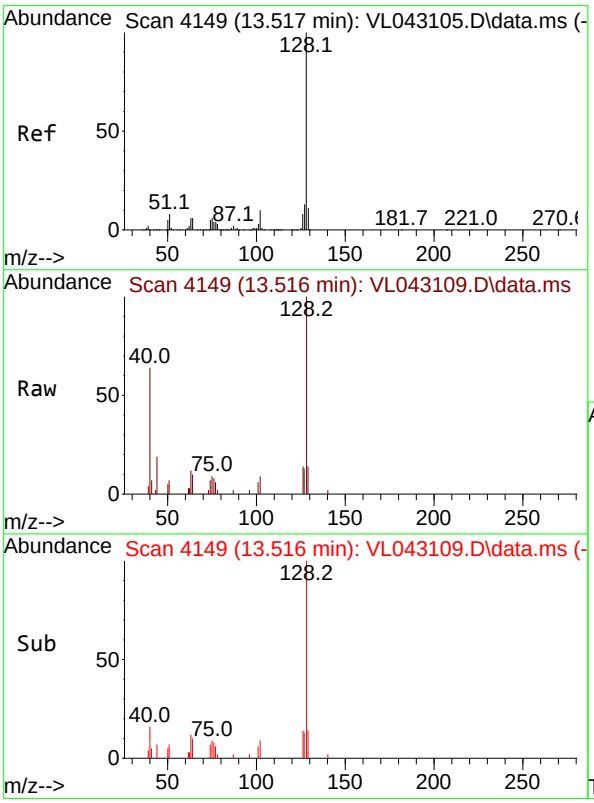
Ion	Ratio	Lower	Upper
95	100		
174	58.0	48.3	72.5
175	4.5	3.8	5.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

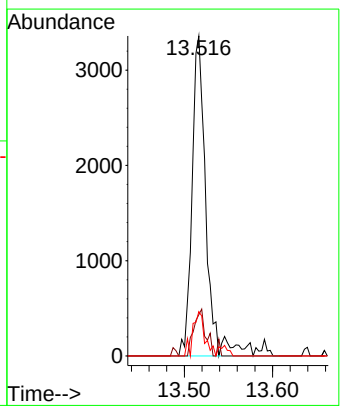
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#79
Naphthalene
Concen: 0.080 ppbv m
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:128 Resp: 3792

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	13.8	9.1	13.7#



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043110.D
Acq On : 14 Oct 2025 13:42
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	100058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	328897	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	292884	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	224043	9.841	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.400%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.583	62	217	0.039	ppbv	# 78
32) 1,1,1-Trichloroethane	3.376	97	650m	0.028	ppbv	
35) Carbon Tetrachloride	3.761	117	742m	0.031	ppbv	
38) Trichloroethene	4.551	130	454m	0.035	ppbv	
52) Tetrachloroethene	8.218	164	349m	0.031	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	904m	0.034	ppbv	

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

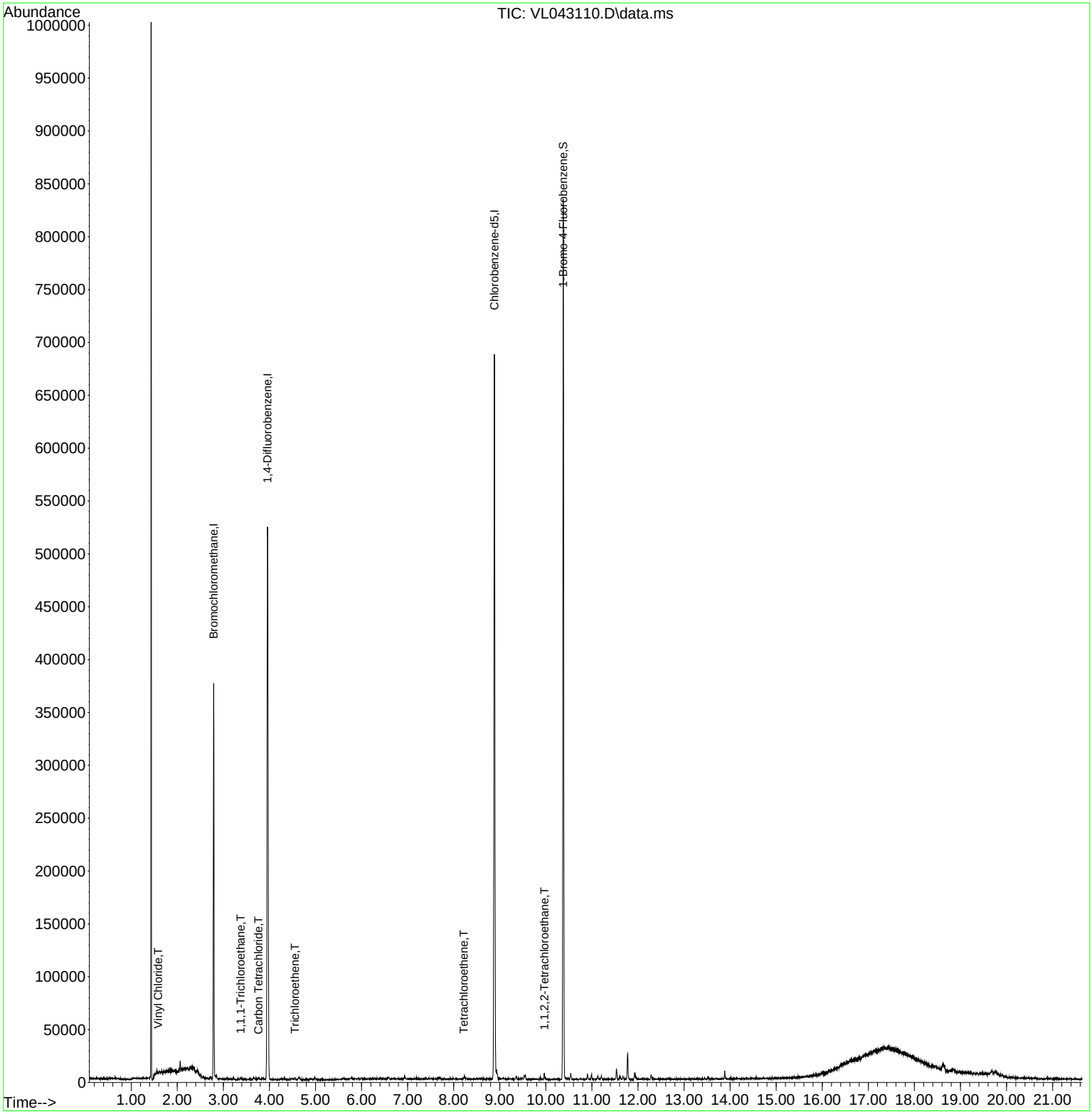
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043110.D
Acq On : 14 Oct 2025 13:42
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

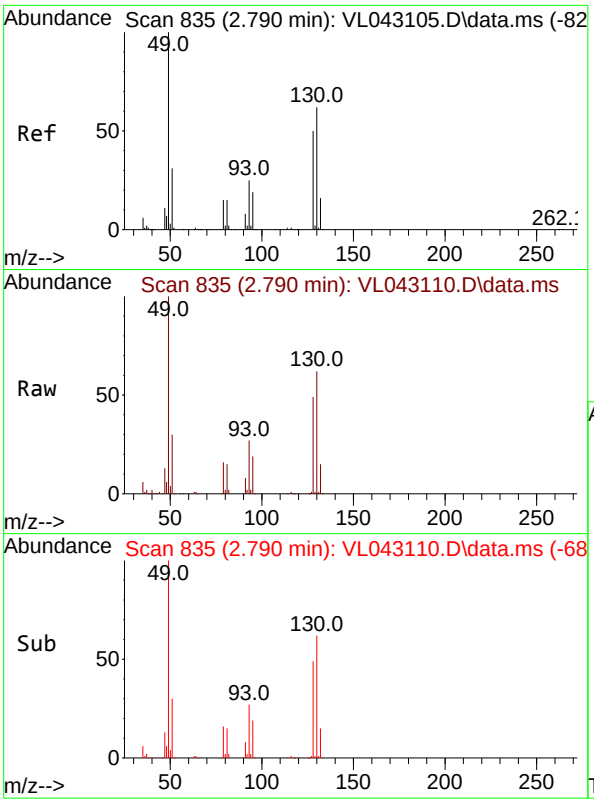
Quant Time: Oct 15 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

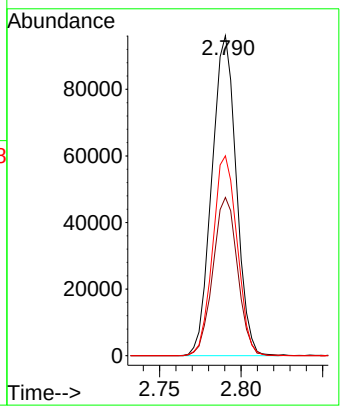




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 49 Resp: 10005

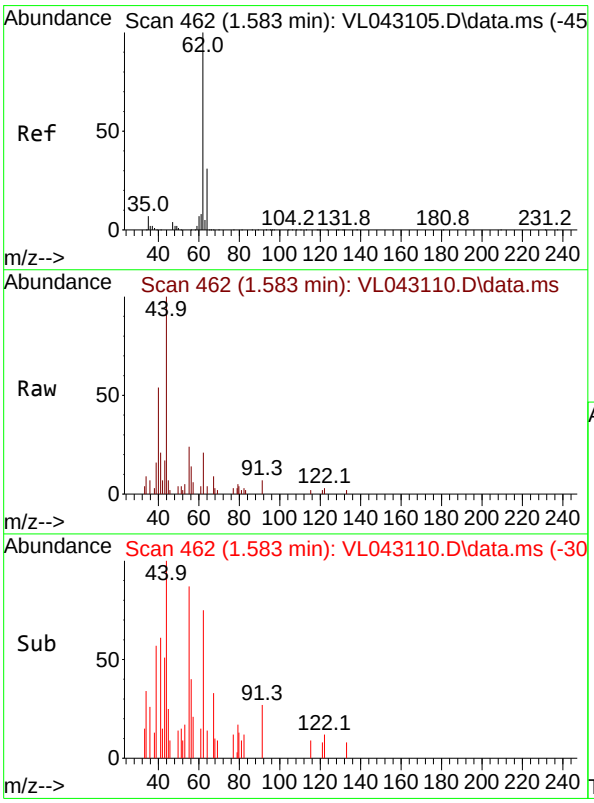
Ion	Ratio	Lower	Upper
49	100		
128	49.9	24.4	73.4
130	62.5	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

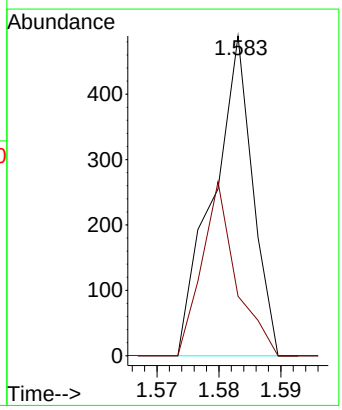
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

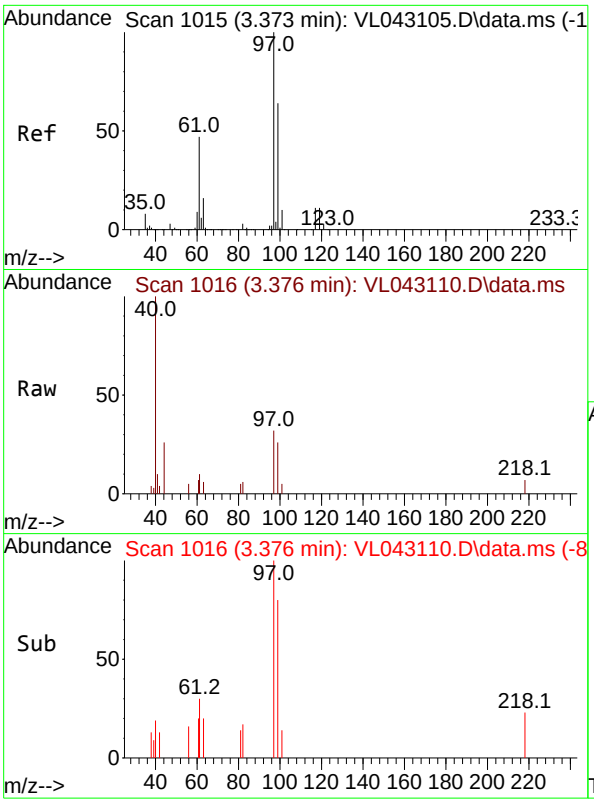


#5
Vinyl Chloride
Concen: 0.039 ppbv
RT: 1.583 min Scan# 462
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 62 Resp: 217

Ion	Ratio	Lower	Upper
62	100		
64	18.6	24.6	36.8#

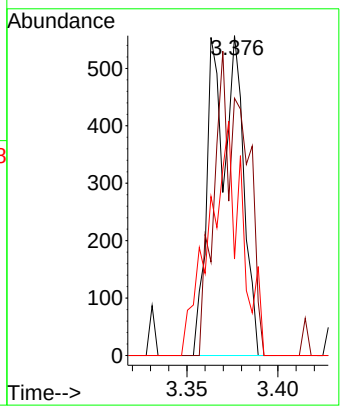




#32
1,1,1-Trichloroethane
Concen: 0.028 ppbv m
RT: 3.376 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 97 Resp: 65

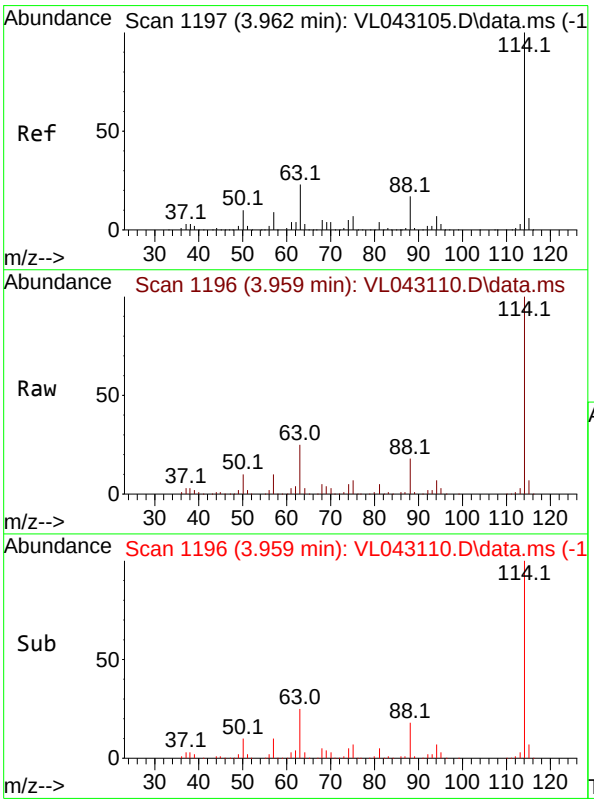
Ion	Ratio	Lower	Upper
97	100		
99	96.0	51.3	76.9#
61	77.4	38.4	57.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

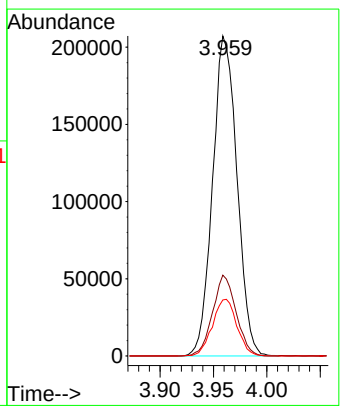
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

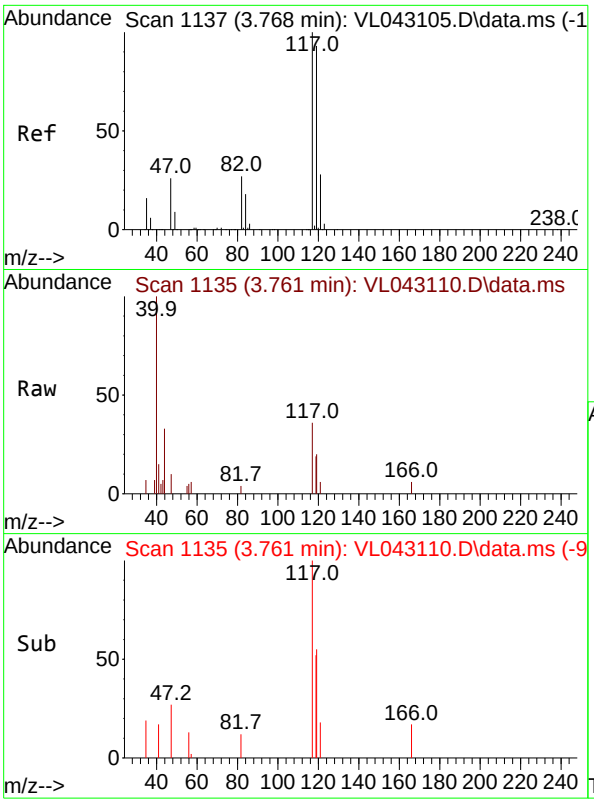


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:114 Resp: 328897

Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.3	28.9
88	17.8	13.9	20.9

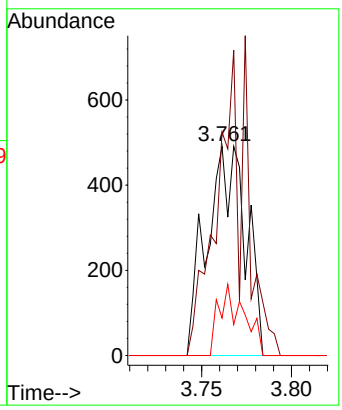




#35
Carbon Tetrachloride
Concen: 0.031 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:117 Resp: 74

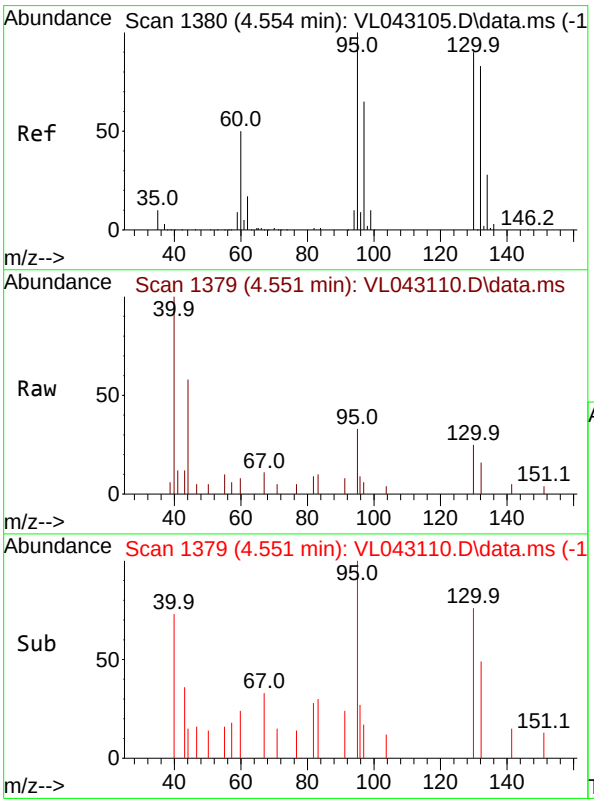
Ion	Ratio	Lower	Upper
117	100		
119	55.4	74.1	111.1#
121	17.9	22.2	33.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

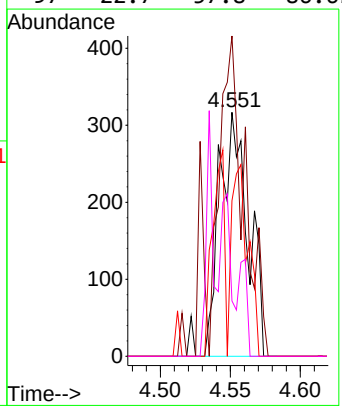
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

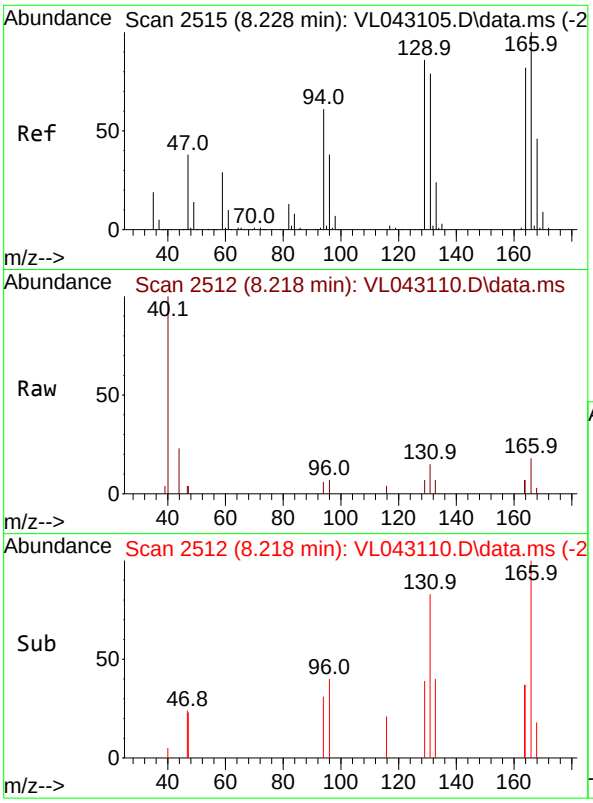


#38
Trichloroethene
Concen: 0.035 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:130 Resp: 454

Ion	Ratio	Lower	Upper
130	100		
95	131.2	88.6	133.0
132	63.7	73.4	110.0#
97	22.7	57.8	86.6#

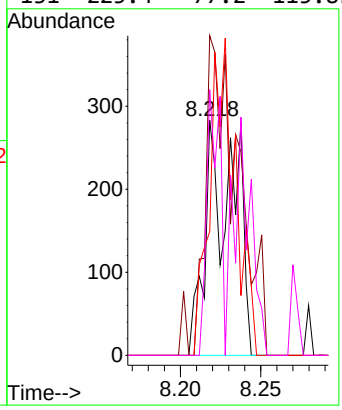




#52
Tetrachloroethene
Concen: 0.031 ppbv m
RT: 8.218 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:164 Resp: 34

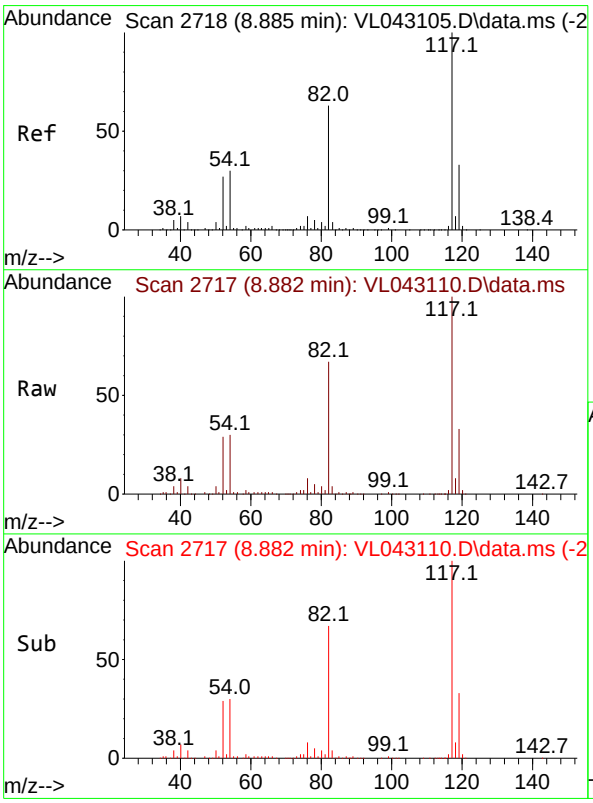
Ion	Ratio	Lower	Upper
164	100		
166	271.1	97.6	146.4#
129	104.9	84.5	126.7
131	225.4	77.2	115.8#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

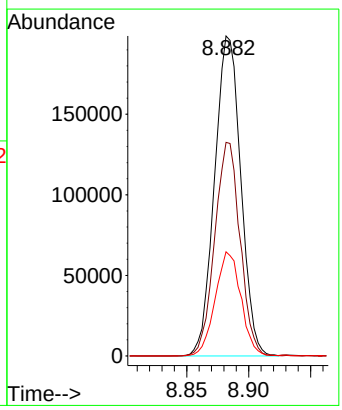
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

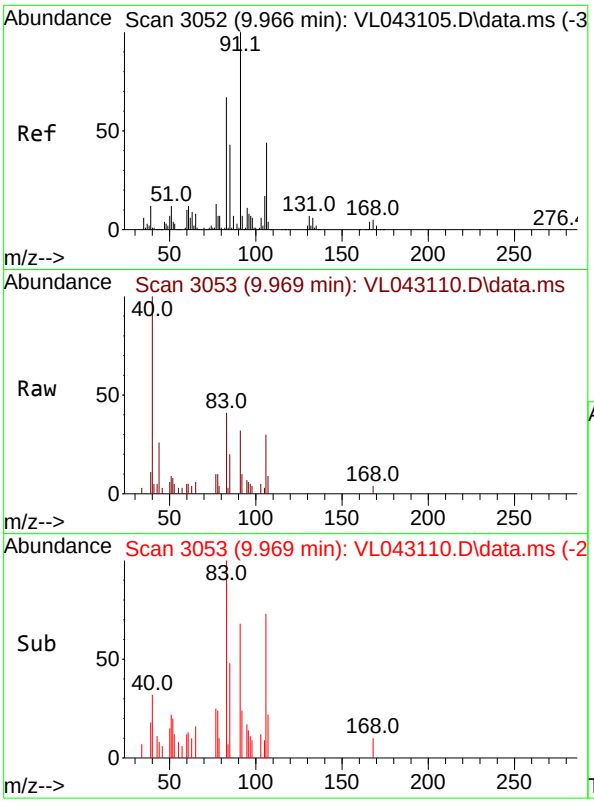


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:117 Resp: 292884

Ion	Ratio	Lower	Upper
117	100		
82	64.7	53.8	80.8
119	32.1	25.4	38.0

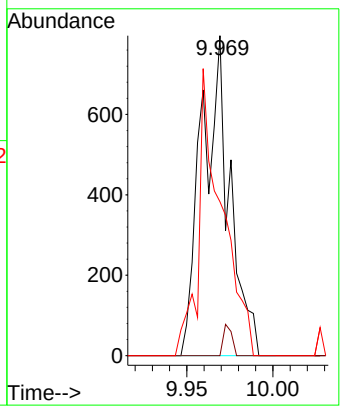




#63
1,1,2,2-Tetrachloroethane
Concen: 0.034 ppbv m
RT: 9.969 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 83 Resp: 90

Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.3#
85	74.1	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
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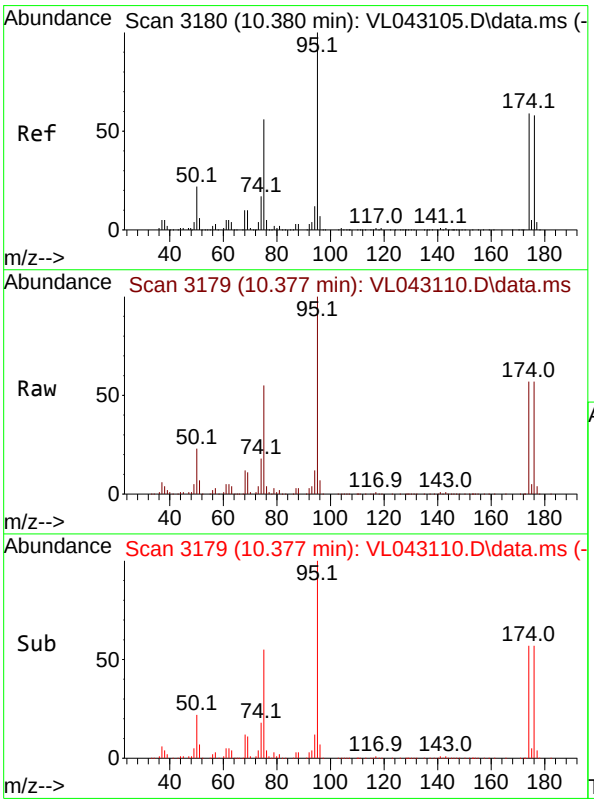
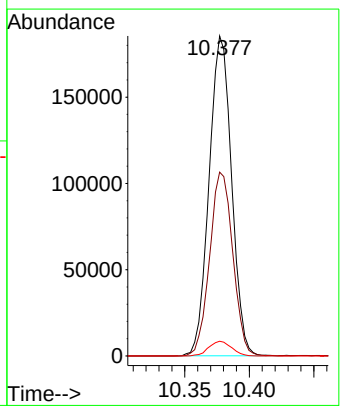
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.841 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 95 Resp: 224043

Ion	Ratio	Lower	Upper
95	100		
174	59.2	48.3	72.5
175	4.7	3.8	5.8



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043111.D
Acq On : 14 Oct 2025 14:18
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:55:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	100858	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	321665	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	292542	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	233522	10.270	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	193353	13.485	ppbv	98
3) Chlorodifluoromethane	1.476	51	205650	13.255	ppbv	98
4) Chloromethane	1.534	50	72111	12.695	ppbv	98
5) Vinyl Chloride	1.583	62	69909	12.548	ppbv	99
6) Bromomethane	1.670	94	39756	13.013	ppbv	98
7) Chloroethane	1.706	64	27709	12.164	ppbv	95
8) Dichlorotetrafluoroethane	1.557	85	156753	13.526	ppbv	100
9) Propene	1.486	41	88451	12.854	ppbv	98
10) Heptane	4.985	43	249682	12.658	ppbv	99
11) Trichlorofluoromethane	1.881	101	191307	13.640	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	150640	13.341	ppbv	98
13) Ethanol	1.722	45	25828	10.148	ppbv	98
14) Bromoethene	1.784	108	54818	13.068	ppbv	99
15) Acetone	1.835	43	160069	11.710	ppbv	100
16) 1,3-Butadiene	1.612	39	80403	12.411	ppbv	98
17) tert-Butyl alcohol	2.039	59	237633	12.735	ppbv	99
18) 1,1-Dichloroethene	2.036	96	65634	13.333	ppbv	98
19) Isopropyl Alcohol	1.887	45	102035	12.051	ppbv	98
20) Methylene Chloride	2.065	84	60549	11.268	ppbv	90
21) Allyl Chloride	2.097	41	131539	13.105	ppbv	95
22) trans-1,2-Dichloroethene	2.343	96	76780	13.048	ppbv	97
23) Vinyl Acetate	2.463	43	288274	14.476	ppbv	98
24) 1,1-Dichloroethane	2.411	63	152663	13.428	ppbv	99
25) Ethyl Acetate	2.835	43	434350	12.884	ppbv	100
26) Hexane	2.829	57	199384	12.836	ppbv	98
27) Carbon Disulfide	2.152	76	192452	13.522	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	96464	13.650	ppbv	94
29) Chloroform	2.852	83	302154	13.425	ppbv	98
30) Cyclohexane	3.858	84	177947	13.133	ppbv	95
31) cis-1,2-Dichloroethene	2.722	61	203888	13.745	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	316442	13.500	ppbv	99
34) 2-Butanone	2.557	43	283134	13.020	ppbv	99
35) Carbon Tetrachloride	3.764	117	325078	14.056	ppbv	98
36) Benzene	3.661	78	415823	13.725	ppbv	99
37) 1,2-Dichloroethane	3.221	62	241983	13.865	ppbv	98
38) Trichloroethene	4.551	130	159136	12.590	ppbv	97
39) 1,2-Dichloropropane	4.318	63	147155	13.274	ppbv	95
40) 1,4-Dioxane	4.580	88	65323	13.180	ppbv #	94
41) Tetrahydrofuran	3.052	42	160247	13.200	ppbv	99
42) Bromodichloromethane	4.493	83	343817	14.234	ppbv	99
43) Methyl Methacrylate	4.881	69	210756	13.633	ppbv	98
44) 2,2,4-Trimethylpentane	4.645	57	675770	13.340	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	218386	14.142	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043111.D
Acq On : 14 Oct 2025 14:18
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:55:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	258355	14.018	ppbv		98
47) 1,1,2-Trichloroethane	6.583	97	163113	13.638	ppbv		94
48) Dibromochloromethane	7.393	129	280993	14.051	ppbv		100
49) Bromoform	9.487	173	230561	14.184	ppbv		100
50) 4-Methyl-2-Pentanone	5.748	43	401849	13.396	ppbv		100
51) 2-Hexanone	7.435	43	317288	14.176	ppbv	#	99
52) Tetrachloroethene	8.231	164	143954	13.177	ppbv		98
53) Toluene	6.936	91	483870	13.457	ppbv		100
54) 1,2-Dibromoethane	7.655	107	254024	13.461	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.927	131	250303	13.573	ppbv		99
57) Chlorobenzene	8.927	112	355301	12.983	ppbv		98
58) Ethyl Benzene	9.357	91	676918	13.375	ppbv		97
59) m/p-Xylene	9.555	91	1061952m	26.498	ppbv		
60) o-Xylene	9.966	91	516660	13.063	ppbv		99
61) Styrene	9.875	104	247585	13.867	ppbv		99
62) Isopropylbenzene	10.542	105	931508	13.034	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	331423	12.515	ppbv		100
64) n-propylbenzene	10.992	120	241719	12.775	ppbv		96
65) tert-Butylbenzene	11.532	119	788234	12.490	ppbv		97
66) Benzyl Chloride	11.620	91	97114	13.778	ppbv		99
67) sec-Butylbenzene	11.769	105	1125489	12.566	ppbv		99
69) p-Isopropyltoluene	11.930	119	959206	12.602	ppbv		99
70) n-Butylbenzene	12.283	91	973466	12.979	ppbv		100
71) 2-Chlorotoluene	10.904	91	721827	13.242	ppbv		98
72) 4-Ethyltoluene	11.128	105	647315	13.310	ppbv		99
73) 1,3,5-Trimethylbenzene	11.205	105	534006	13.314	ppbv		98
74) 1,2,4-Trimethylbenzene	11.542	105	560932	12.498	ppbv	#	86
75) 1,3-Dichlorobenzene	11.610	146	339203	13.031	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	341936	13.027	ppbv		99
77) 1,2-Dichlorobenzene	11.950	146	318800	12.660	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	226294	11.606	ppbv		99
79) Naphthalene	13.516	128	661098	14.260	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	212784	17.384	ppbv		98
81) 1,2,4-Trichlorobenzene	13.442	180	266712	13.698	ppbv		100

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043111.D
Acq On : 14 Oct 2025 14:18
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 01:55:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

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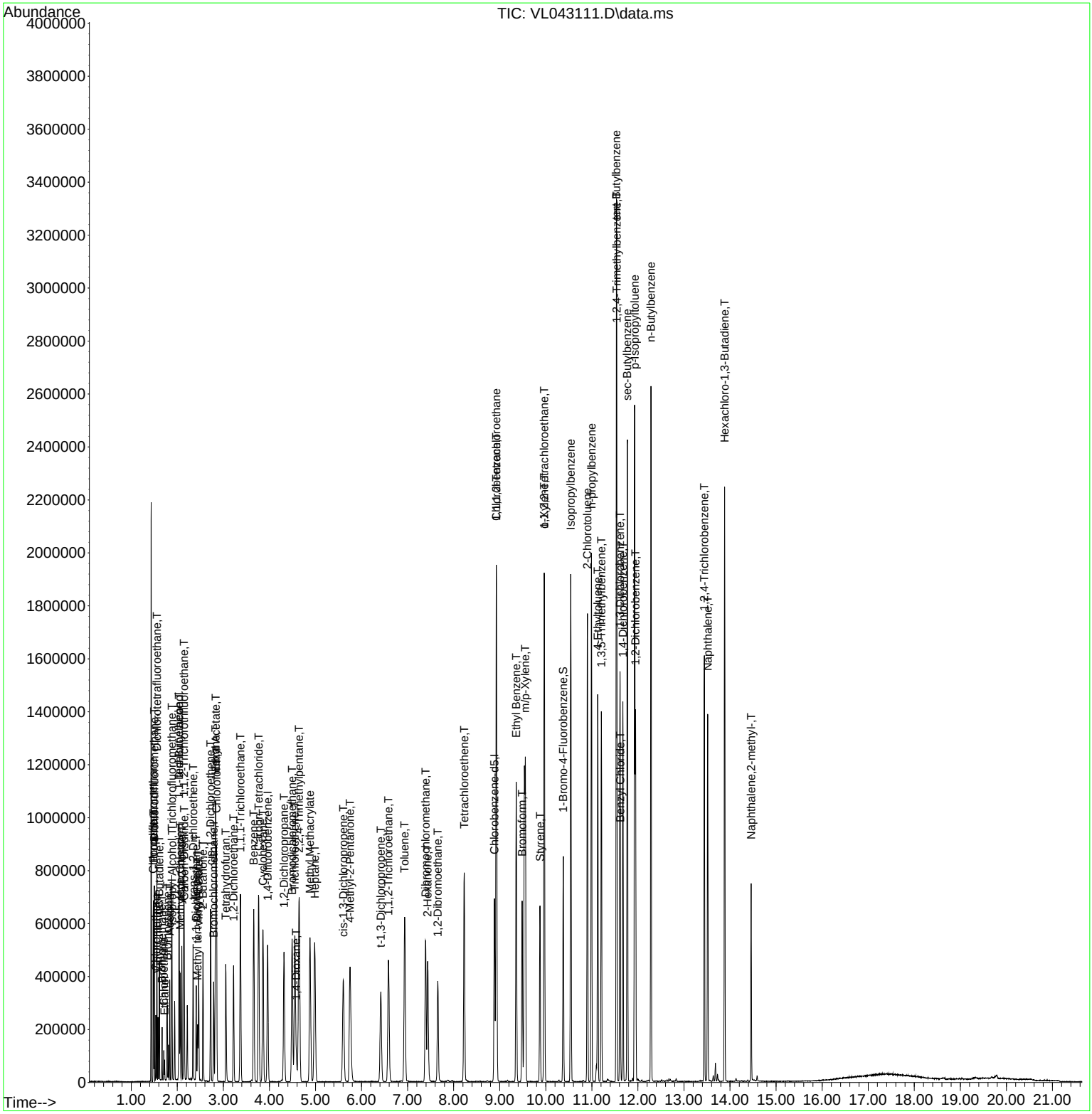
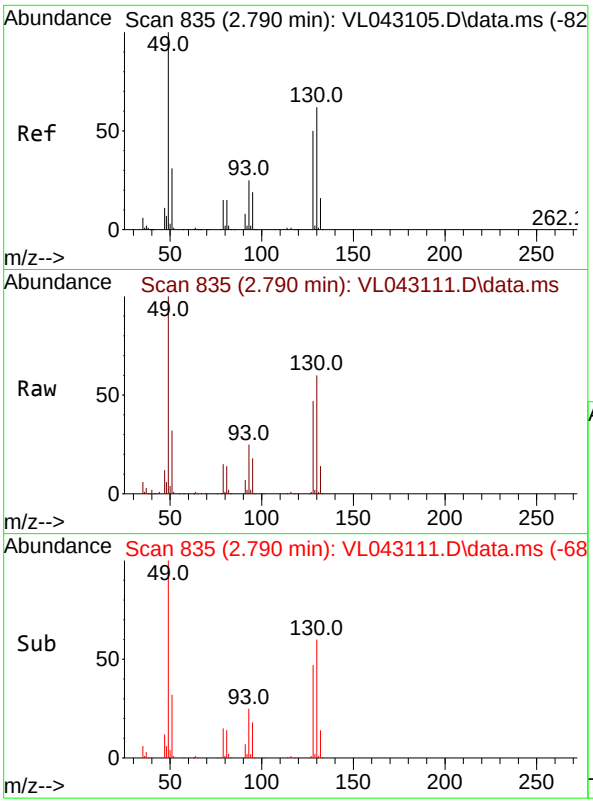
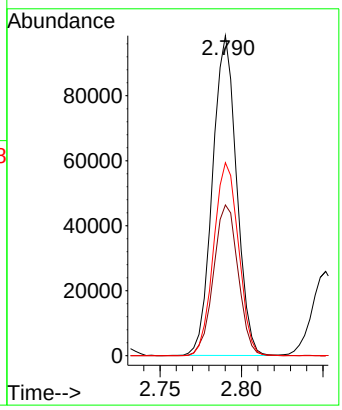




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 49 Resp: 10085

Ion	Ratio	Lower	Upper
49	100		
128	48.4	24.4	73.4
130	62.4	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

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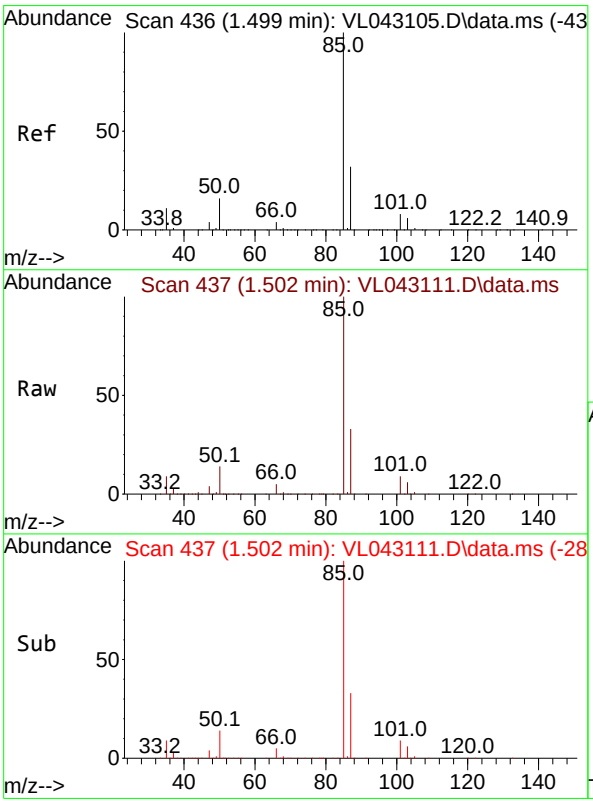
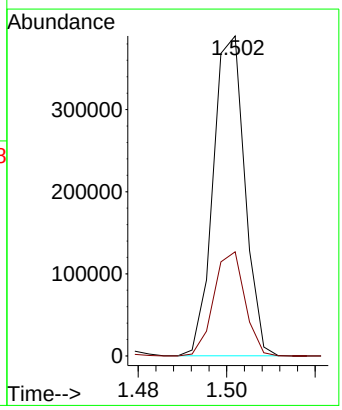
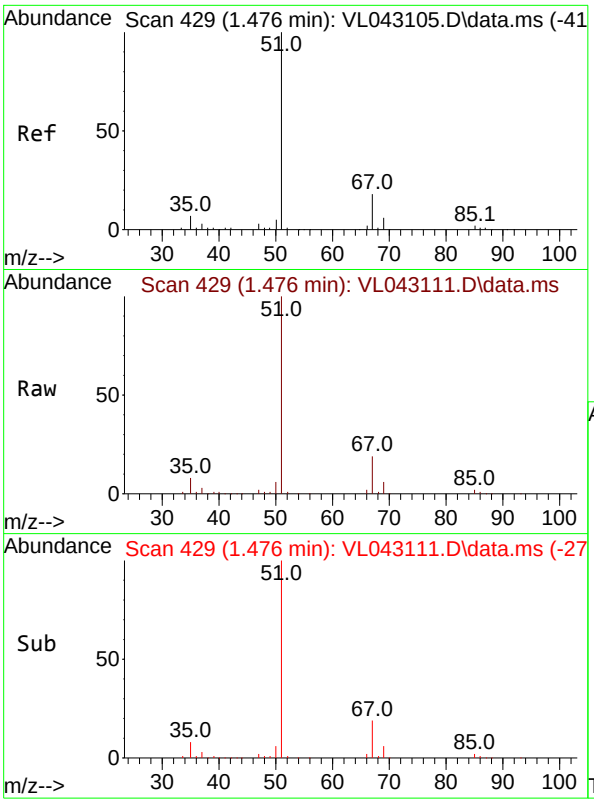


#2
Dichlorodifluoromethane
Concen: 13.485 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 193353

Ion	Ratio	Lower	Upper
85	100		
87	32.6	25.3	37.9

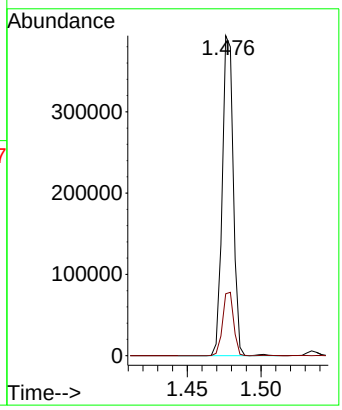




#3
Chlorodifluoromethane
Concen: 13.255 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 51 Resp: 20565

Ion	Ratio	Lower	Upper
51	100		
67	20.0	15.1	22.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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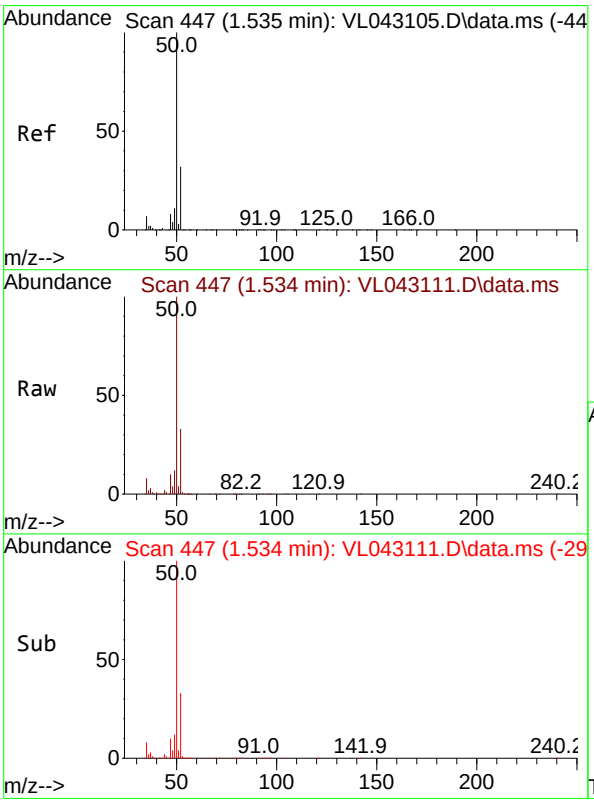
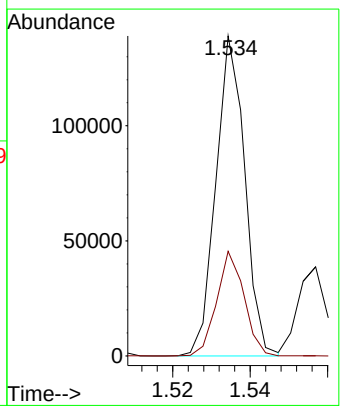
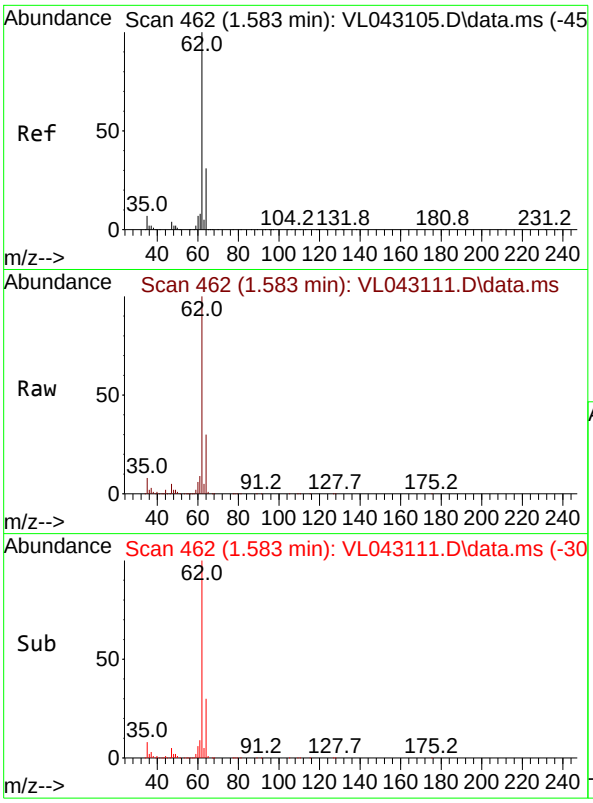


#4
Chloromethane
Concen: 12.695 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 50 Resp: 72111

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.2	37.8

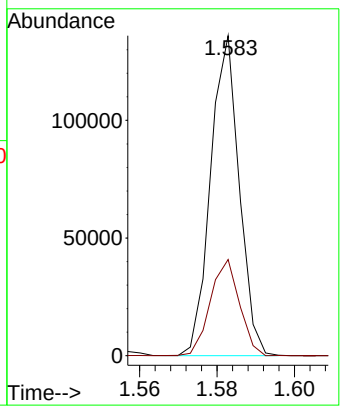




#5
Vinyl Chloride
Concen: 12.548 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 62 Resp: 6990

Ion	Ratio	Lower	Upper
62	100		
64	30.0	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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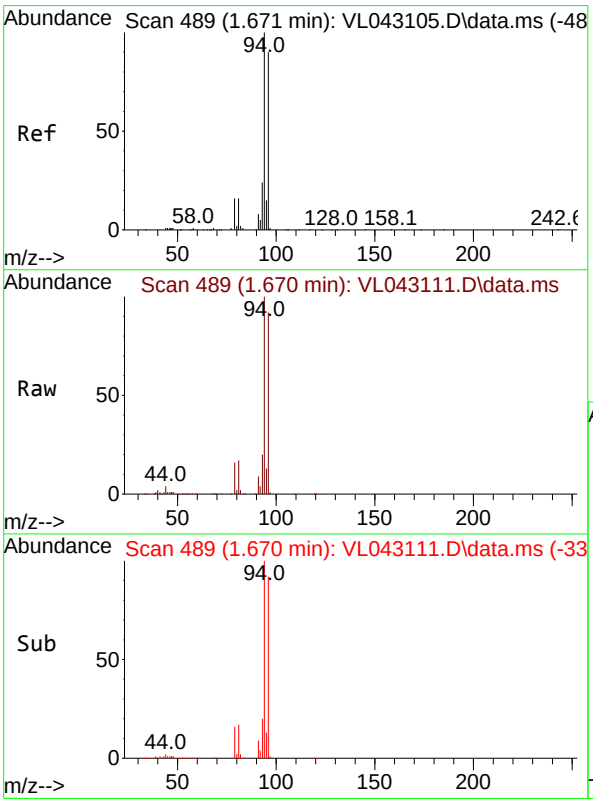
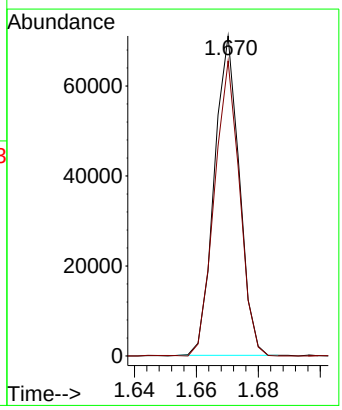
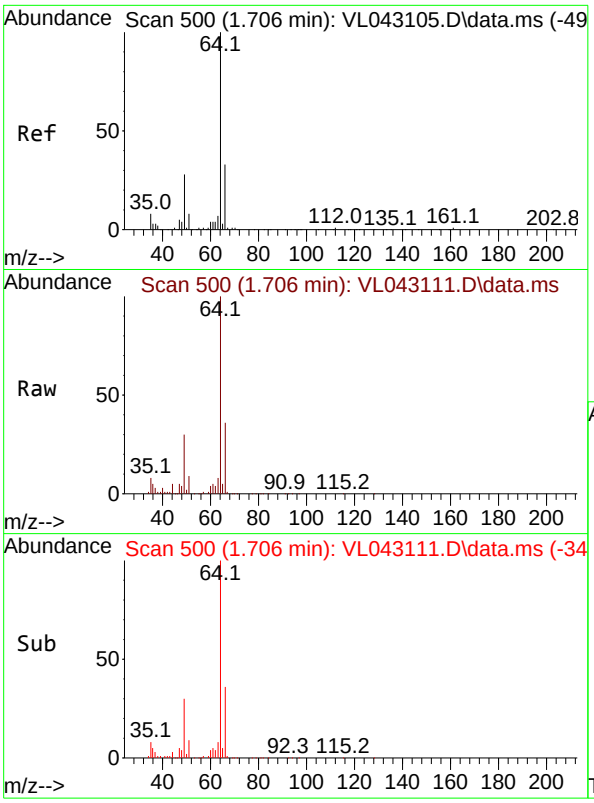


#6
Bromomethane
Concen: 13.013 ppbv
RT: 1.670 min Scan# 489
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 94 Resp: 39756

Ion	Ratio	Lower	Upper
94	100		
96	92.4	72.2	108.4

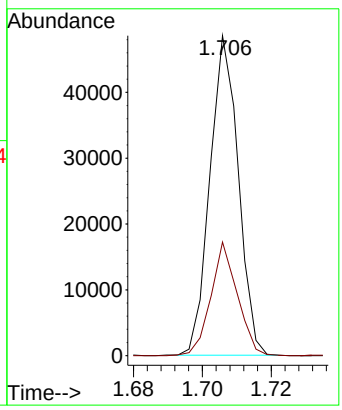




#7
Chloroethane
Concen: 12.164 ppbv
RT: 1.706 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 64 Resp: 2770

Ion	Ratio	Lower	Upper
64	100		
66	35.5	26.0	39.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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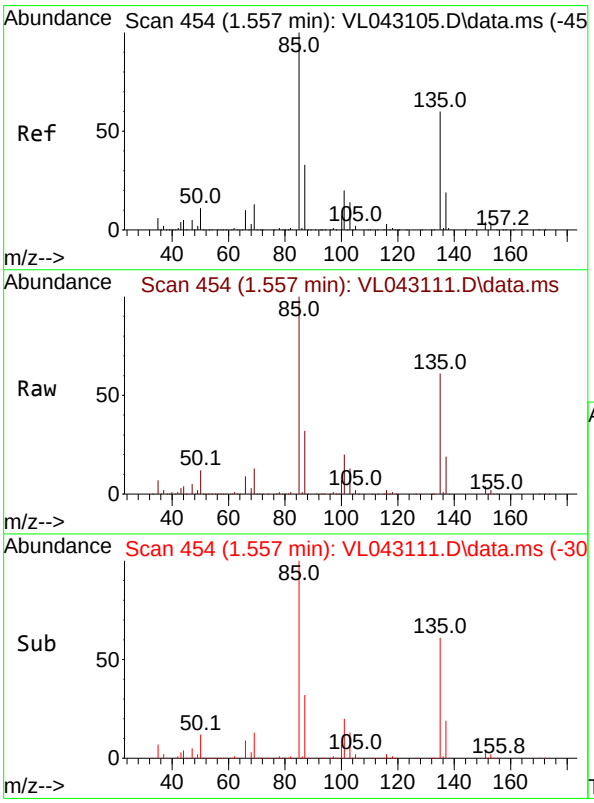
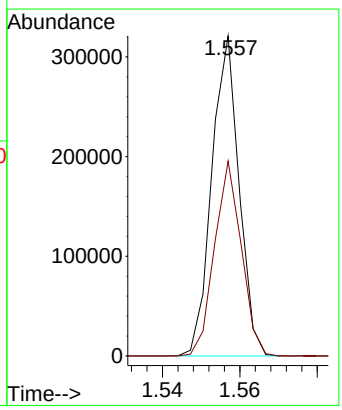
Supervised By :Mahesh Dadoda 10/16/2025

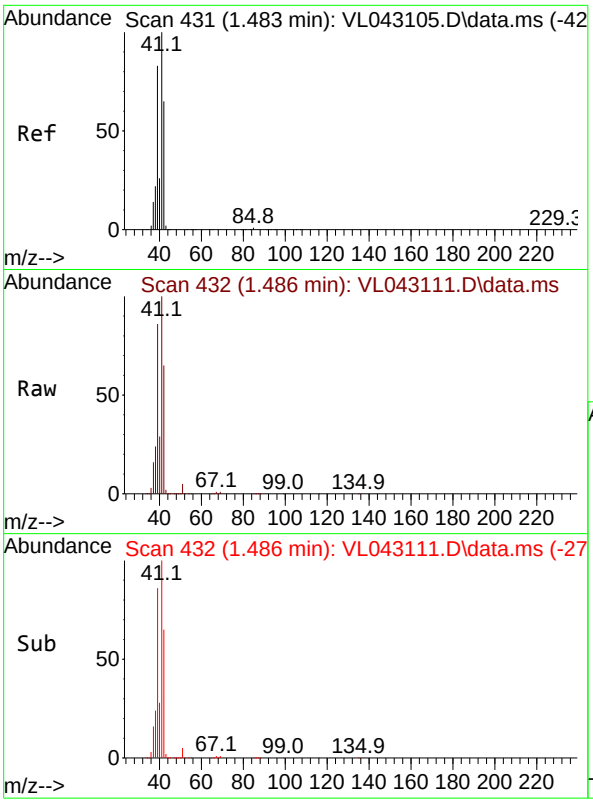


#8
Dichlorotetrafluoroethane
Concen: 13.526 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 156753

Ion	Ratio	Lower	Upper
85	100		
135	60.1	48.2	72.4

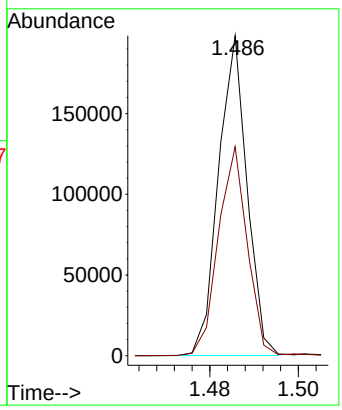




#9
Propene
Concen: 12.854 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 41 Resp: 8845

Ion	Ratio	Lower	Upper
41	100		
42	67.2	55.1	82.7



Instrument :
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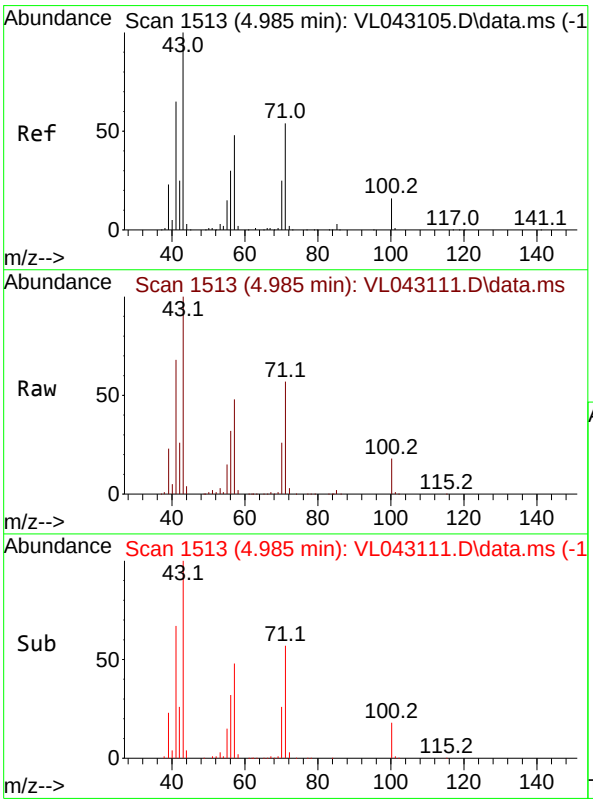
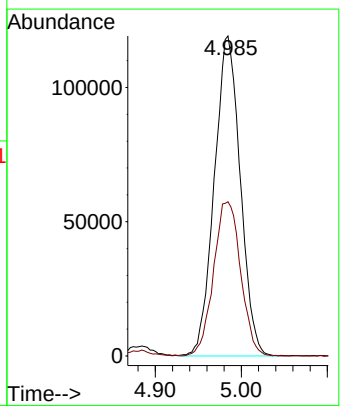
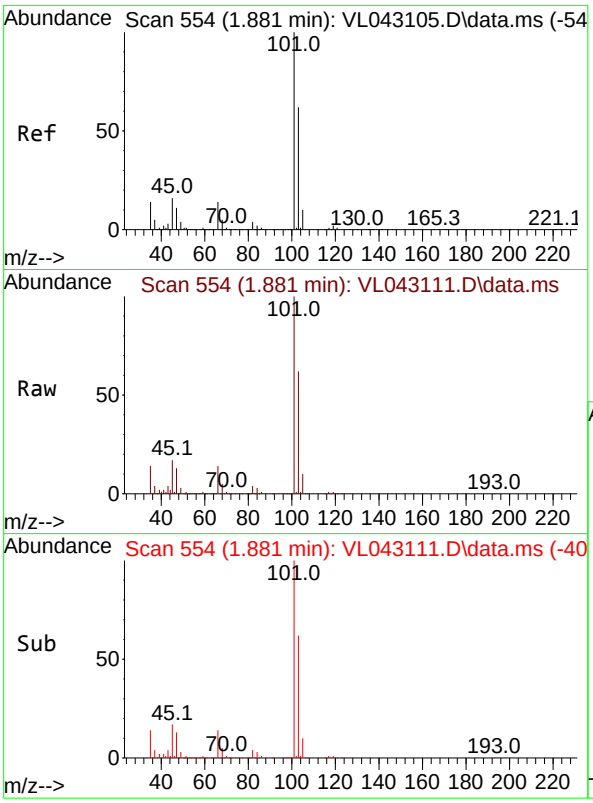


#10
Heptane
Concen: 12.658 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 249682

Ion	Ratio	Lower	Upper
43	100		
57	50.3	40.8	61.2

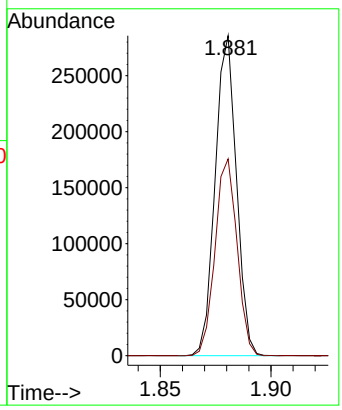




#11
Trichlorofluoromethane
Concen: 13.640 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:101 Resp: 19130

Ion	Ratio	Lower	Upper
101	100		
103	61.5	49.3	73.9



Instrument :
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ClientSampleId :
VSTDICC015

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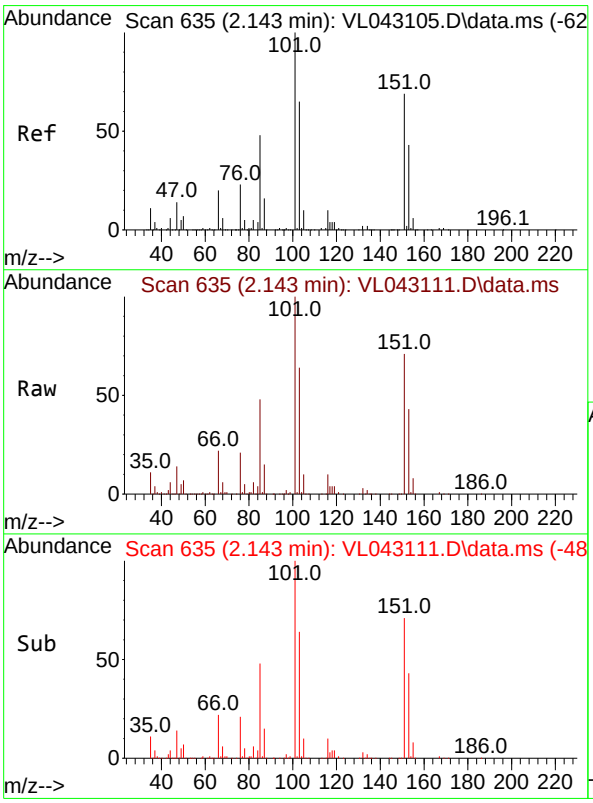
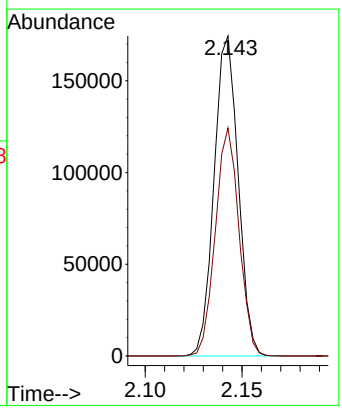
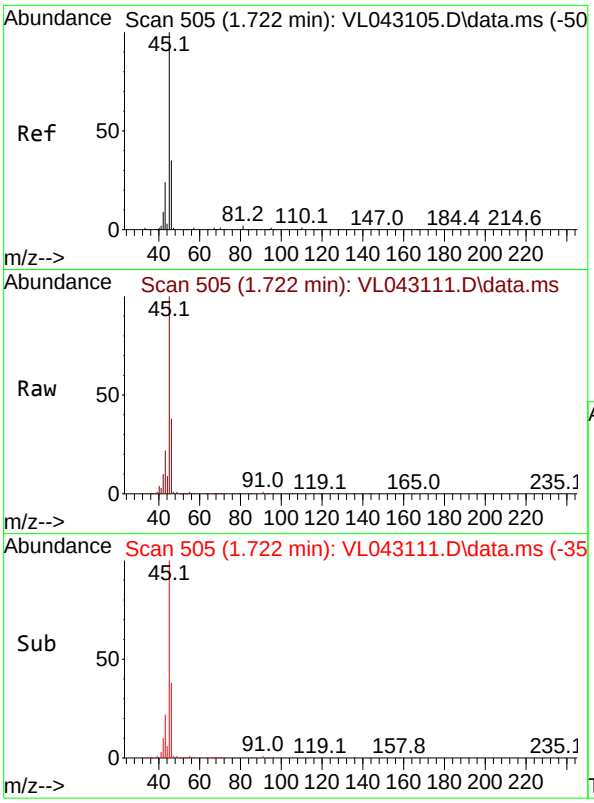


#12
1,1,2-Trichlorotrifluoroethane
Concen: 13.341 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:101 Resp: 150640

Ion	Ratio	Lower	Upper
101	100		
151	70.0	54.7	82.1

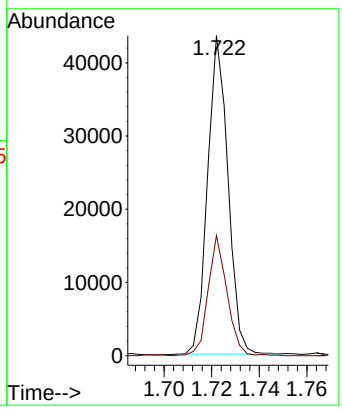




#13
Ethanol
Concen: 10.148 ppbv
RT: 1.722 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 45 Resp: 2582

Ion	Ratio	Lower	Upper
45	100		
46	35.5	14.7	58.9



Instrument :
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ClientSampleId :
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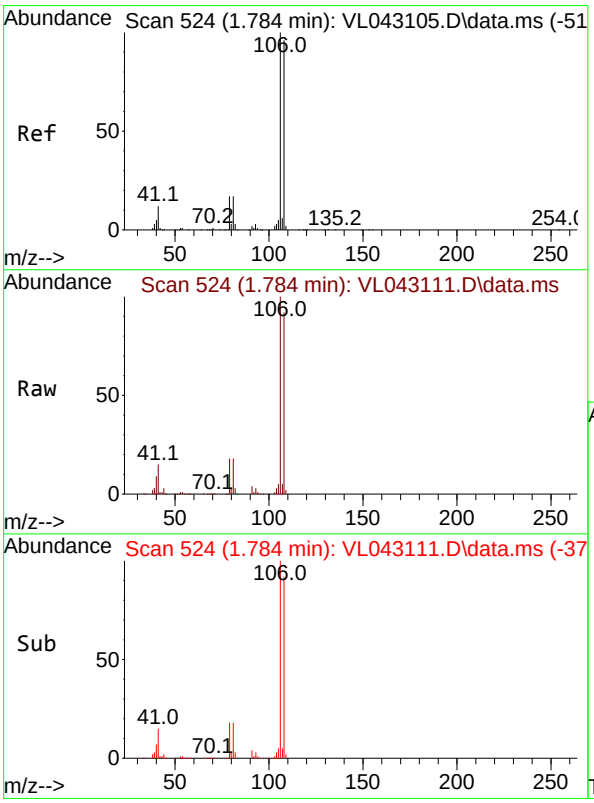
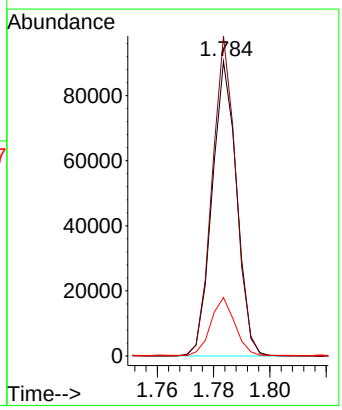
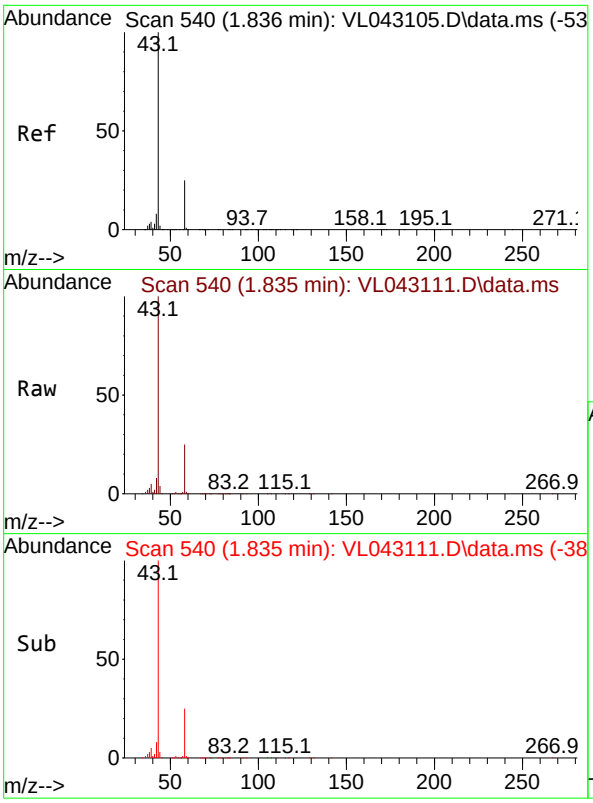


#14
Bromoethene
Concen: 13.068 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:108 Resp: 54818

Ion	Ratio	Lower	Upper
108	100		
106	104.9	84.4	126.6
79	20.2	15.3	22.9

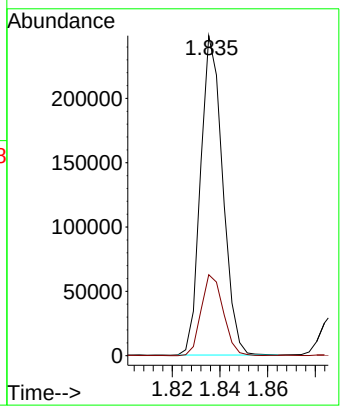




#15
Acetone
Concen: 11.710 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 16006

Ion	Ratio	Lower	Upper
43	100		
58	26.0	20.8	31.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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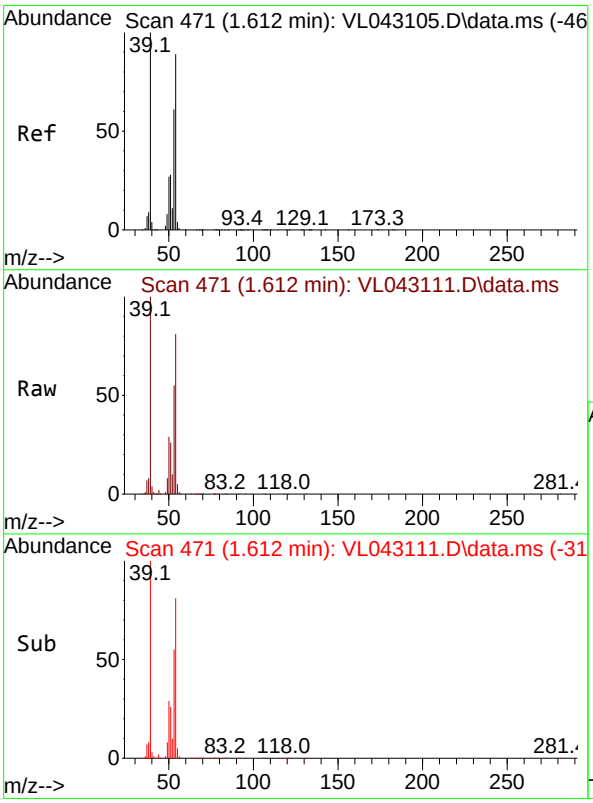
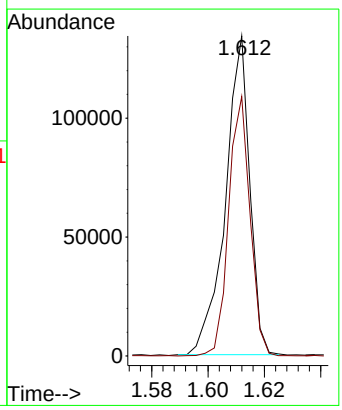
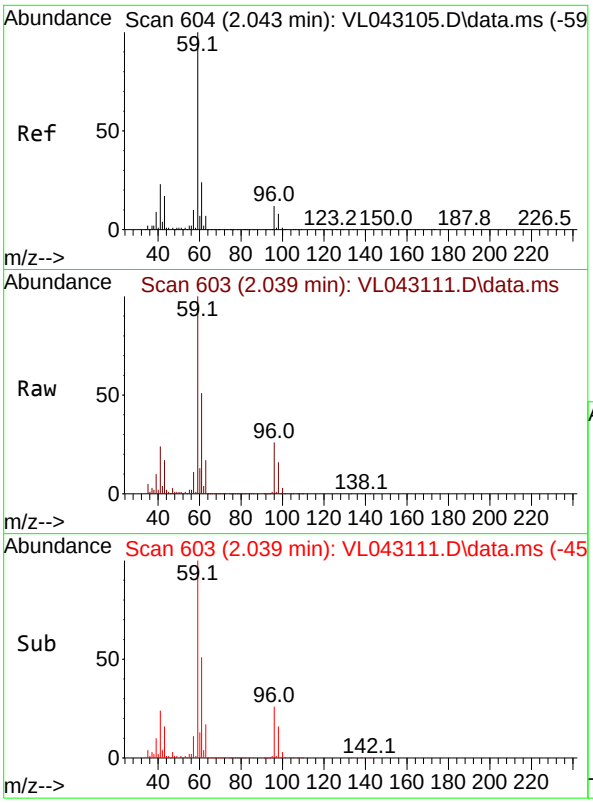


#16
1,3-Butadiene
Concen: 12.411 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 39 Resp: 80403

Ion	Ratio	Lower	Upper
39	100		
54	71.8	59.0	88.4

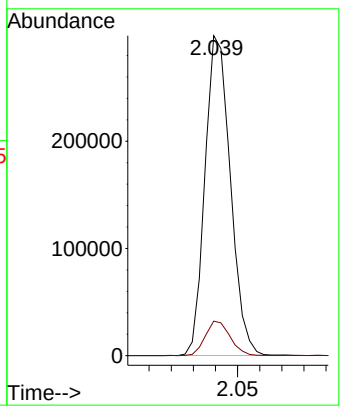




#17
tert-Butyl alcohol
Concen: 12.735 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 59 Resp: 23763

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.2	12.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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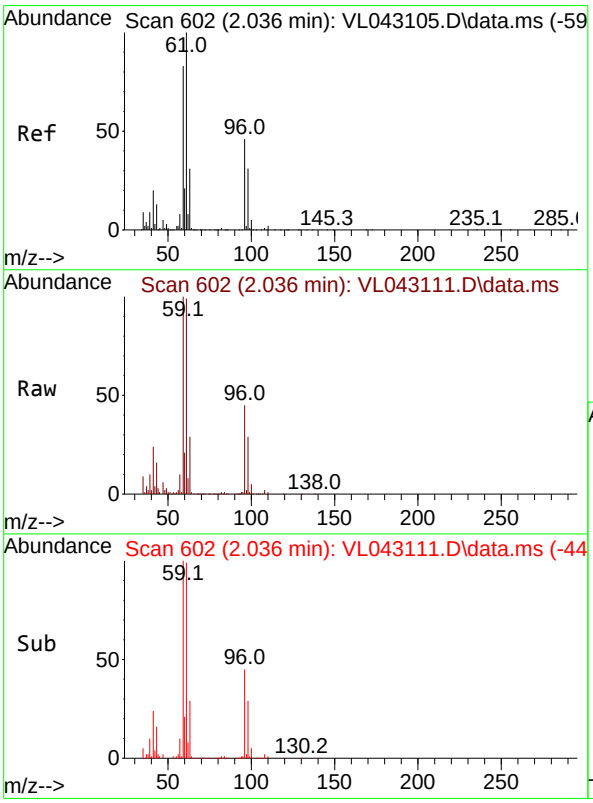
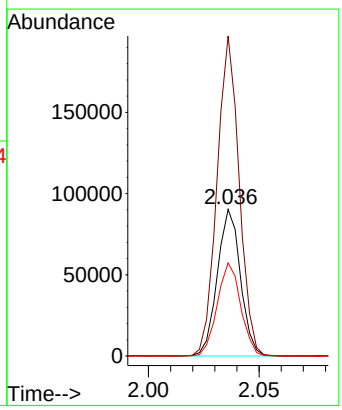
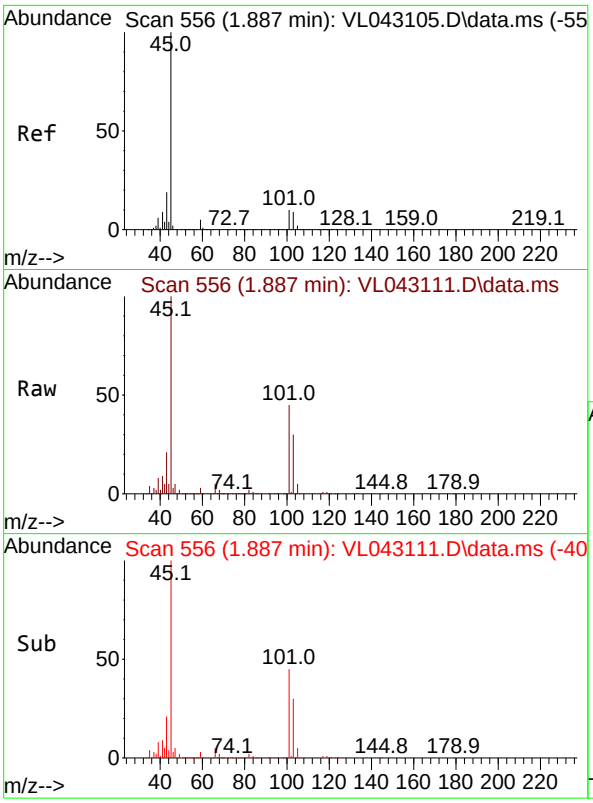


#18
1,1-Dichloroethene
Concen: 13.333 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 96 Resp: 65634

Ion	Ratio	Lower	Upper
96	100		
61	218.2	173.4	260.0
98	63.5	53.2	79.8

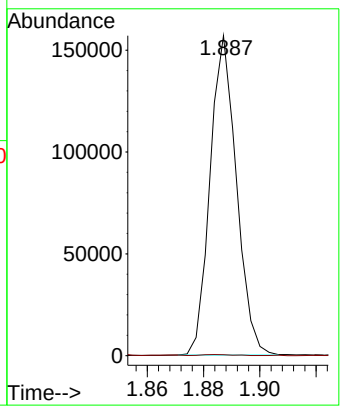




#19
Isopropyl Alcohol
Concen: 12.051 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 45 Resp: 10203

Ion	Ratio	Lower	Upper
45	100		
58	40.2	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
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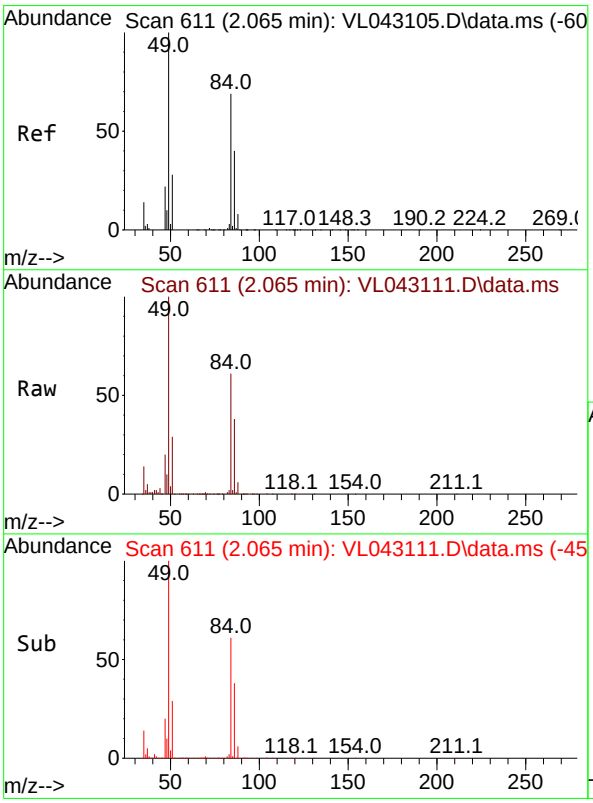
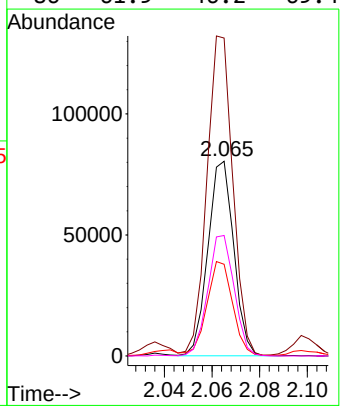
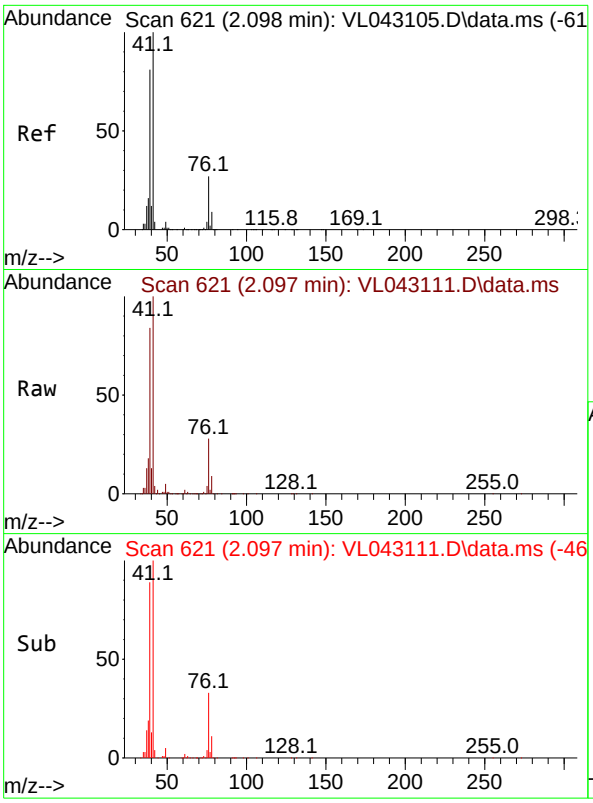


#20
Methylene Chloride
Concen: 11.268 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 84 Resp: 60549

Ion	Ratio	Lower	Upper
84	100		
49	162.4	116.6	175.0
51	46.6	34.8	52.2
86	61.9	46.2	69.4





#21
Allyl Chloride
Concen: 13.105 ppbv
RT: 2.097 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 41 Resp: 13153

Ion	Ratio	Lower	Upper
41	100		
76	28.8	21.5	32.3
39	80.9	60.8	91.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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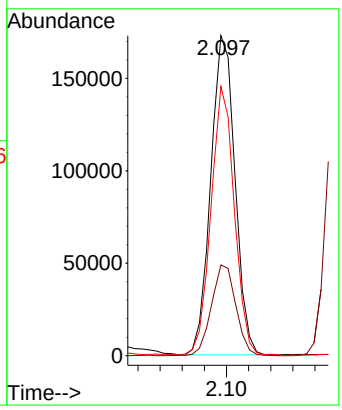
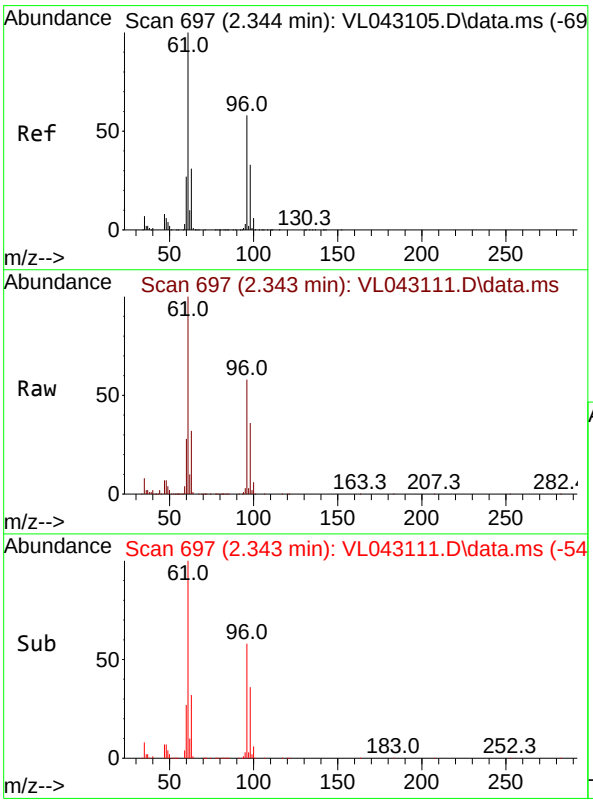
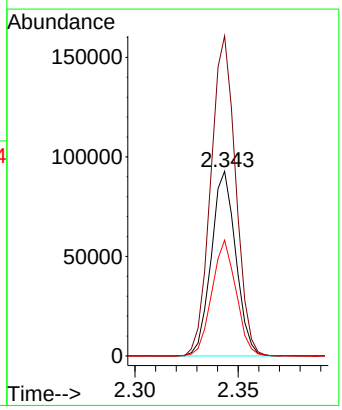


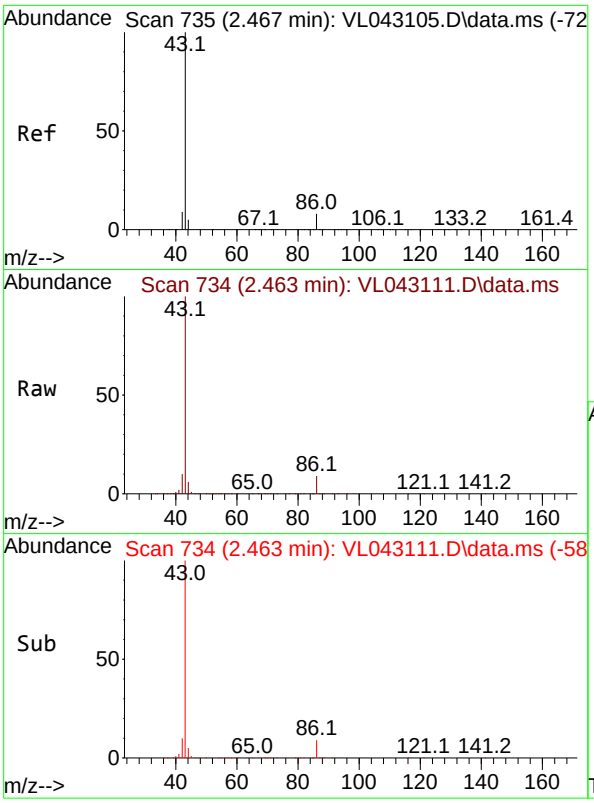


#22
trans-1,2-Dichloroethene
Concen: 13.048 ppbv
RT: 2.343 min Scan# 697
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 96 Resp: 76780

Ion	Ratio	Lower	Upper
96	100		
61	173.2	137.0	205.6
98	62.8	45.5	68.3

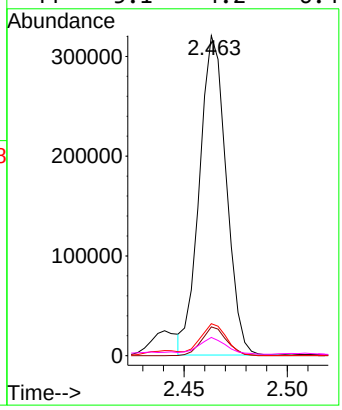




#23
Vinyl Acetate
Concen: 14.476 ppbv
RT: 2.463 min Scan# 7
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 28827

Ion	Ratio	Lower	Upper
43	100		
86	9.0	6.2	9.2
42	10.0	7.6	11.4
44	5.1	4.2	6.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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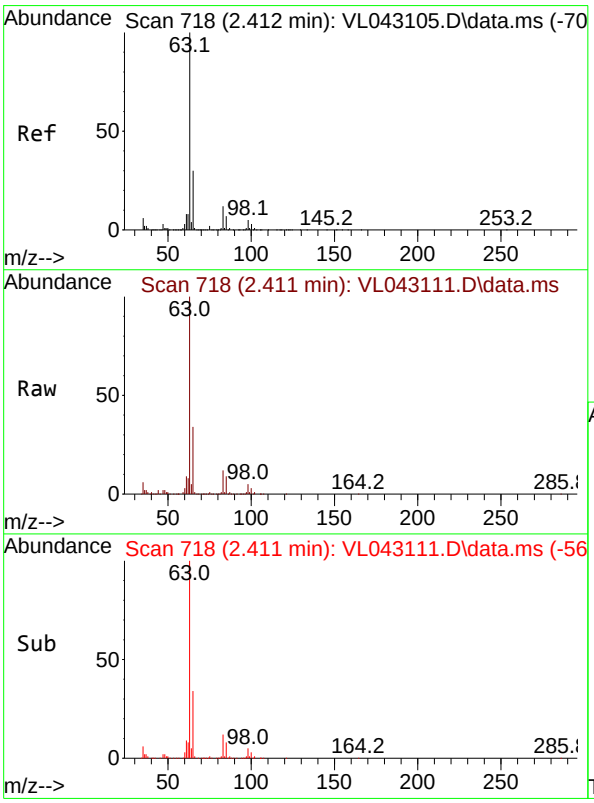
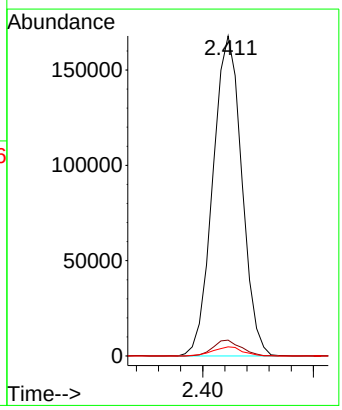
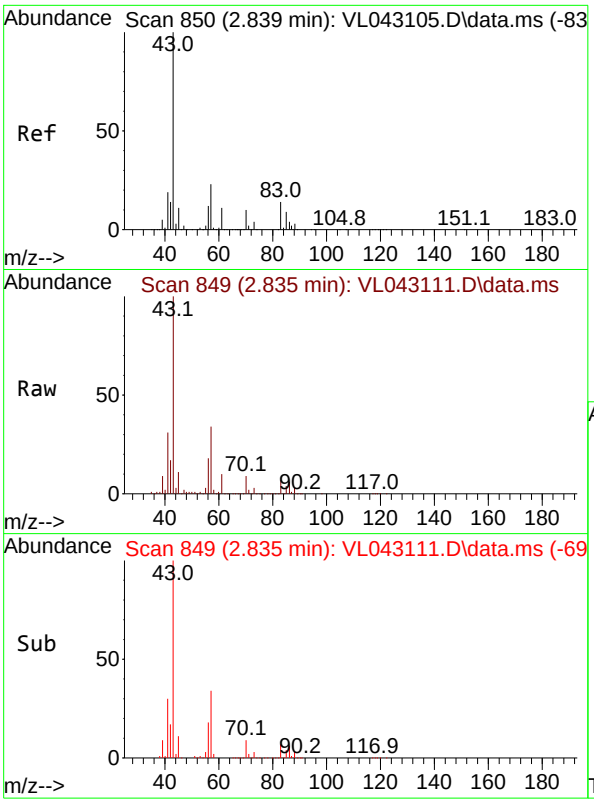


#24
1,1-Dichloroethane
Concen: 13.428 ppbv
RT: 2.411 min Scan# 718
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 63 Resp: 152663

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.6	7.8
100	2.8	1.5	4.4

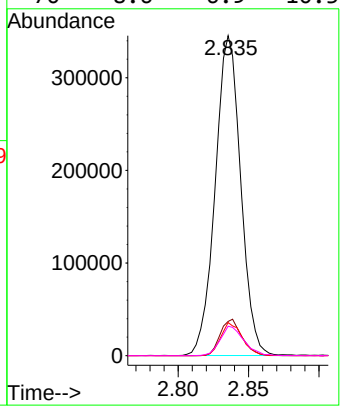




#25
Ethyl Acetate
Concen: 12.884 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 43435

Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	8.9	7.0	10.6
70	8.6	6.9	10.3



Instrument :
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ClientSampleId :
VSTDICC015

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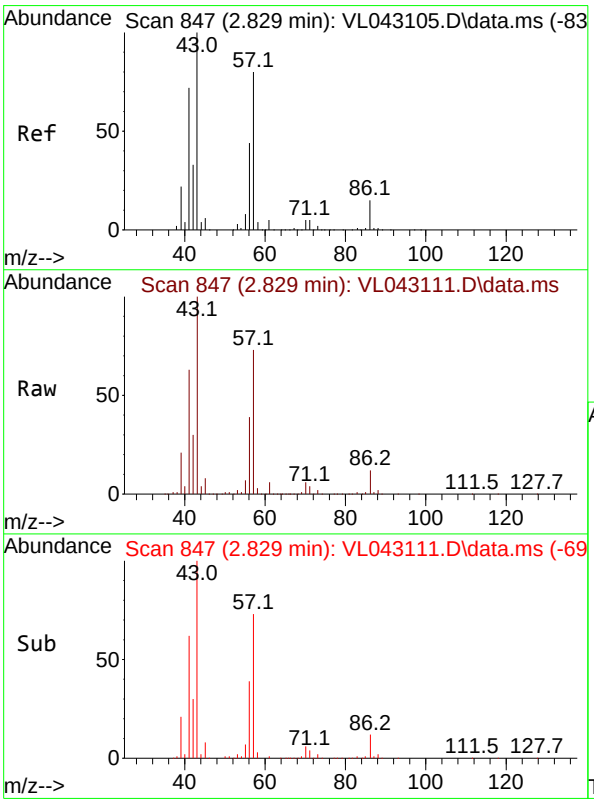
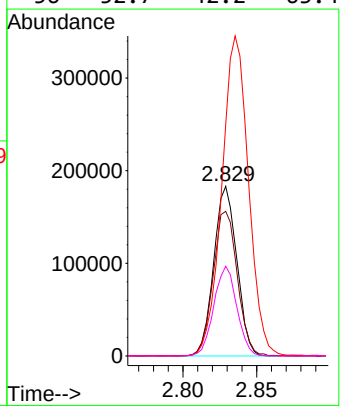
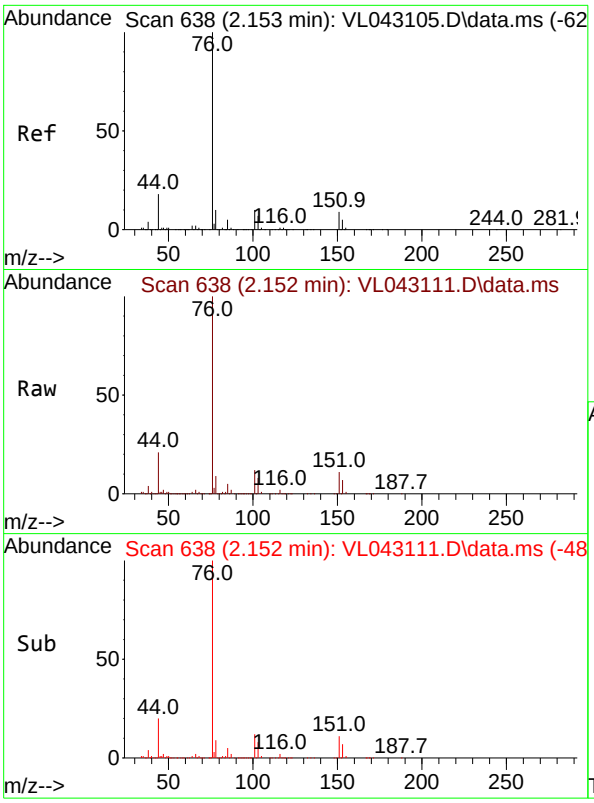


#26
Hexane
Concen: 12.836 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 199384

Ion	Ratio	Lower	Upper
57	100		
41	89.9	71.4	107.0
43	218.2	178.5	267.7
56	52.7	42.2	63.4





#27
Carbon Disulfide
Concen: 13.522 ppbv
RT: 2.152 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 76 Resp: 19245

Ion	Ratio	Lower	Upper
76	100		
44	20.6	16.7	25.1
78	11.6	9.3	13.9

Instrument :
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ClientSampleId :
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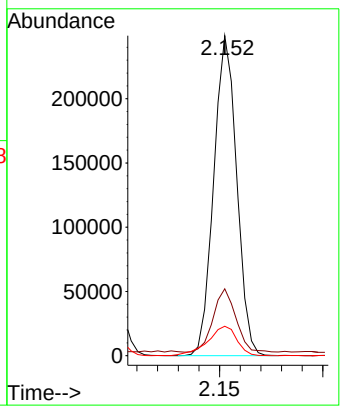
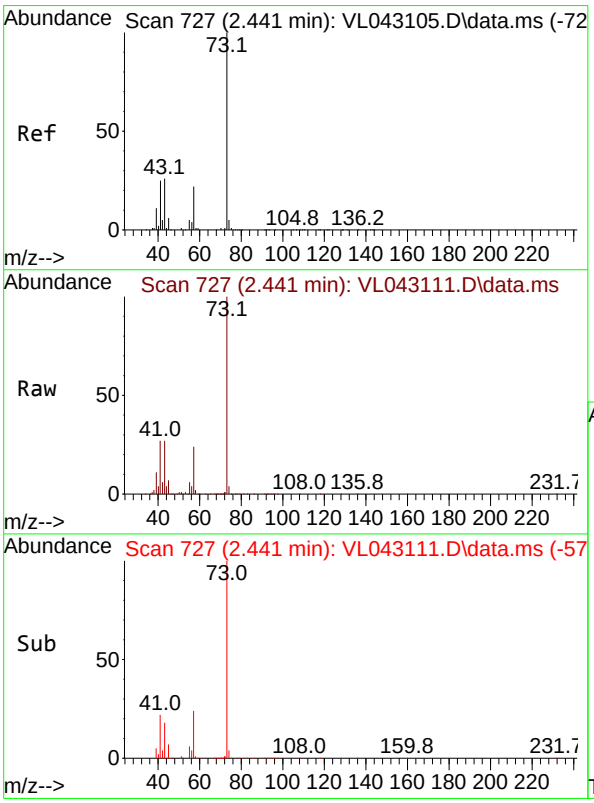
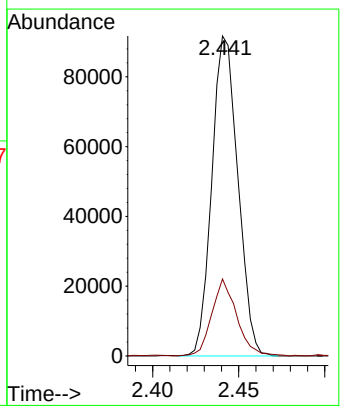


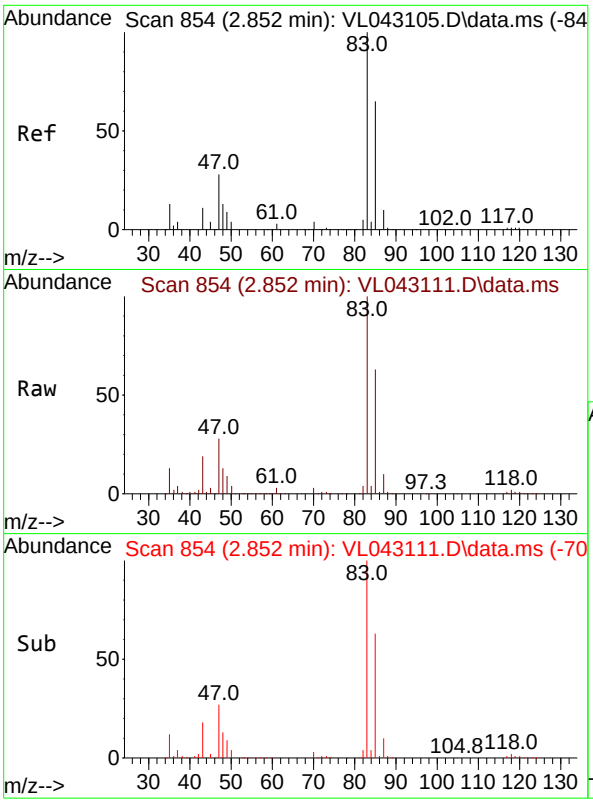


#28
Methyl tert-Butyl Ether
Concen: 13.650 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 73 Resp: 96464

Ion	Ratio	Lower	Upper
73	100		
57	22.7	20.5	30.7





#29
Chloroform
Concen: 13.425 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 83 Resp: 30215

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.6

Instrument :
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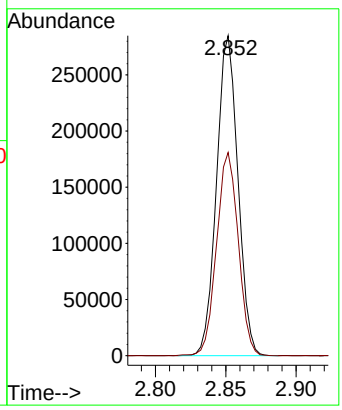
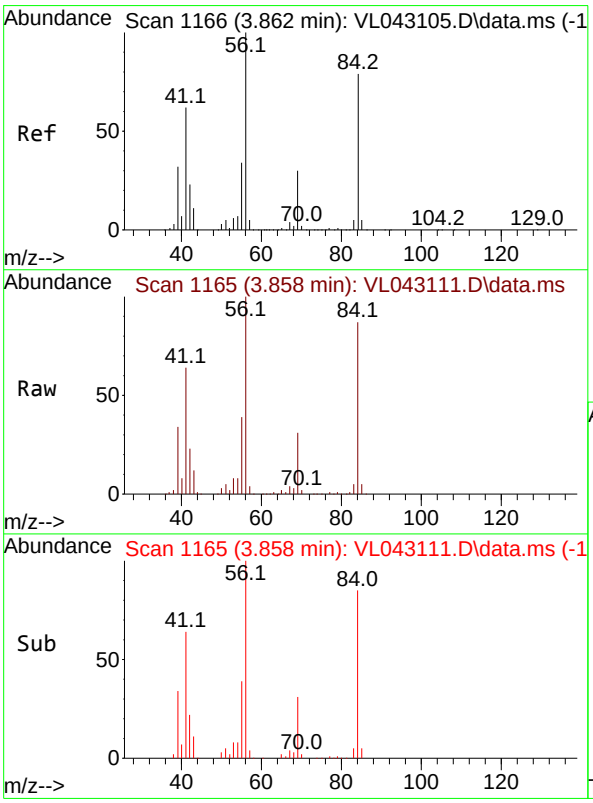
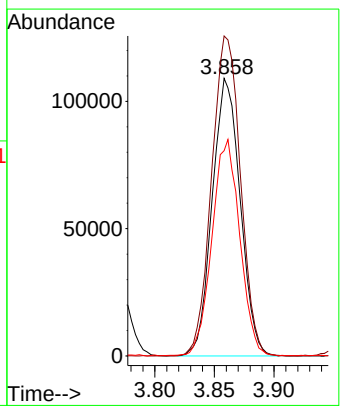


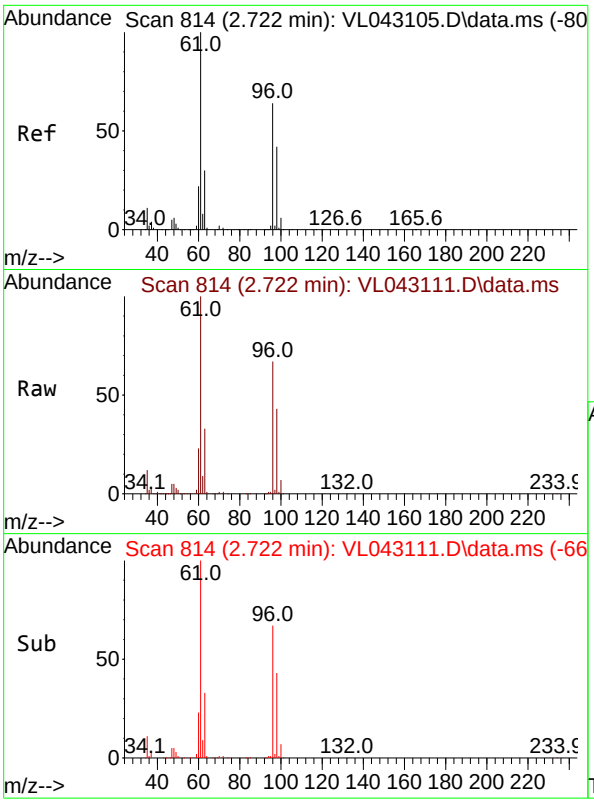


#30
Cyclohexane
Concen: 13.133 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 84 Resp: 177947

Ion	Ratio	Lower	Upper
84	100		
56	119.1	100.9	151.3
41	77.3	63.8	95.6

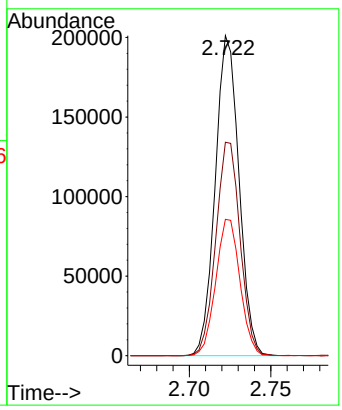




#31
cis-1,2-Dichloroethene
Concen: 13.745 ppbv
RT: 2.722 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 61 Resp: 20388

Ion	Ratio	Lower	Upper
61	100		
96	66.7	51.0	76.6
98	42.6	33.5	50.3



Instrument :
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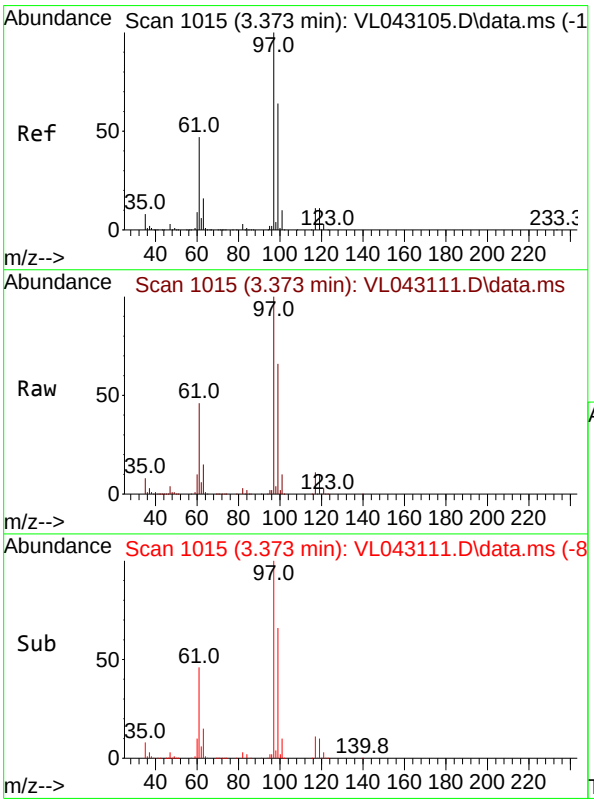
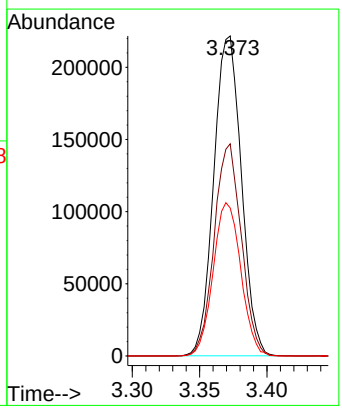
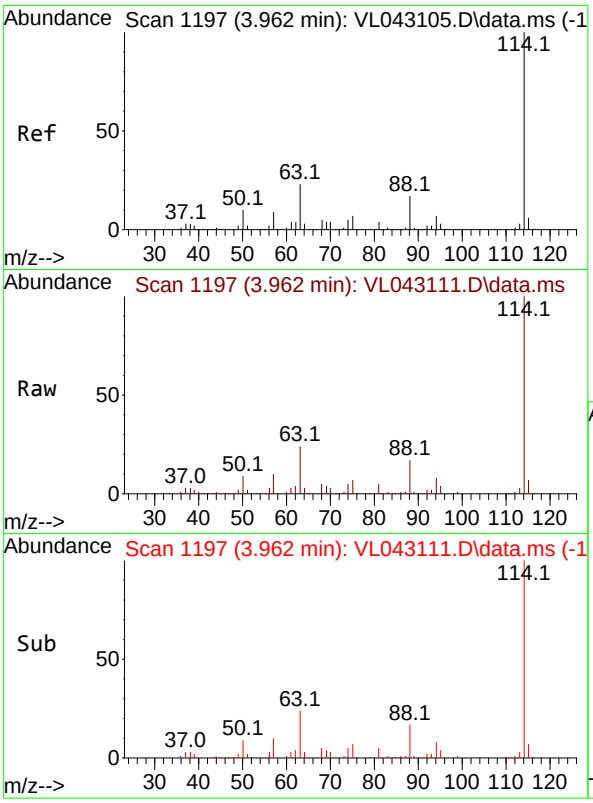


#32
1,1,1-Trichloroethane
Concen: 13.500 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 97 Resp: 316442

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.3	76.9
61	48.0	38.4	57.6

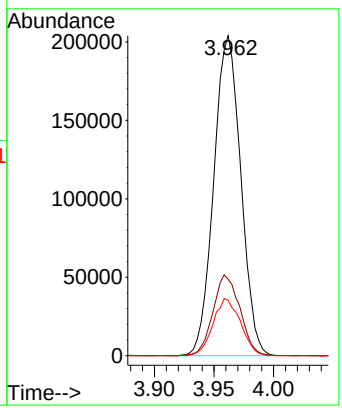




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:114 Resp: 32166

Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.3	28.9
88	18.1	13.9	20.9



Instrument :
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ClientSampleId :
VSTDICC015

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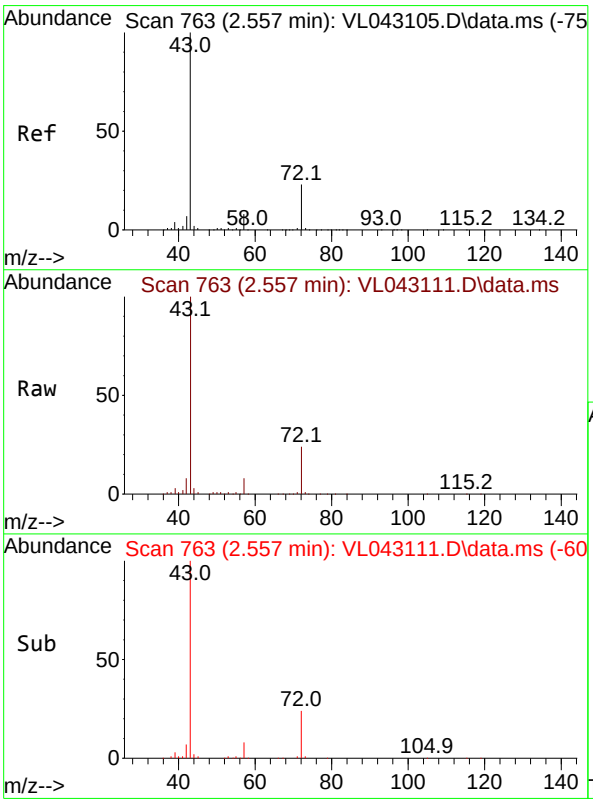
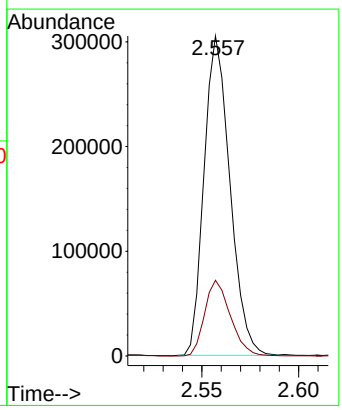
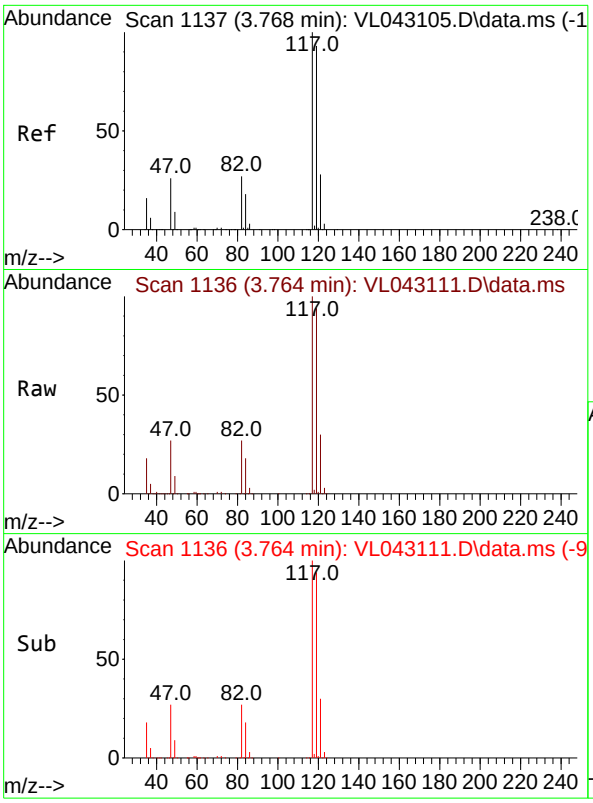


#34
2-Butanone
Concen: 13.020 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 283134

Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.4	27.6

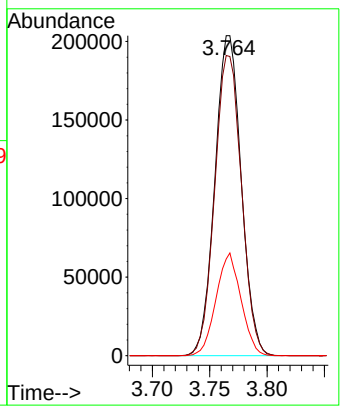




#35
Carbon Tetrachloride
Concen: 14.056 ppbv
RT: 3.764 min Scan# 1
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:117 Resp: 32507

Ion	Ratio	Lower	Upper
117	100		
119	93.8	74.1	111.1
121	30.2	22.2	33.2



Instrument :
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ClientSampleId :
VSTDICC015

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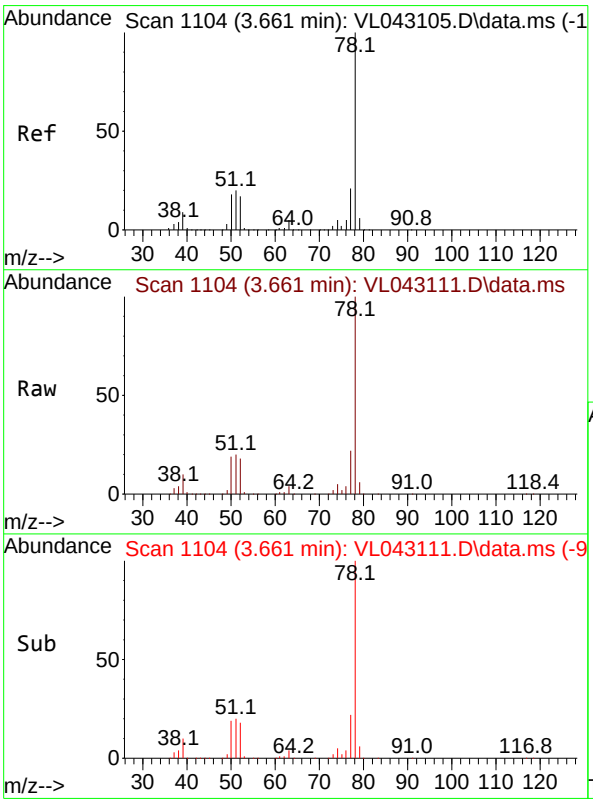
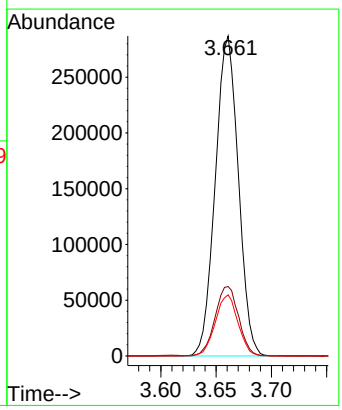
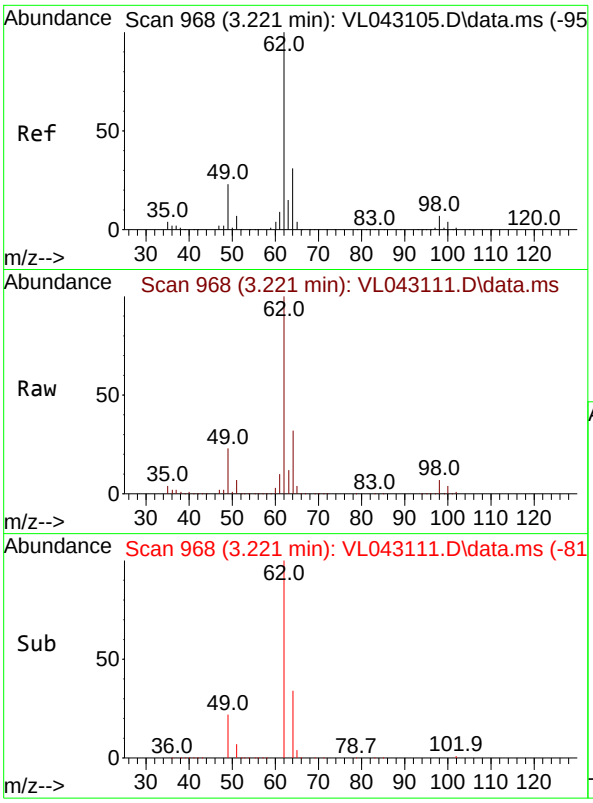


#36
Benzene
Concen: 13.725 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 78 Resp: 415823

Ion	Ratio	Lower	Upper
78	100		
77	21.6	17.0	25.6
50	19.1	14.6	22.0

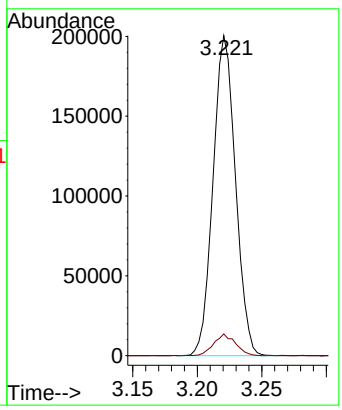




#37
1,2-Dichloroethane
Concen: 13.865 ppbv
RT: 3.221 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 62 Resp: 24198

Ion	Ratio	Lower	Upper
62	100		
98	6.6	5.8	8.6



Instrument :
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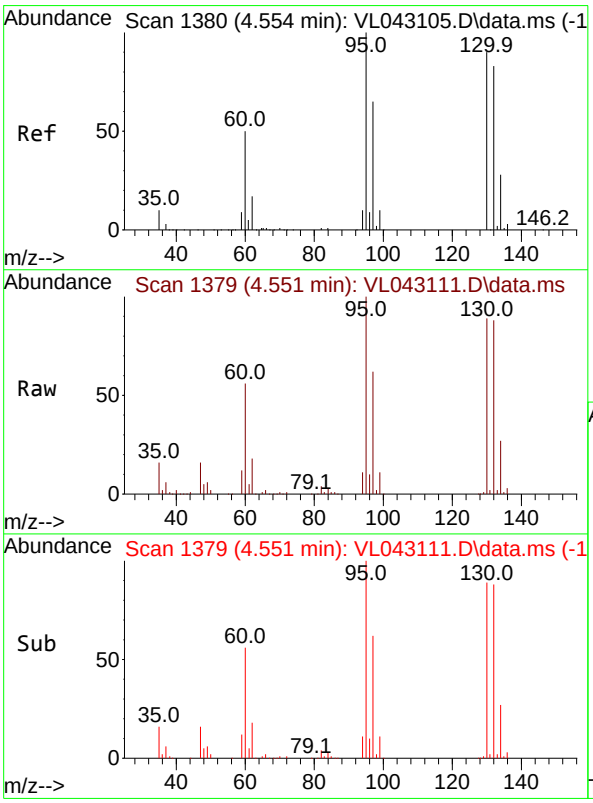
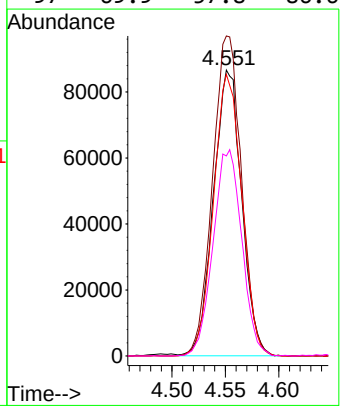
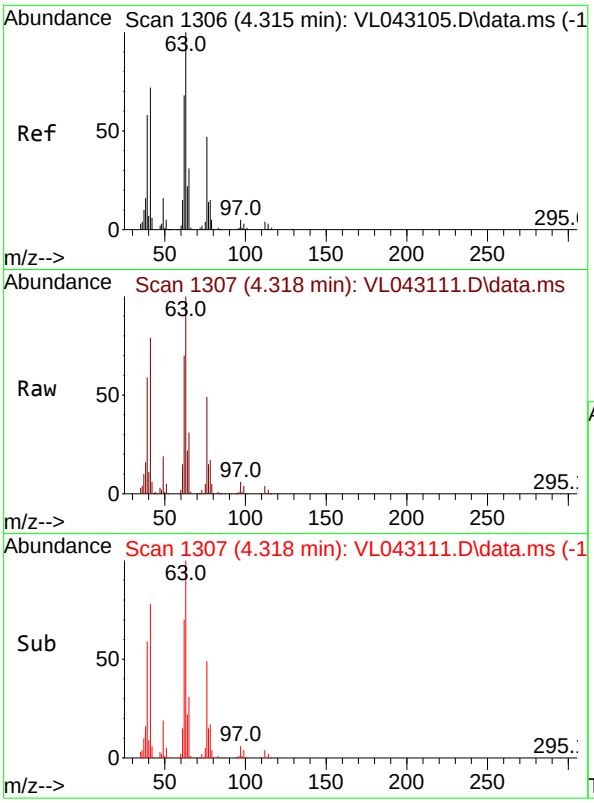


#38
Trichloroethene
Concen: 12.590 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:130 Resp: 159136

Ion	Ratio	Lower	Upper
130	100		
95	111.8	88.6	133.0
132	98.5	73.4	110.0
97	69.9	57.8	86.6

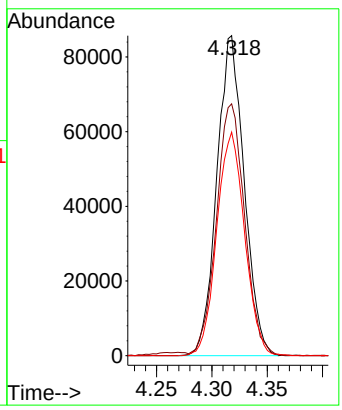




#39
1,2-Dichloropropane
Concen: 13.274 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 63 Resp: 14715

Ion	Ratio	Lower	Upper
63	100		
41	78.4	58.0	87.0
62	69.9	54.7	82.1



Instrument :
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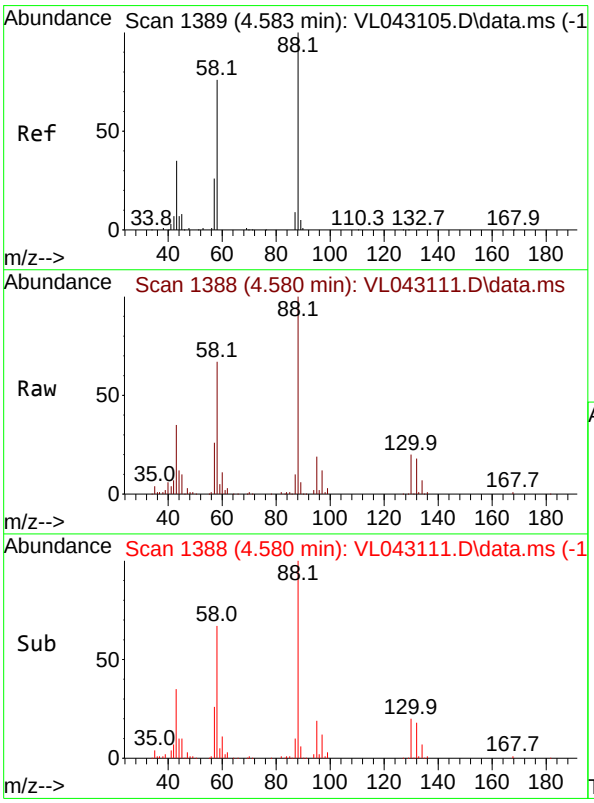
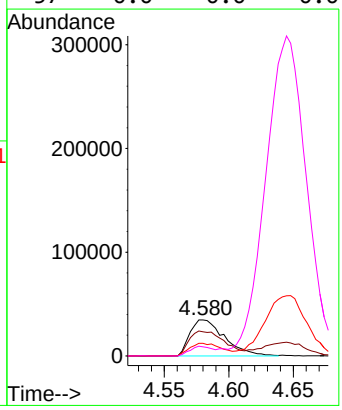
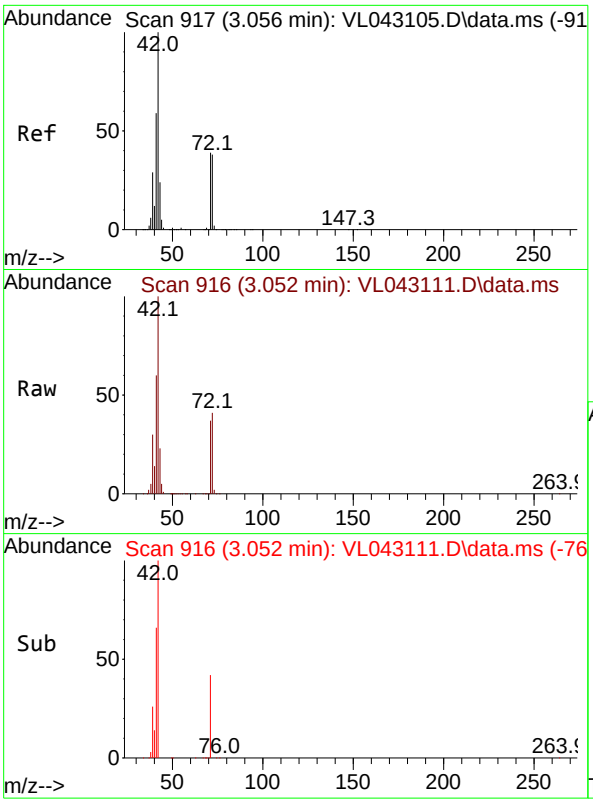


#40
1,4-Dioxane
Concen: 13.180 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 88 Resp: 65323

Ion	Ratio	Lower	Upper
88	100		
58	69.1	61.1	91.7
43	30.0	24.0	36.0
57	0.0	0.0	0.0

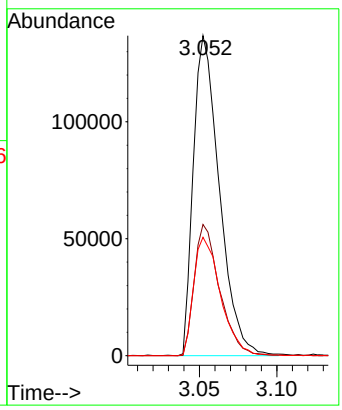




#41
Tetrahydrofuran
Concen: 13.200 ppbv
RT: 3.052 min Scan# 9
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 42 Resp: 16024

Ion	Ratio	Lower	Upper
42	100		
72	40.0	31.3	46.9
71	38.2	30.4	45.6



Instrument :
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ClientSampleId :
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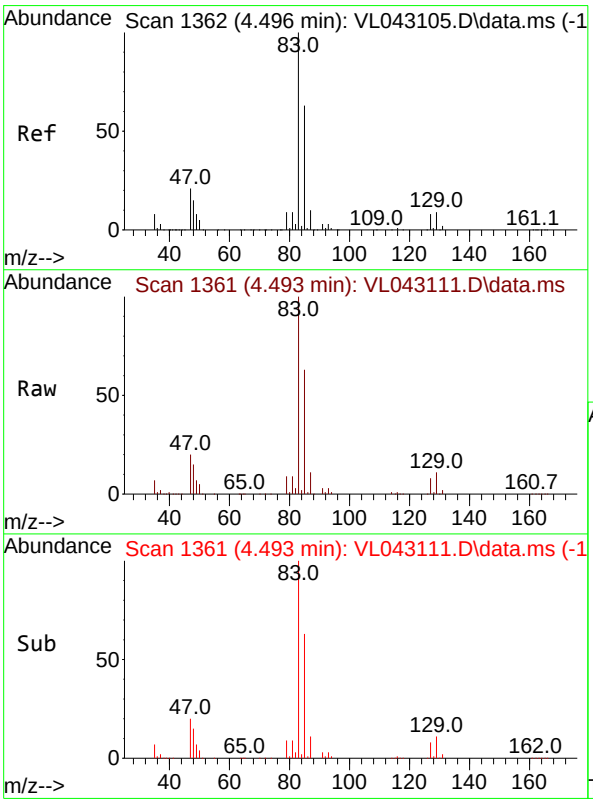
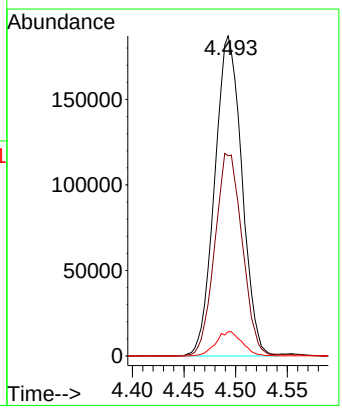
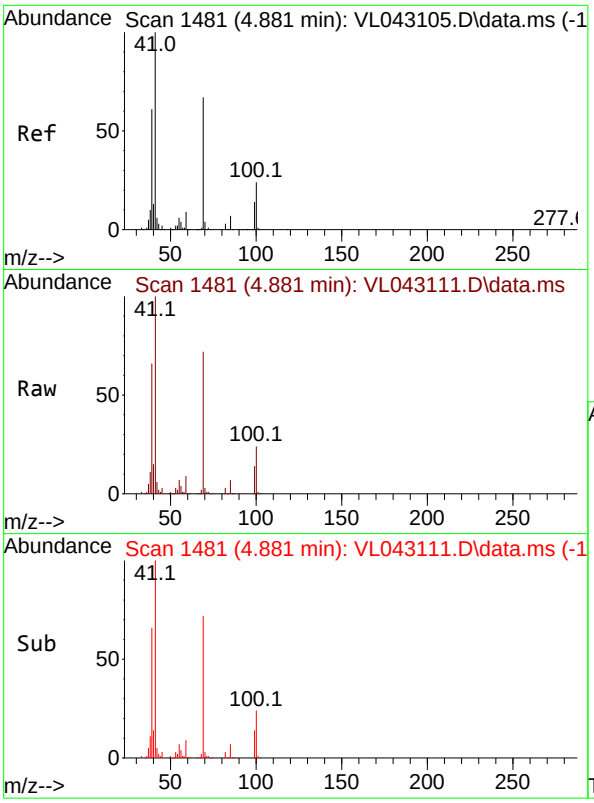


#42
Bromodichloromethane
Concen: 14.234 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 83 Resp: 343817

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.6	75.8
127	7.6	6.3	9.5

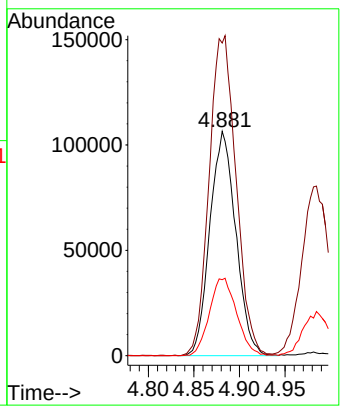




#43
Methyl Methacrylate
Concen: 13.633 ppbv
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 69 Resp: 21075(

Ion	Ratio	Lower	Upper
69	100		
41	148.2	120.5	180.7
100	36.3	29.0	43.4



Instrument :
MSVOA_L
ClientSampleId :
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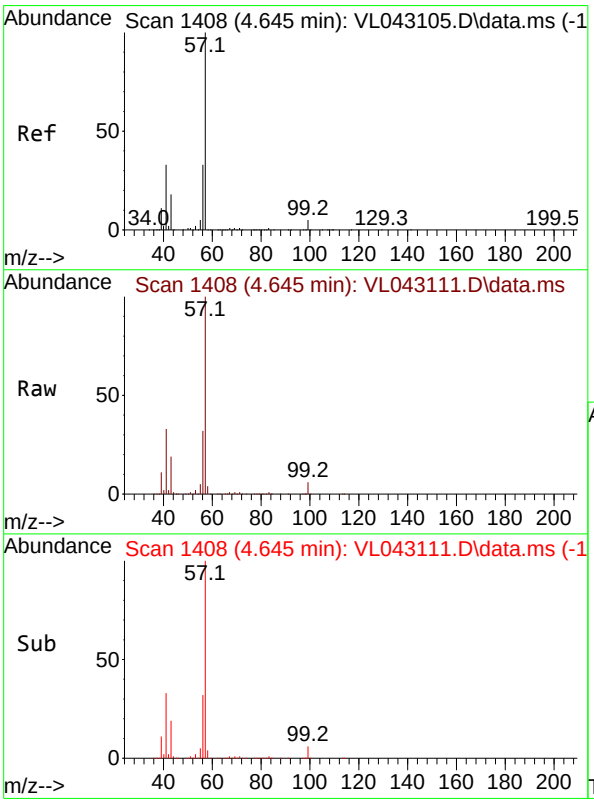
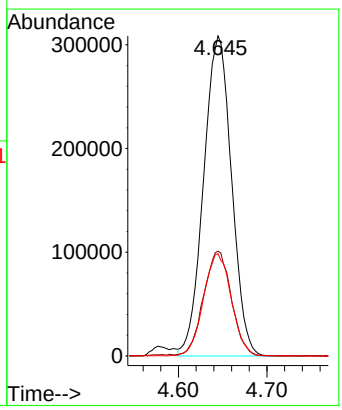
Supervised By :Mahesh Dadoda 10/16/2025

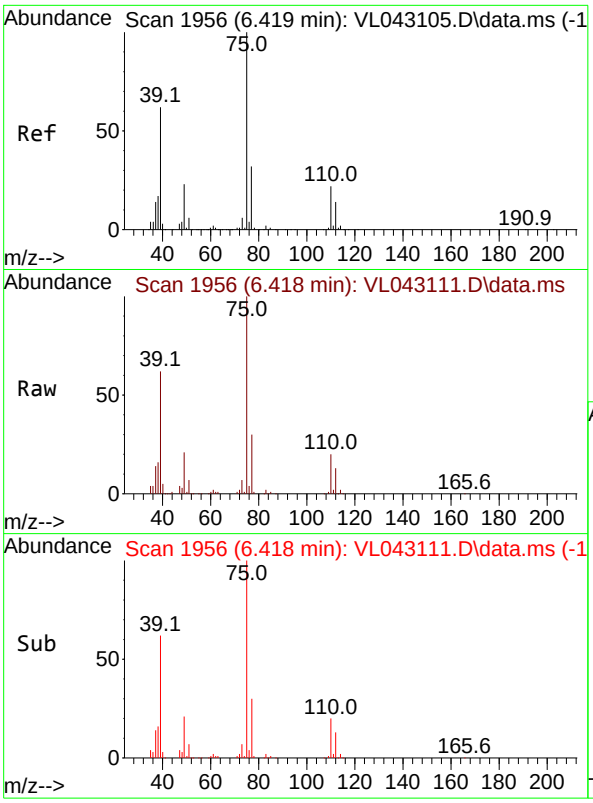


#44
2,2,4-Trimethylpentane
Concen: 13.340 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 675770

Ion	Ratio	Lower	Upper
57	100		
41	33.2	26.3	39.5
56	31.9	25.9	38.9

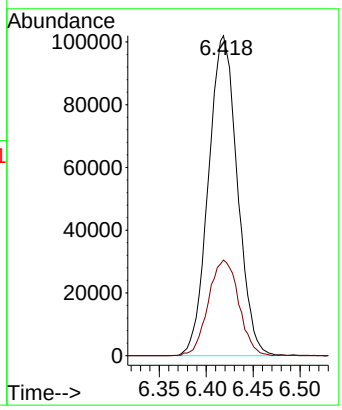




#45
t-1,3-Dichloropropene
Concen: 14.142 ppbv
RT: 6.418 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 75 Resp: 21838

Ion	Ratio	Lower	Upper
75	100		
77	29.9	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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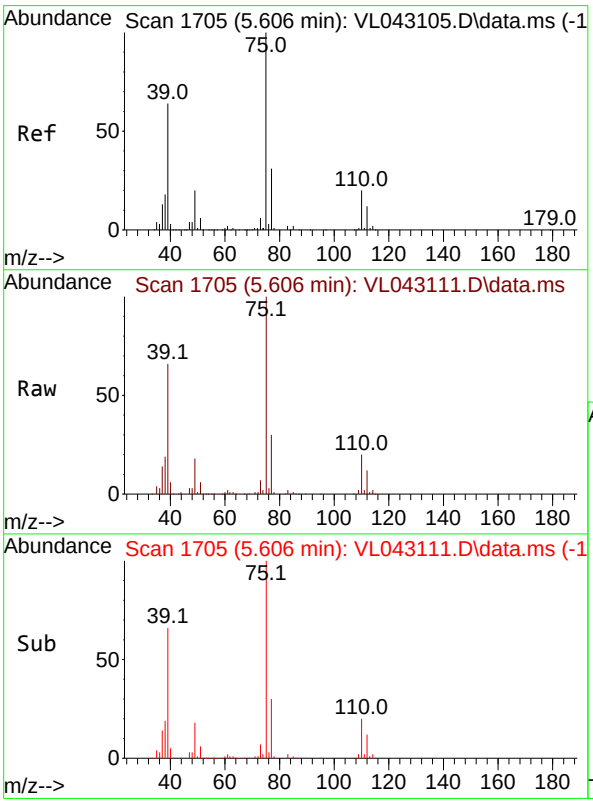
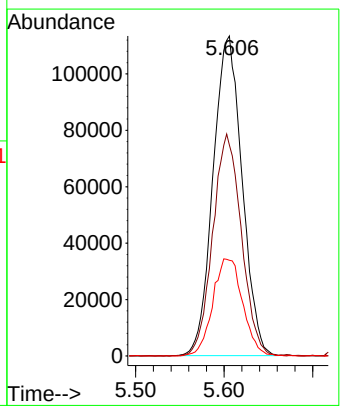
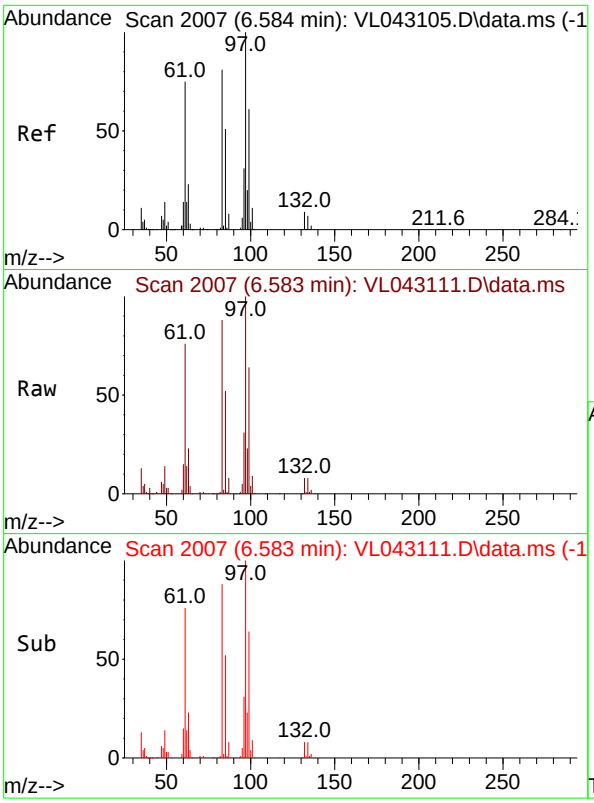


#46
cis-1,3-Dichloropropene
Concen: 14.018 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 75 Resp: 258355

Ion	Ratio	Lower	Upper
75	100		
39	65.8	51.0	76.6
77	29.9	25.0	37.4

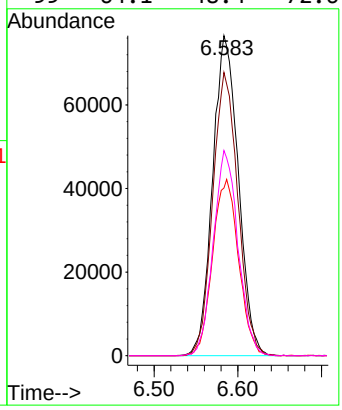




#47
1,1,2-Trichloroethane
Concen: 13.638 ppbv
RT: 6.583 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 97 Resp: 16311

Ion	Ratio	Lower	Upper
97	100		
83	88.4	64.6	96.8
85	52.4	40.6	60.8
99	64.1	48.4	72.6



Instrument :
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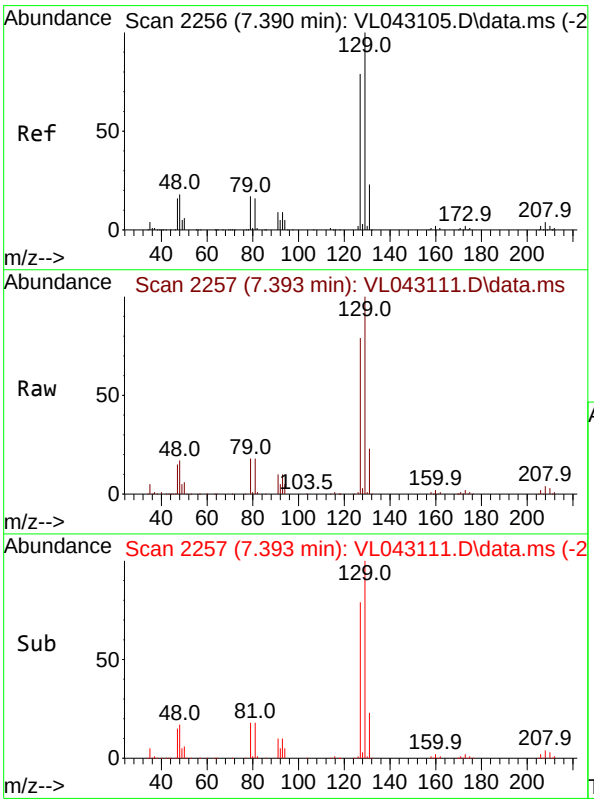
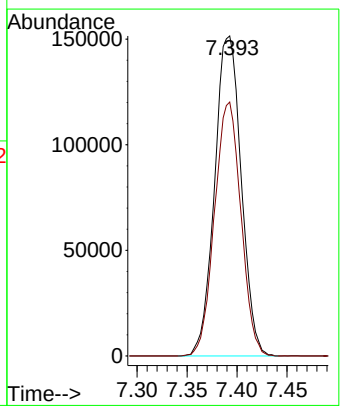
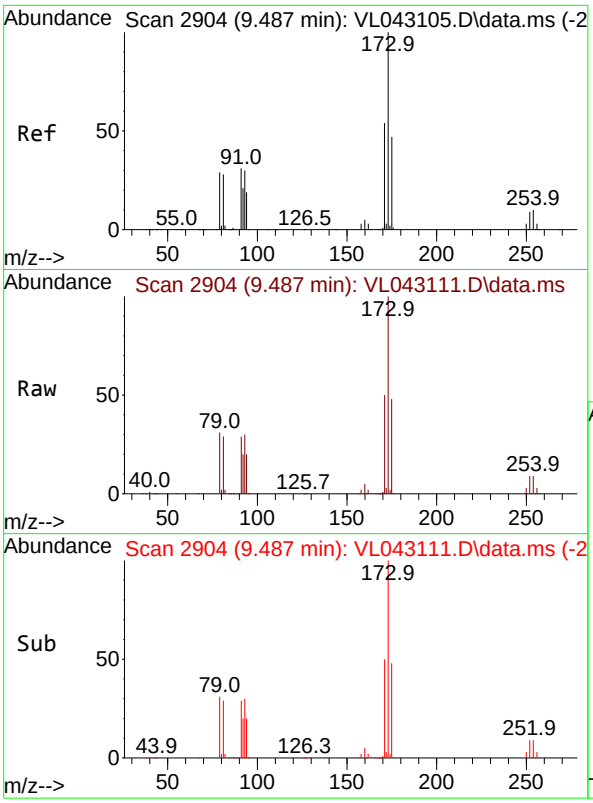


#48
Dibromochloromethane
Concen: 14.051 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:129 Resp: 280993

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9

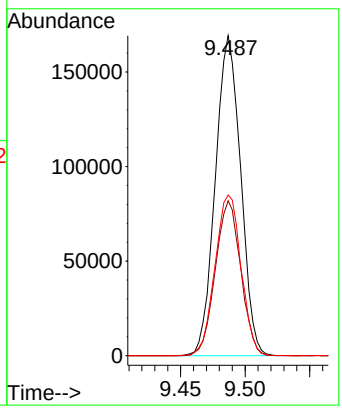




#49
Bromoform
Concen: 14.184 ppbv
RT: 9.487 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:173 Resp: 23056

Ion	Ratio	Lower	Upper
173	100		
175	48.5	38.8	58.2
171	51.7	41.7	62.5



Instrument :
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ClientSampleId :
VSTDICC015

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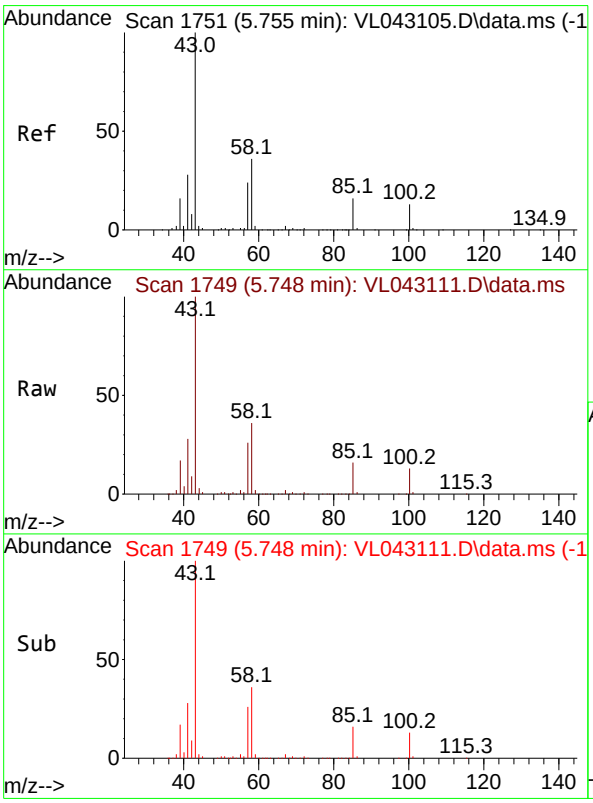
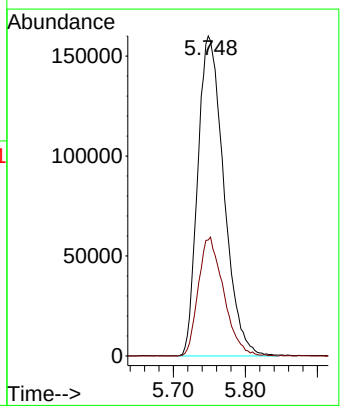
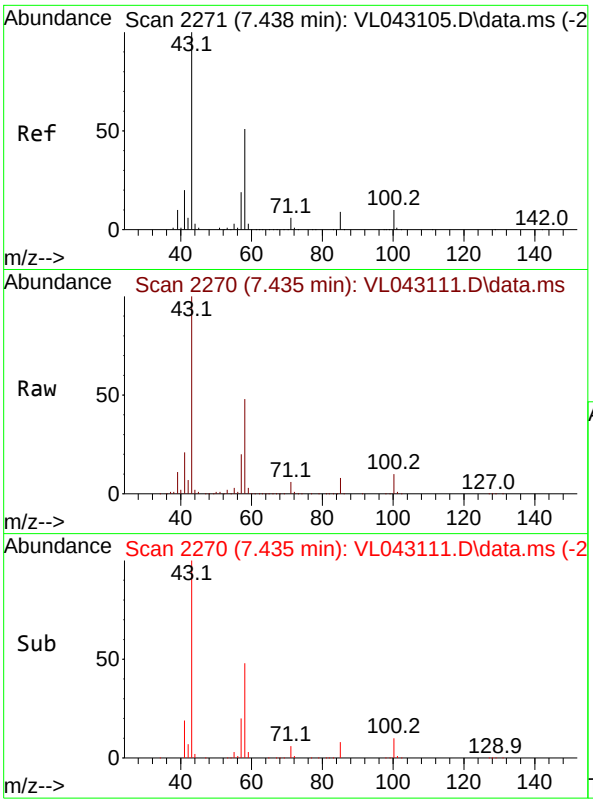


#50
4-Methyl-2-Pentanone
Concen: 13.396 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.007 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 401849

Ion	Ratio	Lower	Upper
43	100		
58	36.3	29.1	43.7

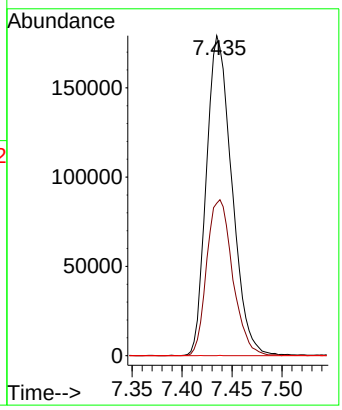




#51
2-Hexanone
Concen: 14.176 ppbv
RT: 7.435 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 31728

Ion	Ratio	Lower	Upper
43	100		
58	49.8	40.4	60.6
98	0.0	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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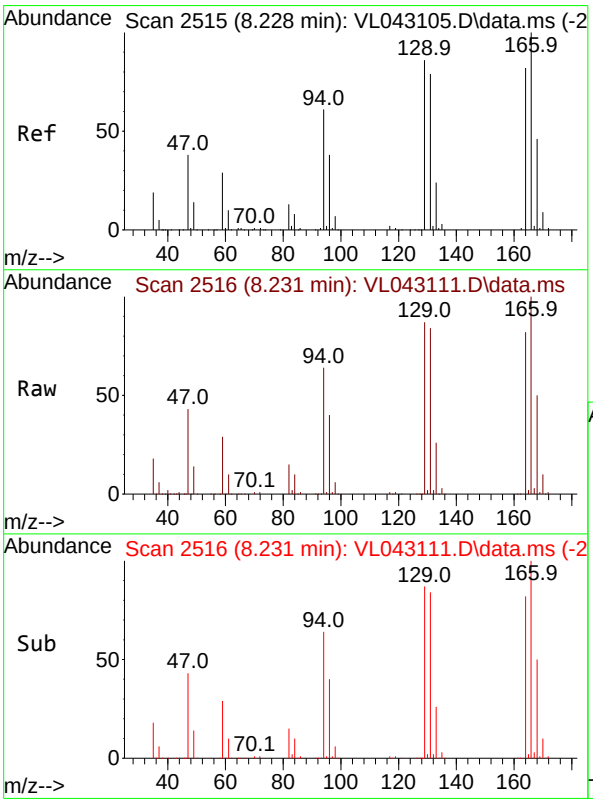
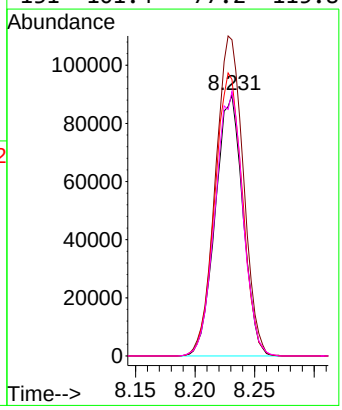
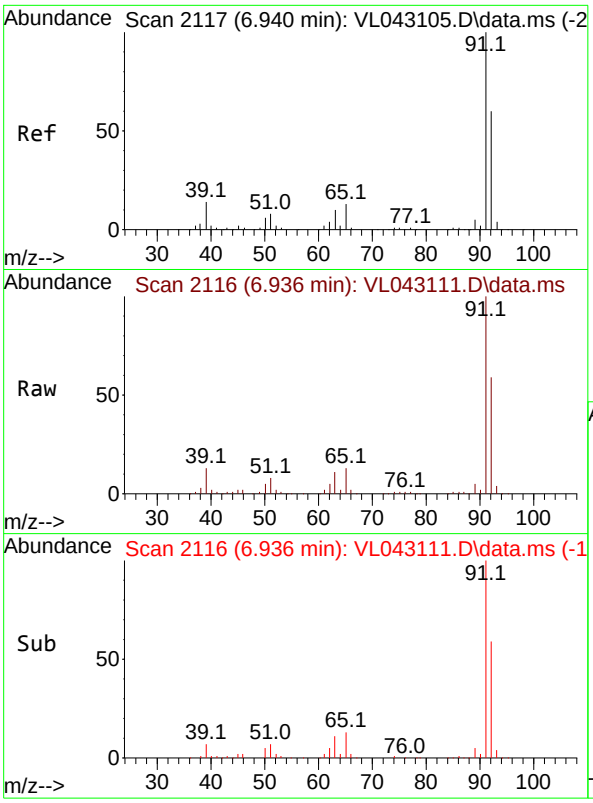


#52
Tetrachloroethene
Concen: 13.177 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:164 Resp: 143954

Ion	Ratio	Lower	Upper
164	100		
166	121.3	97.6	146.4
129	106.0	84.5	126.7
131	101.4	77.2	115.8

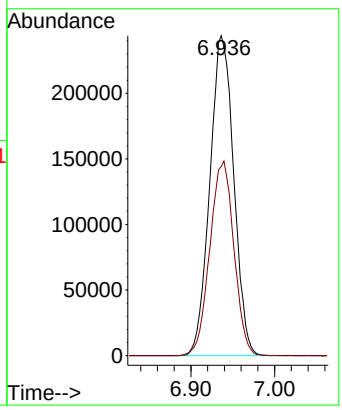




#53
Toluene
Concen: 13.457 ppbv
RT: 6.936 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 48387

Ion	Ratio	Lower	Upper
91	100		
92	61.1	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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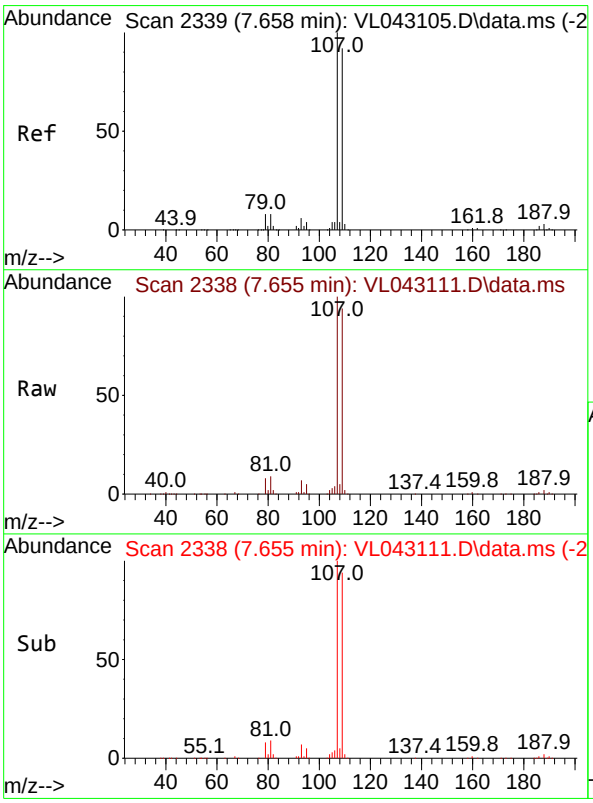
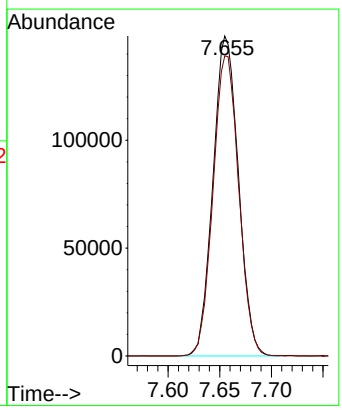
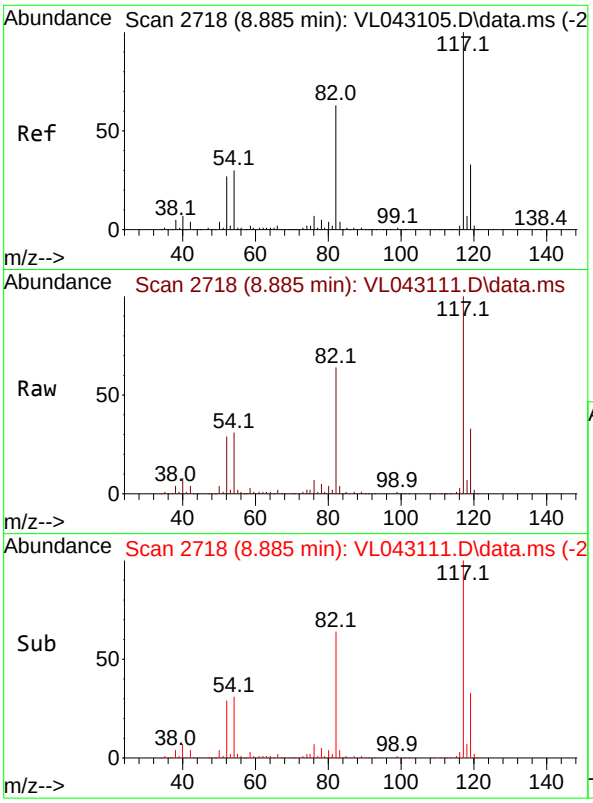


#54
1,2-Dibromoethane
Concen: 13.461 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:107 Resp: 254024

Ion	Ratio	Lower	Upper
107	100		
109	93.8	73.4	110.2

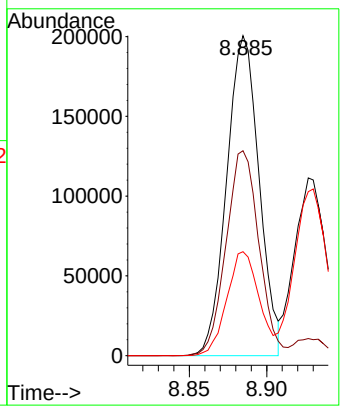




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:117 Resp: 29254

Ion	Ratio	Lower	Upper
117	100		
82	70.2	53.8	80.8
119	33.1	25.4	38.0



Instrument :
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ClientSampleId :
VSTDICC015

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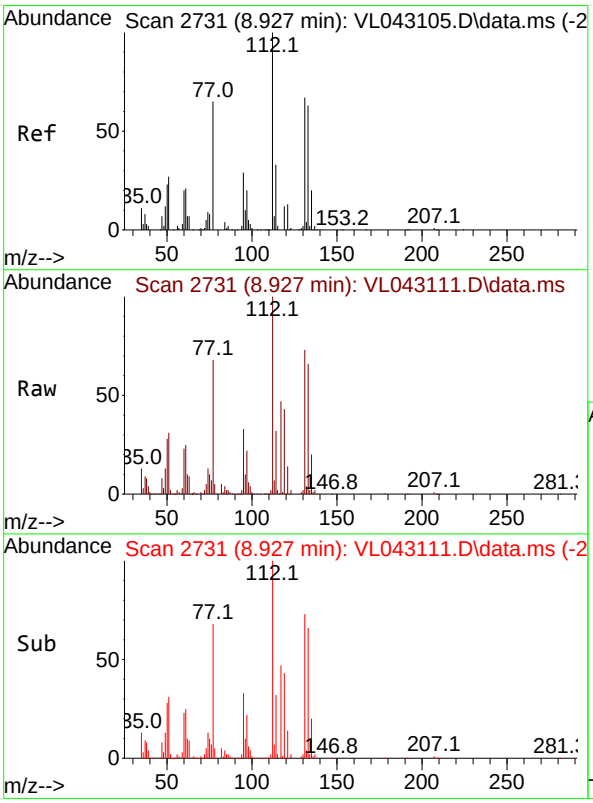
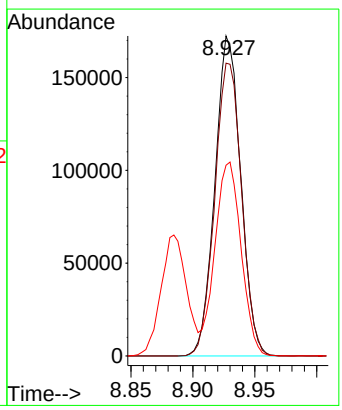
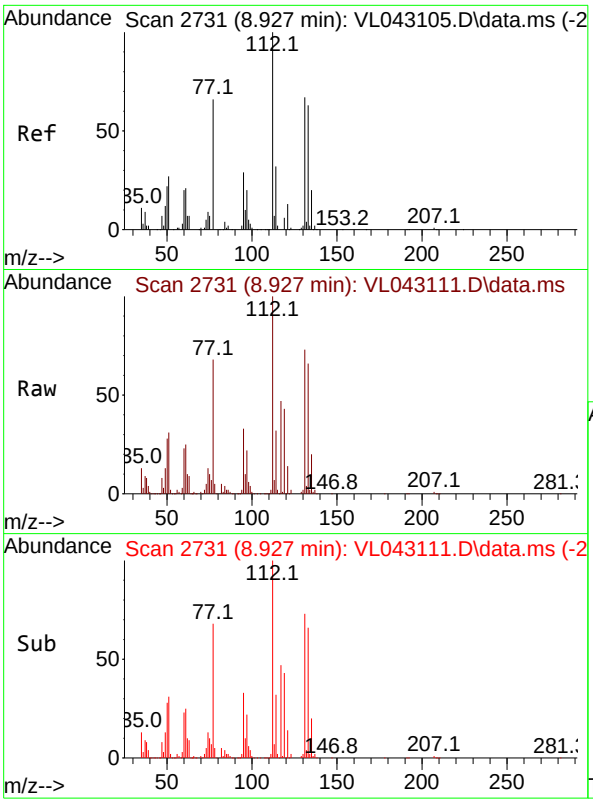


#56
1,1,1,2-Tetrachloroethane
Concen: 13.573 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:131 Resp: 250303

Ion	Ratio	Lower	Upper
131	100		
133	95.1	75.7	113.5
119	61.9	50.6	76.0

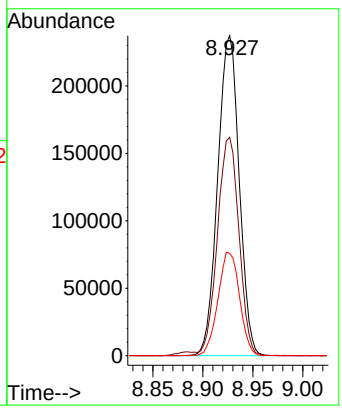




#57
Chlorobenzene
Concen: 12.983 ppbv
RT: 8.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:112 Resp: 35530

Ion	Ratio	Lower	Upper
112	100		
77	68.2	53.3	79.9
114	32.0	29.3	35.8



Instrument :
MSVOA_L
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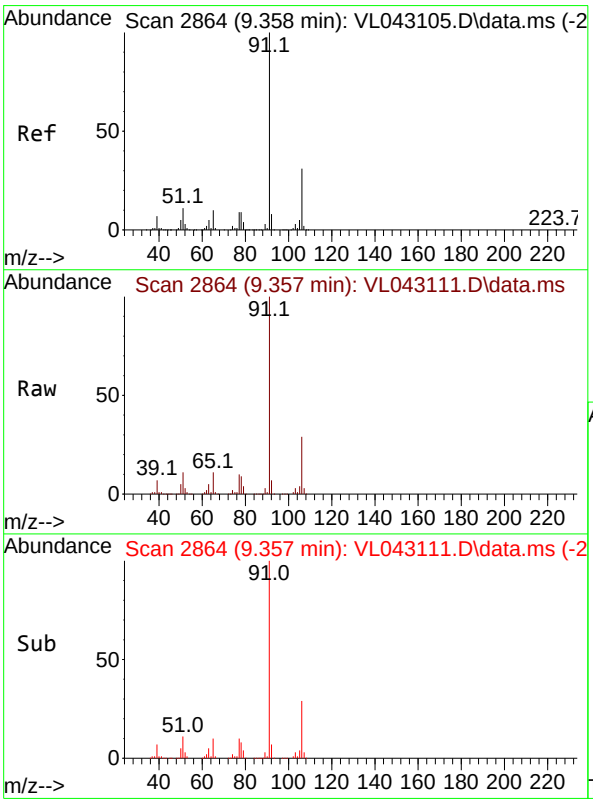
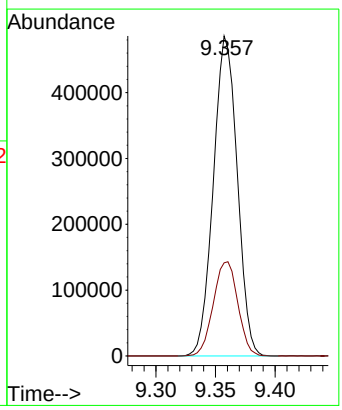
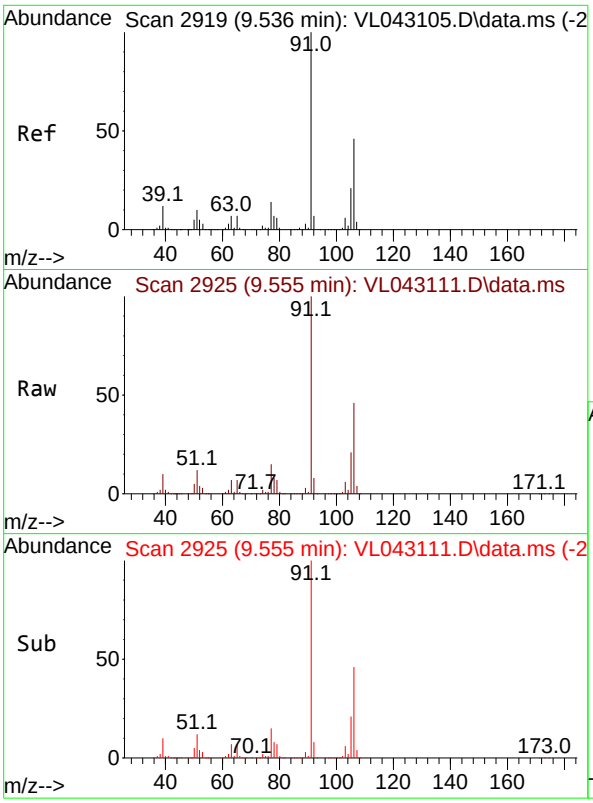


#58
Ethyl Benzene
Concen: 13.375 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 676918

Ion	Ratio	Lower	Upper
91	100		
106	29.1	24.8	37.2

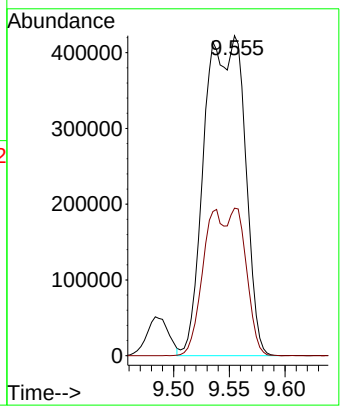




#59
m/p-Xylene
Concen: 26.498 ppbv m
RT: 9.555 min Scan# 2
Delta R.T. 0.019 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 106195

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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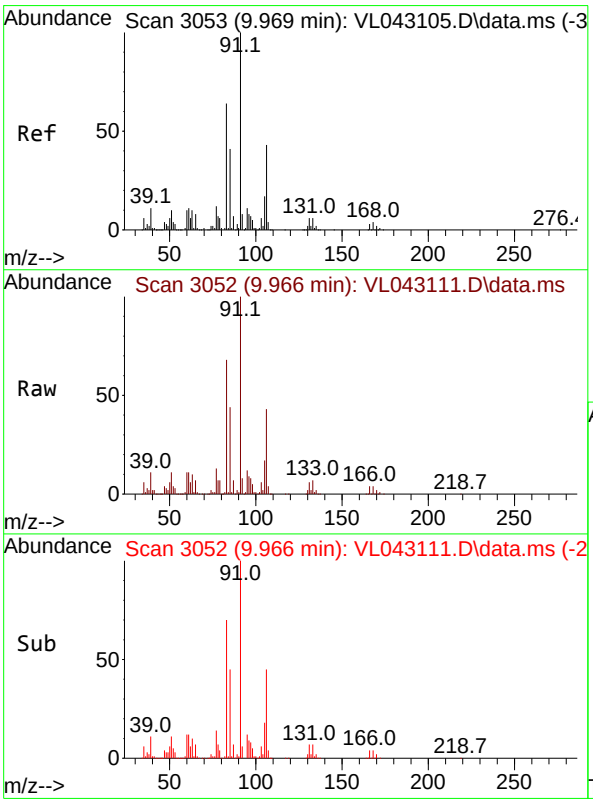
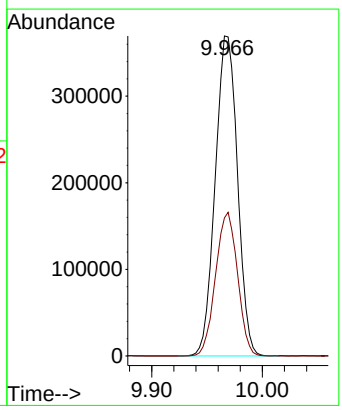
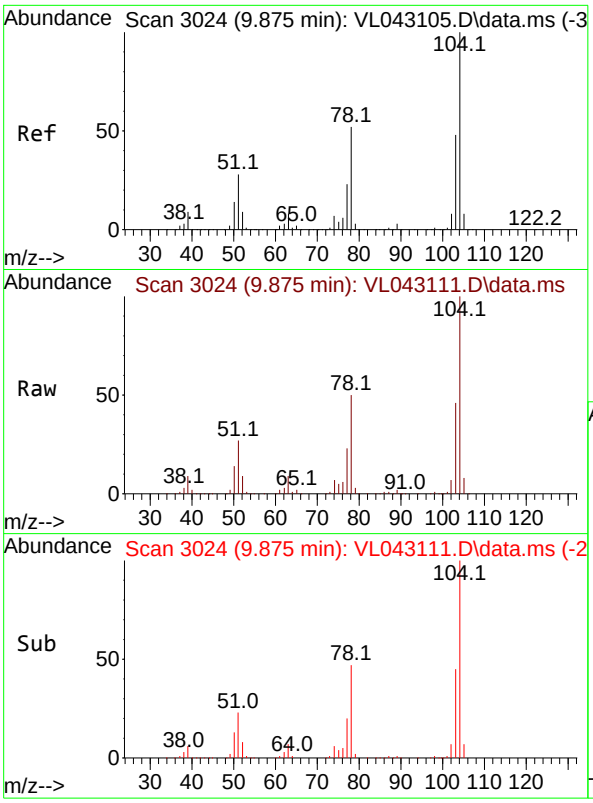


#60
o-Xylene
Concen: 13.063 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 516660

Ion	Ratio	Lower	Upper
91	100		
106	44.3	21.9	65.8

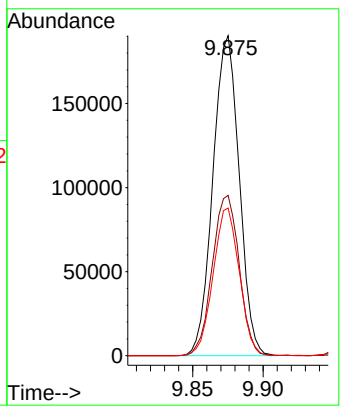




#61
Styrene
Concen: 13.867 ppbv
RT: 9.875 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:104 Resp: 24758

Ion	Ratio	Lower	Upper
104	100		
78	51.2	40.2	60.2
103	46.0	36.9	55.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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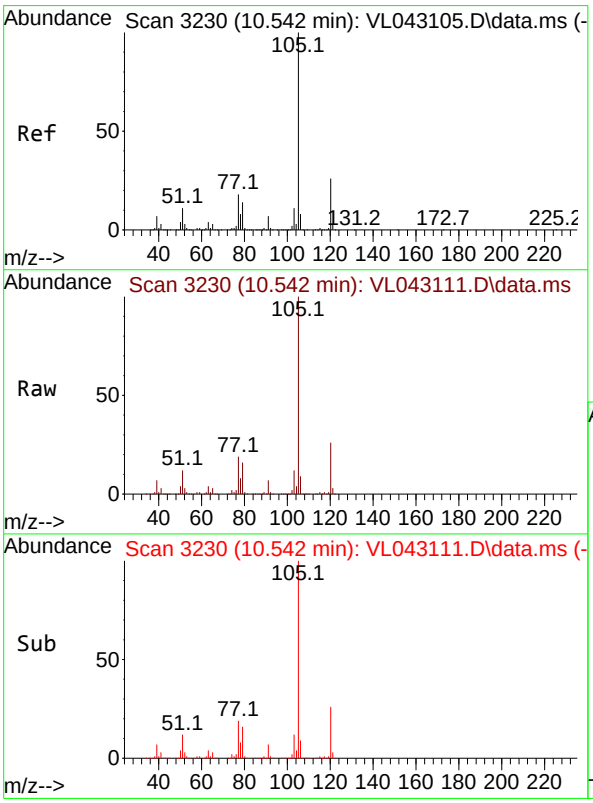
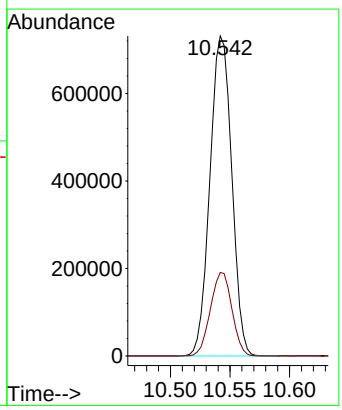
Supervised By :Mahesh Dadoda 10/16/2025

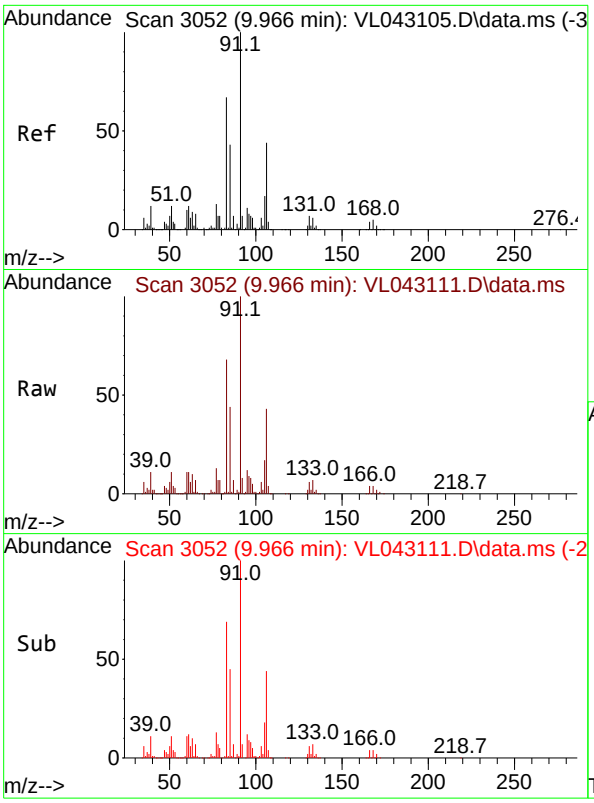


#62
Isopropylbenzene
Concen: 13.034 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 931508

Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.2	30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 12.515 ppbv
RT: 9.966 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 83 Resp: 33142

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	63.6	32.0	96.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
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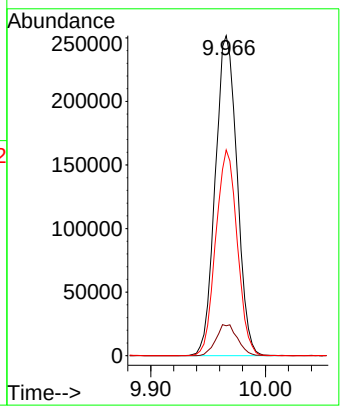
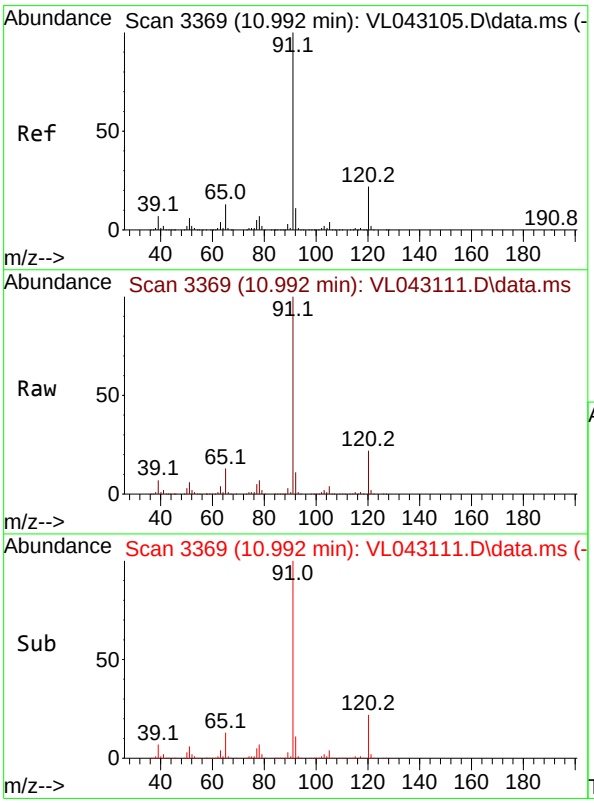
Supervised By :Mahesh Dadoda 10/16/2025

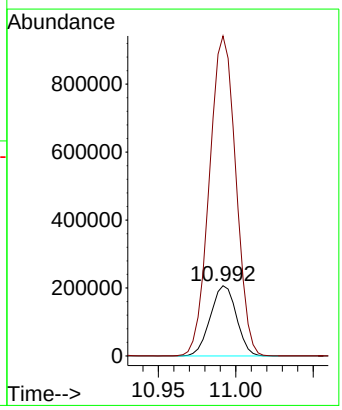


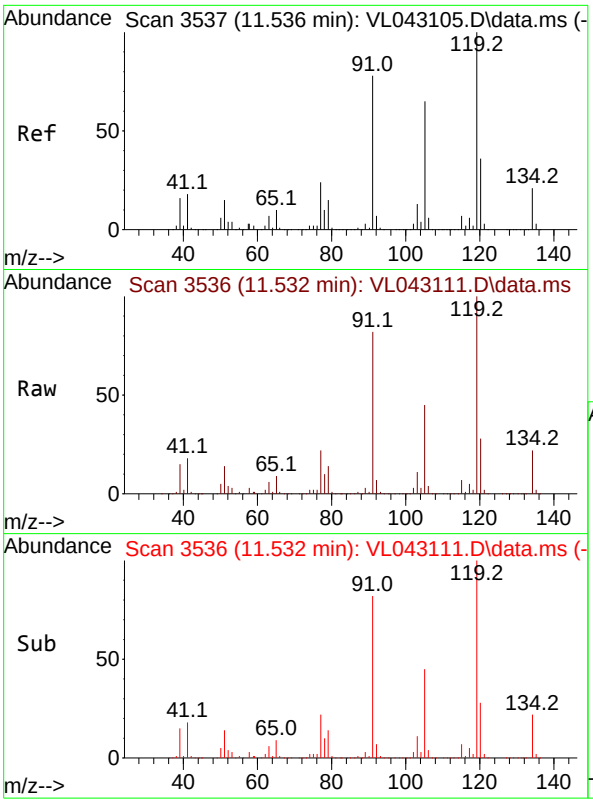


#64
n-propylbenzene
Concen: 12.775 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:120 Resp: 241719

Ion	Ratio	Lower	Upper
120	100		
91	463.5	361.6	542.4

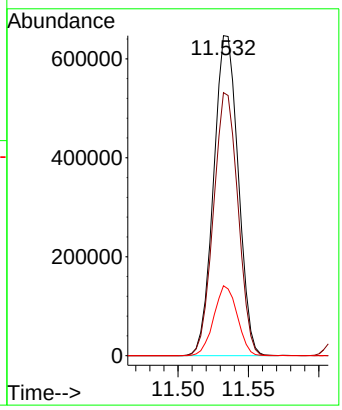




#65
tert-Butylbenzene
Concen: 12.490 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:119 Resp: 78823

Ion	Ratio	Lower	Upper
119	100		
91	81.8	63.4	95.0
134	20.8	17.3	25.9



Instrument :
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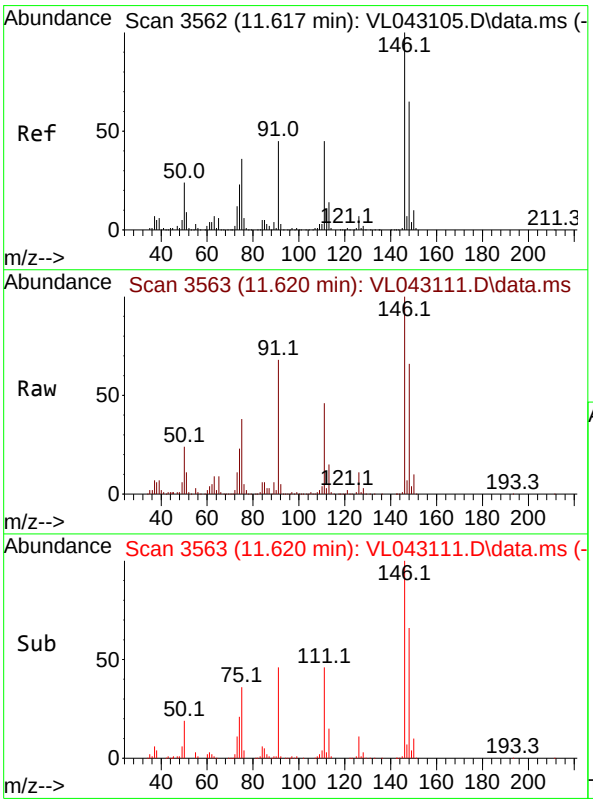
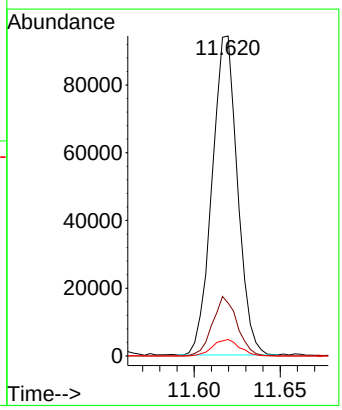
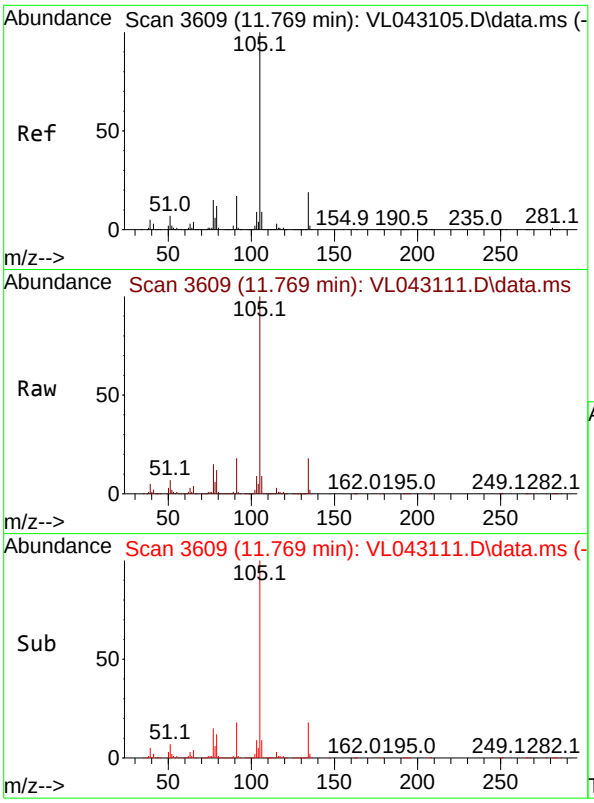


#66
Benzyl Chloride
Concen: 13.778 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 97114

Ion	Ratio	Lower	Upper
91	100		
126	18.0	14.6	22.0
128	5.4	4.6	6.8





#67
sec-Butylbenzene
Concen: 12.566 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 112548

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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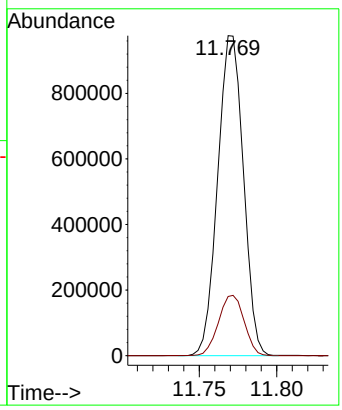
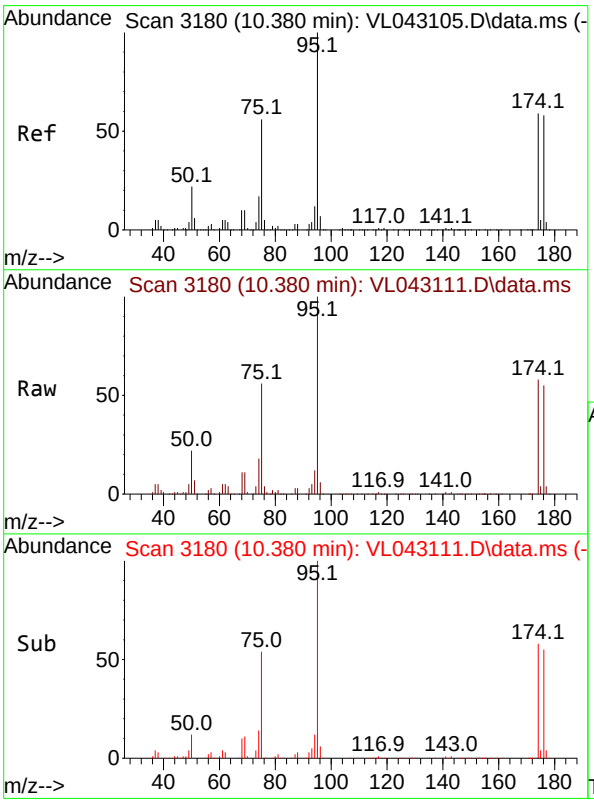
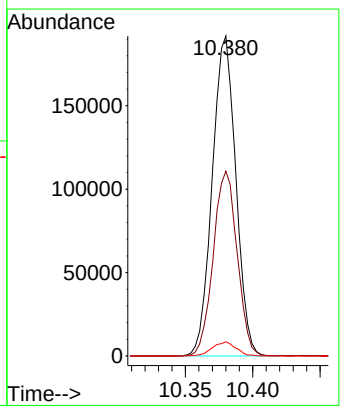


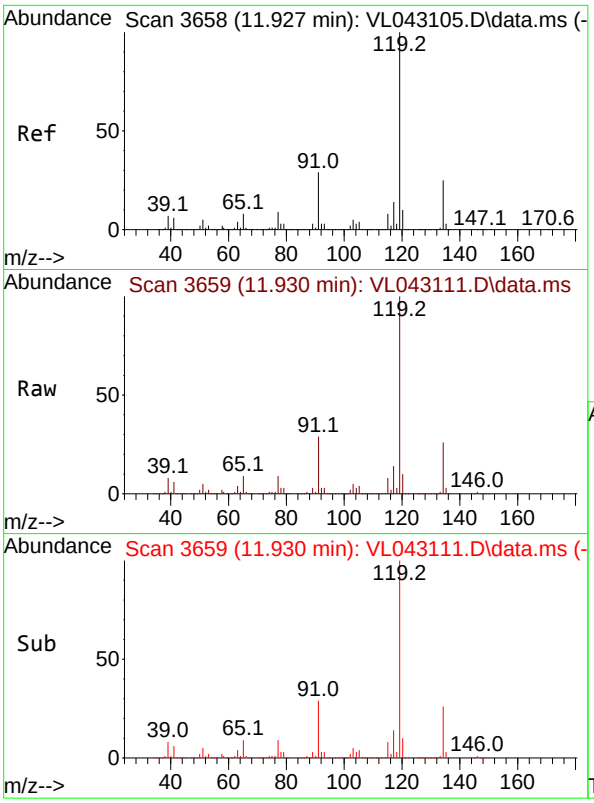


#68
1-Bromo-4-Fluorobenzene
Concen: 10.270 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 95 Resp: 233522

Ion	Ratio	Lower	Upper
95	100		
174	58.7	48.3	72.5
175	4.4	3.8	5.8

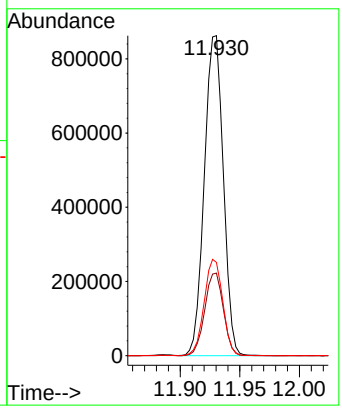




#69
p-Isopropyltoluene
Concen: 12.602 ppbv
RT: 11.930 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:119 Resp: 95920

Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.3	30.5
91	29.5	22.6	33.8



Instrument :
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ClientSampleId :
VSTDICC015

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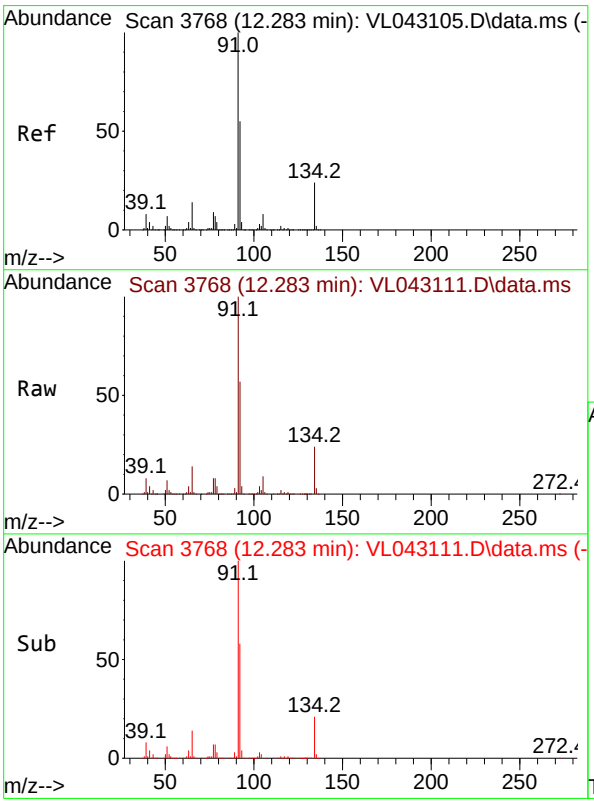
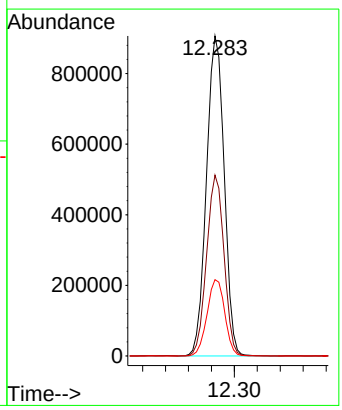
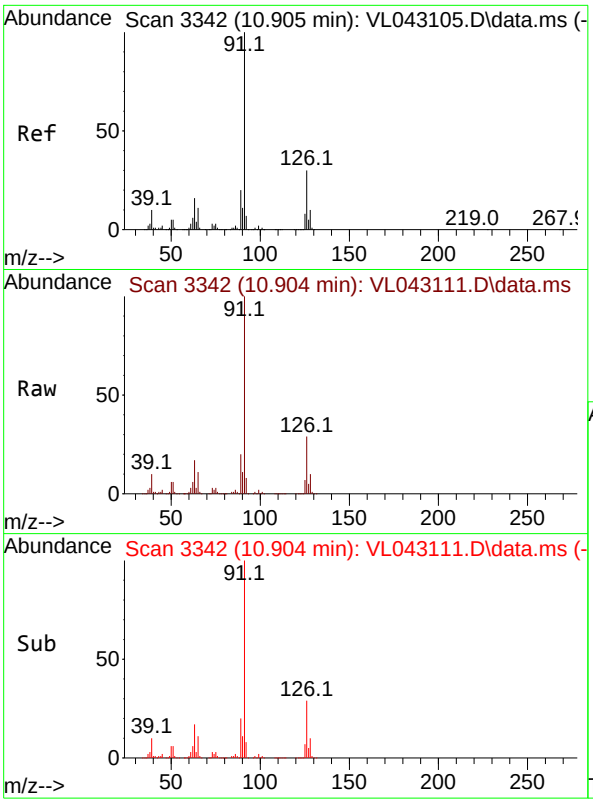


#70
n-Butylbenzene
Concen: 12.979 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 973466

Ion	Ratio	Lower	Upper
91	100		
92	55.6	44.5	66.7
134	23.8	19.3	28.9

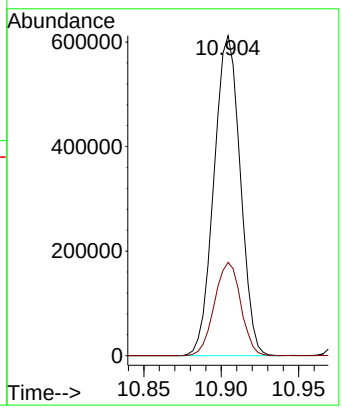




#71
2-Chlorotoluene
Concen: 13.242 ppbv
RT: 10.904 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 72182

Ion	Ratio	Lower	Upper
91	100		
126	29.1	12.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
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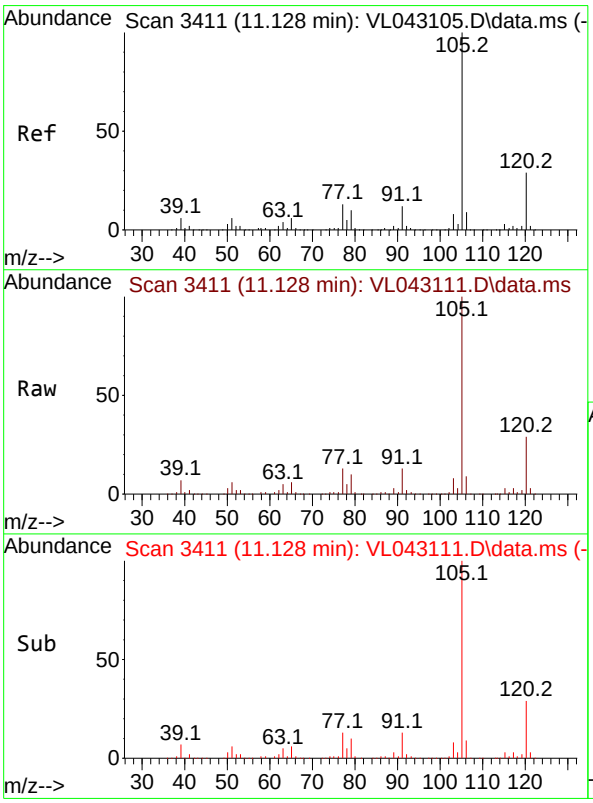
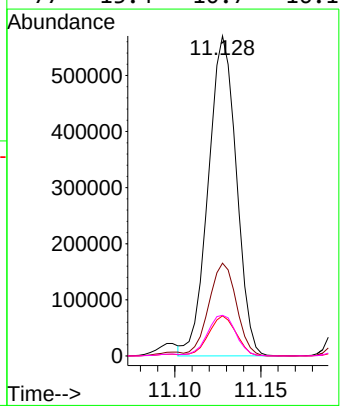
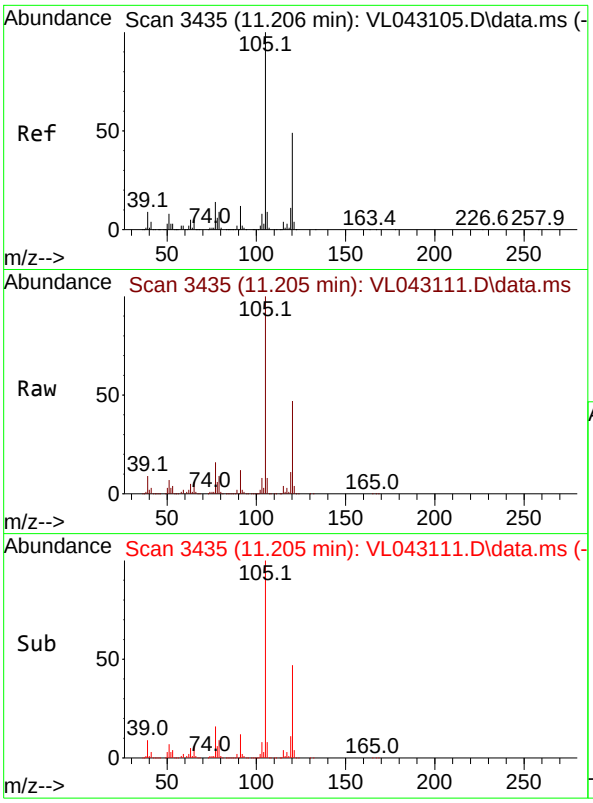


#72
4-Ethyltoluene
Concen: 13.310 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 647315

Ion	Ratio	Lower	Upper
105	100		
120	29.6	24.2	36.4
91	12.7	10.0	15.0
77	13.4	10.7	16.1

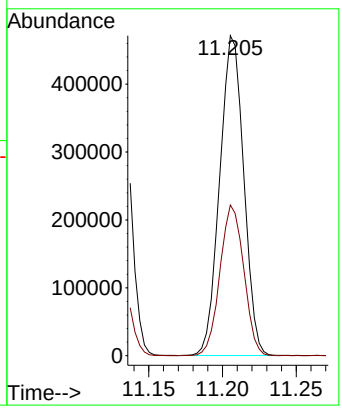




#73
1,3,5-Trimethylbenzene
Concen: 13.314 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 53400

Ion	Ratio	Lower	Upper
105	100		
120	47.1	39.0	58.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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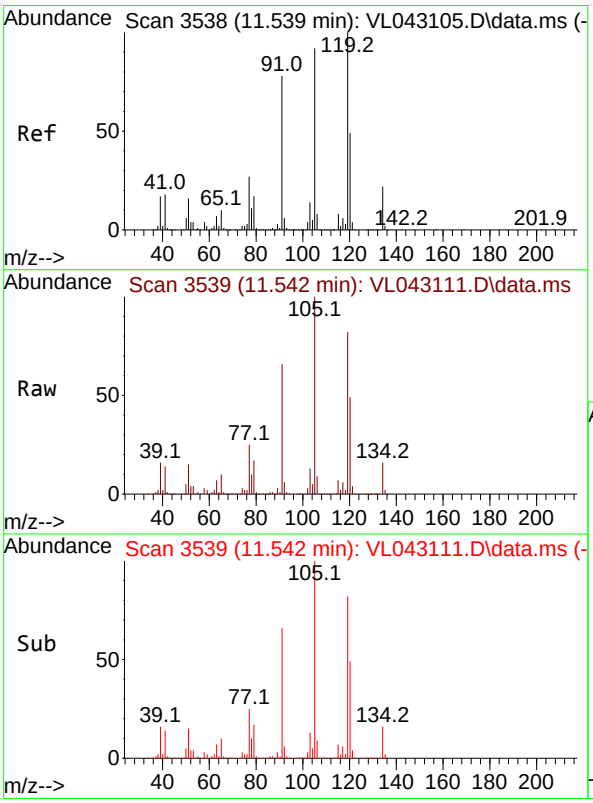
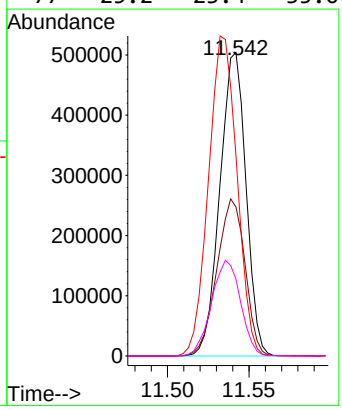
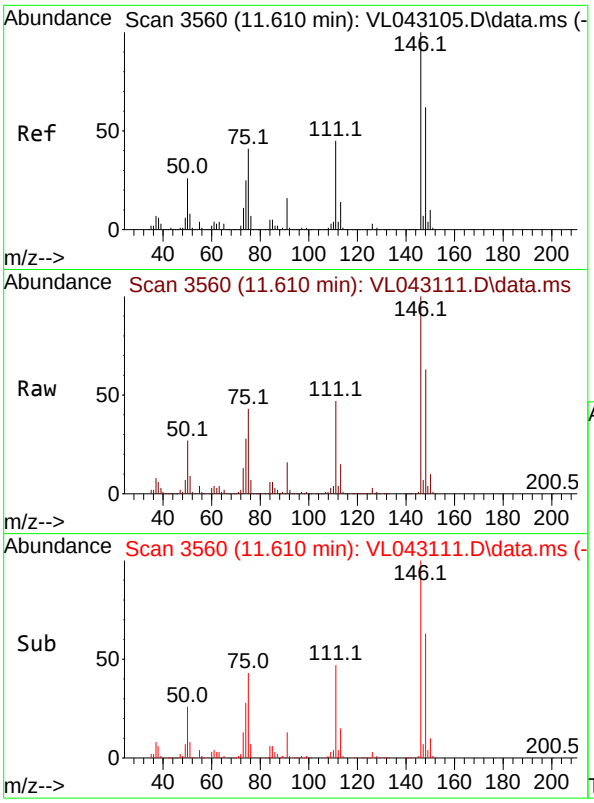


#74
1,2,4-Trimethylbenzene
Concen: 12.498 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 560932

Ion	Ratio	Lower	Upper
105	100		
120	49.0	42.8	64.2
91	66.0	68.3	102.5#
77	25.2	23.4	35.0

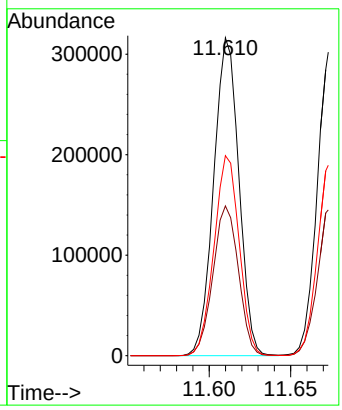




#75
1,3-Dichlorobenzene
Concen: 13.031 ppbv
RT: 11.610 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:146 Resp: 33920

Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.3	69.9
148	63.0	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
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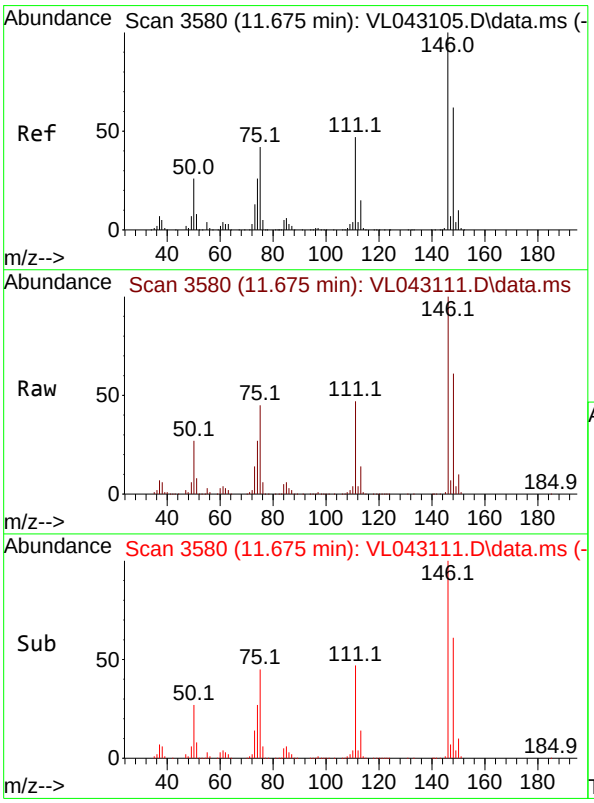
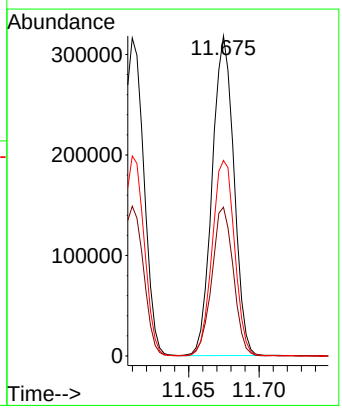
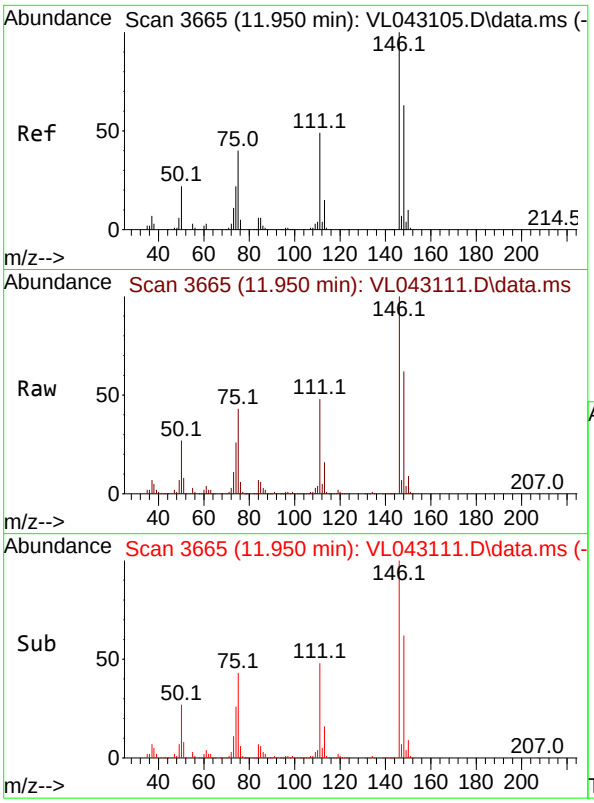


#76
1,4-Dichlorobenzene
Concen: 13.027 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:146 Resp: 341936

Ion	Ratio	Lower	Upper
146	100		
111	46.1	22.4	67.0
148	63.4	31.6	94.7

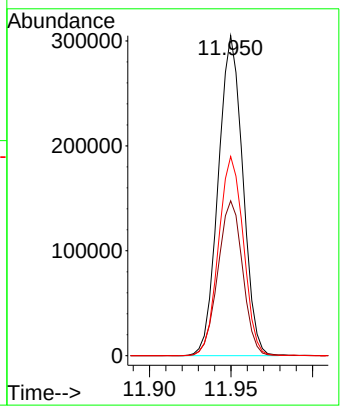




#77
1,2-Dichlorobenzene
Concen: 12.660 ppbv
RT: 11.950 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:146 Resp: 31880

Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.0	72.0
148	63.2	31.1	93.3



Instrument :
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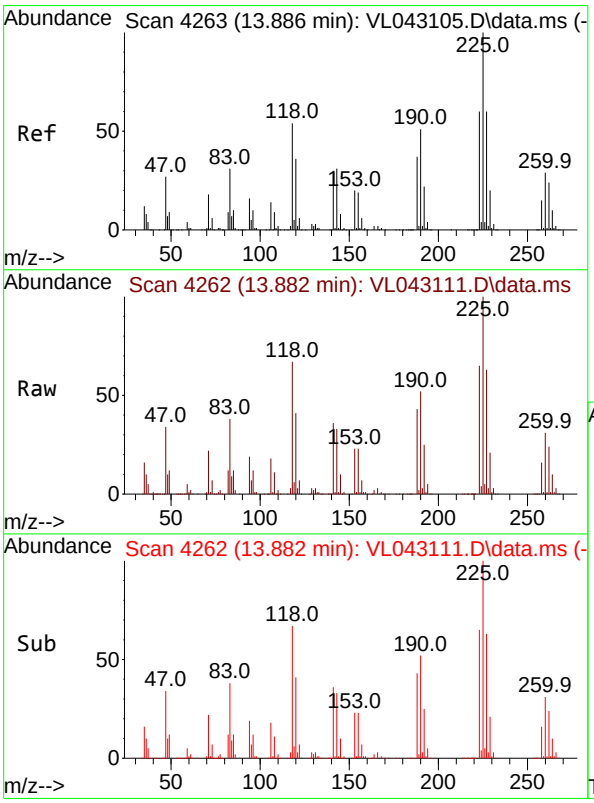
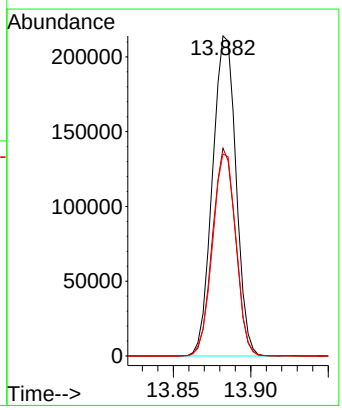
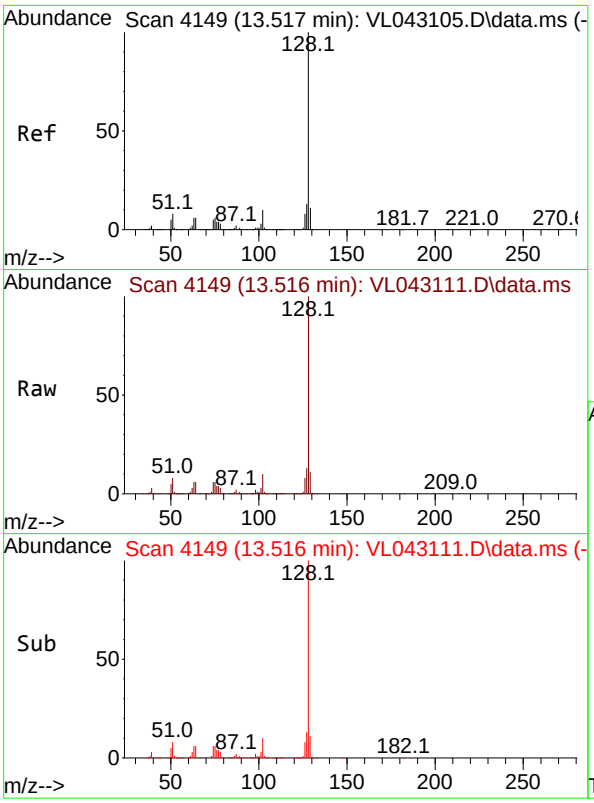


#78
Hexachloro-1,3-Butadiene
Concen: 11.606 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:225 Resp: 226294

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.2	75.4
227	63.1	49.6	74.4

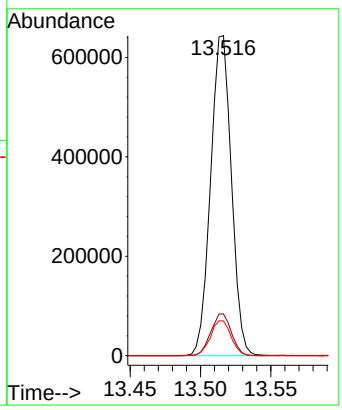




#79
Naphthalene
Concen: 14.260 ppbv
RT: 13.516 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:128 Resp: 66109

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.8	9.1	13.7



Instrument :
MSVOA_L
ClientSampleId :
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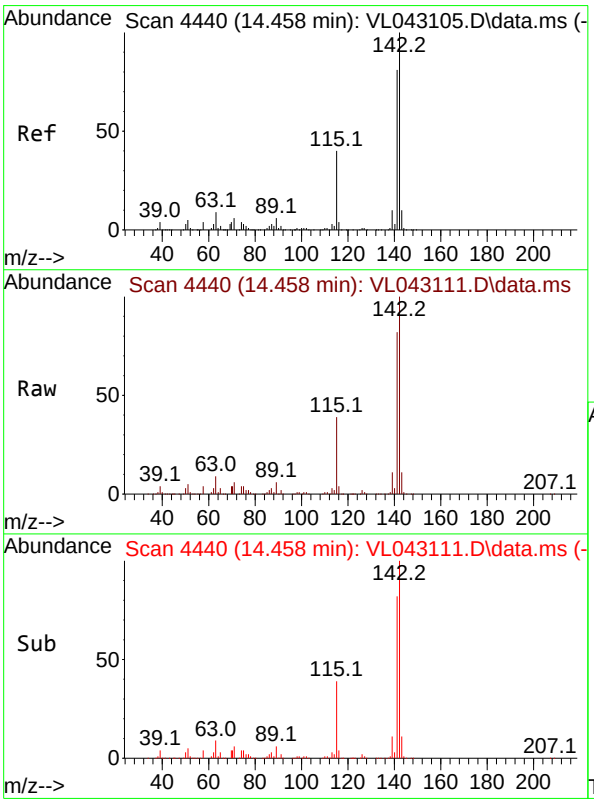
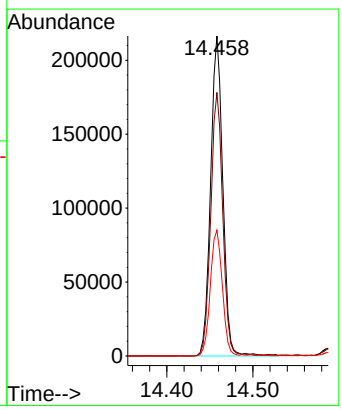
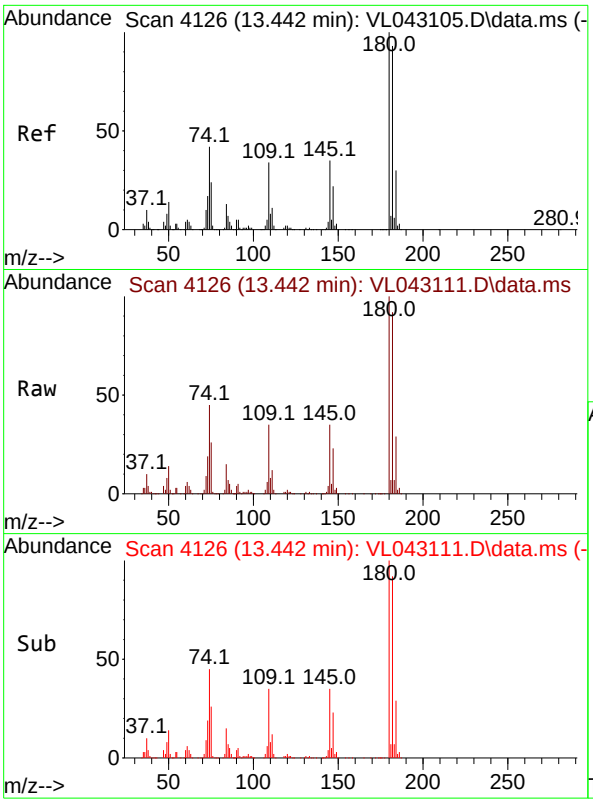


#80
Naphthalene,2-methyl-
Concen: 17.384 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:142 Resp: 212784

Ion	Ratio	Lower	Upper
142	100		
141	81.9	64.6	97.0
115	39.4	30.2	45.4

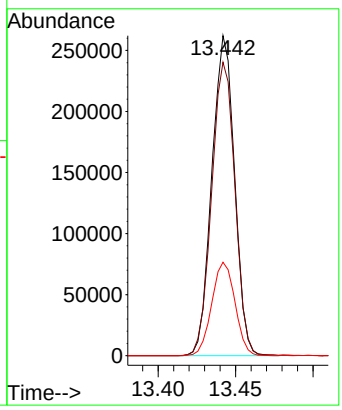




#81
1,2,4-Trichlorobenzene
Concen: 13.698 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:180 Resp: 26671

Ion	Ratio	Lower	Upper
180	100		
182	94.2	75.5	113.3
184	30.0	23.9	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043112.D
Acq On : 14 Oct 2025 14:51
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	97563	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	325610	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	291676	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	229010	10.101	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	130726	9.425	ppbv	98
3) Chlorodifluoromethane	1.479	51	138956	9.260	ppbv	99
4) Chloromethane	1.538	50	48722	8.867	ppbv	96
5) Vinyl Chloride	1.583	62	47005	8.722	ppbv	97
6) Bromomethane	1.670	94	26304	8.901	ppbv	98
7) Chloroethane	1.709	64	19138	8.685	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	107147	9.558	ppbv	99
9) Propene	1.486	41	59287	8.908	ppbv	98
10) Heptane	4.991	43	165341	8.629	ppbv	99
11) Trichlorofluoromethane	1.881	101	132447	9.762	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	102449	9.380	ppbv	98
13) Ethanol	1.725	45	17659m	7.173	ppbv	
14) Bromoethene	1.787	108	37835	9.324	ppbv	100
15) Acetone	1.839	43	108010	8.214	ppbv	99
16) 1,3-Butadiene	1.612	39	55493	8.855	ppbv	98
17) tert-Butyl alcohol	2.043	59	162672	9.012	ppbv	97
18) 1,1-Dichloroethene	2.039	96	46544	9.774	ppbv	93
19) Isopropyl Alcohol	1.887	45	67552	8.248	ppbv	97
20) Methylene Chloride	2.065	84	40319	7.757	ppbv	89
21) Allyl Chloride	2.101	41	88965	9.181	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	51295	9.011	ppbv	93
23) Vinyl Acetate	2.467	43	185329	9.621	ppbv	98
24) 1,1-Dichloroethane	2.415	63	102877	9.355	ppbv	98
25) Ethyl Acetate	2.839	43	292399	8.966	ppbv	100
26) Hexane	2.832	57	135463	9.015	ppbv	97
27) Carbon Disulfide	2.156	76	131064	9.520	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	67260	9.839	ppbv	97
29) Chloroform	2.852	83	204925	9.412	ppbv	95
30) Cyclohexane	3.865	84	119287	9.096	ppbv	96
31) cis-1,2-Dichloroethene	2.725	61	137462	9.580	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	219167	9.666	ppbv	98
34) 2-Butanone	2.560	43	188755	8.624	ppbv	99
35) Carbon Tetrachloride	3.771	117	217678	9.298	ppbv	96
36) Benzene	3.664	78	278365	9.077	ppbv	97
37) 1,2-Dichloroethane	3.224	62	161750	9.156	ppbv	98
38) Trichloroethene	4.557	130	108261	8.453	ppbv	96
39) 1,2-Dichloropropane	4.321	63	100580	8.971	ppbv	96
40) 1,4-Dioxane	4.587	88	41464	8.265	ppbv #	95
41) Tetrahydrofuran	3.056	42	104701	8.553	ppbv	99
42) Bromodichloromethane	4.496	83	228288	9.336	ppbv	96
43) Methyl Methacrylate	4.884	69	138593	8.898	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	452117	8.738	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	142964	9.146	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043112.D
Acq On : 14 Oct 2025 14:51
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	170038	9.106	ppbv		95
47) 1,1,2-Trichloroethane	6.590	97	108965	9.000	ppbv		96
48) Dibromochloromethane	7.396	129	184757	9.127	ppbv		100
49) Bromoform	9.490	173	147759	8.980	ppbv		100
50) 4-Methyl-2-Pentanone	5.752	43	263070	8.709	ppbv		100
51) 2-Hexanone	7.441	43	203876	8.999	ppbv	#	99
52) Tetrachloroethene	8.231	164	96000	8.681	ppbv		97
53) Toluene	6.943	91	324944	8.928	ppbv		100
54) 1,2-Dibromoethane	7.661	107	167936	8.856	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.933	131	166059	9.031	ppbv		98
57) Chlorobenzene	8.930	112	239309	8.770	ppbv		99
58) Ethyl Benzene	9.361	91	450029	8.990	ppbv		99
59) m/p-Xylene	9.558	91	715191m	17.913	ppbv		
60) o-Xylene	9.969	91	348346	8.834	ppbv		100
61) Styrene	9.878	104	161979	9.099	ppbv		98
62) Isopropylbenzene	10.545	105	621758	8.726	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	215911	8.177	ppbv		100
64) n-propylbenzene	10.995	120	160411	8.503	ppbv		94
65) tert-Butylbenzene	11.536	119	532570	8.464	ppbv		98
66) Benzyl Chloride	11.620	91	58169	8.306	ppbv		98
67) sec-Butylbenzene	11.772	105	762711	8.541	ppbv		98
69) p-Isopropyltoluene	11.930	119	638261	8.411	ppbv		99
70) n-Butylbenzene	12.286	91	641547	8.579	ppbv		99
71) 2-Chlorotoluene	10.904	91	479799	8.828	ppbv		99
72) 4-Ethyltoluene	11.128	105	427034	8.807	ppbv		99
73) 1,3,5-Trimethylbenzene	11.209	105	354875	8.874	ppbv		95
74) 1,2,4-Trimethylbenzene	11.542	105	372506	8.324	ppbv		92
75) 1,3-Dichlorobenzene	11.610	146	219423	8.454	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	221364	8.458	ppbv		99
77) 1,2-Dichlorobenzene	11.953	146	204178	8.132	ppbv		98
78) Hexachloro-1,3-Butadiene	13.885	225	144646	7.440	ppbv		99
79) Naphthalene	13.516	128	389814	8.334	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	123632	10.146	ppbv		97
81) 1,2,4-Trichlorobenzene	13.445	180	162553	8.373	ppbv		98

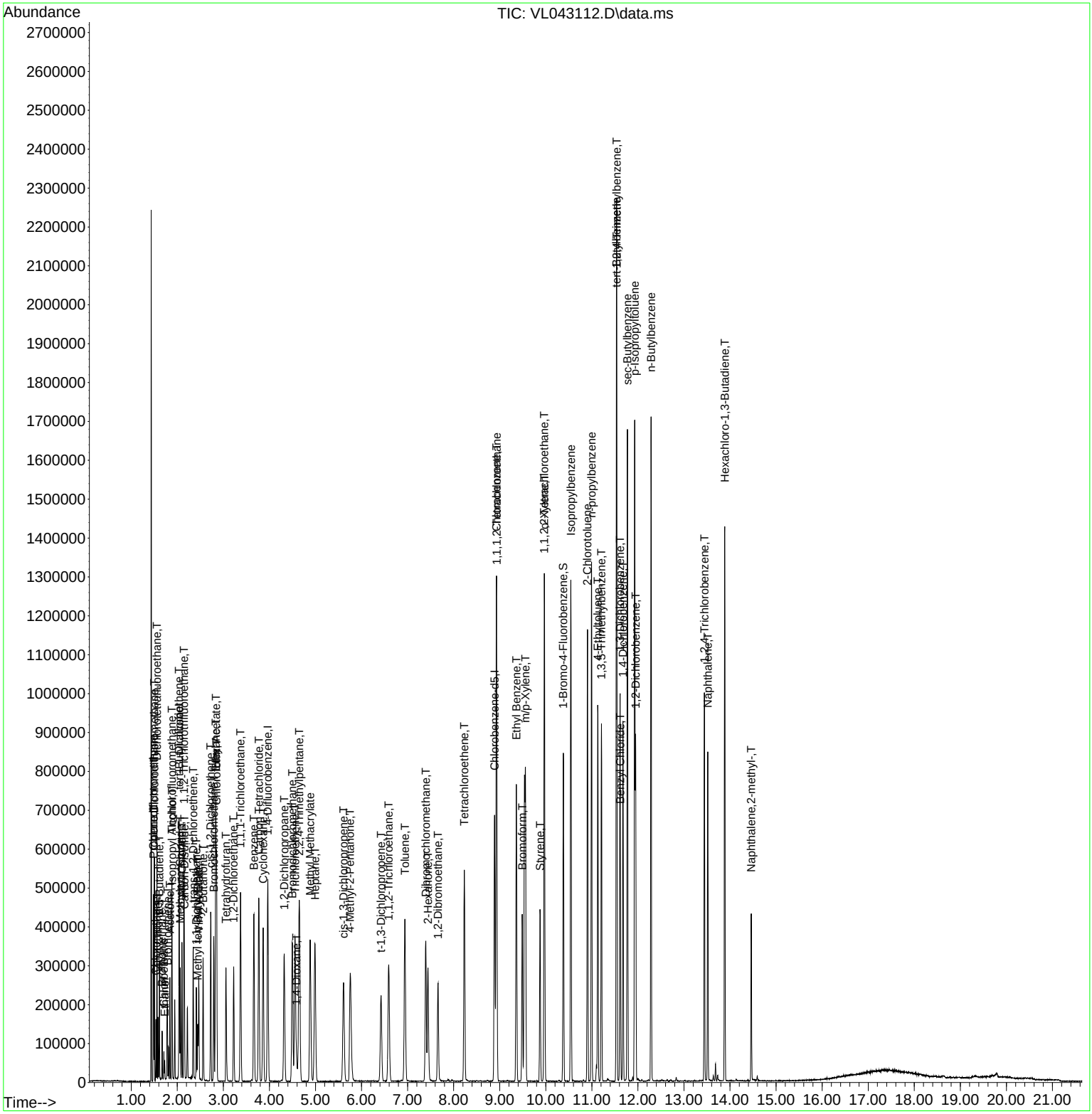
(#) = qualifier out of range (m) = manual integration (+) = signals summed

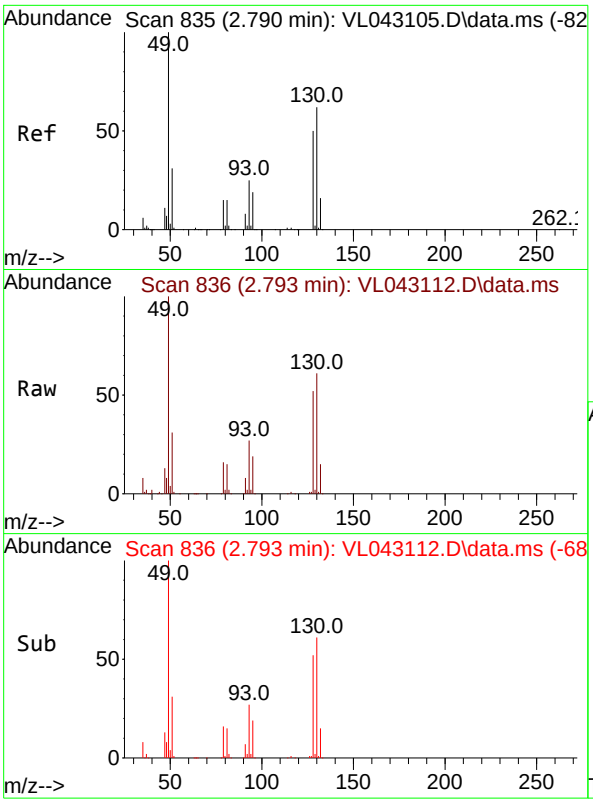
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043112.D
Acq On : 14 Oct 2025 14:51
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

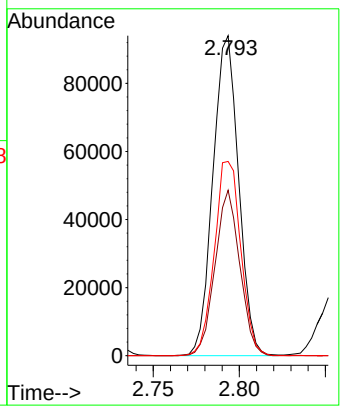




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 49 Resp: 9756

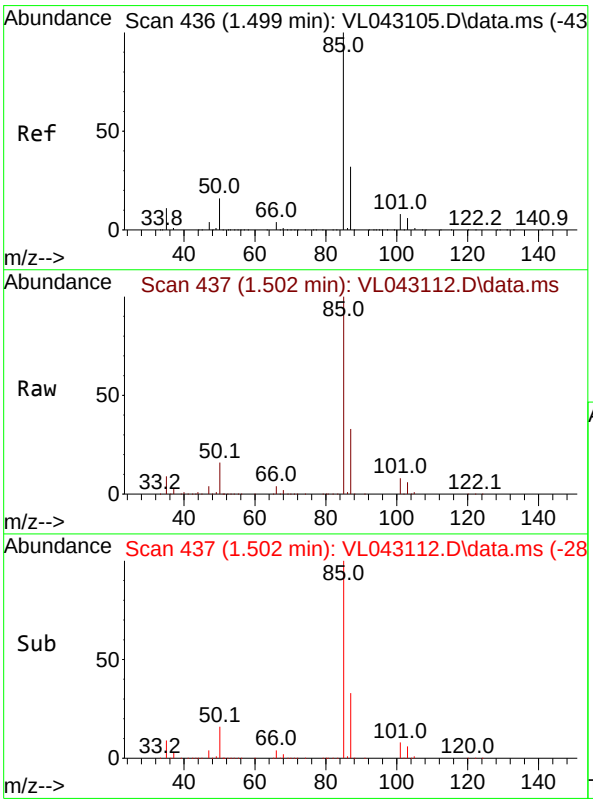
Ion	Ratio	Lower	Upper
49	100		
128	50.0	24.4	73.4
130	62.8	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
APPROVED

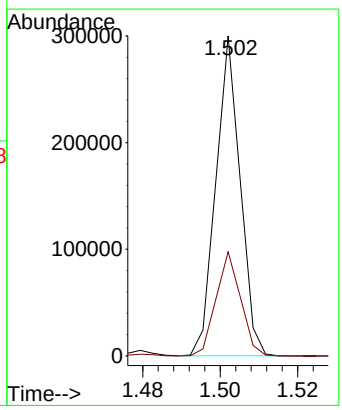
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

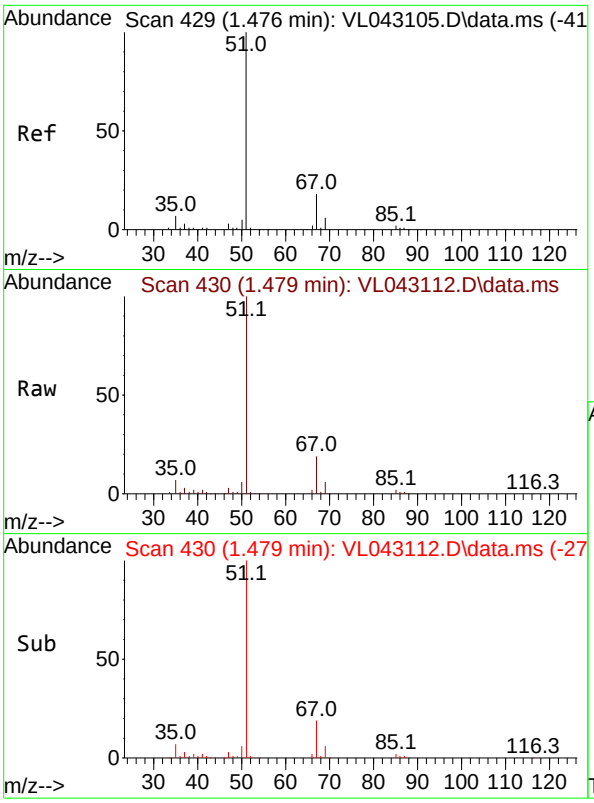


#2
Dichlorodifluoromethane
Concen: 9.425 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 130726

Ion	Ratio	Lower	Upper
85	100		
87	32.6	25.3	37.9

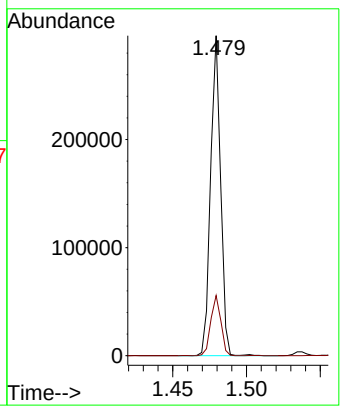




#3
Chlorodifluoromethane
Concen: 9.260 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 51 Resp: 13895

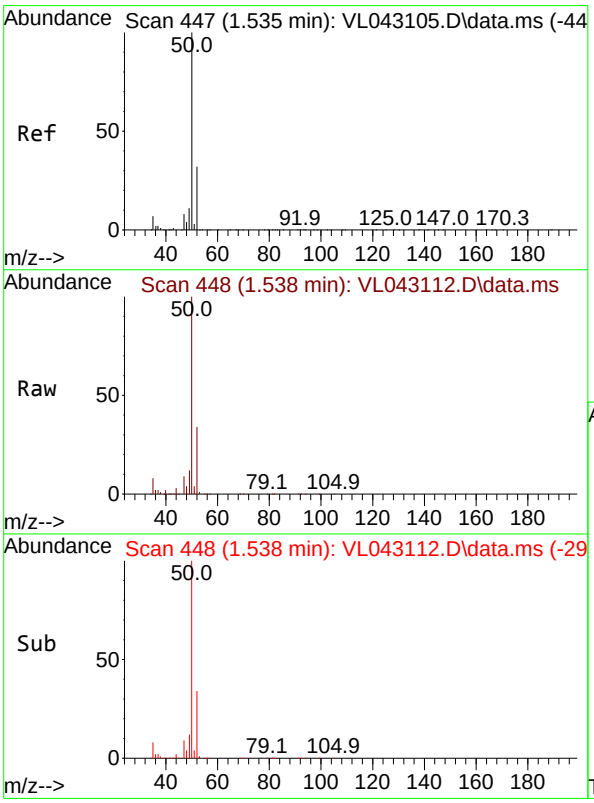
Ion	Ratio	Lower	Upper
51	100		
67	19.1	15.1	22.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
APPROVED

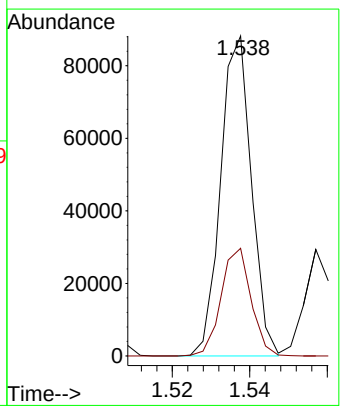
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

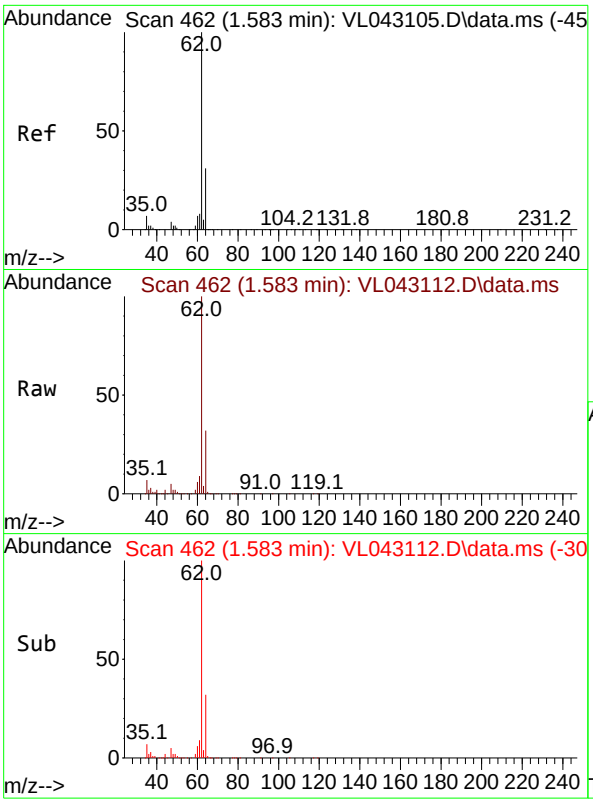


#4
Chloromethane
Concen: 8.867 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 50 Resp: 48722

Ion	Ratio	Lower	Upper
50	100		
52	33.4	25.2	37.8

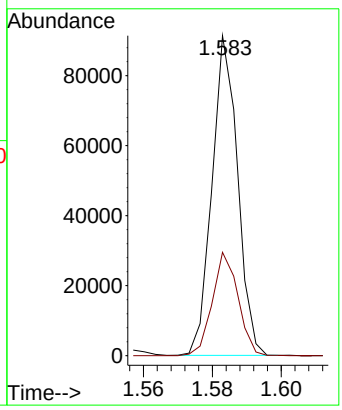




#5
Vinyl Chloride
Concen: 8.722 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 62 Resp: 4700

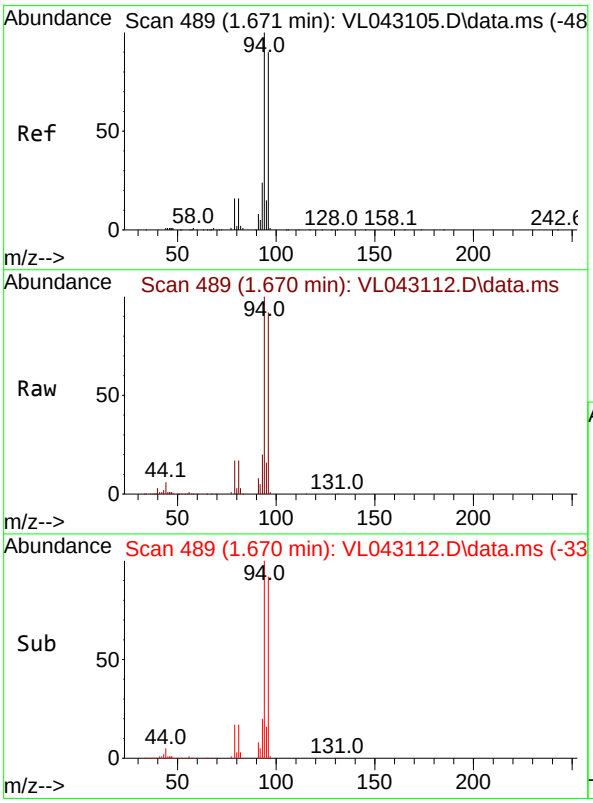
Ion	Ratio	Lower	Upper
62	100		
64	32.3	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
APPROVED

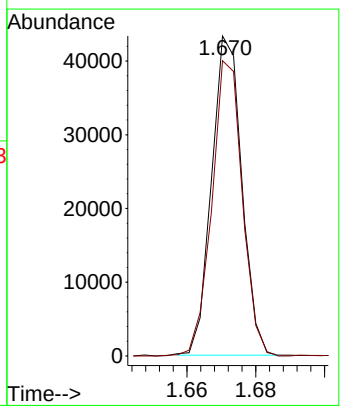
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

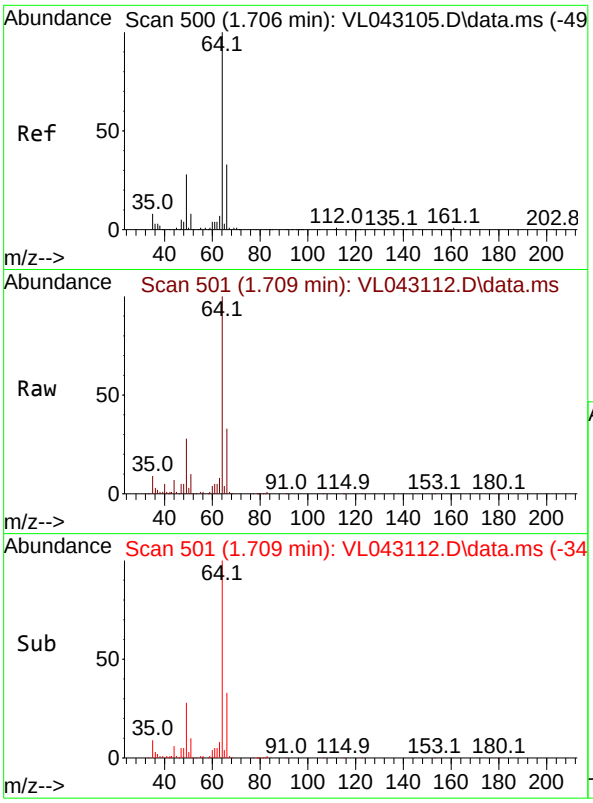


#6
Bromomethane
Concen: 8.901 ppbv
RT: 1.670 min Scan# 489
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 94 Resp: 26304

Ion	Ratio	Lower	Upper
94	100		
96	92.5	72.2	108.4

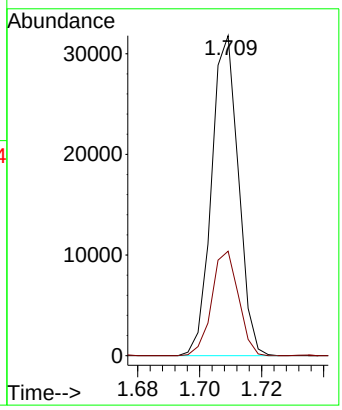




#7
Chloroethane
Concen: 8.685 ppbv
RT: 1.709 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 64 Resp: 1913

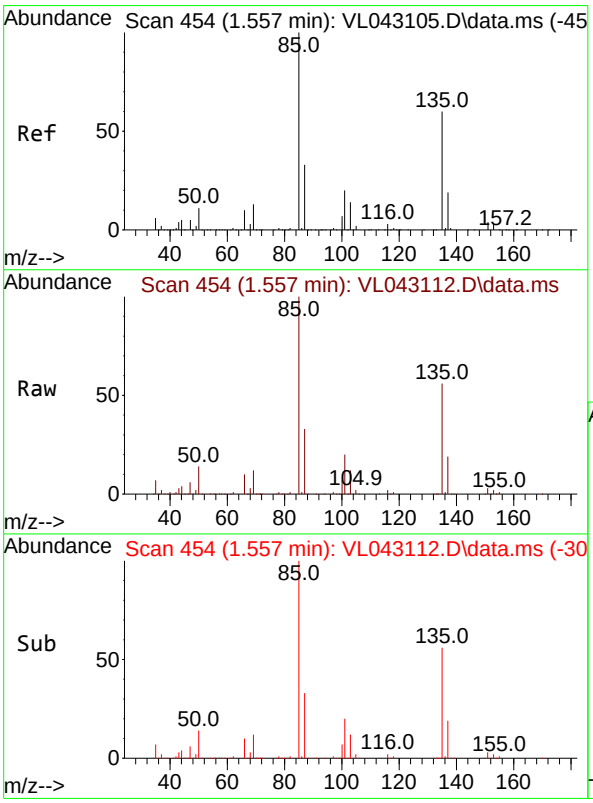
Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.0	39.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
APPROVED

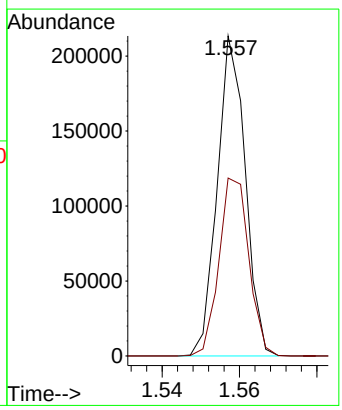
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

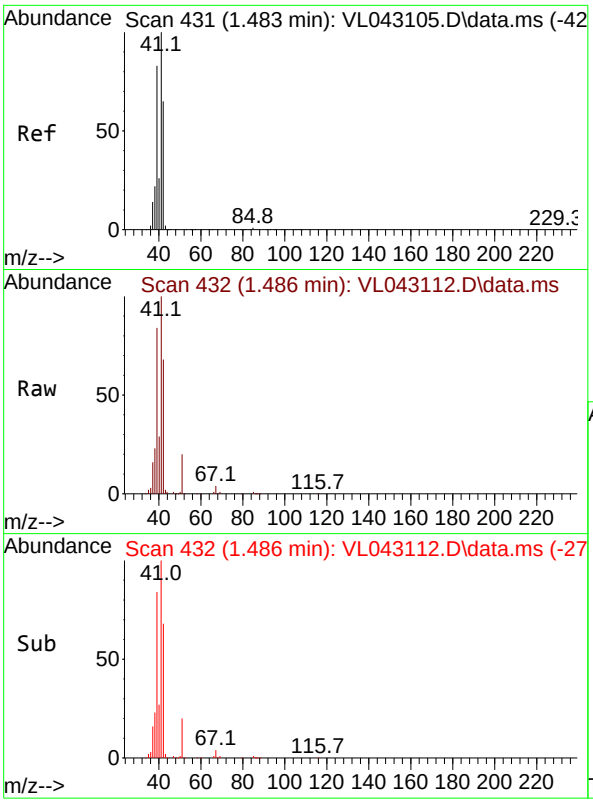


#8
Dichlorotetrafluoroethane
Concen: 9.558 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 107147

Ion	Ratio	Lower	Upper
85	100		
135	59.5	48.2	72.4

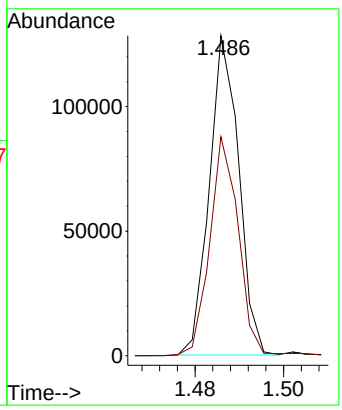




#9
Propene
Concen: 8.908 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 41 Resp: 5928

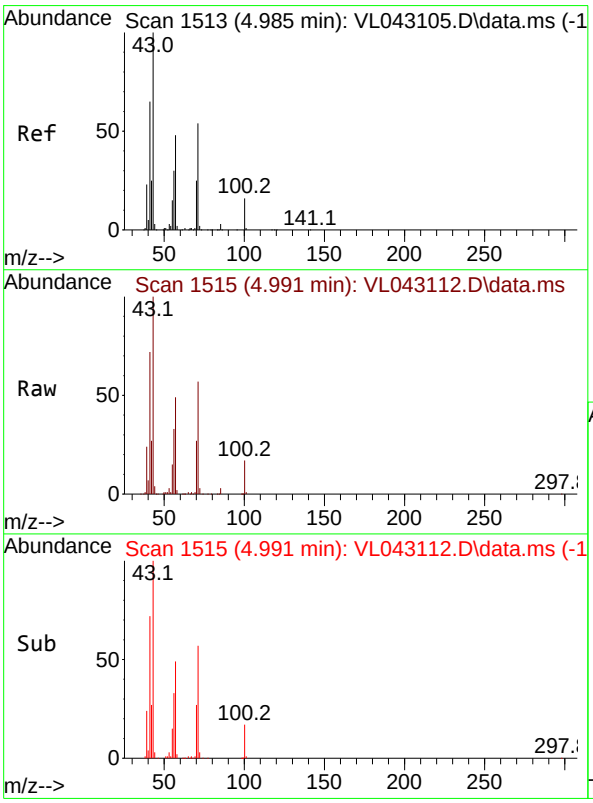
Ion	Ratio	Lower	Upper
41	100		
42	67.3	55.1	82.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
APPROVED

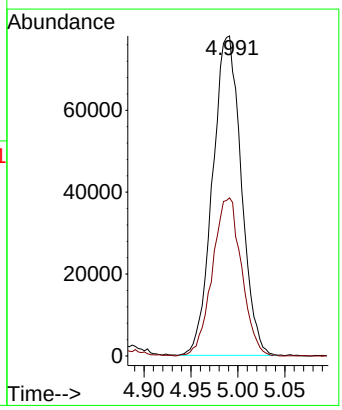
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

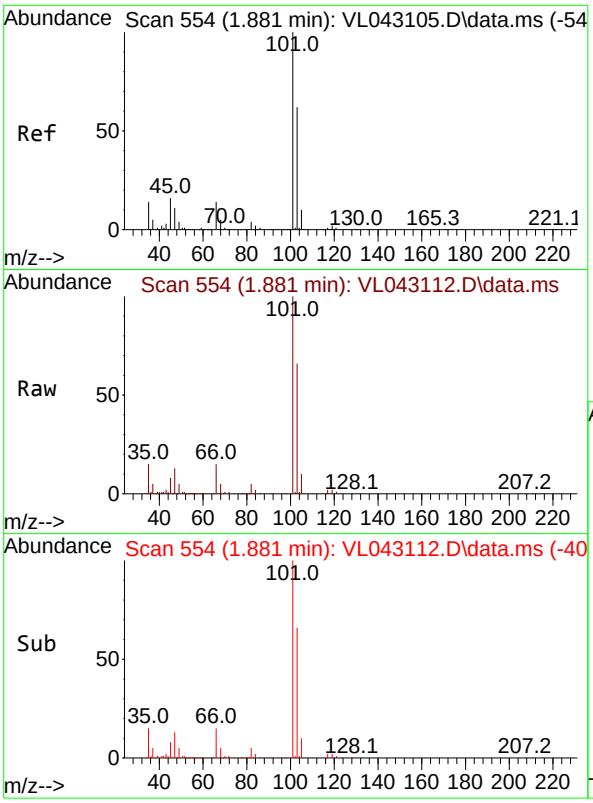


#10
Heptane
Concen: 8.629 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 165341

Ion	Ratio	Lower	Upper
43	100		
57	50.4	40.8	61.2

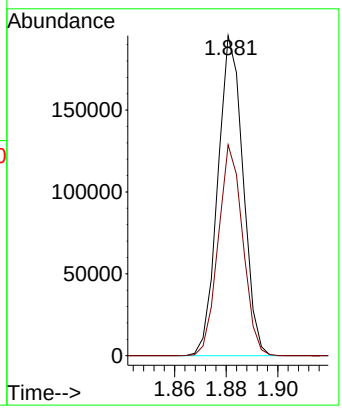




#11
Trichlorofluoromethane
Concen: 9.762 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:101 Resp: 13244

Ion	Ratio	Lower	Upper
101	100		
103	65.9	49.3	73.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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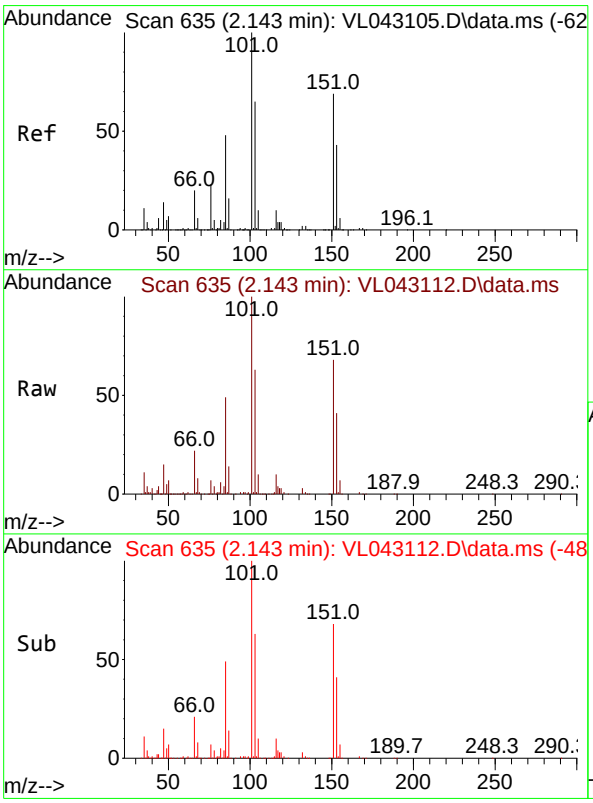
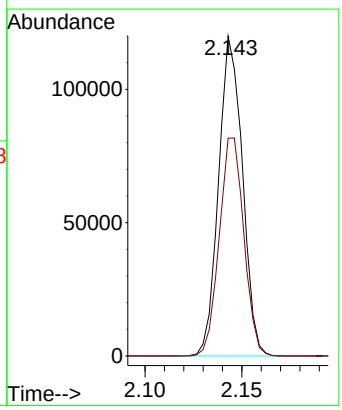
Supervised By :Mahesh Dadoda 10/16/2025

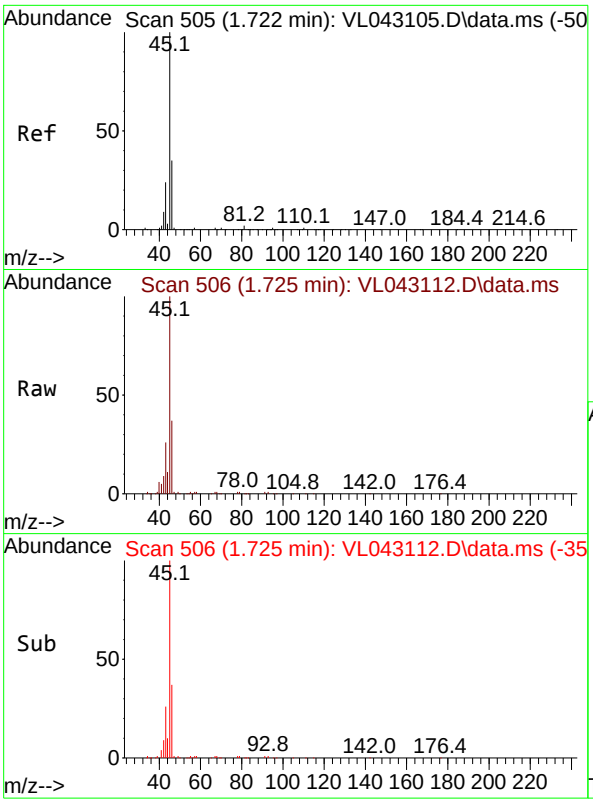


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.380 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:101 Resp: 102449

Ion	Ratio	Lower	Upper
101	100		
151	70.4	54.7	82.1

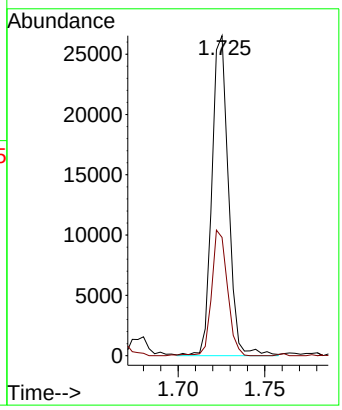




#13
Ethanol
Concen: 7.173 ppbv m
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 45 Resp: 1765

Ion	Ratio	Lower	Upper
45	100		
46	37.4	14.7	58.9



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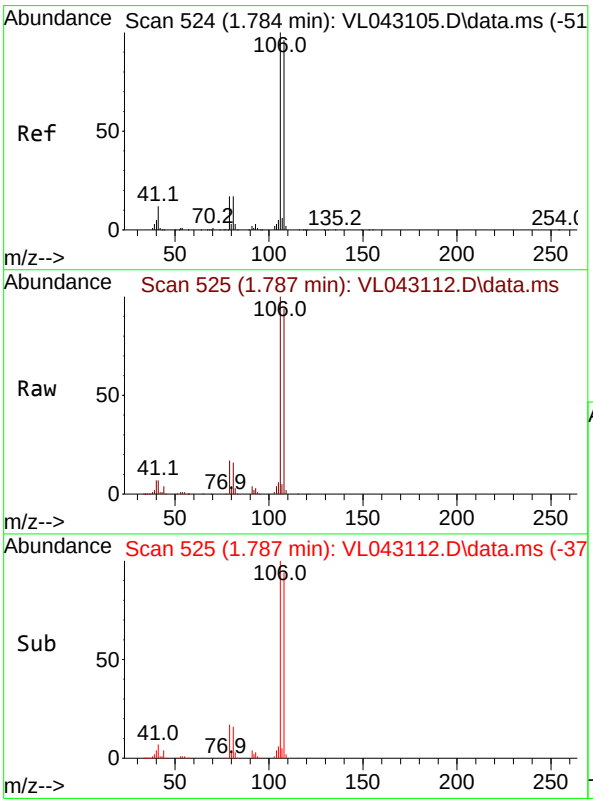
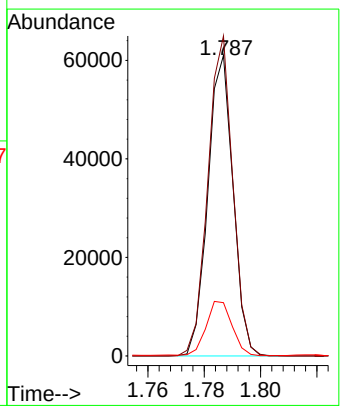
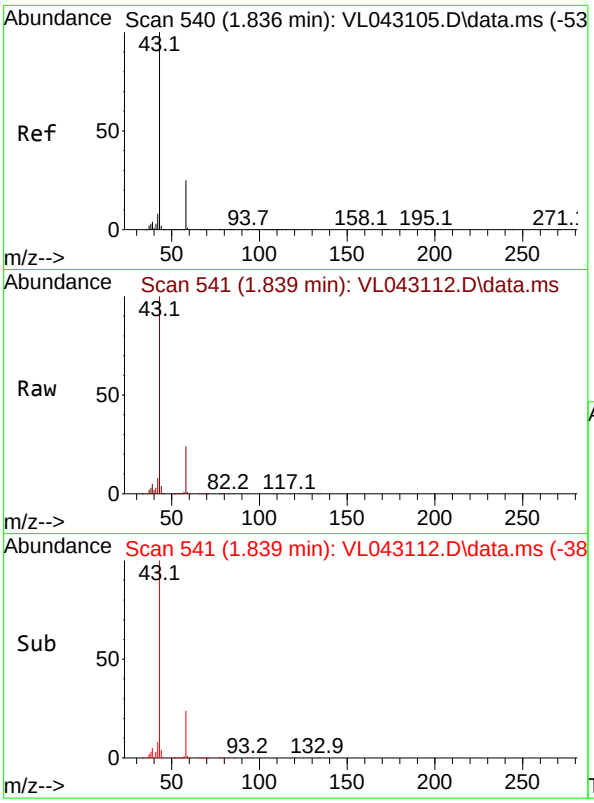


#14
Bromoethene
Concen: 9.324 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:108 Resp: 37835

Ion	Ratio	Lower	Upper
108	100		
106	105.3	84.4	126.6
79	18.7	15.3	22.9

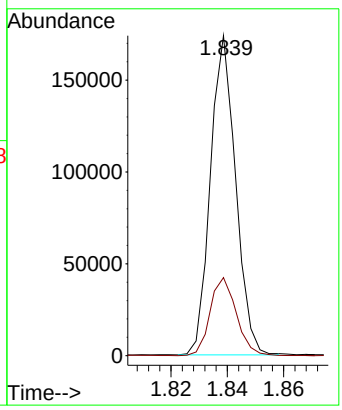




#15
Acetone
Concen: 8.214 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 10801

Ion	Ratio	Lower	Upper
43	100		
58	25.7	20.8	31.2



Instrument :
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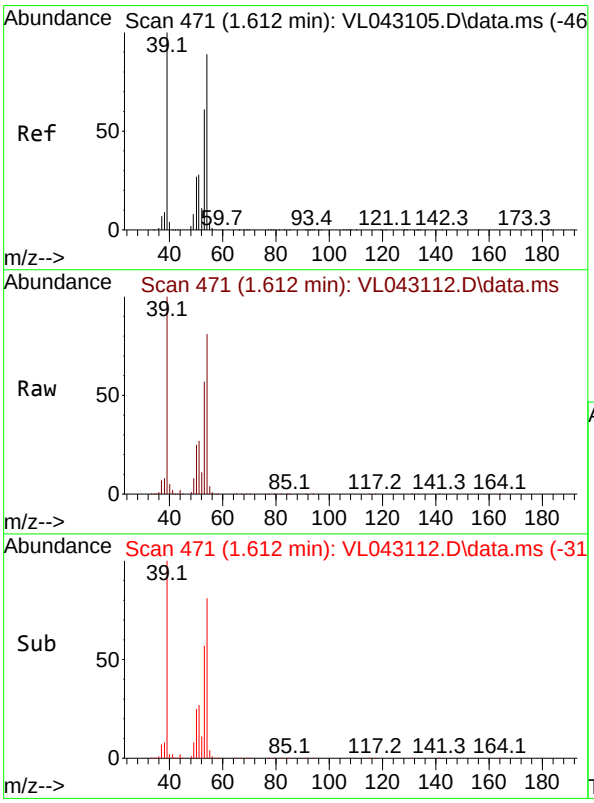
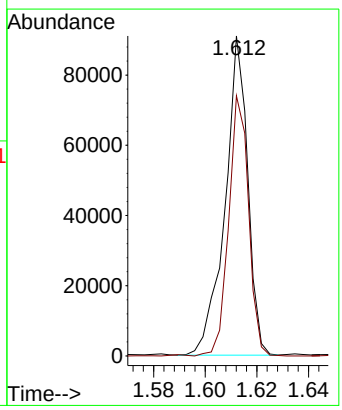
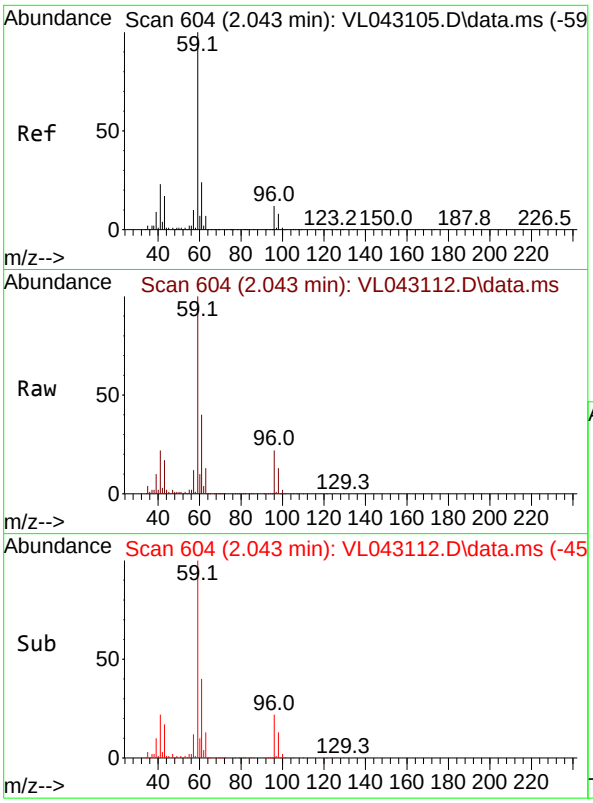


#16
1,3-Butadiene
Concen: 8.855 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 39 Resp: 55493

Ion	Ratio	Lower	Upper
39	100		
54	72.0	59.0	88.4

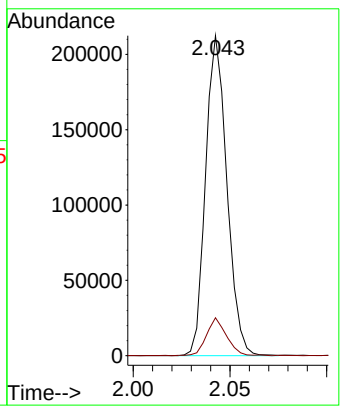




#17
tert-Butyl alcohol
Concen: 9.012 ppbv
RT: 2.043 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 59 Resp: 16267

Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.2	12.4



Instrument :
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ClientSampleId :
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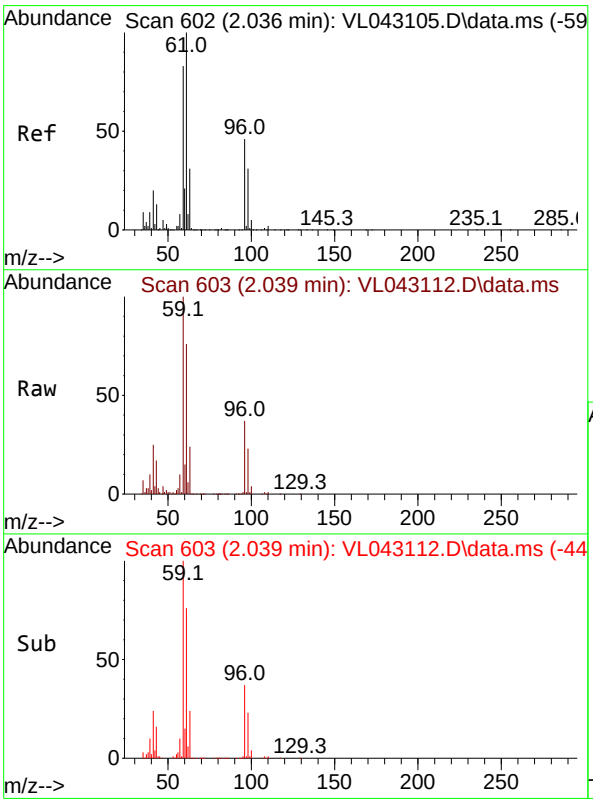
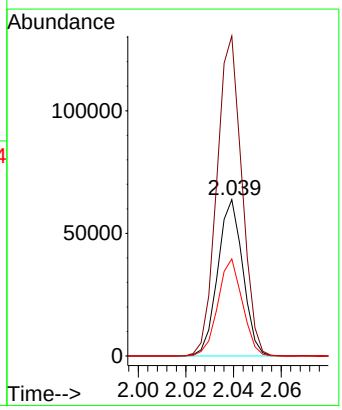
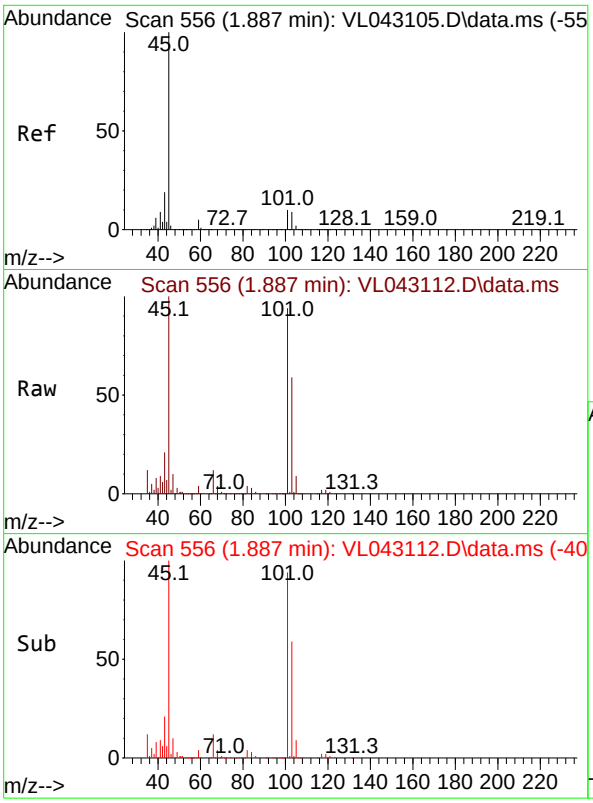


#18
1,1-Dichloroethene
Concen: 9.774 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 96 Resp: 46544

Ion	Ratio	Lower	Upper
96	100		
61	204.7	173.4	260.0
98	62.1	53.2	79.8

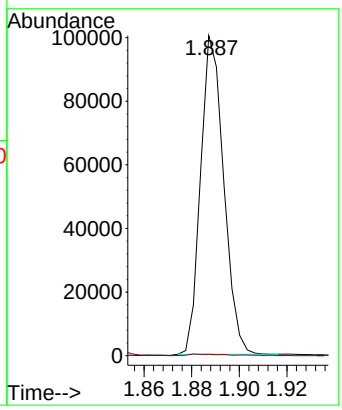




#19
Isopropyl Alcohol
Concen: 8.248 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 45 Resp: 6755

Ion	Ratio	Lower	Upper
45	100		
58	41.1	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
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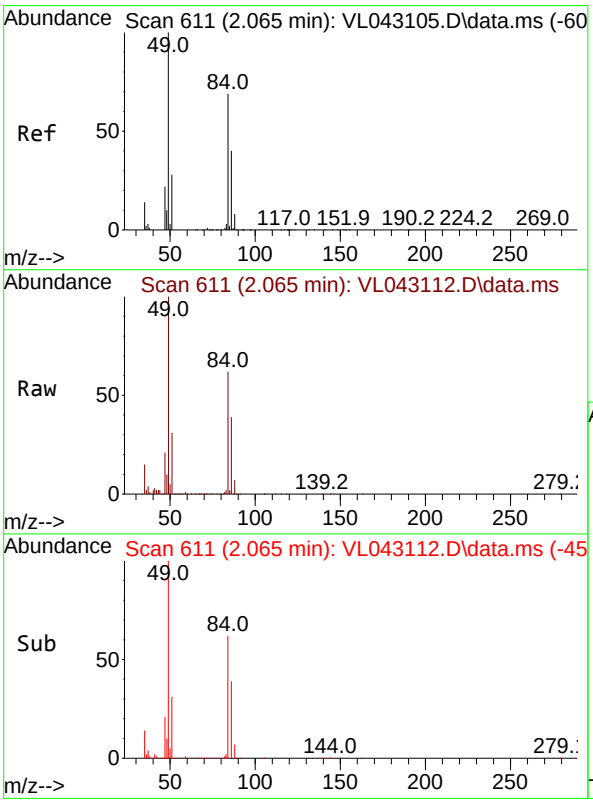
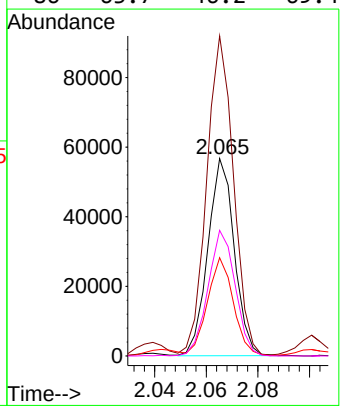
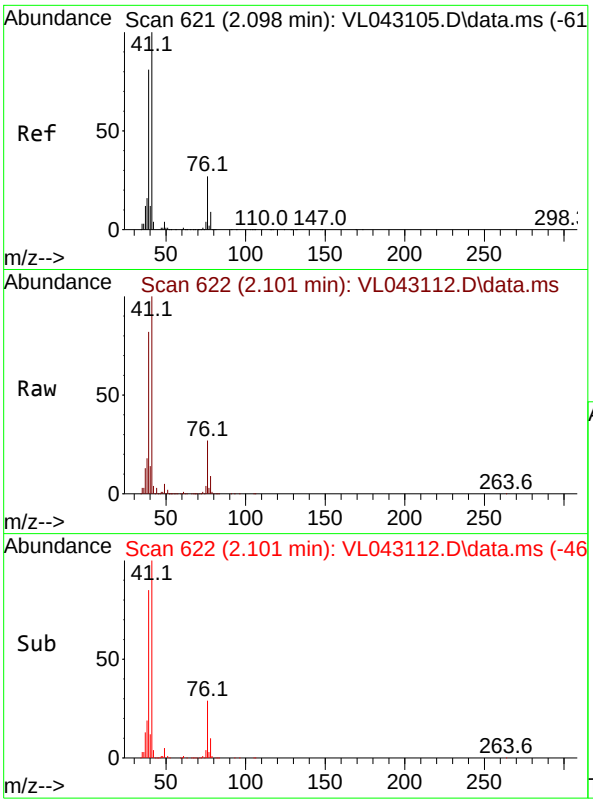


#20
Methylene Chloride
Concen: 7.757 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 84 Resp: 40319

Ion	Ratio	Lower	Upper
84	100		
49	161.4	116.6	175.0
51	49.4	34.8	52.2
86	63.7	46.2	69.4

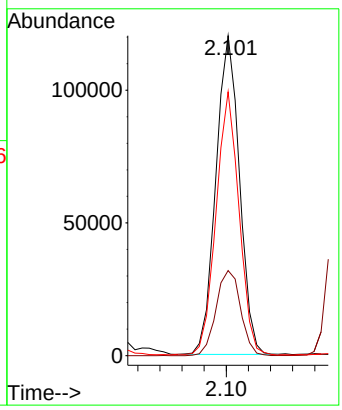




#21
Allyl Chloride
Concen: 9.181 ppbv
RT: 2.101 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 41 Resp: 8896

Ion	Ratio	Lower	Upper
41	100		
76	27.7	21.5	32.3
39	80.2	60.8	91.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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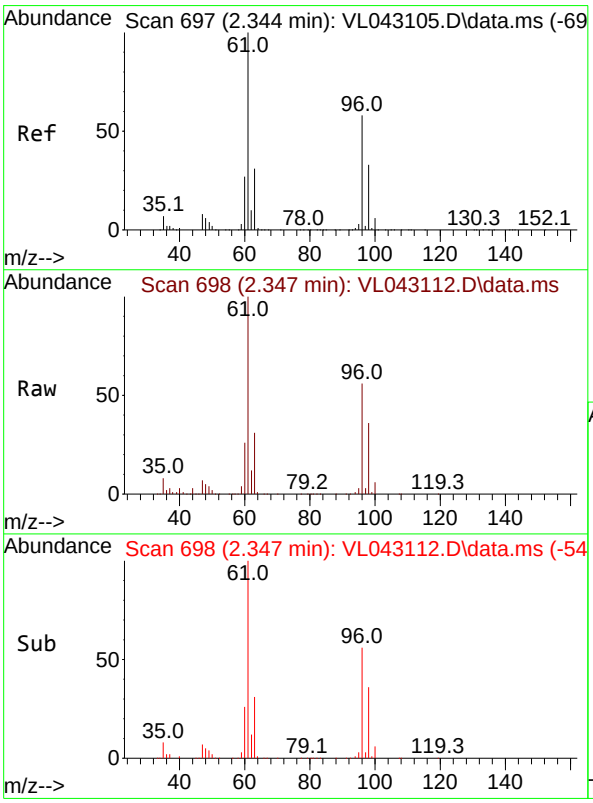
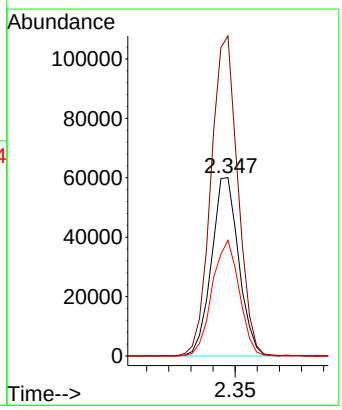
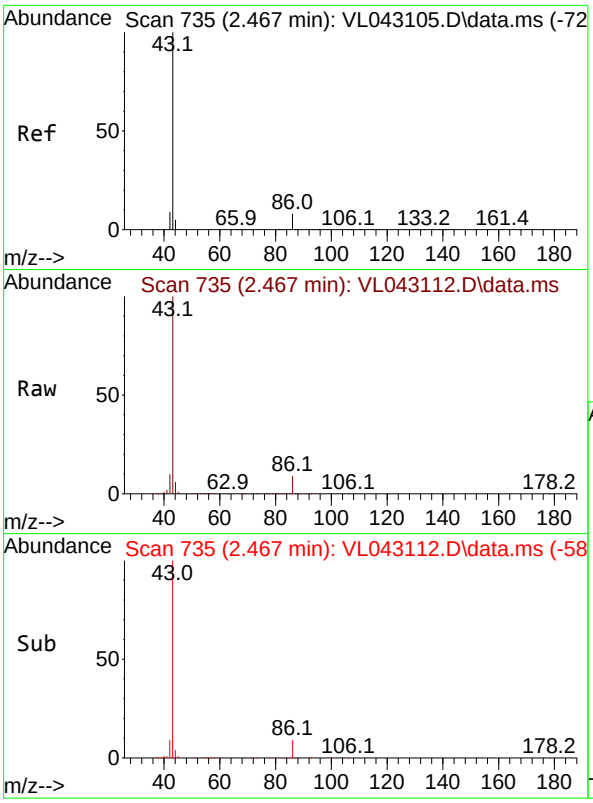


#22
trans-1,2-Dichloroethene
Concen: 9.011 ppbv
RT: 2.347 min Scan# 698
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 96 Resp: 51295

Ion	Ratio	Lower	Upper
96	100		
61	179.2	137.0	205.6
98	64.8	45.5	68.3

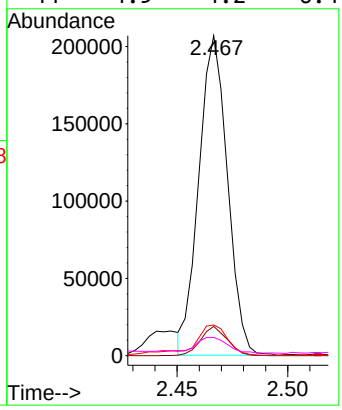




#23
Vinyl Acetate
Concen: 9.621 ppbv
RT: 2.467 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 18532

Ion	Ratio	Lower	Upper
43	100		
86	9.2	6.2	9.2
42	9.5	7.6	11.4
44	4.9	4.2	6.4



Instrument :
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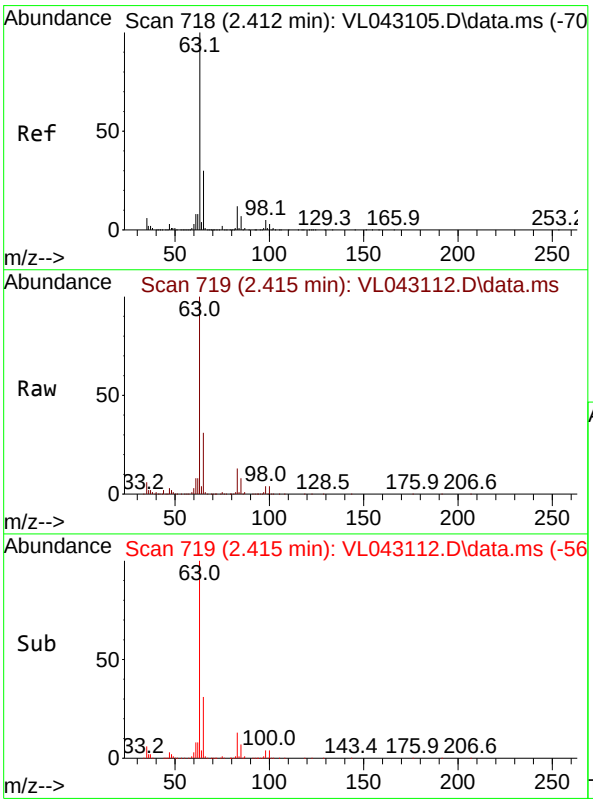
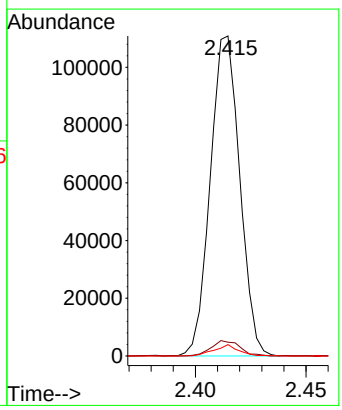
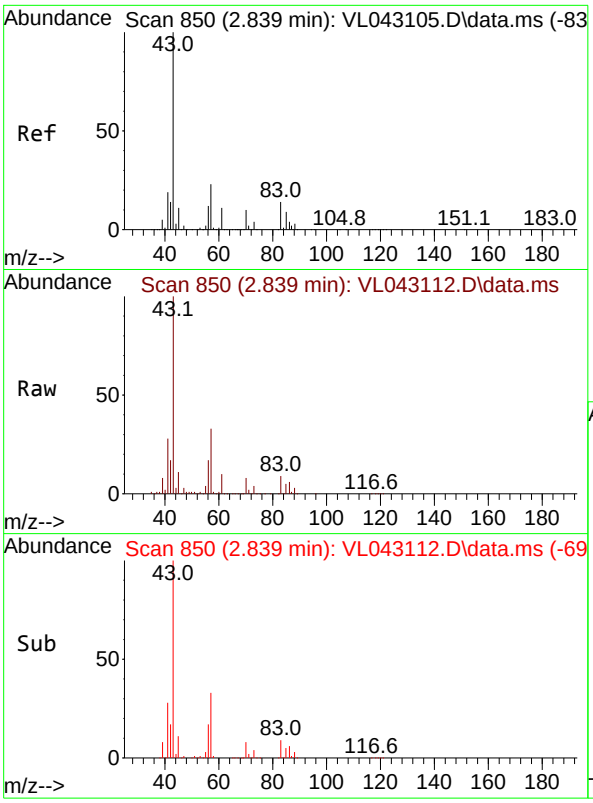


#24
1,1-Dichloroethane
Concen: 9.355 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 63 Resp: 102877

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.6	7.8
100	3.5	1.5	4.4

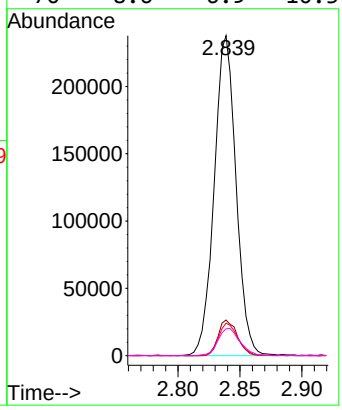




#25
Ethyl Acetate
Concen: 8.966 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 29239

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.8
61	9.0	7.0	10.6
70	8.6	6.9	10.3



Instrument :
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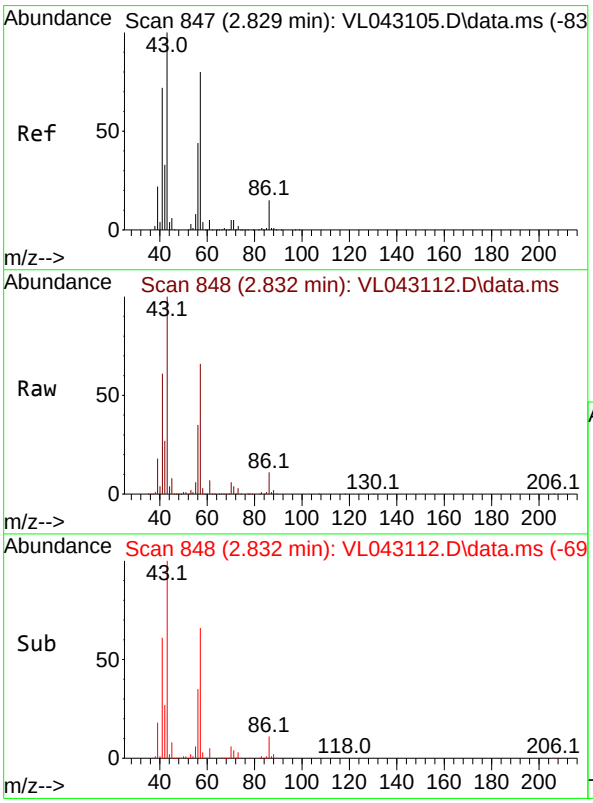
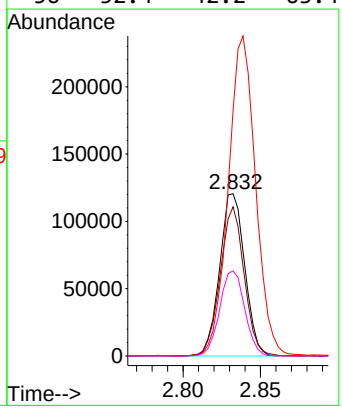
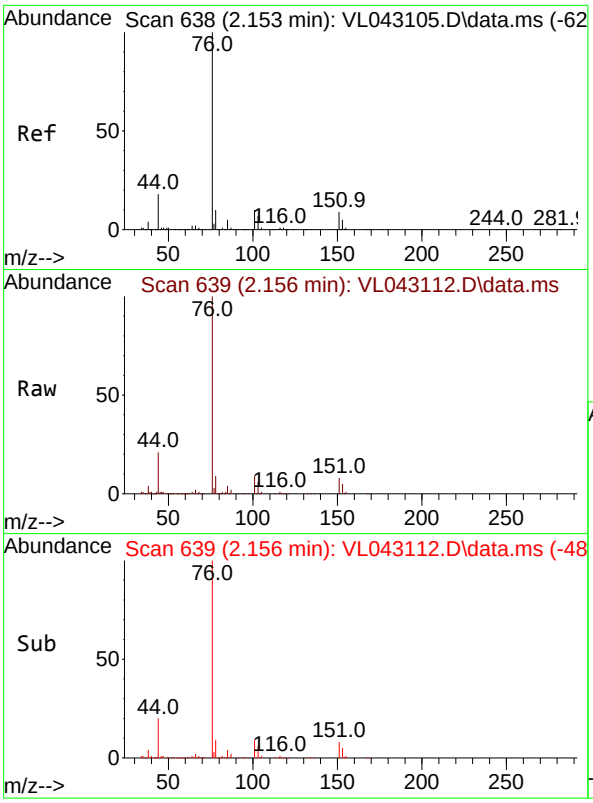


#26
Hexane
Concen: 9.015 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 57 Resp: 135463

Ion	Ratio	Lower	Upper
57	100		
41	88.9	71.4	107.0
43	216.8	178.5	267.7
56	52.4	42.2	63.4

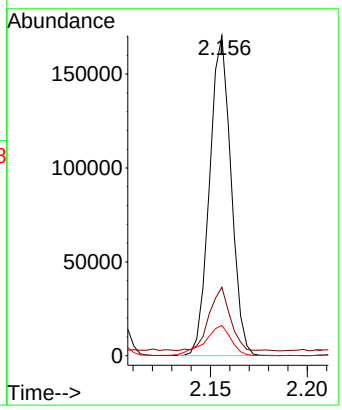




#27
Carbon Disulfide
Concen: 9.520 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 76 Resp: 13106

Ion	Ratio	Lower	Upper
76	100		
44	20.7	16.7	25.1
78	11.7	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
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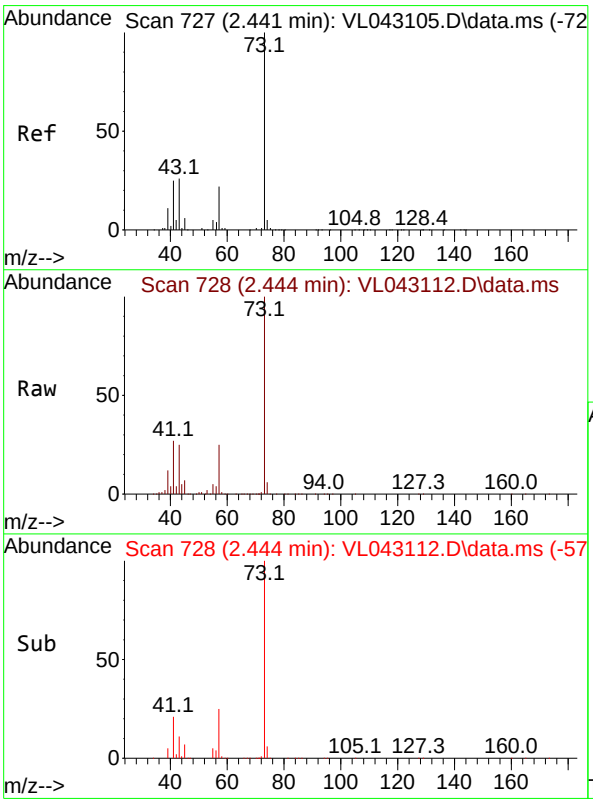
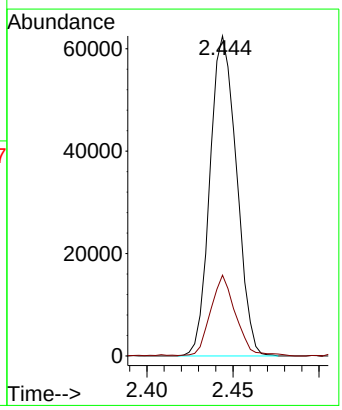
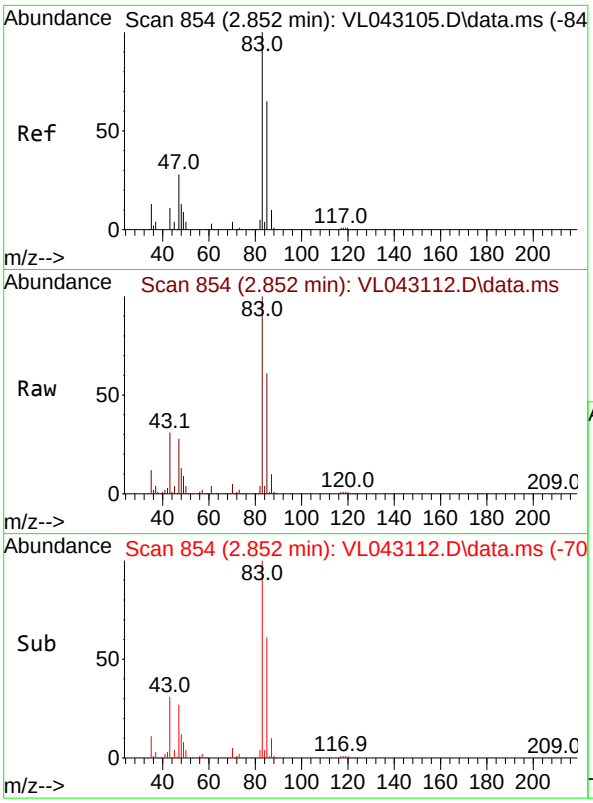


#28
Methyl tert-Butyl Ether
Concen: 9.839 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 73 Resp: 67260

Ion	Ratio	Lower	Upper
73	100		
57	24.1	20.5	30.7





#29
Chloroform
Concen: 9.412 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 83 Resp: 20492

Ion	Ratio	Lower	Upper
83	100		
85	61.0	51.8	77.6

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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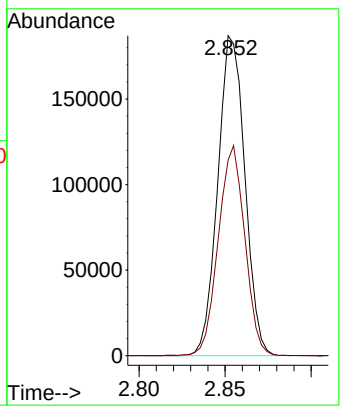
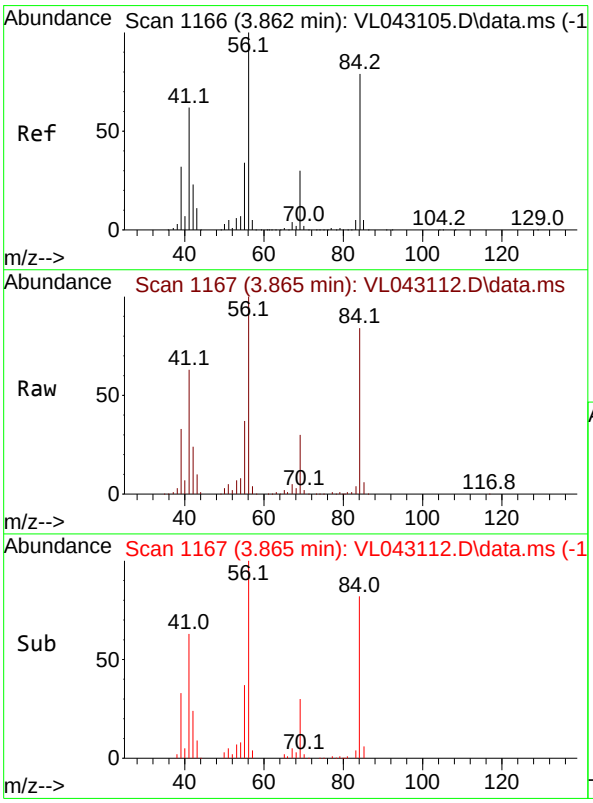
Supervised By :Mahesh Dadoda 10/16/2025

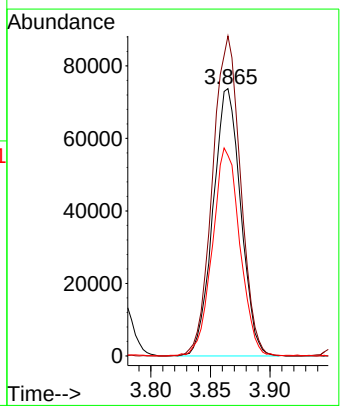


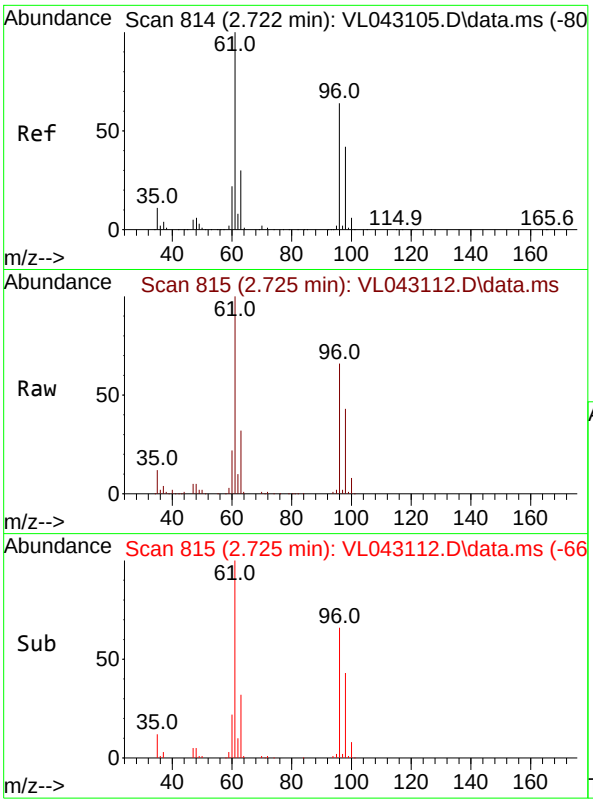


#30
Cyclohexane
Concen: 9.096 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 84 Resp: 119287

Ion	Ratio	Lower	Upper
84	100		
56	120.8	100.9	151.3
41	77.4	63.8	95.6

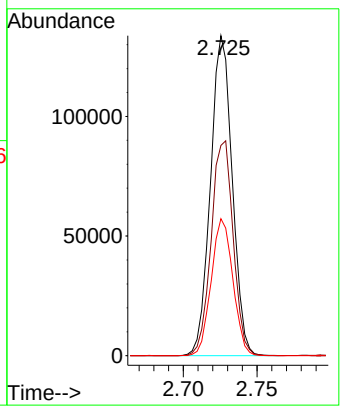




#31
cis-1,2-Dichloroethene
Concen: 9.580 ppbv
RT: 2.725 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 61 Resp: 13746

Ion	Ratio	Lower	Upper
61	100		
96	65.7	51.0	76.6
98	42.8	33.5	50.3



Instrument :
MSVOA_L
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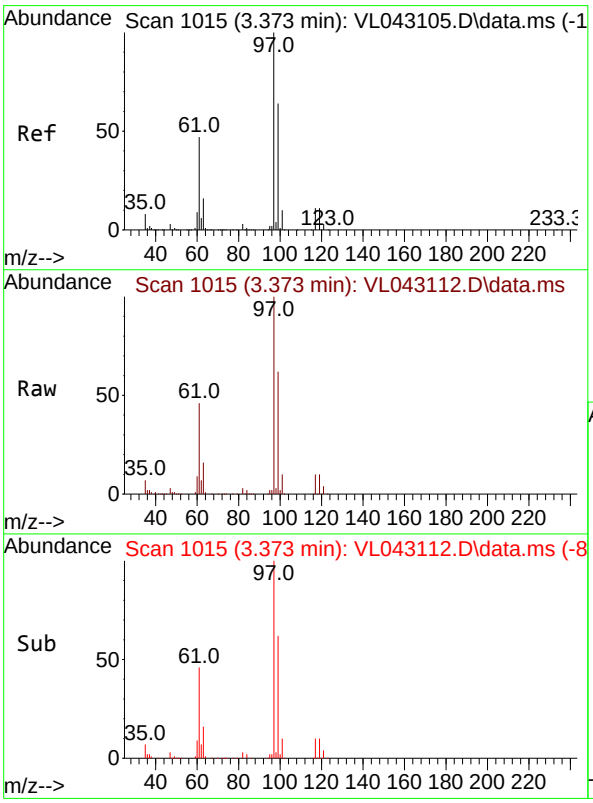
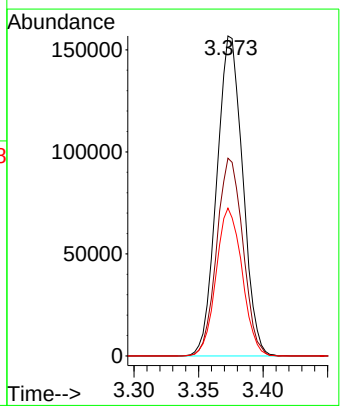
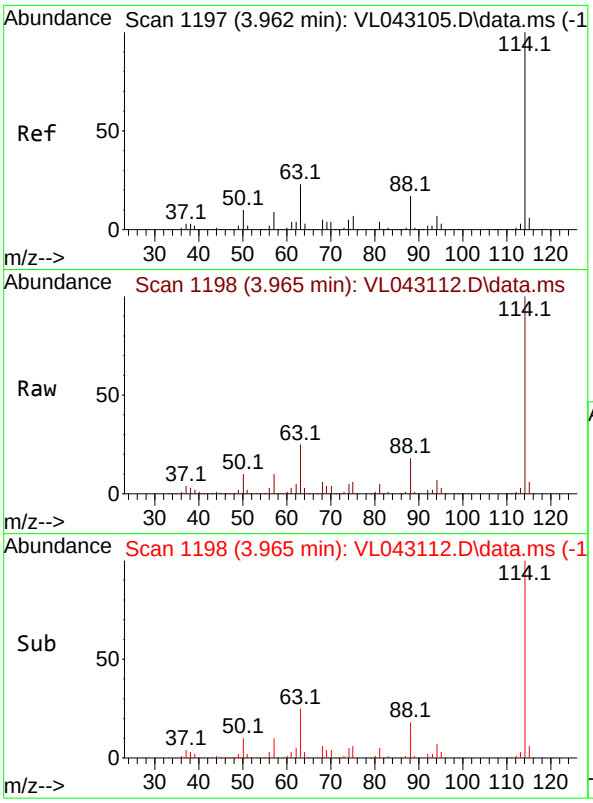


#32
1,1,1-Trichloroethane
Concen: 9.666 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 97 Resp: 219167

Ion	Ratio	Lower	Upper
97	100		
99	62.3	51.3	76.9
61	46.4	38.4	57.6

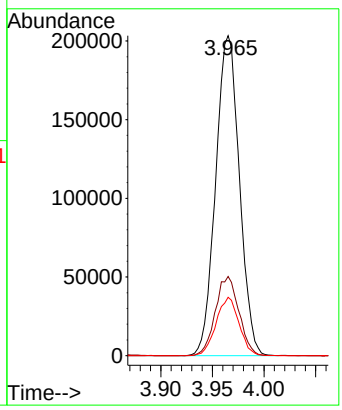




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:114 Resp: 32561

Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.3	28.9
88	17.6	13.9	20.9



Instrument :
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ClientSampleId :
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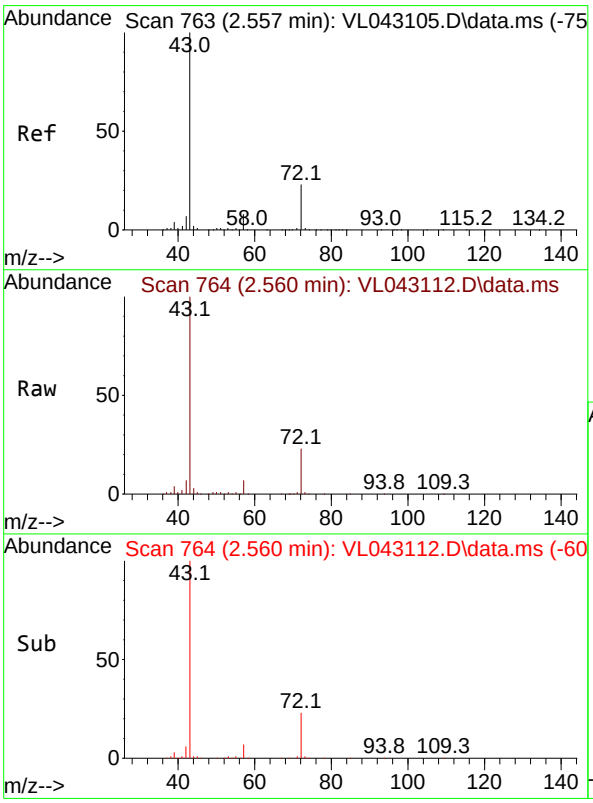
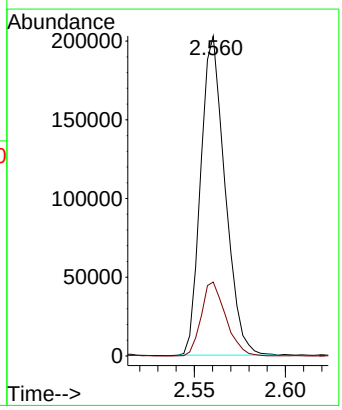
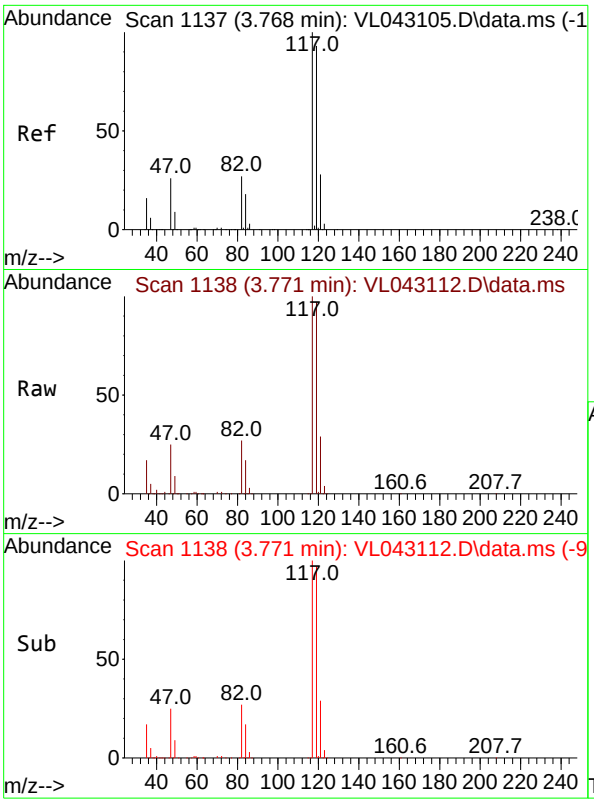


#34
2-Butanone
Concen: 8.624 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 188755

Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.4	27.6

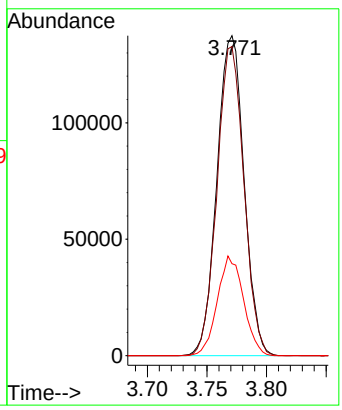




#35
Carbon Tetrachloride
Concen: 9.298 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:117 Resp: 21767

Ion	Ratio	Lower	Upper
117	100		
119	96.6	74.1	111.1
121	28.7	22.2	33.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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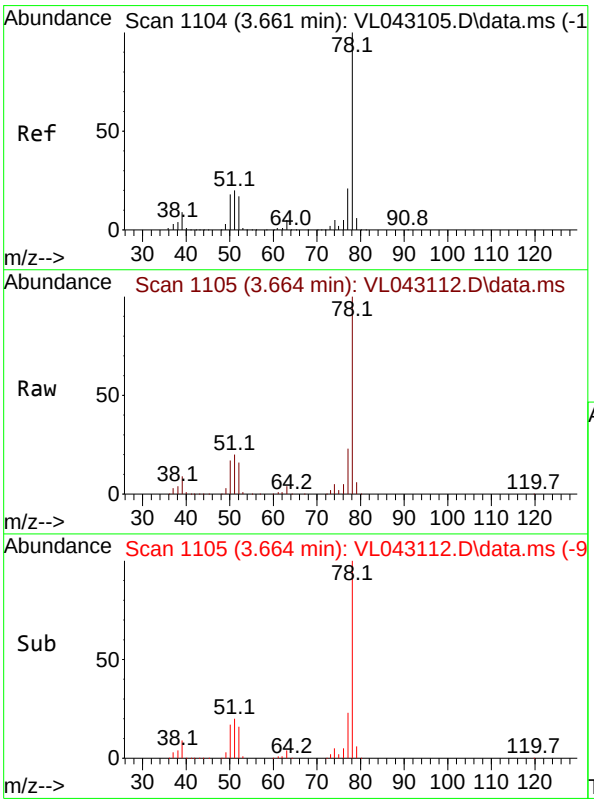
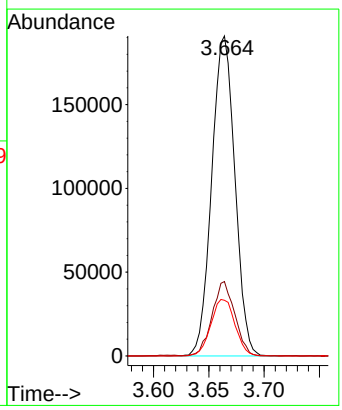
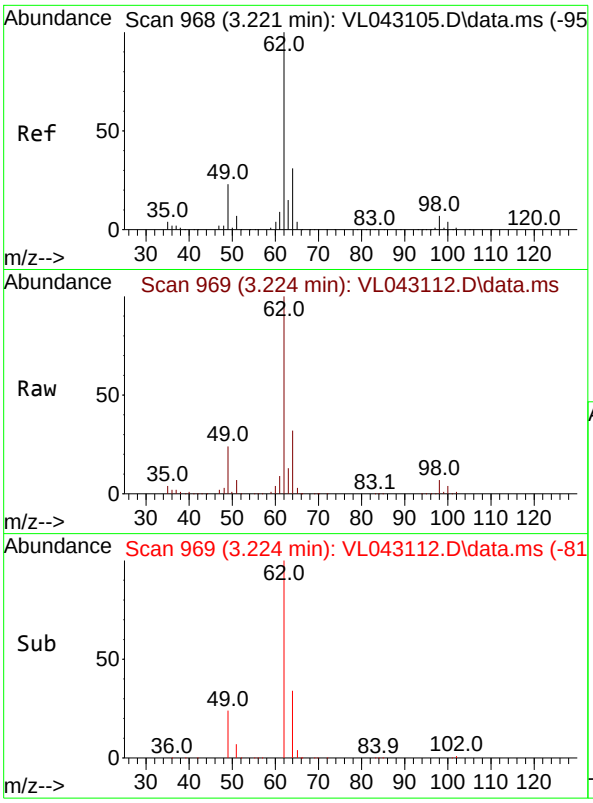


#36
Benzene
Concen: 9.077 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 78 Resp: 278365

Ion	Ratio	Lower	Upper
78	100		
77	23.2	17.0	25.6
50	17.4	14.6	22.0

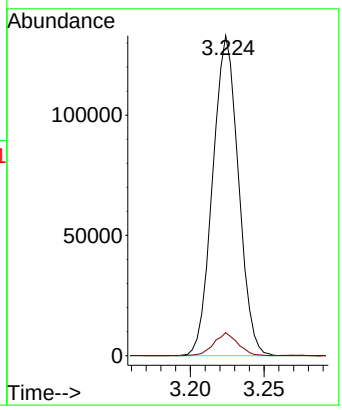




#37
1,2-Dichloroethane
Concen: 9.156 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 62 Resp: 16175

Ion	Ratio	Lower	Upper
62	100		
98	6.7	5.8	8.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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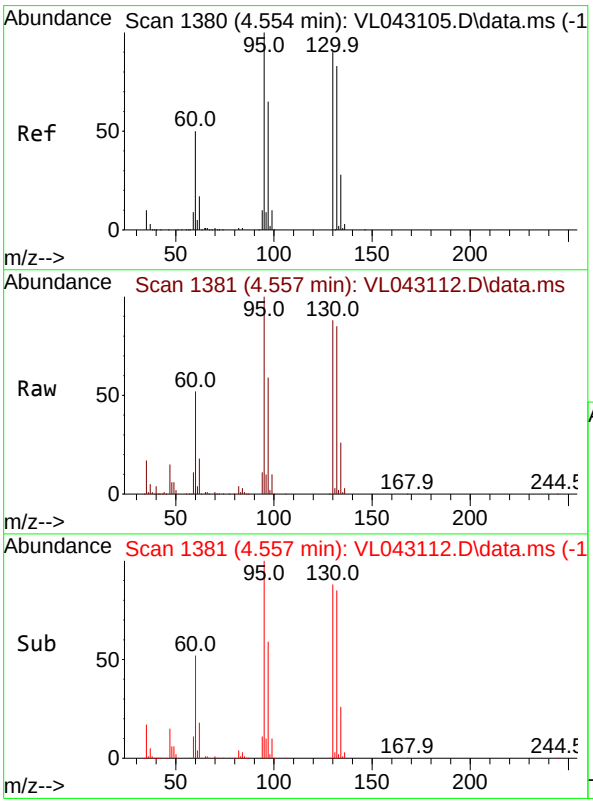
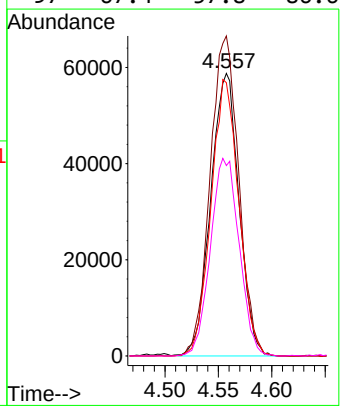
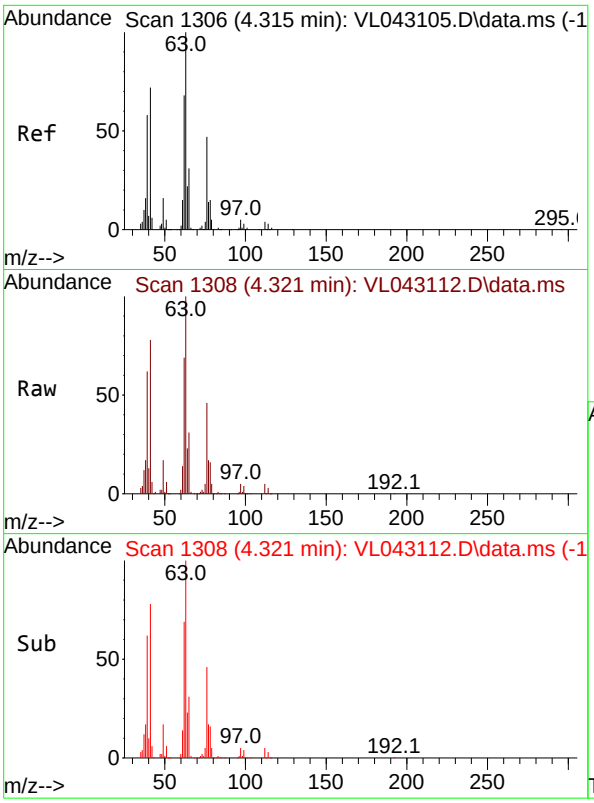


#38
Trichloroethene
Concen: 8.453 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:130 Resp: 108261

Ion	Ratio	Lower	Upper
130	100		
95	113.2	88.6	133.0
132	96.7	73.4	110.0
97	67.4	57.8	86.6

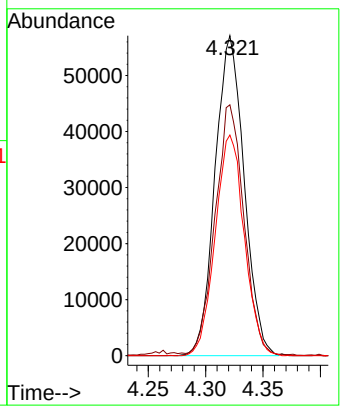




#39
1,2-Dichloropropane
Concen: 8.971 ppbv
RT: 4.321 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 63 Resp: 10058

Ion	Ratio	Lower	Upper
63	100		
41	78.0	58.0	87.0
62	69.0	54.7	82.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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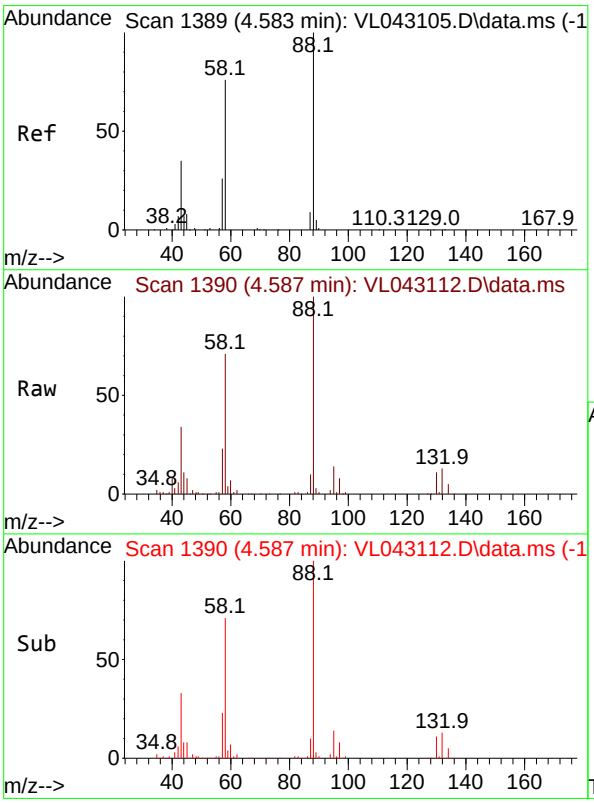
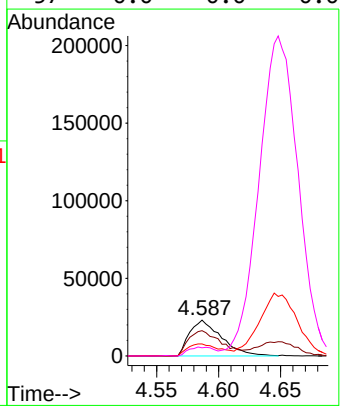
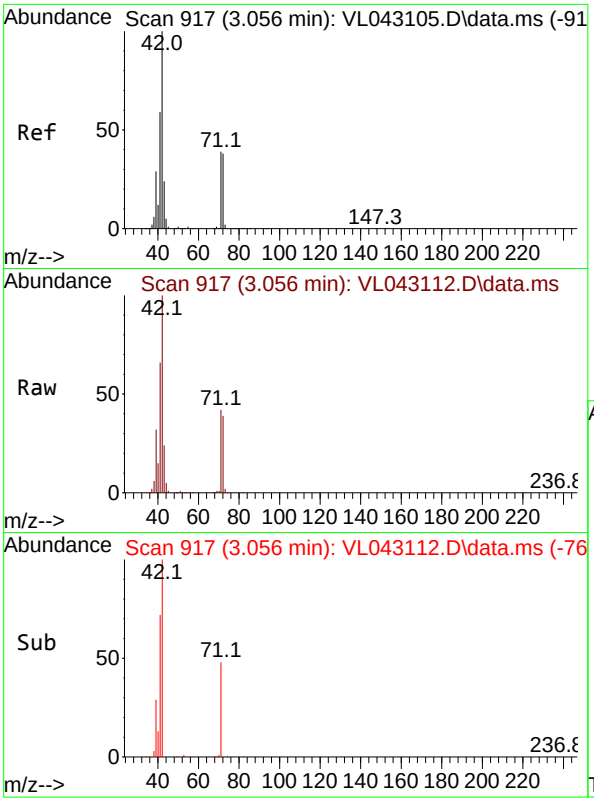


#40
1,4-Dioxane
Concen: 8.265 ppbv
RT: 4.587 min Scan# 1390
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 88 Resp: 41464

Ion	Ratio	Lower	Upper
88	100		
58	74.2	61.1	91.7
43	35.4	24.0	36.0
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 8.553 ppbv
RT: 3.056 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 42 Resp: 10470

Ion	Ratio	Lower	Upper
42	100		
72	39.8	31.3	46.9
71	38.8	30.4	45.6

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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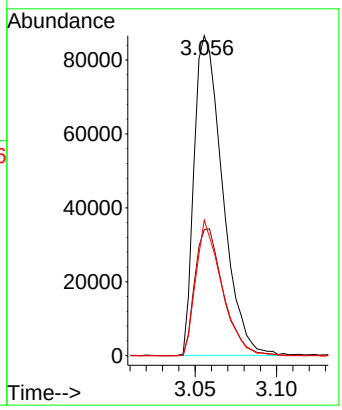
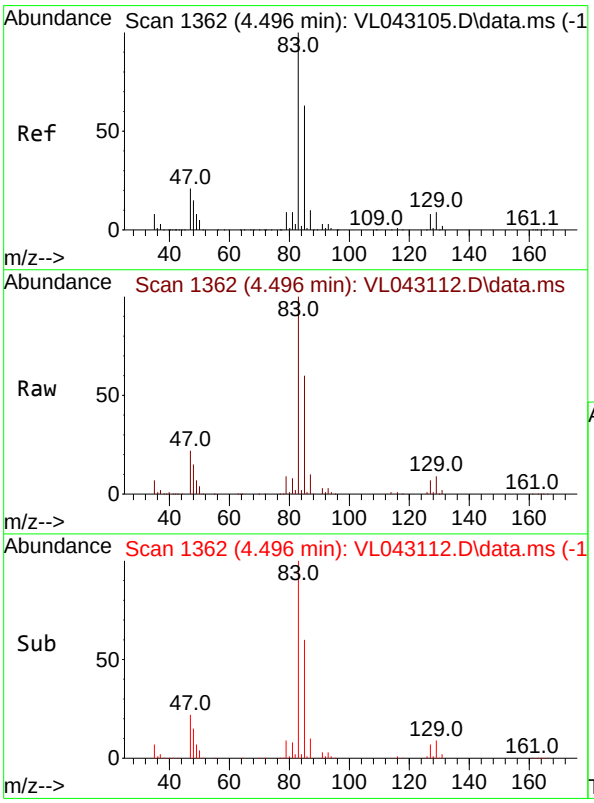
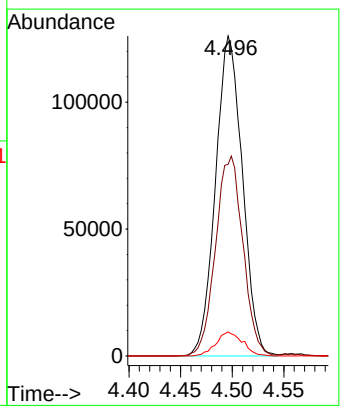


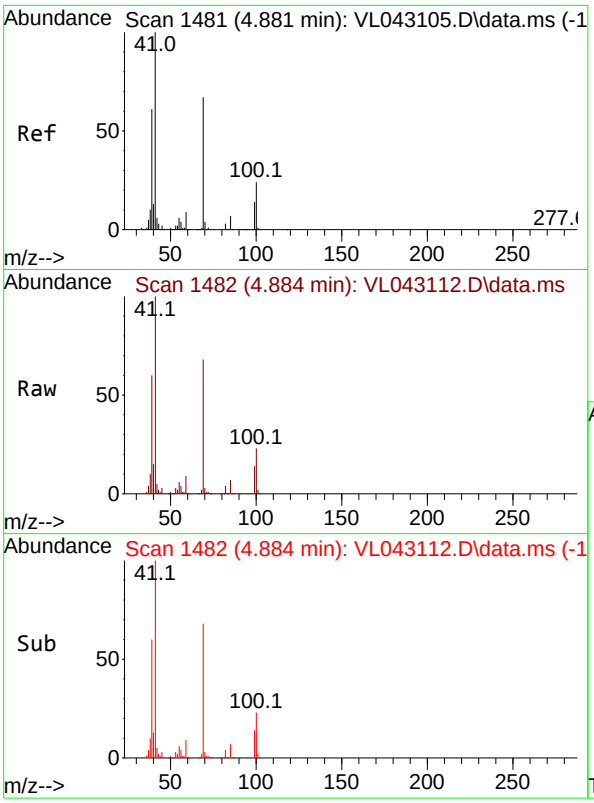


#42
Bromodichloromethane
Concen: 9.336 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 83 Resp: 228288

Ion	Ratio	Lower	Upper
83	100		
85	59.8	50.6	75.8
127	7.5	6.3	9.5

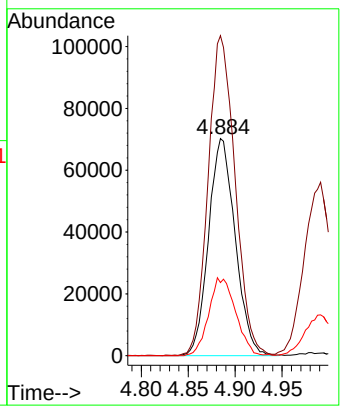




#43
Methyl Methacrylate
Concen: 8.898 ppbv
RT: 4.884 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 69 Resp: 13859

Ion	Ratio	Lower	Upper
69	100		
41	149.1	120.5	180.7
100	36.3	29.0	43.4



Instrument :
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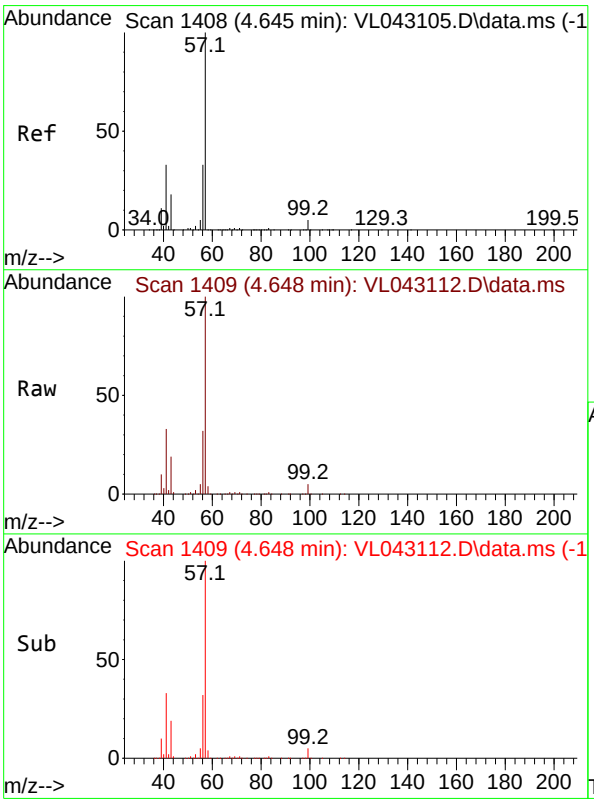
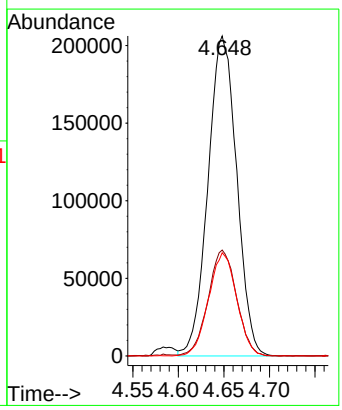
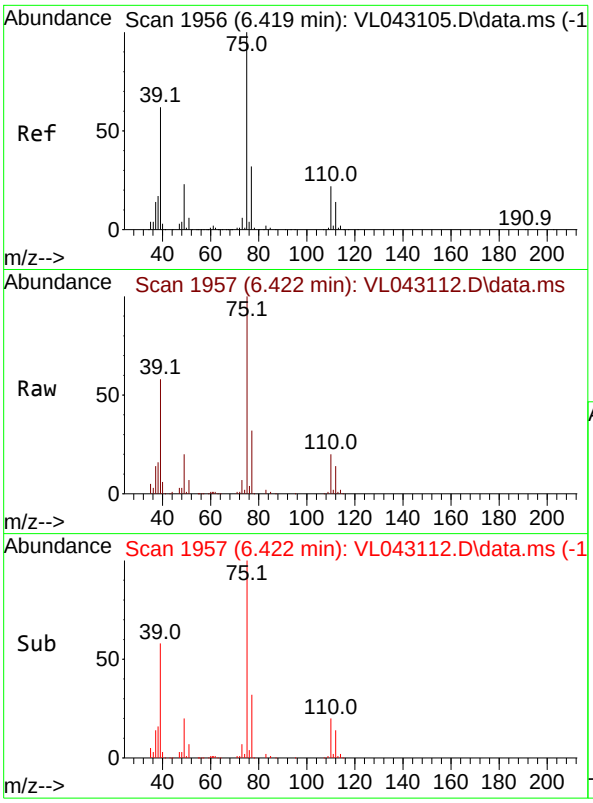


#44
2,2,4-Trimethylpentane
Concen: 8.738 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 57 Resp: 452117

Ion	Ratio	Lower	Upper
57	100		
41	33.2	26.3	39.5
56	31.6	25.9	38.9

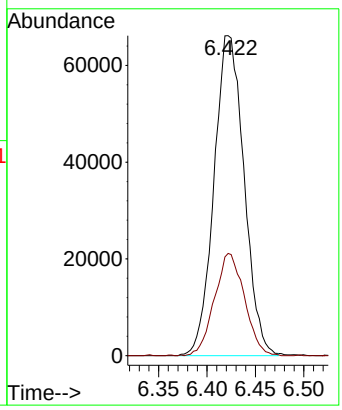




#45
t-1,3-Dichloropropene
Concen: 9.146 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 75 Resp: 14296

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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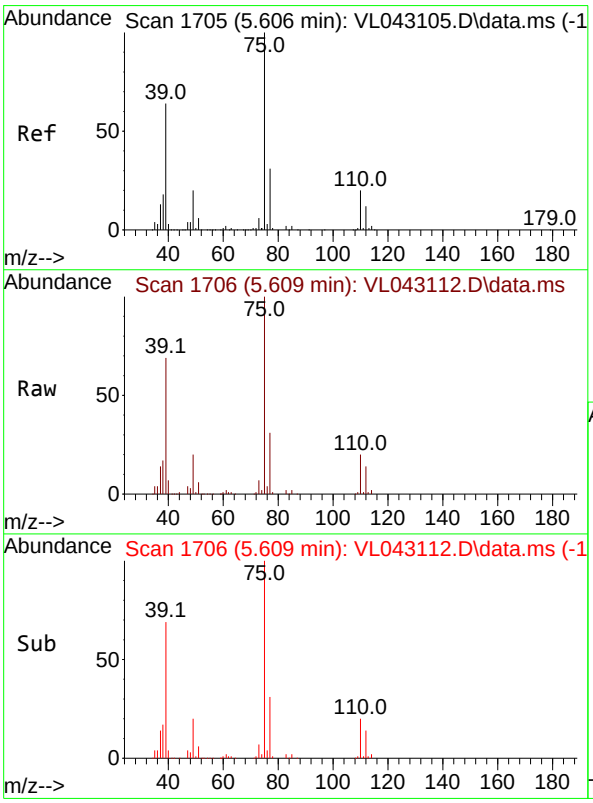
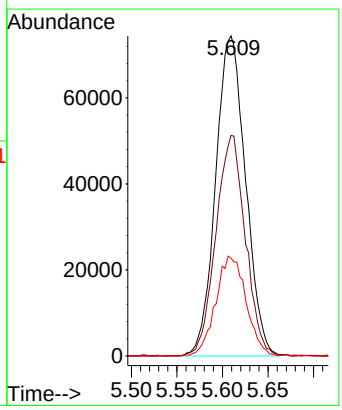
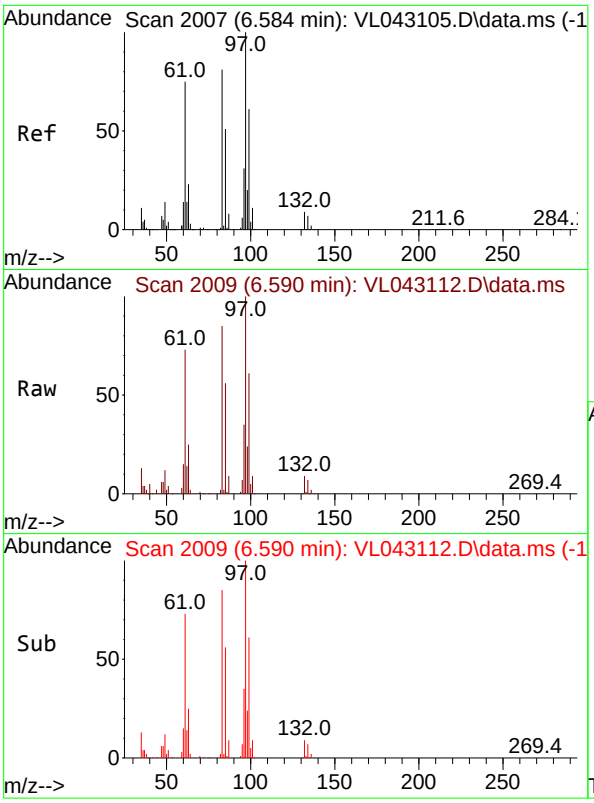


#46
cis-1,3-Dichloropropene
Concen: 9.106 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 75 Resp: 170038

Ion	Ratio	Lower	Upper
75	100		
39	68.8	51.0	76.6
77	30.5	25.0	37.4

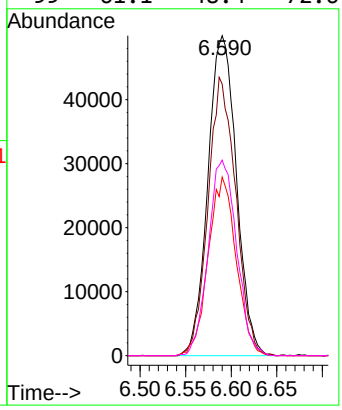




#47
1,1,2-Trichloroethane
Concen: 9.000 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 97 Resp: 10896

Ion	Ratio	Lower	Upper
97	100		
83	84.8	64.6	96.8
85	55.8	40.6	60.8
99	61.1	48.4	72.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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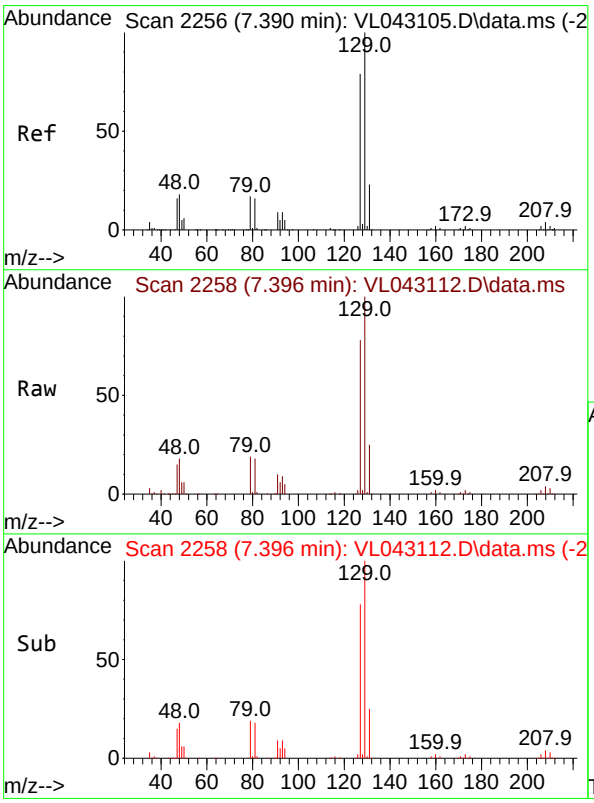
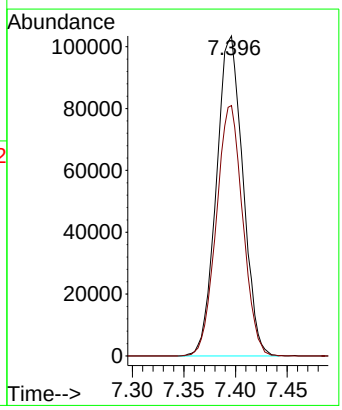
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

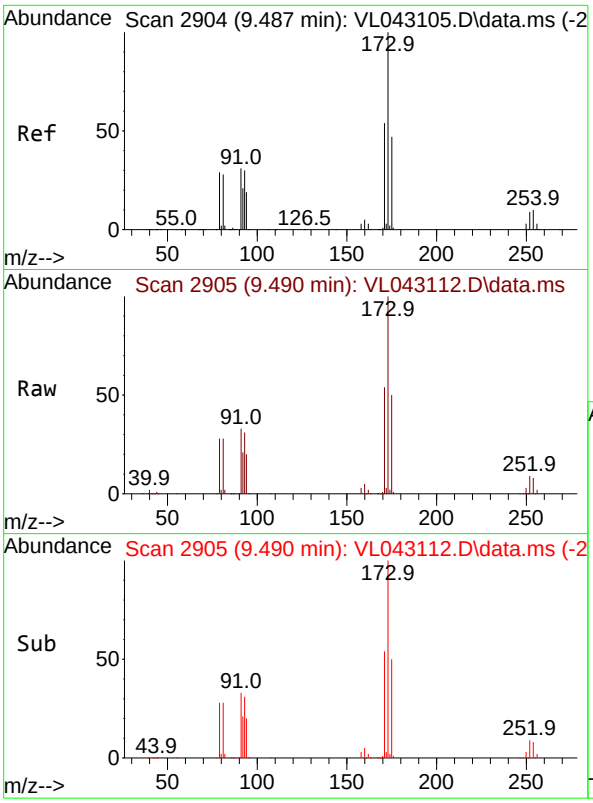


#48
Dibromochloromethane
Concen: 9.127 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:129 Resp: 184757

Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.3	117.9

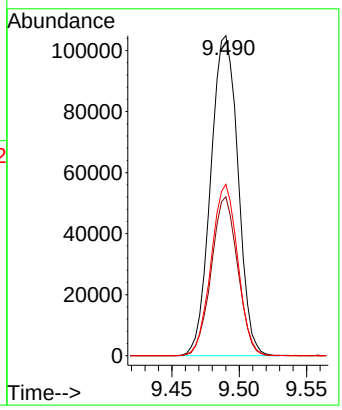




#49
Bromoform
Concen: 8.980 ppbv
RT: 9.490 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:173 Resp: 14775

Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.8	58.2
171	52.1	41.7	62.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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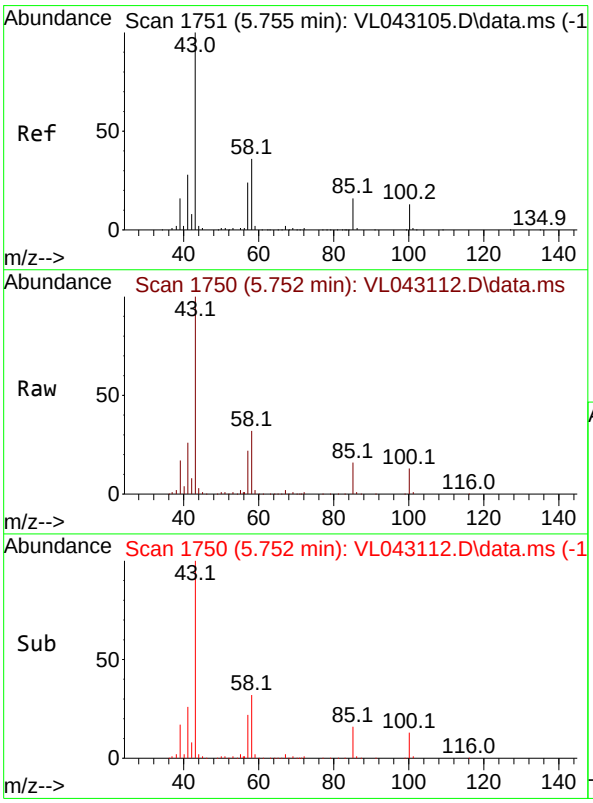
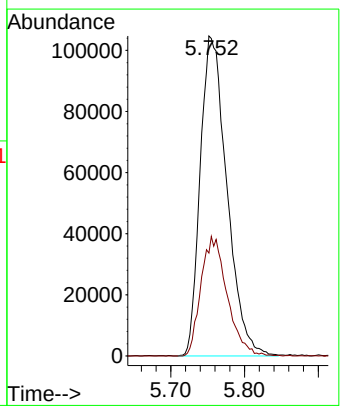
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

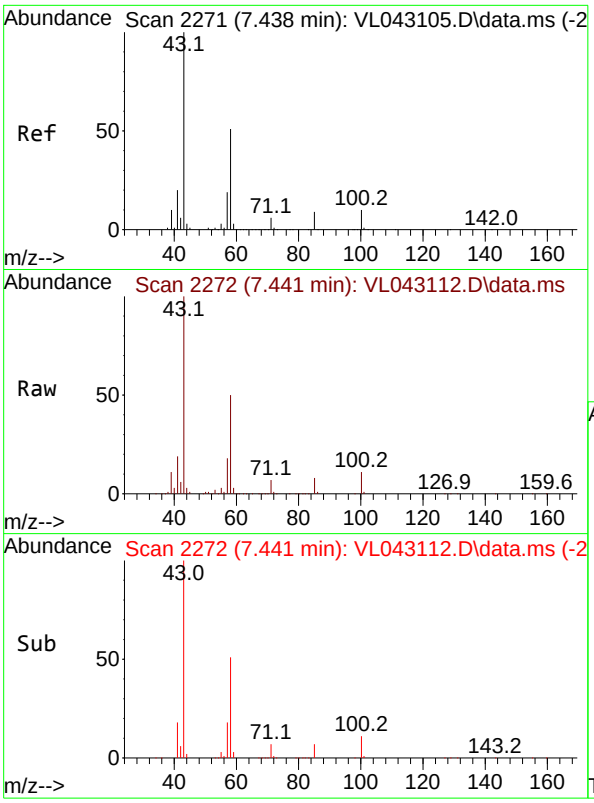


#50
4-Methyl-2-Pentanone
Concen: 8.709 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 263070

Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.1	43.7

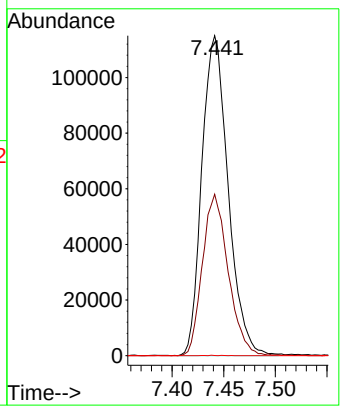




#51
2-Hexanone
Concen: 8.999 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 20387

Ion	Ratio	Lower	Upper
43	100		
58	49.6	40.4	60.6
98	0.1	0.1	0.1#



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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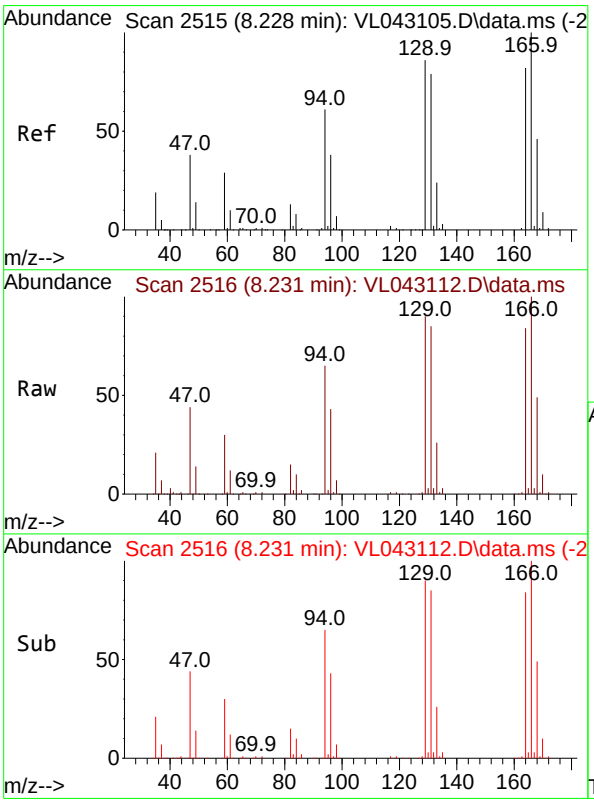
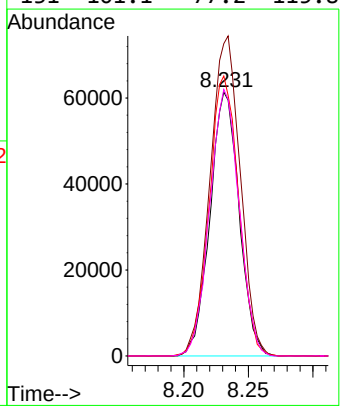
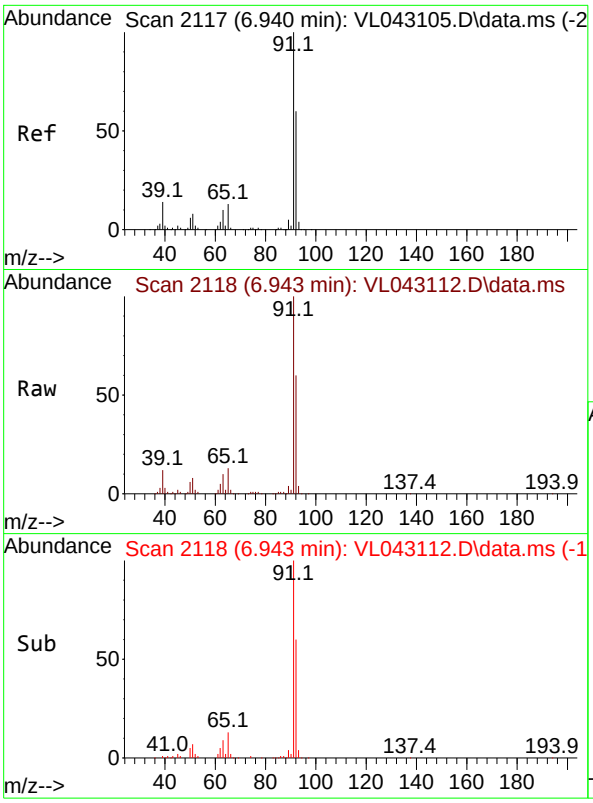


#52
Tetrachloroethene
Concen: 8.681 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:164 Resp: 96000

Ion	Ratio	Lower	Upper
164	100		
166	118.4	97.6	146.4
129	106.2	84.5	126.7
131	101.1	77.2	115.8

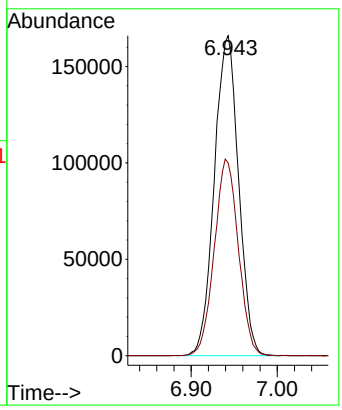




#53
Toluene
Concen: 8.928 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 32494

Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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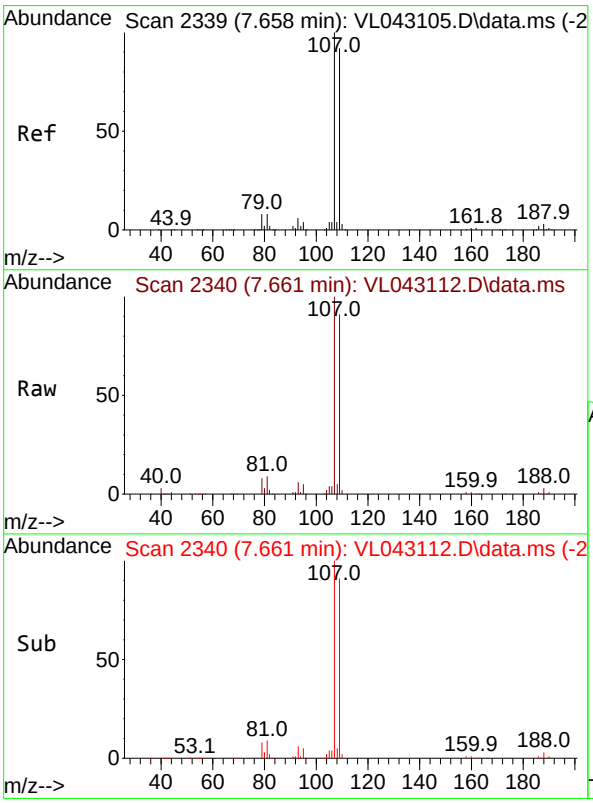
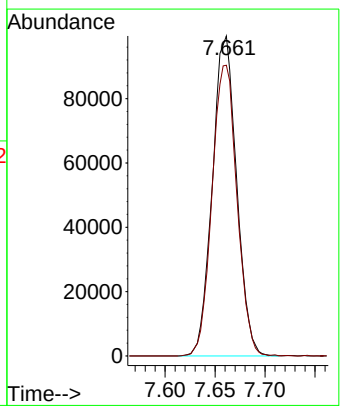
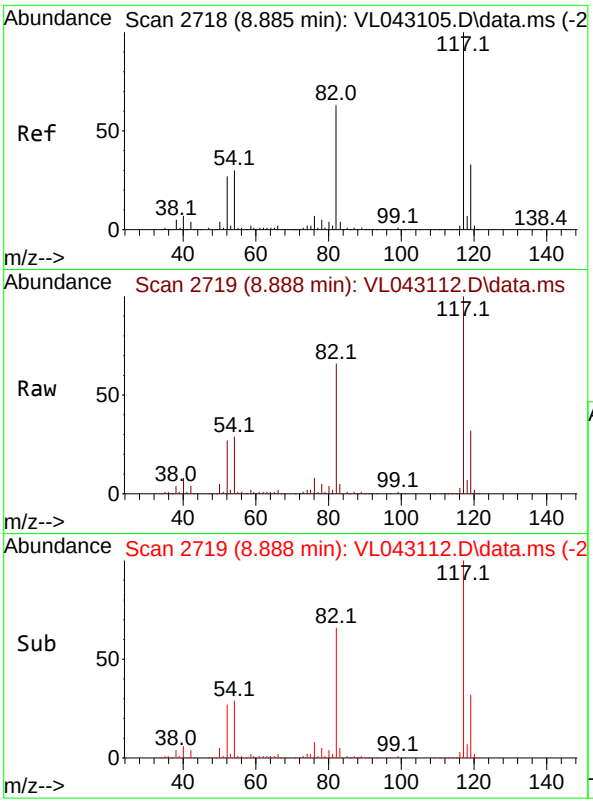


#54
1,2-Dibromoethane
Concen: 8.856 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:107 Resp: 167936

Ion	Ratio	Lower	Upper
107	100		
109	90.9	73.4	110.2

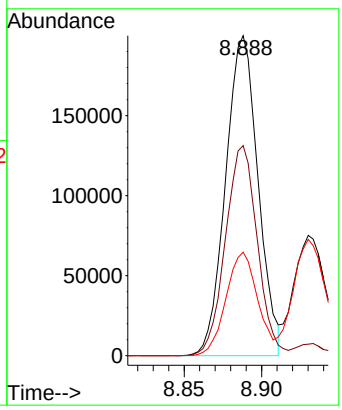




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:117 Resp: 29167

Ion	Ratio	Lower	Upper
117	100		
82	67.8	53.8	80.8
119	31.5	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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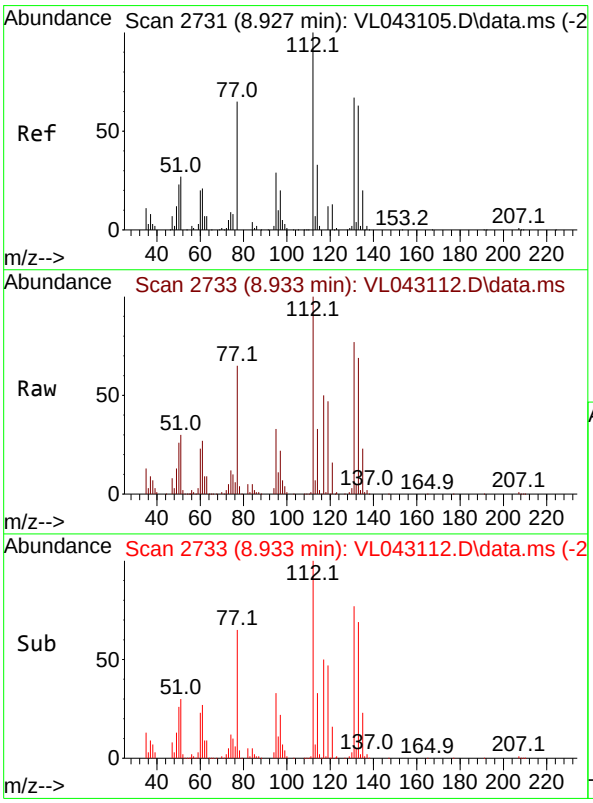
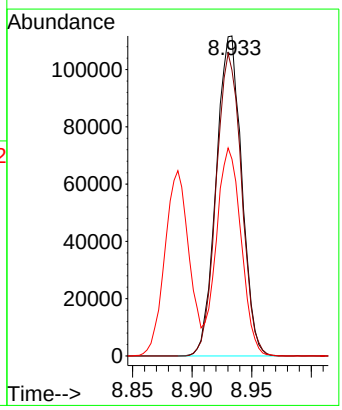
Supervised By :Mahesh Dadoda 10/16/2025

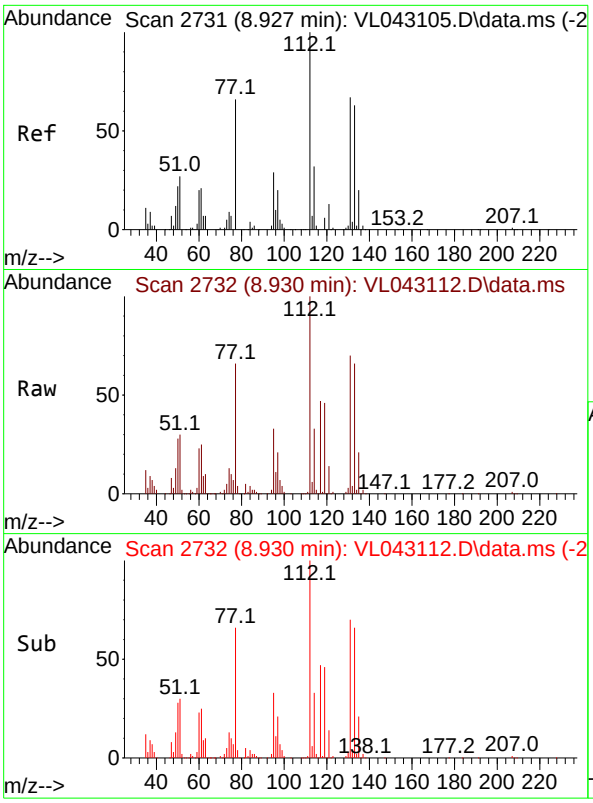


#56
1,1,1,2-Tetrachloroethane
Concen: 9.031 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:131 Resp: 166059

Ion	Ratio	Lower	Upper
131	100		
133	94.2	75.7	113.5
119	60.4	50.6	76.0

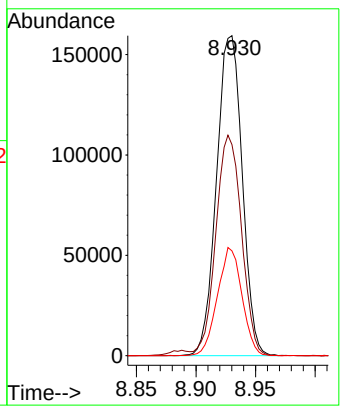




#57
Chlorobenzene
Concen: 8.770 ppbv
RT: 8.930 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:112 Resp: 23930

Ion	Ratio	Lower	Upper
112	100		
77	65.9	53.3	79.9
114	32.7	29.3	35.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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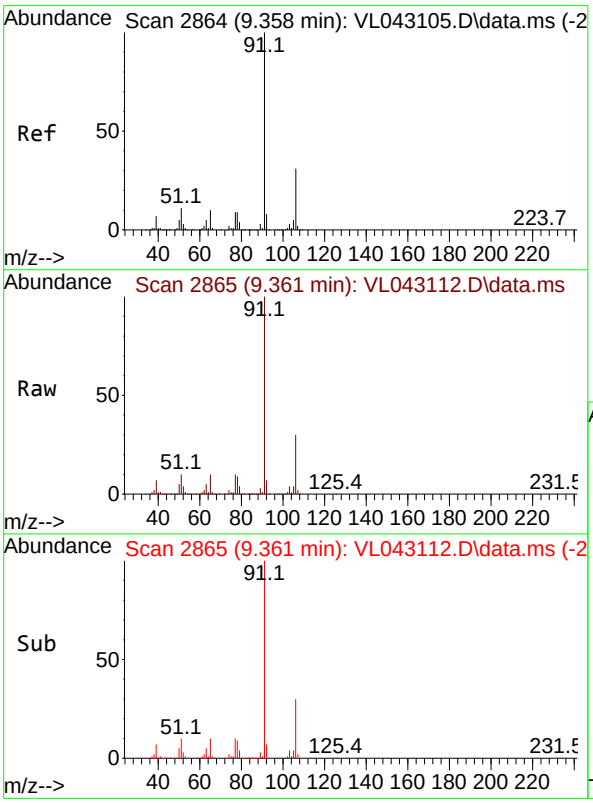
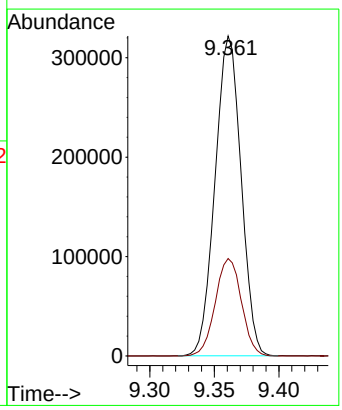
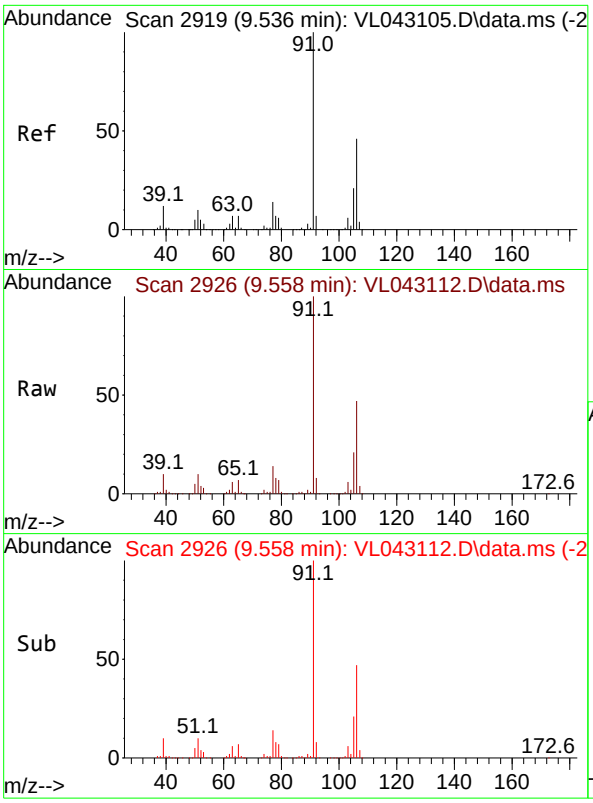


#58
Ethyl Benzene
Concen: 8.990 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 450029

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.8	37.2

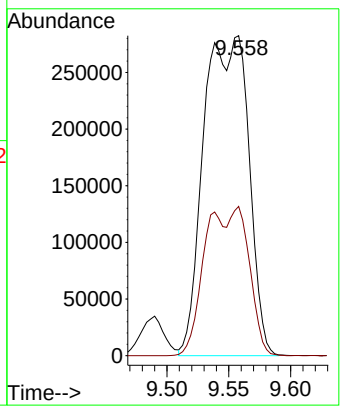




#59
m/p-Xylene
Concen: 17.913 ppbv m
RT: 9.558 min Scan# 2
Delta R.T. 0.022 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 71519

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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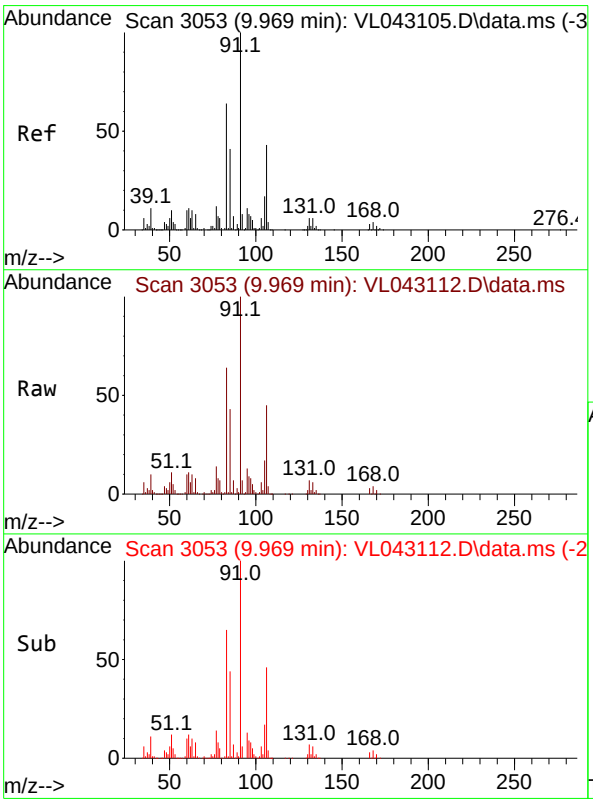
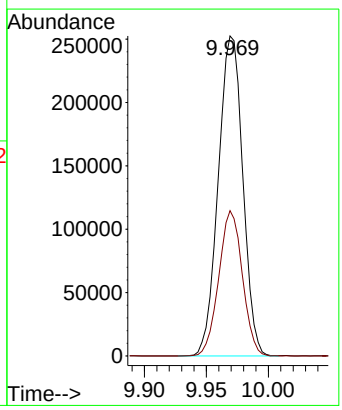
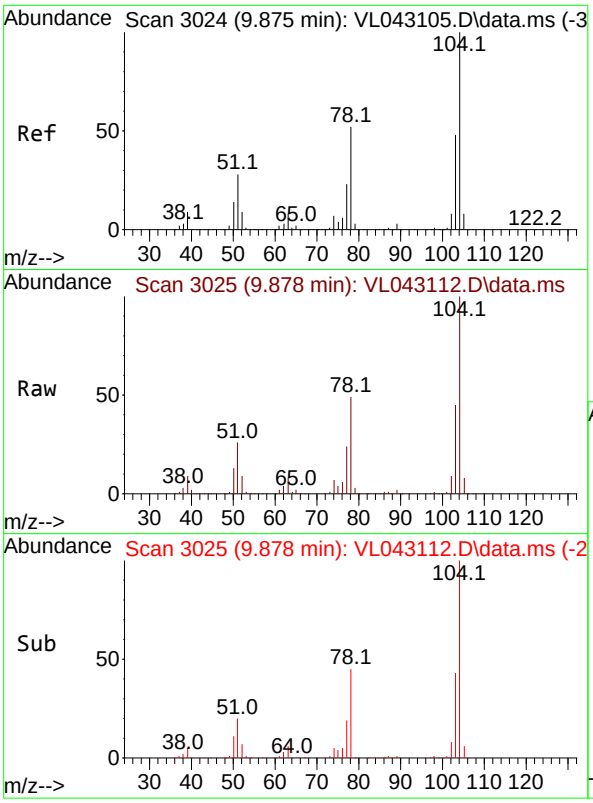


#60
o-Xylene
Concen: 8.834 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 348346

Ion	Ratio	Lower	Upper
91	100		
106	43.7	21.9	65.8

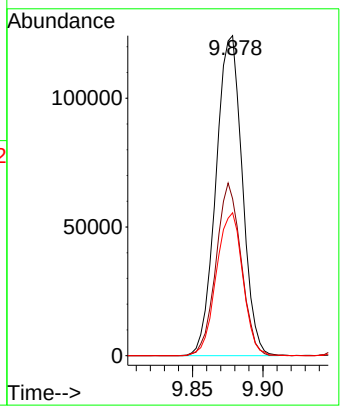




#61
Styrene
Concen: 9.099 ppbv
RT: 9.878 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:104 Resp: 16197

Ion	Ratio	Lower	Upper
104	100		
78	51.4	40.2	60.2
103	45.0	36.9	55.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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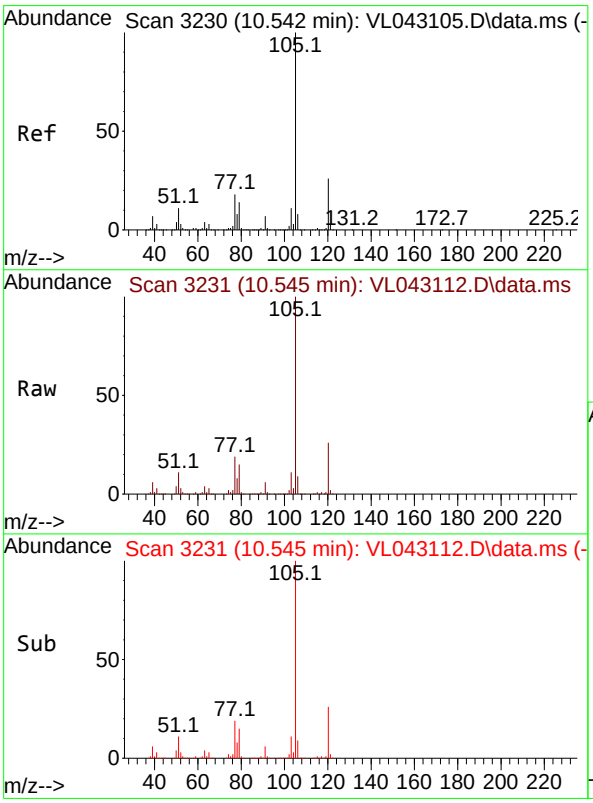
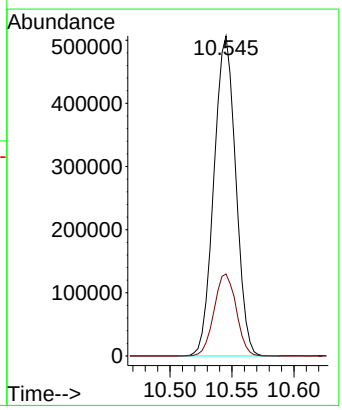
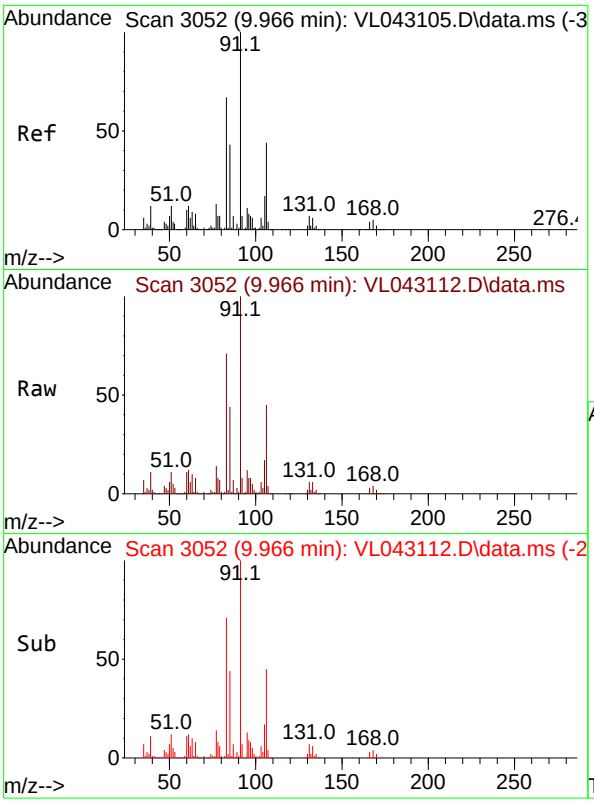


#62
Isopropylbenzene
Concen: 8.726 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 621758

Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.2	30.4





#63
1,1,2,2-Tetrachloroethane
Concen: 8.177 ppbv
RT: 9.966 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 83 Resp: 21591

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.3
85	64.1	32.0	96.0

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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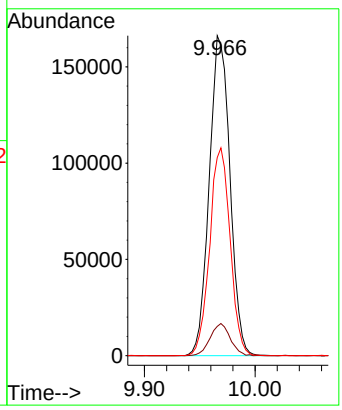
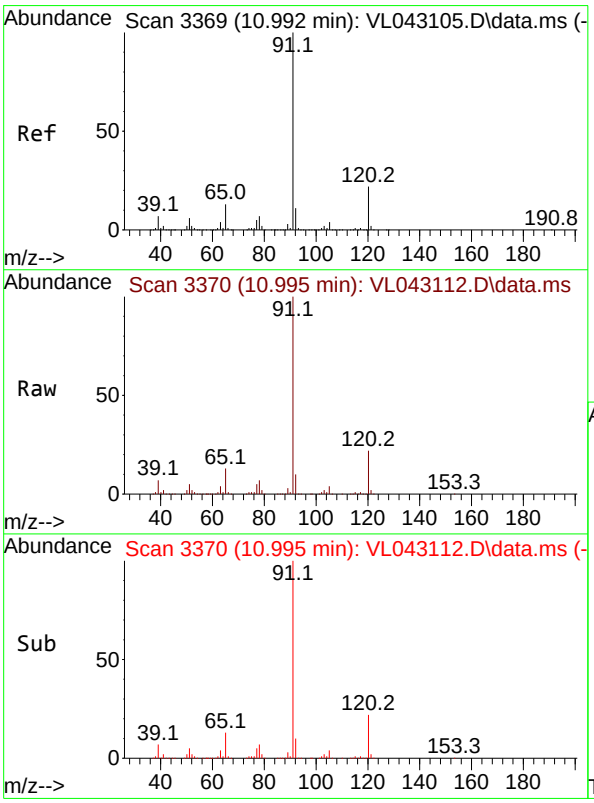
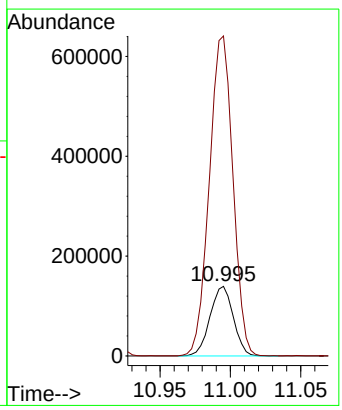


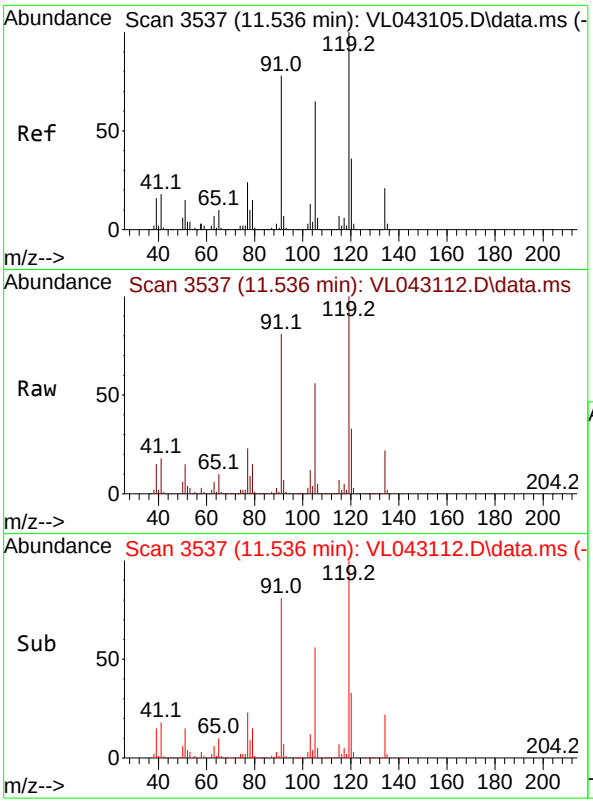


#64
n-propylbenzene
Concen: 8.503 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:120 Resp: 160411

Ion	Ratio	Lower	Upper
120	100		
91	467.8	361.6	542.4

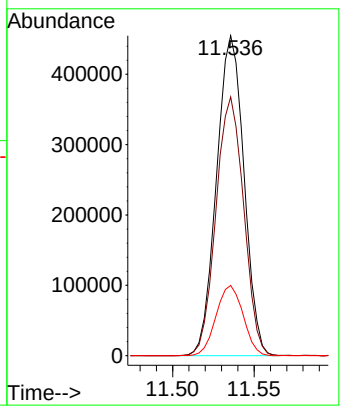




#65
tert-Butylbenzene
Concen: 8.464 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:119 Resp: 53257

Ion	Ratio	Lower	Upper
119	100		
91	81.6	63.4	95.0
134	21.6	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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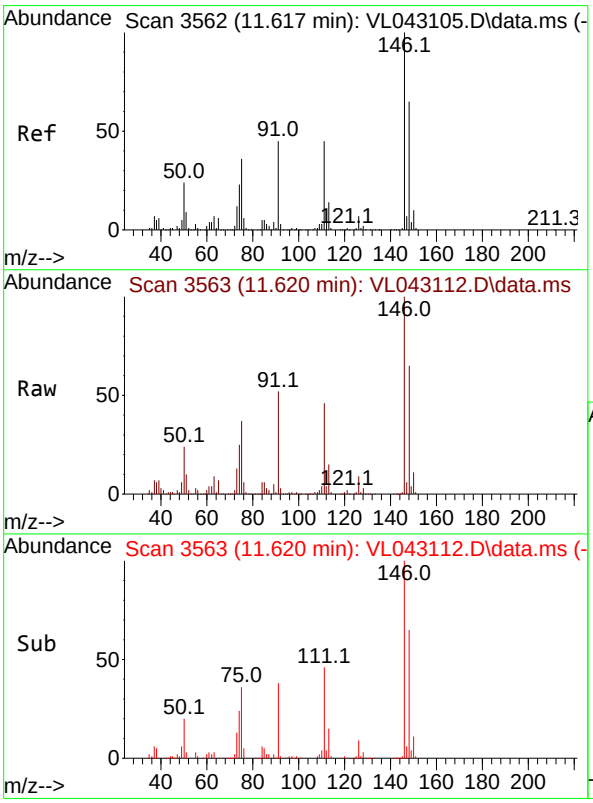
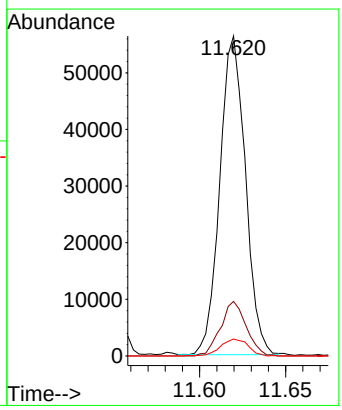
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

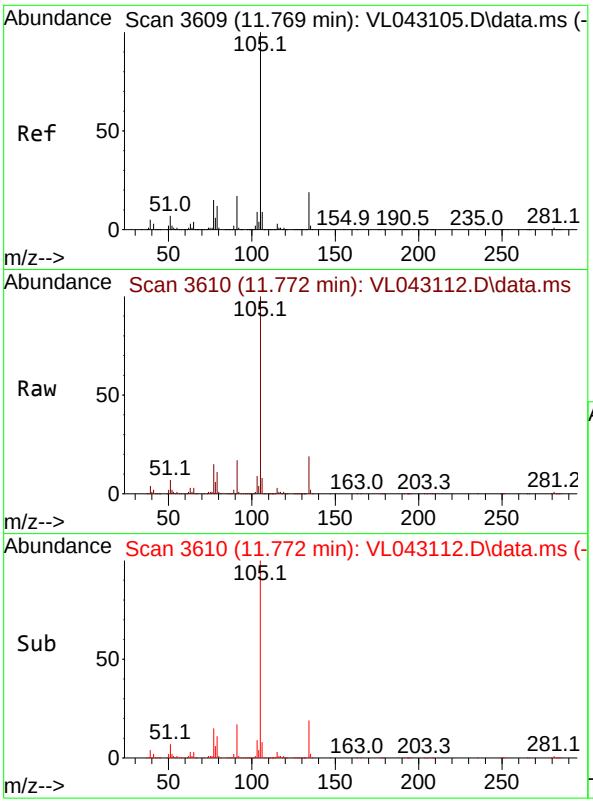


#66
Benzyl Chloride
Concen: 8.306 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 58169

Ion	Ratio	Lower	Upper
91	100		
126	17.2	14.6	22.0
128	5.8	4.6	6.8

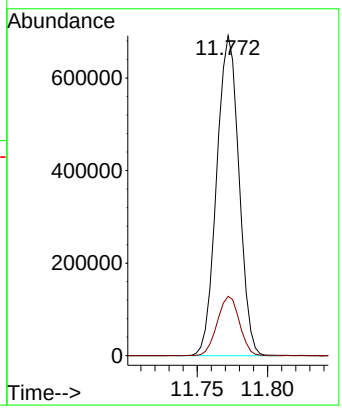




#67
sec-Butylbenzene
Concen: 8.541 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 76271

Ion	Ratio	Lower	Upper
105	100		
134	18.5	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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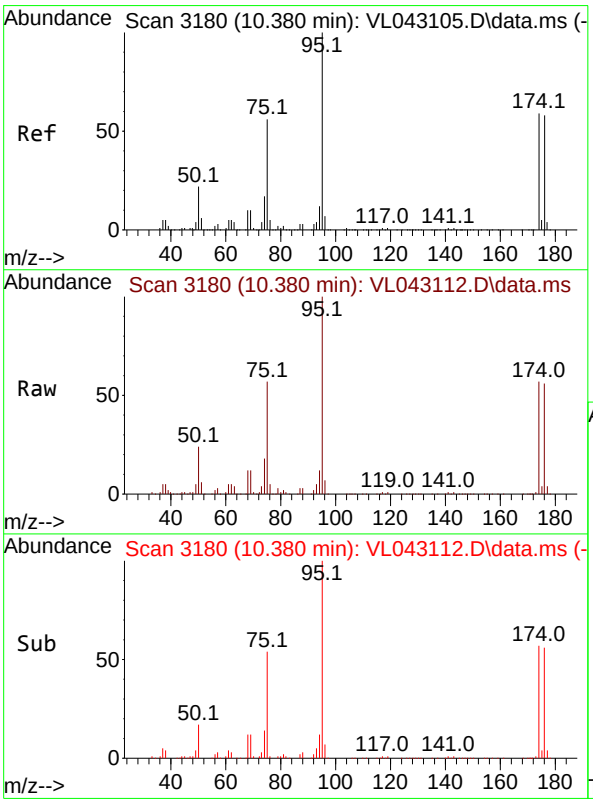
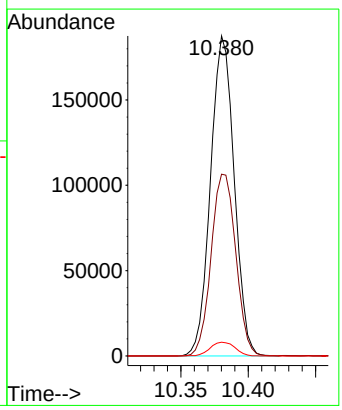
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

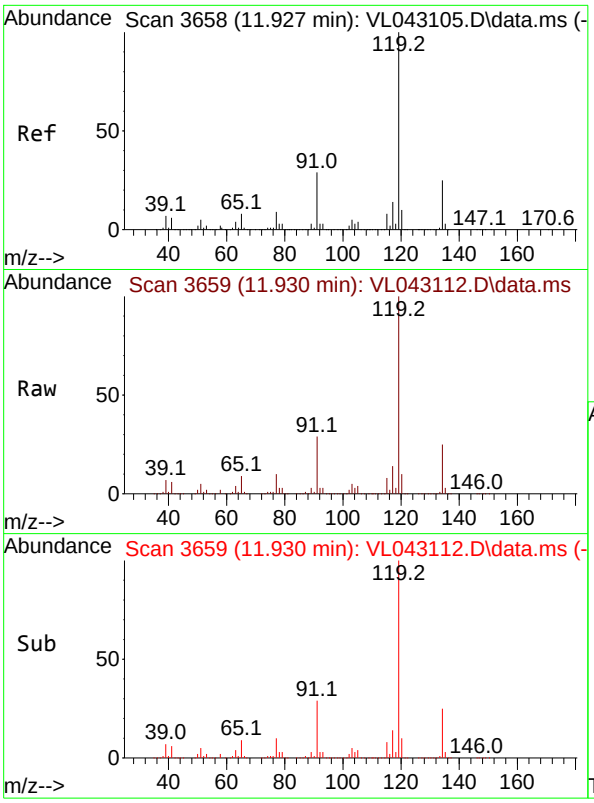


#68
1-Bromo-4-Fluorobenzene
Concen: 10.101 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 95 Resp: 229010

Ion	Ratio	Lower	Upper
95	100		
174	59.2	48.3	72.5
175	4.6	3.8	5.8

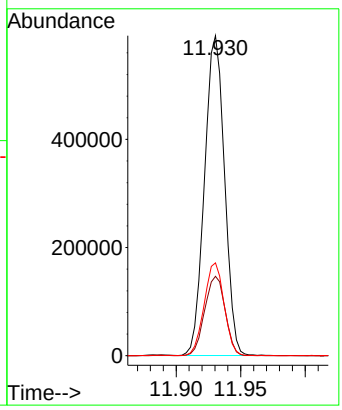




#69
p-Isopropyltoluene
Concen: 8.411 ppbv
RT: 11.930 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:119 Resp: 63826

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	29.0	22.6	33.8



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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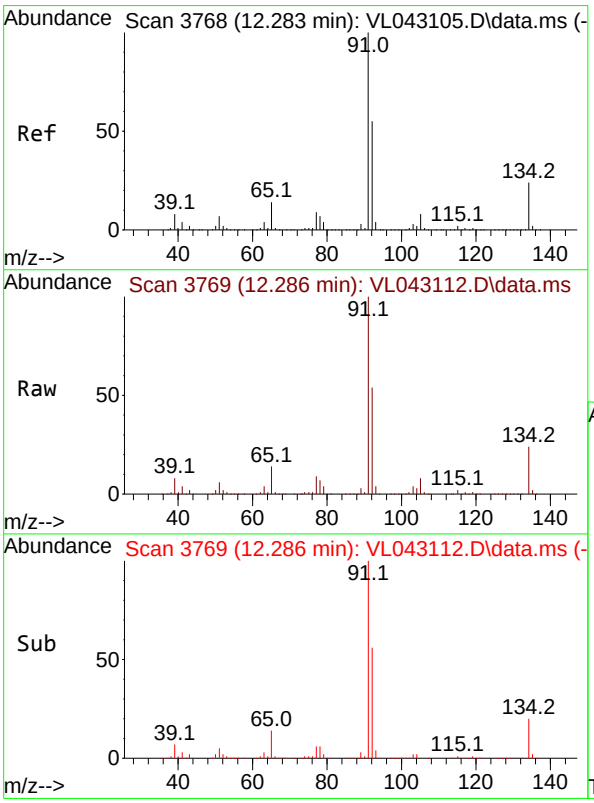
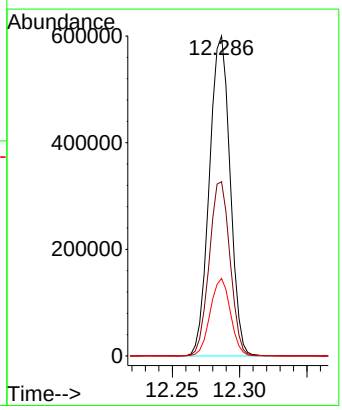
Supervised By :Mahesh Dadoda 10/16/2025

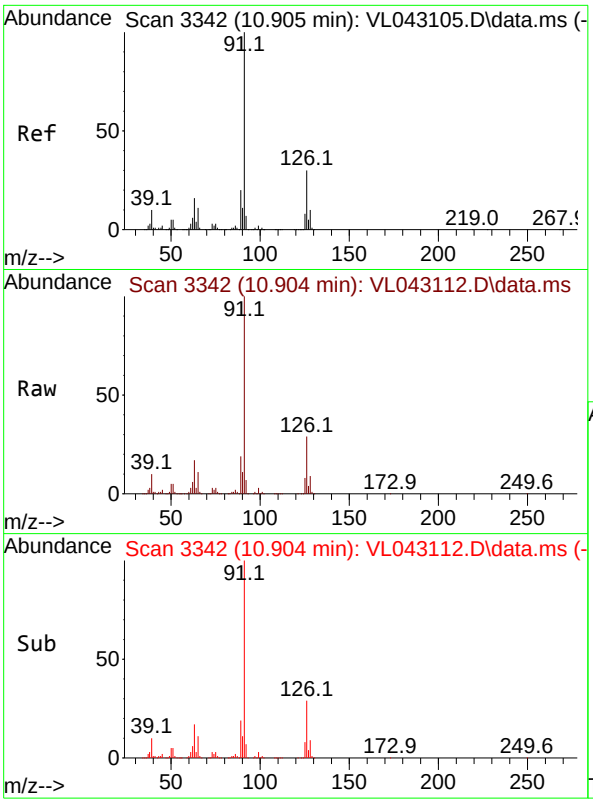


#70
n-Butylbenzene
Concen: 8.579 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 641547

Ion	Ratio	Lower	Upper
91	100		
92	54.8	44.5	66.7
134	23.7	19.3	28.9

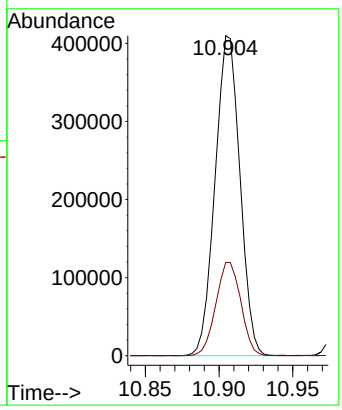




#71
2-Chlorotoluene
Concen: 8.828 ppbv
RT: 10.904 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 47979

Ion	Ratio	Lower	Upper
91	100		
126	29.3	12.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

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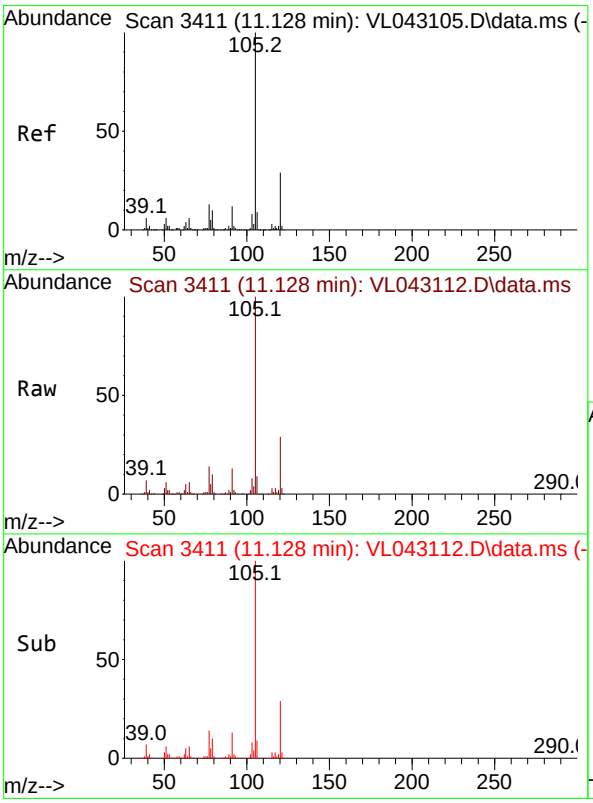
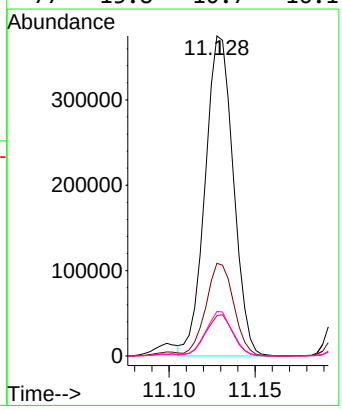
Supervised By :Mahesh Dadoda 10/16/2025

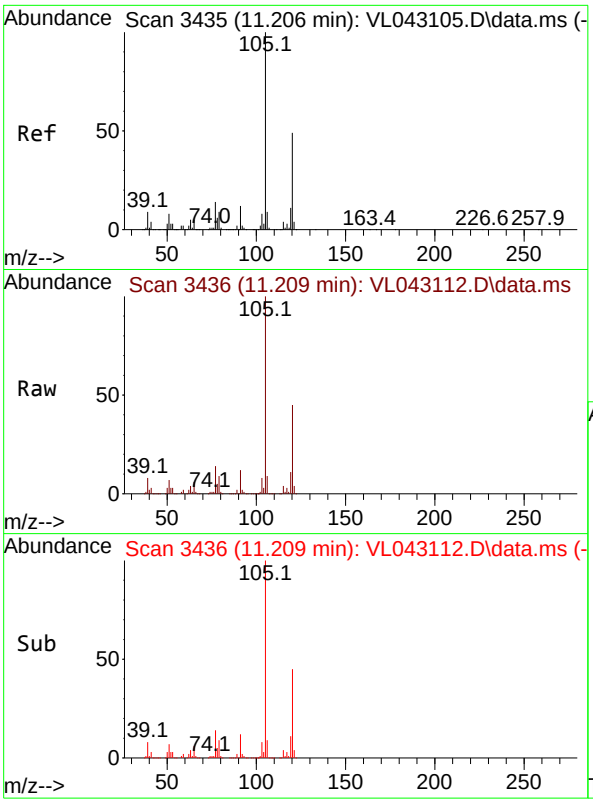


#72
4-Ethyltoluene
Concen: 8.807 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 427034

Ion	Ratio	Lower	Upper
105	100		
120	29.8	24.2	36.4
91	13.1	10.0	15.0
77	13.8	10.7	16.1

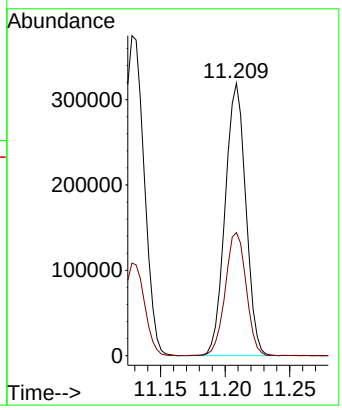




#73
1,3,5-Trimethylbenzene
Concen: 8.874 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 35487

Ion	Ratio	Lower	Upper
105	100		
120	45.2	39.0	58.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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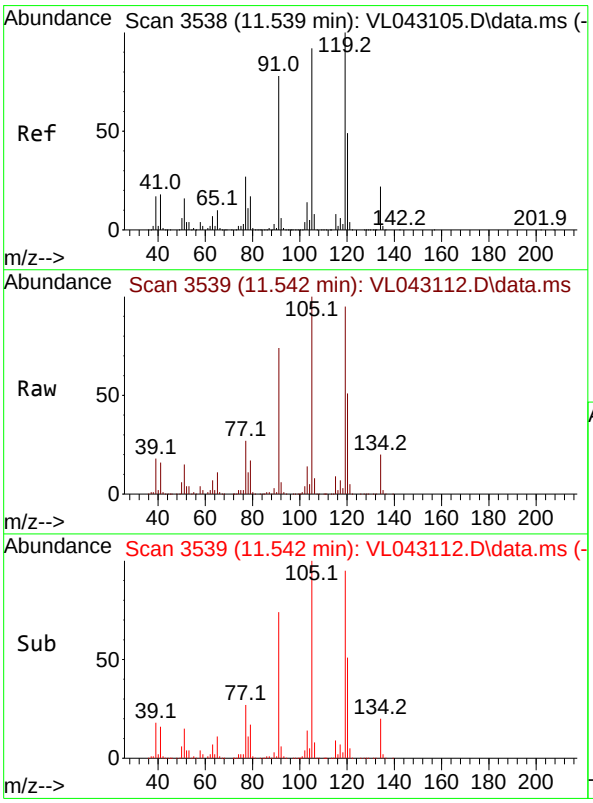
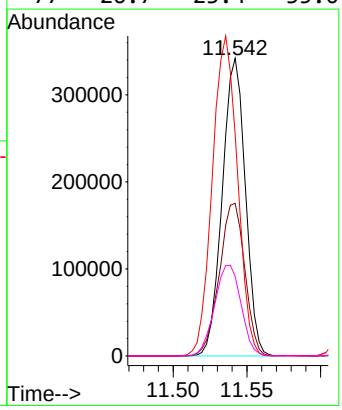
Supervised By :Mahesh Dadoda 10/16/2025

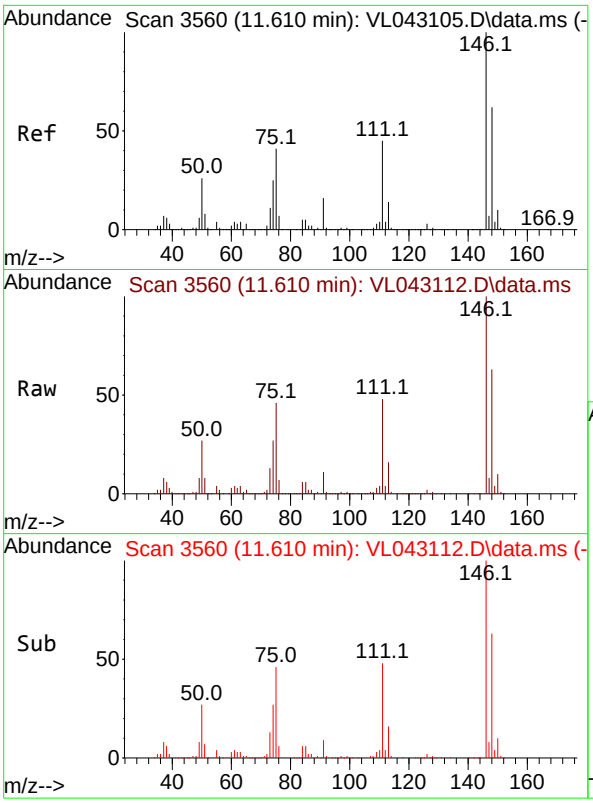


#74
1,2,4-Trimethylbenzene
Concen: 8.324 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 372506

Ion	Ratio	Lower	Upper
105	100		
120	51.3	42.8	64.2
91	74.4	68.3	102.5
77	26.7	23.4	35.0

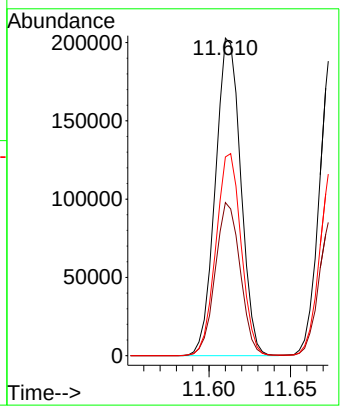




#75
1,3-Dichlorobenzene
Concen: 8.454 ppbv
RT: 11.610 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:146 Resp: 21942

Ion	Ratio	Lower	Upper
146	100		
111	47.6	23.3	69.9
148	63.3	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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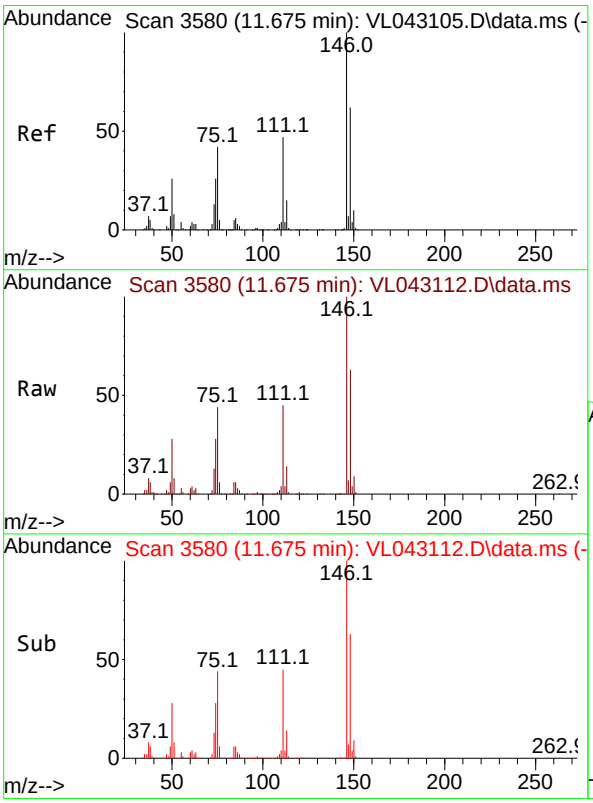
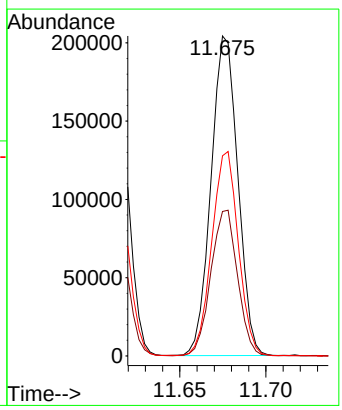
Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

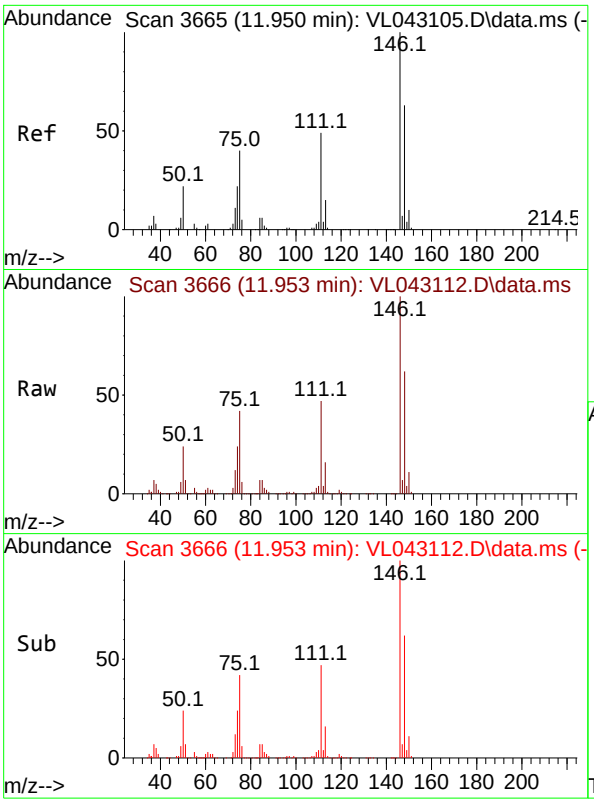


#76
1,4-Dichlorobenzene
Concen: 8.458 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:146 Resp: 221364

Ion	Ratio	Lower	Upper
146	100		
111	45.7	22.4	67.0
148	63.6	31.6	94.7

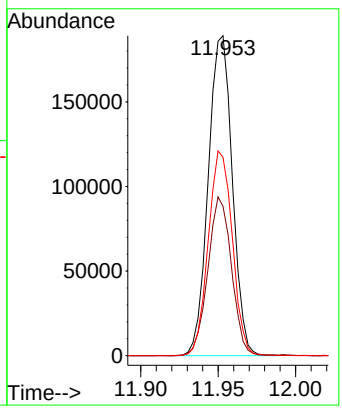




#77
1,2-Dichlorobenzene
Concen: 8.132 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:146 Resp: 20417

Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.0	72.0
148	64.1	31.1	93.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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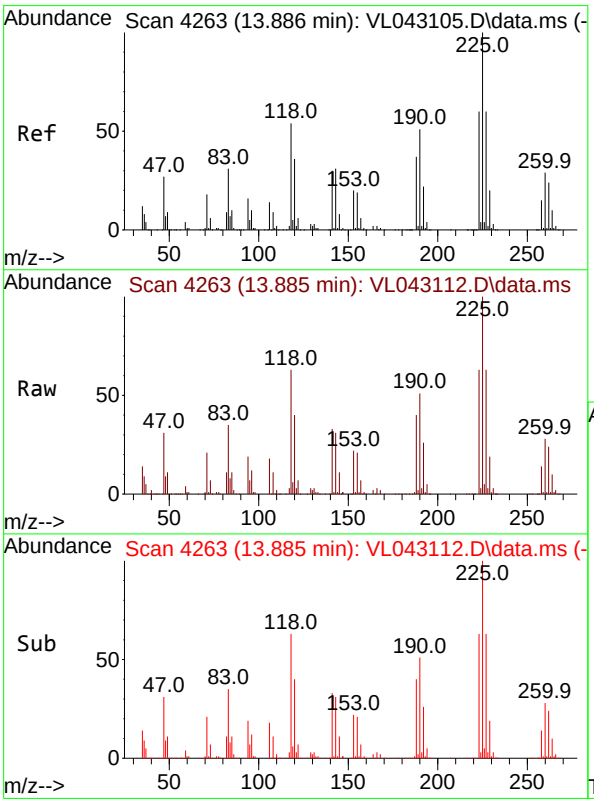
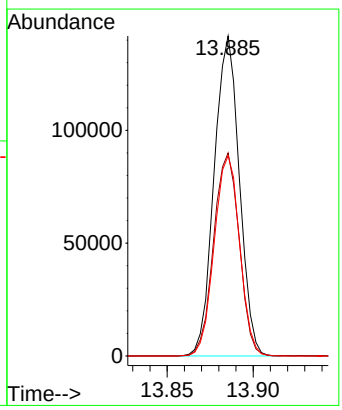
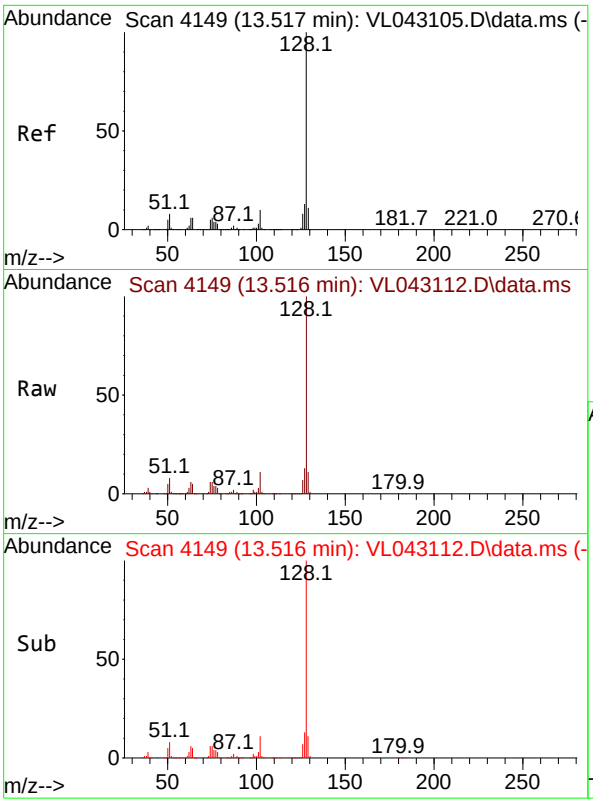


#78
Hexachloro-1,3-Butadiene
Concen: 7.440 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:225 Resp: 144646

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.2	75.4
227	62.9	49.6	74.4

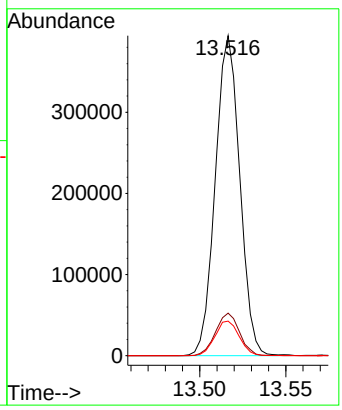




#79
Naphthalene
Concen: 8.334 ppbv
RT: 13.516 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:128 Resp: 38981

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	10.8	9.1	13.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/16/2025
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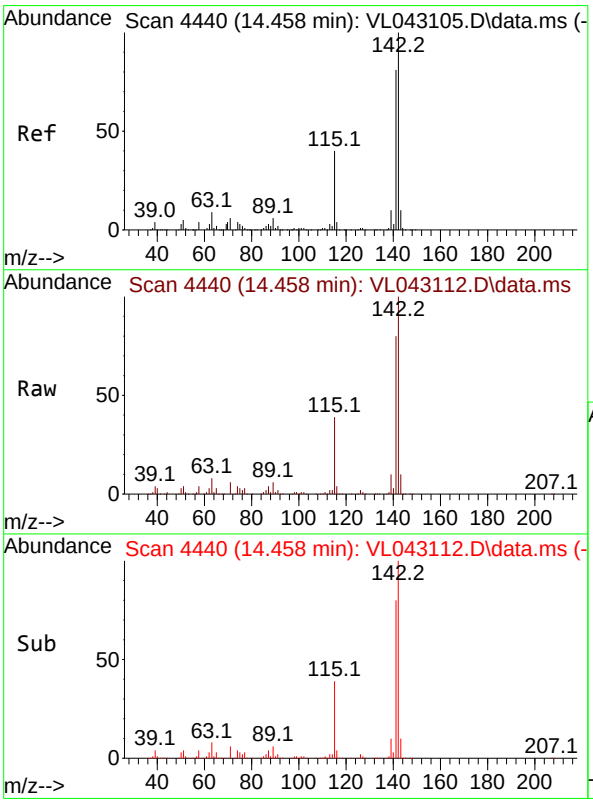
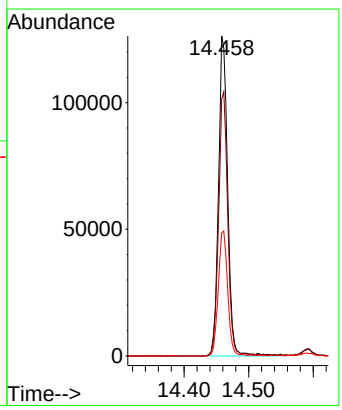
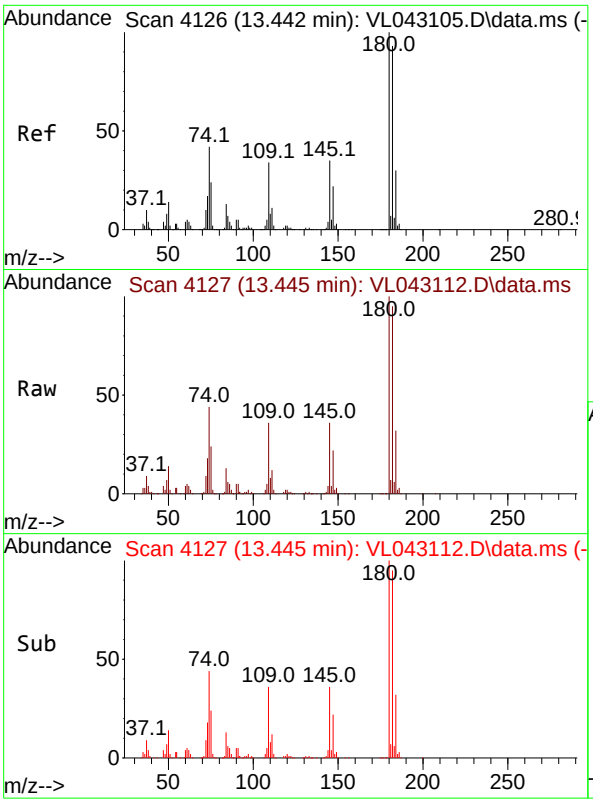


#80
Naphthalene,2-methyl-
Concen: 10.146 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:142 Resp: 123632

Ion	Ratio	Lower	Upper
142	100		
141	83.1	64.6	97.0
115	40.3	30.2	45.4

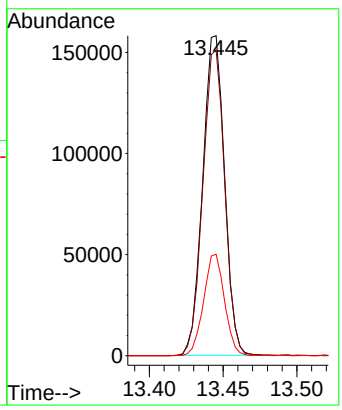




#81
1,2,4-Trichlorobenzene
Concen: 8.373 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:180 Resp: 16255

Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.5	113.3
184	30.4	23.9	35.9



Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025
Supervised By :Mahesh Dadoda 10/16/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043112.D
Acq On : 14 Oct 2025 14:51
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 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	94	0.00
2	T	Dichlorodifluoromethane	1.422	1.340	5.8	98	0.00
3		Chlorodifluoromethane	1.538	1.424	7.4	92	0.00
4		Chloromethane	0.563	0.499	11.4	94	0.00
5	T	Vinyl Chloride	0.552	0.482	12.7	94	0.00
6	T	Bromomethane	0.303	0.270	10.9	97	0.00
7		Chloroethane	0.226	0.196	13.3	96	0.00
8	T	Dichlorotetrafluoroethane	1.149	1.098	4.4	99	0.00
9	T	Propene	0.682	0.608	10.9	87	0.00
10	T	Heptane	1.964	1.695	13.7	88	0.00
11	T	Trichlorofluoromethane	1.391	1.358	2.4	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.120	1.050	6.3	101	0.00
13		Ethanol	0.252	0.181	28.2	88	0.00
14	T	Bromoethene	0.416	0.388	6.7	98	0.00
15	T	Acetone	1.348	1.107	17.9	95	0.00
16	T	1,3-Butadiene	0.642	0.569	11.4	97	0.00
17		tert-Butyl alcohol	1.850	1.667	9.9	93	0.00
18	T	1,1-Dichloroethene	0.488	0.477	2.3	102	0.00
19	T	Isopropyl Alcohol	0.839	0.692	17.5	90	0.00
20	T	Methylene Chloride	0.533	0.413	22.5	96	0.00
21	T	Allyl Chloride	0.993	0.912	8.2	94	0.00
22	T	trans-1,2-Dichloroethene	0.583	0.526	9.8	97	0.00
23	T	Vinyl Acetate	1.974	1.900	3.7	110	0.00
24	T	1,1-Dichloroethane	1.127	1.054	6.5	96	0.00
25	T	Ethyl Acetate	3.342	2.997	10.3	90	0.00
26	T	Hexane	1.540	1.388	9.9	93	0.00
27	T	Carbon Disulfide	1.411	1.343	4.8	96	0.00
28	T	Methyl tert-Butyl Ether	0.701	0.689	1.7	110	0.00
29	T	Chloroform	2.232	2.100	5.9	97	0.00
30	T	Cyclohexane	1.344	1.223	9.0	95	0.00
31	T	cis-1,2-Dichloroethene	1.471	1.409	4.2	94	0.00
32	T	1,1,1-Trichloroethane	2.324	2.246	3.4	99	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
34	T	2-Butanone	0.672	0.580	13.7	91	0.00
35	T	Carbon Tetrachloride	0.719	0.669	7.0	98	0.00
36	T	Benzene	0.942	0.855	9.2	94	0.00
37	T	1,2-Dichloroethane	0.543	0.497	8.5	97	0.00
38	T	Trichloroethene	0.393	0.332	15.5	93	0.00
39	T	1,2-Dichloropropane	0.344	0.309	10.2	93	0.00
40	T	1,4-Dioxane	0.154	0.127	17.5	86	0.00
41	T	Tetrahydrofuran	0.376	0.322	14.4	89	0.00
42	T	Bromodichloromethane	0.751	0.701	6.7	96	0.00
43		Methyl Methacrylate	0.478	0.426	10.9	90	0.00
44	T	2,2,4-Trimethylpentane	1.589	1.389	12.6	91	0.00
45	T	t-1,3-Dichloropropene	0.480	0.439	8.5	91	0.00
46	T	cis-1,3-Dichloropropene	0.573	0.522	8.9	91	0.00
47	T	1,1,2-Trichloroethane	0.372	0.335	9.9	94	0.00
48	T	Dibromochloromethane	0.622	0.567	8.8	92	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043112.D
Acq On : 14 Oct 2025 14:51
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 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	0.505	0.454	10.1	89	0.00
50	T	4-Methyl-2-Pentanone	0.928	0.808	12.9	88	0.00
51	T	2-Hexanone	0.696	0.626	10.1	86	0.00
52	T	Tetrachloroethene	0.340	0.295	13.2	90	0.00
53	T	Toluene	1.118	0.998	10.7	92	0.00
54	T	1,2-Dibromoethane	0.582	0.516	11.3	92	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56		1,1,1,2-Tetrachloroethane	0.630	0.569	9.7	91	0.00
57	T	Chlorobenzene	0.936	0.820	12.4	91	0.00
58	T	Ethyl Benzene	1.716	1.543	10.1	91	0.00
59	T	m/p-Xylene	1.369	1.226	10.4	93	0.02
60	T	o-Xylene	1.352	1.194	11.7	92	0.00
61	T	Styrene	0.610	0.555	9.0	91	0.00
62		Isopropylbenzene	2.443	2.132	12.7	90	0.00
63	T	1,1,2,2-Tetrachloroethane	0.905	0.740	18.2	90	0.00
64		n-propylbenzene	0.647	0.550	15.0	88	0.00
65		tert-Butylbenzene	2.157	1.826	15.3	91	0.00
66	T	Benzyl Chloride	0.240	0.199	17.1	78	0.00
67		sec-Butylbenzene	3.062	2.615	14.6	91	0.00
68	S	1-Bromo-4-Fluorobenzene	0.777	0.785	-1.0	95	0.00
69		p-Isopropyltoluene	2.602	2.188	15.9	89	0.00
70		n-Butylbenzene	2.564	2.200	14.2	89	0.00
71		2-Chlorotoluene	1.863	1.645	11.7	91	0.00
72	T	4-Ethyltoluene	1.662	1.464	11.9	90	0.00
73	T	1,3,5-Trimethylbenzene	1.371	1.217	11.2	91	0.00
74	T	1,2,4-Trimethylbenzene	1.534	1.277	16.8	90	0.00
75	T	1,3-Dichlorobenzene	0.890	0.752	15.5	87	0.00
76	T	1,4-Dichlorobenzene	0.897	0.759	15.4	87	0.00
77	T	1,2-Dichlorobenzene	0.861	0.700	18.7	86	0.00
78	T	Hexachloro-1,3-Butadiene	0.667	0.496	25.6	84	0.00
79	T	Naphthalene	1.604	1.336	16.7	80	0.00
80	T	Naphthalene,2-methyl-	0.418	0.424	-1.4	84	0.00
81	T	1,2,4-Trichlorobenzene	0.666	0.557	16.4	82	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043112.D
Acq On : 14 Oct 2025 14:51
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 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	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	10.000	9.425	5.7	98	0.00
3		Chlorodifluoromethane	10.000	9.260	7.4	92	0.00
4		Chloromethane	10.000	8.867	11.3	94	0.00
5	T	Vinyl Chloride	10.000	8.722	12.8	94	0.00
6	T	Bromomethane	10.000	8.901	11.0	97	0.00
7		Chloroethane	10.000	8.685	13.1	96	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.558	4.4	99	0.00
9	T	Propene	10.000	8.908	10.9	87	0.00
10	T	Heptane	10.000	8.629	13.7	88	0.00
11	T	Trichlorofluoromethane	10.000	9.762	2.4	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.380	6.2	101	0.00
13		Ethanol	10.000	7.173	28.3	88	0.00
14	T	Bromoethene	10.000	9.324	6.8	98	0.00
15	T	Acetone	10.000	8.214	17.9	95	0.00
16	T	1,3-Butadiene	10.000	8.855	11.4	97	0.00
17		tert-Butyl alcohol	10.000	9.012	9.9	93	0.00
18	T	1,1-Dichloroethene	10.000	9.774	2.3	102	0.00
19	T	Isopropyl Alcohol	10.000	8.248	17.5	90	0.00
20	T	Methylene Chloride	10.000	7.757	22.4	96	0.00
21	T	Allyl Chloride	10.000	9.181	8.2	94	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.011	9.9	97	0.00
23	T	Vinyl Acetate	10.000	9.621	3.8	110	0.00
24	T	1,1-Dichloroethane	10.000	9.355	6.4	96	0.00
25	T	Ethyl Acetate	10.000	8.966	10.3	90	0.00
26	T	Hexane	10.000	9.015	9.8	93	0.00
27	T	Carbon Disulfide	10.000	9.520	4.8	96	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.839	1.6	110	0.00
29	T	Chloroform	10.000	9.412	5.9	97	0.00
30	T	Cyclohexane	10.000	9.096	9.0	95	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.580	4.2	94	0.00
32	T	1,1,1-Trichloroethane	10.000	9.666	3.3	99	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	95	0.00
34	T	2-Butanone	10.000	8.624	13.8	91	0.00
35	T	Carbon Tetrachloride	10.000	9.298	7.0	98	0.00
36	T	Benzene	10.000	9.077	9.2	94	0.00
37	T	1,2-Dichloroethane	10.000	9.156	8.4	97	0.00
38	T	Trichloroethene	10.000	8.453	15.5	93	0.00
39	T	1,2-Dichloropropane	10.000	8.971	10.3	93	0.00
40	T	1,4-Dioxane	10.000	8.265	17.3	86	0.00
41	T	Tetrahydrofuran	10.000	8.553	14.5	89	0.00
42	T	Bromodichloromethane	10.000	9.336	6.6	96	0.00
43		Methyl Methacrylate	10.000	8.898	11.0	90	0.00
44	T	2,2,4-Trimethylpentane	10.000	8.738	12.6	91	0.00
45	T	t-1,3-Dichloropropene	10.000	9.146	8.5	91	0.00
46	T	cis-1,3-Dichloropropene	10.000	9.106	8.9	91	0.00
47	T	1,1,2-Trichloroethane	10.000	9.000	10.0	94	0.00
48	T	Dibromochloromethane	10.000	9.127	8.7	92	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043112.D
Acq On : 14 Oct 2025 14:51
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 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	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Bromoform	10.000	8.980	10.2	89	0.00
50	T	4-Methyl-2-Pentanone	10.000	8.709	12.9	88	0.00
51	T	2-Hexanone	10.000	8.999	10.0	86	0.00
52	T	Tetrachloroethene	10.000	8.681	13.2	90	0.00
53	T	Toluene	10.000	8.928	10.7	92	0.00
54	T	1,2-Dibromoethane	10.000	8.856	11.4	92	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56		1,1,1,2-Tetrachloroethane	10.000	9.031	9.7	91	0.00
57	T	Chlorobenzene	10.000	8.770	12.3	91	0.00
58	T	Ethyl Benzene	10.000	8.990	10.1	91	0.00
59	T	m/p-Xylene	20.000	17.913	10.4	93	0.02
60	T	o-Xylene	10.000	8.834	11.7	92	0.00
61	T	Styrene	10.000	9.099	9.0	91	0.00
62		Isopropylbenzene	10.000	8.726	12.7	90	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	8.177	18.2	90	0.00
64		n-propylbenzene	10.000	8.503	15.0	88	0.00
65		tert-Butylbenzene	10.000	8.464	15.4	91	0.00
66	T	Benzyl Chloride	10.000	8.306	16.9	78	0.00
67		sec-Butylbenzene	10.000	8.541	14.6	91	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.101	-1.0	95	0.00
69		p-Isopropyltoluene	10.000	8.411	15.9	89	0.00
70		n-Butylbenzene	10.000	8.579	14.2	89	0.00
71		2-Chlorotoluene	10.000	8.828	11.7	91	0.00
72	T	4-Ethyltoluene	10.000	8.807	11.9	90	0.00
73	T	1,3,5-Trimethylbenzene	10.000	8.874	11.3	91	0.00
74	T	1,2,4-Trimethylbenzene	10.000	8.324	16.8	90	0.00
75	T	1,3-Dichlorobenzene	10.000	8.454	15.5	87	0.00
76	T	1,4-Dichlorobenzene	10.000	8.458	15.4	87	0.00
77	T	1,2-Dichlorobenzene	10.000	8.132	18.7	86	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	7.440	25.6	84	0.00
79	T	Naphthalene	10.000	8.334	16.7	80	0.00
80	T	Naphthalene,2-methyl-	10.000	10.146	-1.5	84	0.00
81	T	1,2,4-Trichlorobenzene	10.000	8.373	16.3	82	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: RTPE01

Lab Code: ACE | SDG No.: Q3627

Instrument ID: MSVOA_L | Calibration Date/Time: 11/13/2025 09:01

Lab File ID: VL043191.D | Init. Calib. Date(s): 10/14/2025 10/14/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 10:31 14:18

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.422	1.319		-7.24	30
Chloromethane	0.563	0.466		-17.23	30
Vinyl Chloride	0.552	0.462		-16.3	30
Bromomethane	0.303	0.274		-9.57	30
Chloroethane	0.226	0.184		-18.58	30
Tetrahydrofuran	0.376	0.402		6.91	30
Trichlorofluoromethane	1.391	1.439		3.45	30
1,1,2-Trichlorotrifluoroethane	1.120	1.109		-0.98	30
Dichlorotetrafluoroethane	1.149	1.056		-8.09	30
tert-Butyl alcohol	1.850	1.497		-19.08	30
Heptane	1.964	1.814		-7.64	30
1,1-Dichloroethene	0.488	0.477		-2.25	30
Acetone	1.348	1.108		-17.8	30
Carbon Disulfide	1.411	1.357		-3.83	30
Methyl tert-Butyl Ether	0.701	0.594		-15.26	30
Methylene Chloride	0.533	0.432		-18.95	30
trans-1,2-Dichloroethene	0.583	0.545		-6.52	30
1,1-Dichloroethane	1.127	1.049		-6.92	30
Cyclohexane	1.344	1.141		-15.1	30
2-Butanone	0.672	0.803		19.49	30
Carbon Tetrachloride	0.719	0.796		10.71	30
cis-1,2-Dichloroethene	1.471	1.360		-7.55	30
Chloroform	2.232	2.170		-2.78	30
1,1,1-Trichloroethane	2.324	2.065		-11.15	30
2,2,4-Trimethylpentane	1.589	1.808		13.78	30
Benzene	0.942	1.040		10.4	30
1,2-Dichloroethane	0.543	0.600		10.5	30
Trichloroethene	0.393	0.378		-3.82	30
1,2-Dichloropropane	0.344	0.389		13.08	30
Bromodichloromethane	0.751	0.848		12.92	30
4-Methyl-2-Pentanone	0.928	1.011		8.94	30
Toluene	1.118	1.100		-1.61	30
t-1,3-Dichloropropene	0.480	0.454		-5.42	30
cis-1,3-Dichloropropene	0.573	0.570		-0.52	30
1,1,2-Trichloroethane	0.372	0.406		9.14	30
Dibromochloromethane	0.622	0.667		7.24	30
1,2-Dibromoethane	0.582	0.608		4.47	30
Tetrachloroethene	0.340	0.342		0.59	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: Alliance
Contract: RTPE01
Lab Code: ACE
SDG No.: Q3627
Instrument ID: MSVOA_L
Calibration Date/Time: 11/13/2025 09:01
Lab File ID: VL043191.D
Init. Calib. Date(s): 10/14/2025 10/14/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 10:31 14:18
GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.936	1.043		11.43	30
Ethyl Benzene	1.716	1.809		5.42	30
m/p-Xylene	1.369	1.511		10.37	30
o-Xylene	1.352	1.499		10.87	30
Styrene	0.610	0.601		-1.48	30
Bromoform	0.505	0.589		16.63	30
1,1,2,2-Tetrachloroethane	0.905	1.049		15.91	30
2-Chlorotoluene	1.863	2.050		10.04	30
1,3,5-Trimethylbenzene	1.371	1.537		12.11	30
1,2,4-Trimethylbenzene	1.534	1.694		10.43	30
1,3-Dichlorobenzene	0.890	1.050		17.98	30
1,4-Dichlorobenzene	0.897	1.033		15.16	30
1,2-Dichlorobenzene	0.861	1.000		16.14	30
1,2,4-Trichlorobenzene	0.666	0.710		6.61	30
Hexachloro-1,3-Butadiene	0.667	0.696		4.35	30
1,3-Butadiene	0.642	0.503		-21.65	30
Naphthalene	1.604	1.673		4.3	30
4-Ethyltoluene	1.662	1.880		13.12	30
1-Bromo-4-Fluorobenzene	0.777	0.809		4.12	30
Hexane	1.540	1.468		-4.68	30
Allyl Chloride	0.993	0.839		-15.51	30
1,4-Dioxane	154.080	151.175		-1.88	30
Methyl Methacrylate	0.478	0.488		2.09	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\VL111325\
Data File : VL043191.D
Acq On : 13 Nov 2025 09:01
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:35:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	141757	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	379323	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	324654	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	262602	10.406	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	186958	9.277	ppbv	98
3) Chlorodifluoromethane	1.480	51	207578	9.520	ppbv	99
4) Chloromethane	1.538	50	66004	8.267	ppbv	100
5) Vinyl Chloride	1.586	62	65529	8.368	ppbv	97
6) Bromomethane	1.674	94	38785	9.032	ppbv	97
7) Chloroethane	1.709	64	26067	8.142	ppbv	98
8) Dichlorotetrafluoroethane	1.560	85	149728	9.192	ppbv	92
9) Propene	1.489	41	79350	8.205	ppbv	99
10) Heptane	4.995	43	257113	9.235	ppbv	98
11) Trichlorofluoromethane	1.884	101	203965	10.347	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	157214	9.906	ppbv	96
13) Ethanol	1.726	45	22877	6.395	ppbv	95
14) Bromoethene	1.787	108	55856	9.474	ppbv	99
15) Acetone	1.839	43	157089	8.222	ppbv	100
16) 1,3-Butadiene	1.612	39	71284	7.828	ppbv	100
17) tert-Butyl alcohol	2.043	59	212144	8.089	ppbv	99
18) 1,1-Dichloroethene	2.039	96	67616	9.773	ppbv	92
19) Isopropyl Alcohol	1.891	45	89741	7.541	ppbv	90
20) Methylene Chloride	2.069	84	61280	8.114	ppbv	97
21) Allyl Chloride	2.101	41	118968	8.450	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	77213	9.336	ppbv	97
23) Vinyl Acetate	2.467	43	288816	10.319	ppbv #	99
24) 1,1-Dichloroethane	2.415	63	148680	9.305	ppbv	99
25) Ethyl Acetate	2.839	43	458770	9.682	ppbv	99
26) Hexane	2.836	57	208153	9.534	ppbv	99
27) Carbon Disulfide	2.156	76	192431	9.620	ppbv	100
28) Methyl tert-Butyl Ether	2.447	73	84272	8.484	ppbv	95
29) Chloroform	2.855	83	307588	9.723	ppbv	100
30) Cyclohexane	3.868	84	161792	8.490	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	192730	9.244	ppbv	99
32) 1,1,1-Trichloroethane	3.376	97	292767	8.887	ppbv	97
34) 2-Butanone	2.561	43	304449	11.940	ppbv	98
35) Carbon Tetrachloride	3.774	117	302120	11.078	ppbv	95
36) Benzene	3.668	78	394397	11.039	ppbv	97
37) 1,2-Dichloroethane	3.227	62	227409	11.049	ppbv	98
38) Trichloroethene	4.561	130	143231	9.599	ppbv	99
39) 1,2-Dichloropropane	4.328	63	147718	11.310	ppbv	97
40) 1,4-Dioxane	4.590	88	57344	9.811	ppbv #	95
41) Tetrahydrofuran	3.059	42	152660	10.704	ppbv	96
42) Bromodichloromethane	4.499	83	321852	11.299	ppbv	99
43) Methyl Methacrylate	4.891	69	184954	10.193	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	685708	11.376	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	172223	9.458	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043191.D
Acq On : 13 Nov 2025 09:01
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:35:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.616	75	216380	9.947	ppbv		99
47)	1,1,2-Trichloroethane	6.590	97	154071	10.924	ppbv		97
48)	Dibromochloromethane	7.396	129	253004	10.729	ppbv		100
49)	Bromoform	9.493	173	223457	11.657	ppbv		100
50)	4-Methyl-2-Pentanone	5.762	43	383415	10.896	ppbv		97
51)	2-Hexanone	7.445	43	290059	10.990	ppbv	#	95
52)	Tetrachloroethene	8.238	164	129582	10.058	ppbv		96
53)	Toluene	6.946	91	417333	9.842	ppbv		100
54)	1,2-Dibromoethane	7.662	107	230500	10.434	ppbv		99
56)	1,1,1,2-Tetrachloroethane	8.934	131	238374	11.648	ppbv		100
57)	Chlorobenzene	8.930	112	338588	11.148	ppbv		98
58)	Ethyl Benzene	9.364	91	587423	10.543	ppbv		99
59)	m/p-Xylene	9.558	91	981214m	22.079	ppbv		
60)	o-Xylene	9.973	91	486760	11.090	ppbv		100
61)	Styrene	9.879	104	195183	9.851	ppbv		99
62)	Isopropylbenzene	10.549	105	881218	11.111	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.969	83	340692	11.592	ppbv		100
64)	n-propylbenzene	10.995	120	234766	11.181	ppbv		95
65)	tert-Butylbenzene	11.539	119	751341	10.727	ppbv		99
66)	Benzyl Chloride	11.623	91	66547	8.537	ppbv		100
67)	sec-Butylbenzene	11.775	105	1102574	11.092	ppbv		100
69)	p-Isopropyltoluene	11.934	119	898238	10.634	ppbv		99
70)	n-Butylbenzene	12.287	91	919213	11.043	ppbv		100
71)	2-Chlorotoluene	10.908	91	665438	11.000	ppbv		100
72)	4-Ethyltoluene	11.131	105	610233	11.307	ppbv		99
73)	1,3,5-Trimethylbenzene	11.212	105	498832	11.207	ppbv		97
74)	1,2,4-Trimethylbenzene	11.546	105	550086	11.044	ppbv		88
75)	1,3-Dichlorobenzene	11.613	146	340928	11.801	ppbv		98
76)	1,4-Dichlorobenzene	11.678	146	335522	11.518	ppbv		98
77)	1,2-Dichlorobenzene	11.953	146	324755	11.620	ppbv		98
78)	Hexachloro-1,3-Butadiene	13.889	225	225968	10.443	ppbv		99
79)	Naphthalene	13.520	128	543024	10.430	ppbv		99
80)	Naphthalene,2-methyl-	14.465	142	133878	9.870	ppbv		99
81)	1,2,4-Trichlorobenzene	13.449	180	230586	10.671	ppbv		99

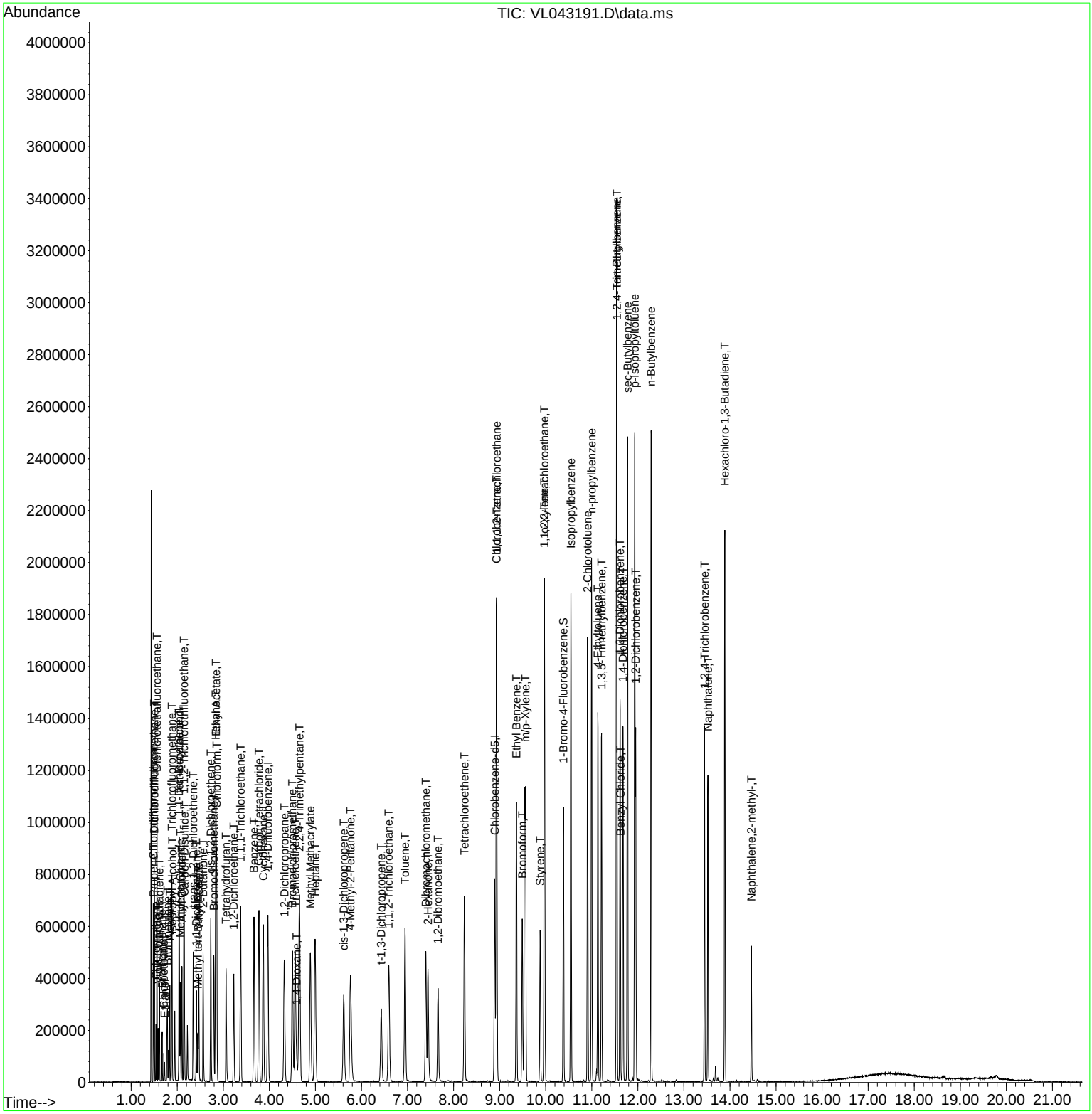
(#) = qualifier out of range (m) = manual integration (+) = signals summed

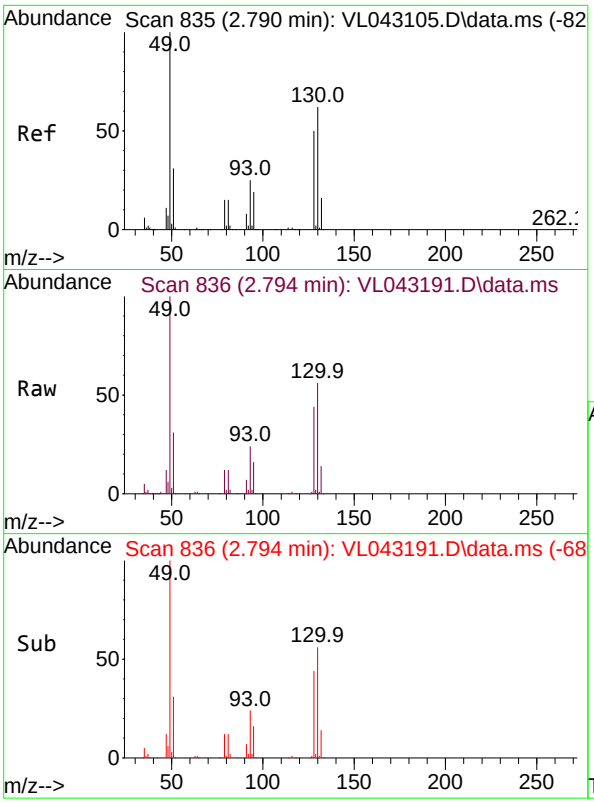
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043191.D
Acq On : 13 Nov 2025 09:01
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:35:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

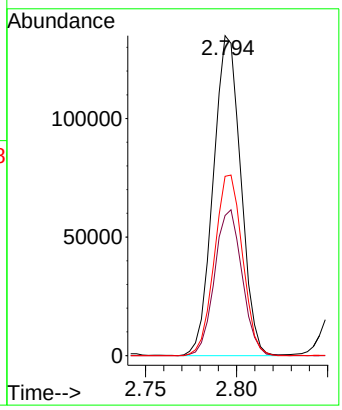




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 49 Resp: 14175

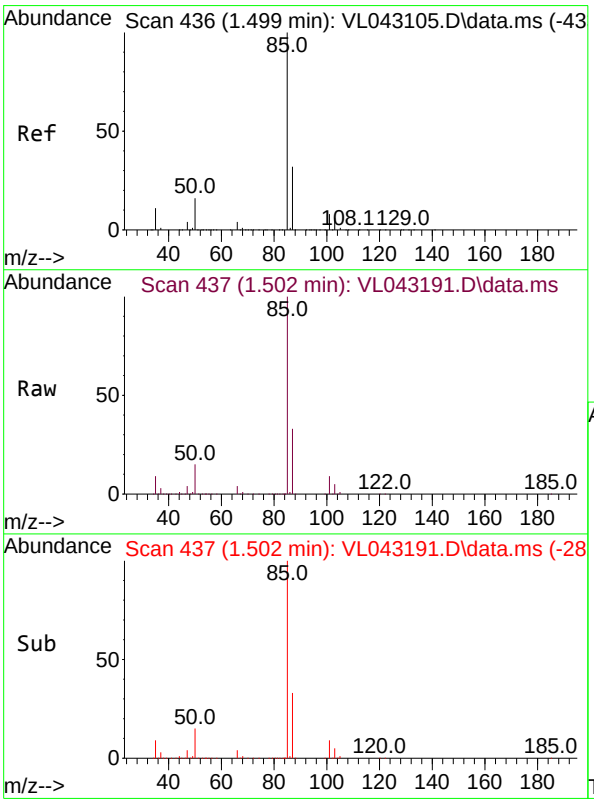
Ion	Ratio	Lower	Upper
49	100		
128	45.6	24.4	73.4
130	57.5	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

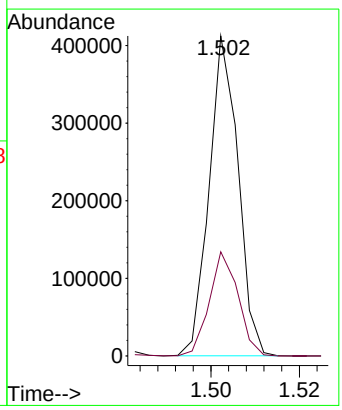
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

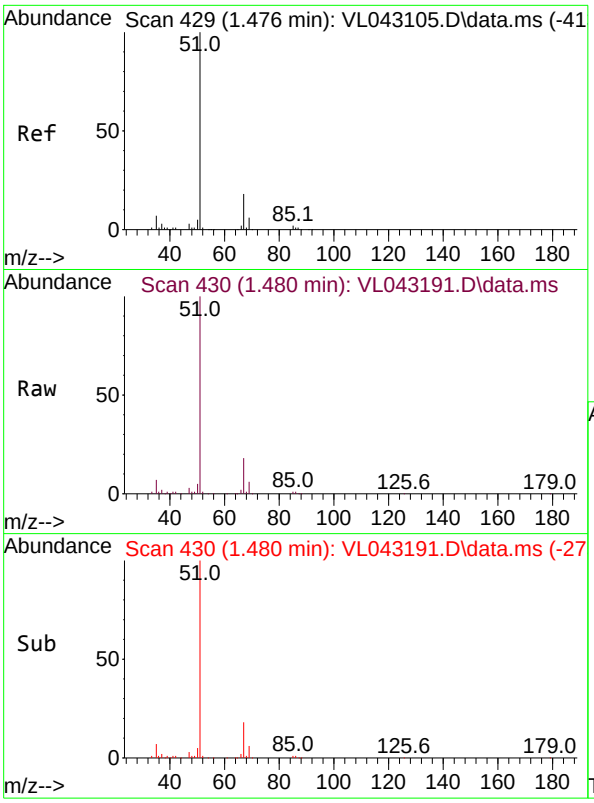


#2
Dichlorodifluoromethane
Concen: 9.277 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 85 Resp: 186958

Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.3	37.9

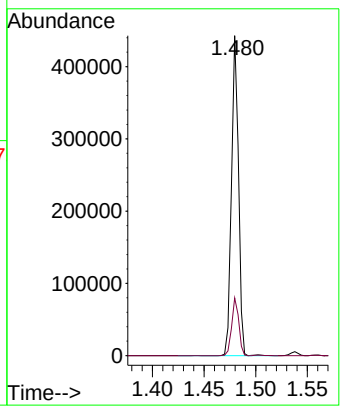




#3
Chlorodifluoromethane
Concen: 9.520 ppbv
RT: 1.480 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 51 Resp: 20757

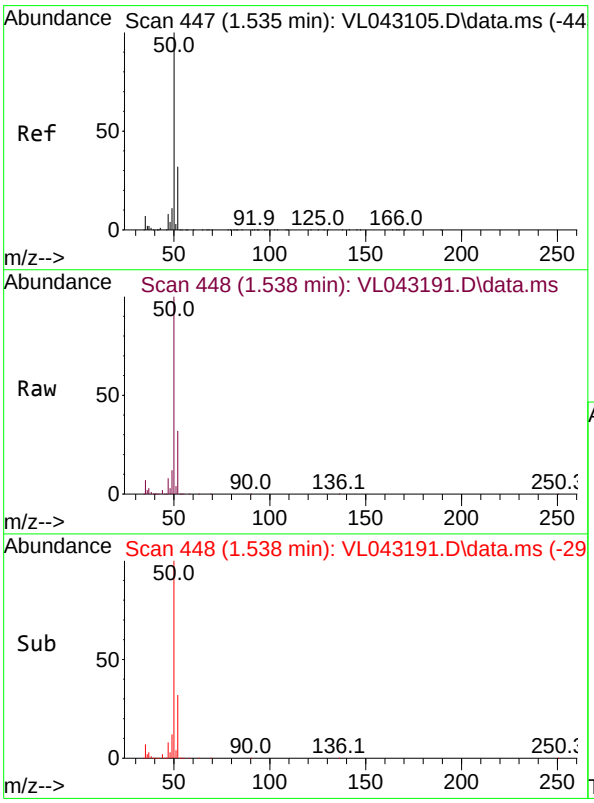
Ion	Ratio	Lower	Upper
51	100		
67	18.3	15.1	22.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

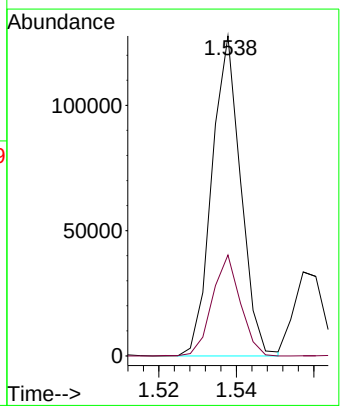
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

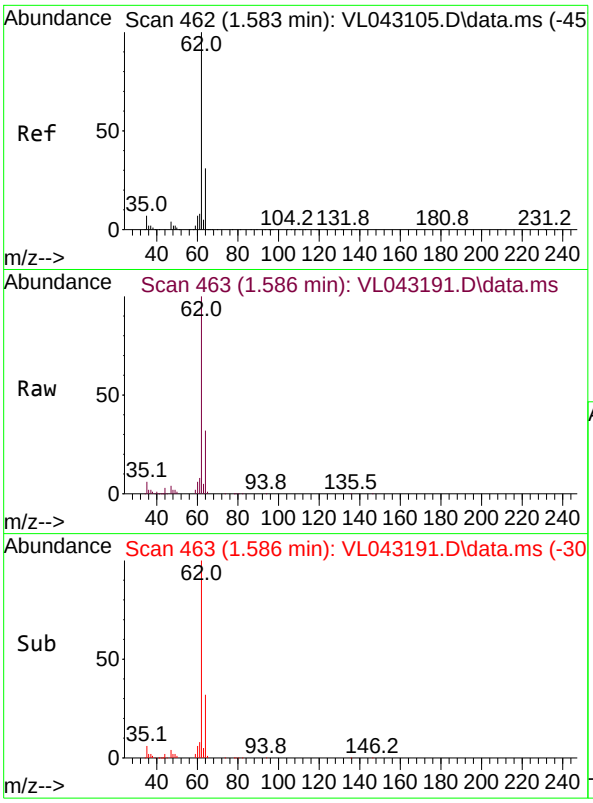


#4
Chloromethane
Concen: 8.267 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 50 Resp: 66004

Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.2	37.8

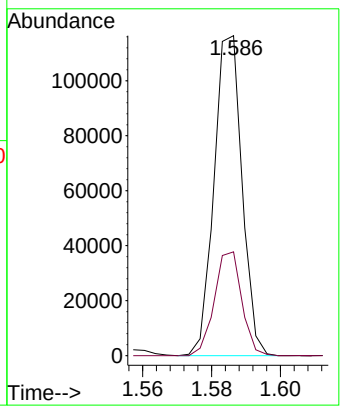




#5
Vinyl Chloride
Concen: 8.368 ppbv
RT: 1.586 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 62 Resp: 6552

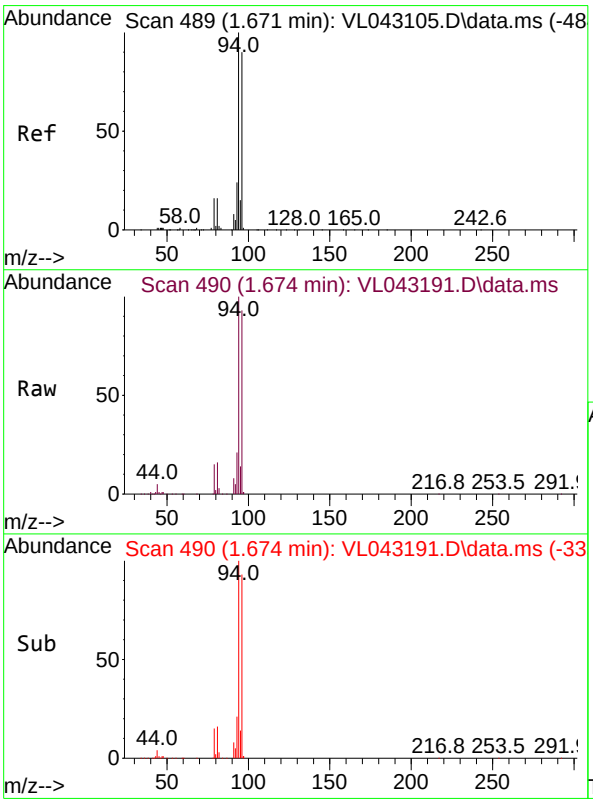
Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

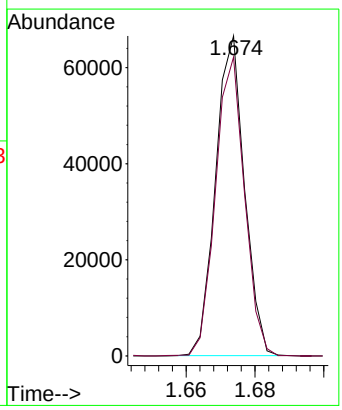
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

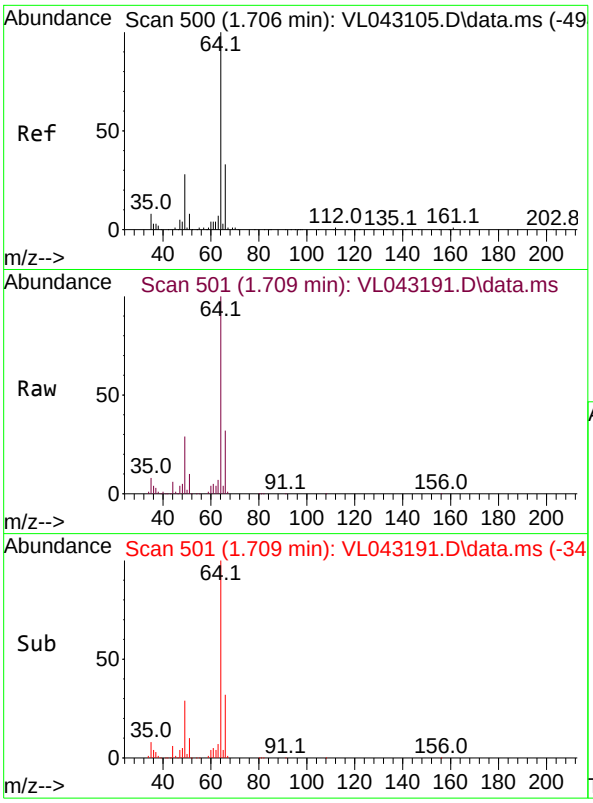


#6
Bromomethane
Concen: 9.032 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 94 Resp: 38785

Ion	Ratio	Lower	Upper
94	100		
96	93.4	72.2	108.4

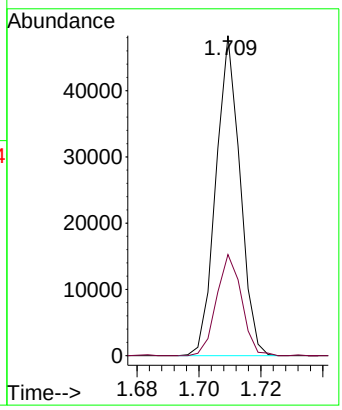




#7
Chloroethane
Concen: 8.142 ppbv
RT: 1.709 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 64 Resp: 2606

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.0	39.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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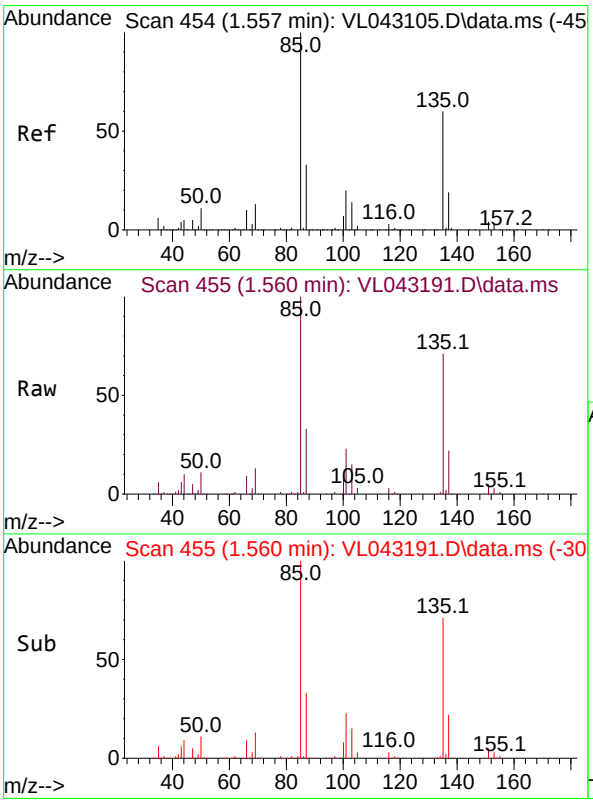
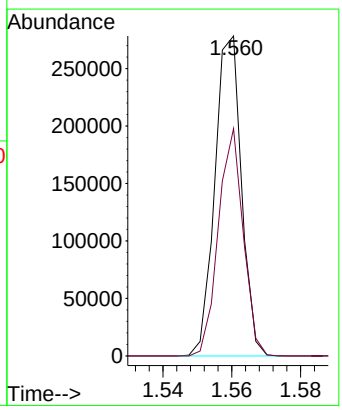
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

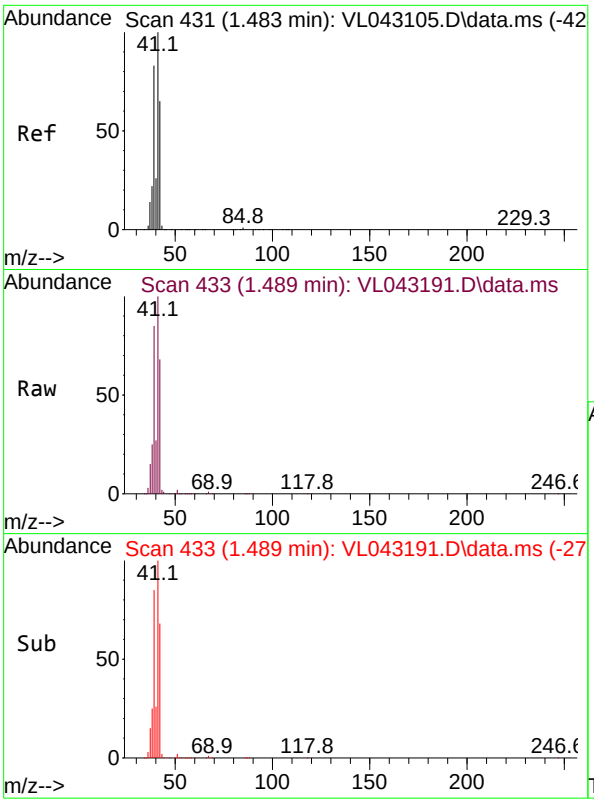


#8
Dichlorotetrafluoroethane
Concen: 9.192 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 85 Resp: 149728

Ion	Ratio	Lower	Upper
85	100		
135	66.2	48.2	72.4

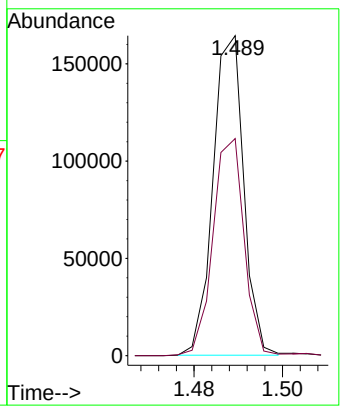




#9
Propene
Concen: 8.205 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 41 Resp: 7935

Ion	Ratio	Lower	Upper
41	100		
42	69.7	55.1	82.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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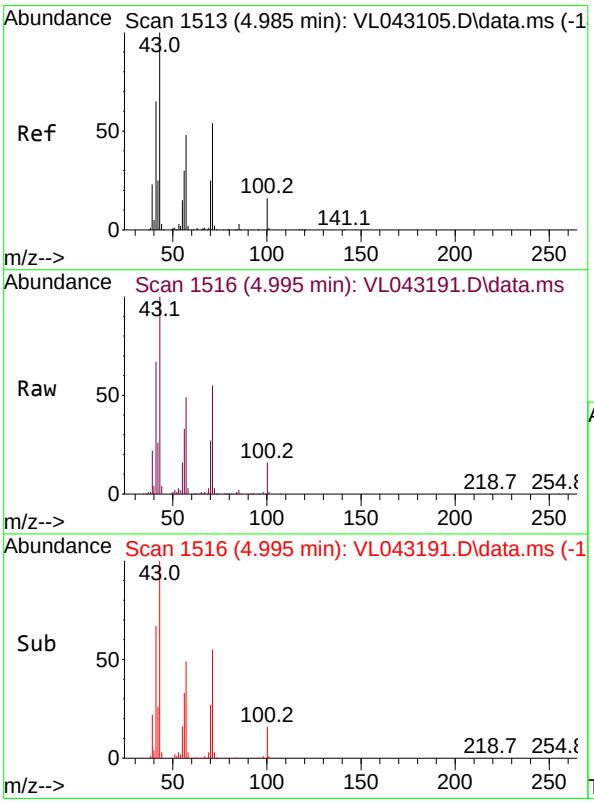
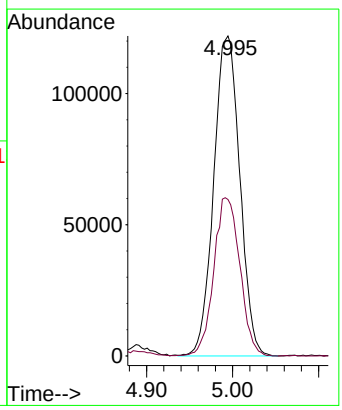
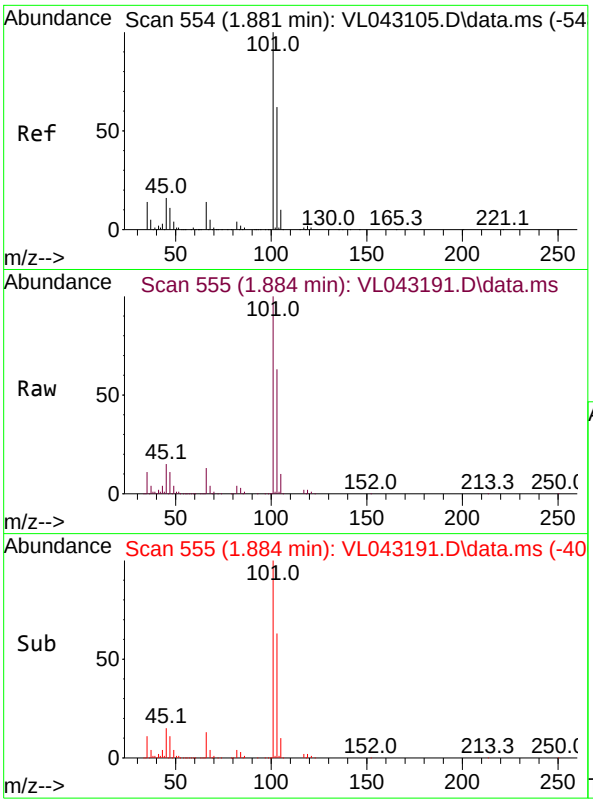


#10
Heptane
Concen: 9.235 ppbv
RT: 4.995 min Scan# 1516
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 43 Resp: 257113

Ion	Ratio	Lower	Upper
43	100		
57	49.3	40.8	61.2

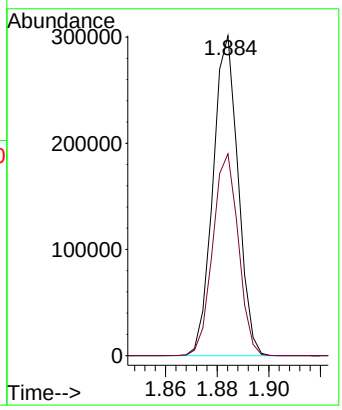




#11
Trichlorofluoromethane
Concen: 10.347 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:101 Resp: 20396

Ion	Ratio	Lower	Upper
101	100		
103	63.1	49.3	73.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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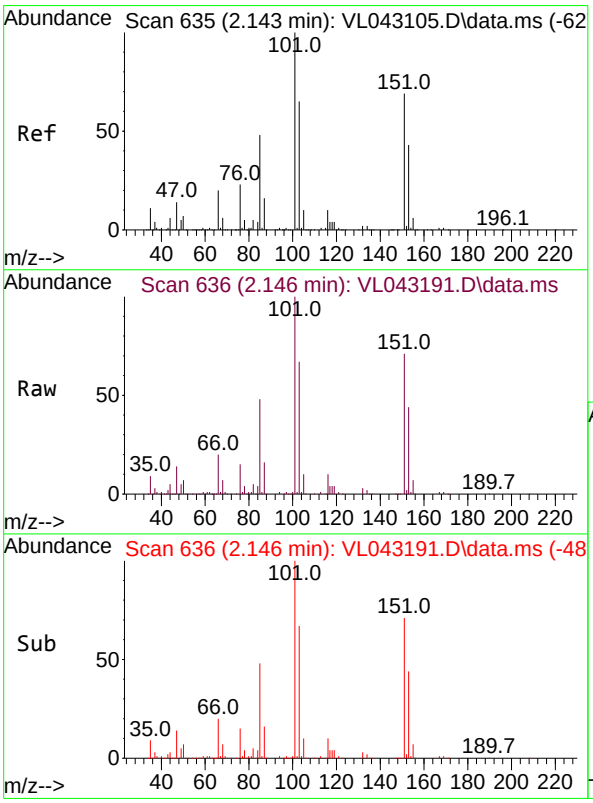
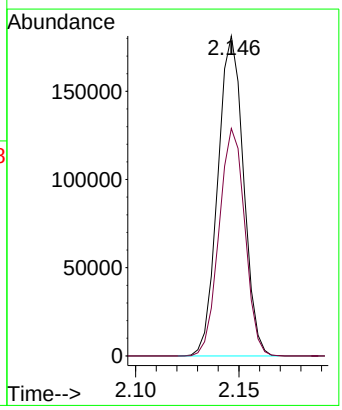
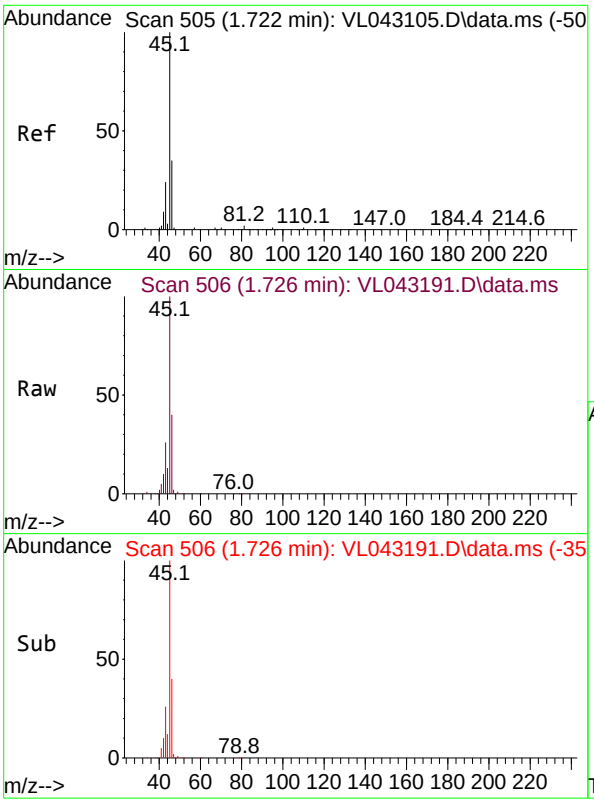


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.906 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:101 Resp: 157214

Ion	Ratio	Lower	Upper
101	100		
151	71.3	54.7	82.1

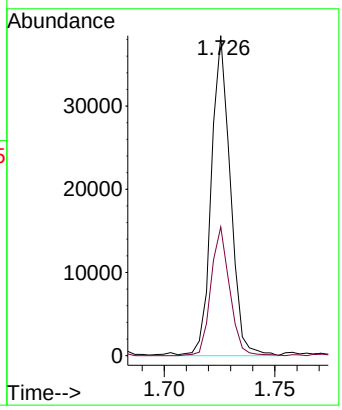




#13
Ethanol
Concen: 6.395 ppbv
RT: 1.726 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 45 Resp: 2287

Ion	Ratio	Lower	Upper
45	100		
46	40.0	14.7	58.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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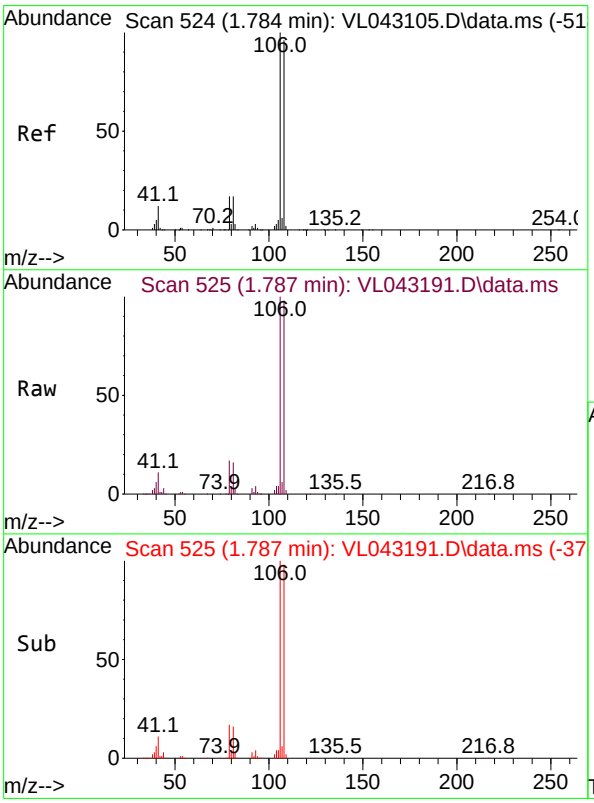
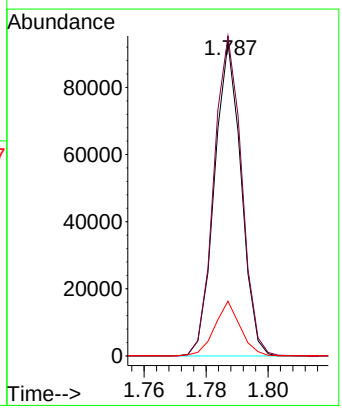
Supervised By :Mahesh Dadoda 11/18/2025

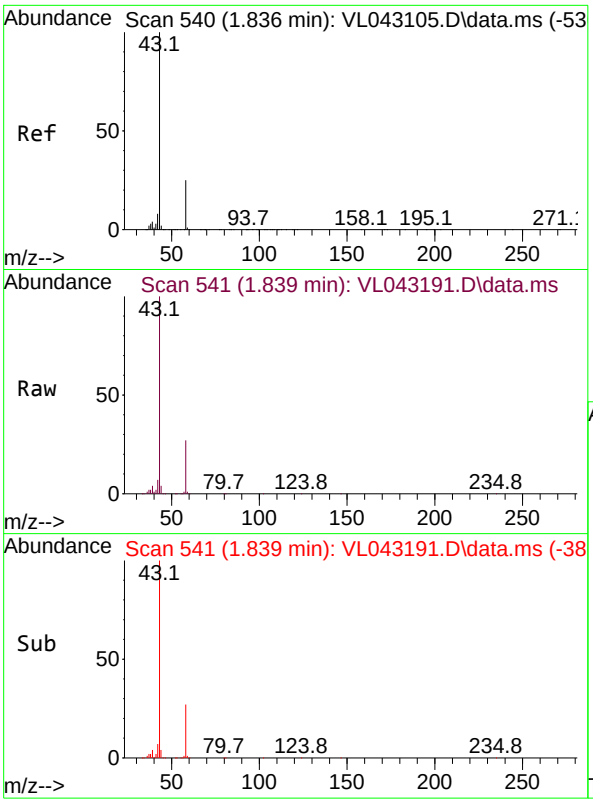


#14
Bromoethene
Concen: 9.474 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:108 Resp: 55856

Ion	Ratio	Lower	Upper
108	100		
106	105.7	84.4	126.6
79	17.0	15.3	22.9

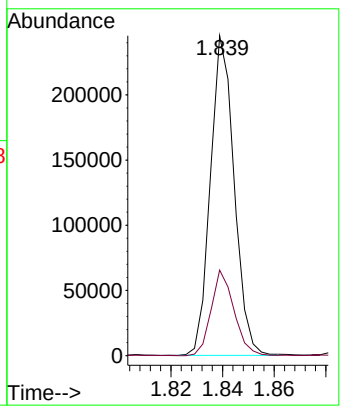




#15
Acetone
Concen: 8.222 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 43 Resp: 15708

Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.8	31.2



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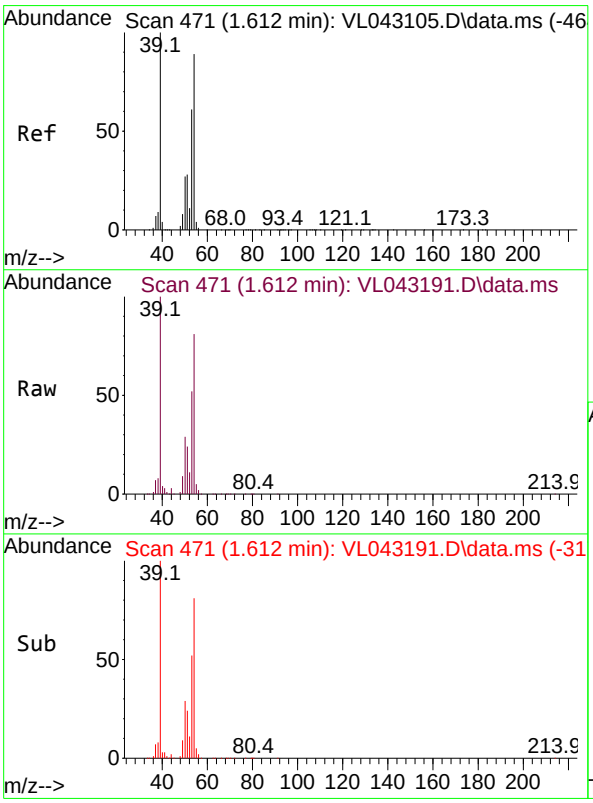
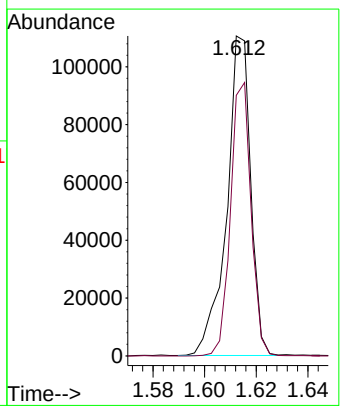
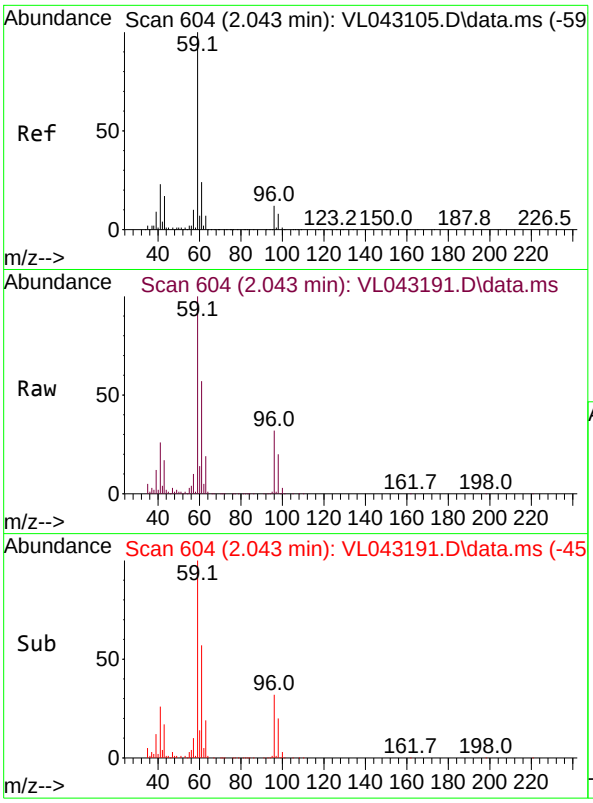


#16
1,3-Butadiene
Concen: 7.828 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 39 Resp: 71284

Ion	Ratio	Lower	Upper
39	100		
54	73.4	59.0	88.4

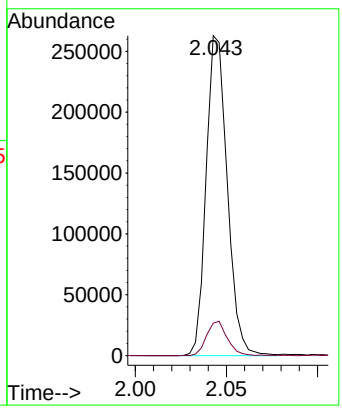




#17
tert-Butyl alcohol
Concen: 8.089 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 59 Resp: 21214

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.2	12.4



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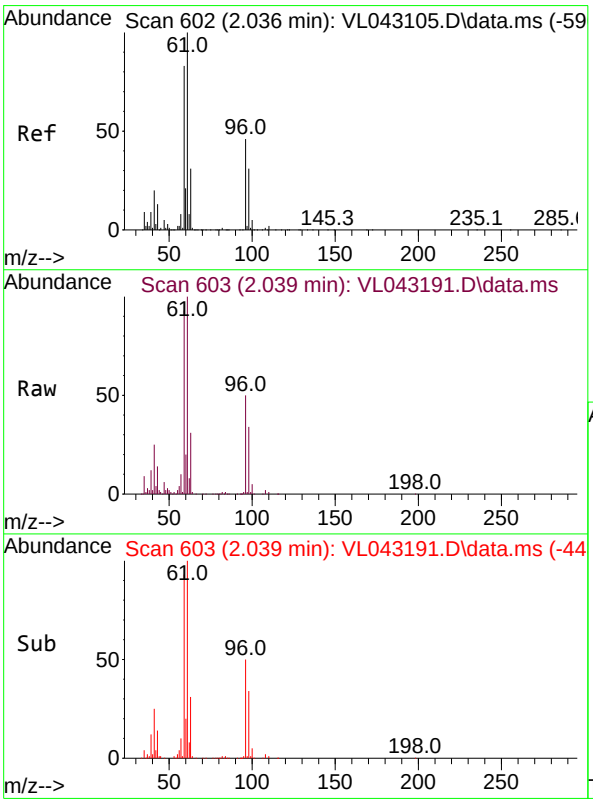
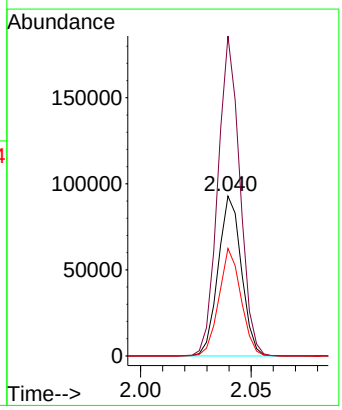
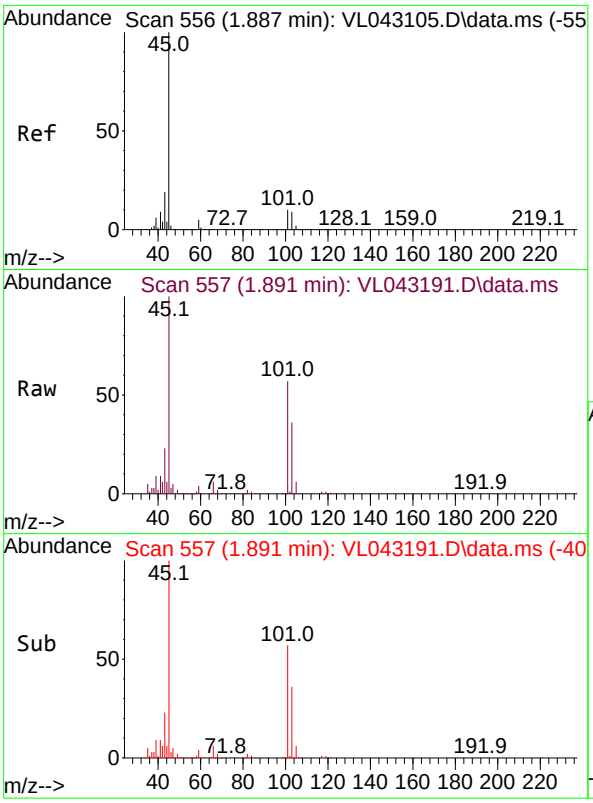


#18
1,1-Dichloroethene
Concen: 9.773 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 96 Resp: 67616

Ion	Ratio	Lower	Upper
96	100		
61	200.3	173.4	260.0
98	67.3	53.2	79.8

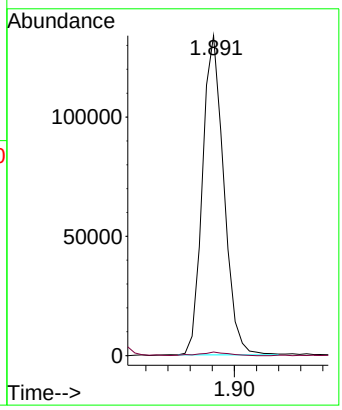




#19
Isopropyl Alcohol
Concen: 7.541 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 45 Resp: 8974

Ion	Ratio	Lower	Upper
45	100		
58	45.2	31.3	46.9



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ClientSampleId :
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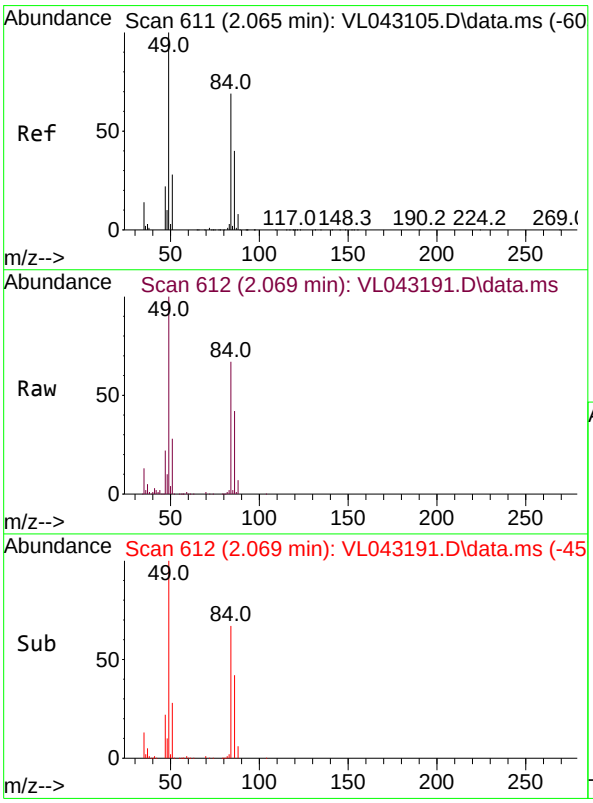
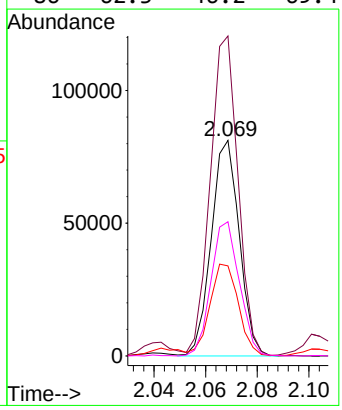
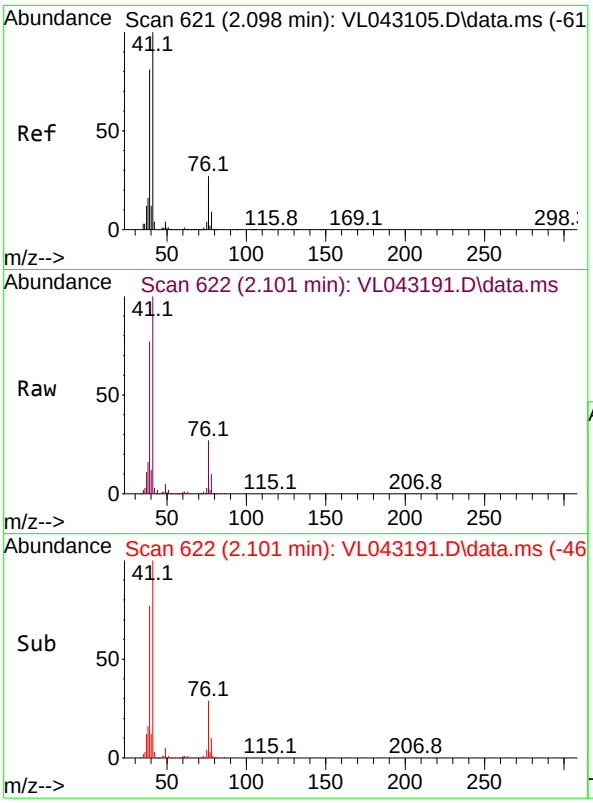


#20
Methylene Chloride
Concen: 8.114 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 84 Resp: 61280

Ion	Ratio	Lower	Upper
84	100		
49	148.2	116.6	175.0
51	41.6	34.8	52.2
86	62.3	46.2	69.4

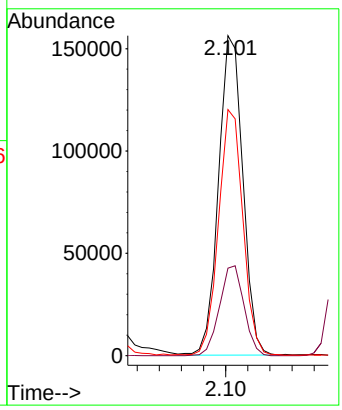




#21
Allyl Chloride
Concen: 8.450 ppbv
RT: 2.101 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 41 Resp: 11896

Ion	Ratio	Lower	Upper
41	100		
76	28.4	21.5	32.3
39	77.2	60.8	91.2



Instrument :
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ClientSampleId :
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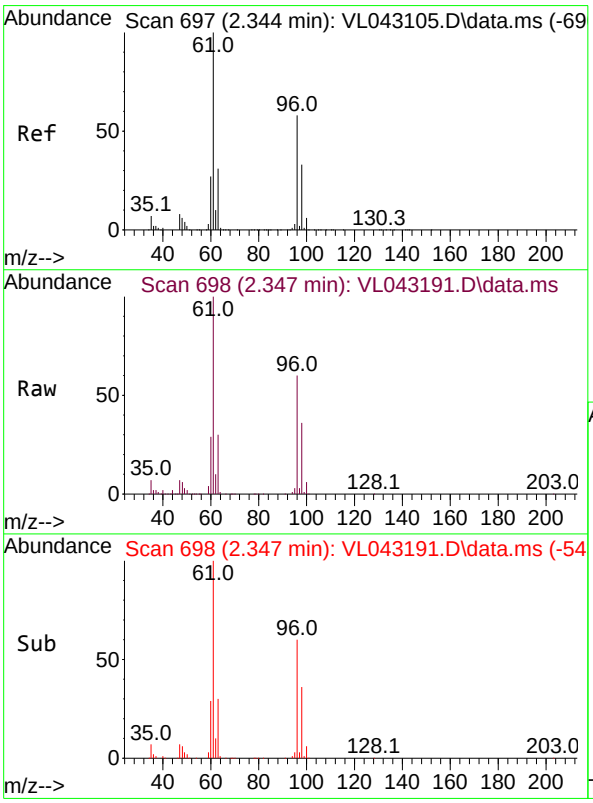
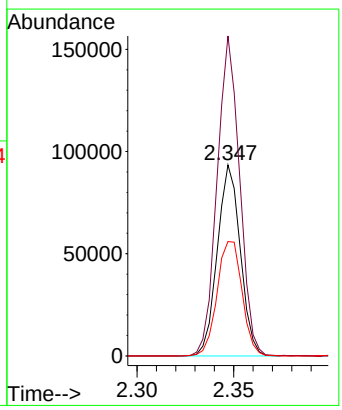
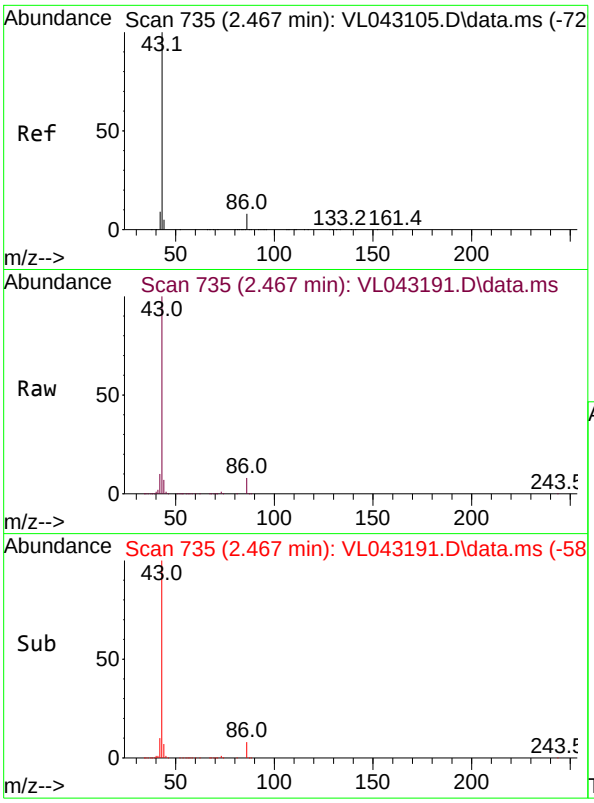


#22
trans-1,2-Dichloroethene
Concen: 9.336 ppbv
RT: 2.347 min Scan# 698
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 96 Resp: 77213

Ion	Ratio	Lower	Upper
96	100		
61	167.6	137.0	205.6
98	59.8	45.5	68.3

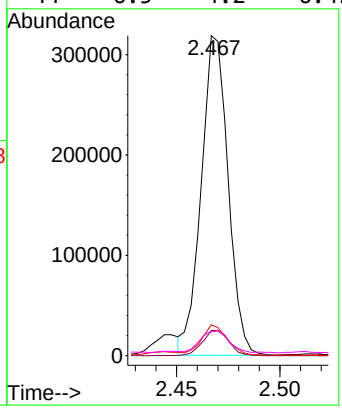




#23
Vinyl Acetate
Concen: 10.319 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 43 Resp: 28881

Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.2	9.2
42	9.5	7.6	11.4
44	6.5	4.2	6.4#



Instrument :
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ClientSampleId :
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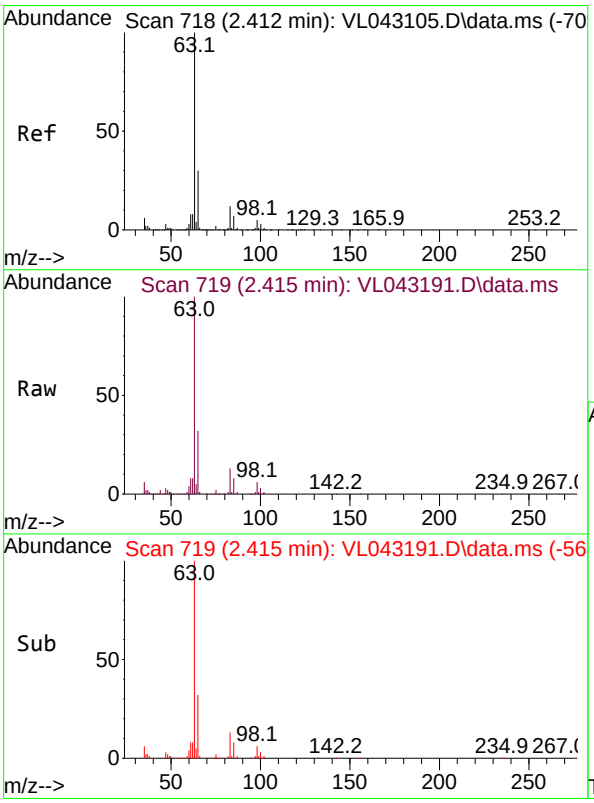
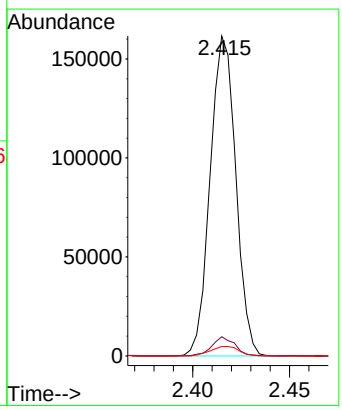
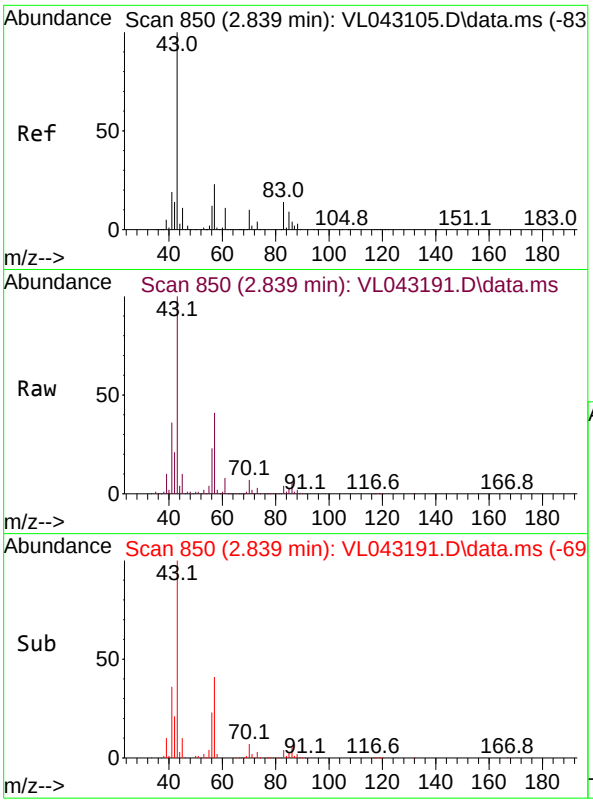


#24
1,1-Dichloroethane
Concen: 9.305 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 63 Resp: 148680

Ion	Ratio	Lower	Upper
63	100		
98	6.0	2.6	7.8
100	2.9	1.5	4.4

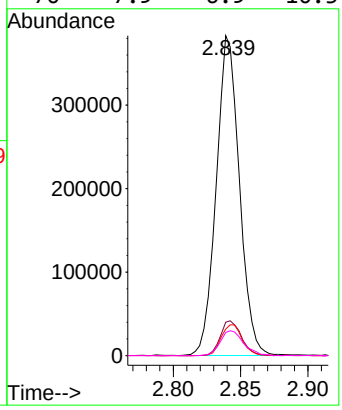




#25
Ethyl Acetate
Concen: 9.682 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 43 Resp: 45877

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.8
61	8.9	7.0	10.6
70	7.9	6.9	10.3



Instrument :
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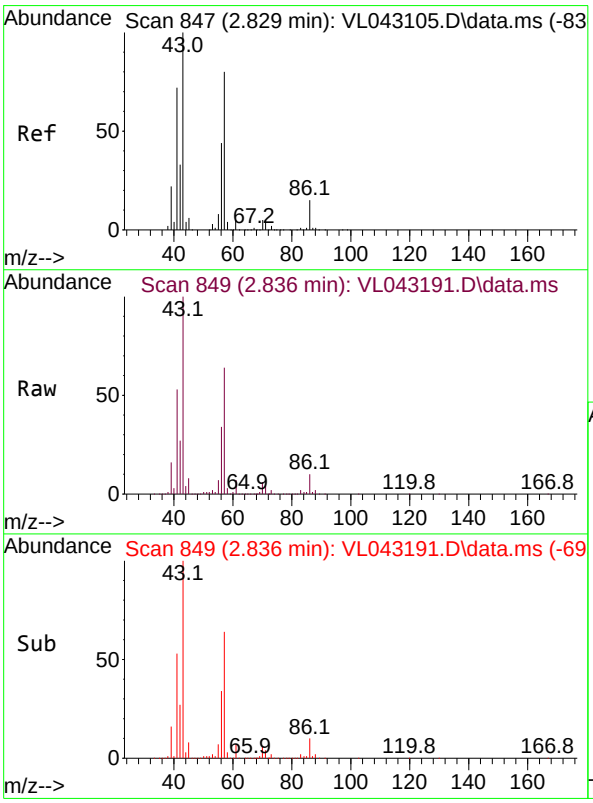
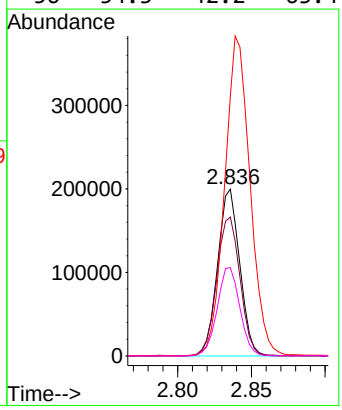
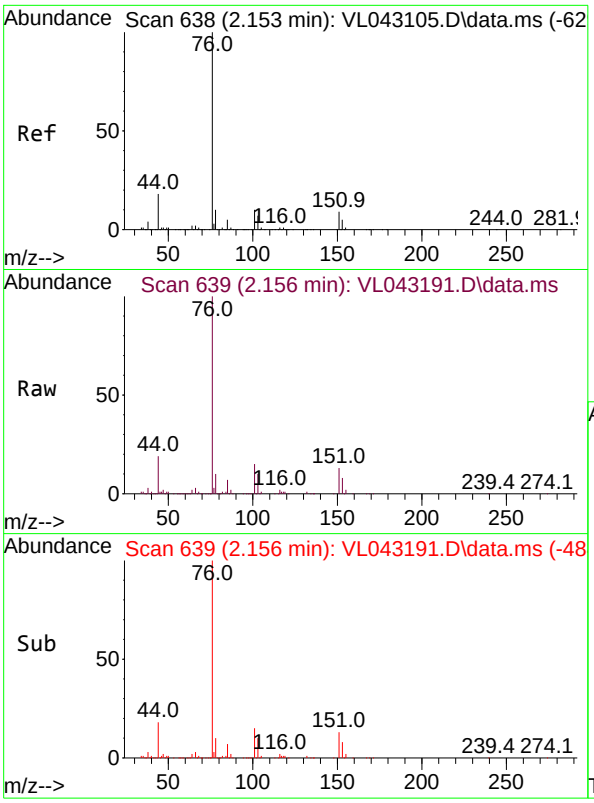


#26
Hexane
Concen: 9.534 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 57 Resp: 208153

Ion	Ratio	Lower	Upper
57	100		
41	88.5	71.4	107.0
43	221.3	178.5	267.7
56	54.3	42.2	63.4

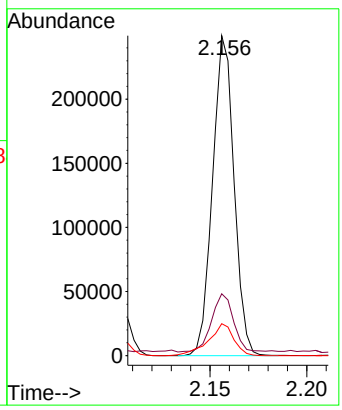




#27
Carbon Disulfide
Concen: 9.620 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 76 Resp: 19243

Ion	Ratio	Lower	Upper
76	100		
44	20.7	16.7	25.1
78	11.7	9.3	13.9



Instrument :
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ClientSampleId :
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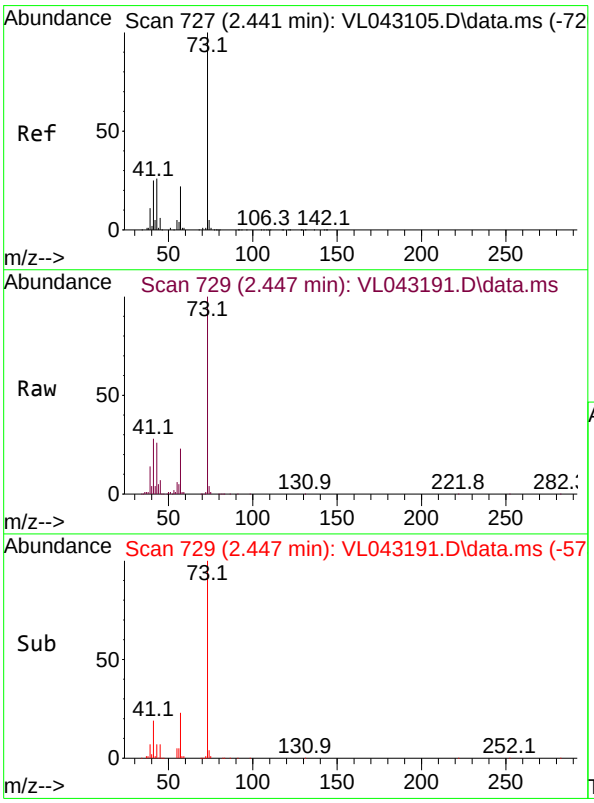
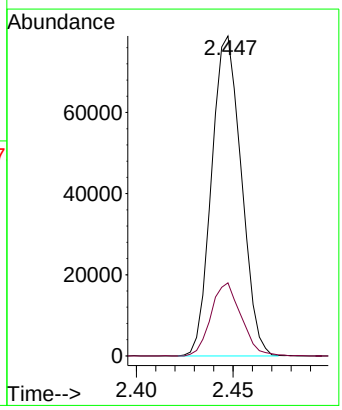
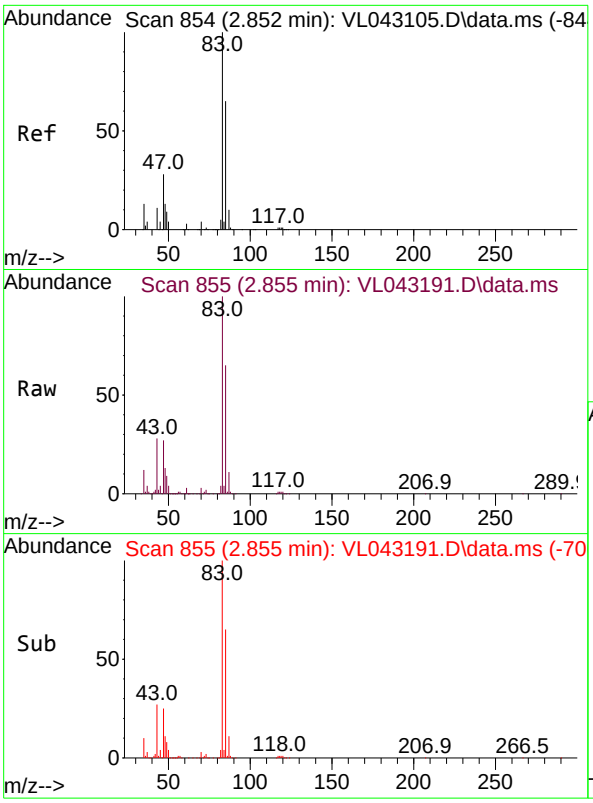


#28
Methyl tert-Butyl Ether
Concen: 8.484 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 73 Resp: 84272

Ion	Ratio	Lower	Upper
73	100		
57	23.2	20.5	30.7





#29
Chloroform
Concen: 9.723 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 83 Resp: 30758

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.8	77.6

Instrument :
MSVOA_L
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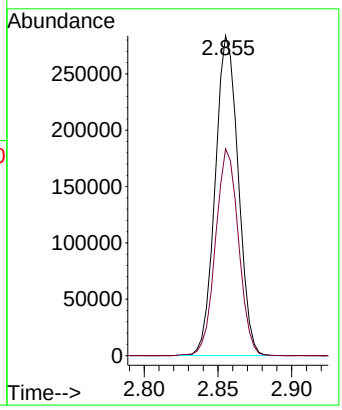
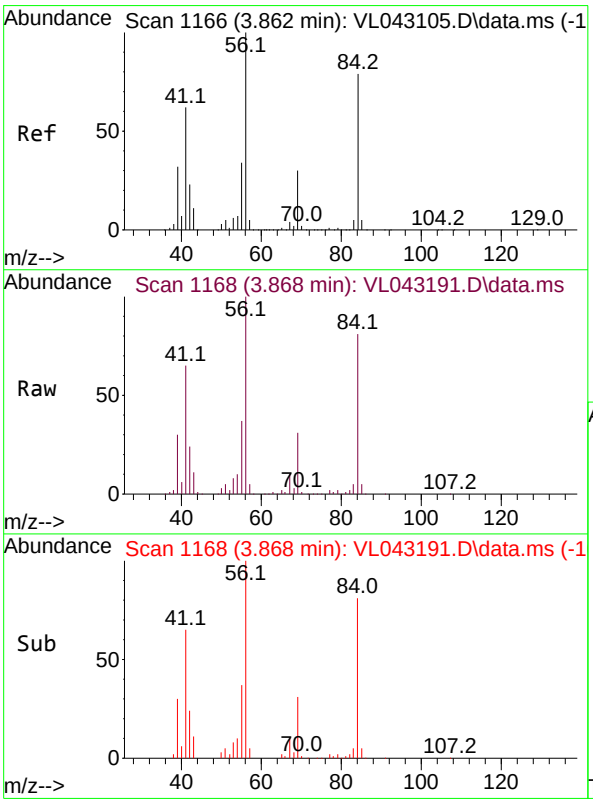
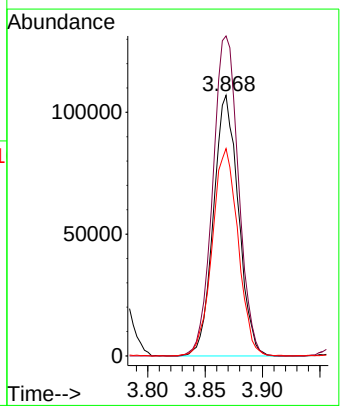


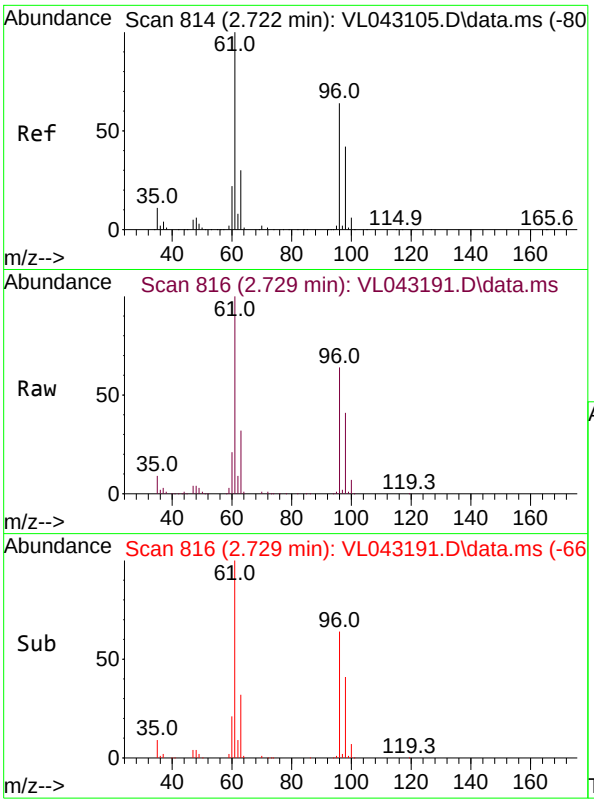


#30
Cyclohexane
Concen: 8.490 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 84 Resp: 161792

Ion	Ratio	Lower	Upper
84	100		
56	126.8	100.9	151.3
41	82.5	63.8	95.6

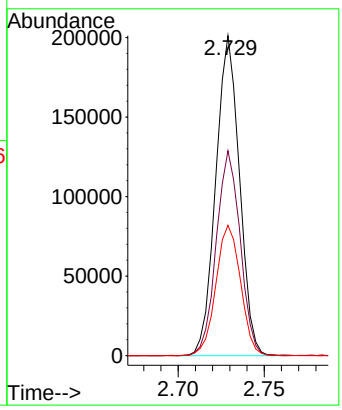




#31
cis-1,2-Dichloroethene
Concen: 9.244 ppbv
RT: 2.729 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 61 Resp: 19273

Ion	Ratio	Lower	Upper
61	100		
96	64.0	51.0	76.6
98	40.7	33.5	50.3



Instrument :
MSVOA_L
ClientSampleId :
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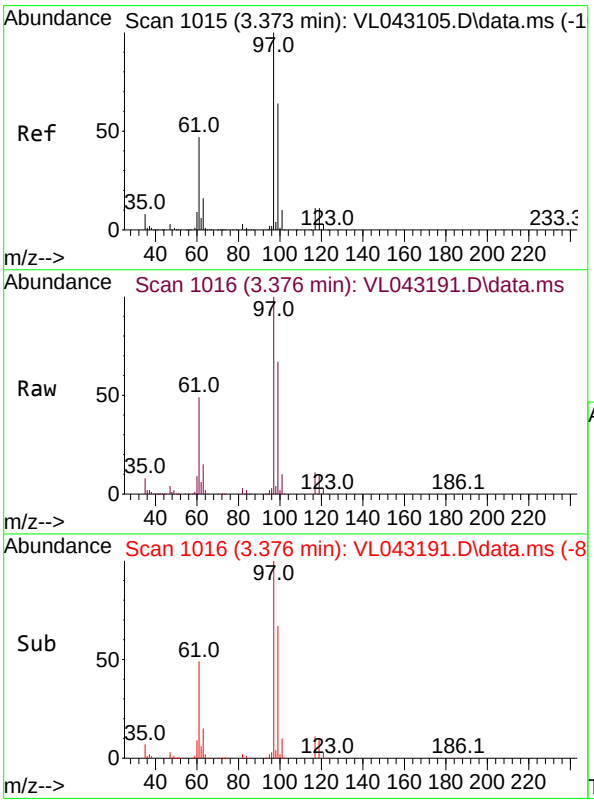
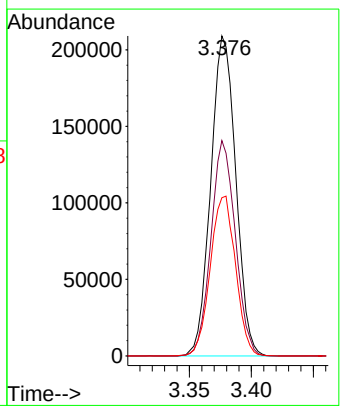
Supervised By :Mahesh Dadoda 11/18/2025

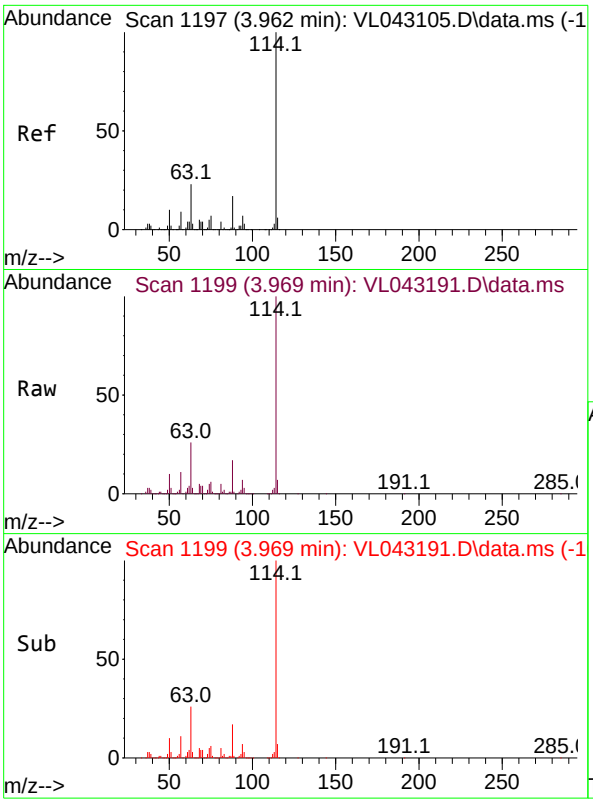


#32
1,1,1-Trichloroethane
Concen: 8.887 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 97 Resp: 292767

Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.3	76.9
61	50.5	38.4	57.6

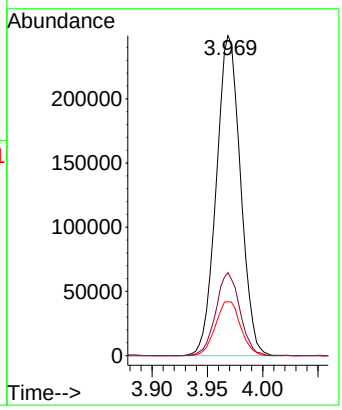




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.969 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:114 Resp: 37932

Ion	Ratio	Lower	Upper
114	100		
63	25.8	19.3	28.9
88	17.6	13.9	20.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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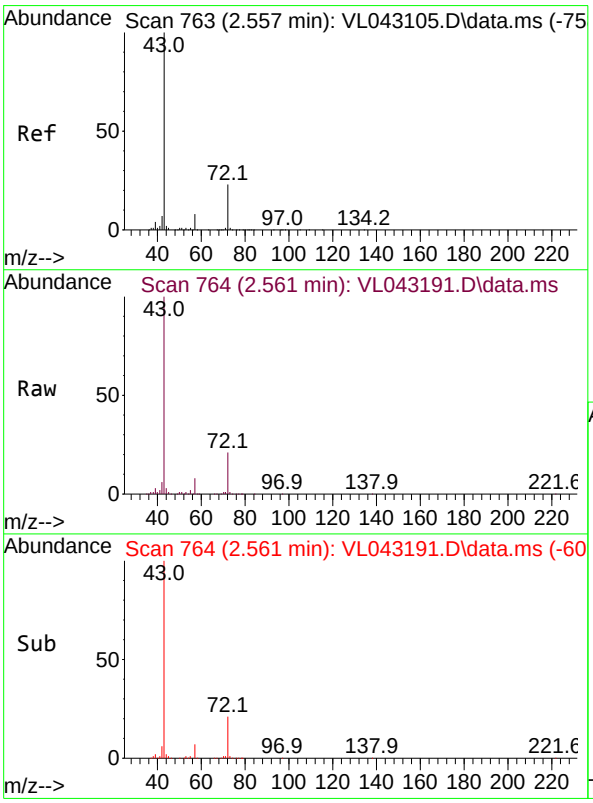
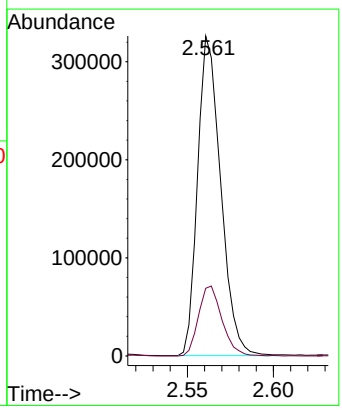
Supervised By :Mahesh Dadoda 11/18/2025

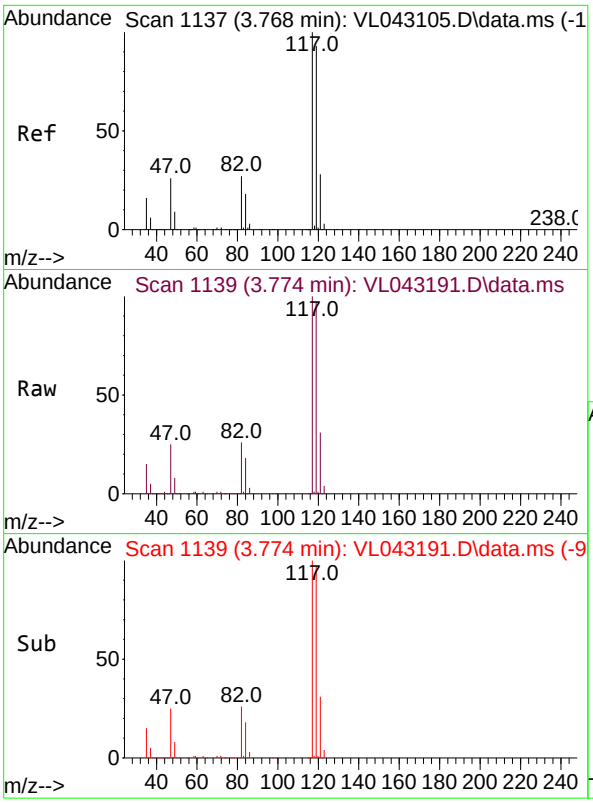


#34
2-Butanone
Concen: 11.940 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 43 Resp: 304449

Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.4	27.6

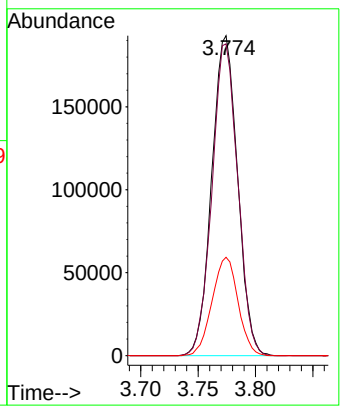




#35
Carbon Tetrachloride
Concen: 11.078 ppbv
RT: 3.774 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:117 Resp: 30212

Ion	Ratio	Lower	Upper
117	100		
119	97.4	74.1	111.1
121	30.7	22.2	33.2



Instrument :
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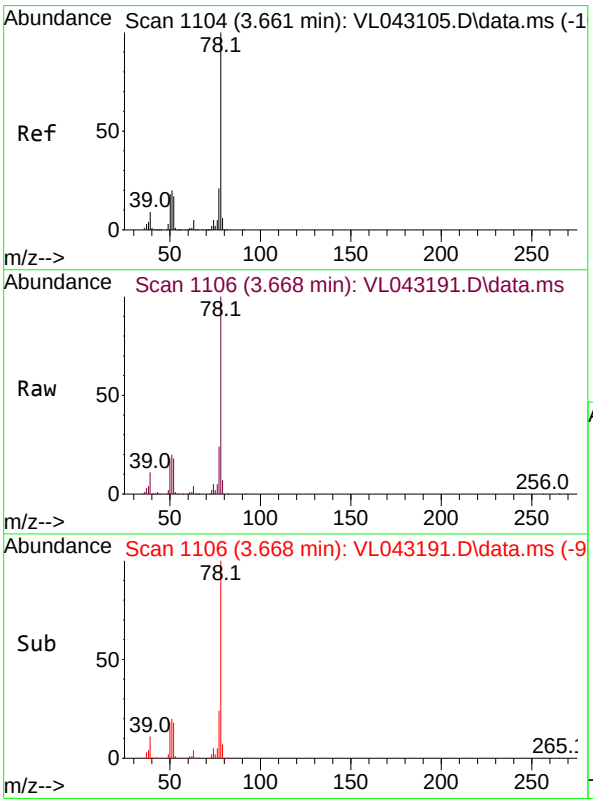
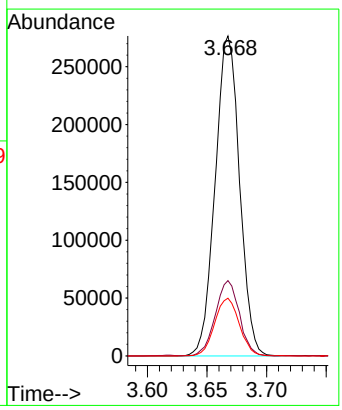
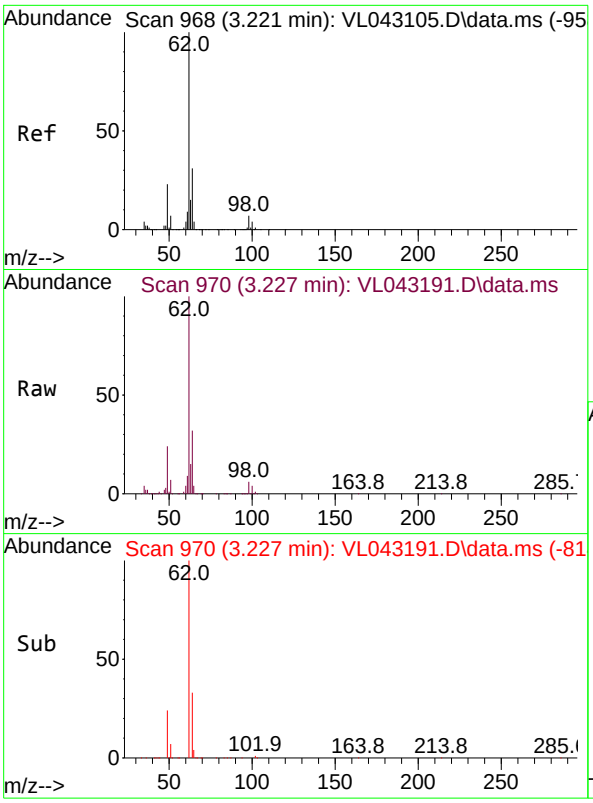


#36
Benzene
Concen: 11.039 ppbv
RT: 3.668 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 78 Resp: 394397

Ion	Ratio	Lower	Upper
78	100		
77	23.5	17.0	25.6
50	18.0	14.6	22.0

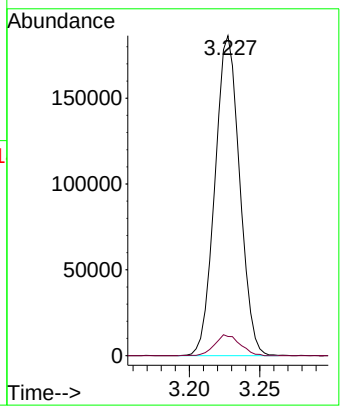




#37
1,2-Dichloroethane
Concen: 11.049 ppbv
RT: 3.227 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 62 Resp: 22740

Ion	Ratio	Lower	Upper
62	100		
98	6.7	5.8	8.6



Instrument :
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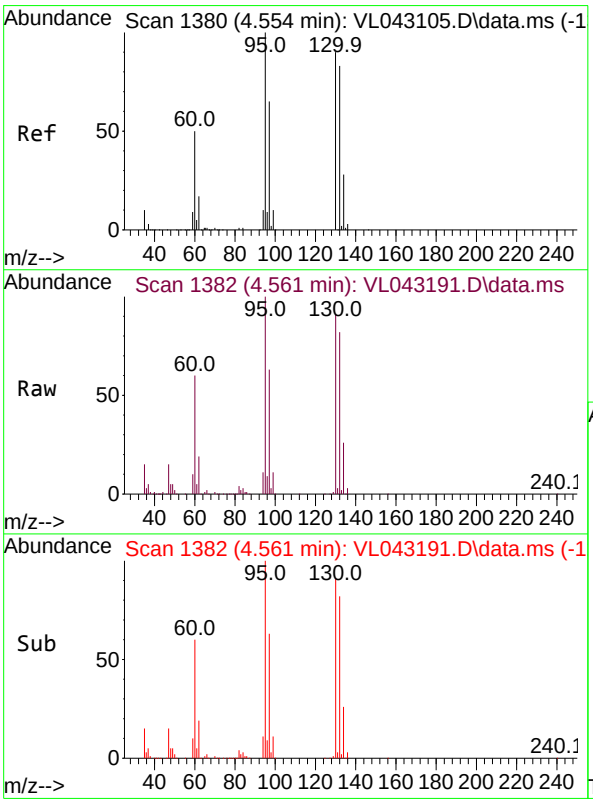
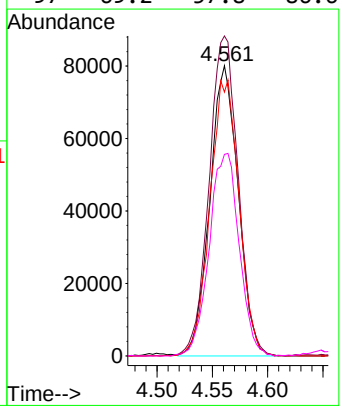
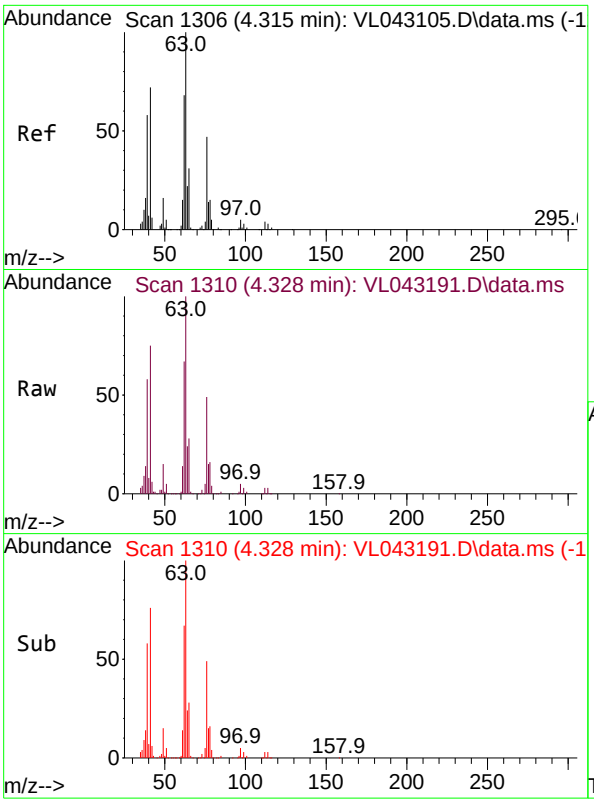


#38
Trichloroethene
Concen: 9.599 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:130 Resp: 143231

Ion	Ratio	Lower	Upper
130	100		
95	110.2	88.6	133.0
132	90.8	73.4	110.0
97	69.2	57.8	86.6

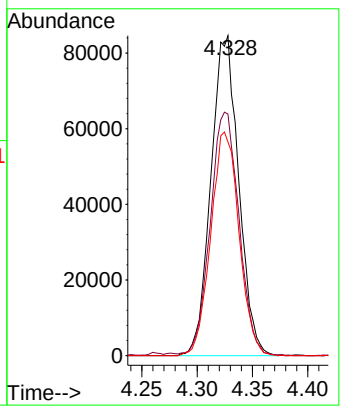




#39
1,2-Dichloropropane
Concen: 11.310 ppbv
RT: 4.328 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 63 Resp: 14771

Ion	Ratio	Lower	Upper
63	100		
41	75.2	58.0	87.0
62	66.7	54.7	82.1



Instrument :
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ClientSampleId :
VSTDCCC010

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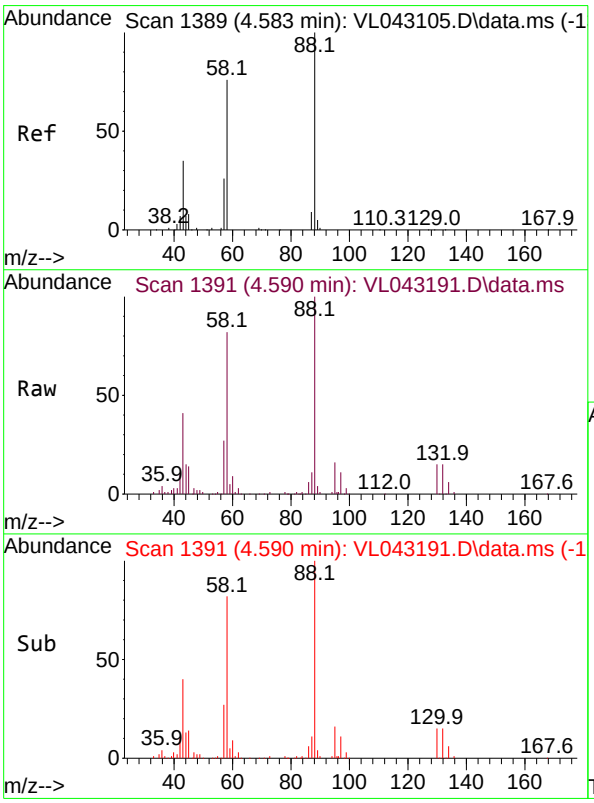
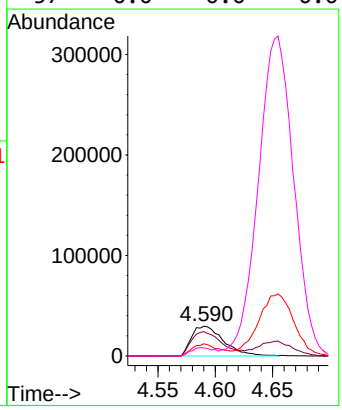
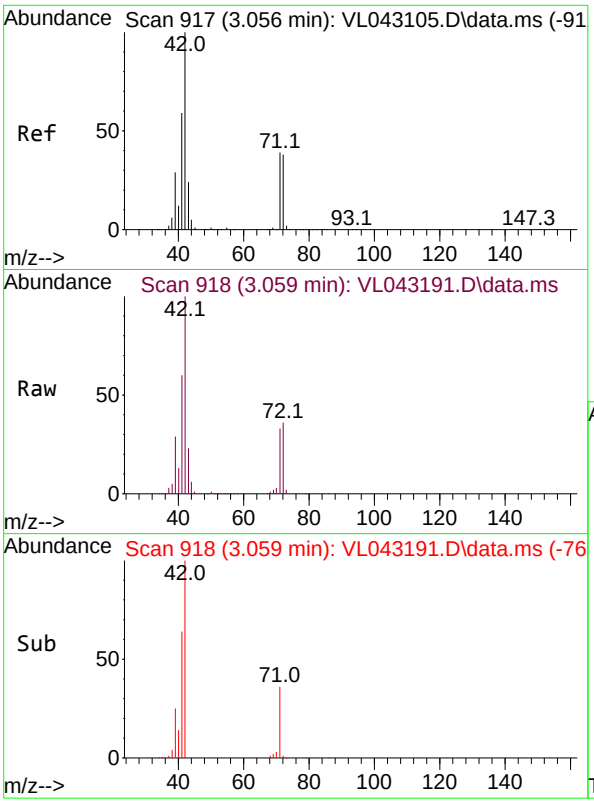


#40
1,4-Dioxane
Concen: 9.811 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 88 Resp: 57344

Ion	Ratio	Lower	Upper
88	100		
58	79.2	61.1	91.7
43	35.7	24.0	36.0
57	0.0	0.0	0.0

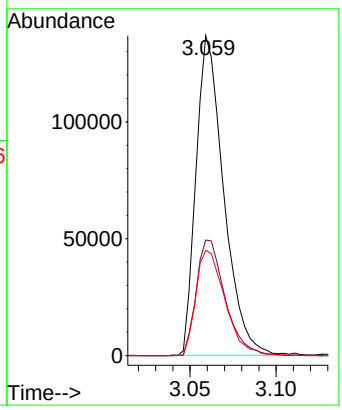




#41
Tetrahydrofuran
Concen: 10.704 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 42 Resp: 15266

Ion	Ratio	Lower	Upper
42	100		
72	37.8	31.3	46.9
71	34.7	30.4	45.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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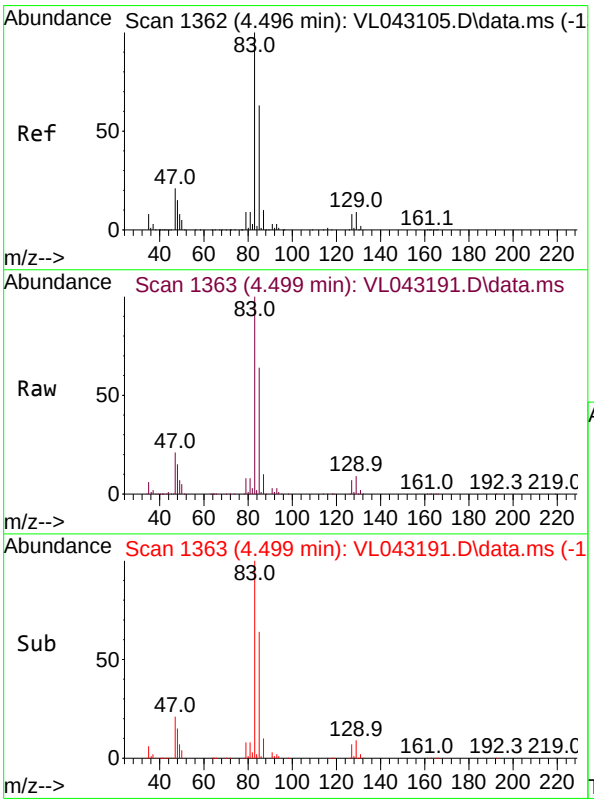
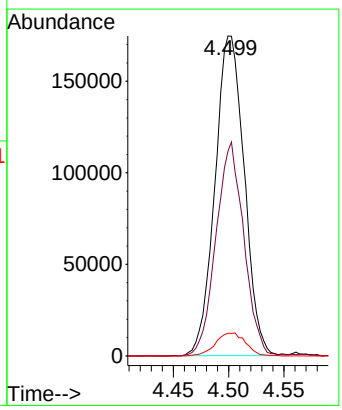
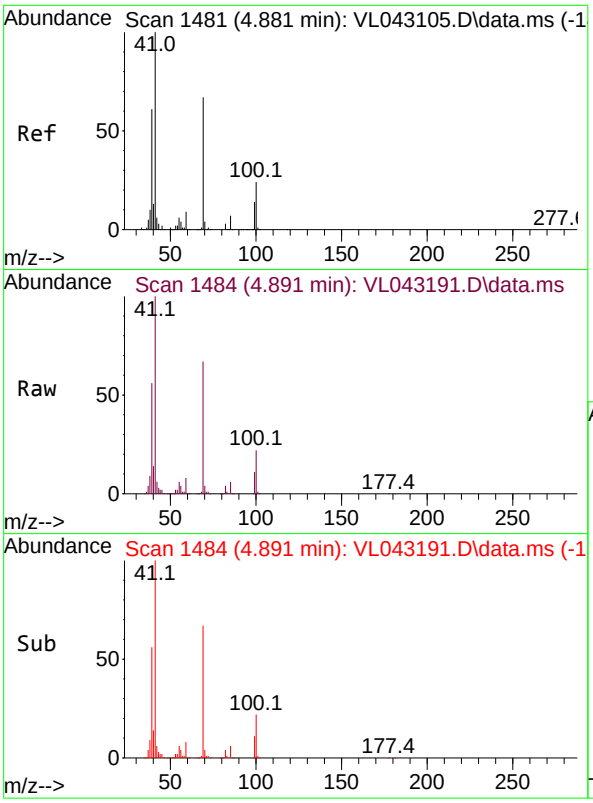


#42
Bromodichloromethane
Concen: 11.299 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 83 Resp: 321852

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.6	75.8
127	7.1	6.3	9.5

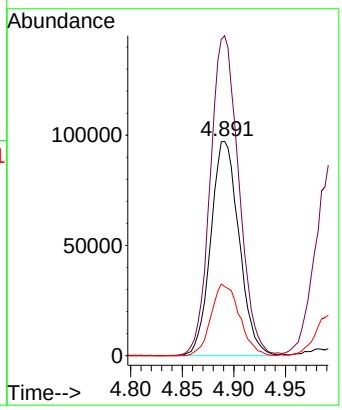




#43
Methyl Methacrylate
Concen: 10.193 ppbv
RT: 4.891 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 69 Resp: 18495

Ion	Ratio	Lower	Upper
69	100		
41	150.9	120.5	180.7
100	33.7	29.0	43.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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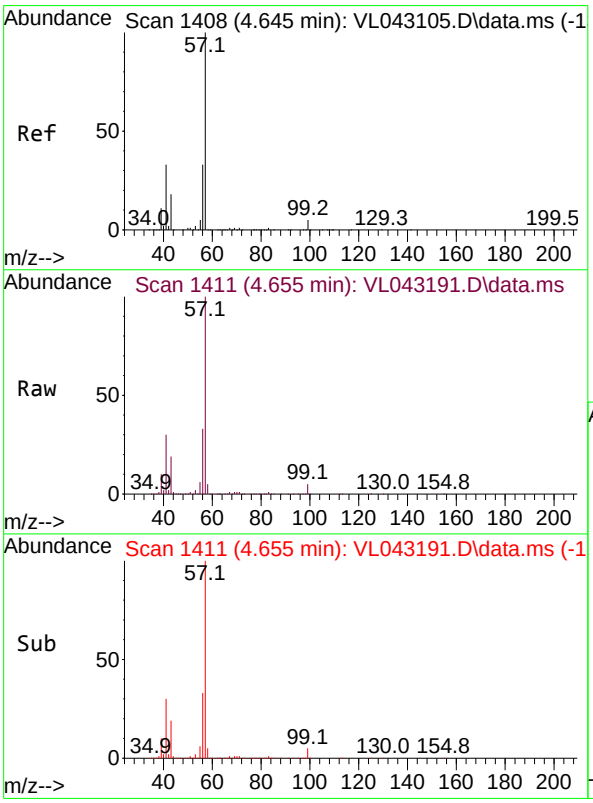
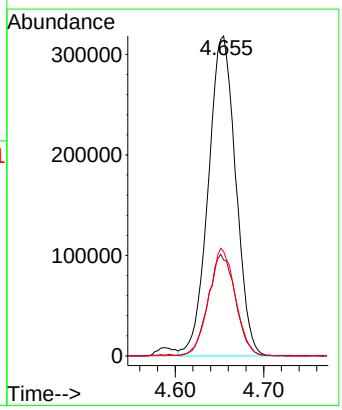
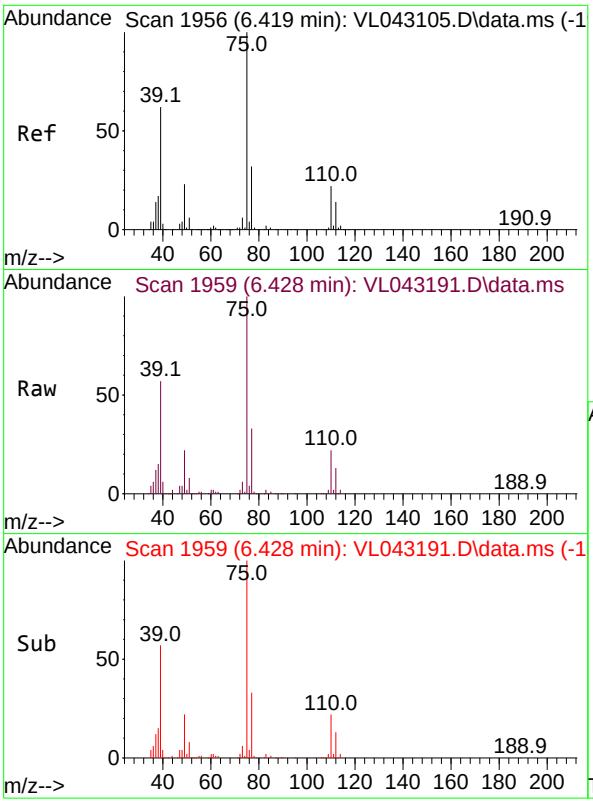


#44
2,2,4-Trimethylpentane
Concen: 11.376 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 57 Resp: 685708

Ion	Ratio	Lower	Upper
57	100		
41	32.1	26.3	39.5
56	32.6	25.9	38.9

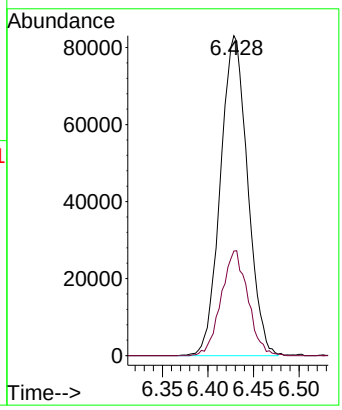




#45
t-1,3-Dichloropropene
Concen: 9.458 ppbv
RT: 6.428 min Scan# 19
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 75 Resp: 17222

Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.4	38.2



Instrument :
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ClientSampleId :
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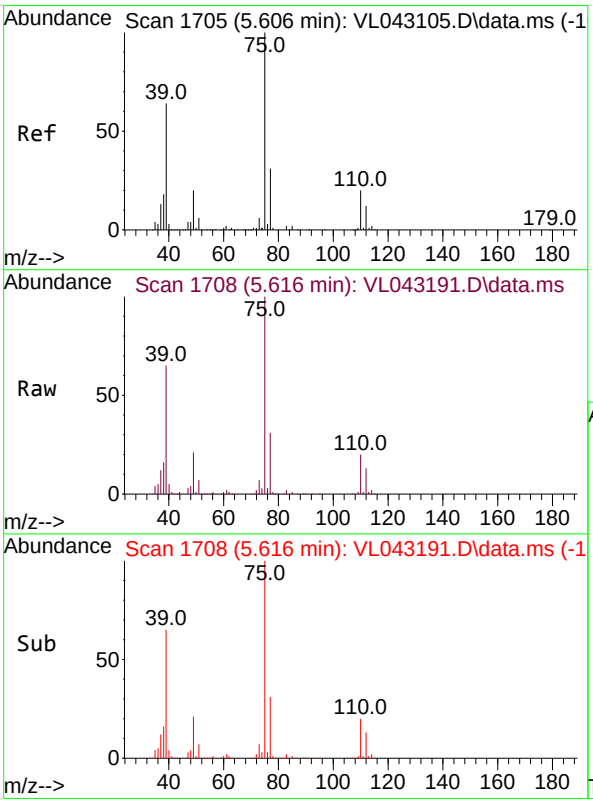
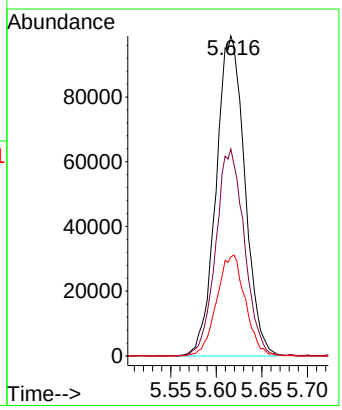
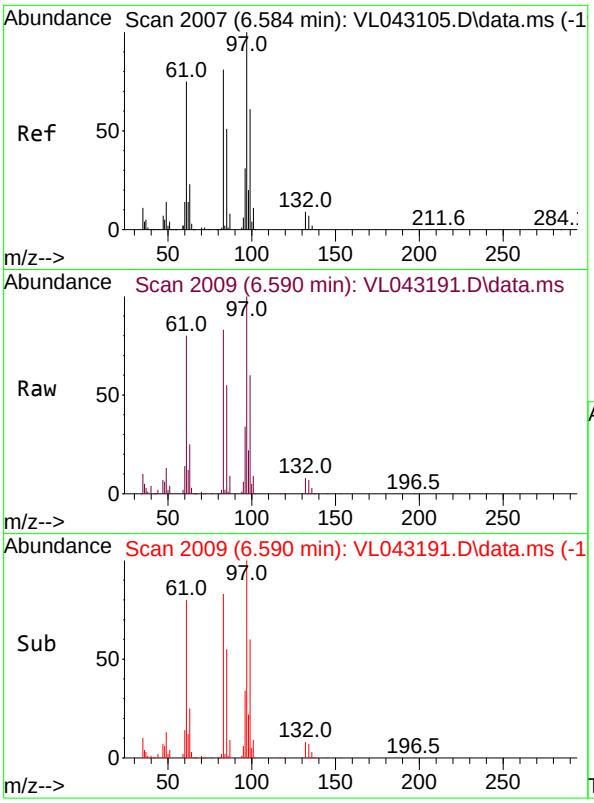


#46
cis-1,3-Dichloropropene
Concen: 9.947 ppbv
RT: 5.616 min Scan# 1708
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 75 Resp: 216380

Ion	Ratio	Lower	Upper
75	100		
39	64.6	51.0	76.6
77	31.0	25.0	37.4

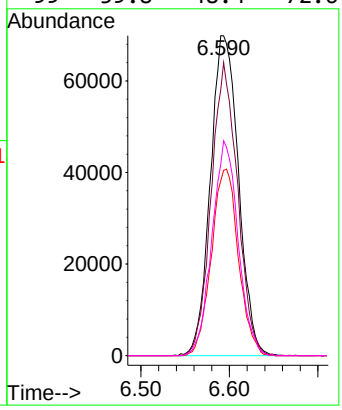




#47
1,1,2-Trichloroethane
Concen: 10.924 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 97 Resp: 15407

Ion	Ratio	Lower	Upper
97	100		
83	83.2	64.6	96.8
85	54.7	40.6	60.8
99	59.8	48.4	72.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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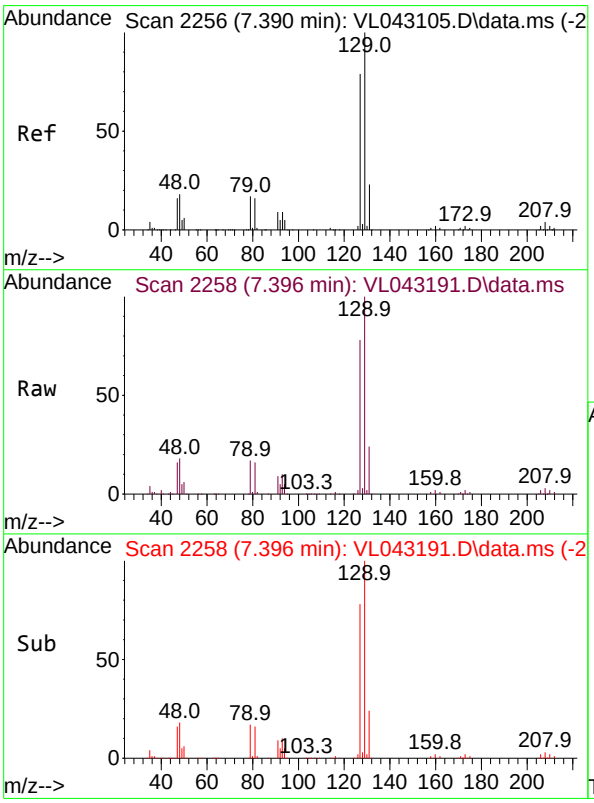
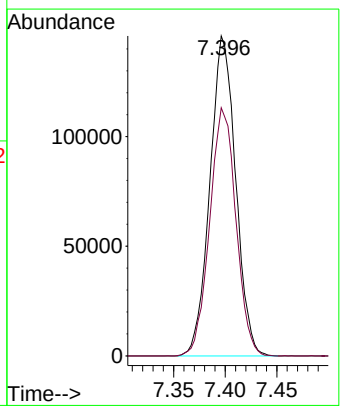
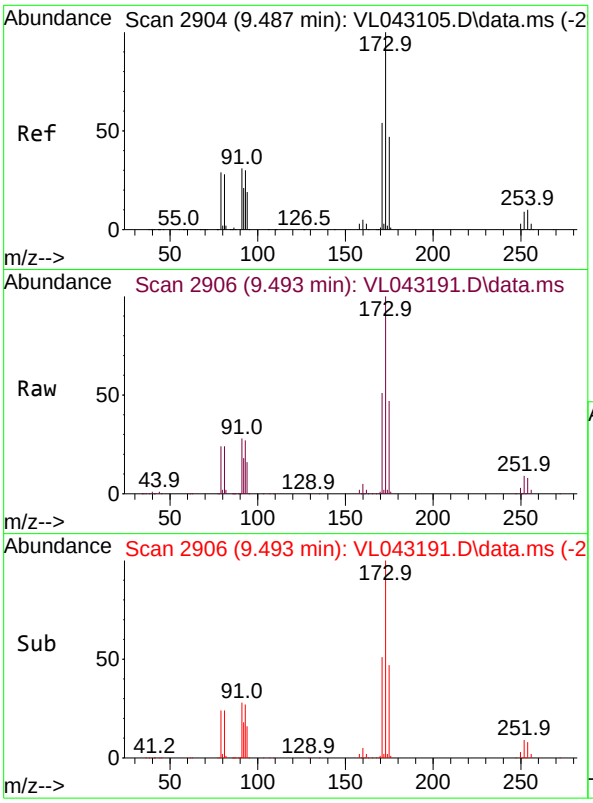


#48
Dibromochloromethane
Concen: 10.729 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:129 Resp: 253004

Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.3	117.9

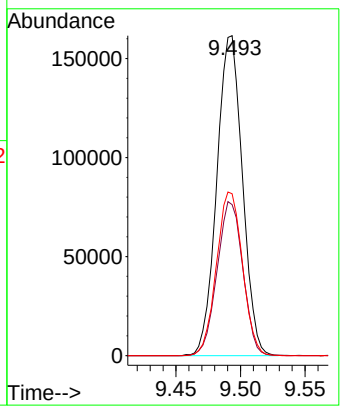




#49
Bromoform
Concen: 11.657 ppbv
RT: 9.493 min Scan# 29
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:173 Resp: 22345

Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.8	58.2
171	51.7	41.7	62.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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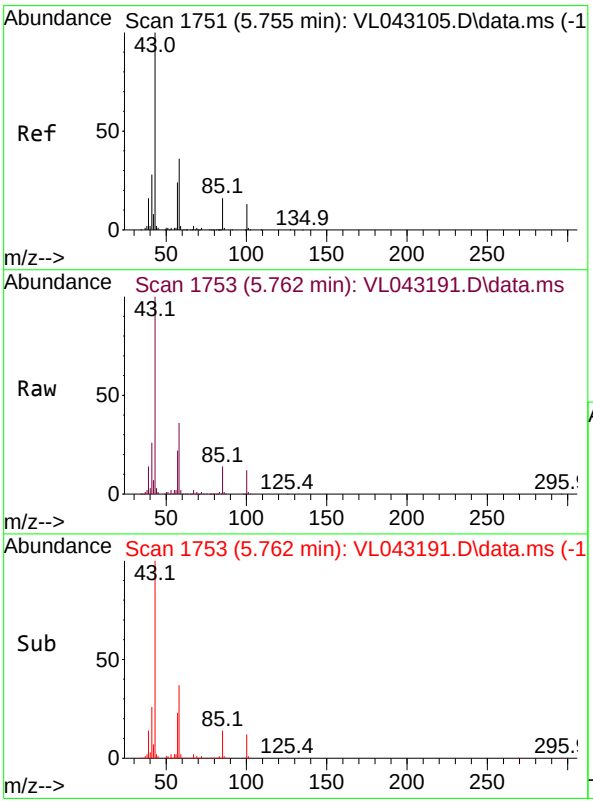
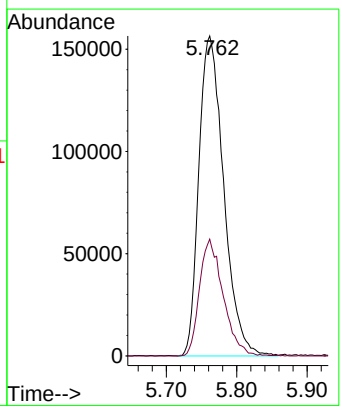
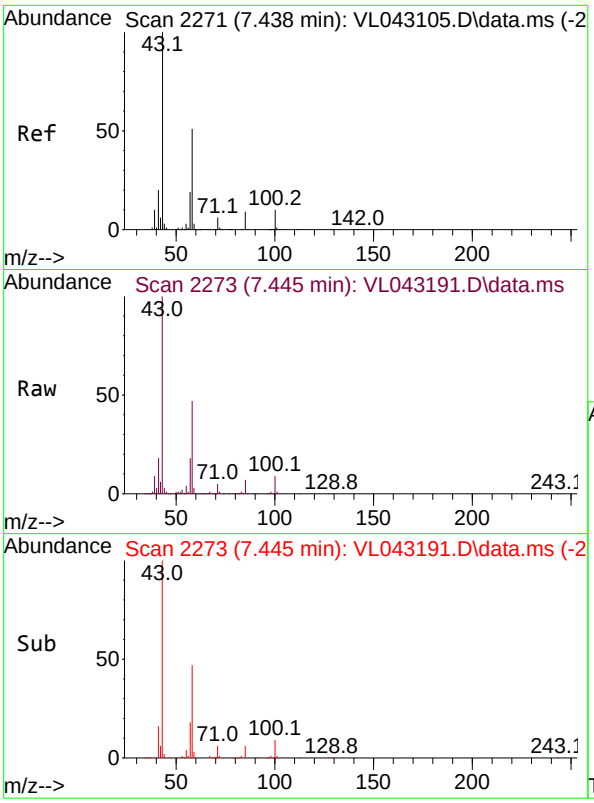


#50
4-Methyl-2-Pentanone
Concen: 10.896 ppbv
RT: 5.762 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 43 Resp: 383415

Ion	Ratio	Lower	Upper
43	100		
58	34.7	29.1	43.7

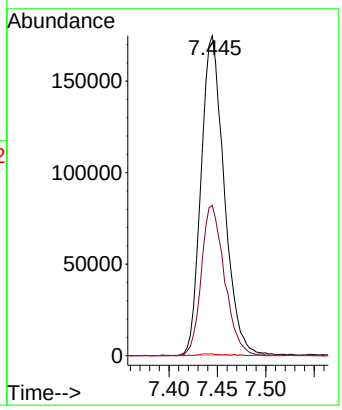




#51
2-Hexanone
Concen: 10.990 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 43 Resp: 290059

Ion	Ratio	Lower	Upper
43	100		
58	47.3	40.4	60.6
98	0.7	0.1	0.1#



Instrument :
MSVOA_L
ClientSampleId :
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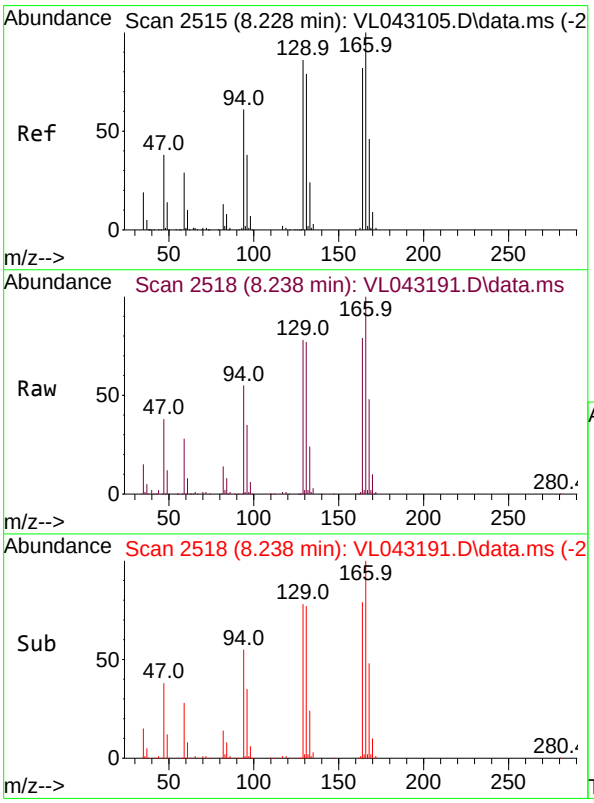
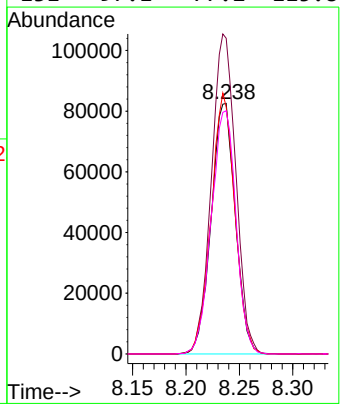
Supervised By :Mahesh Dadoda 11/18/2025

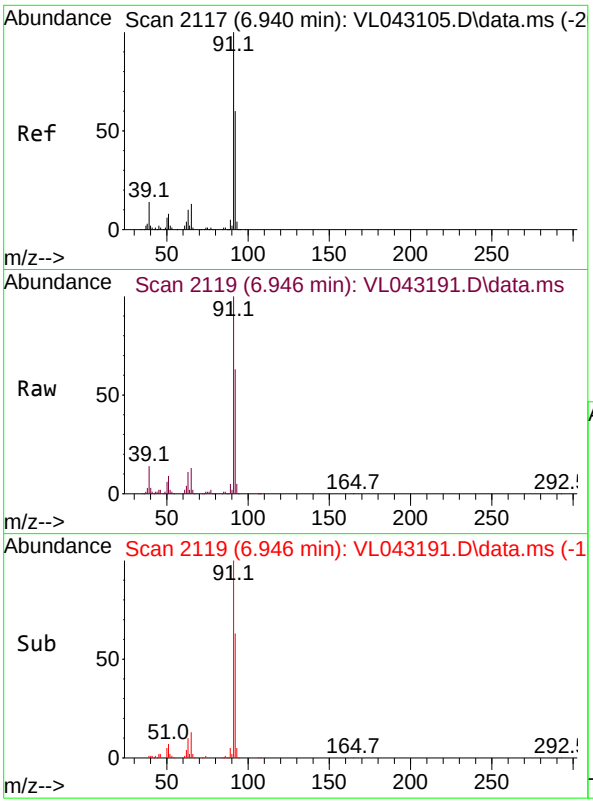


#52
Tetrachloroethene
Concen: 10.058 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:164 Resp: 129582

Ion	Ratio	Lower	Upper
164	100		
166	126.0	97.6	146.4
129	98.5	84.5	126.7
131	97.1	77.2	115.8

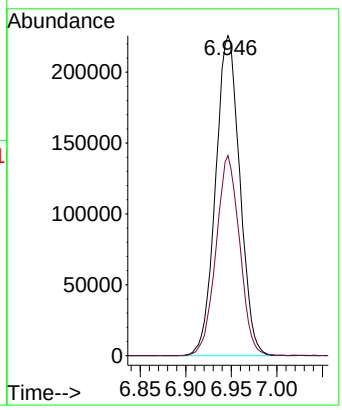




#53
Toluene
Concen: 9.842 ppbv
RT: 6.946 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 91 Resp: 41733

Ion	Ratio	Lower	Upper
91	100		
92	60.9	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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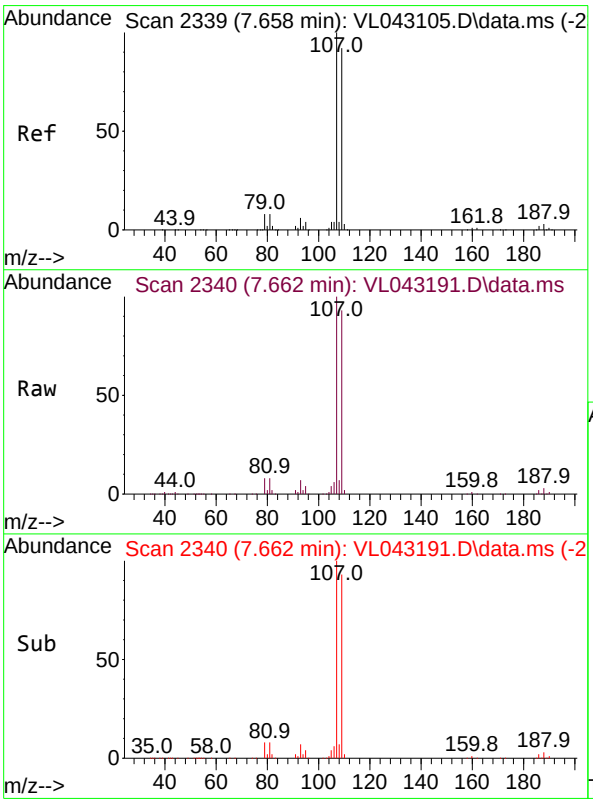
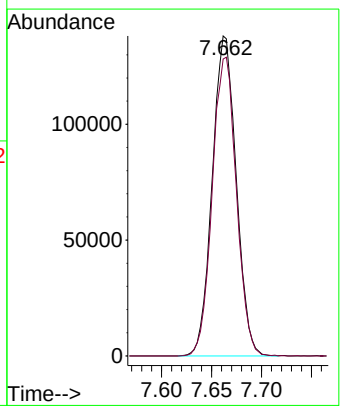
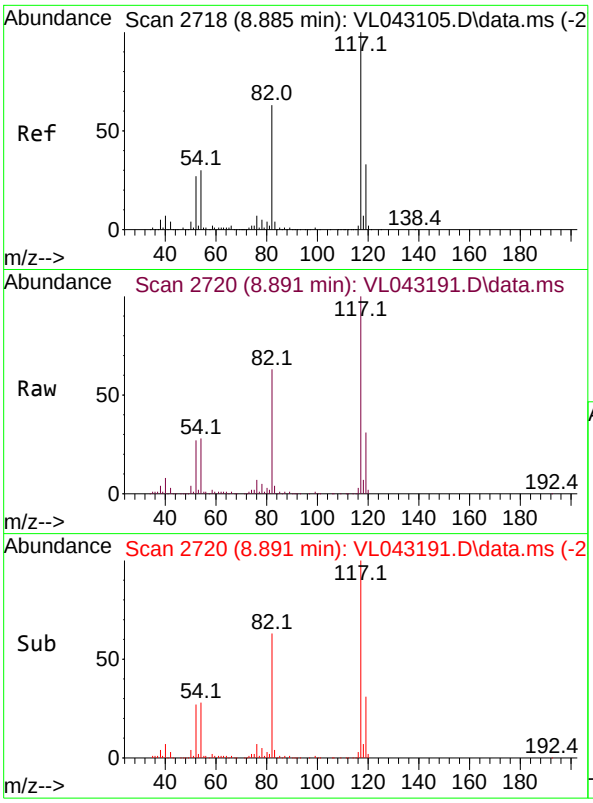


#54
1,2-Dibromoethane
Concen: 10.434 ppbv
RT: 7.662 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:107 Resp: 230500

Ion	Ratio	Lower	Upper
107	100		
109	92.8	73.4	110.2

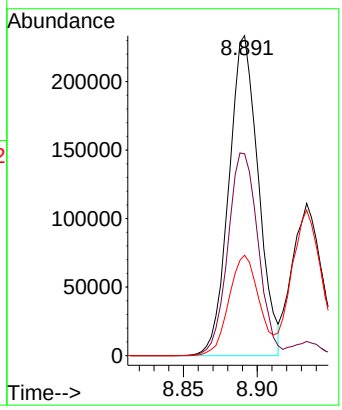




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:117 Resp: 32465

Ion	Ratio	Lower	Upper
117	100		
82	69.3	53.8	80.8
119	33.1	25.4	38.0



Instrument :
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ClientSampleId :
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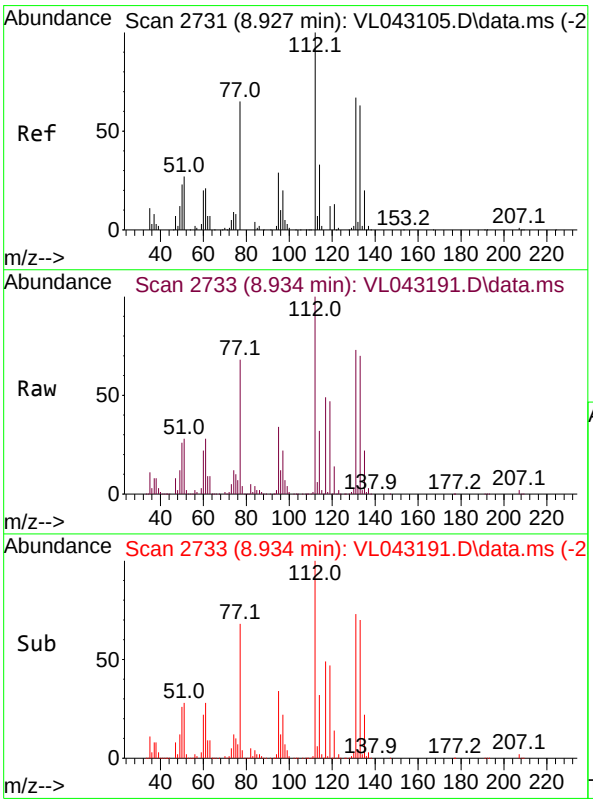
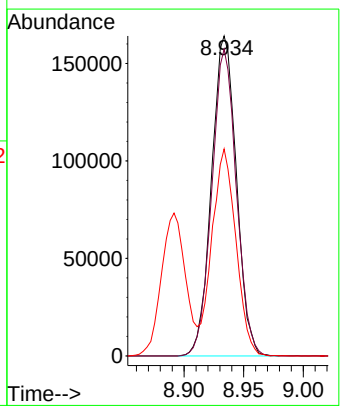
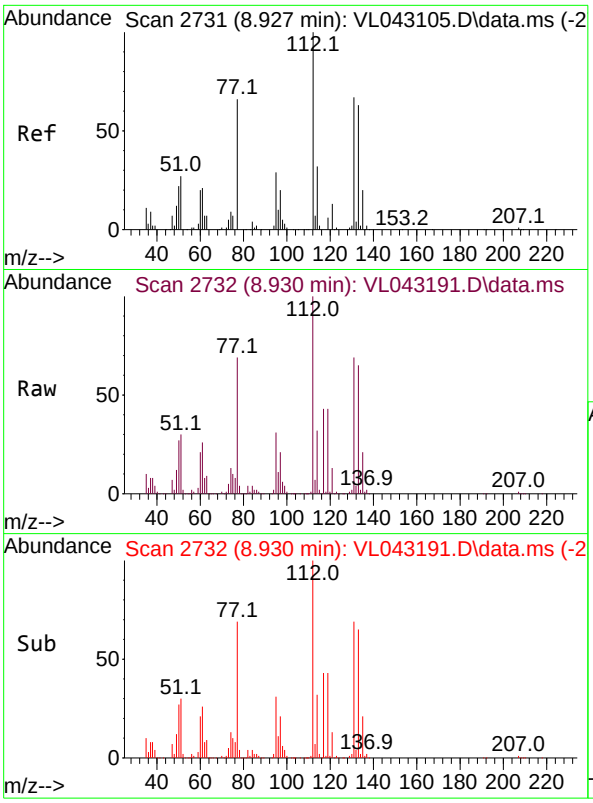


#56
1,1,1,2-Tetrachloroethane
Concen: 11.648 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:131 Resp: 238374

Ion	Ratio	Lower	Upper
131	100		
133	94.9	75.7	113.5
119	63.8	50.6	76.0

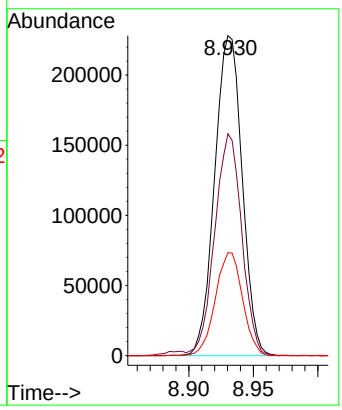




#57
Chlorobenzene
Concen: 11.148 ppbv
RT: 8.930 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:112 Resp: 338588

Ion	Ratio	Lower	Upper
112	100		
77	69.2	53.3	79.9
114	32.2	29.3	35.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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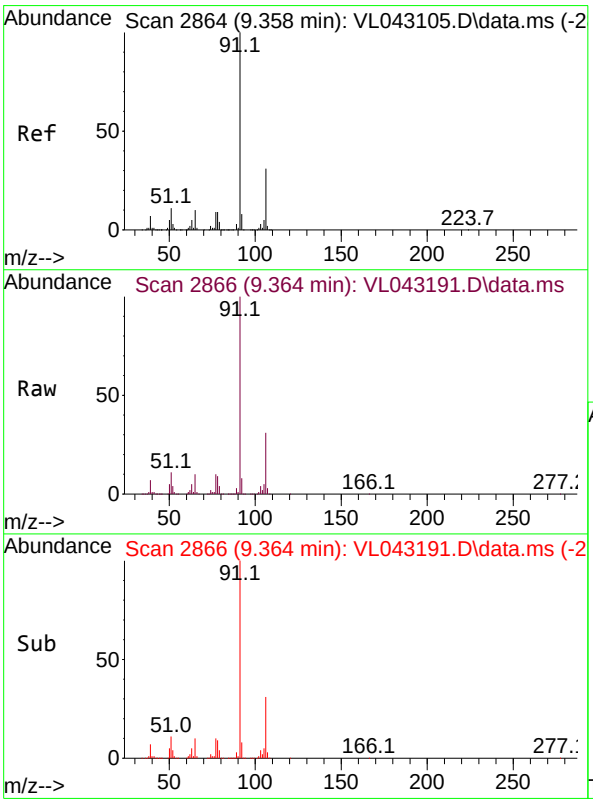
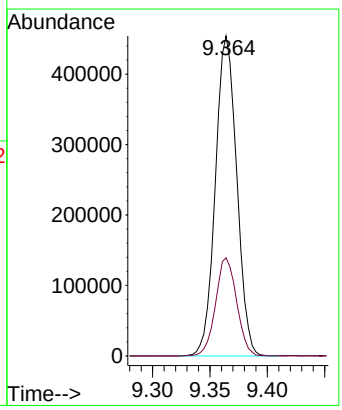
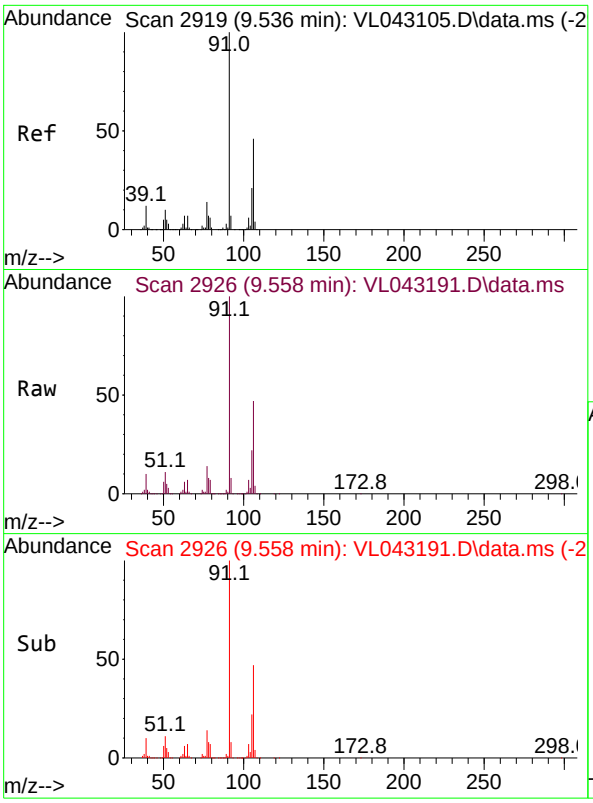


#58
Ethyl Benzene
Concen: 10.543 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 91 Resp: 587423

Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.8	37.2





#59
m/p-Xylene
Concen: 22.079 ppbv m
RT: 9.558 min Scan# 29
Delta R.T. 0.023 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 91 Resp: 98121

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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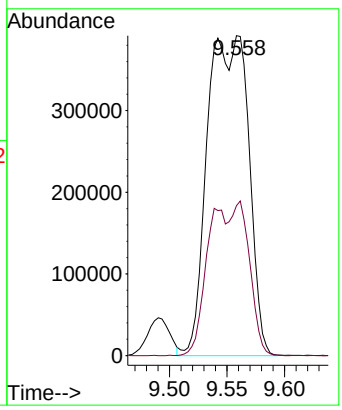
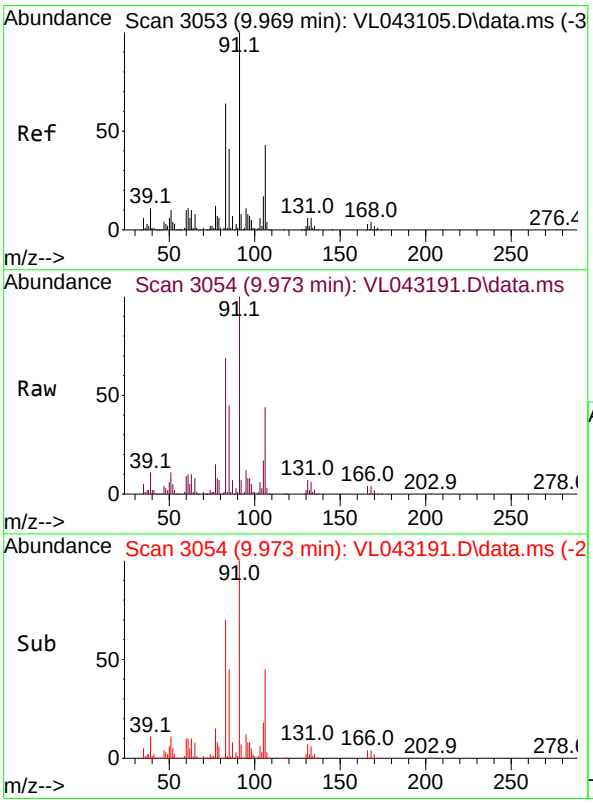
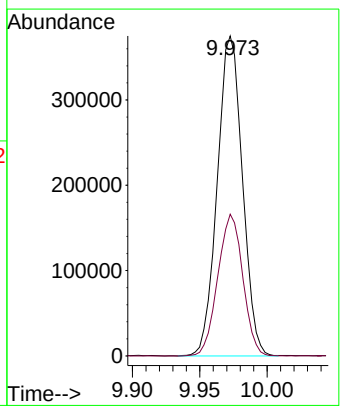


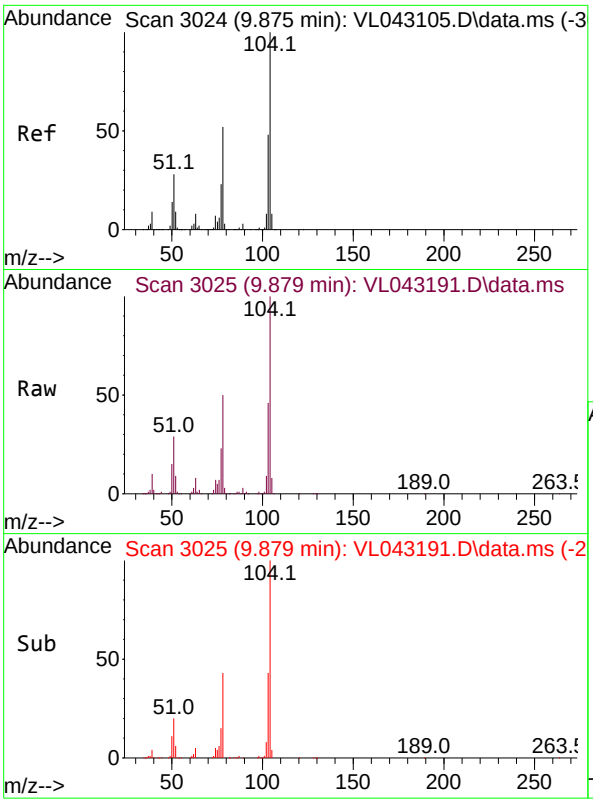


#60
o-Xylene
Concen: 11.090 ppbv
RT: 9.973 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 91 Resp: 486760

Ion	Ratio	Lower	Upper
91	100		
106	44.0	21.9	65.8

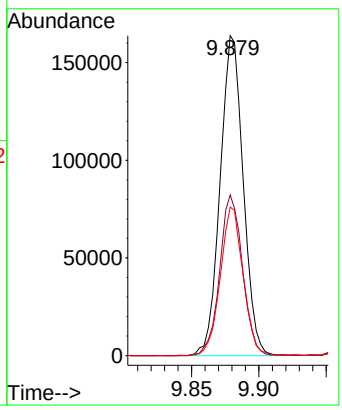




#61
Styrene
Concen: 9.851 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:104 Resp: 19518

Ion	Ratio	Lower	Upper
104	100		
78	49.6	40.2	60.2
103	46.0	36.9	55.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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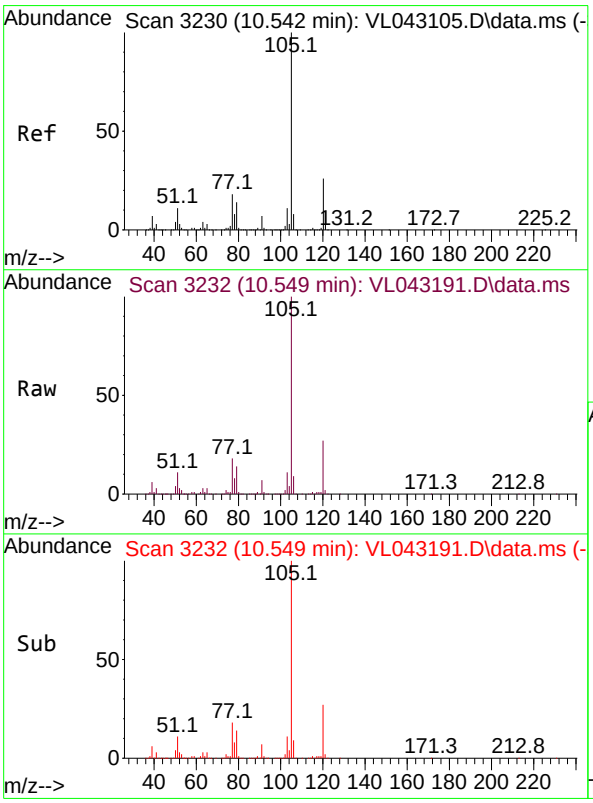
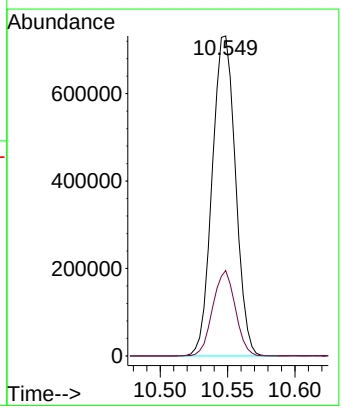
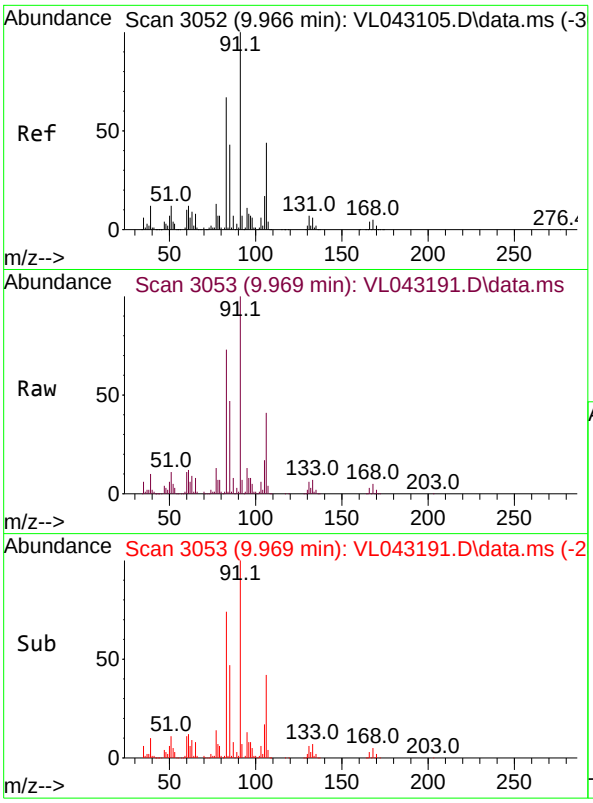


#62
Isopropylbenzene
Concen: 11.111 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:105 Resp: 881218

Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.2	30.4

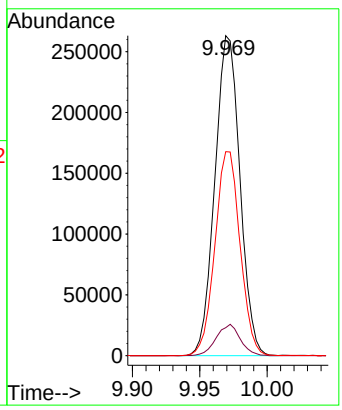




#63
1,1,2,2-Tetrachloroethane
Concen: 11.592 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 83 Resp: 34069

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.8	14.3
85	63.9	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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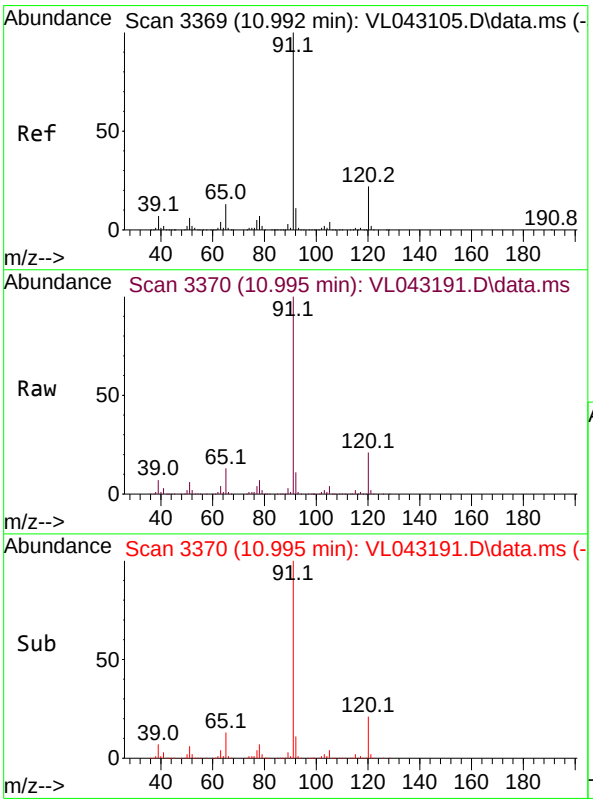
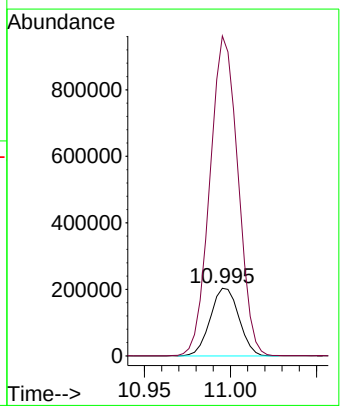
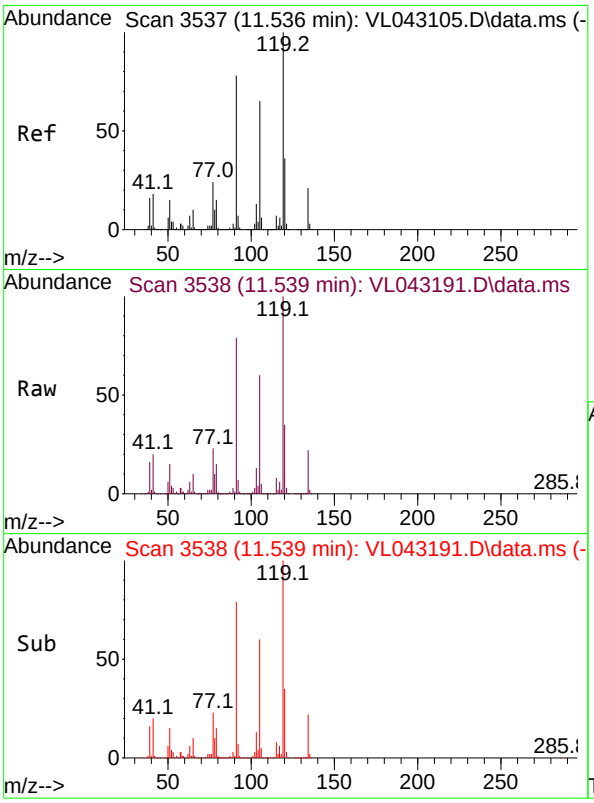


#64
n-propylbenzene
Concen: 11.181 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:120 Resp: 234766

Ion	Ratio	Lower	Upper
120	100		
91	466.0	361.6	542.4

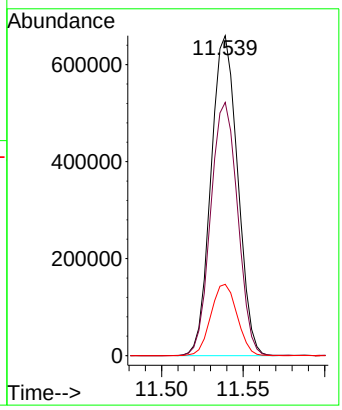




#65
tert-Butylbenzene
Concen: 10.727 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:119 Resp: 75134

Ion	Ratio	Lower	Upper
119	100		
91	80.0	63.4	95.0
134	21.9	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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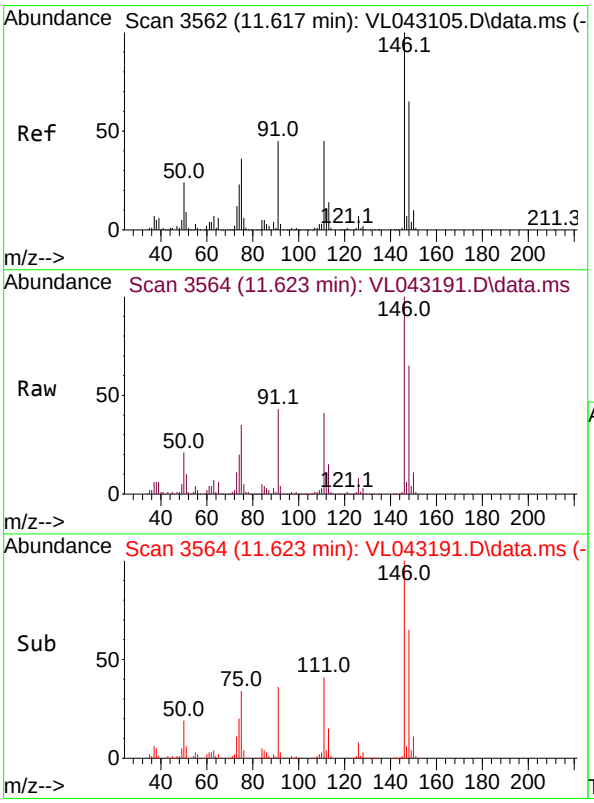
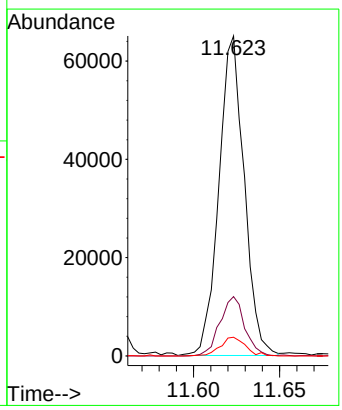
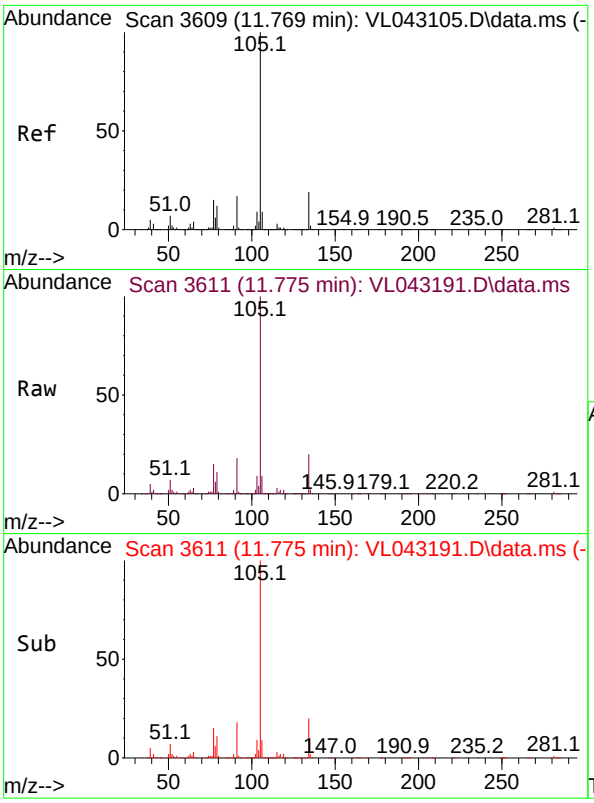


#66
Benzyl Chloride
Concen: 8.537 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 91 Resp: 66547

Ion	Ratio	Lower	Upper
91	100		
126	18.3	14.6	22.0
128	5.8	4.6	6.8

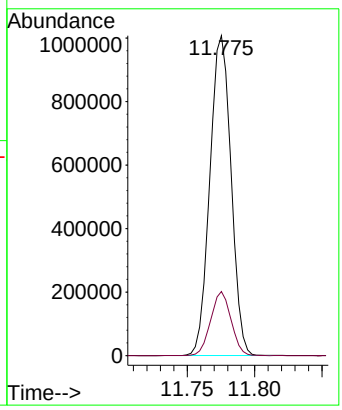




#67
sec-Butylbenzene
Concen: 11.092 ppbv
RT: 11.775 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:105 Resp: 110257

Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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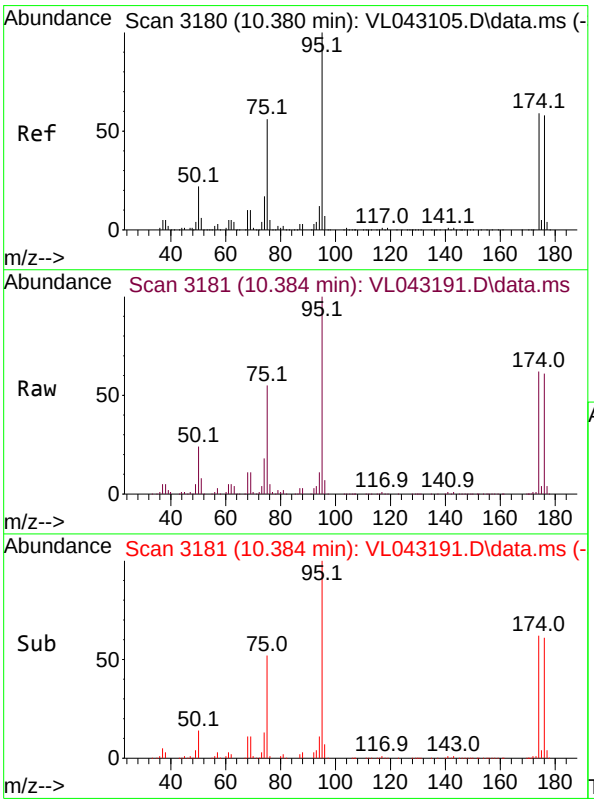
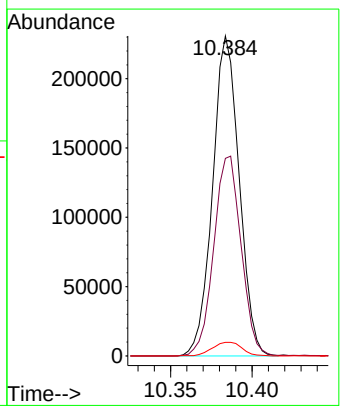
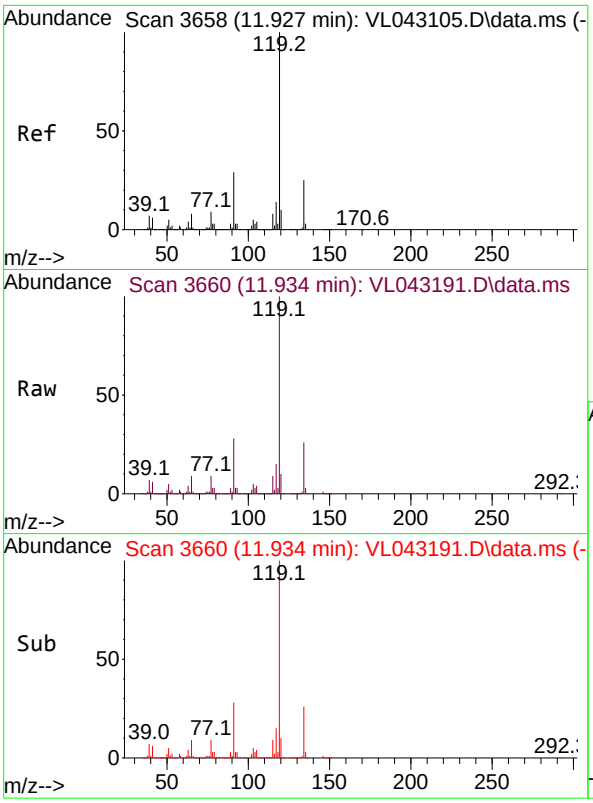


#68
1-Bromo-4-Fluorobenzene
Concen: 10.406 ppbv
RT: 10.384 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 95 Resp: 262602

Ion	Ratio	Lower	Upper
95	100		
174	64.5	48.3	72.5
175	4.8	3.8	5.8

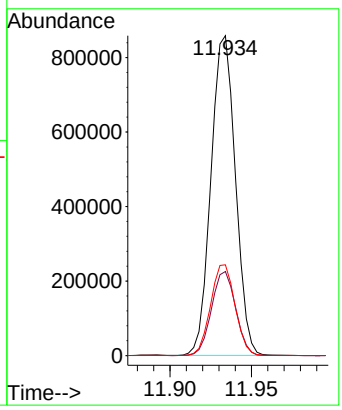




#69
p-Isopropyltoluene
Concen: 10.634 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:119 Resp: 89823

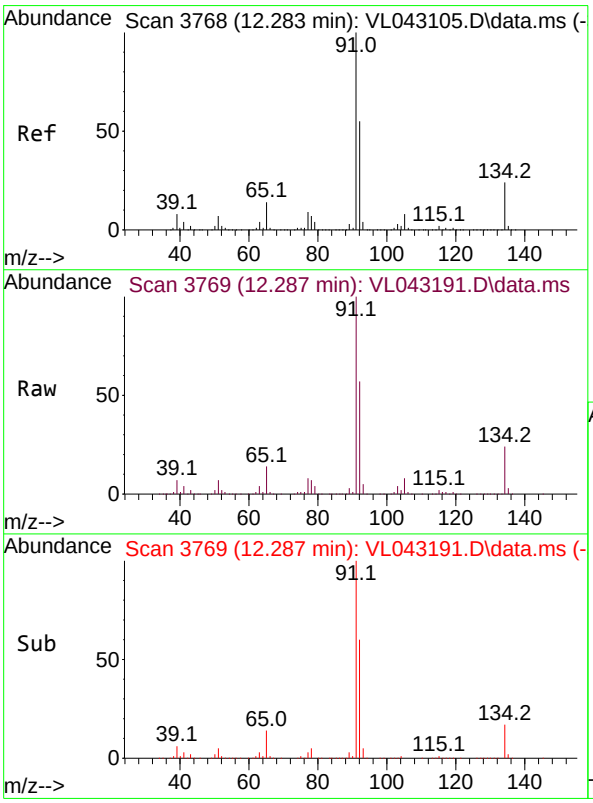
Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.3	30.5
91	28.5	22.6	33.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

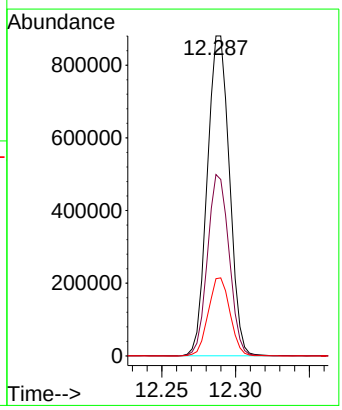
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

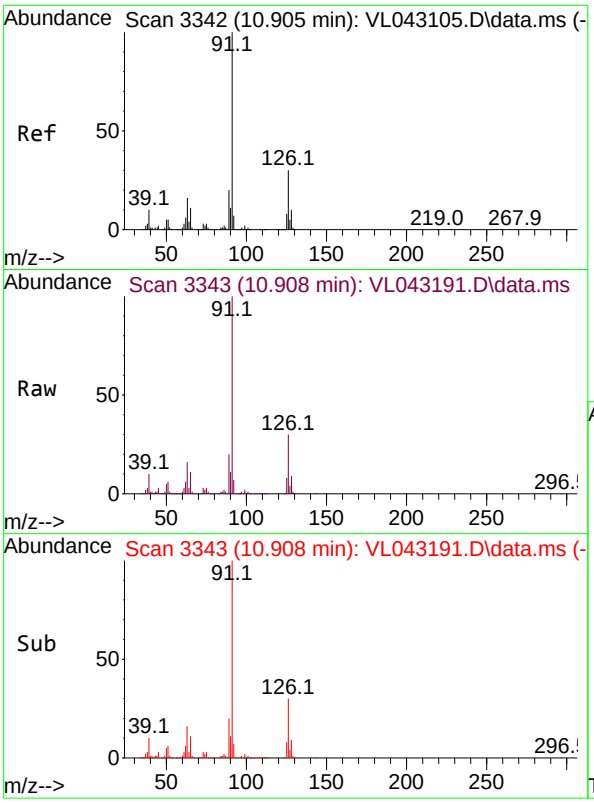


#70
n-Butylbenzene
Concen: 11.043 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 91 Resp: 919213

Ion	Ratio	Lower	Upper
91	100		
92	55.4	44.5	66.7
134	23.9	19.3	28.9

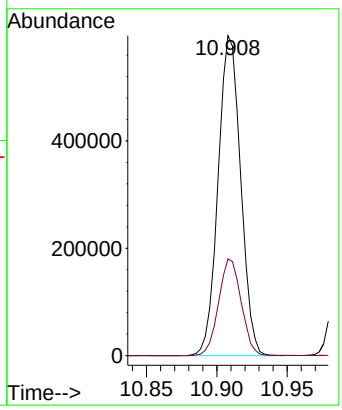




#71
2-Chlorotoluene
Concen: 11.000 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 91 Resp: 66543

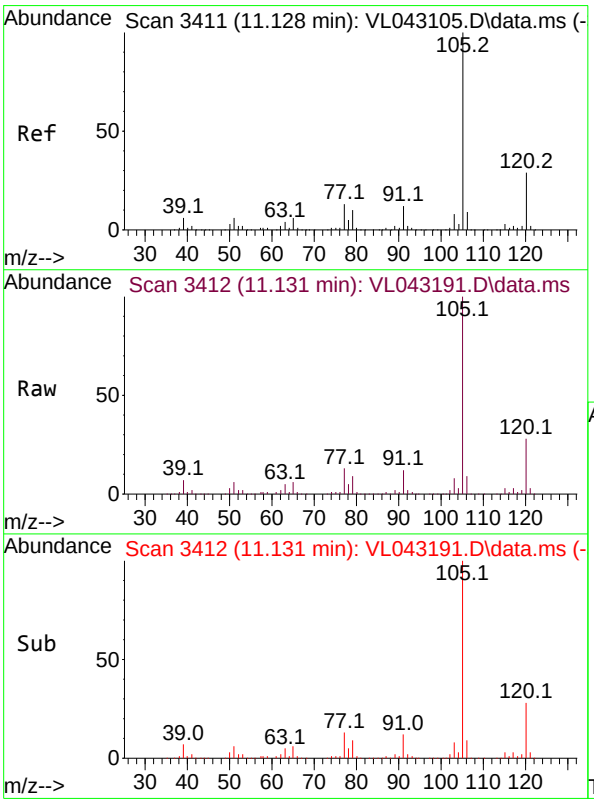
Ion	Ratio	Lower	Upper
91	100		
126	30.2	12.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

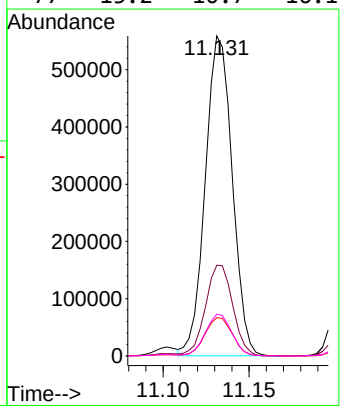
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

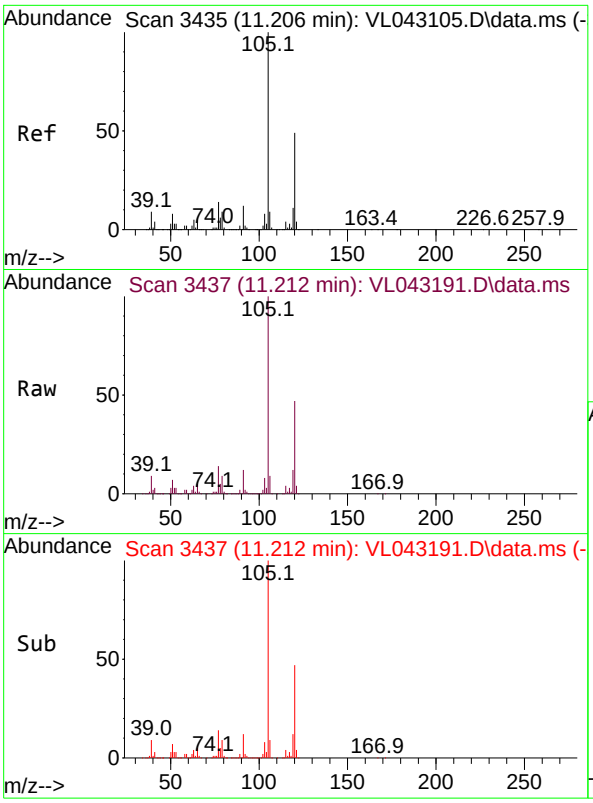


#72
4-Ethyltoluene
Concen: 11.307 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:105 Resp: 610233

Ion	Ratio	Lower	Upper
105	100		
120	29.3	24.2	36.4
91	12.6	10.0	15.0
77	13.2	10.7	16.1

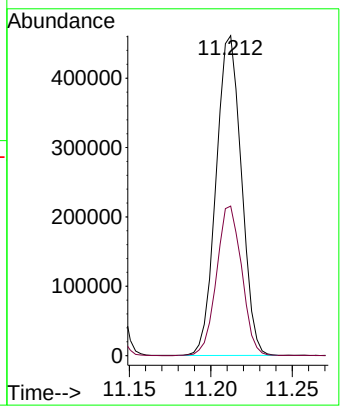




#73
1,3,5-Trimethylbenzene
Concen: 11.207 ppbv
RT: 11.212 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:105 Resp: 49883

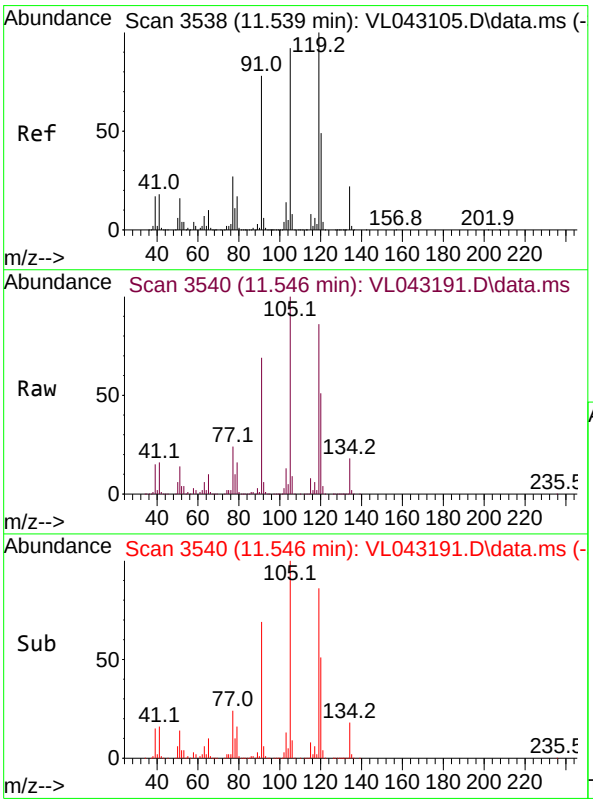
Ion	Ratio	Lower	Upper
105	100		
120	46.7	39.0	58.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

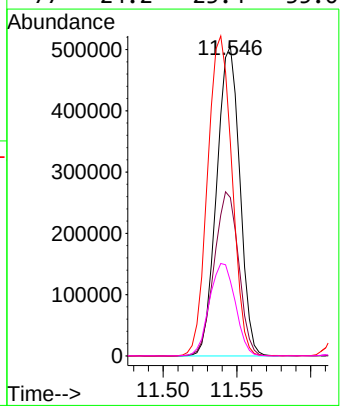
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

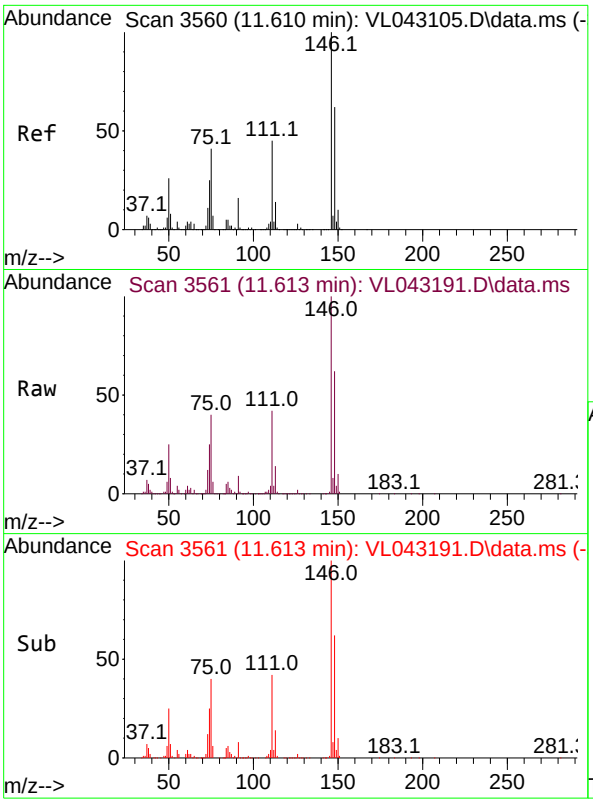


#74
1,2,4-Trimethylbenzene
Concen: 11.044 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:105 Resp: 550086

Ion	Ratio	Lower	Upper
105	100		
120	51.1	42.8	64.2
91	68.8	68.3	102.5
77	24.2	23.4	35.0

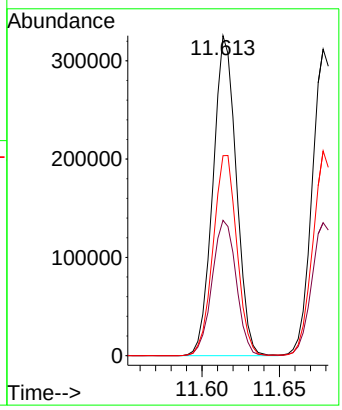




#75
1,3-Dichlorobenzene
Concen: 11.801 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:146 Resp: 34092

Ion	Ratio	Lower	Upper
146	100		
111	43.7	23.3	69.9
148	63.7	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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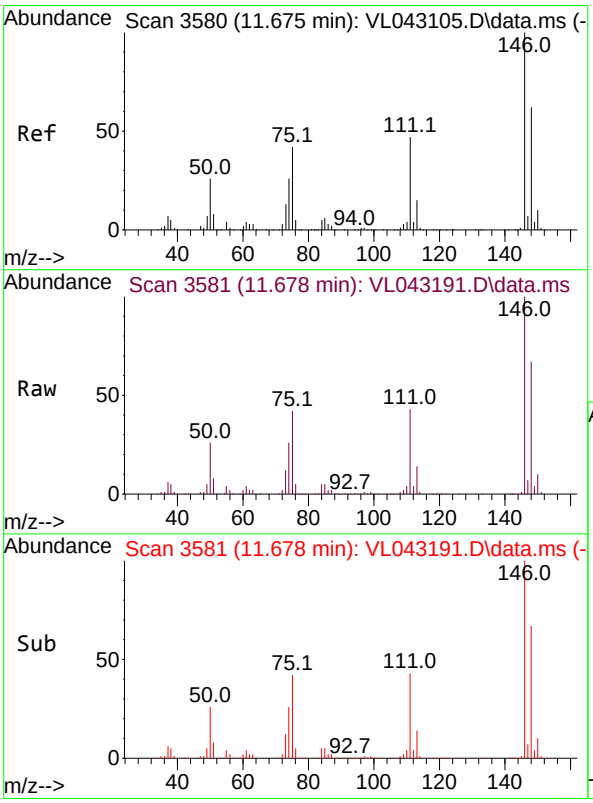
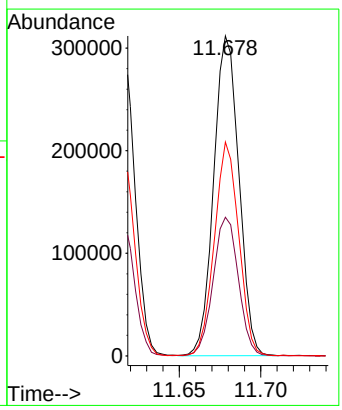
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

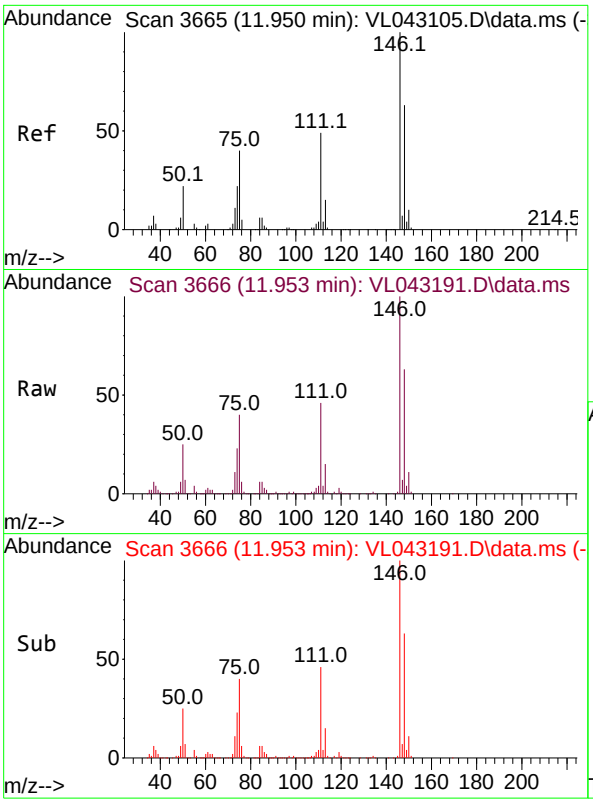


#76
1,4-Dichlorobenzene
Concen: 11.518 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:146 Resp: 335522

Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.4	67.0
148	64.9	31.6	94.7

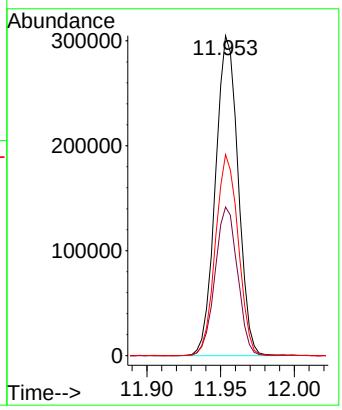




#77
1,2-Dichlorobenzene
Concen: 11.620 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:146 Resp: 32475

Ion	Ratio	Lower	Upper
146	100		
111	46.3	24.0	72.0
148	63.4	31.1	93.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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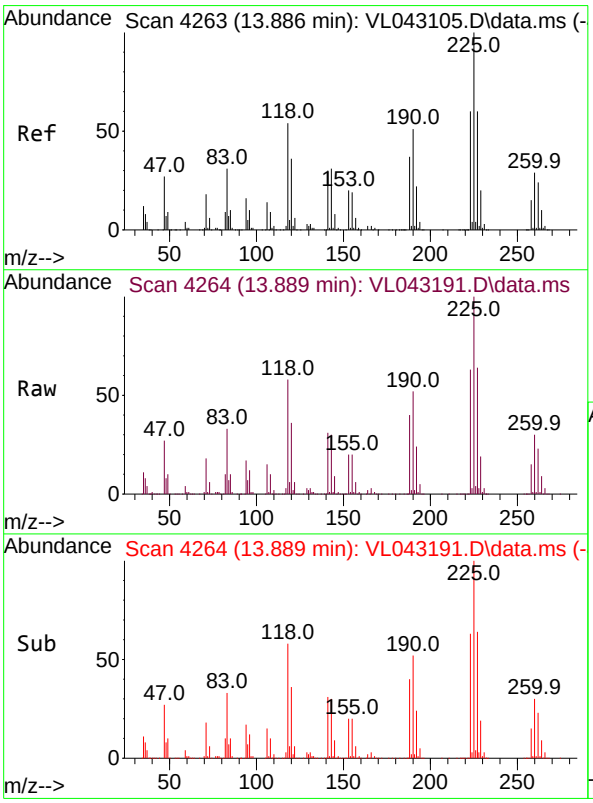
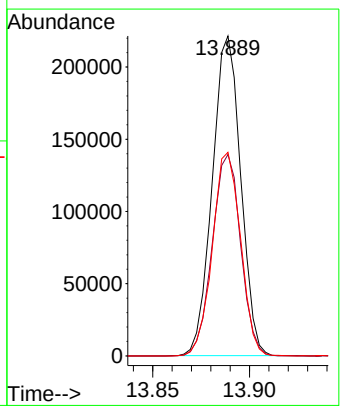
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

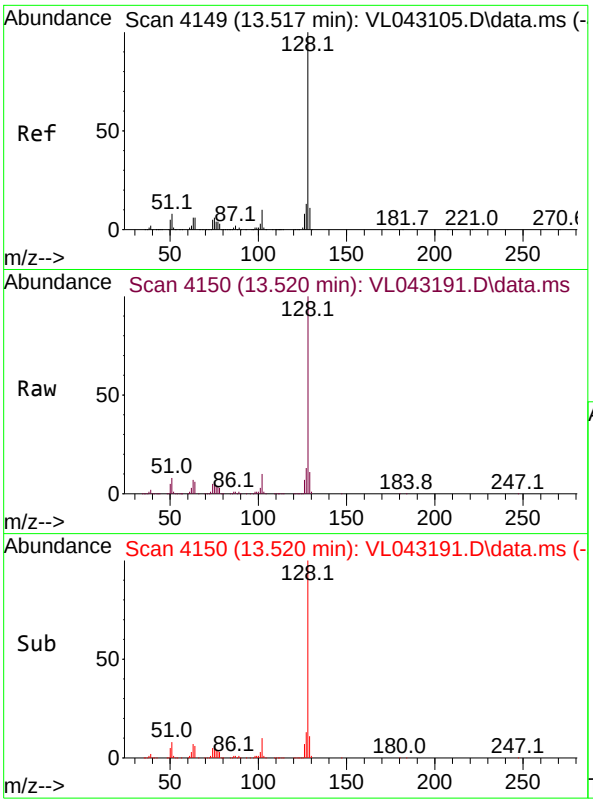


#78
Hexachloro-1,3-Butadiene
Concen: 10.443 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:225 Resp: 225968

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.4
227	63.1	49.6	74.4

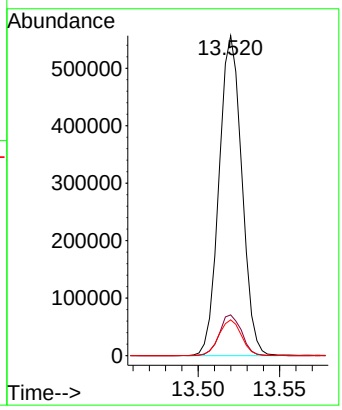




#79
Naphthalene
Concen: 10.430 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:128 Resp: 54302

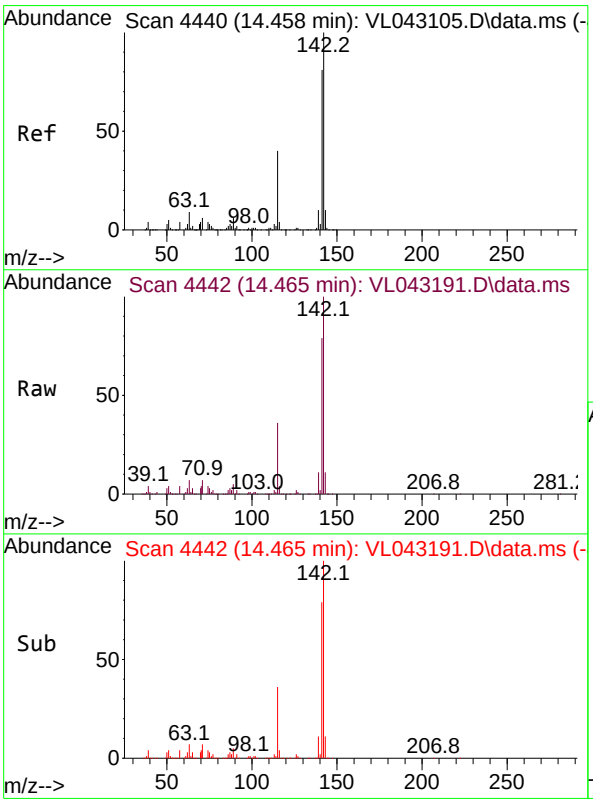
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	11.2	9.1	13.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

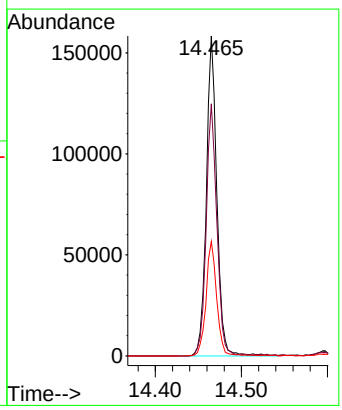
Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

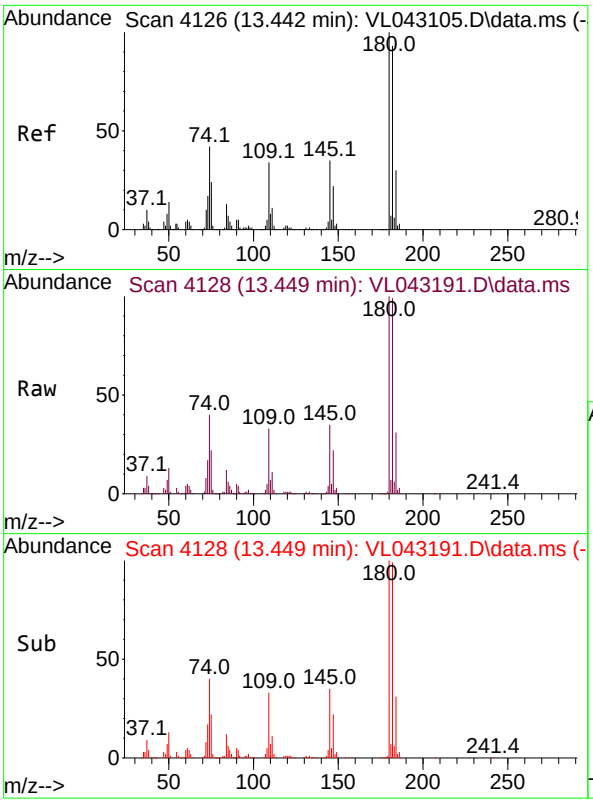


#80
Naphthalene,2-methyl-
Concen: 9.870 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:142 Resp: 133878

Ion	Ratio	Lower	Upper
142	100		
141	81.5	64.6	97.0
115	36.8	30.2	45.4

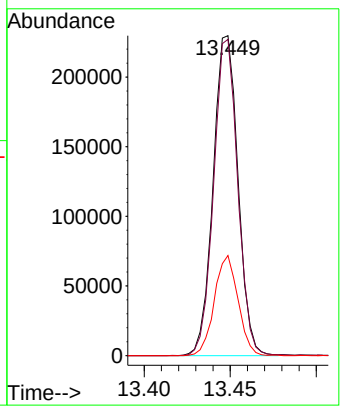




#81
1,2,4-Trichlorobenzene
Concen: 10.671 ppbv
RT: 13.449 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:180 Resp: 23058

Ion	Ratio	Lower	Upper
180	100		
182	95.9	75.5	113.3
184	29.9	23.9	35.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/18/2025
Supervised By :Mahesh Dadoda 11/18/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043191.D
Acq On : 13 Nov 2025 09:01
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 14 04:35:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 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	136	0.00
2	T	Dichlorodifluoromethane	1.422	1.319	7.2	141	0.00
3		Chlorodifluoromethane	1.538	1.464	4.8	138	0.00
4		Chloromethane	0.563	0.466	17.2	127	0.00
5	T	Vinyl Chloride	0.552	0.462	16.3	131	0.00
6	T	Bromomethane	0.303	0.274	9.6	143	0.00
7		Chloroethane	0.226	0.184	18.6	131	0.00
8	T	Dichlorotetrafluoroethane	1.149	1.056	8.1	138	0.00
9	T	Propene	0.682	0.560	17.9	116	0.00
10	T	Heptane	1.964	1.814	7.6	137	0.00
11	T	Trichlorofluoromethane	1.391	1.439	-3.5	158#	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.120	1.109	1.0	155#	0.00
13		Ethanol	0.252	0.161	36.1#	114	0.00
14	T	Bromoethene	0.416	0.394	5.3	145	0.00
15	T	Acetone	1.348	1.108	17.8	139	0.00
16	T	1,3-Butadiene	0.642	0.503	21.7	124	0.00
17		tert-Butyl alcohol	1.850	1.497	19.1	121	0.00
18	T	1,1-Dichloroethene	0.488	0.477	2.3	149	0.00
19	T	Isopropyl Alcohol	0.839	0.633	24.6	119	0.00
20	T	Methylene Chloride	0.533	0.432	18.9	145	0.00
21	T	Allyl Chloride	0.993	0.839	15.5	126	0.00
22	T	trans-1,2-Dichloroethene	0.583	0.545	6.5	145	0.00
23	T	Vinyl Acetate	1.974	2.037	-3.2	171#	0.00
24	T	1,1-Dichloroethane	1.127	1.049	6.9	139	0.00
25	T	Ethyl Acetate	3.342	3.236	3.2	141	0.00
26	T	Hexane	1.540	1.468	4.7	142	0.00
27	T	Carbon Disulfide	1.411	1.357	3.8	141	0.00
28	T	Methyl tert-Butyl Ether	0.701	0.594	15.3	138	0.00
29	T	Chloroform	2.232	2.170	2.8	146	0.00
30	T	Cyclohexane	1.344	1.141	15.1	128	0.00
31	T	cis-1,2-Dichloroethene	1.471	1.360	7.5	132	0.00
32	T	1,1,1-Trichloroethane	2.324	2.065	11.1	132	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	111	0.00
34	T	2-Butanone	0.672	0.803	-19.5	147	0.00
35	T	Carbon Tetrachloride	0.719	0.796	-10.7	136	0.00
36	T	Benzene	0.942	1.040	-10.4	133	0.00
37	T	1,2-Dichloroethane	0.543	0.600	-10.5	137	0.00
38	T	Trichloroethene	0.393	0.378	3.8	122	0.00
39	T	1,2-Dichloropropane	0.344	0.389	-13.1	136	0.01
40	T	1,4-Dioxane	0.154	0.151	1.9	119	0.00
41	T	Tetrahydrofuran	0.376	0.402	-6.9	130	0.00
42	T	Bromodichloromethane	0.751	0.848	-12.9	135	0.00
43		Methyl Methacrylate	0.478	0.488	-2.1	120	0.00
44	T	2,2,4-Trimethylpentane	1.589	1.808	-13.8	137	0.00
45	T	t-1,3-Dichloropropene	0.480	0.454	5.4	109	0.00
46	T	cis-1,3-Dichloropropene	0.573	0.570	0.5	116	0.00
47	T	1,1,2-Trichloroethane	0.372	0.406	-9.1	133	0.00
48	T	Dibromochloromethane	0.622	0.667	-7.2	126	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043191.D
Acq On : 13 Nov 2025 09:01
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 14 04:35:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 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	0.505	0.589	-16.6	134	0.00
50	T	4-Methyl-2-Pentanone	0.928	1.011	-8.9	128	0.00
51	T	2-Hexanone	0.696	0.765	-9.9	123	0.00
52	T	Tetrachloroethene	0.340	0.342	-0.6	121	0.00
53	T	Toluene	1.118	1.100	1.6	118	0.00
54	T	1,2-Dibromoethane	0.582	0.608	-4.5	127	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
56		1,1,1,2-Tetrachloroethane	0.630	0.734	-16.5	131	0.00
57	T	Chlorobenzene	0.936	1.043	-11.4	129	0.00
58	T	Ethyl Benzene	1.716	1.809	-5.4	119	0.00
59	T	m/p-Xylene	1.369	1.511	-10.4	128	0.02
60	T	o-Xylene	1.352	1.499	-10.9	129	0.00
61	T	Styrene	0.610	0.601	1.5	109	0.00
62		Isopropylbenzene	2.443	2.714	-11.1	127	0.00
63	T	1,1,2,2-Tetrachloroethane	0.905	1.049	-15.9	142	0.00
64		n-propylbenzene	0.647	0.723	-11.7	129	0.00
65		tert-Butylbenzene	2.157	2.314	-7.3	128	0.00
66	T	Benzyl Chloride	0.240	0.205	14.6	89	0.00
67		sec-Butylbenzene	3.062	3.396	-10.9	132	0.00
68	S	1-Bromo-4-Fluorobenzene	0.777	0.809	-4.1	109	0.00
69		p-Isopropyltoluene	2.602	2.767	-6.3	125	0.00
70		n-Butylbenzene	2.564	2.831	-10.4	128	0.00
71		2-Chlorotoluene	1.863	2.050	-10.0	127	0.00
72	T	4-Ethyltoluene	1.662	1.880	-13.1	129	0.00
73	T	1,3,5-Trimethylbenzene	1.371	1.537	-12.1	128	0.00
74	T	1,2,4-Trimethylbenzene	1.534	1.694	-10.4	134	0.00
75	T	1,3-Dichlorobenzene	0.890	1.050	-18.0	135	0.00
76	T	1,4-Dichlorobenzene	0.897	1.033	-15.2	132	0.00
77	T	1,2-Dichlorobenzene	0.861	1.000	-16.1	137	0.00
78	T	Hexachloro-1,3-Butadiene	0.667	0.696	-4.3	132	0.00
79	T	Naphthalene	1.604	1.673	-4.3	111	0.00
80	T	Naphthalene,2-methyl-	0.418	0.412	1.4	91	0.00
81	T	1,2,4-Trichlorobenzene	0.666	0.710	-6.6	117	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043191.D
Acq On : 13 Nov 2025 09:01
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 14 04:35:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 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	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	136	0.00
2	T	Dichlorodifluoromethane	10.000	9.277	7.2	141	0.00
3		Chlorodifluoromethane	10.000	9.520	4.8	138	0.00
4		Chloromethane	10.000	8.267	17.3	127	0.00
5	T	Vinyl Chloride	10.000	8.368	16.3	131	0.00
6	T	Bromomethane	10.000	9.032	9.7	143	0.00
7		Chloroethane	10.000	8.142	18.6	131	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.192	8.1	138	0.00
9	T	Propene	10.000	8.205	17.9	116	0.00
10	T	Heptane	10.000	9.235	7.7	137	0.00
11	T	Trichlorofluoromethane	10.000	10.347	-3.5	158	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.906	0.9	155	0.00
13		Ethanol	10.000	6.395	36.1#	114	0.00
14	T	Bromoethene	10.000	9.474	5.3	145	0.00
15	T	Acetone	10.000	8.222	17.8	139	0.00
16	T	1,3-Butadiene	10.000	7.828	21.7	124	0.00
17		tert-Butyl alcohol	10.000	8.089	19.1	121	0.00
18	T	1,1-Dichloroethene	10.000	9.773	2.3	149	0.00
19	T	Isopropyl Alcohol	10.000	7.541	24.6	119	0.00
20	T	Methylene Chloride	10.000	8.114	18.9	145	0.00
21	T	Allyl Chloride	10.000	8.450	15.5	126	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.336	6.6	145	0.00
23	T	Vinyl Acetate	10.000	10.319	-3.2	171	0.00
24	T	1,1-Dichloroethane	10.000	9.305	7.0	139	0.00
25	T	Ethyl Acetate	10.000	9.682	3.2	141	0.00
26	T	Hexane	10.000	9.534	4.7	142	0.00
27	T	Carbon Disulfide	10.000	9.620	3.8	141	0.00
28	T	Methyl tert-Butyl Ether	10.000	8.484	15.2	138	0.00
29	T	Chloroform	10.000	9.723	2.8	146	0.00
30	T	Cyclohexane	10.000	8.490	15.1	128	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.244	7.6	132	0.00
32	T	1,1,1-Trichloroethane	10.000	8.887	11.1	132	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	111	0.00
34	T	2-Butanone	10.000	11.940	-19.4	147	0.00
35	T	Carbon Tetrachloride	10.000	11.078	-10.8	136	0.00
36	T	Benzene	10.000	11.039	-10.4	133	0.00
37	T	1,2-Dichloroethane	10.000	11.049	-10.5	137	0.00
38	T	Trichloroethene	10.000	9.599	4.0	122	0.00
39	T	1,2-Dichloropropane	10.000	11.310	-13.1	136	0.01
40	T	1,4-Dioxane	10.000	9.811	1.9	119	0.00
41	T	Tetrahydrofuran	10.000	10.704	-7.0	130	0.00
42	T	Bromodichloromethane	10.000	11.299	-13.0	135	0.00
43		Methyl Methacrylate	10.000	10.193	-1.9	120	0.00
44	T	2,2,4-Trimethylpentane	10.000	11.376	-13.8	137	0.00
45	T	t-1,3-Dichloropropene	10.000	9.458	5.4	109	0.00
46	T	cis-1,3-Dichloropropene	10.000	9.947	0.5	116	0.00
47	T	1,1,2-Trichloroethane	10.000	10.924	-9.2	133	0.00
48	T	Dibromochloromethane	10.000	10.729	-7.3	126	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043191.D
Acq On : 13 Nov 2025 09:01
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 14 04:35:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 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	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Bromoform	10.000	11.657	-16.6	134	0.00
50	T	4-Methyl-2-Pentanone	10.000	10.896	-9.0	128	0.00
51	T	2-Hexanone	10.000	10.990	-9.9	123	0.00
52	T	Tetrachloroethene	10.000	10.058	-0.6	121	0.00
53	T	Toluene	10.000	9.842	1.6	118	0.00
54	T	1,2-Dibromoethane	10.000	10.434	-4.3	127	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	105	0.00
56		1,1,1,2-Tetrachloroethane	10.000	11.648	-16.5	131	0.00
57	T	Chlorobenzene	10.000	11.148	-11.5	129	0.00
58	T	Ethyl Benzene	10.000	10.543	-5.4	119	0.00
59	T	m/p-Xylene	20.000	22.079	-10.4	128	0.02
60	T	o-Xylene	10.000	11.090	-10.9	129	0.00
61	T	Styrene	10.000	9.851	1.5	109	0.00
62		Isopropylbenzene	10.000	11.111	-11.1	127	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	11.592	-15.9	142	0.00
64		n-propylbenzene	10.000	11.181	-11.8	129	0.00
65		tert-Butylbenzene	10.000	10.727	-7.3	128	0.00
66	T	Benzyl Chloride	10.000	8.537	14.6	89	0.00
67		sec-Butylbenzene	10.000	11.092	-10.9	132	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.406	-4.1	109	0.00
69		p-Isopropyltoluene	10.000	10.634	-6.3	125	0.00
70		n-Butylbenzene	10.000	11.043	-10.4	128	0.00
71		2-Chlorotoluene	10.000	11.000	-10.0	127	0.00
72	T	4-Ethyltoluene	10.000	11.307	-13.1	129	0.00
73	T	1,3,5-Trimethylbenzene	10.000	11.207	-12.1	128	0.00
74	T	1,2,4-Trimethylbenzene	10.000	11.044	-10.4	134	0.00
75	T	1,3-Dichlorobenzene	10.000	11.801	-18.0	135	0.00
76	T	1,4-Dichlorobenzene	10.000	11.518	-15.2	132	0.00
77	T	1,2-Dichlorobenzene	10.000	11.620	-16.2	137	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	10.443	-4.4	132	0.00
79	T	Naphthalene	10.000	10.430	-4.3	111	0.00
80	T	Naphthalene,2-methyl-	10.000	9.870	1.3	91	0.00
81	T	1,2,4-Trichlorobenzene	10.000	10.671	-6.7	117	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

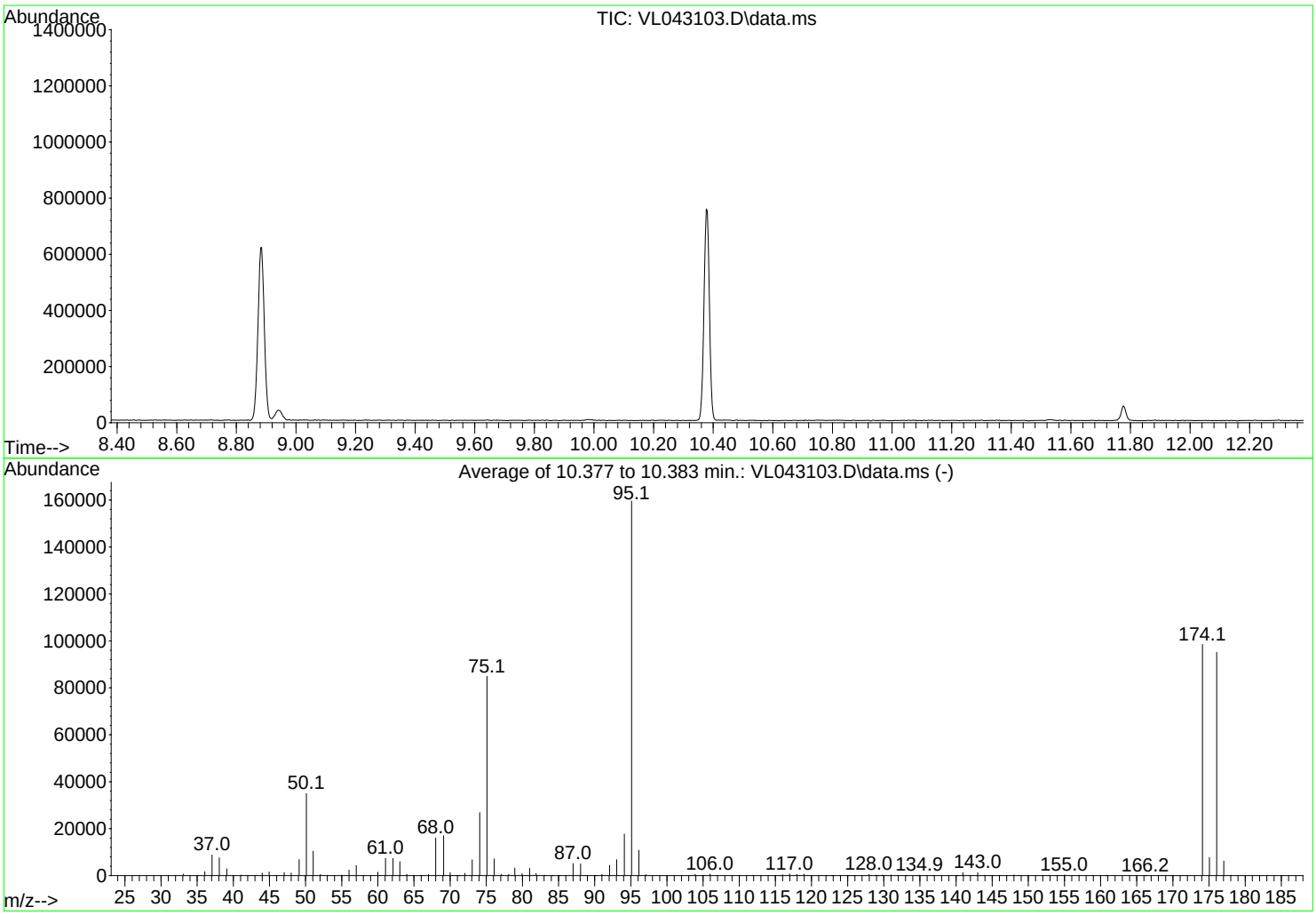
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043103.D
Acq On : 14 Oct 2025 08:42
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\VL101425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Oct 15 02:12:58 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3159

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.9	35021	PASS
75	95	30	66	53.2	84899	PASS
95	95	100	100	100.0	159660	PASS
96	95	5	9	6.8	10862	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	61.7	98536	PASS
175	174	4	9	7.8	7669	PASS
176	174	93	101	96.5	95125	PASS
177	176	5	9	6.6	6237	PASS

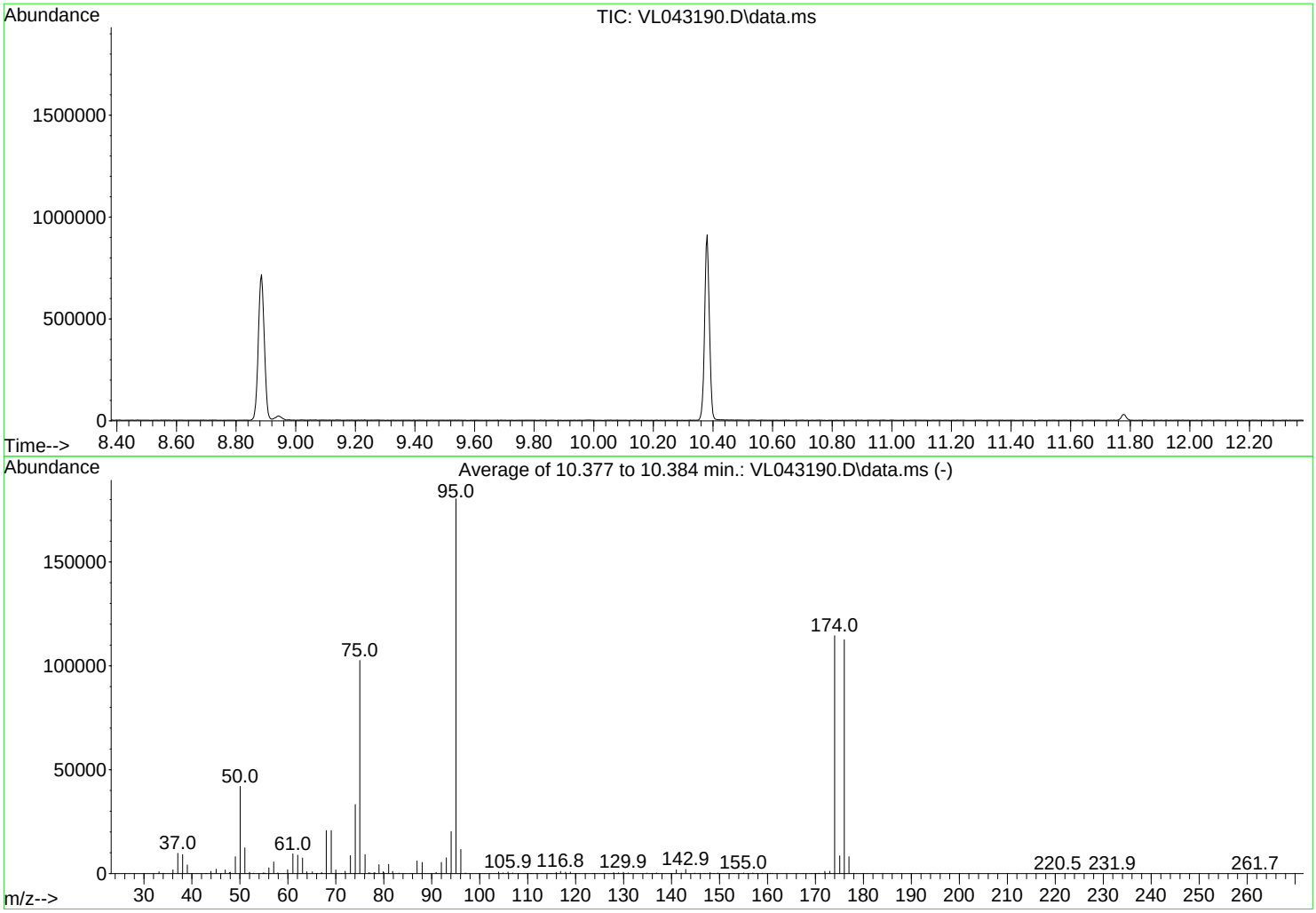
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043190.D
Acq On : 13 Nov 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\VL101425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Oct 15 02:12:58 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.3	41979	PASS
75	95	30	66	56.9	102581	PASS
95	95	100	100	100.0	180352	PASS
96	95	5	9	6.4	11615	PASS
173	174	0.00	2	1.0	1106	PASS
174	95	50	120	63.5	114525	PASS
175	174	4	9	7.5	8536	PASS
176	174	93	101	98.3	112568	PASS
177	176	5	9	7.2	8084	PASS

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	Ashley	Date Received:	
Client Sample ID:	VL1113ABL01	SDG No.:	Q3627
Lab Sample ID:	VL1113ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.11	0.54	U	1	0.54	2.47	11/13/25 09:47	VL111325
74-87-3	Chloromethane	0.10	0.21	U	1	0.21	1.03	11/13/25 09:47	VL111325
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/13/25 09:47	VL111325
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/13/25 09:47	VL111325
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/13/25 09:47	VL111325
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	11/13/25 09:47	VL111325
75-69-4	Trichlorofluoromethane	0.17	0.96	U	1	0.96	2.81	11/13/25 09:47	VL111325
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/13/25 09:47	VL111325
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/13/25 09:47	VL111325
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/13/25 09:47	VL111325
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/13/25 09:47	VL111325
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/13/25 09:47	VL111325
67-64-1	Acetone	0.18	0.43	U	1	0.43	1.19	11/13/25 09:47	VL111325
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/13/25 09:47	VL111325
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/13/25 09:47	VL111325
75-09-2	Methylene Chloride	0.23	0.80	U	1	0.80	1.74	11/13/25 09:47	VL111325
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/13/25 09:47	VL111325
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/13/25 09:47	VL111325
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/13/25 09:47	VL111325
78-93-3	2-Butanone	0.060	0.18	U	1	0.18	1.47	11/13/25 09:47	VL111325
56-23-5	Carbon Tetrachloride	0.030	0.19	U	1	0.19	0.19	11/13/25 09:47	VL111325
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/13/25 09:47	VL111325
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	11/13/25 09:47	VL111325
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/13/25 09:47	VL111325
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/13/25 09:47	VL111325
71-43-2	Benzene	0.080	0.26	U	1	0.26	1.60	11/13/25 09:47	VL111325
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	11/13/25 09:47	VL111325
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/13/25 09:47	VL111325
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/13/25 09:47	VL111325
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/13/25 09:47	VL111325
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	11/13/25 09:47	VL111325
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	11/13/25 09:47	VL111325
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/13/25 09:47	VL111325
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/13/25 09:47	VL111325
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/13/25 09:47	VL111325
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/13/25 09:47	VL111325
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/13/25 09:47	VL111325
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/13/25 09:47	VL111325
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/13/25 09:47	VL111325
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/13/25 09:47	VL111325
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/13/25 09:47	VL111325
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/13/25 09:47	VL111325
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	11/13/25 09:47	VL111325
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/13/25 09:47	VL111325
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/13/25 09:47	VL111325
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/13/25 09:47	VL111325

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	Ashley	Date Received:	
Client Sample ID:	VL1113ABL01	SDG No.:	Q3627
Lab Sample ID:	VL1113ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/13/25 09:47	VL111325
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/13/25 09:47	VL111325
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	11/13/25 09:47	VL111325
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/13/25 09:47	VL111325
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	11/13/25 09:47	VL111325
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	11/13/25 09:47	VL111325
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	11/13/25 09:47	VL111325
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	11/13/25 09:47	VL111325
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/13/25 09:47	VL111325
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	11/13/25 09:47	VL111325
110-54-3	Hexane	0.16	0.56	U	1	0.56	1.76	11/13/25 09:47	VL111325
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	11/13/25 09:47	VL111325
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	11/13/25 09:47	VL111325
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	11/13/25 09:47	VL111325

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.60	70 (65) - 130	96%	SPK: 10	

INTERNAL STANDARDS		Area Count
74-97-5	Bromochloromethane	137000
540-36-3	1,4-Difluorobenzene	369000
3114-55-4	Chlorobenzene-d5	306000

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

E = Value Exceeds Calibration Range

D = Dilution

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

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043192.D
Acq On : 13 Nov 2025 09:47
Operator : SY/MD
Sample : VL1113ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABL01

Quant Time: Nov 14 04:36:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

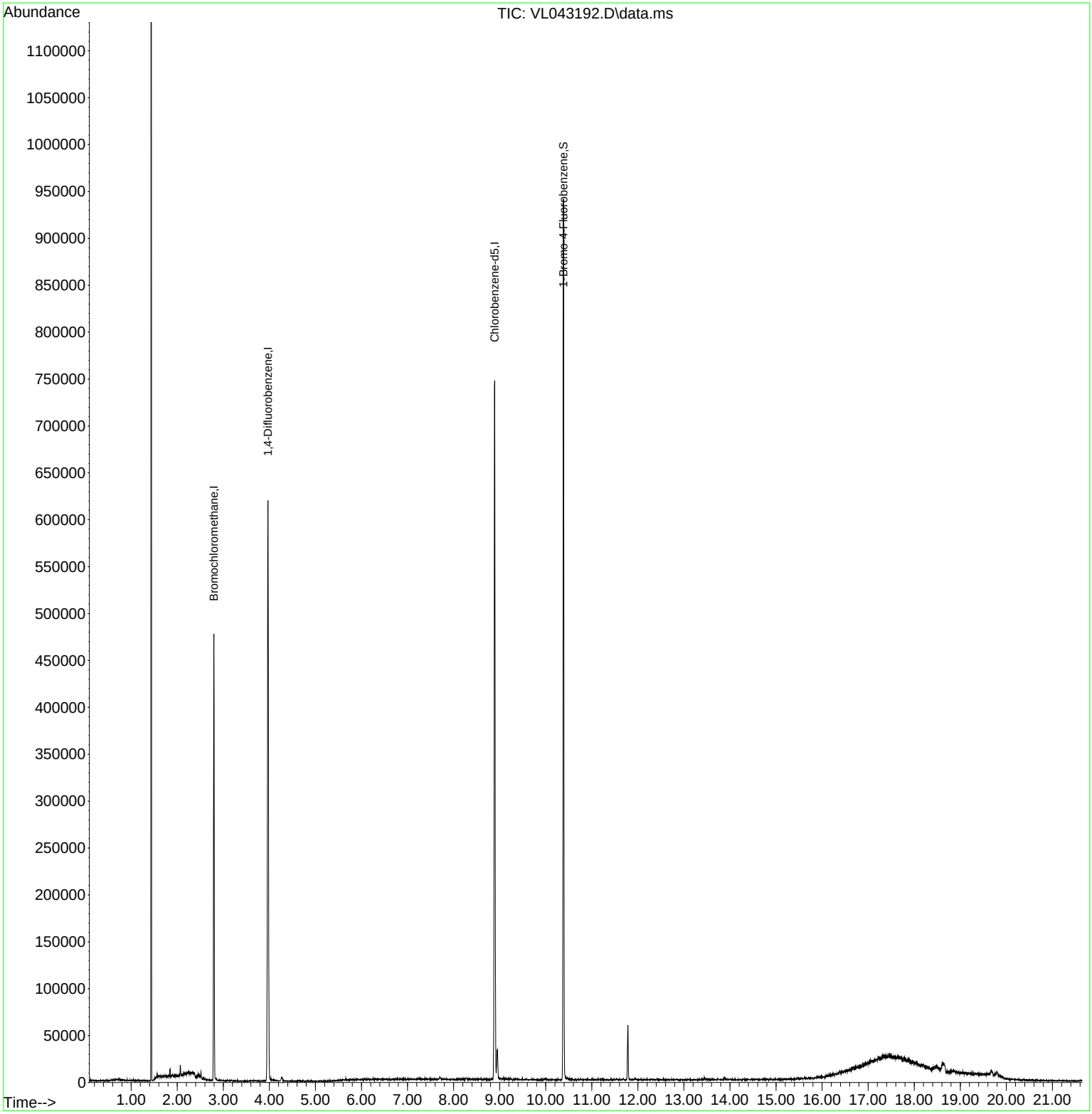
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	136642	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	369240	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	306160	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	228486	9.601	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.000%			
Target Compounds						Qvalue

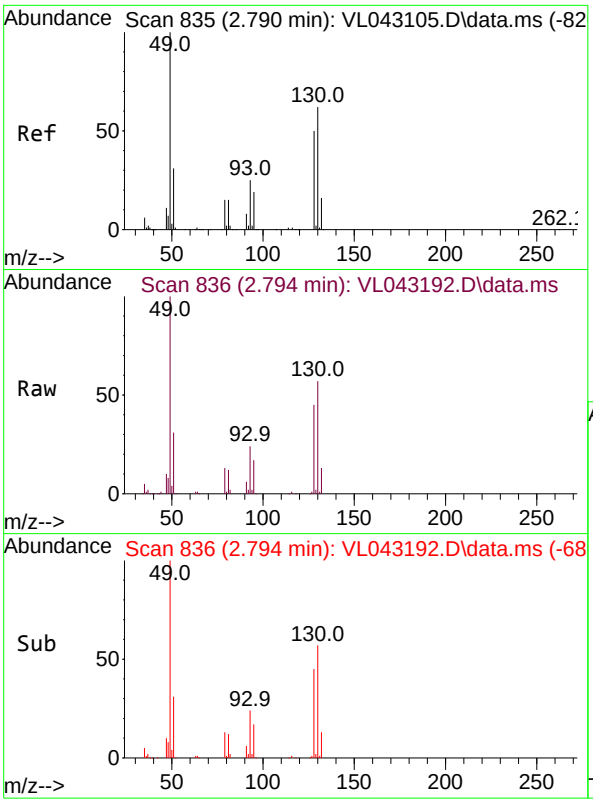
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043192.D
Acq On : 13 Nov 2025 09:47
Operator : SY/MD
Sample : VL1113ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABL01

Quant Time: Nov 14 04:36:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



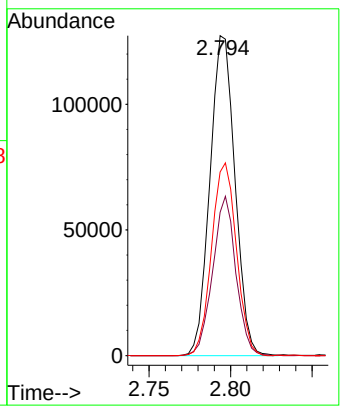


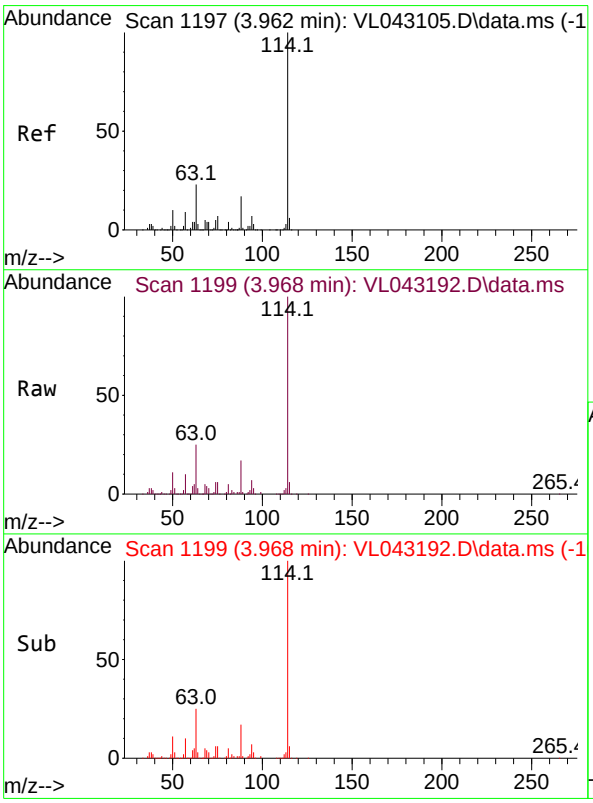
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL043192.D
Acq: 13 Nov 2025 09:47

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABL01

Tgt Ion: 49 Resp: 136642

Ion	Ratio	Lower	Upper
49	100		
128	46.0	24.4	73.4
130	59.7	31.0	93.0

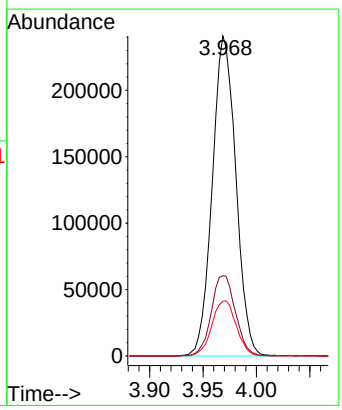


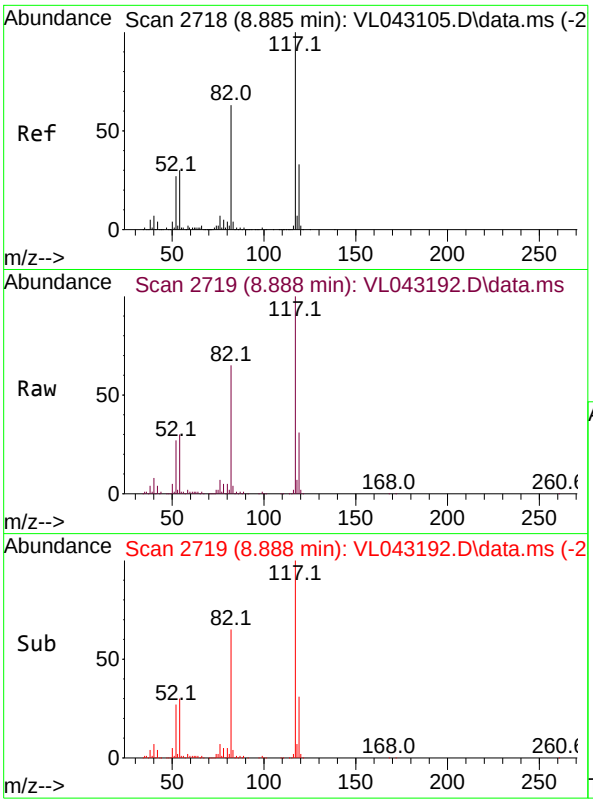


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.006 min
Lab File: VL043192.D
Acq: 13 Nov 2025 09:47

Tgt Ion:114 Resp: 369240

Ion	Ratio	Lower	Upper
114	100		
63	25.8	19.3	28.9
88	17.8	13.9	20.9



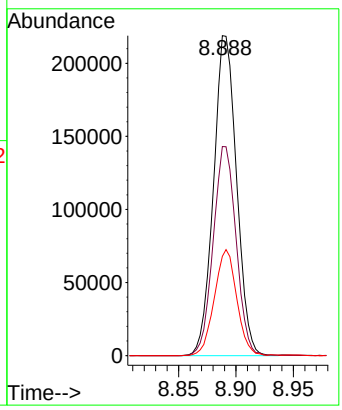


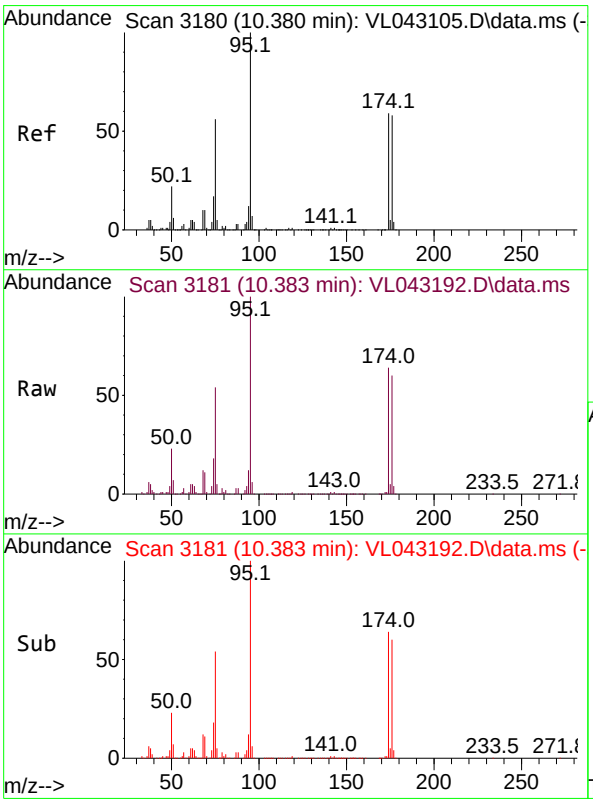
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043192.D
Acq: 13 Nov 2025 09:47

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABL01

Tgt Ion:117 Resp: 306160

Ion	Ratio	Lower	Upper
117	100		
82	64.9	53.8	80.8
119	32.4	25.4	38.0

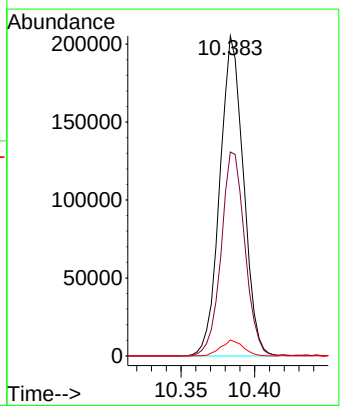




#68
1-Bromo-4-Fluorobenzene
Concen: 9.601 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL043192.D
Acq: 13 Nov 2025 09:47

Tgt Ion: 95 Resp: 228486

Ion	Ratio	Lower	Upper
95	100		
174	64.4	48.3	72.5
175	4.7	3.8	5.8



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

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	Ashley	Date Received:	
Client Sample ID:	VL1113ABS01	SDG No.:	Q3627
Lab Sample ID:	VL1113ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	9.50	47.0		1	0.54	2.47	11/13/25 10:53	VL111325
74-87-3	Chloromethane	8.30	17.1		1	0.21	1.03	11/13/25 10:53	VL111325
75-01-4	Vinyl Chloride	8.40	21.5		1	0.080	0.080	11/13/25 10:53	VL111325
74-83-9	Bromomethane	9.50	36.9		1	0.31	1.94	11/13/25 10:53	VL111325
75-00-3	Chloroethane	8.40	22.2		1	0.40	1.32	11/13/25 10:53	VL111325
109-99-9	Tetrahydrofuran	11.1	32.7		1	0.24	1.47	11/13/25 10:53	VL111325
75-69-4	Trichlorofluoromethane	10.5	59.0		1	0.96	2.81	11/13/25 10:53	VL111325
76-13-1	1,1,2-Trichlorotrifluoroethane	10.1	77.4		1	1.07	3.83	11/13/25 10:53	VL111325
76-14-2	Dichlorotetrafluoroethane	9.30	65.0		1	1.05	3.49	11/13/25 10:53	VL111325
75-65-0	tert-Butyl alcohol	8.30	25.2		1	0.49	1.52	11/13/25 10:53	VL111325
142-82-5	Heptane	9.40	38.5		1	0.70	2.05	11/13/25 10:53	VL111325
75-35-4	1,1-Dichloroethene	10.0	39.6		1	0.59	1.98	11/13/25 10:53	VL111325
67-64-1	Acetone	8.50	20.2		1	0.43	1.19	11/13/25 10:53	VL111325
75-15-0	Carbon Disulfide	9.80	30.5		1	0.25	1.56	11/13/25 10:53	VL111325
1634-04-4	Methyl tert-Butyl Ether	8.10	29.2		1	0.83	1.80	11/13/25 10:53	VL111325
75-09-2	Methylene Chloride	8.10	28.1		1	0.80	1.74	11/13/25 10:53	VL111325
156-60-5	trans-1,2-Dichloroethene	9.60	38.1		1	0.48	1.98	11/13/25 10:53	VL111325
75-34-3	1,1-Dichloroethane	9.50	38.5		1	0.53	2.02	11/13/25 10:53	VL111325
110-82-7	Cyclohexane	8.60	29.6		1	0.76	1.72	11/13/25 10:53	VL111325
78-93-3	2-Butanone	12.0	35.4		1	0.18	1.47	11/13/25 10:53	VL111325
56-23-5	Carbon Tetrachloride	11.2	70.5		1	0.19	0.19	11/13/25 10:53	VL111325
156-59-2	cis-1,2-Dichloroethene	9.50	37.7		1	0.40	1.98	11/13/25 10:53	VL111325
67-66-3	Chloroform	9.80	47.9		1	0.49	2.44	11/13/25 10:53	VL111325
71-55-6	1,1,1-Trichloroethane	9.00	49.1		1	0.11	0.16	11/13/25 10:53	VL111325
540-84-1	2,2,4-Trimethylpentane	11.4	53.3		1	0.65	2.34	11/13/25 10:53	VL111325
71-43-2	Benzene	11.2	35.8		1	0.26	1.60	11/13/25 10:53	VL111325
107-06-2	1,2-Dichloroethane	11.1	44.9		1	0.36	2.02	11/13/25 10:53	VL111325
79-01-6	Trichloroethene	9.90	53.2		1	0.11	0.16	11/13/25 10:53	VL111325
78-87-5	1,2-Dichloropropane	11.1	51.3		1	0.60	2.31	11/13/25 10:53	VL111325
75-27-4	Bromodichloromethane	11.5	77.0		1	0.40	3.35	11/13/25 10:53	VL111325
108-10-1	4-Methyl-2-Pentanone	10.9	44.7		1	0.41	2.05	11/13/25 10:53	VL111325
108-88-3	Toluene	10.1	38.1		1	0.60	1.88	11/13/25 10:53	VL111325
10061-02-6	t-1,3-Dichloropropene	9.60	43.6		1	0.68	2.27	11/13/25 10:53	VL111325
10061-01-5	cis-1,3-Dichloropropene	10.2	46.3		1	0.50	2.27	11/13/25 10:53	VL111325
79-00-5	1,1,2-Trichloroethane	11.2	61.1		1	0.44	2.73	11/13/25 10:53	VL111325
124-48-1	Dibromochloromethane	10.9	92.9		1	0.77	4.26	11/13/25 10:53	VL111325
106-93-4	1,2-Dibromoethane	10.6	81.5		1	0.69	0.77	11/13/25 10:53	VL111325
127-18-4	Tetrachloroethene	10.3	69.8		1	0.14	0.20	11/13/25 10:53	VL111325
108-90-7	Chlorobenzene	11.1	51.1		1	0.37	2.30	11/13/25 10:53	VL111325
100-41-4	Ethyl Benzene	10.6	46.0		1	0.83	2.17	11/13/25 10:53	VL111325
179601-23-1	m/p-Xylene	22.1	96.0		1	1.78	4.34	11/13/25 10:53	VL111325
95-47-6	o-Xylene	11.0	47.8		1	0.91	2.17	11/13/25 10:53	VL111325
100-42-5	Styrene	9.90	42.1		1	0.68	2.13	11/13/25 10:53	VL111325
75-25-2	Bromoform	11.5	119		1	0.52	5.17	11/13/25 10:53	VL111325
79-34-5	1,1,2,2-Tetrachloroethane	11.3	77.6		1	0.14	0.21	11/13/25 10:53	VL111325
95-49-8	2-Chlorotoluene	10.9	56.4		1	0.88	2.59	11/13/25 10:53	VL111325

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	Ashley	Date Received:	
Client Sample ID:	VL1113ABS01	SDG No.:	Q3627
Lab Sample ID:	VL1113ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3		Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	11.1	54.6		1	0.88	2.46		11/13/25 10:53	VL111325
95-63-6	1,2,4-Trimethylbenzene	10.9	53.6		1	0.88	2.46		11/13/25 10:53	VL111325
541-73-1	1,3-Dichlorobenzene	11.5	69.1		1	0.30	3.01		11/13/25 10:53	VL111325
106-46-7	1,4-Dichlorobenzene	11.5	69.1		1	0.78	3.01		11/13/25 10:53	VL111325
95-50-1	1,2-Dichlorobenzene	11.5	69.1		1	0.78	3.01		11/13/25 10:53	VL111325
120-82-1	1,2,4-Trichlorobenzene	10.7	79.4		1	1.56	3.71		11/13/25 10:53	VL111325
87-68-3	Hexachloro-1,3-Butadiene	10.2	109		1	1.39	5.33		11/13/25 10:53	VL111325
106-99-0	1,3-Butadiene	8.00	17.7		1	0.11	1.11		11/13/25 10:53	VL111325
91-20-3	Naphthalene	10.2	53.5		1	0.050	0.52		11/13/25 10:53	VL111325
622-96-8	4-Ethyltoluene	11.1	54.6		1	1.03	2.46		11/13/25 10:53	VL111325
110-54-3	Hexane	9.50	33.5		1	0.56	1.76		11/13/25 10:53	VL111325
107-05-1	Allyl Chloride	8.50	26.6		1	0.34	1.57		11/13/25 10:53	VL111325
123-91-1	1,4-Dioxane	10.2	36.8		1	0.79	1.80		11/13/25 10:53	VL111325
80-62-6	Methyl Methacrylate	10.3	42.2		1	0.57	2.05		11/13/25 10:53	VL111325
SURROGATES										
460-00-4	1-Bromo-4-Fluorobenzene	10.2				70 (65) - 130	102%	SPK: 10		
INTERNAL STANDARDS		**Area Count**								
74-97-5	Bromochloromethane	141000								
540-36-3	1,4-Difluorobenzene	382000								
3114-55-4	Chlorobenzene-d5	326000								

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\VL111325\
Data File : VL043193.D
Acq On : 13 Nov 2025 10:53
Operator : SY/MD
Sample : VL1113ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	140848	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	381641	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.891	117	326347	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	258637	10.196	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	189933	9.485	ppbv		100
3) Chlorodifluoromethane	1.479	51	208224	9.611	ppbv		100
4) Chloromethane	1.538	50	66230	8.349	ppbv		99
5) Vinyl Chloride	1.583	62	65244	8.386	ppbv		99
6) Bromomethane	1.674	94	40543	9.503	ppbv		99
7) Chloroethane	1.709	64	26713	8.397	ppbv		99
8) Dichlorotetrafluoroethane	1.557	85	150613	9.306	ppbv		91
9) Propene	1.486	41	83462	8.686	ppbv		96
10) Heptane	4.994	43	260465	9.416	ppbv		99
11) Trichlorofluoromethane	1.884	101	205038	10.468	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.146	101	158562	10.056	ppbv		98
13) Ethanol	1.725	45	23269	6.547	ppbv		95
14) Bromoethene	1.787	108	56772	9.692	ppbv		97
15) Acetone	1.839	43	160664	8.463	ppbv		100
16) 1,3-Butadiene	1.612	39	72141	7.974	ppbv		99
17) tert-Butyl alcohol	2.043	59	217484	8.346	ppbv		99
18) 1,1-Dichloroethene	2.039	96	69052	10.045	ppbv		88
19) Isopropyl Alcohol	1.890	45	92184	7.796	ppbv		91
20) Methylene Chloride	2.065	84	60706	8.090	ppbv		95
21) Allyl Chloride	2.101	41	119083	8.513	ppbv		96
22) trans-1,2-Dichloroethene	2.347	96	79043	9.619	ppbv		91
23) Vinyl Acetate	2.467	43	285067	10.251	ppbv	#	98
24) 1,1-Dichloroethane	2.415	63	150976	9.509	ppbv		99
25) Ethyl Acetate	2.839	43	467192	9.924	ppbv		99
26) Hexane	2.836	57	206119	9.502	ppbv		98
27) Carbon Disulfide	2.156	76	195762	9.849	ppbv		98
28) Methyl tert-Butyl Ether	2.444	73	80192	8.126	ppbv		94
29) Chloroform	2.855	83	309209	9.837	ppbv		99
30) Cyclohexane	3.868	84	163223	8.621	ppbv		98
31) cis-1,2-Dichloroethene	2.729	61	196567	9.489	ppbv		97
32) 1,1,1-Trichloroethane	3.376	97	294760	9.005	ppbv		97
34) 2-Butanone	2.560	43	306642	11.953	ppbv		99
35) Carbon Tetrachloride	3.774	117	307371	11.202	ppbv		98
36) Benzene	3.664	78	401100	11.159	ppbv		98
37) 1,2-Dichloroethane	3.224	62	228931	11.056	ppbv		98
38) Trichloroethene	4.561	130	148220	9.873	ppbv		98
39) 1,2-Dichloropropane	4.324	63	146018	11.112	ppbv		95
40) 1,4-Dioxane	4.590	88	60137	10.227	ppbv	#	95
41) Tetrahydrofuran	3.059	42	159113	11.089	ppbv		96
42) Bromodichloromethane	4.499	83	329652	11.502	ppbv		99
43) Methyl Methacrylate	4.888	69	188689	10.336	ppbv		97
44) 2,2,4-Trimethylpentane	4.655	57	691827	11.408	ppbv		99
45) t-1,3-Dichloropropene	6.428	75	175660	9.588	ppbv		96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043193.D
Acq On : 13 Nov 2025 10:53
Operator : SY/MD
Sample : VL1113ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	222196	10.153	ppbv		96
47) 1,1,2-Trichloroethane	6.593	97	159359	11.230	ppbv		96
48) Dibromochloromethane	7.396	129	258701	10.903	ppbv		98
49) Bromoform	9.490	173	221619	11.491	ppbv		100
50) 4-Methyl-2-Pentanone	5.761	43	385105	10.877	ppbv		99
51) 2-Hexanone	7.444	43	289935	10.918	ppbv	#	97
52) Tetrachloroethene	8.234	164	133238	10.279	ppbv		97
53) Toluene	6.946	91	428768	10.051	ppbv		99
54) 1,2-Dibromoethane	7.661	107	236351	10.633	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.933	131	240077	11.670	ppbv		100
57) Chlorobenzene	8.930	112	337602	11.058	ppbv		99
58) Ethyl Benzene	9.364	91	594417	10.613	ppbv		99
59) m/p-Xylene	9.558	91	989218m	22.144	ppbv		
60) o-Xylene	9.972	91	487054	11.039	ppbv		100
61) Styrene	9.878	104	198117	9.947	ppbv		98
62) Isopropylbenzene	10.545	105	876032	10.988	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.969	83	335111	11.343	ppbv		100
64) n-propylbenzene	10.995	120	228911	10.845	ppbv		91
65) tert-Butylbenzene	11.536	119	750836	10.665	ppbv		100
66) Benzyl Chloride	11.623	91	68177	8.701	ppbv		99
67) sec-Butylbenzene	11.775	105	1088172	10.891	ppbv		99
69) p-Isopropyltoluene	11.934	119	901546	10.618	ppbv		99
70) n-Butylbenzene	12.287	91	917214	10.962	ppbv		99
71) 2-Chlorotoluene	10.908	91	661575	10.880	ppbv		100
72) 4-Ethyltoluene	11.131	105	603491	11.124	ppbv		100
73) 1,3,5-Trimethylbenzene	11.212	105	496215	11.091	ppbv		97
74) 1,2,4-Trimethylbenzene	11.545	105	543655	10.858	ppbv	#	84
75) 1,3-Dichlorobenzene	11.613	146	334602	11.522	ppbv		99
76) 1,4-Dichlorobenzene	11.678	146	337741	11.534	ppbv		98
77) 1,2-Dichlorobenzene	11.953	146	321835	11.456	ppbv		97
78) Hexachloro-1,3-Butadiene	13.889	225	222076	10.210	ppbv		99
79) Naphthalene	13.520	128	535902	10.240	ppbv		99
80) Naphthalene,2-methyl-	14.465	142	136849	10.037	ppbv		97
81) 1,2,4-Trichlorobenzene	13.445	180	232626	10.710	ppbv		99

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043193.D
Acq On : 13 Nov 2025 10:53
Operator : SY/MD
Sample : VL1113ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations APPROVED

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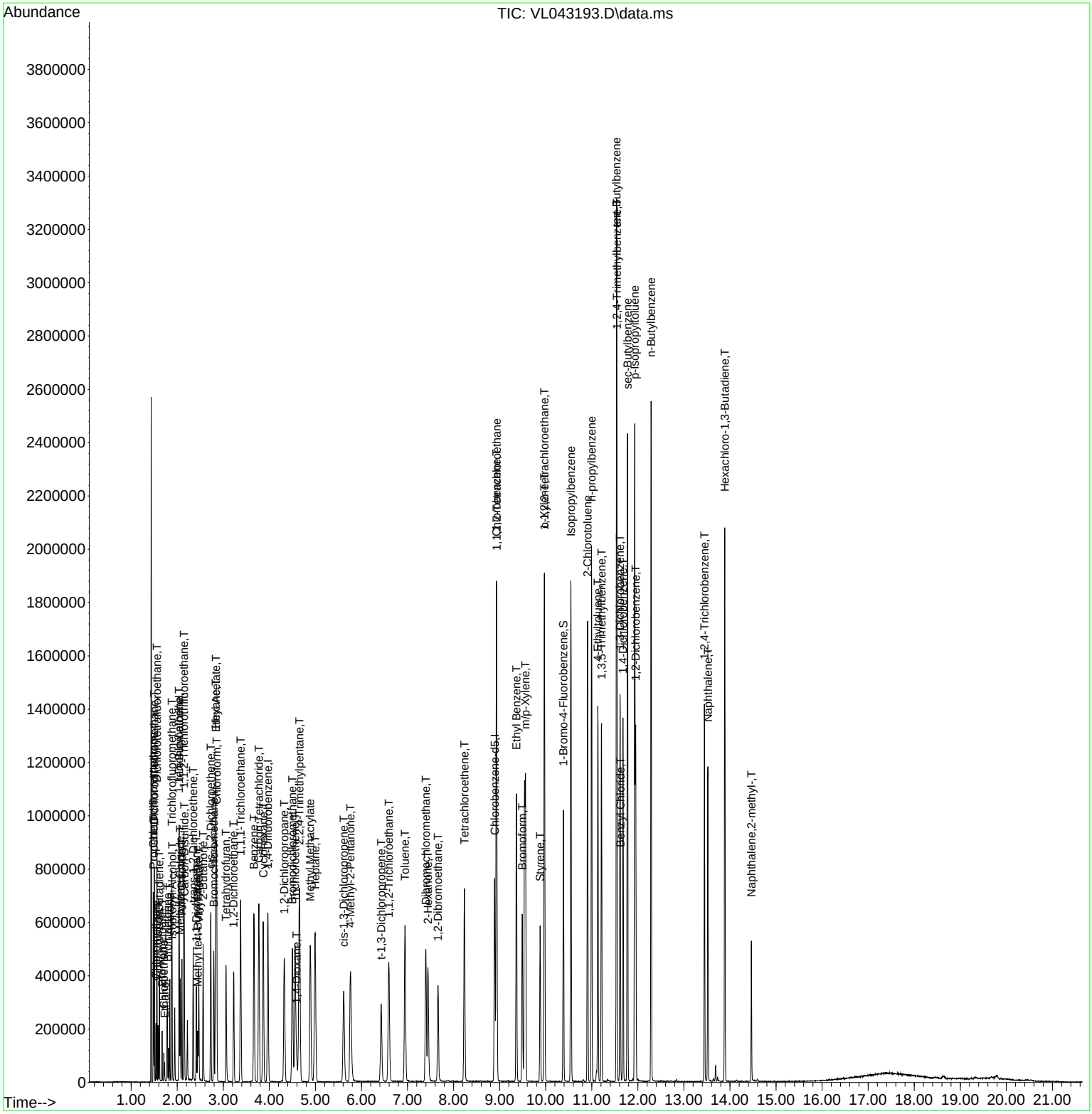
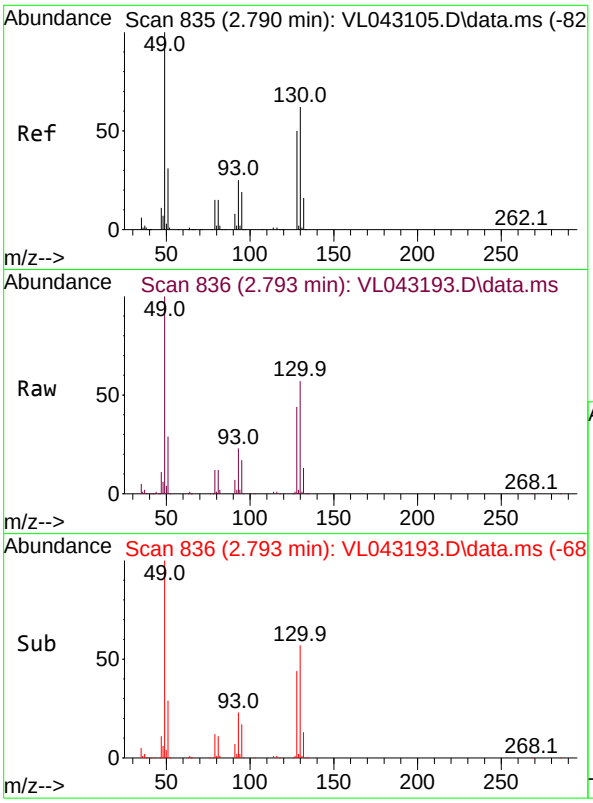
Supervised By :Mahesh Dadoda 11/18/2025

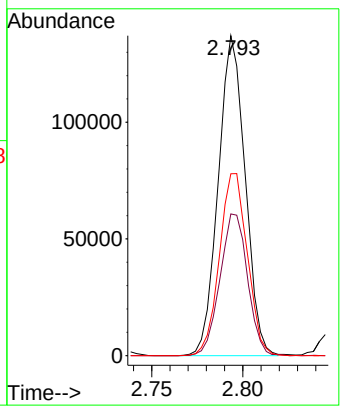




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 49 Resp: 14084

Ion	Ratio	Lower	Upper
49	100		
128	45.4	24.4	73.4
130	59.0	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations
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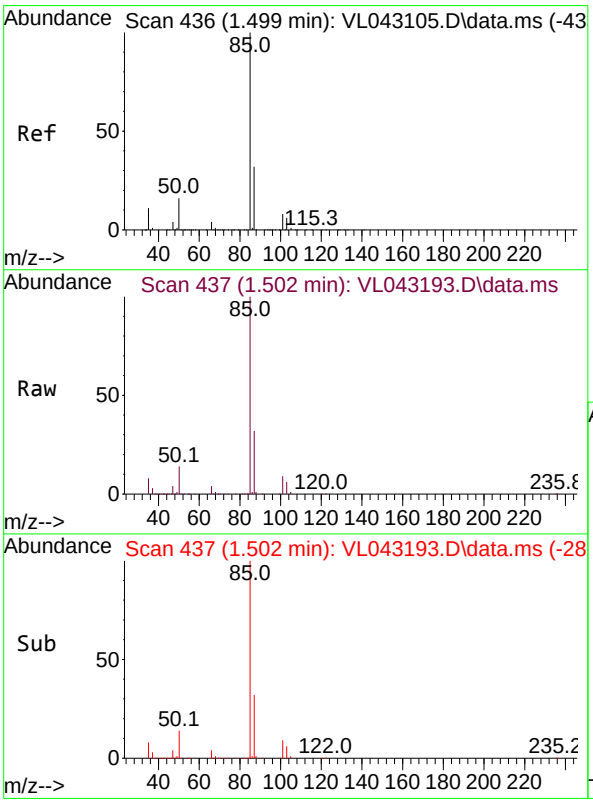
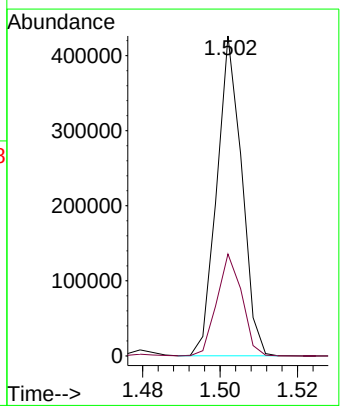
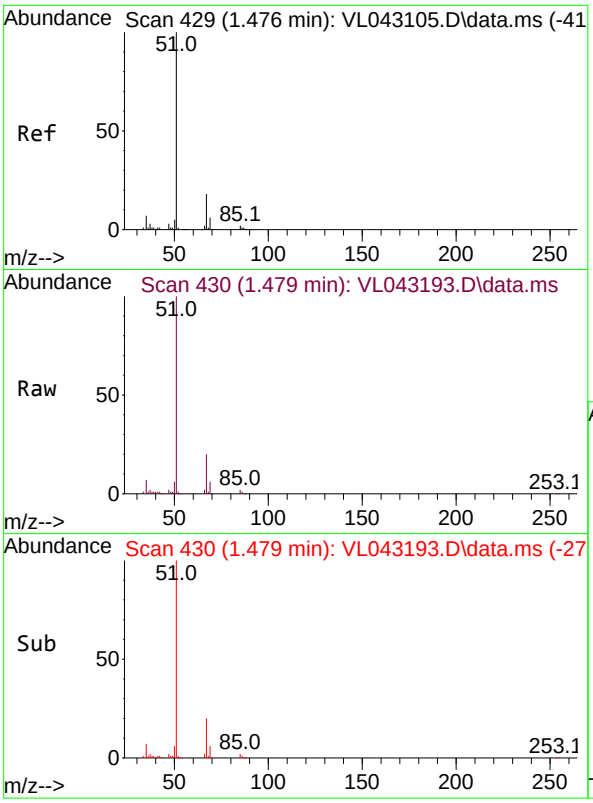


#2
Dichlorodifluoromethane
Concen: 9.485 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 85 Resp: 189933

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.3	37.9

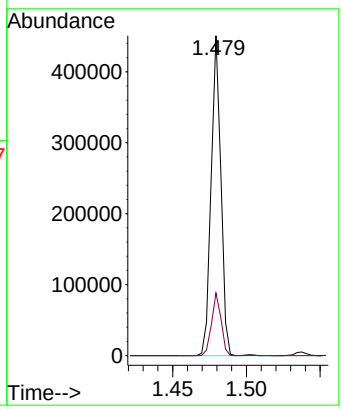




#3
Chlorodifluoromethane
Concen: 9.611 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 51 Resp: 20822

Ion	Ratio	Lower	Upper
51	100		
67	19.1	15.1	22.7



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations
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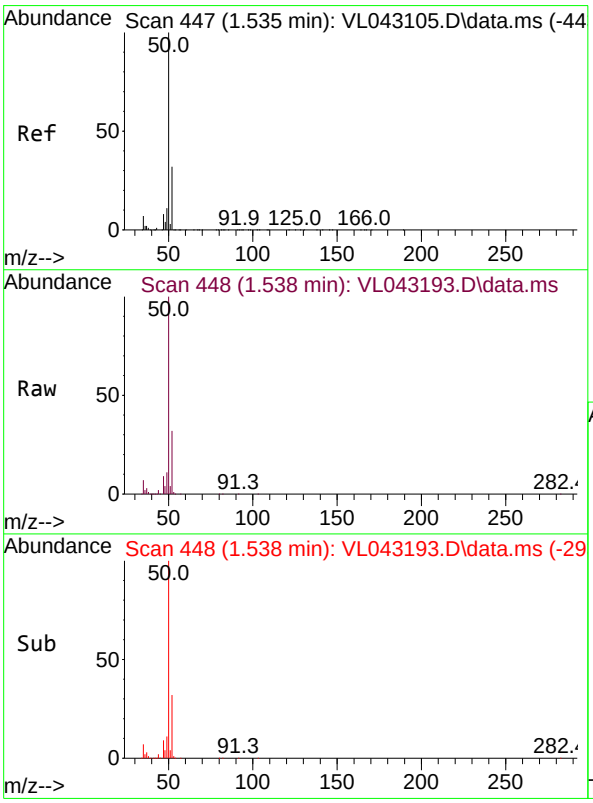
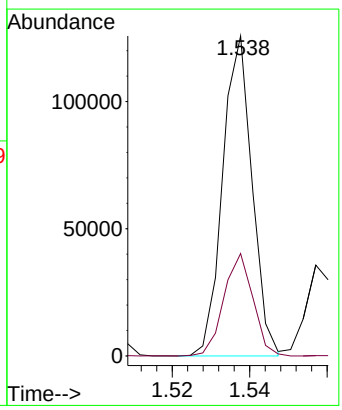
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

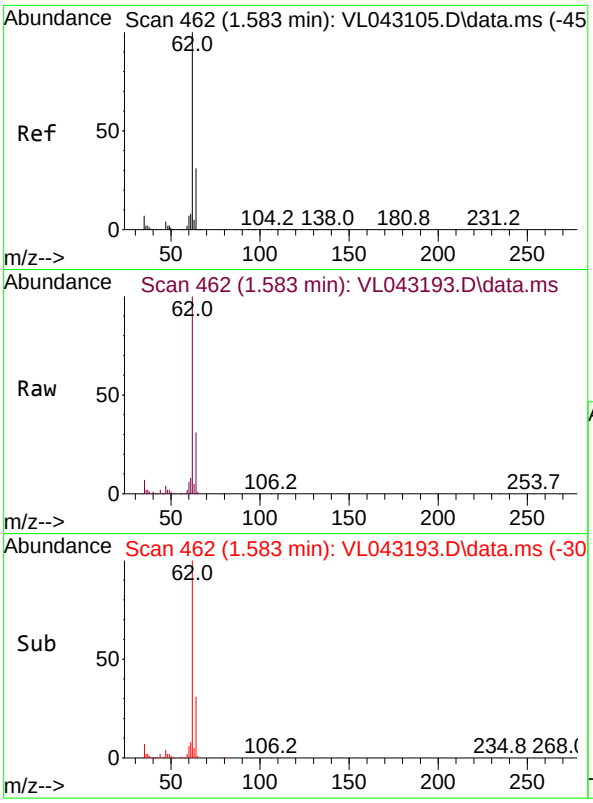


#4
Chloromethane
Concen: 8.349 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 50 Resp: 66230

Ion	Ratio	Lower	Upper
50	100		
52	32.0	25.2	37.8

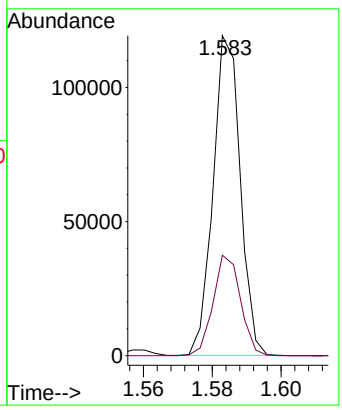




#5
Vinyl Chloride
Concen: 8.386 ppbv
RT: 1.583 min Scan# 4(
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 62 Resp: 6524

Ion	Ratio	Lower	Upper
62	100		
64	31.4	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/17/2025
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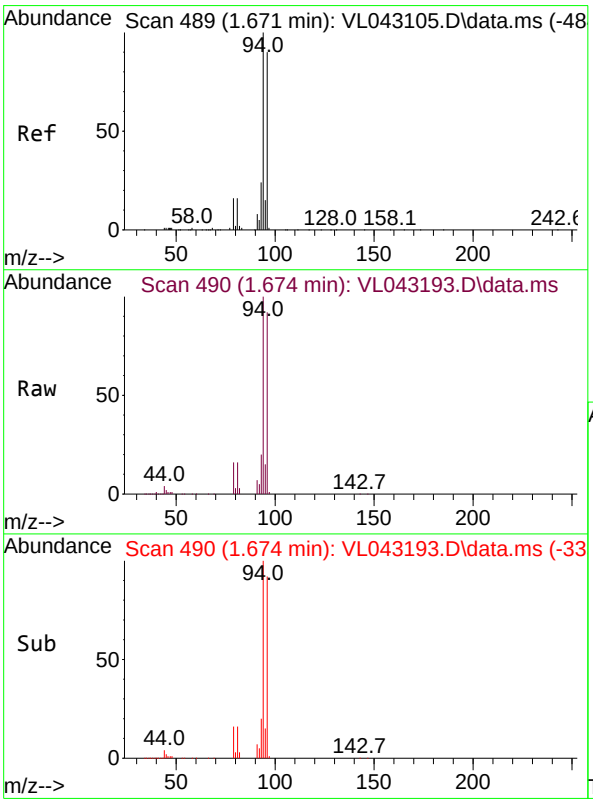
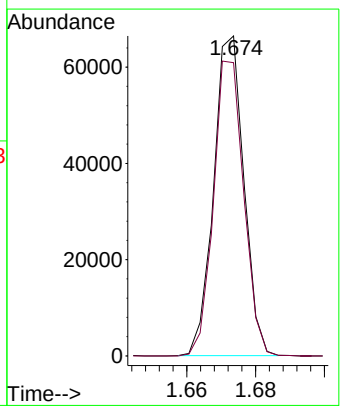
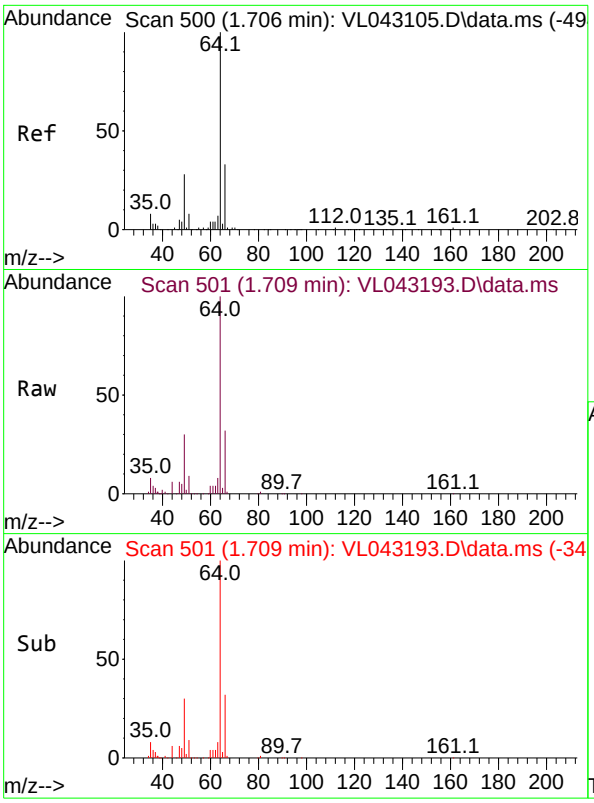


#6
Bromomethane
Concen: 9.503 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 94 Resp: 40543

Ion	Ratio	Lower	Upper
94	100		
96	91.7	72.2	108.4

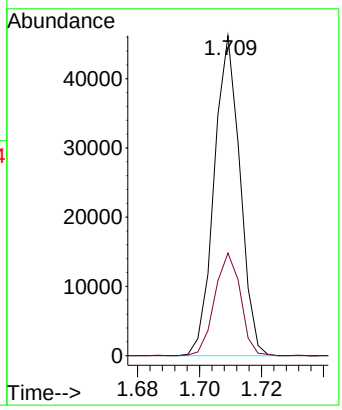




#7
Chloroethane
Concen: 8.397 ppbv
RT: 1.709 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 64 Resp: 2671

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.0	39.0



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations
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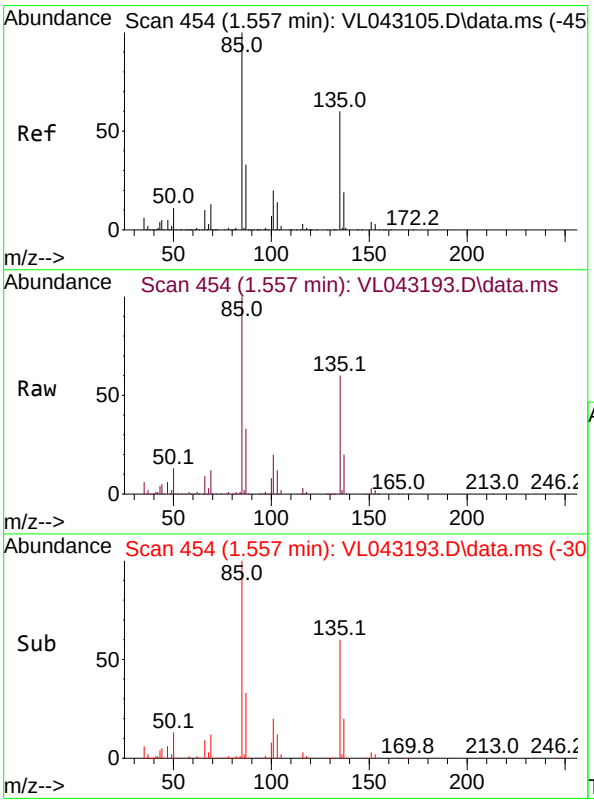
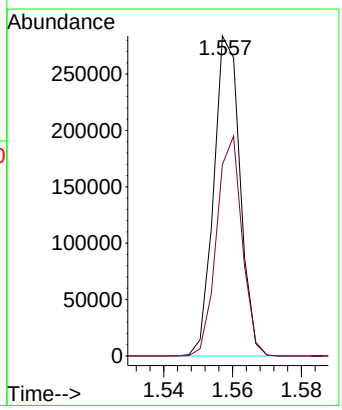
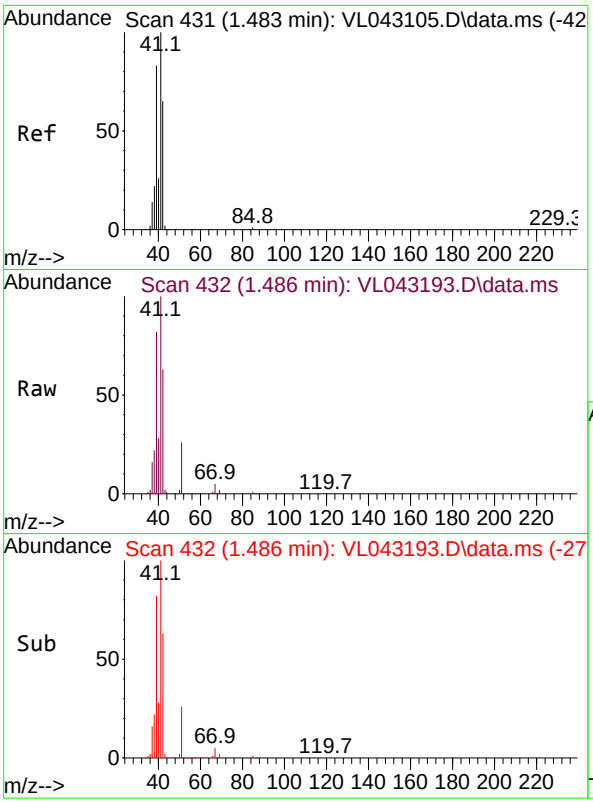


#8
Dichlorotetrafluoroethane
Concen: 9.306 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 85 Resp: 150613

Ion	Ratio	Lower	Upper
85	100		
135	66.8	48.2	72.4

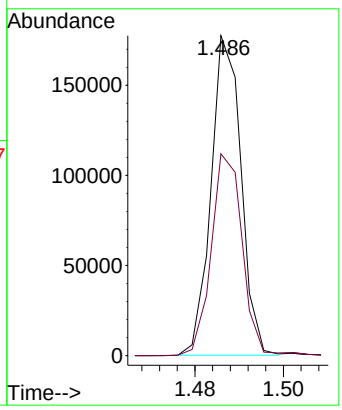




#9
Propene
Concen: 8.686 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 41 Resp: 8346

Ion	Ratio	Lower	Upper
41	100		
42	65.8	55.1	82.7



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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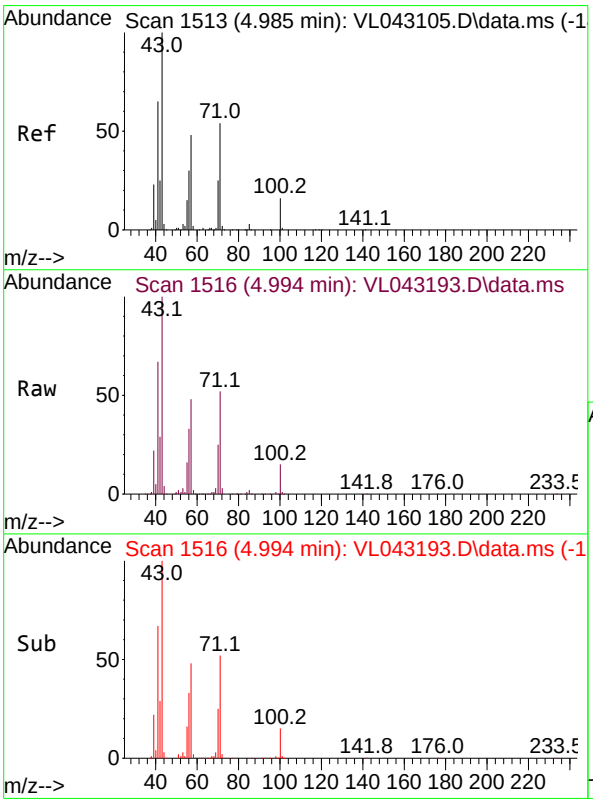
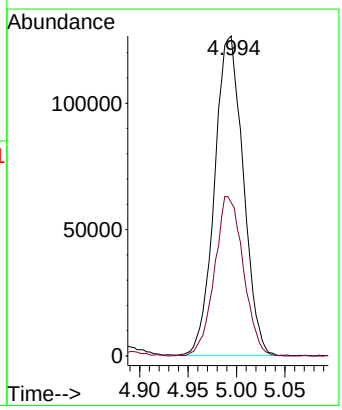
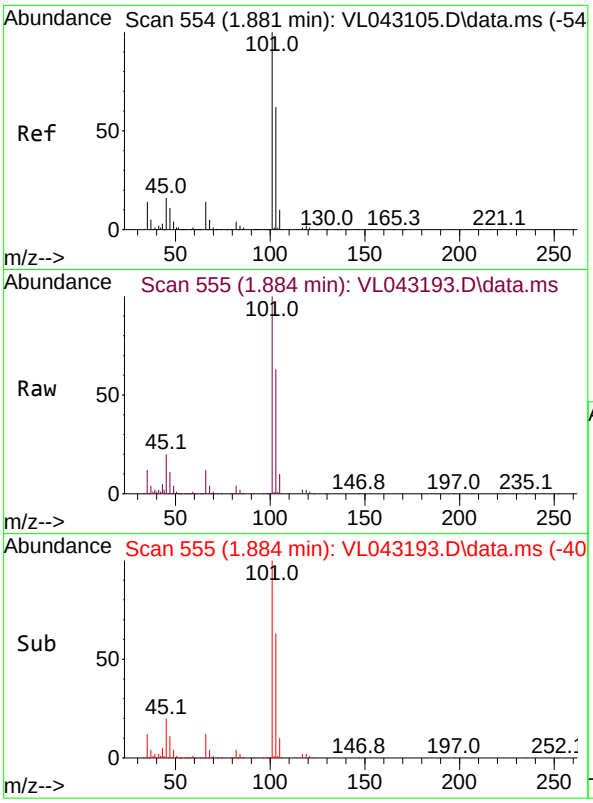


#10
Heptane
Concen: 9.416 ppbv
RT: 4.994 min Scan# 1516
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 43 Resp: 260465

Ion	Ratio	Lower	Upper
43	100		
57	50.2	40.8	61.2

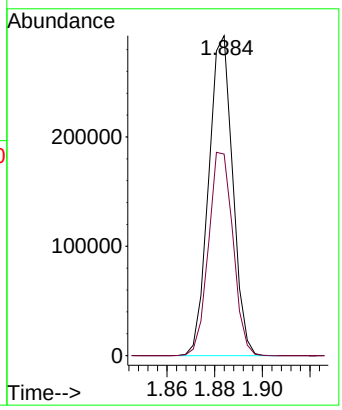




#11
Trichlorofluoromethane
Concen: 10.468 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:101 Resp: 20503

Ion	Ratio	Lower	Upper
101	100		
103	63.0	49.3	73.9



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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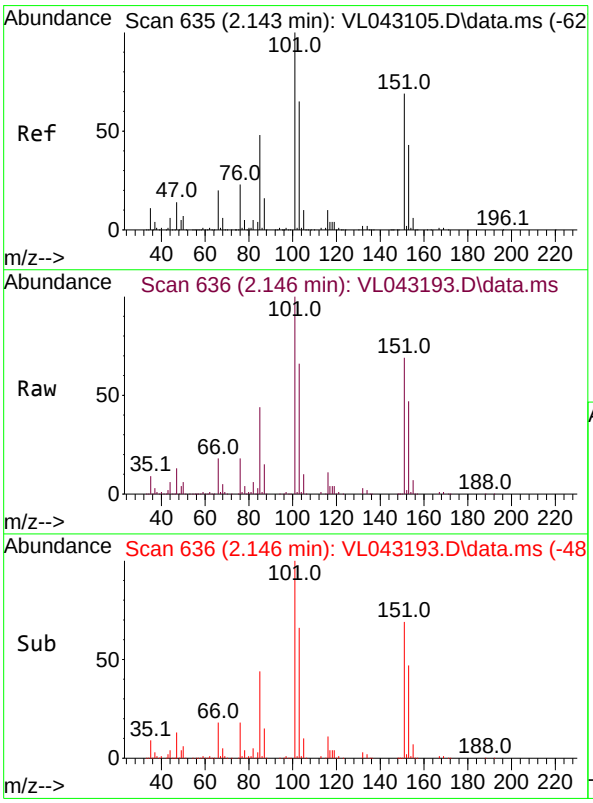
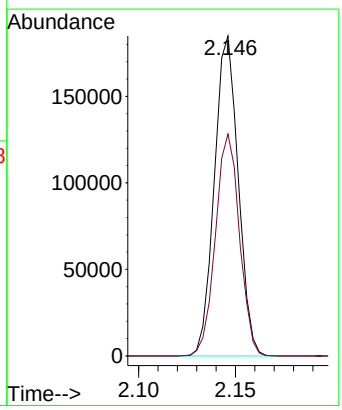
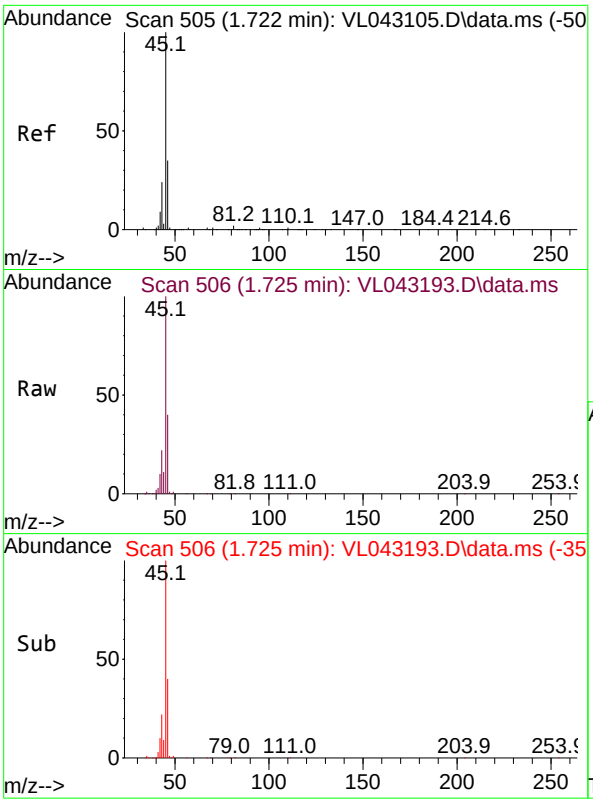


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.056 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:101 Resp: 158562

Ion	Ratio	Lower	Upper
101	100		
151	69.7	54.7	82.1

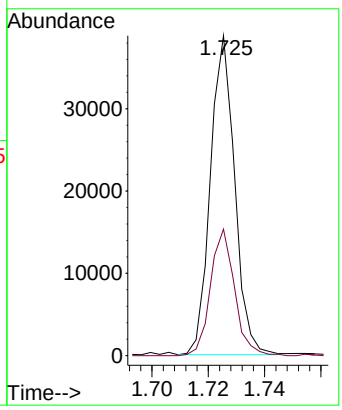




#13
Ethanol
Concen: 6.547 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 45 Resp: 2326

Ion	Ratio	Lower	Upper
45	100		
46	39.5	14.7	58.9



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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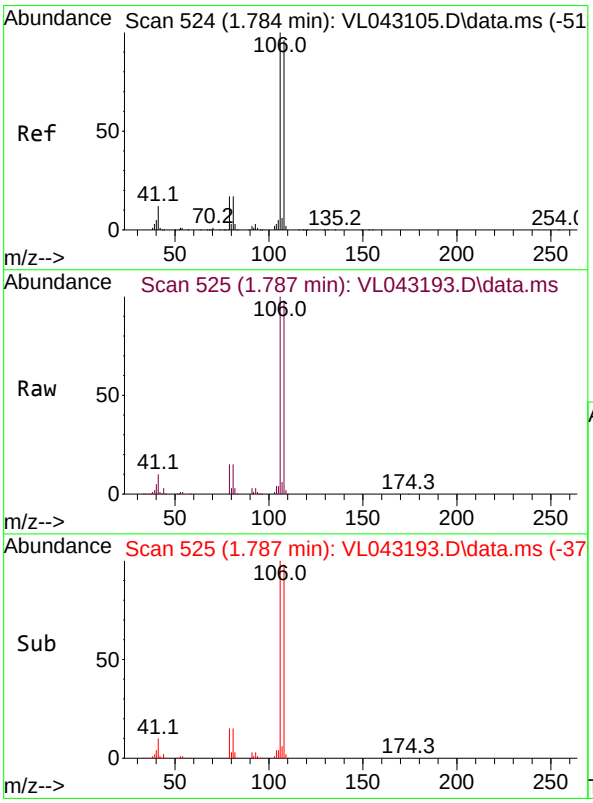
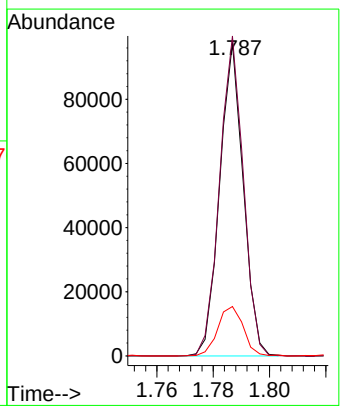
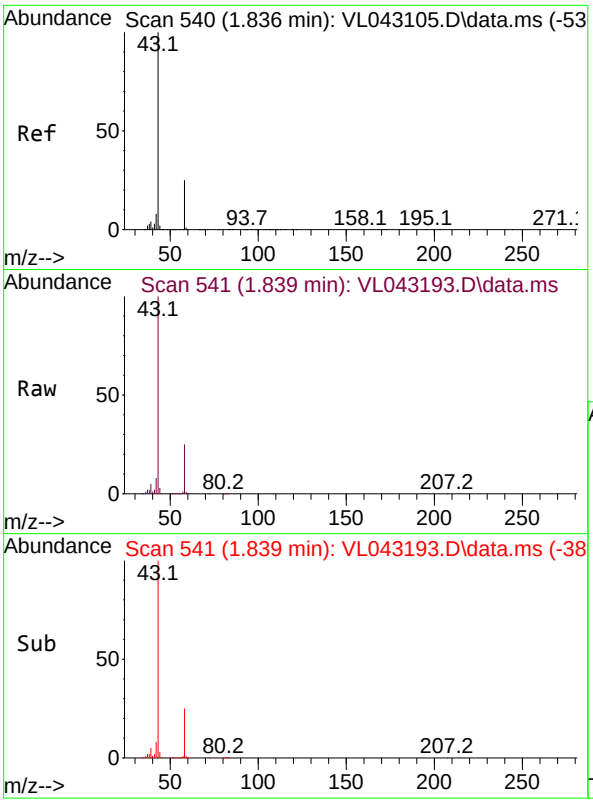


#14
Bromoethene
Concen: 9.692 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:108 Resp: 56772

Ion	Ratio	Lower	Upper
108	100		
106	103.1	84.4	126.6
79	17.2	15.3	22.9

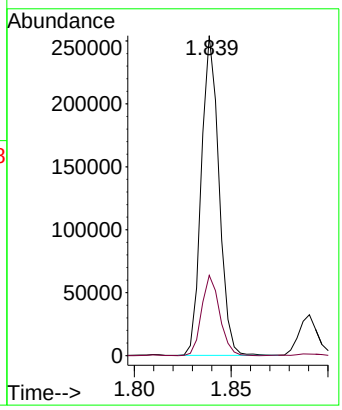




#15
Acetone
Concen: 8.463 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 43 Resp: 160664

Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.8	31.2



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations
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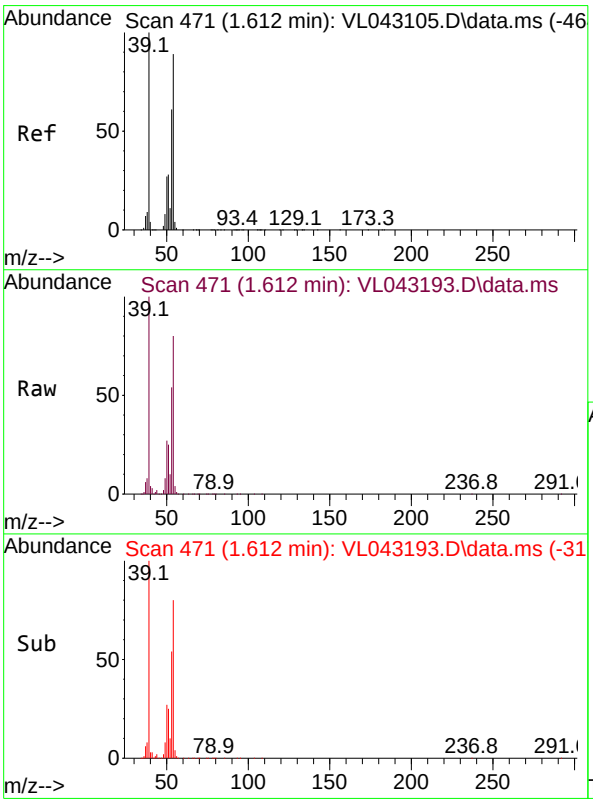
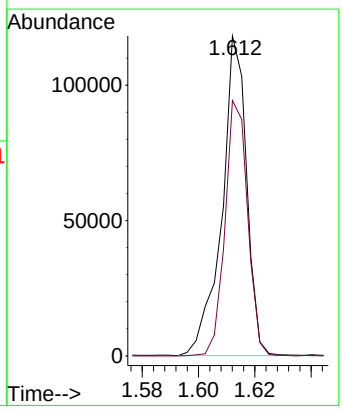
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

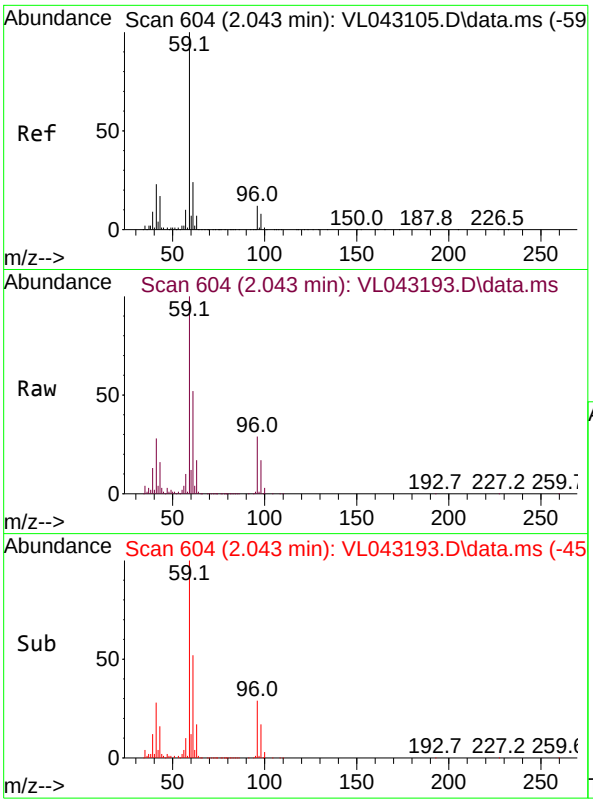


#16
1,3-Butadiene
Concen: 7.974 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 39 Resp: 72141

Ion	Ratio	Lower	Upper
39	100		
54	72.9	59.0	88.4

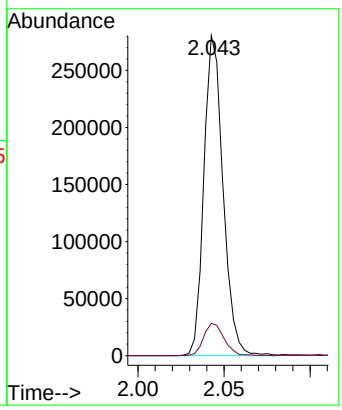




#17
tert-Butyl alcohol
Concen: 8.346 ppbv
RT: 2.043 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 59 Resp: 21748

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.2	12.4



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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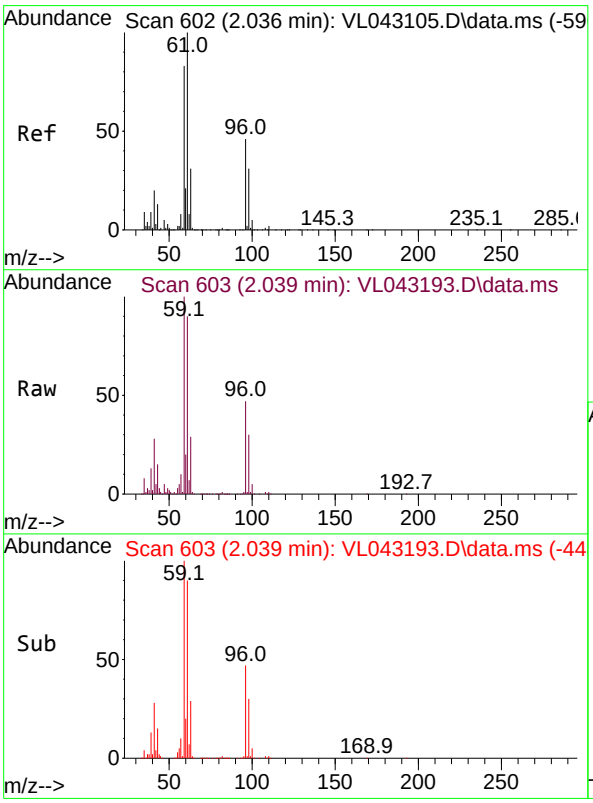
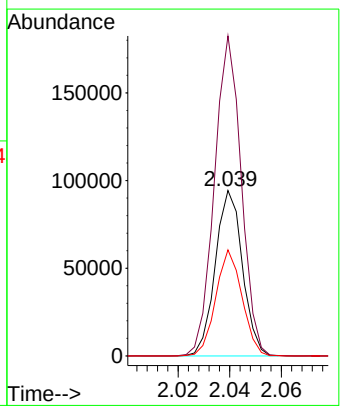
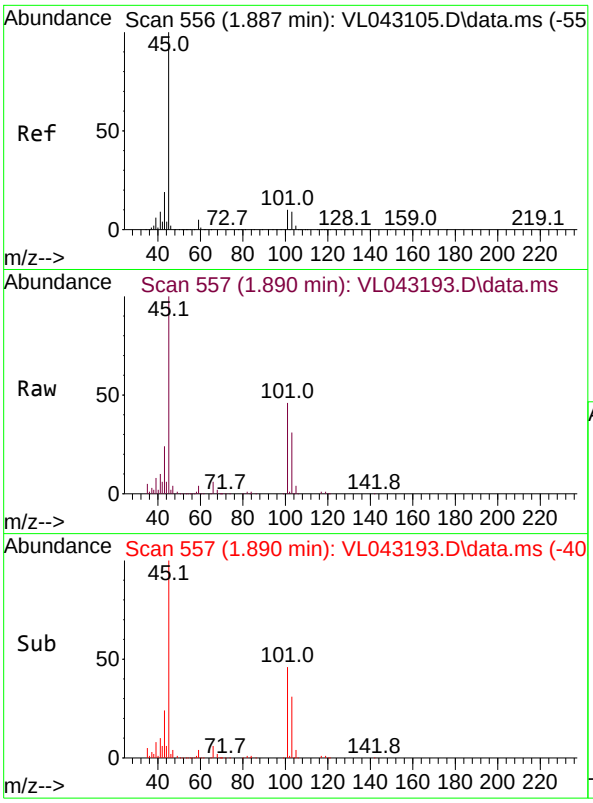


#18
1,1-Dichloroethene
Concen: 10.045 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 96 Resp: 69052

Ion	Ratio	Lower	Upper
96	100		
61	193.3	173.4	260.0
98	64.1	53.2	79.8

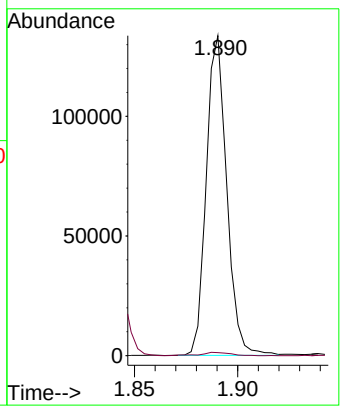




#19
Isopropyl Alcohol
Concen: 7.796 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 45 Resp: 9218

Ion	Ratio	Lower	Upper
45	100		
58	44.8	31.3	46.9



Instrument :
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ClientSampleId :
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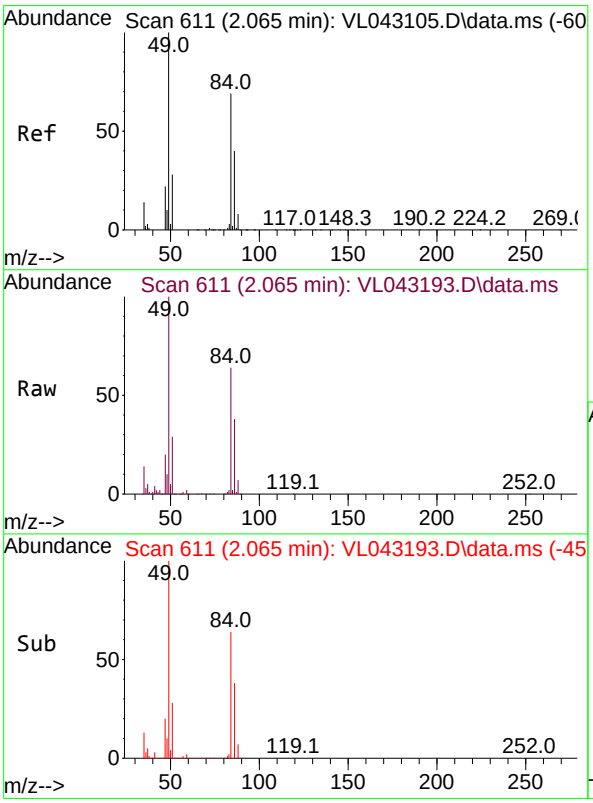
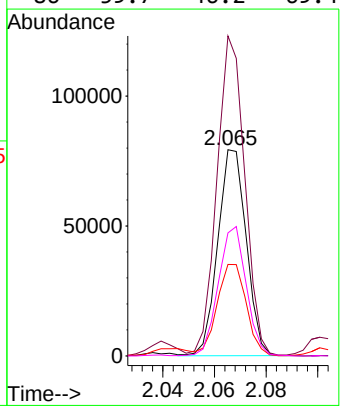
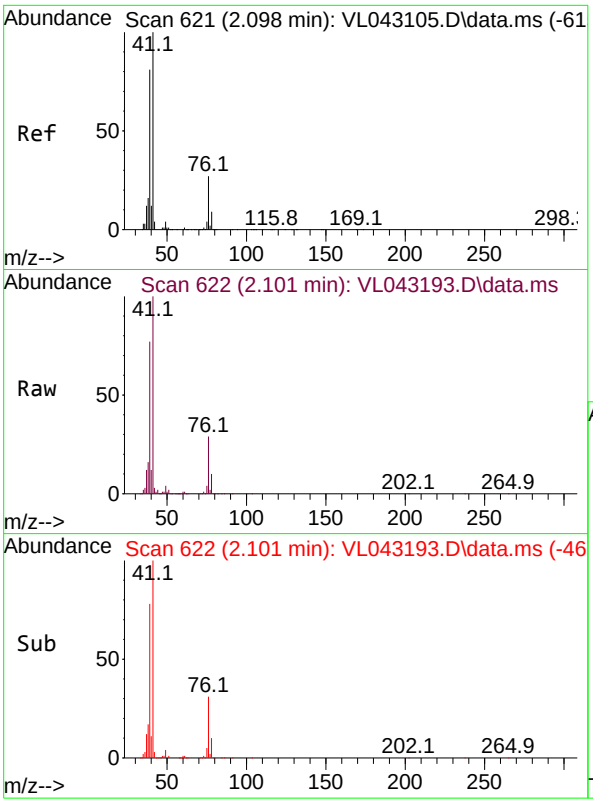


#20
Methylene Chloride
Concen: 8.090 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 84 Resp: 60706

Ion	Ratio	Lower	Upper
84	100		
49	155.1	116.6	175.0
51	44.3	34.8	52.2
86	59.7	46.2	69.4

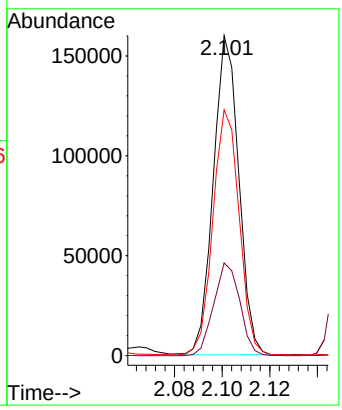




#21
Allyl Chloride
Concen: 8.513 ppbv
RT: 2.101 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 41 Resp: 11908

Ion	Ratio	Lower	Upper
41	100		
76	29.7	21.5	32.3
39	79.4	60.8	91.2



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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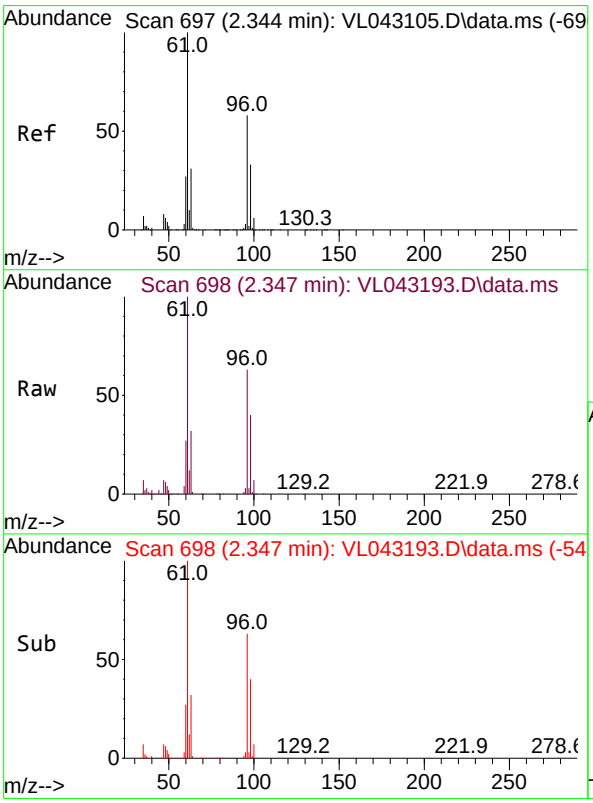
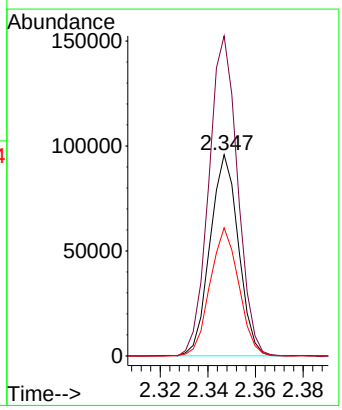
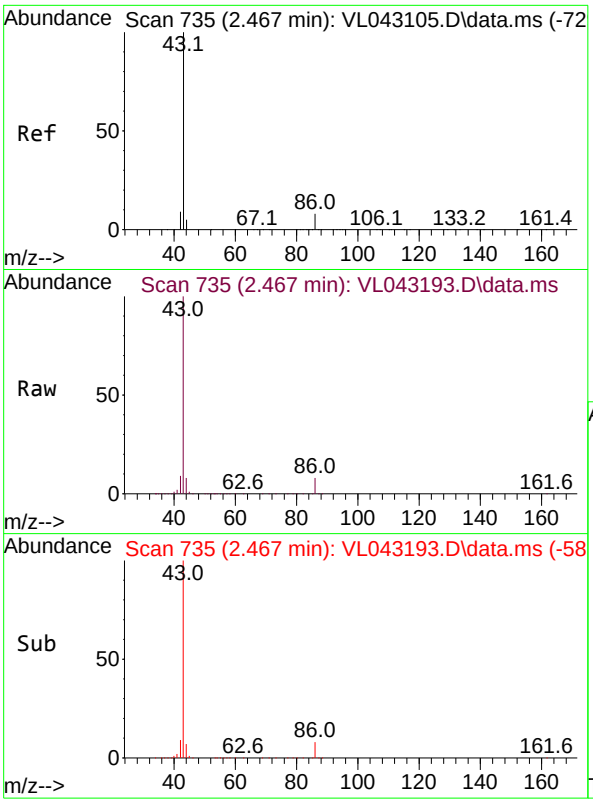


#22
trans-1,2-Dichloroethene
Concen: 9.619 ppbv
RT: 2.347 min Scan# 698
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 96 Resp: 79043

Ion	Ratio	Lower	Upper
96	100		
61	159.2	137.0	205.6
98	63.5	45.5	68.3

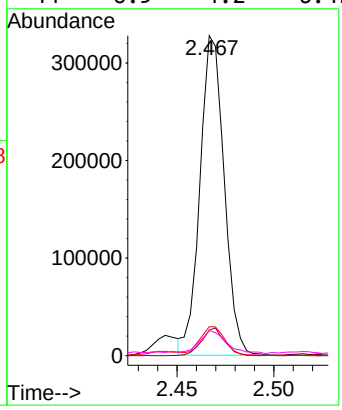




#23
Vinyl Acetate
Concen: 10.251 ppbv
RT: 2.467 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 43 Resp: 28506

Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.2	9.2
42	8.9	7.6	11.4
44	6.9	4.2	6.4#



Instrument :
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ClientSampleId :
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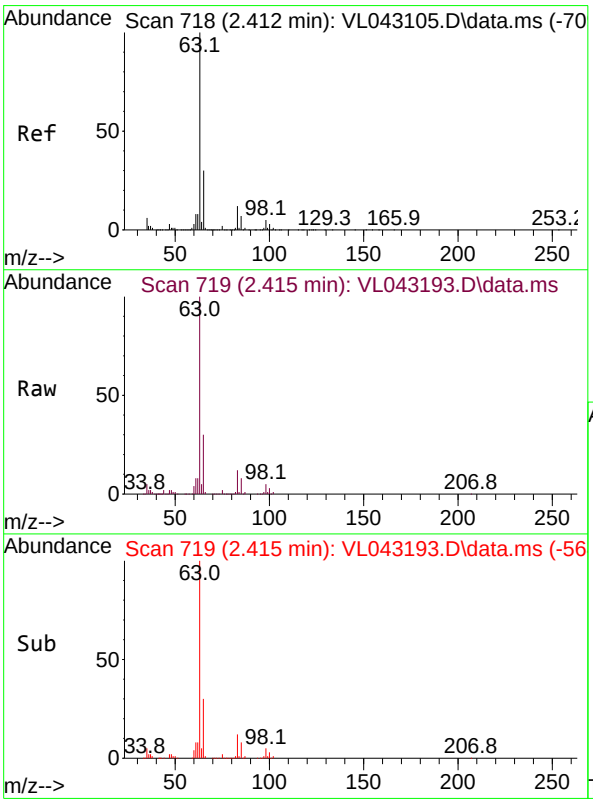
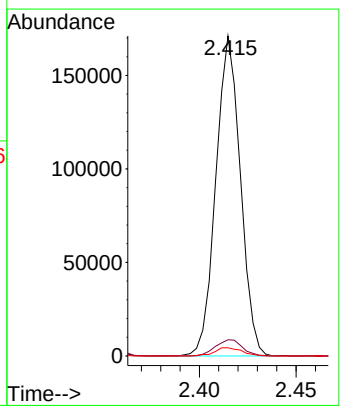
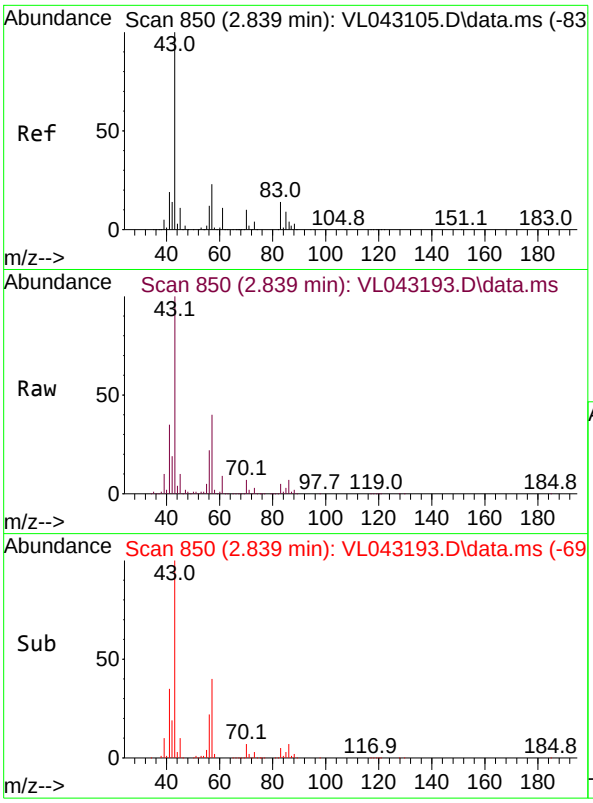


#24
1,1-Dichloroethane
Concen: 9.509 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 63 Resp: 150976

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.6	7.8
100	2.5	1.5	4.4

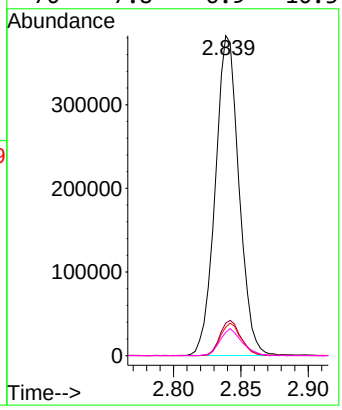




#25
Ethyl Acetate
Concen: 9.924 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 43 Resp: 46719

Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	9.0	7.0	10.6
70	7.8	6.9	10.3



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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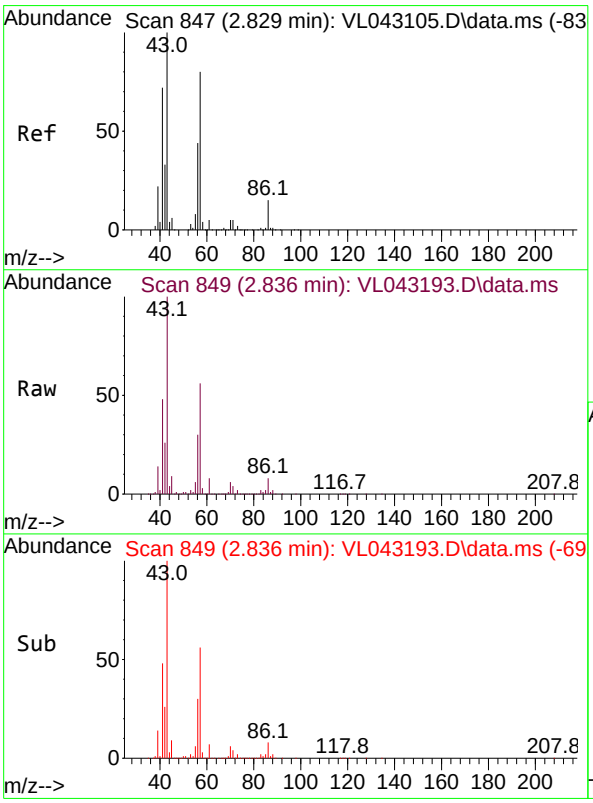
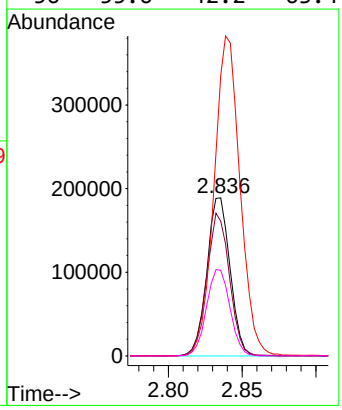
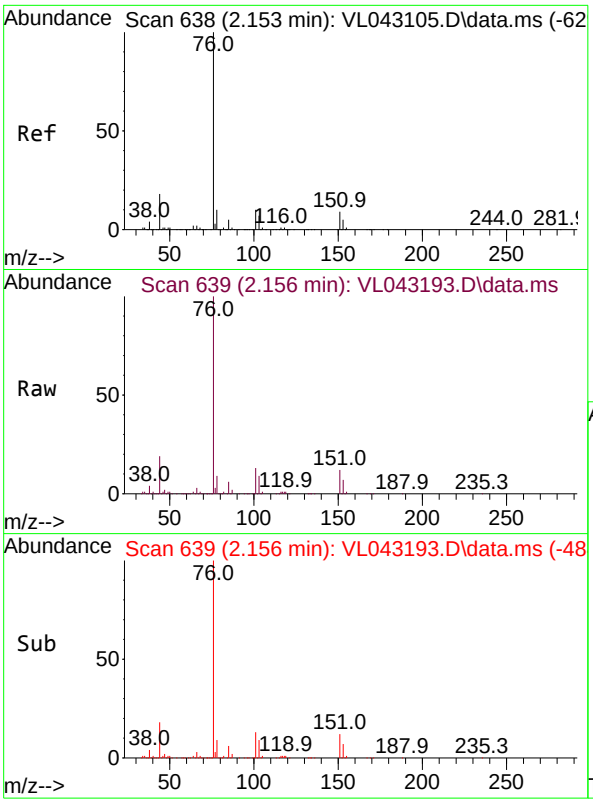


#26
Hexane
Concen: 9.502 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 57 Resp: 206119

Ion	Ratio	Lower	Upper
57	100		
41	89.0	71.4	107.0
43	227.0	178.5	267.7
56	55.6	42.2	63.4

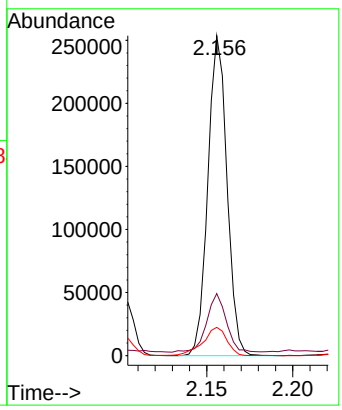




#27
Carbon Disulfide
Concen: 9.849 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 76 Resp: 19576

Ion	Ratio	Lower	Upper
76	100		
44	19.4	16.7	25.1
78	11.1	9.3	13.9



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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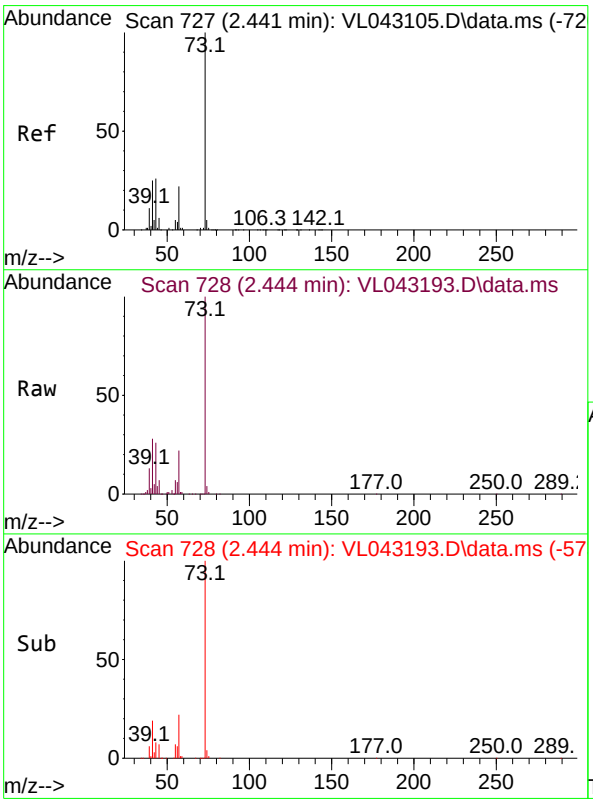
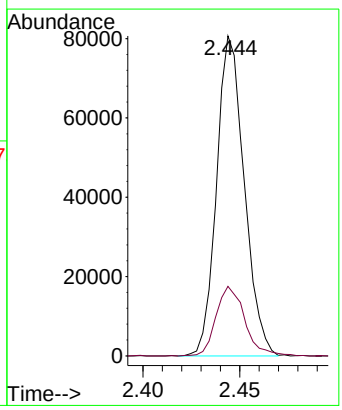
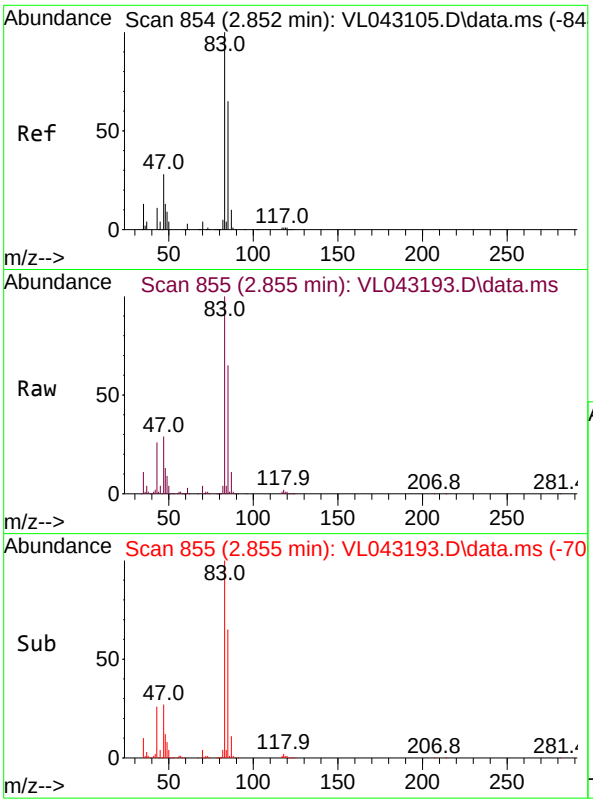


#28
Methyl tert-Butyl Ether
Concen: 8.126 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 73 Resp: 80192

Ion	Ratio	Lower	Upper
73	100		
57	22.6	20.5	30.7

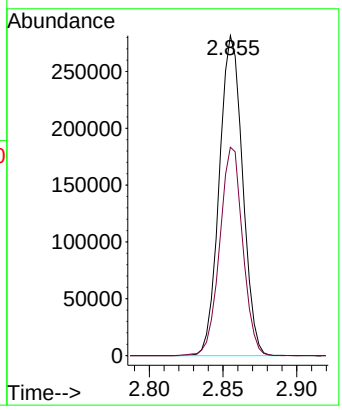




#29
Chloroform
Concen: 9.837 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 83 Resp: 30920

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.8	77.6



Instrument :
MSVOA_L
ClientSampleId :
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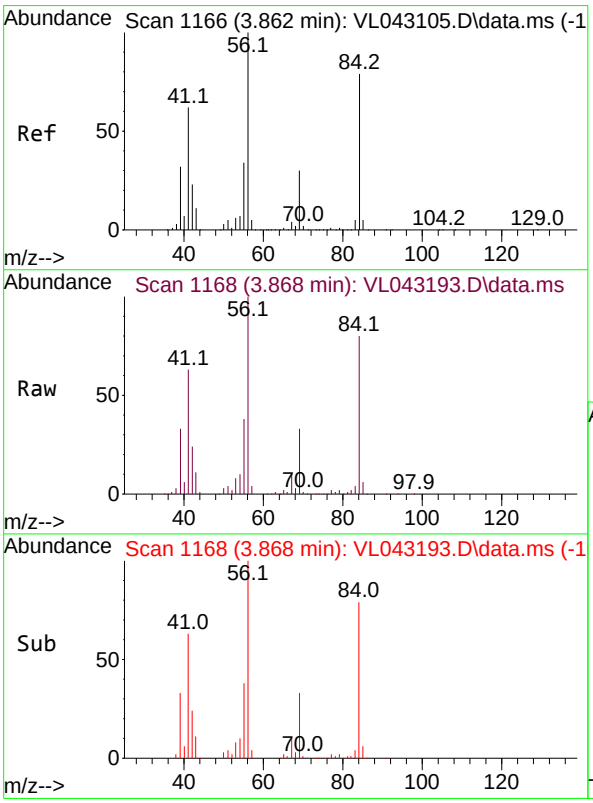
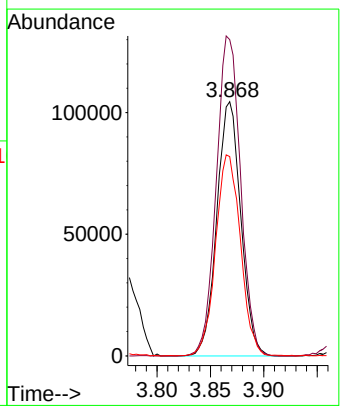
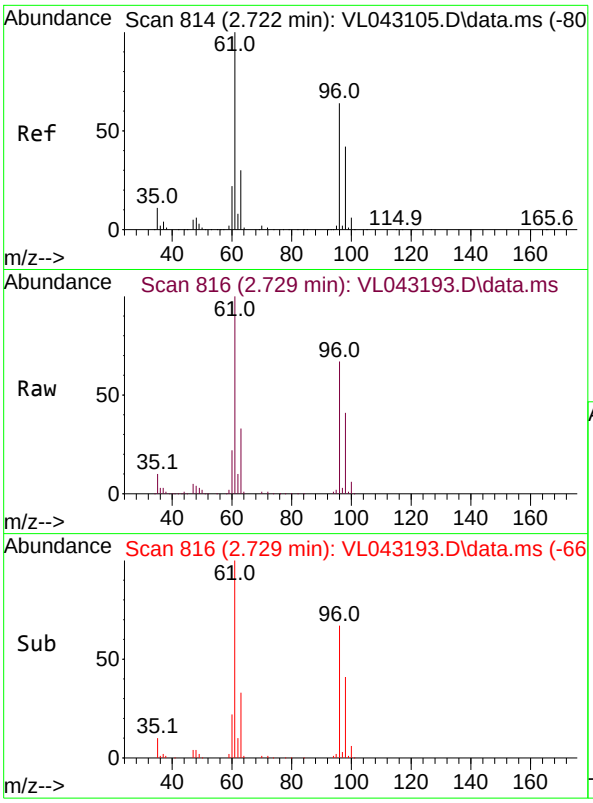


#30
Cyclohexane
Concen: 8.621 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 84 Resp: 163223

Ion	Ratio	Lower	Upper
84	100		
56	127.4	100.9	151.3
41	81.9	63.8	95.6

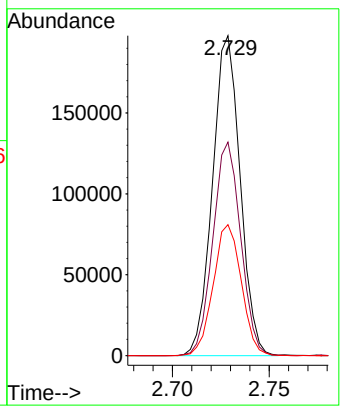




#31
cis-1,2-Dichloroethene
Concen: 9.489 ppbv
RT: 2.729 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 61 Resp: 19656

Ion	Ratio	Lower	Upper
61	100		
96	66.6	51.0	76.6
98	40.9	33.5	50.3



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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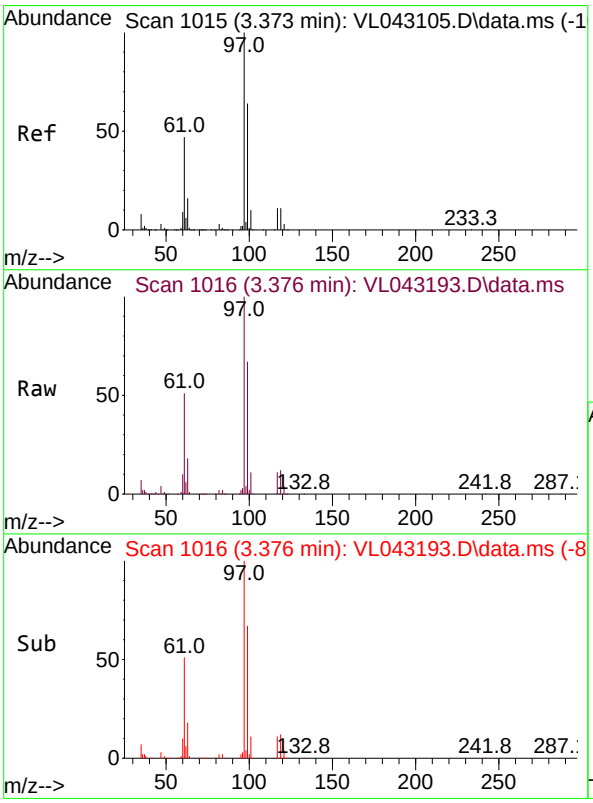
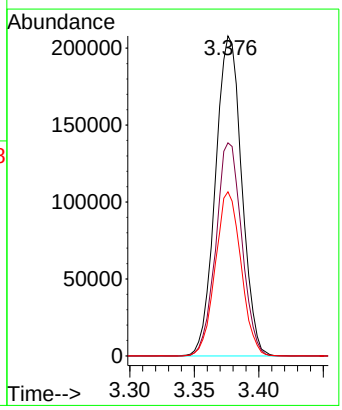
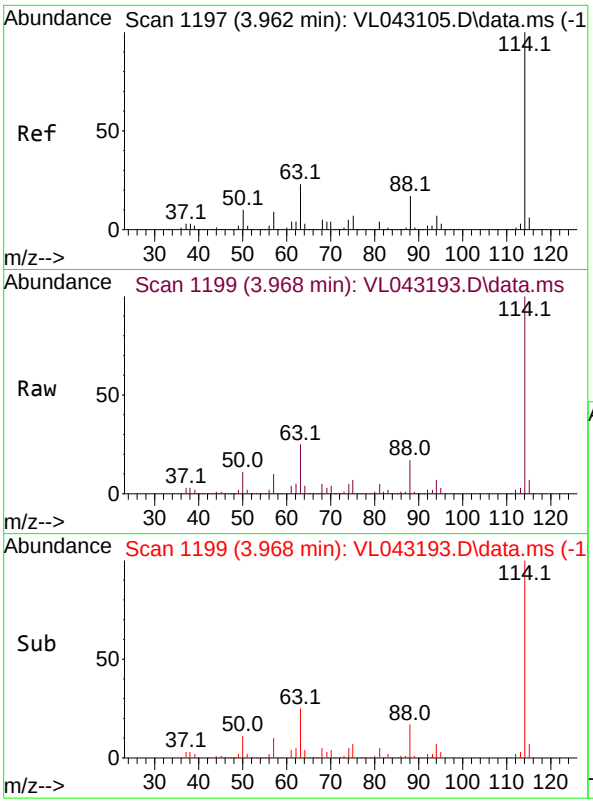


#32
1,1,1-Trichloroethane
Concen: 9.005 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 97 Resp: 294760

Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.3	76.9
61	50.3	38.4	57.6

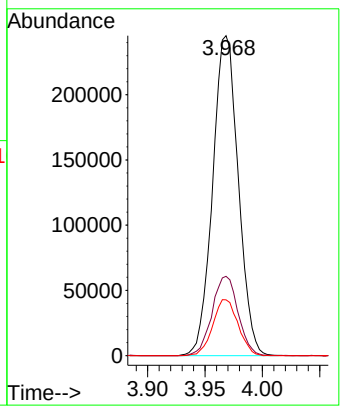




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:114 Resp: 38164

Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.3	28.9
88	17.2	13.9	20.9



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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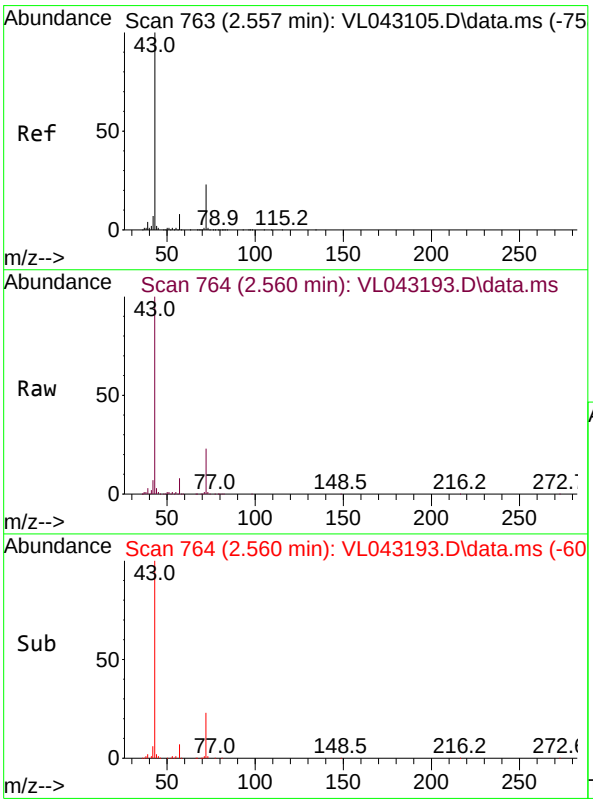
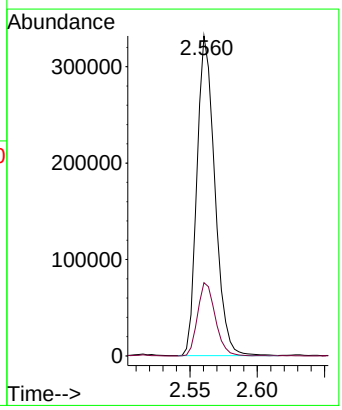
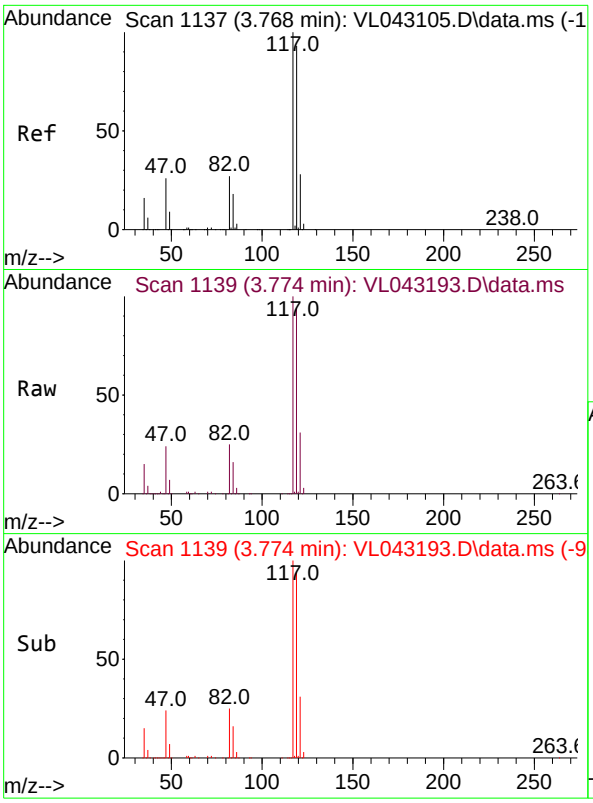


#34
2-Butanone
Concen: 11.953 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 43 Resp: 306642

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.4	27.6

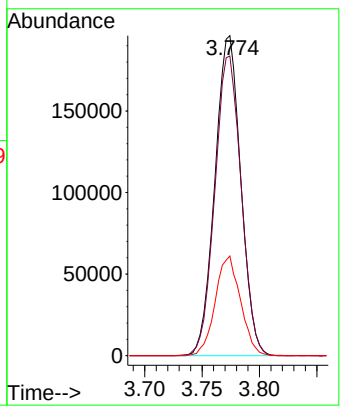




#35
Carbon Tetrachloride
Concen: 11.202 ppbv
RT: 3.774 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:117 Resp: 30737

Ion	Ratio	Lower	Upper
117	100		
119	93.6	74.1	111.1
121	31.1	22.2	33.2



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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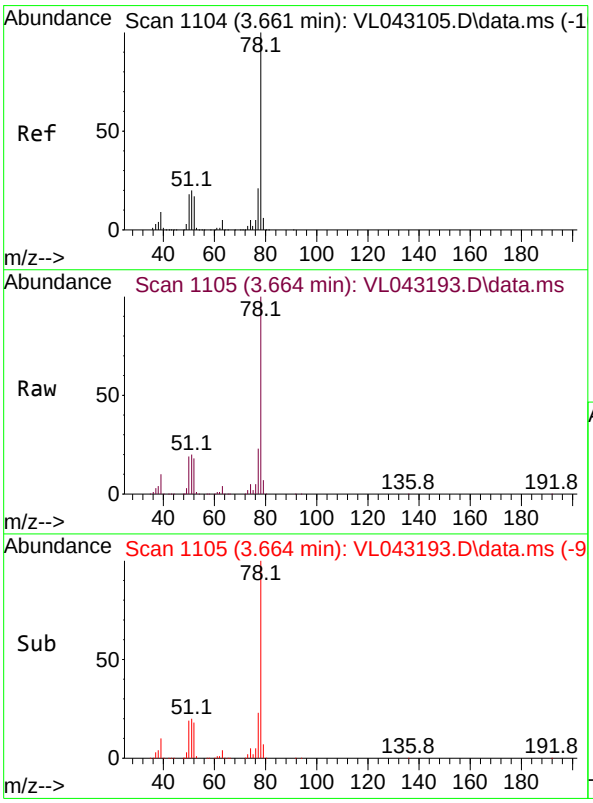
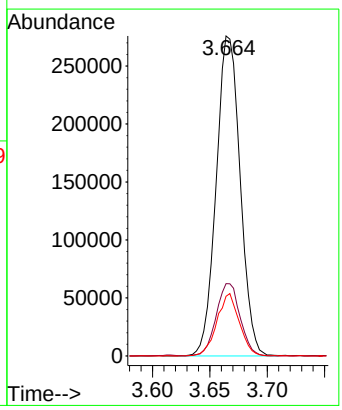
Supervised By :Mahesh Dadoda 11/18/2025

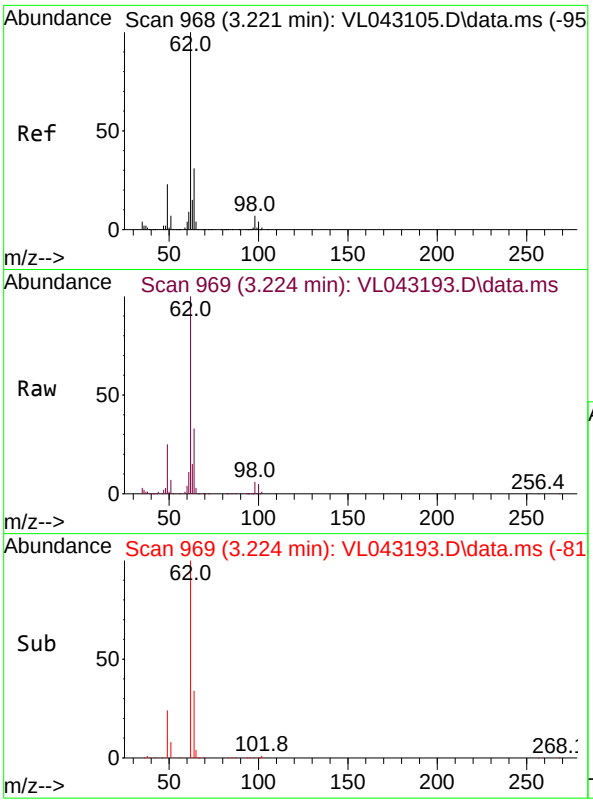


#36
Benzene
Concen: 11.159 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 78 Resp: 401100

Ion	Ratio	Lower	Upper
78	100		
77	22.5	17.0	25.6
50	18.7	14.6	22.0

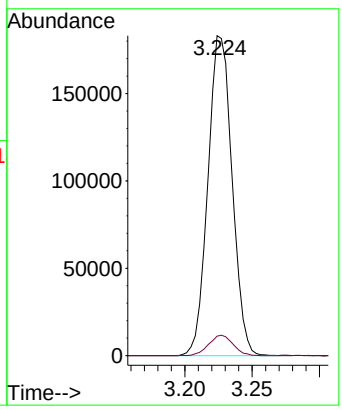




#37
1,2-Dichloroethane
Concen: 11.056 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 62 Resp: 22893

Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.8	8.6



Instrument :
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ClientSampleId :
VL1113ABS01

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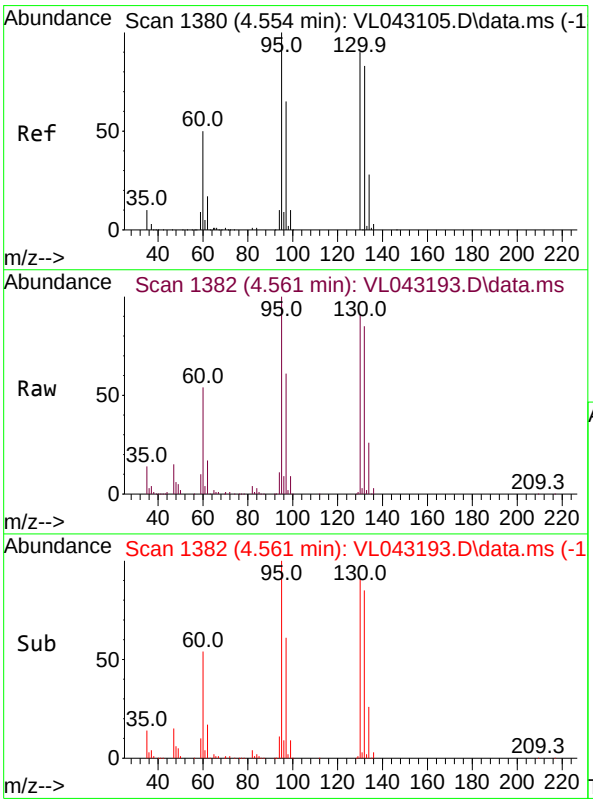
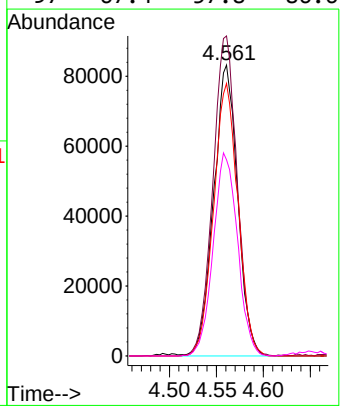
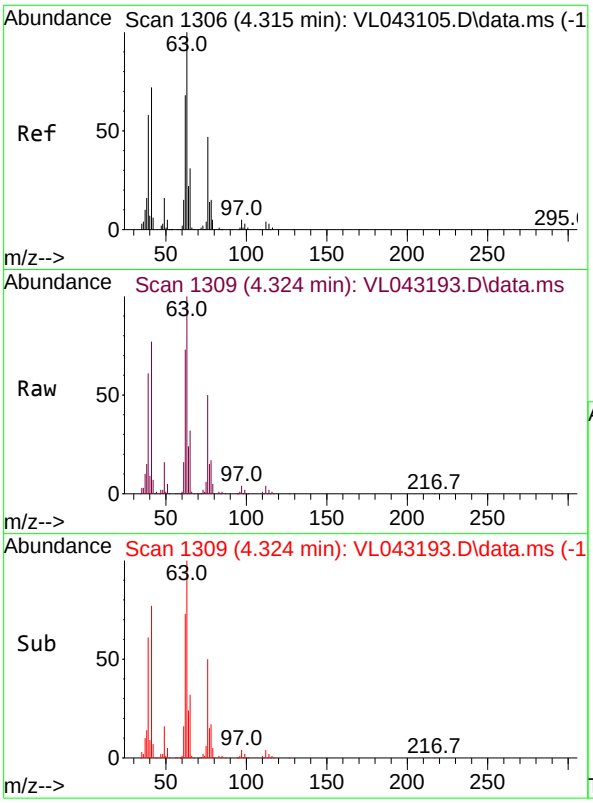


#38
Trichloroethene
Concen: 9.873 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:130 Resp: 148220

Ion	Ratio	Lower	Upper
130	100		
95	110.0	88.6	133.0
132	93.7	73.4	110.0
97	67.4	57.8	86.6

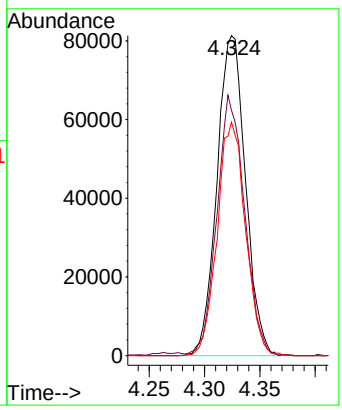




#39
1,2-Dichloropropane
Concen: 11.112 ppbv
RT: 4.324 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 63 Resp: 14601

Ion	Ratio	Lower	Upper
63	100		
41	76.4	58.0	87.0
62	73.0	54.7	82.1



Instrument :
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ClientSampleId :
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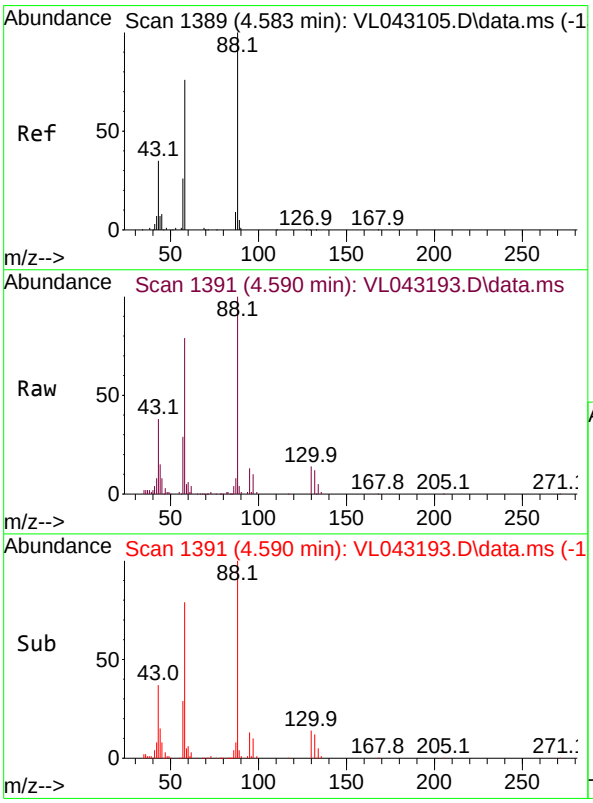
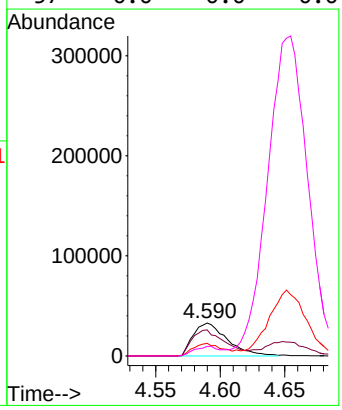
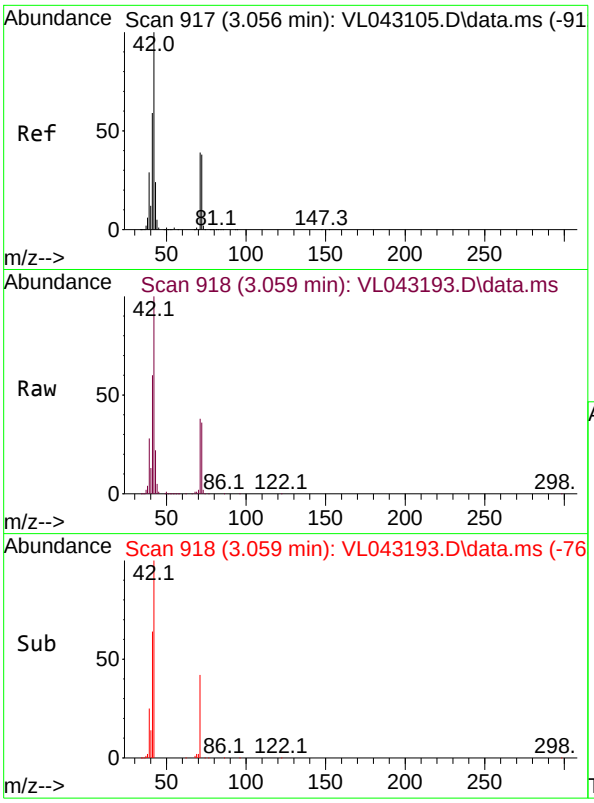


#40
1,4-Dioxane
Concen: 10.227 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 88 Resp: 60137

Ion	Ratio	Lower	Upper
88	100		
58	78.9	61.1	91.7
43	36.1	24.0	36.0#
57	0.0	0.0	0.0

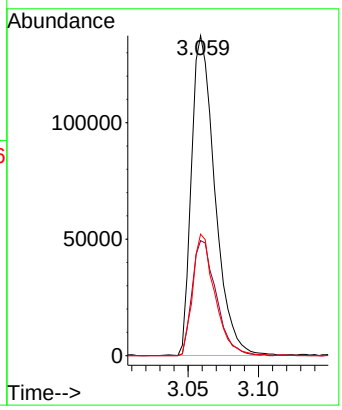




#41
Tetrahydrofuran
Concen: 11.089 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 42 Resp: 15911

Ion	Ratio	Lower	Upper
42	100		
72	36.7	31.3	46.9
71	36.0	30.4	45.6



Instrument :
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ClientSampleId :
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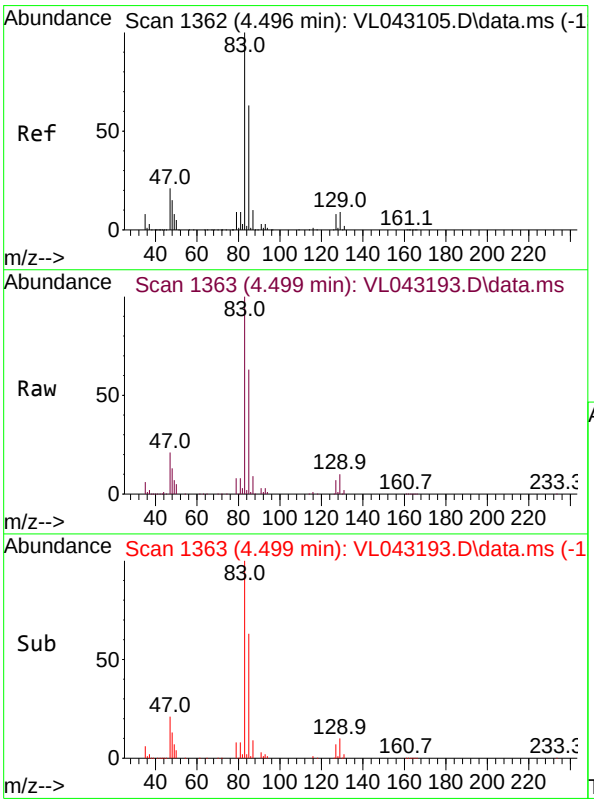
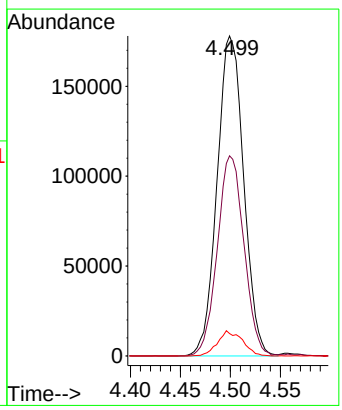
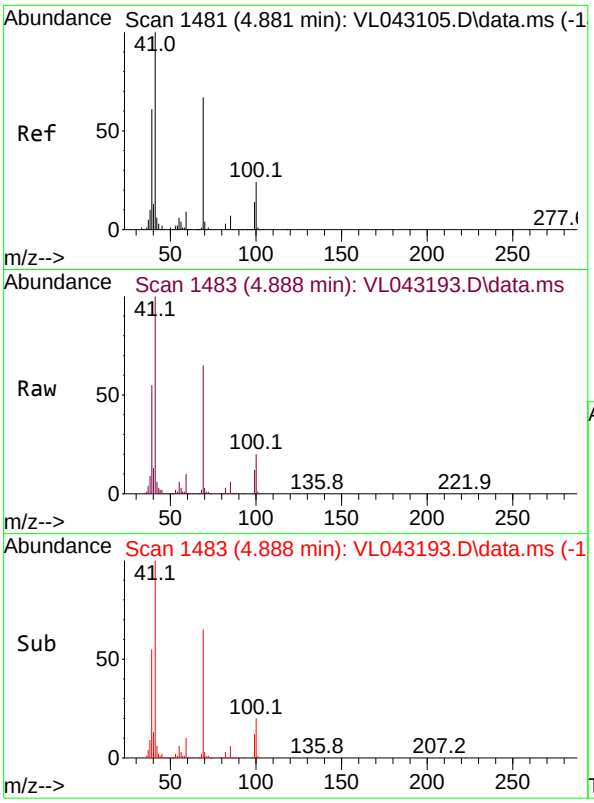


#42
Bromodichloromethane
Concen: 11.502 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 83 Resp: 329652

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.6	75.8
127	7.0	6.3	9.5

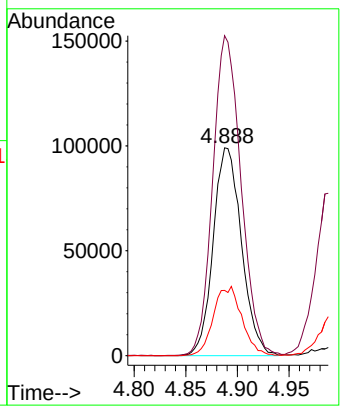




#43
Methyl Methacrylate
Concen: 10.336 ppbv
RT: 4.888 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 69 Resp: 18868

Ion	Ratio	Lower	Upper
69	100		
41	154.0	120.5	180.7
100	33.4	29.0	43.4



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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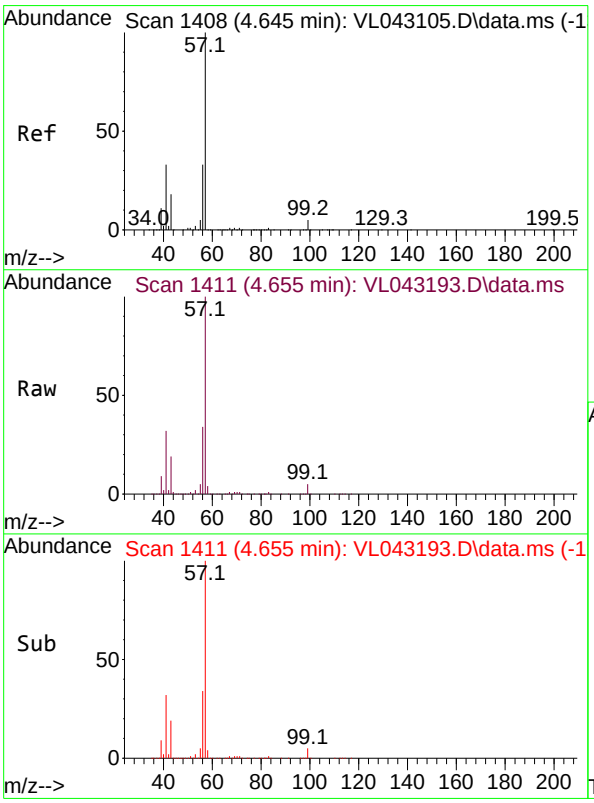
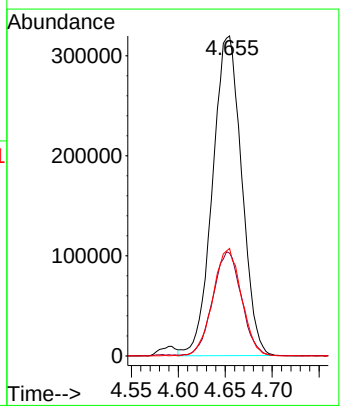
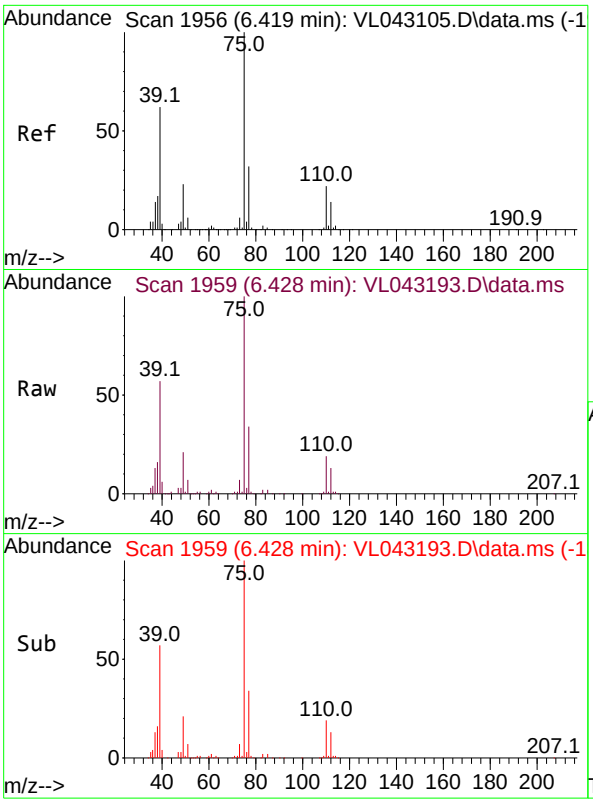


#44
2,2,4-Trimethylpentane
Concen: 11.408 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 57 Resp: 691827

Ion	Ratio	Lower	Upper
57	100		
41	32.6	26.3	39.5
56	33.0	25.9	38.9

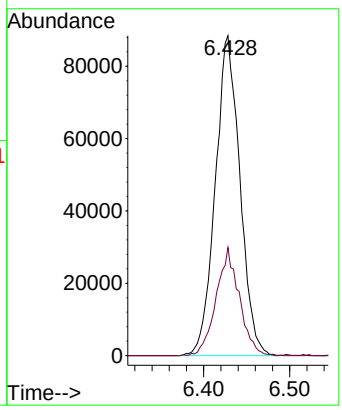




#45
t-1,3-Dichloropropene
Concen: 9.588 ppbv
RT: 6.428 min Scan# 19
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 75 Resp: 17566

Ion	Ratio	Lower	Upper
75	100		
77	33.8	25.4	38.2



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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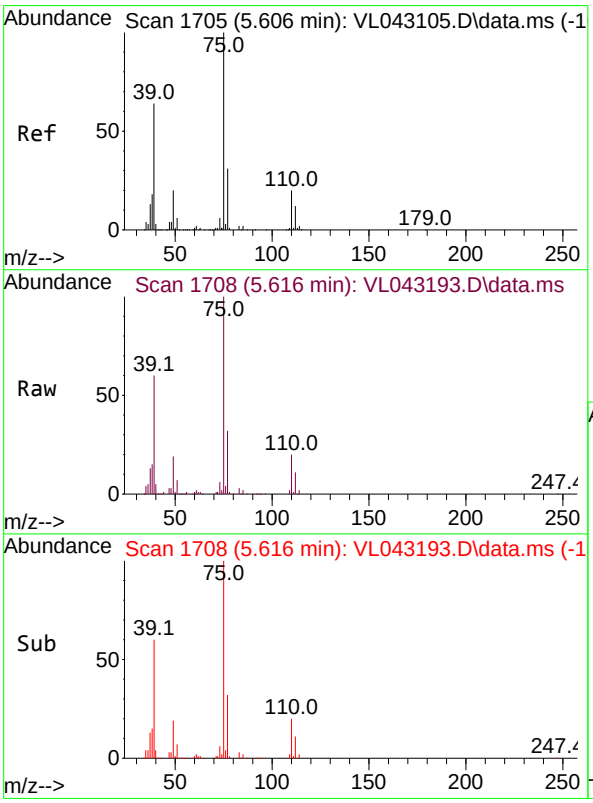
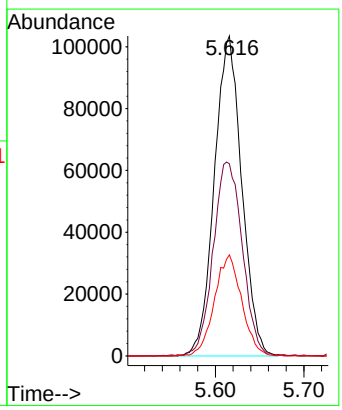
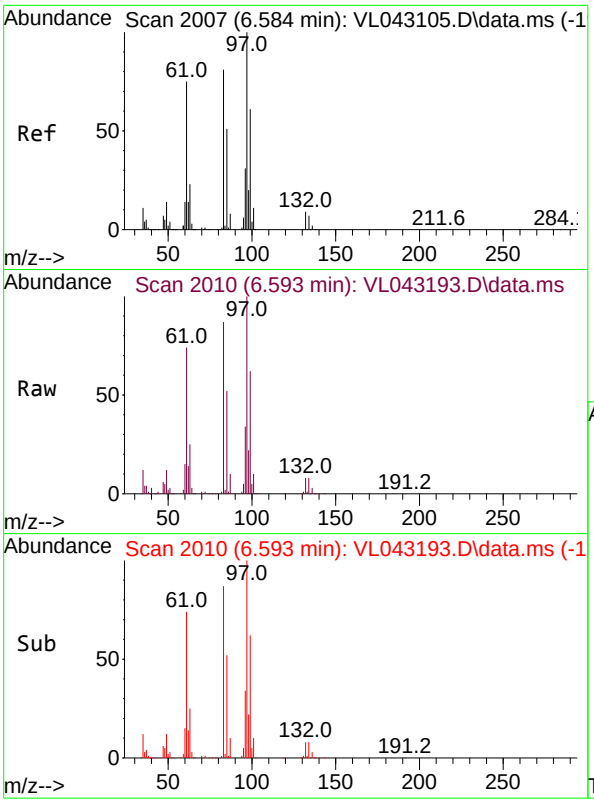


#46
cis-1,3-Dichloropropene
Concen: 10.153 ppbv
RT: 5.616 min Scan# 1708
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 75 Resp: 222196

Ion	Ratio	Lower	Upper
75	100		
39	59.6	51.0	76.6
77	31.5	25.0	37.4

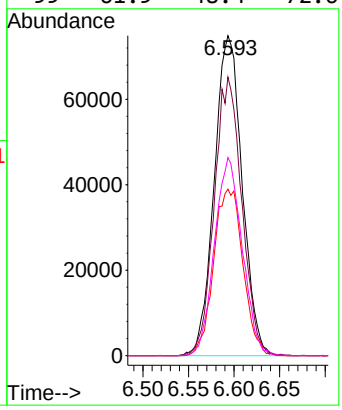




#47
1,1,2-Trichloroethane
Concen: 11.230 ppbv
RT: 6.593 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 97 Resp: 15935

Ion	Ratio	Lower	Upper
97	100		
83	87.0	64.6	96.8
85	52.1	40.6	60.8
99	61.9	48.4	72.6



Instrument :
MSVOA_L
ClientSampleId :
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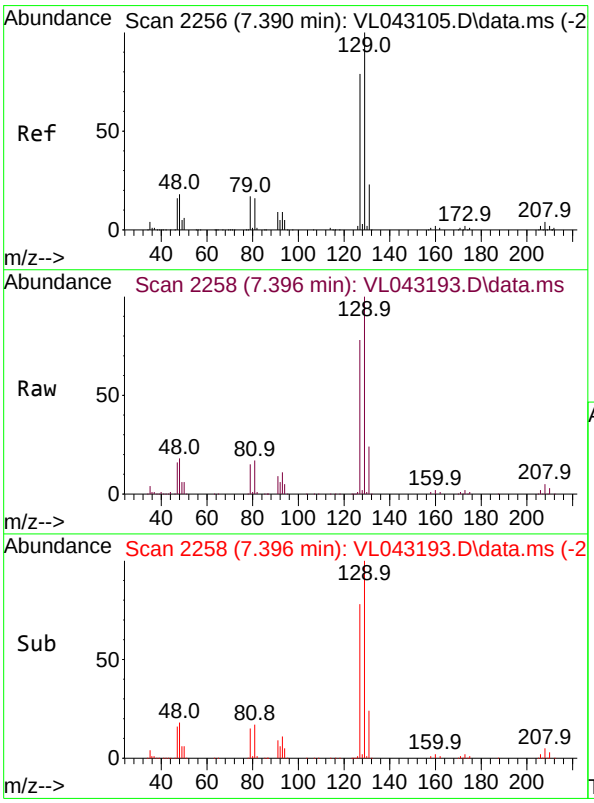
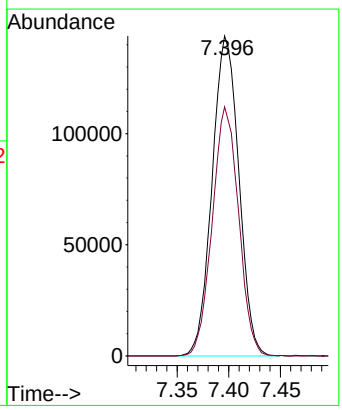
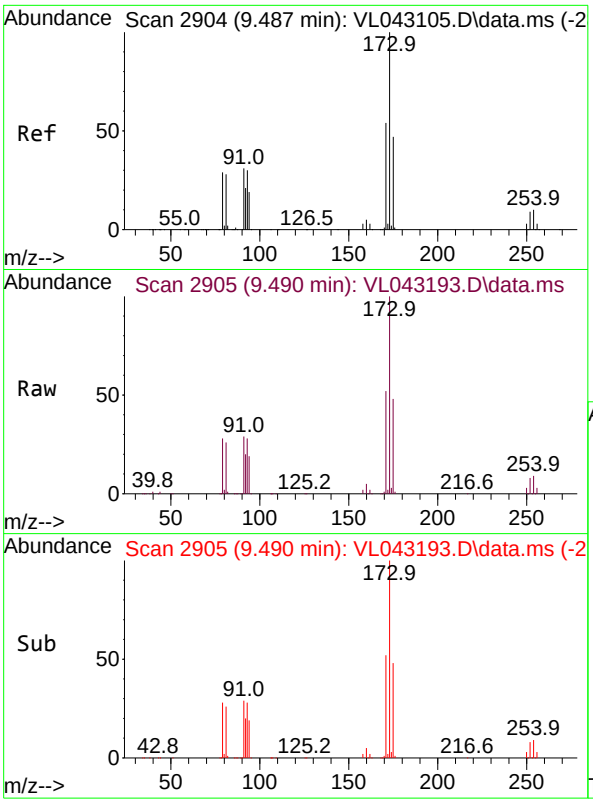


#48
Dibromochloromethane
Concen: 10.903 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:129 Resp: 258701

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.3	117.9

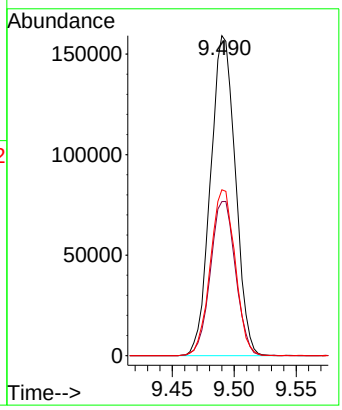




#49
Bromoform
Concen: 11.491 ppbv
RT: 9.490 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:173 Resp: 221619

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.8	58.2
171	51.6	41.7	62.5



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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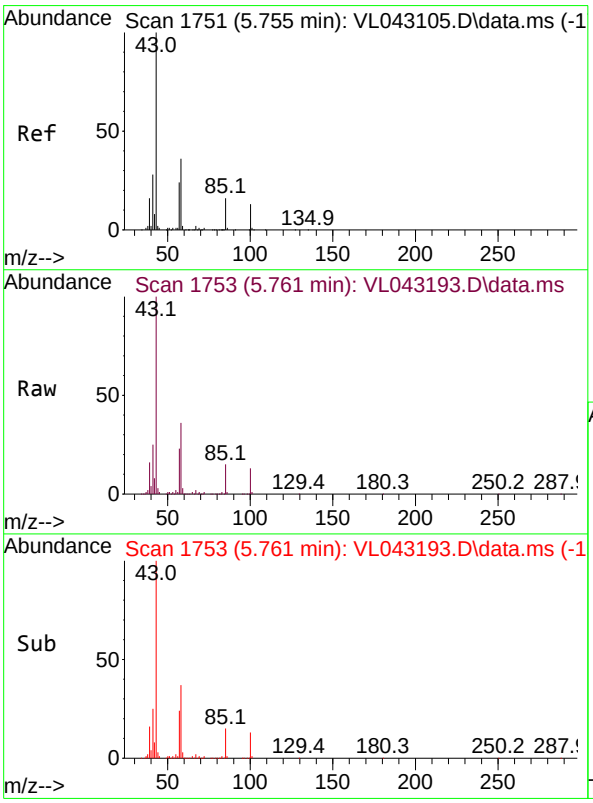
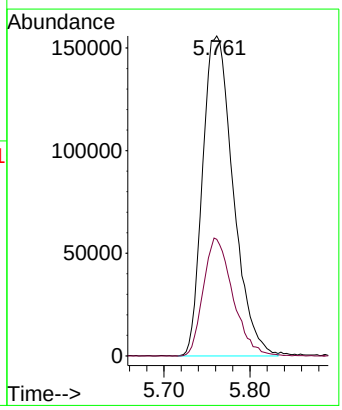
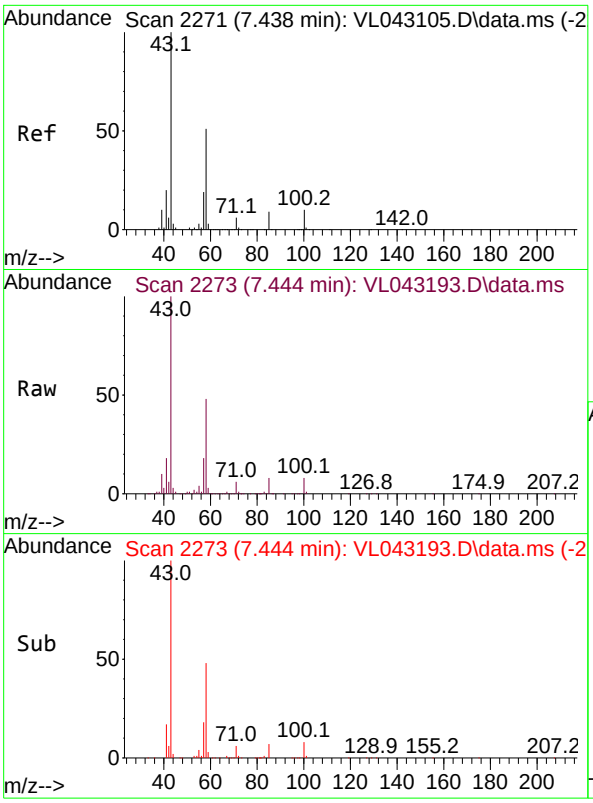


#50
4-Methyl-2-Pentanone
Concen: 10.877 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 43 Resp: 385105

Ion	Ratio	Lower	Upper
43	100		
58	35.6	29.1	43.7

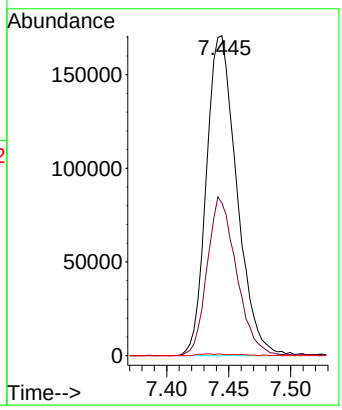




#51
2-Hexanone
Concen: 10.918 ppbv
RT: 7.444 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 43 Resp: 28993

Ion	Ratio	Lower	Upper
43	100		
58	48.2	40.4	60.6
98	0.7	0.1	0.1



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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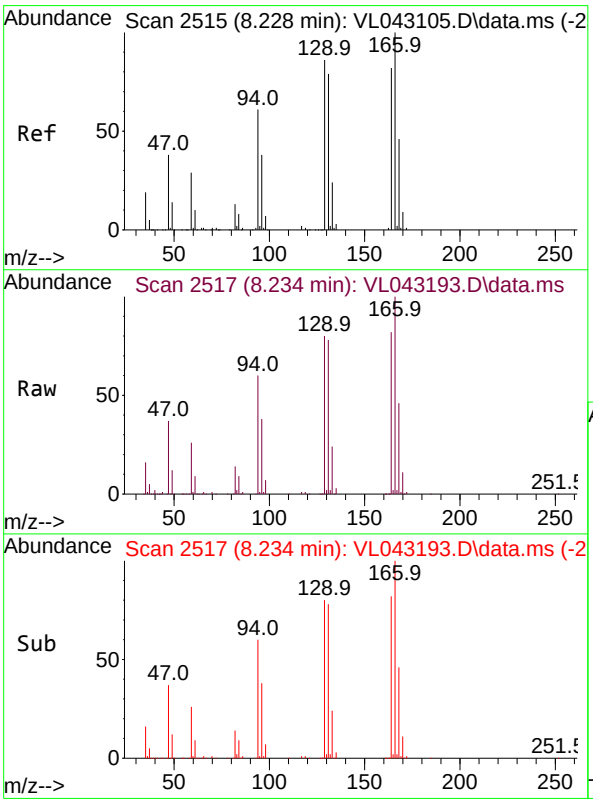
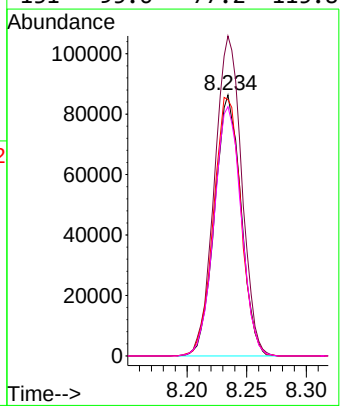
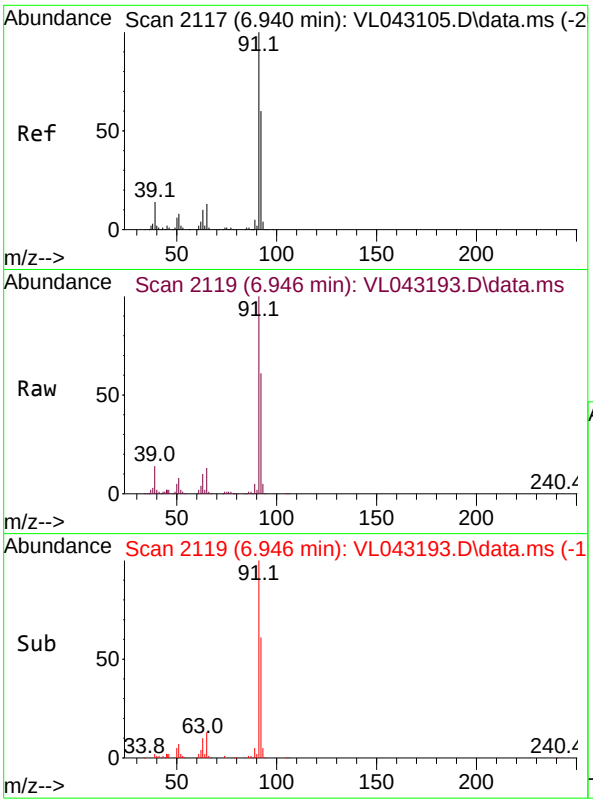


#52
Tetrachloroethene
Concen: 10.279 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:164 Resp: 133238

Ion	Ratio	Lower	Upper
164	100		
166	122.7	97.6	146.4
129	98.3	84.5	126.7
131	95.6	77.2	115.8

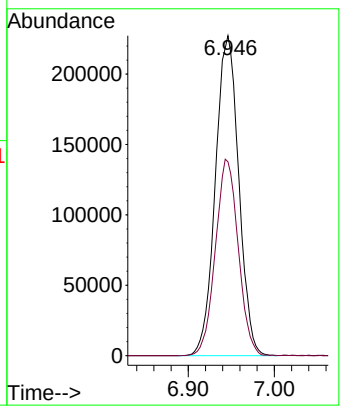




#53
Toluene
Concen: 10.051 ppbv
RT: 6.946 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 91 Resp: 42876

Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.8	73.2



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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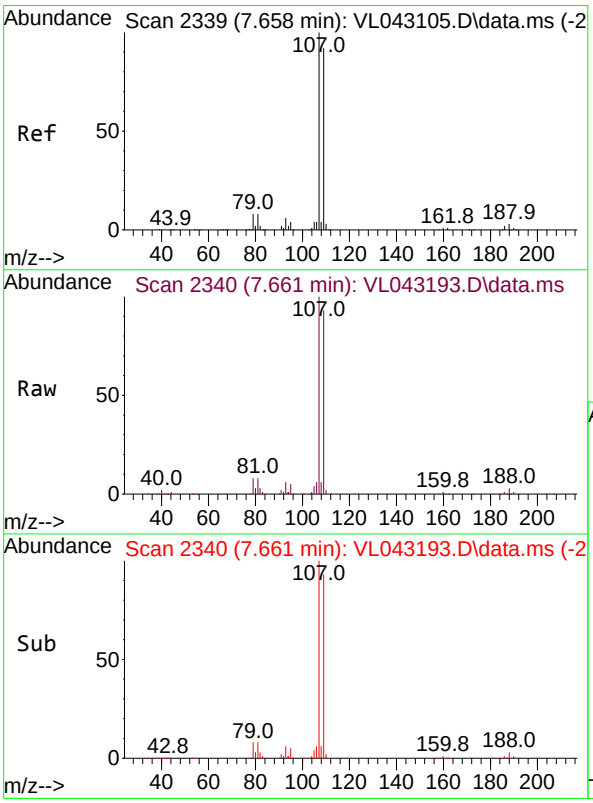
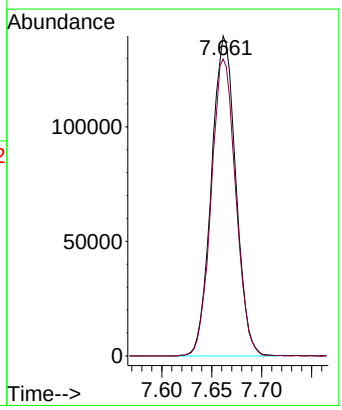
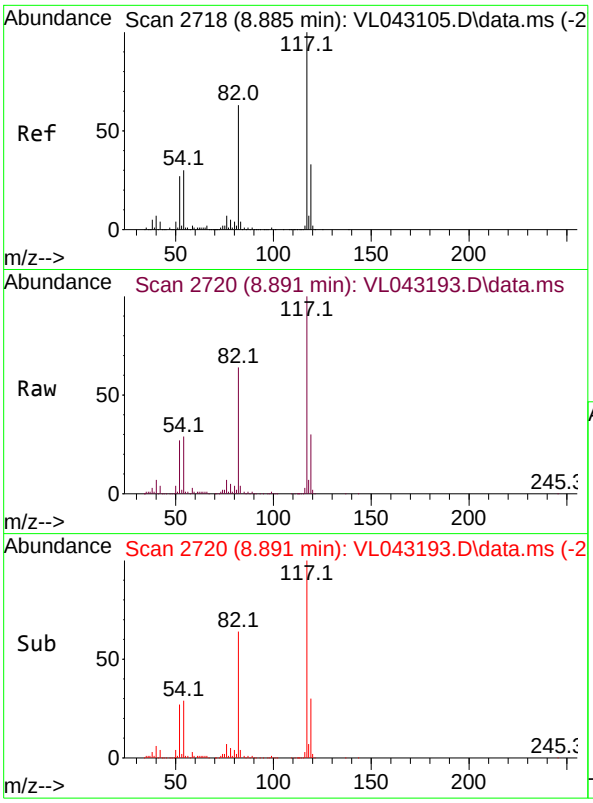


#54
1,2-Dibromoethane
Concen: 10.633 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:107 Resp: 236351

Ion	Ratio	Lower	Upper
107	100		
109	92.8	73.4	110.2

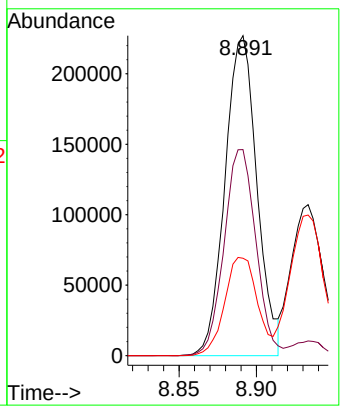




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:117 Resp: 32634

Ion	Ratio	Lower	Upper
117	100		
82	68.6	53.8	80.8
119	32.9	25.4	38.0



Instrument :
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ClientSampleId :
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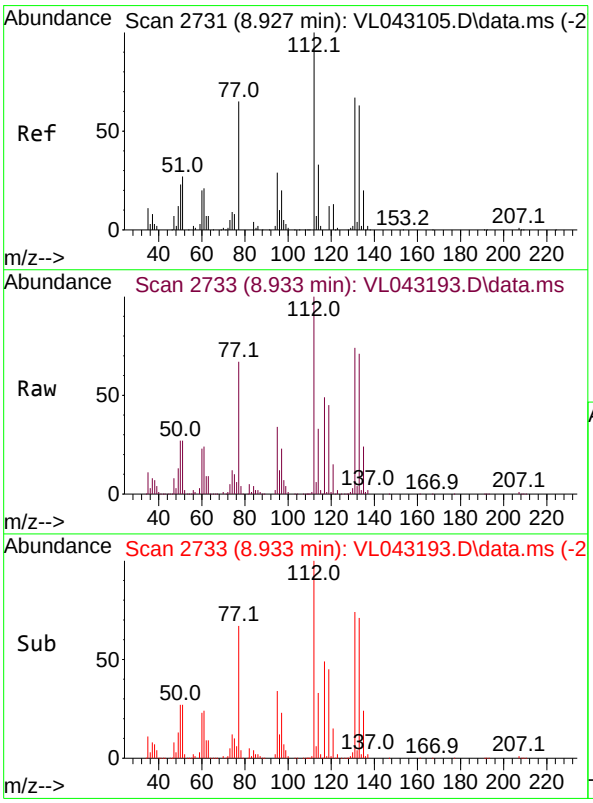
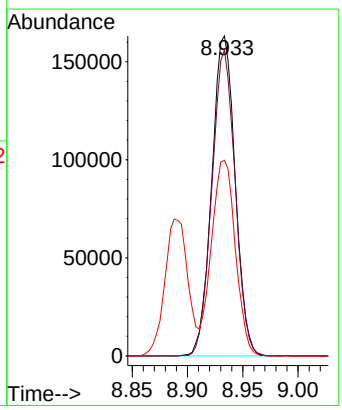
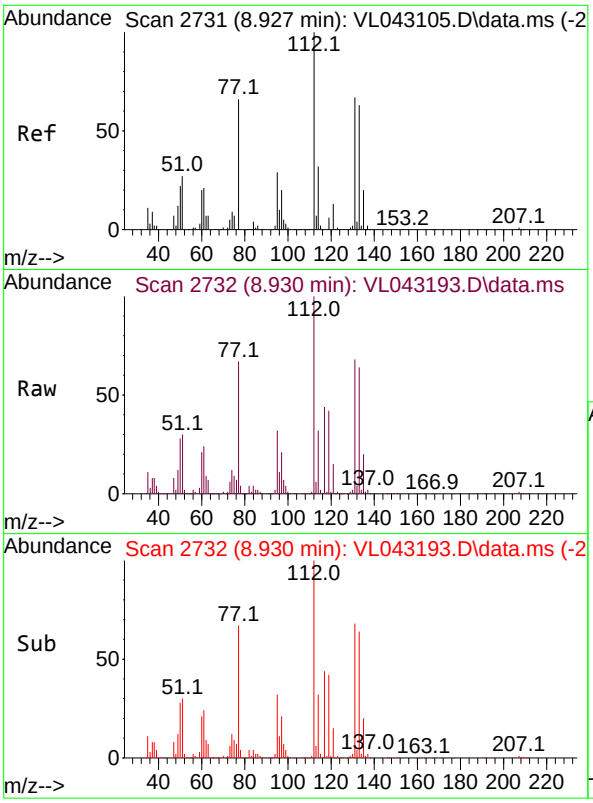


#56
1,1,1,2-Tetrachloroethane
Concen: 11.670 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:131 Resp: 240077

Ion	Ratio	Lower	Upper
131	100		
133	94.8	75.7	113.5
119	63.4	50.6	76.0

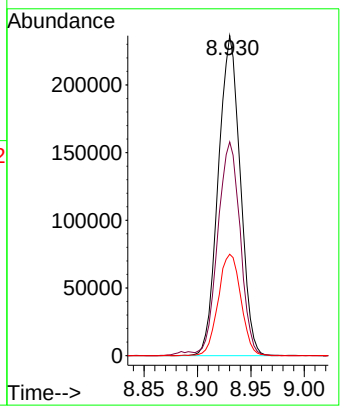




#57
Chlorobenzene
Concen: 11.058 ppbv
RT: 8.930 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:112 Resp: 33760

Ion	Ratio	Lower	Upper
112	100		
77	66.7	53.3	79.9
114	31.7	29.3	35.8



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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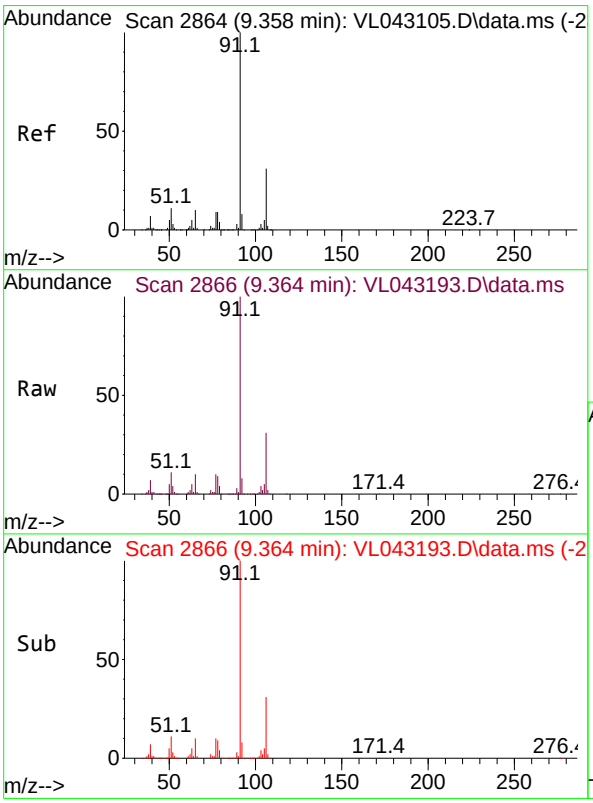
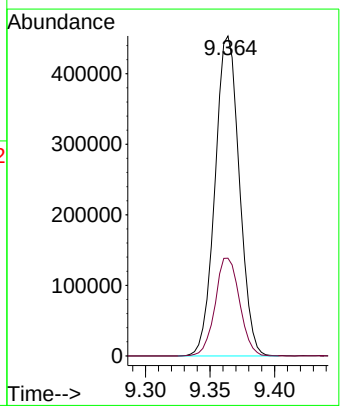
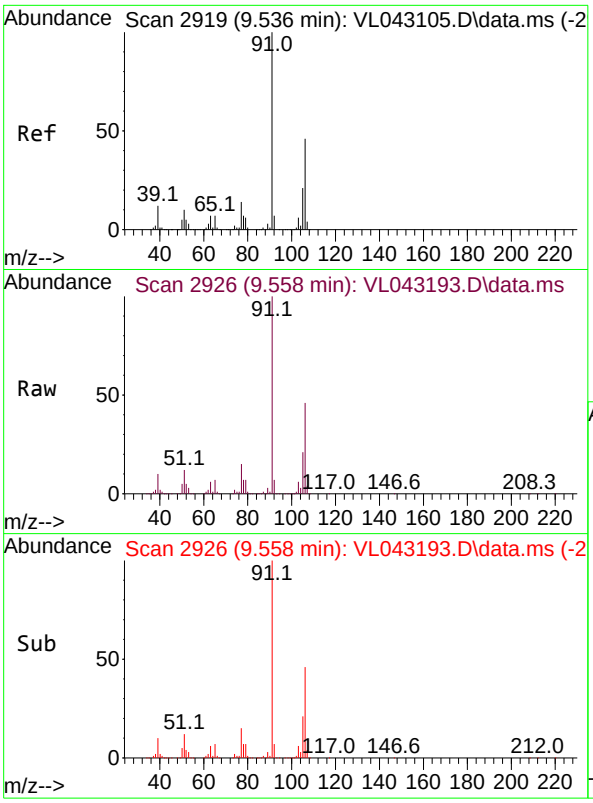


#58
Ethyl Benzene
Concen: 10.613 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 91 Resp: 594417

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.8	37.2





#59
m/p-Xylene
Concen: 22.144 ppbv m
RT: 9.558 min Scan# 29
Delta R.T. 0.022 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 91 Resp: 989218

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

Instrument :
MSVOA_L
ClientSampleId :
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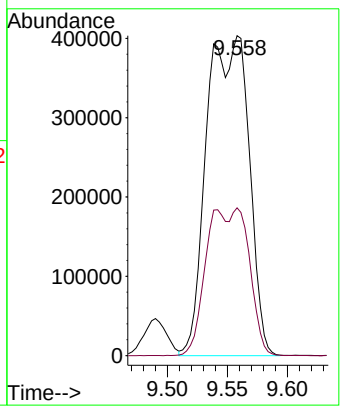
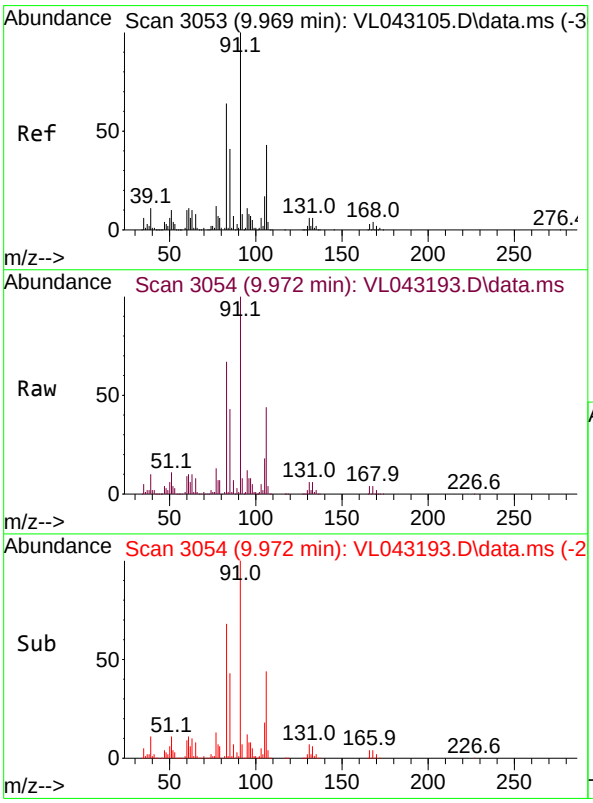
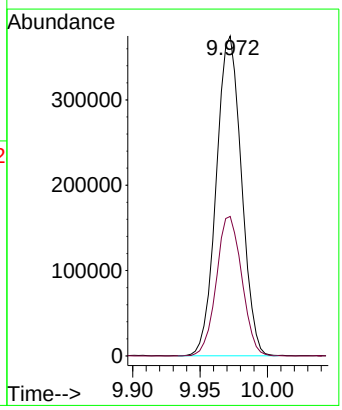


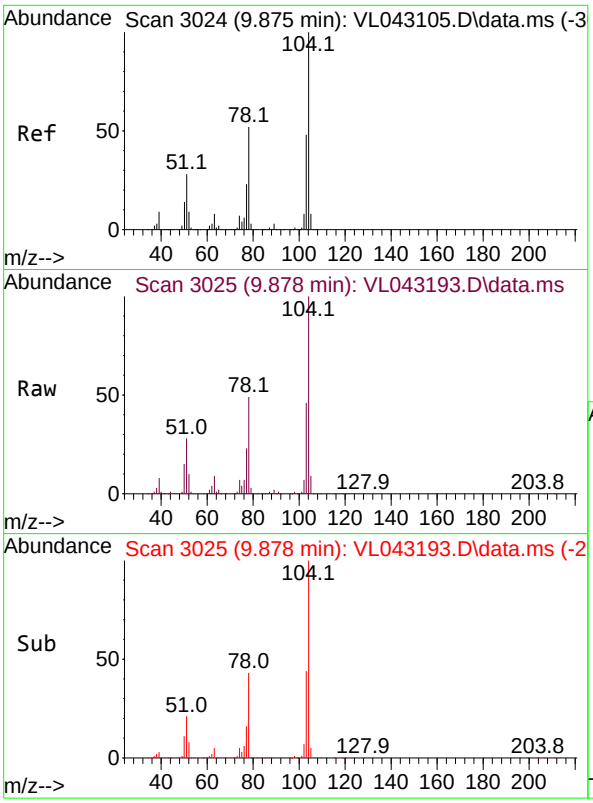


#60
o-Xylene
Concen: 11.039 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 91 Resp: 487054

Ion	Ratio	Lower	Upper
91	100		
106	44.1	21.9	65.8

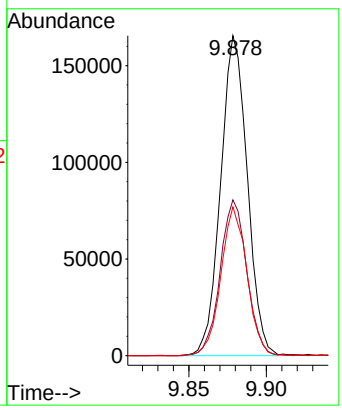




#61
Styrene
Concen: 9.947 ppbv
RT: 9.878 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:104 Resp: 19811

Ion	Ratio	Lower	Upper
104	100		
78	48.8	40.2	60.2
103	45.5	36.9	55.3



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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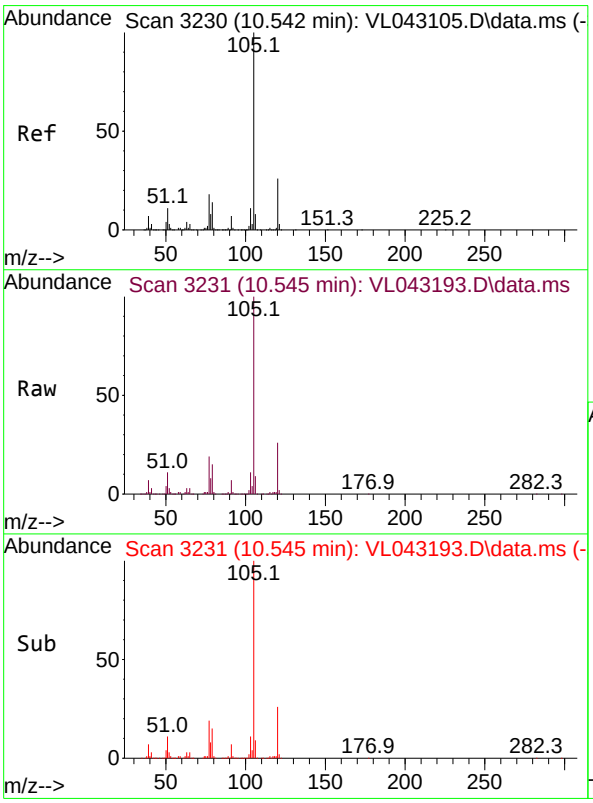
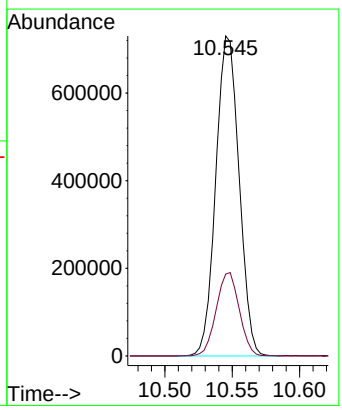
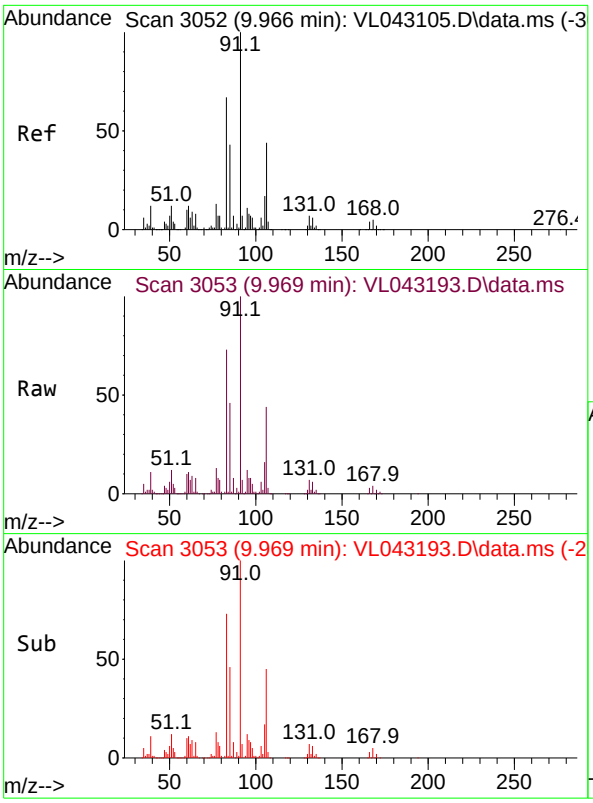


#62
Isopropylbenzene
Concen: 10.988 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:105 Resp: 876032

Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.2	30.4

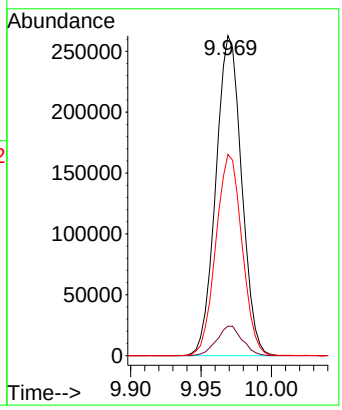




#63
1,1,2,2-Tetrachloroethane
Concen: 11.343 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 83 Resp: 33511

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.8	14.3
85	64.1	32.0	96.0



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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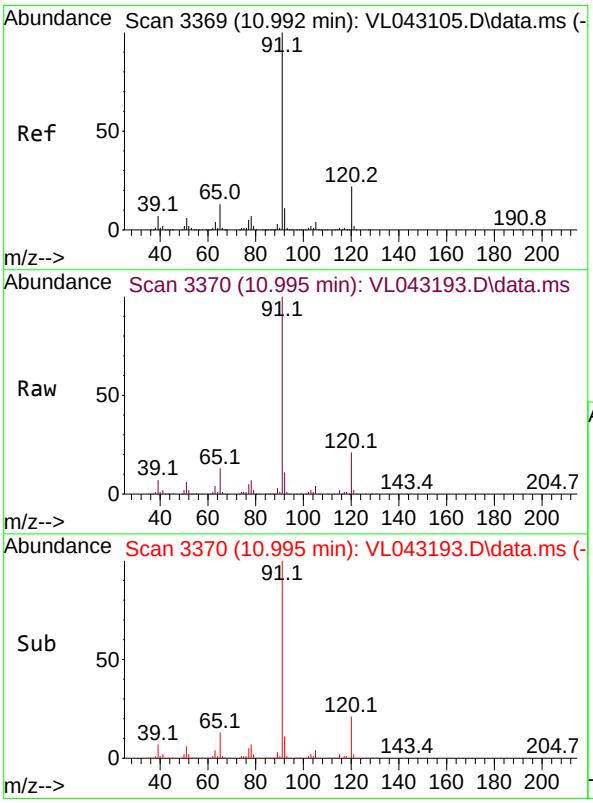
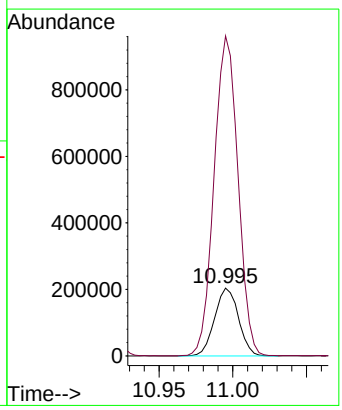
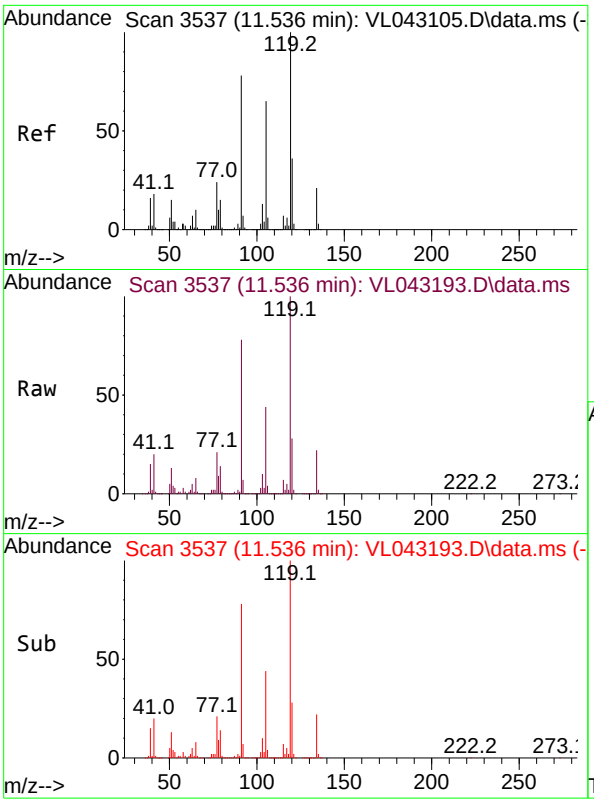


#64
n-propylbenzene
Concen: 10.845 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:120 Resp: 228911

Ion	Ratio	Lower	Upper
120	100		
91	474.6	361.6	542.4

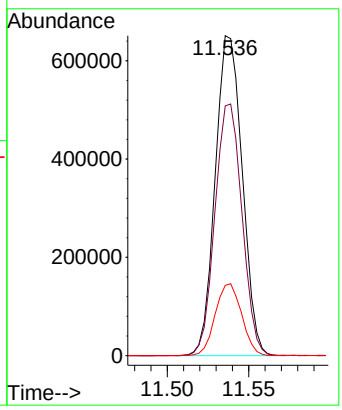




#65
tert-Butylbenzene
Concen: 10.665 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:119 Resp: 75083

Ion	Ratio	Lower	Upper
119	100		
91	78.8	63.4	95.0
134	21.9	17.3	25.9



Instrument :
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ClientSampleId :
VL1113ABS01

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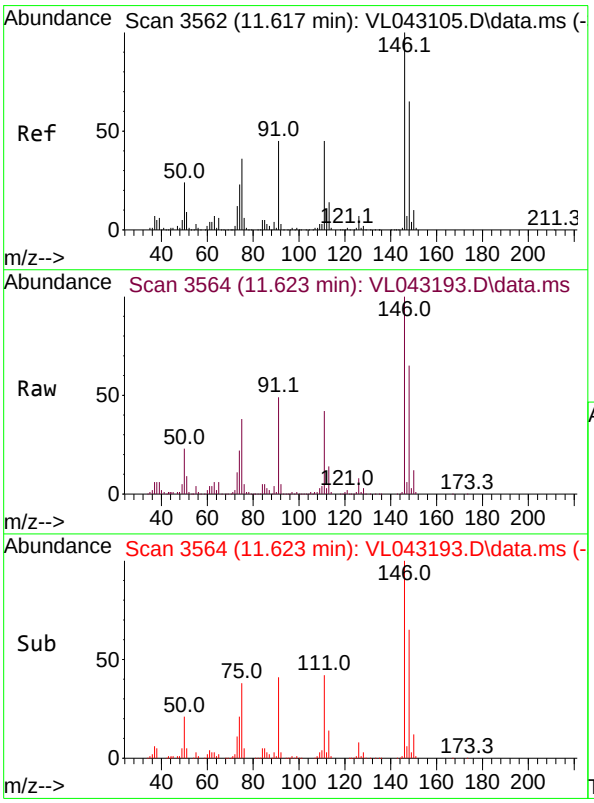
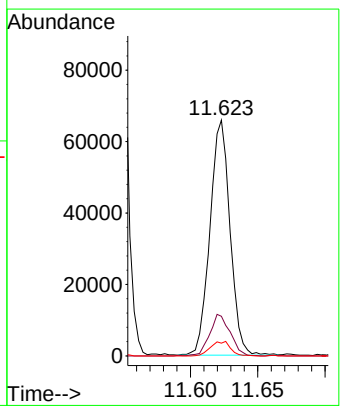
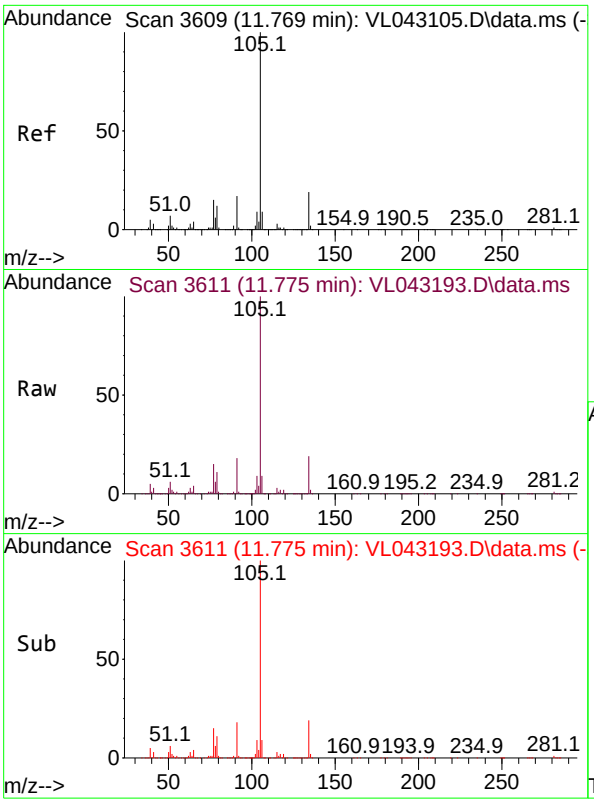


#66
Benzyl Chloride
Concen: 8.701 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 91 Resp: 68177

Ion	Ratio	Lower	Upper
91	100		
126	18.1	14.6	22.0
128	6.2	4.6	6.8





#67
sec-Butylbenzene
Concen: 10.891 ppbv
RT: 11.775 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:105 Resp: 108817

Ion	Ratio	Lower	Upper
105	100		
134	19.0	15.5	23.3

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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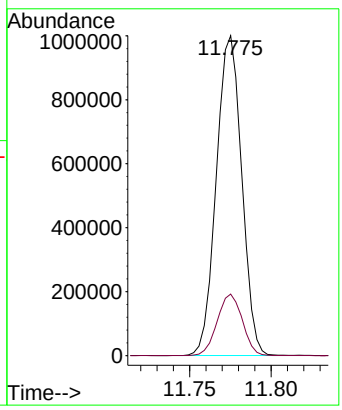
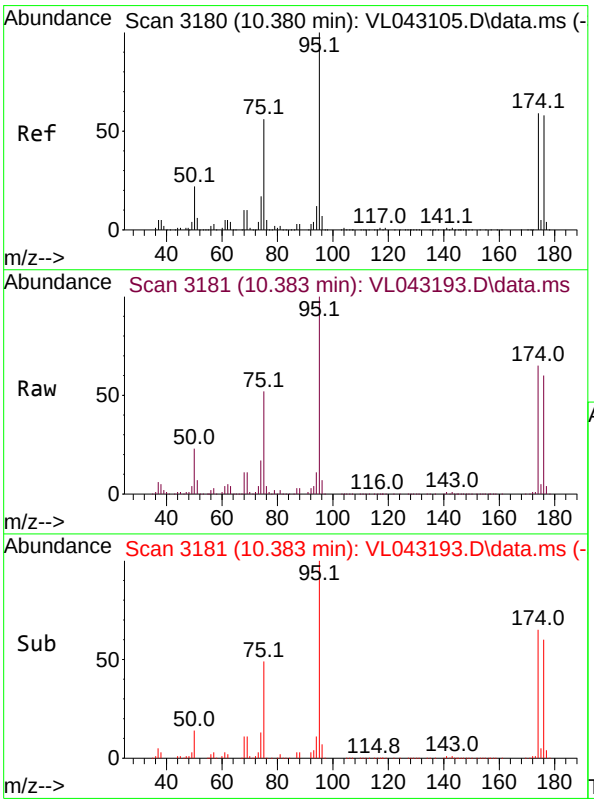
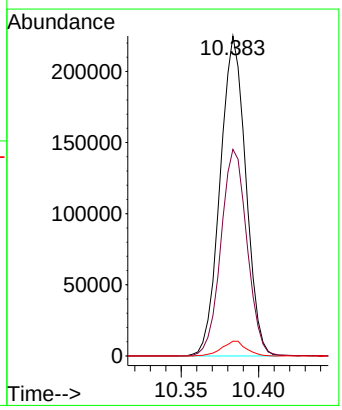


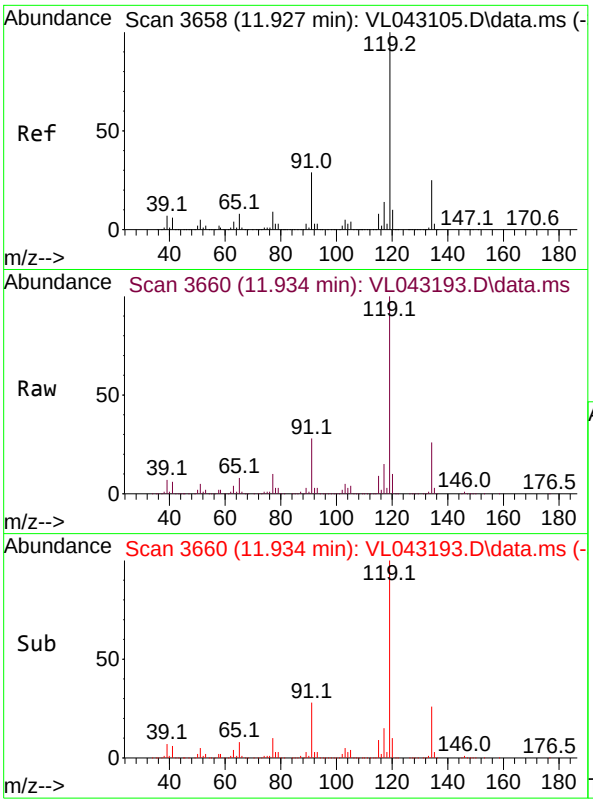


#68
1-Bromo-4-Fluorobenzene
Concen: 10.196 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 95 Resp: 258637

Ion	Ratio	Lower	Upper
95	100		
174	65.6	48.3	72.5
175	4.3	3.8	5.8

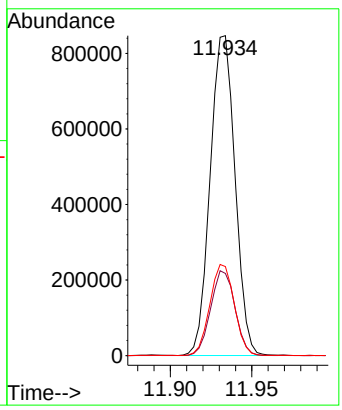




#69
p-Isopropyltoluene
Concen: 10.618 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:119 Resp: 90154

Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.3	30.5
91	28.1	22.6	33.8



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

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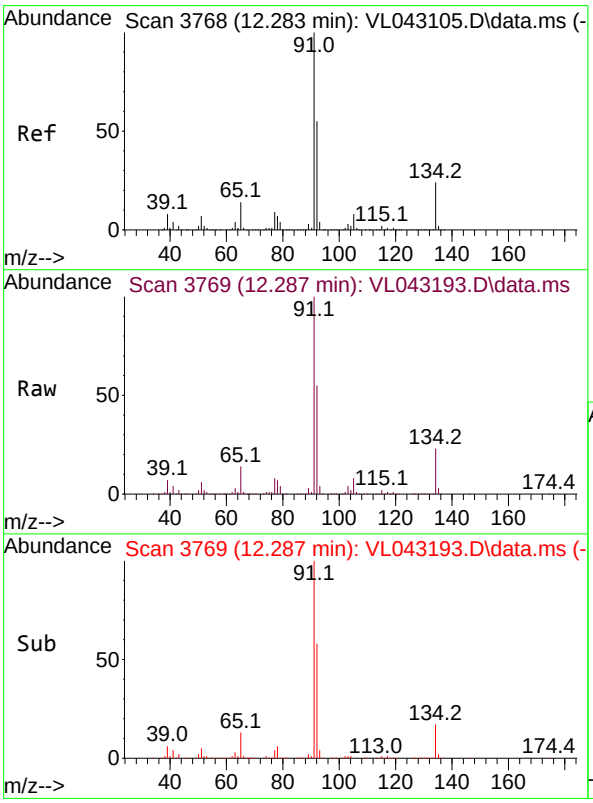
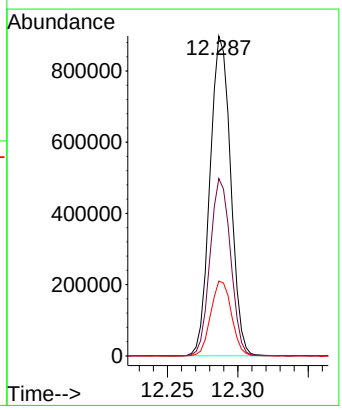
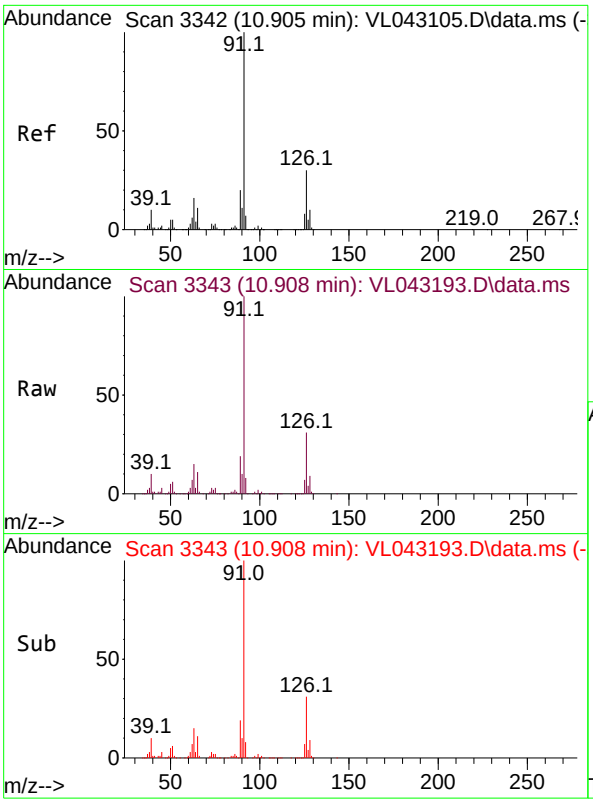


#70
n-Butylbenzene
Concen: 10.962 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 91 Resp: 917214

Ion	Ratio	Lower	Upper
91	100		
92	55.2	44.5	66.7
134	23.4	19.3	28.9

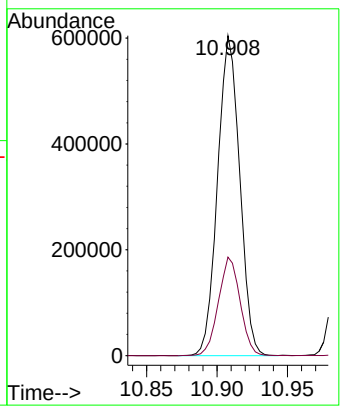




#71
2-Chlorotoluene
Concen: 10.880 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 91 Resp: 66157

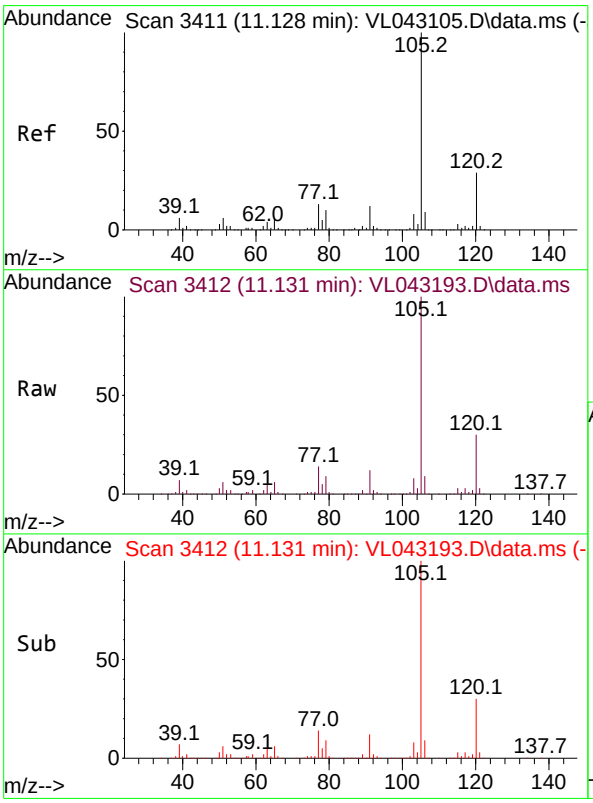
Ion	Ratio	Lower	Upper
91	100		
126	30.1	12.0	48.0



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations
APPROVED

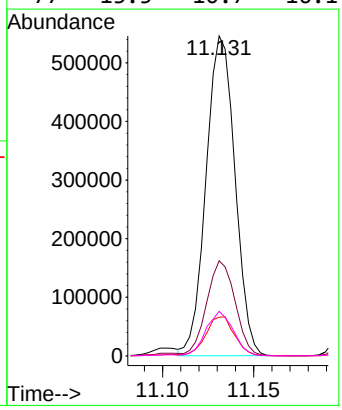
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

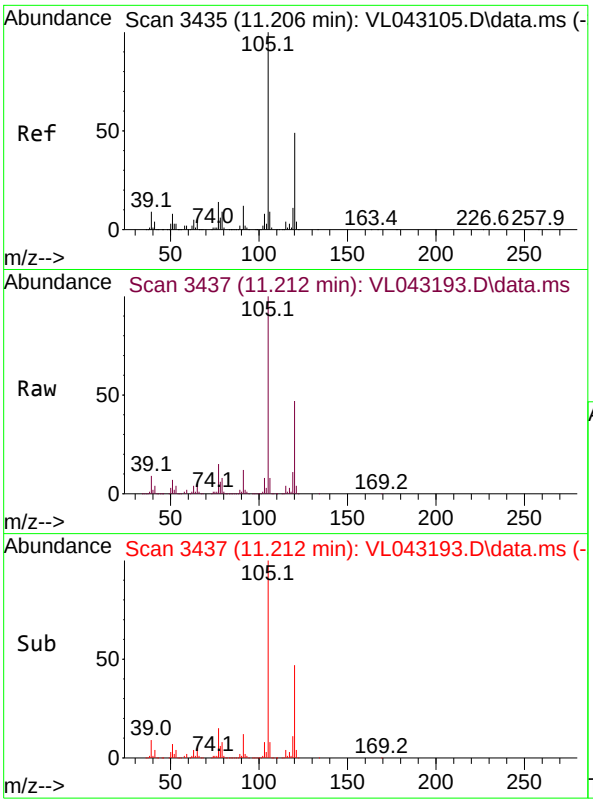


#72
4-Ethyltoluene
Concen: 11.124 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:105 Resp: 603491

Ion	Ratio	Lower	Upper
105	100		
120	30.1	24.2	36.4
91	12.7	10.0	15.0
77	13.5	10.7	16.1

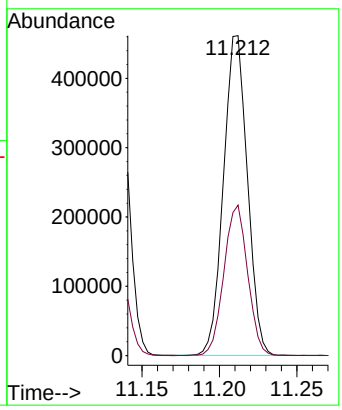




#73
1,3,5-Trimethylbenzene
Concen: 11.091 ppbv
RT: 11.212 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:105 Resp: 49621

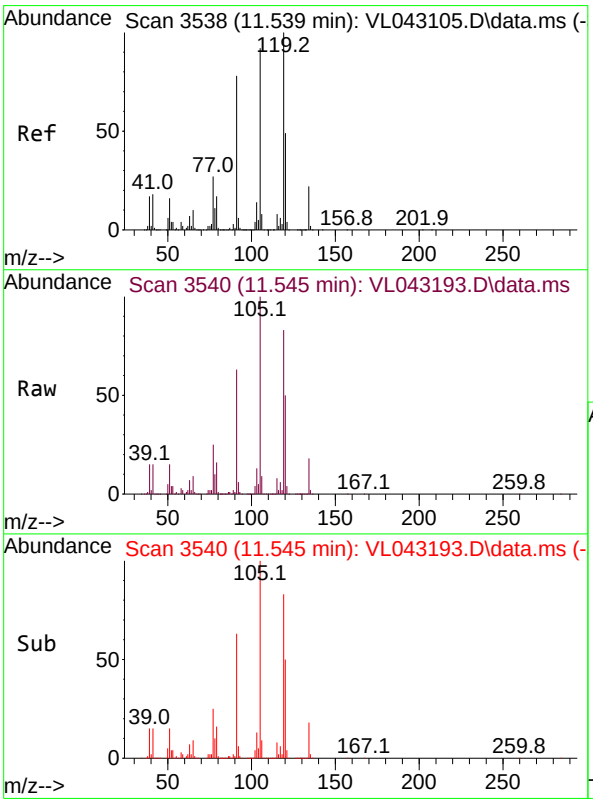
Ion	Ratio	Lower	Upper
105	100		
120	47.0	39.0	58.6



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations
APPROVED

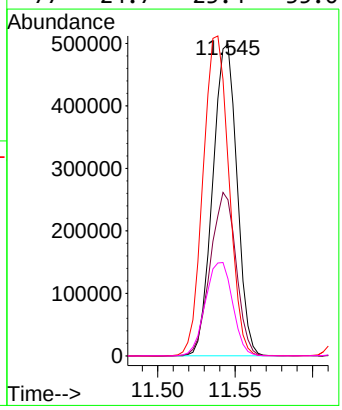
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

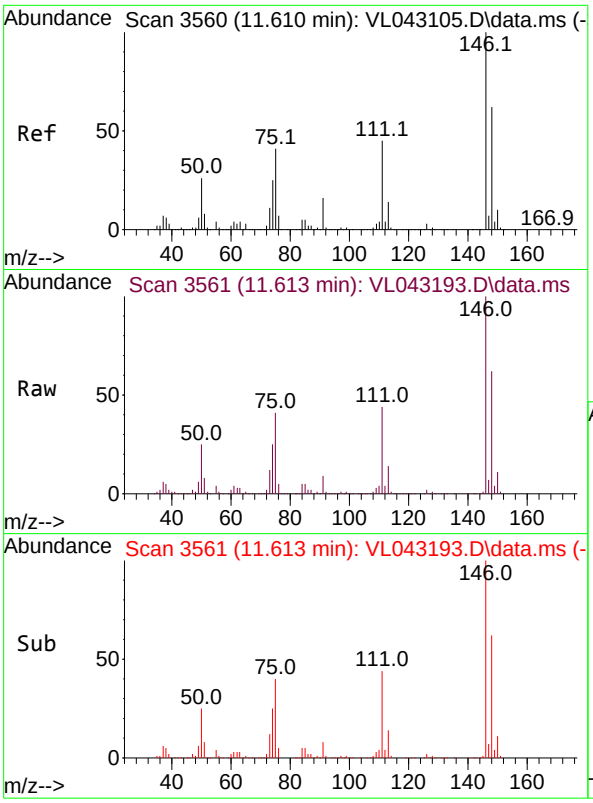


#74
1,2,4-Trimethylbenzene
Concen: 10.858 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:105 Resp: 543655

Ion	Ratio	Lower	Upper
105	100		
120	50.0	42.8	64.2
91	62.6	68.3	102.5#
77	24.7	23.4	35.0

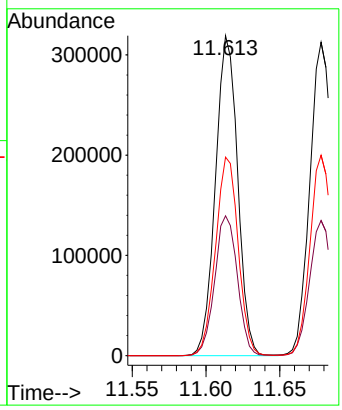




#75
1,3-Dichlorobenzene
Concen: 11.522 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:146 Resp: 33460

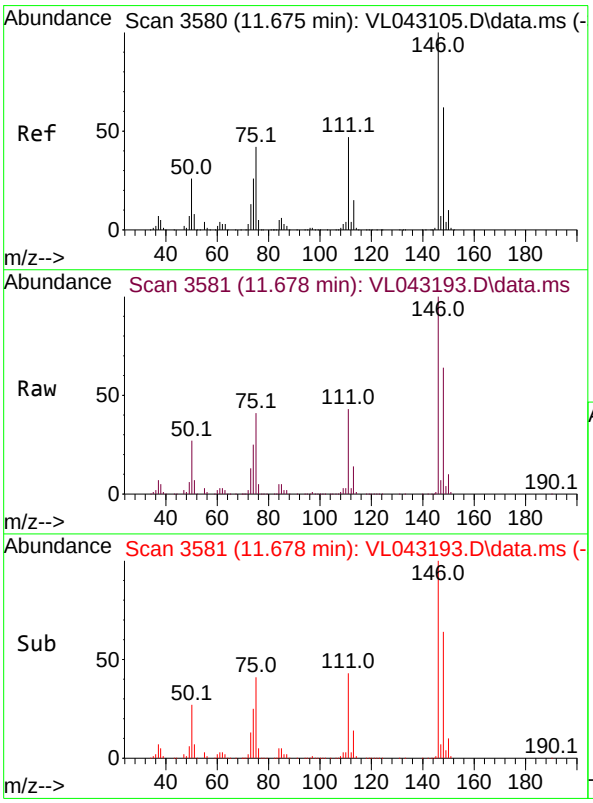
Ion	Ratio	Lower	Upper
146	100		
111	44.6	23.3	69.9
148	63.4	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations
APPROVED

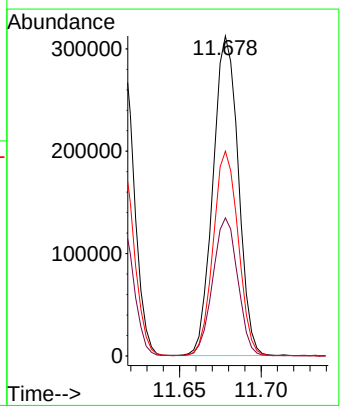
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

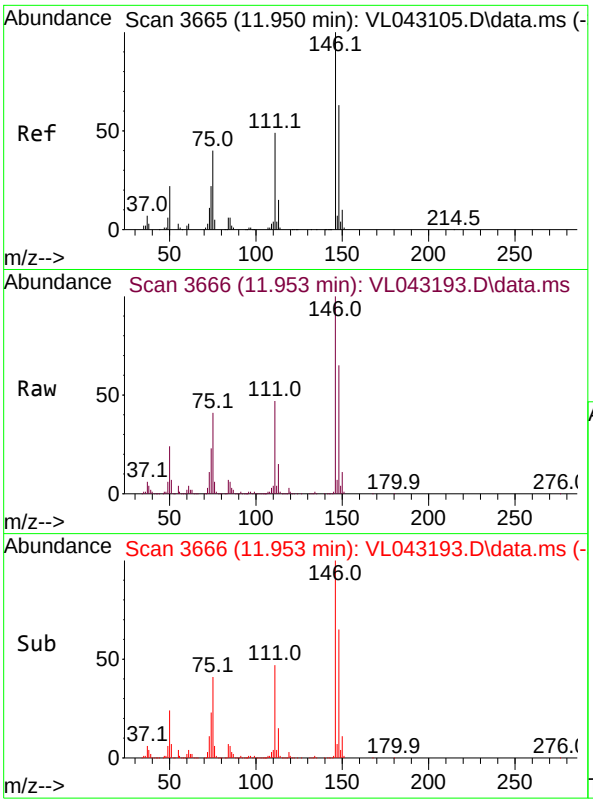


#76
1,4-Dichlorobenzene
Concen: 11.534 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:146 Resp: 337741

Ion	Ratio	Lower	Upper
146	100		
111	42.8	22.4	67.0
148	63.5	31.6	94.7

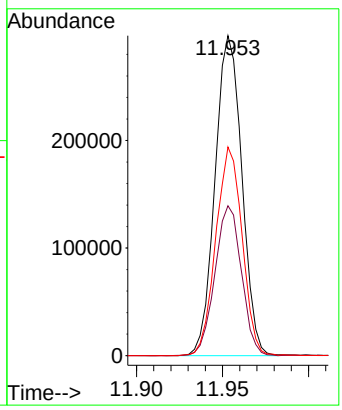




#77
1,2-Dichlorobenzene
Concen: 11.456 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:146 Resp: 32183

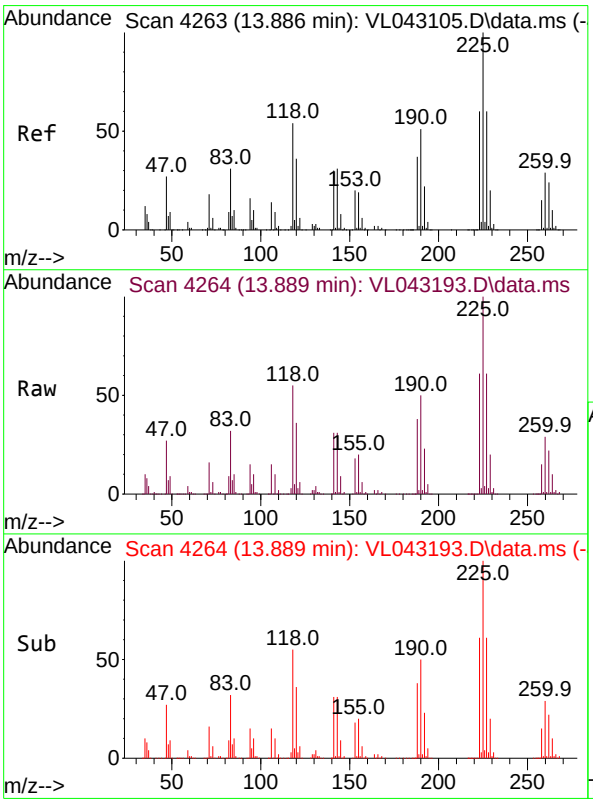
Ion	Ratio	Lower	Upper
146	100		
111	46.4	24.0	72.0
148	64.2	31.1	93.3



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations
APPROVED

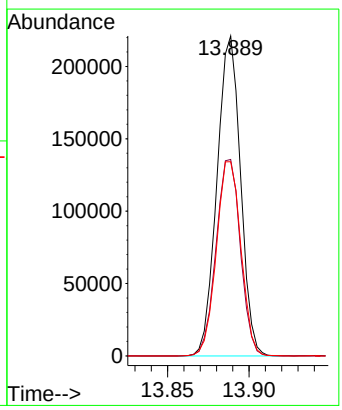
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

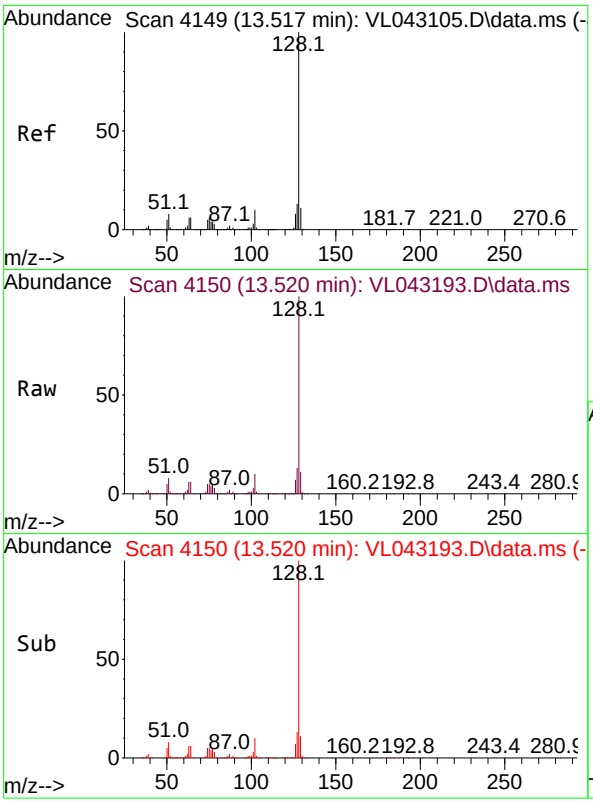


#78
Hexachloro-1,3-Butadiene
Concen: 10.210 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:225 Resp: 222076

Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.2	75.4
227	63.2	49.6	74.4

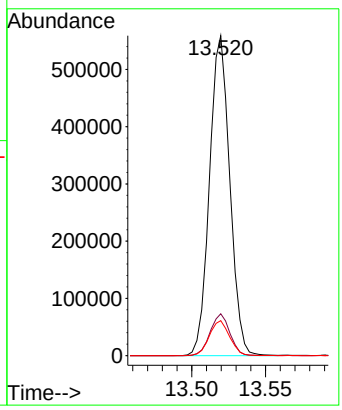




#79
Naphthalene
Concen: 10.240 ppbv
RT: 13.520 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:128 Resp: 53590

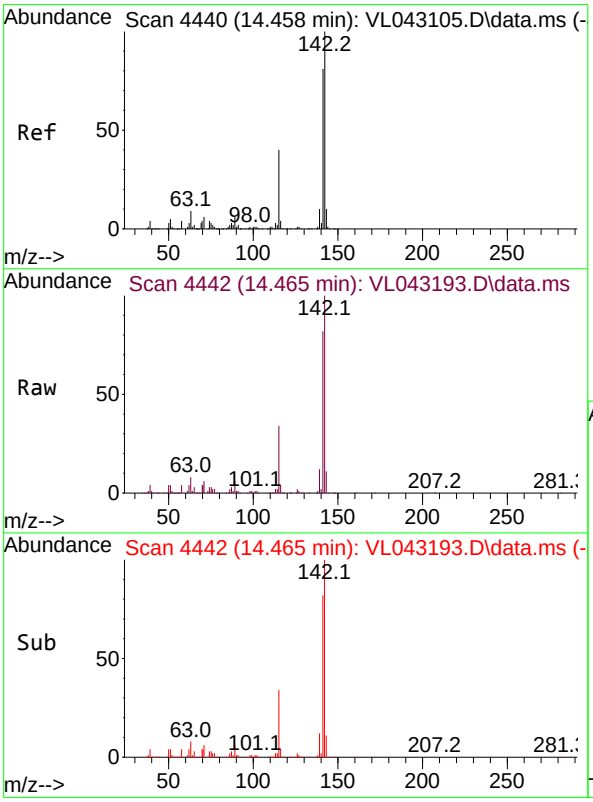
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.9	9.1	13.7



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations
APPROVED

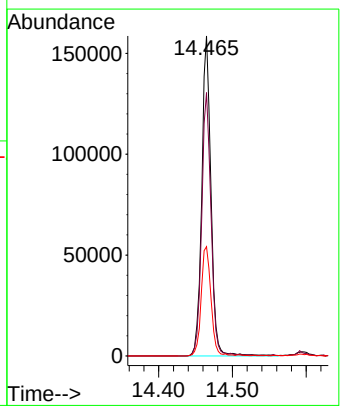
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

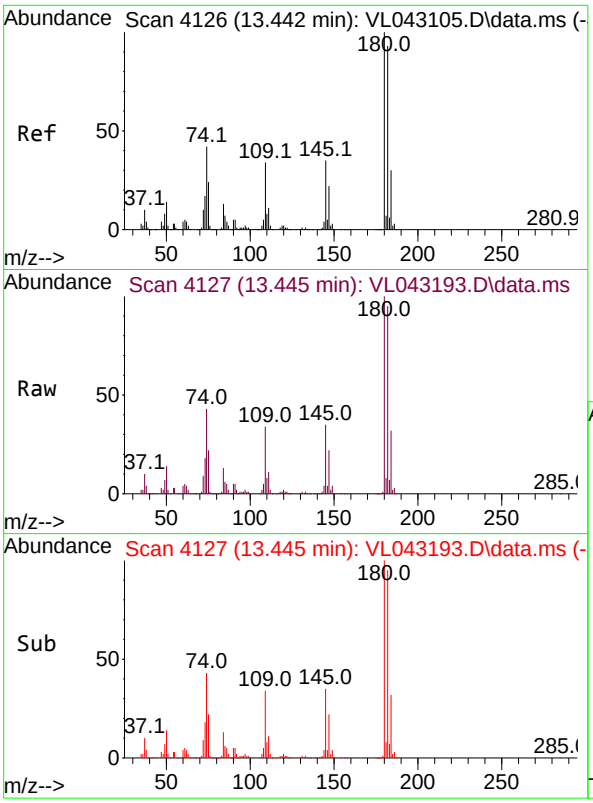


#80
Naphthalene,2-methyl-
Concen: 10.037 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:142 Resp: 136849

Ion	Ratio	Lower	Upper
142	100		
141	84.1	64.6	97.0
115	36.9	30.2	45.4

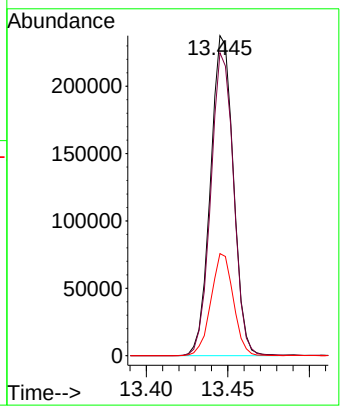




#81
1,2,4-Trichlorobenzene
Concen: 10.710 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:180 Resp: 23262

Ion	Ratio	Lower	Upper
180	100		
182	94.2	75.5	113.3
184	31.1	23.9	35.9



Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	Ashley	Date Received:	
Client Sample ID:	UNIT-7-IA-1DUP	SDG No.:	Q3627
Lab Sample ID:	Q3627-02DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.43	2.13	J	1	0.54	2.47	11/13/25 12:28	VL111325
74-87-3	Chloromethane	0.41	0.85	J	1	0.21	1.03	11/13/25 12:28	VL111325
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/13/25 12:28	VL111325
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	11/13/25 12:28	VL111325
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	11/13/25 12:28	VL111325
109-99-9	Tetrahydrofuran	0.14	0.41	J	1	0.24	1.47	11/13/25 12:28	VL111325
75-69-4	Trichlorofluoromethane	0.27	1.52	J	1	0.96	2.81	11/13/25 12:28	VL111325
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	11/13/25 12:28	VL111325
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	11/13/25 12:28	VL111325
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	11/13/25 12:28	VL111325
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/13/25 12:28	VL111325
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	11/13/25 12:28	VL111325
67-64-1	Acetone	6.20	14.7		1	0.43	1.19	11/13/25 12:28	VL111325
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	11/13/25 12:28	VL111325
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	11/13/25 12:28	VL111325
75-09-2	Methylene Chloride	0.81	2.81		1	0.80	1.74	11/13/25 12:28	VL111325
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	11/13/25 12:28	VL111325
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/13/25 12:28	VL111325
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/13/25 12:28	VL111325
78-93-3	2-Butanone	0.47	1.39	J	1	0.18	1.47	11/13/25 12:28	VL111325
56-23-5	Carbon Tetrachloride	0.080	0.50		1	0.19	0.19	11/13/25 12:28	VL111325
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/13/25 12:28	VL111325
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	11/13/25 12:28	VL111325
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/13/25 12:28	VL111325
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/13/25 12:28	VL111325
71-43-2	Benzene	0.19	0.61	J	1	0.26	1.60	11/13/25 12:28	VL111325
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	11/13/25 12:28	VL111325
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/13/25 12:28	VL111325
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	11/13/25 12:28	VL111325
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	11/13/25 12:28	VL111325
108-10-1	4-Methyl-2-Pentanone	1.20	4.92		1	0.41	2.05	11/13/25 12:28	VL111325
108-88-3	Toluene	1.10	4.15		1	0.60	1.88	11/13/25 12:28	VL111325
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	11/13/25 12:28	VL111325
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	11/13/25 12:28	VL111325
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	11/13/25 12:28	VL111325
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	11/13/25 12:28	VL111325
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	11/13/25 12:28	VL111325
127-18-4	Tetrachloroethene	0.060	0.41		1	0.14	0.20	11/13/25 12:28	VL111325
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	11/13/25 12:28	VL111325
100-41-4	Ethyl Benzene	0.29	1.26	J	1	0.83	2.17	11/13/25 12:28	VL111325
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/13/25 12:28	VL111325
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/13/25 12:28	VL111325
100-42-5	Styrene	0.57	2.43		1	0.68	2.13	11/13/25 12:28	VL111325
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	11/13/25 12:28	VL111325
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	11/13/25 12:28	VL111325
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	11/13/25 12:28	VL111325

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	Ashley	Date Received:	
Client Sample ID:	UNIT-7-IA-1DUP	SDG No.:	Q3627
Lab Sample ID:	Q3627-02DUP	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 mL		

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3		Date Ana.	BatchID
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46		11/13/25 12:28	VL111325
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46		11/13/25 12:28	VL111325
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01		11/13/25 12:28	VL111325
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01		11/13/25 12:28	VL111325
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01		11/13/25 12:28	VL111325
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71		11/13/25 12:28	VL111325
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33		11/13/25 12:28	VL111325
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11		11/13/25 12:28	VL111325
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52		11/13/25 12:28	VL111325
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46		11/13/25 12:28	VL111325
110-54-3	Hexane	1.60	5.64		1	0.56	1.76		11/13/25 12:28	VL111325
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57		11/13/25 12:28	VL111325
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80		11/13/25 12:28	VL111325
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05		11/13/25 12:28	VL111325
SURROGATES										
460-00-4	1-Bromo-4-Fluorobenzene	10.5				70 (65) - 130	104%	SPK: 10		
INTERNAL STANDARDS		**Area Count**								
74-97-5	Bromochloromethane	145000								
540-36-3	1,4-Difluorobenzene	399000								
3114-55-4	Chlorobenzene-d5	346000								

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\VL111325\
Data File : VL043195.D
Acq On : 13 Nov 2025 12:28
Operator : SY/MD
Sample : Q3627-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	145038	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	398990	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	346200	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	281256	10.452	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	8884	0.431	ppbv	91
4) Chloromethane	1.538	50	3384	0.414	ppbv	93
9) Propene	1.490	41	7501	0.758	ppbv	96
10) Heptane	4.995	43	3640m	0.128	ppbv	
11) Trichlorofluoromethane	1.884	101	5543	0.275	ppbv	89
13) Ethanol	1.726	45	512270	139.967	ppbv	98
15) Acetone	1.842	43	120845	6.182	ppbv	99
19) Isopropyl Alcohol	1.891	45	1737162	142.677	ppbv #	37
20) Methylene Chloride	2.069	84	6233	0.807	ppbv	88
25) Ethyl Acetate	2.846	43	106715m	2.201	ppbv	
26) Hexane	2.836	57	35887	1.607	ppbv #	62
34) 2-Butanone	2.567	43	12586	0.469	ppbv	91
35) Carbon Tetrachloride	3.775	117	2176	0.076	ppbv	84
36) Benzene	3.671	78	6968	0.185	ppbv #	93
41) Tetrahydrofuran	3.069	42	2143m	0.143	ppbv	
50) 4-Methyl-2-Pentanone	5.778	43	44901	1.213	ppbv	99
52) Tetrachloroethene	8.241	164	825m	0.061	ppbv	
53) Toluene	6.950	91	48404	1.085	ppbv	99
58) Ethyl Benzene	9.364	91	17354	0.292	ppbv	99
59) m/p-Xylene	9.542	91	4937m	0.104	ppbv	
61) Styrene	9.879	104	12035	0.570	ppbv	94

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043195.D
Acq On : 13 Nov 2025 12:28
Operator : SY/MD
Sample : Q3627-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 14 04:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

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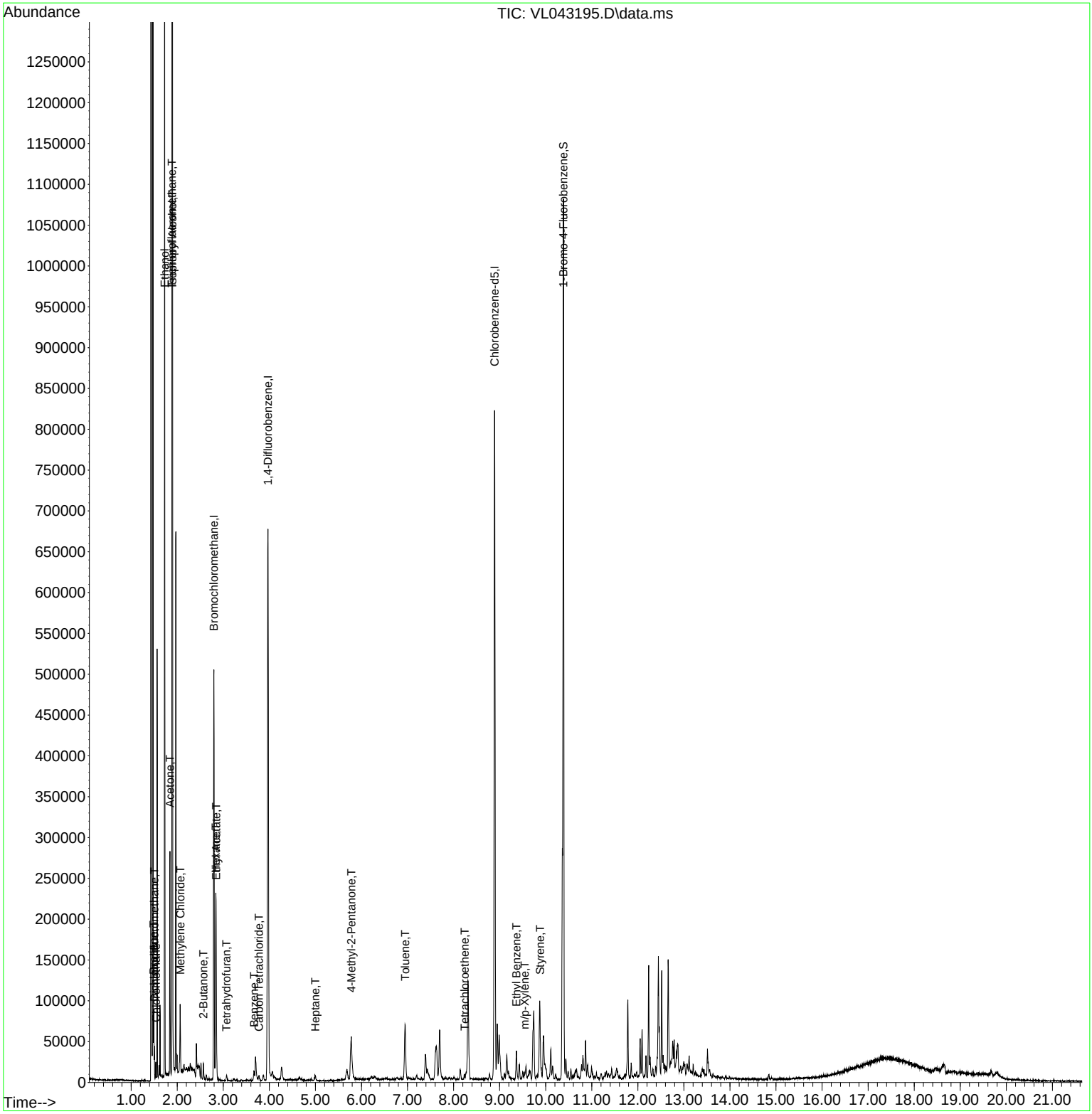
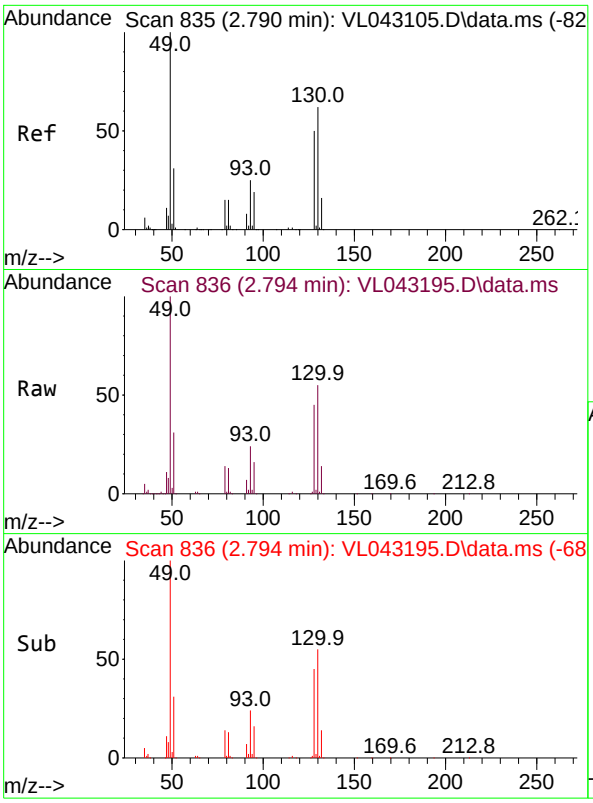
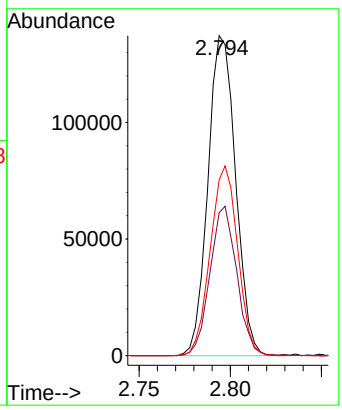




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 49 Resp: 14503

Ion	Ratio	Lower	Upper
49	100		
128	45.2	24.4	73.4
130	58.8	31.0	93.0



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Manual Integrations
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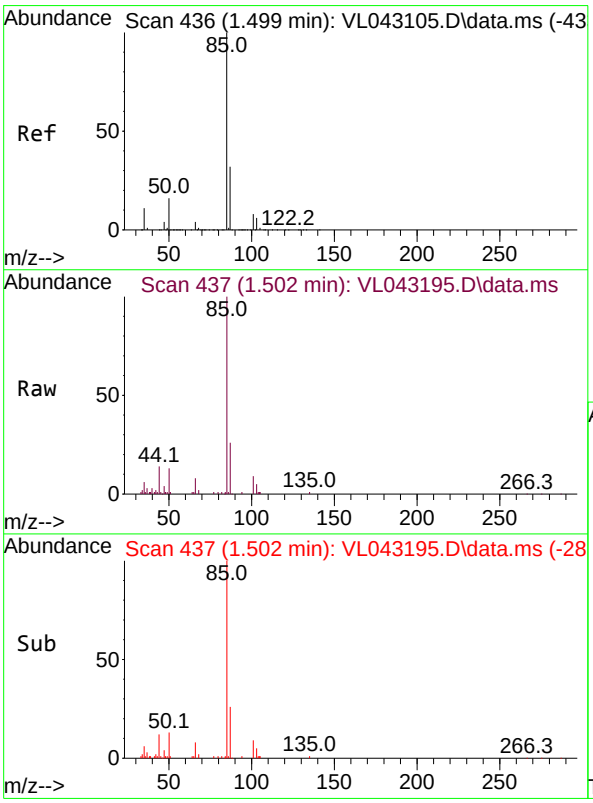
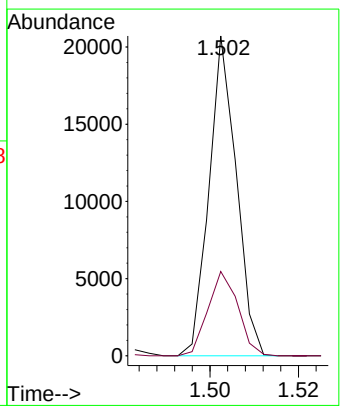
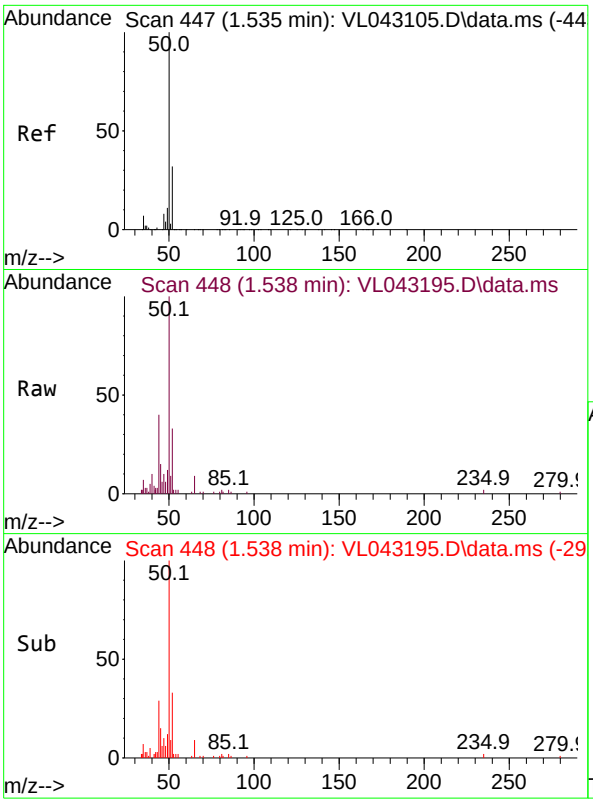


#2
Dichlorodifluoromethane
Concen: 0.431 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 85 Resp: 8884

Ion	Ratio	Lower	Upper
85	100		
87	26.4	25.3	37.9

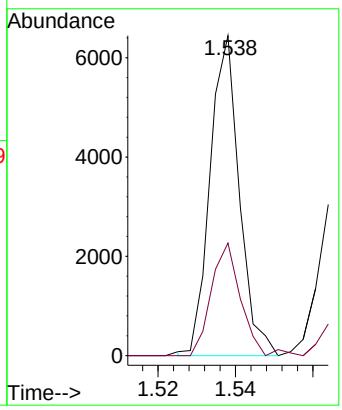




#4
Chloromethane
Concen: 0.414 ppbv
RT: 1.538 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 50 Resp: 338

Ion	Ratio	Lower	Upper
50	100		
52	35.2	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
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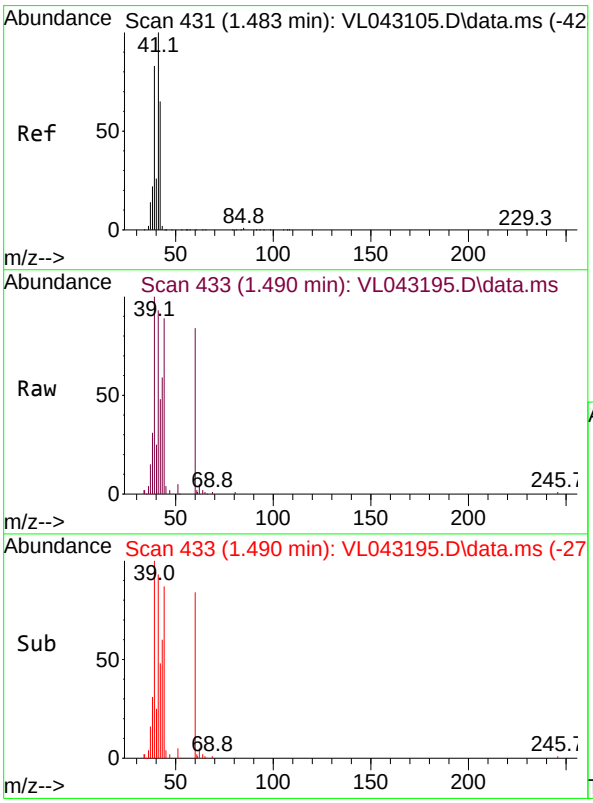
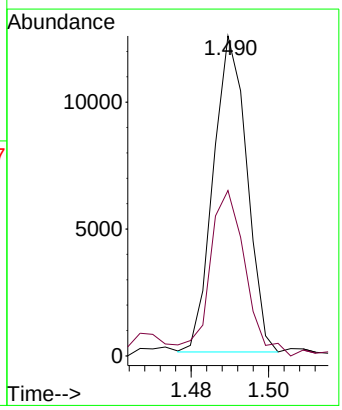
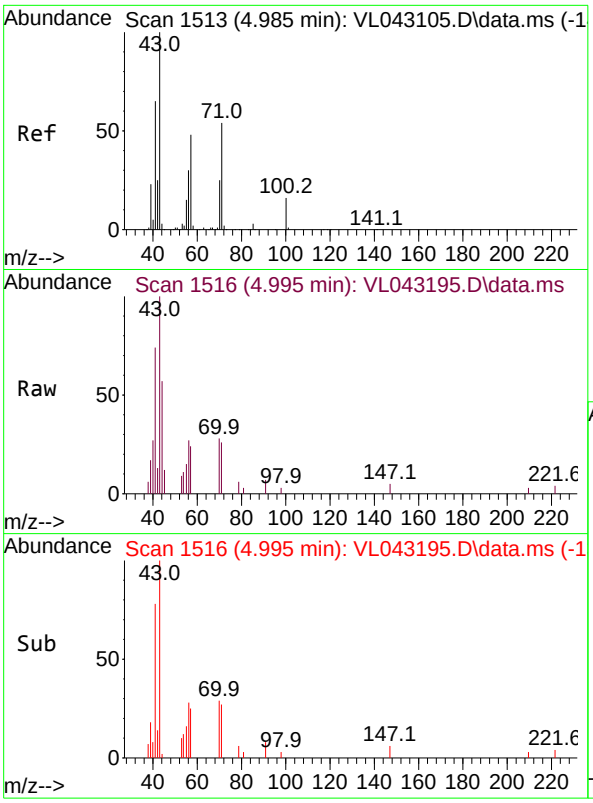


#9
Propene
Concen: 0.758 ppbv
RT: 1.490 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 41 Resp: 7501

Ion	Ratio	Lower	Upper
41	100		
42	65.4	55.1	82.7

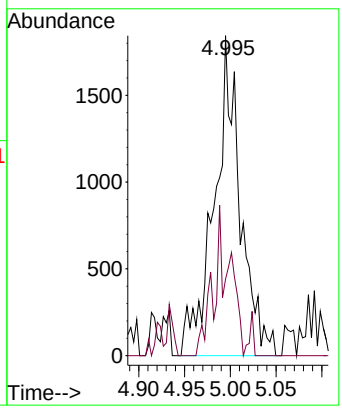




#10
Heptane
Concen: 0.128 ppbv m
RT: 4.995 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 43 Resp: 364

Ion	Ratio	Lower	Upper
43	100		
57	31.2	40.8	61.2



Instrument :
MSVOA_L
ClientSampleId :
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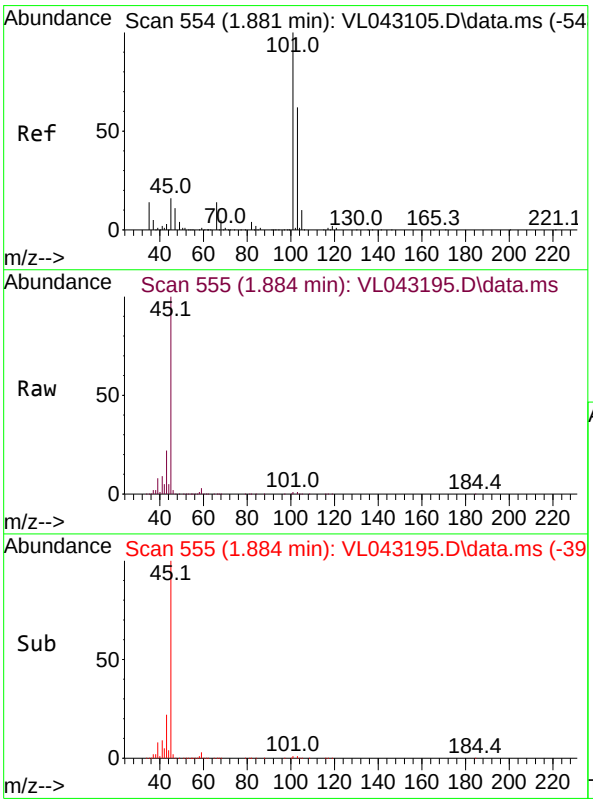
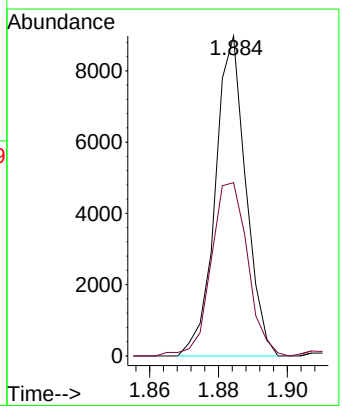
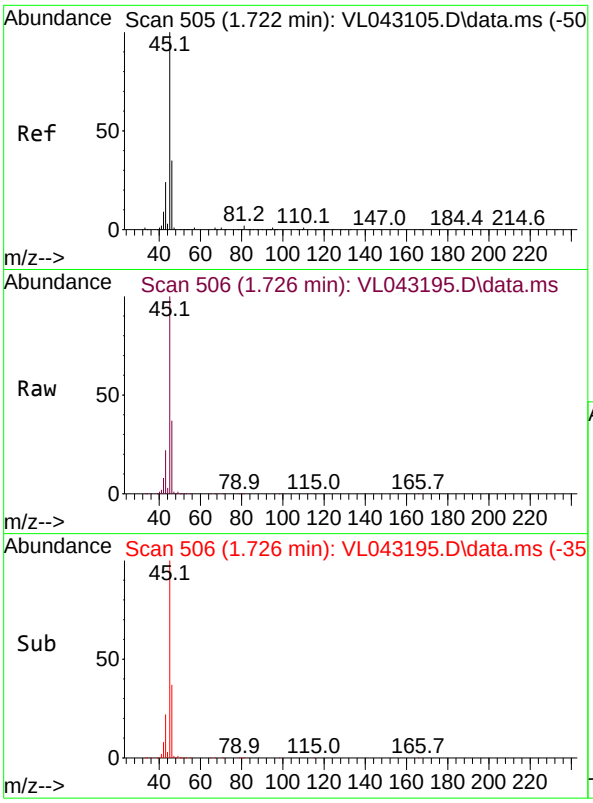


#11
Trichlorofluoromethane
Concen: 0.275 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion:101 Resp: 5543

Ion	Ratio	Lower	Upper
101	100		
103	53.2	49.3	73.9

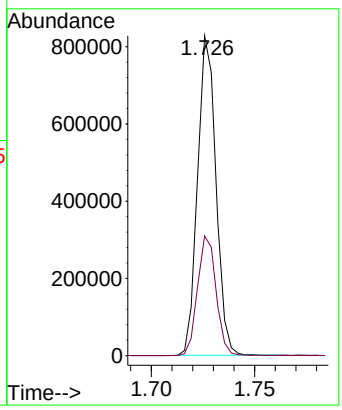




#13
Ethanol
Concen: 139.967 ppbv
RT: 1.726 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 45 Resp: 51227

Ion	Ratio	Lower	Upper
45	100		
46	37.9	14.7	58.9



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

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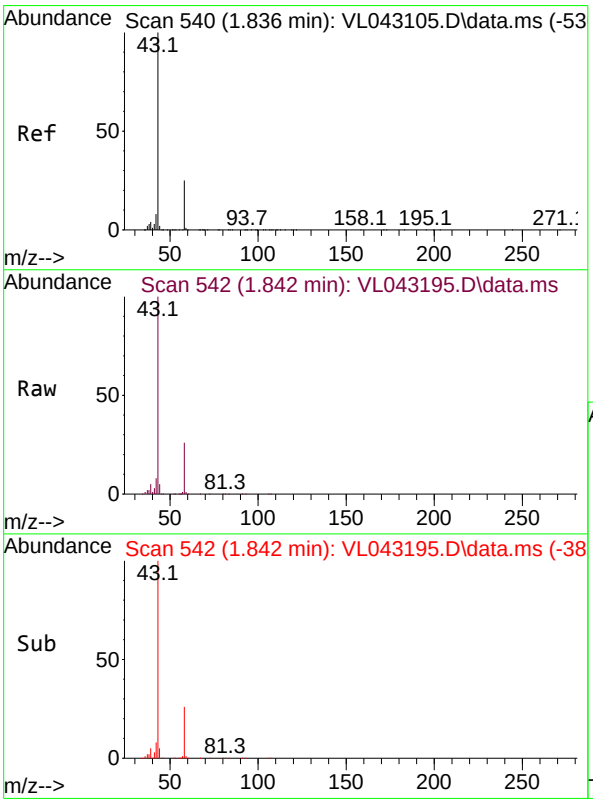
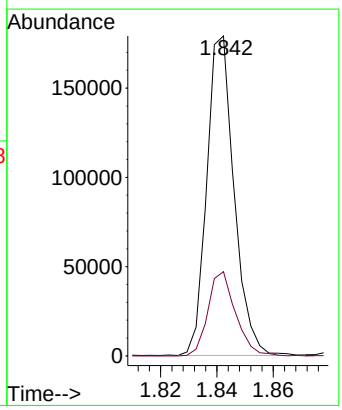
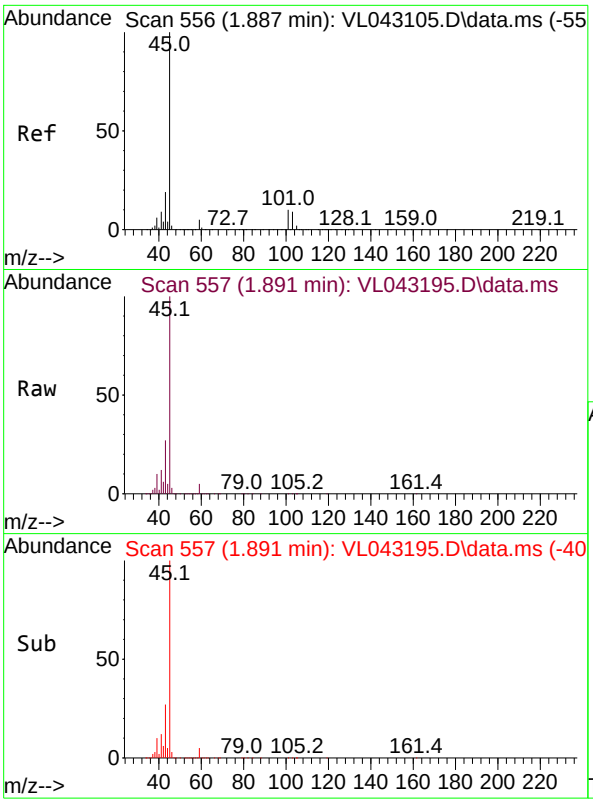


#15
Acetone
Concen: 6.182 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 43 Resp: 120845

Ion	Ratio	Lower	Upper
43	100		
58	26.5	20.8	31.2

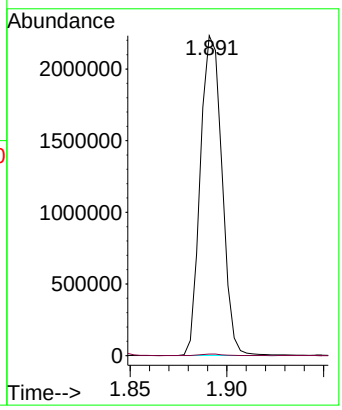




#19
Isopropyl Alcohol
Concen: 142.677 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 45 Resp: 173716

Ion	Ratio	Lower	Upper
45	100		
58	0.5	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

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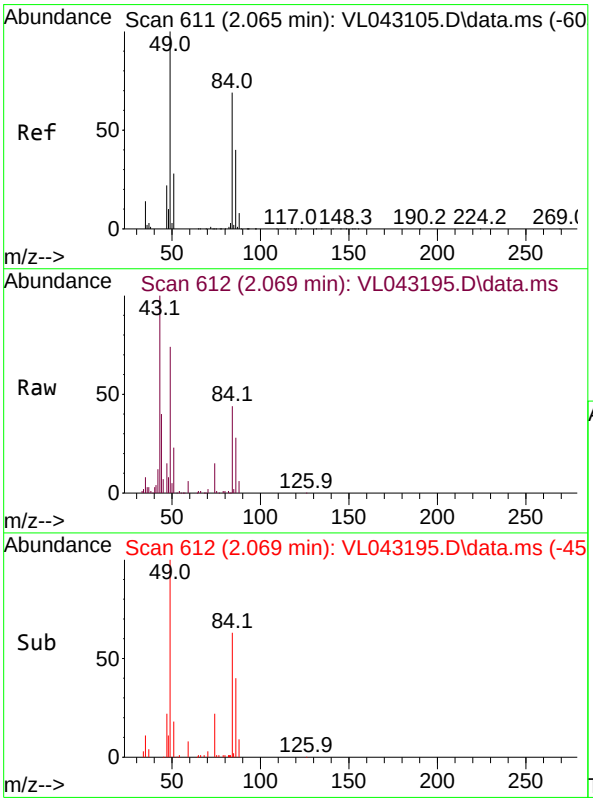
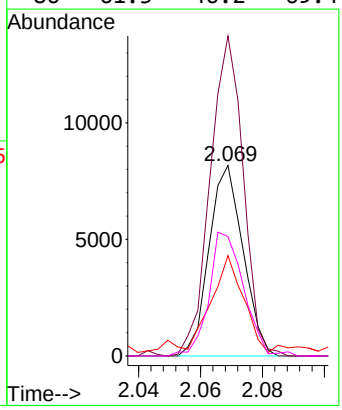
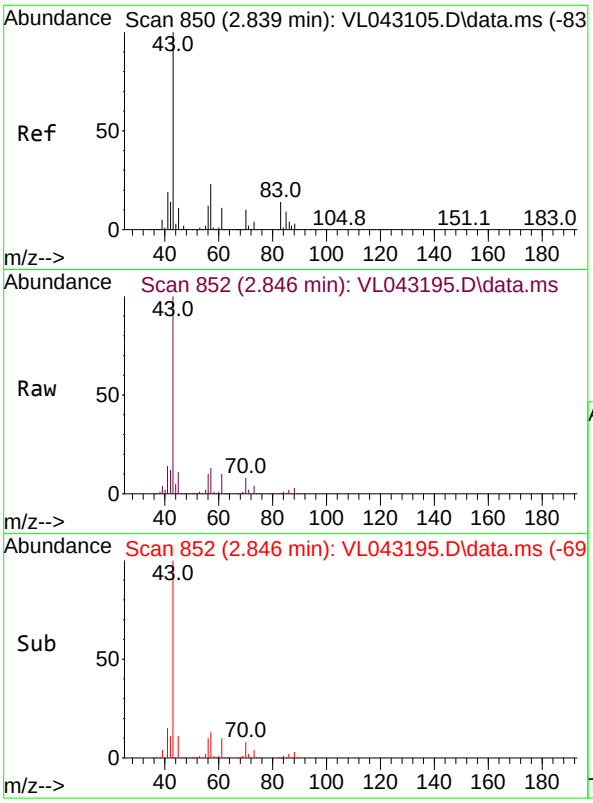


#20
Methylene Chloride
Concen: 0.807 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 84 Resp: 6233

Ion	Ratio	Lower	Upper
84	100		
49	167.1	116.6	175.0
51	47.9	34.8	52.2
86	61.3	46.2	69.4

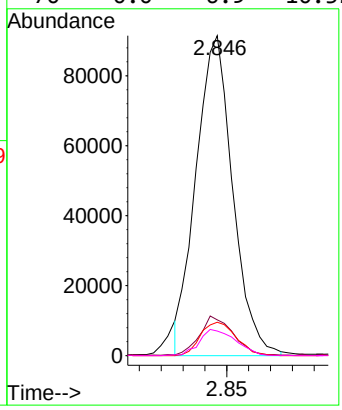




#25
Ethyl Acetate
Concen: 2.201 ppbv m
RT: 2.846 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 43 Resp: 10671

Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	0.0	7.0	10.6#
70	0.0	6.9	10.3#



Instrument :
MSVOA_L
ClientSampleId :
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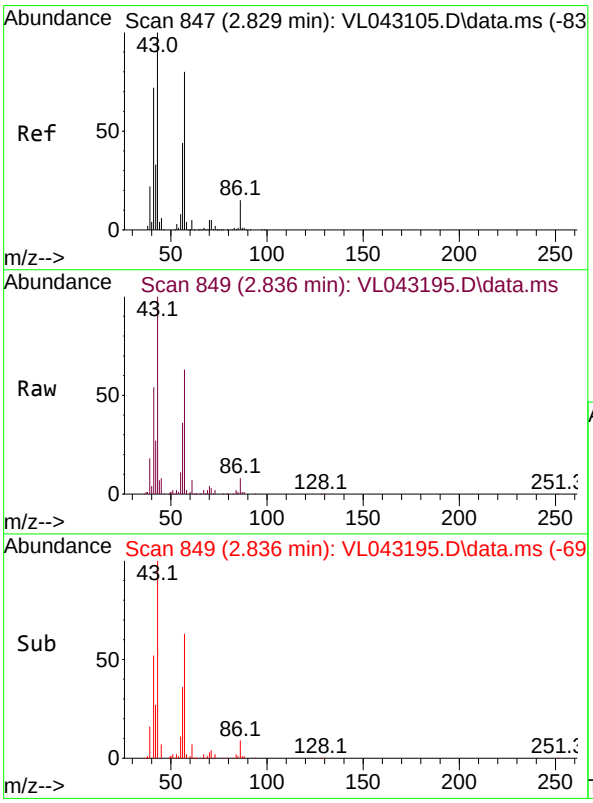
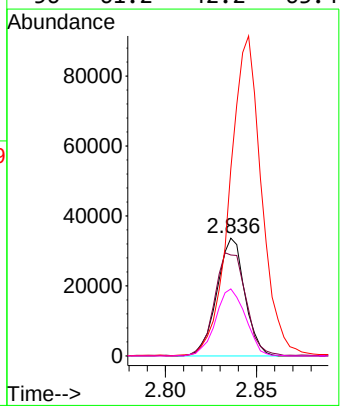
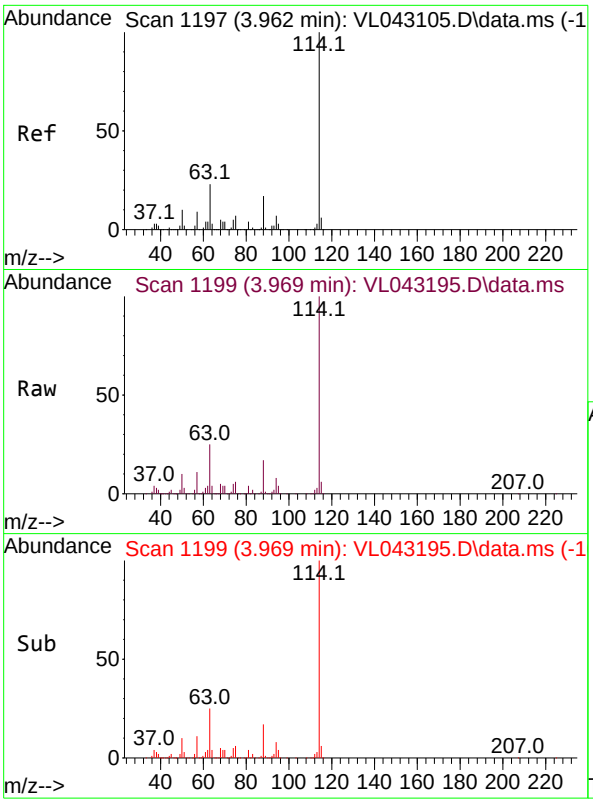


#26
Hexane
Concen: 1.607 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 57 Resp: 35887

Ion	Ratio	Lower	Upper
57	100		
41	97.1	71.4	107.0
43	312.9	178.5	267.7#
56	61.2	42.2	63.4

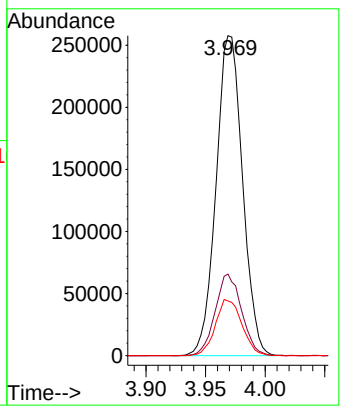




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.969 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion:114 Resp: 39899

Ion	Ratio	Lower	Upper
114	100		
63	25.4	19.3	28.9
88	17.5	13.9	20.9



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

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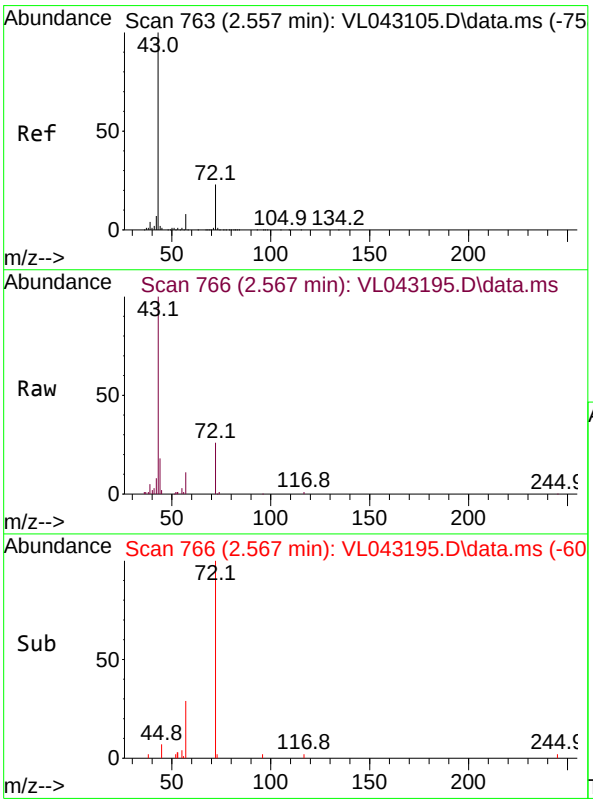
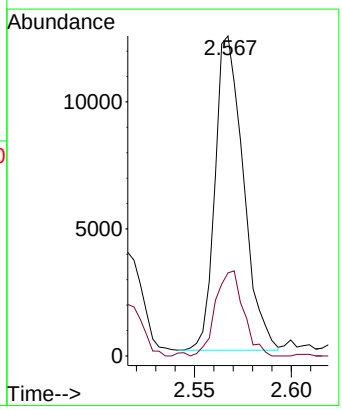
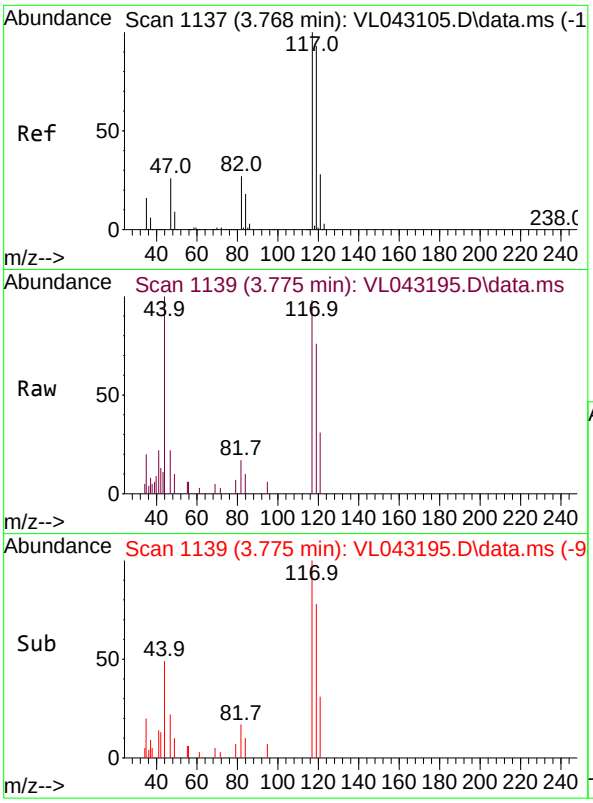


#34
2-Butanone
Concen: 0.469 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 43 Resp: 12586

Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.4	27.6

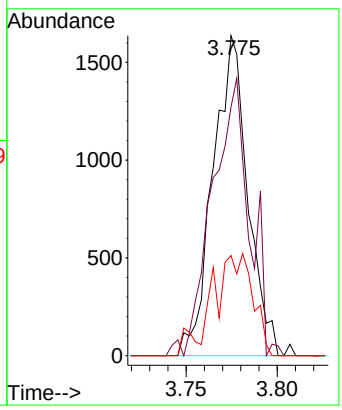




#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 3.775 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion:117 Resp: 217

Ion	Ratio	Lower	Upper
117	100		
119	74.6	74.1	111.1
121	31.3	22.2	33.2



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Manual Integrations
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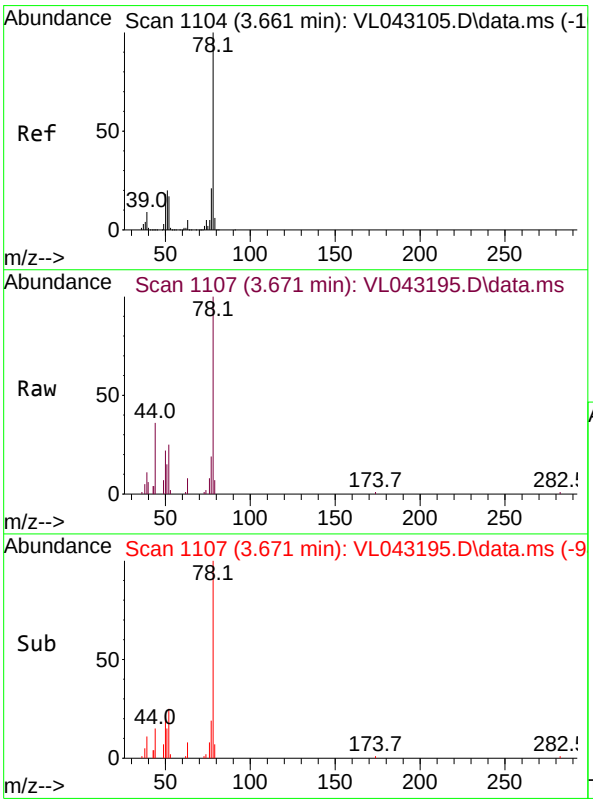
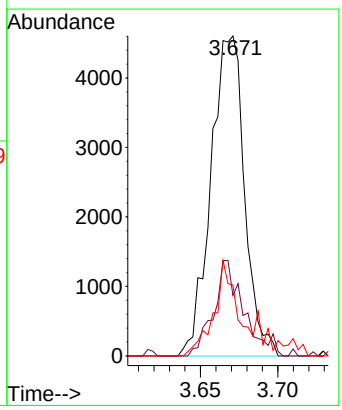
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

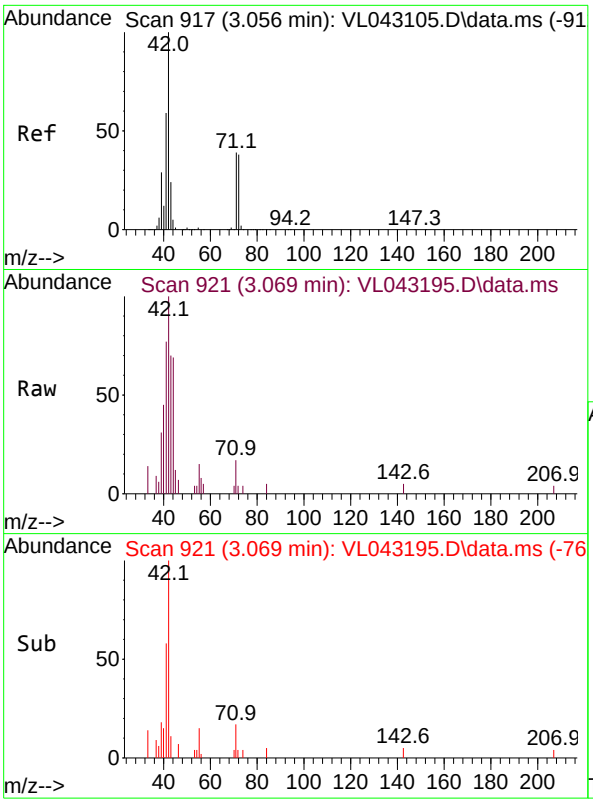


#36
Benzene
Concen: 0.185 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 78 Resp: 6968

Ion	Ratio	Lower	Upper
78	100		
77	18.9	17.0	25.6
50	22.1	14.6	22.0#

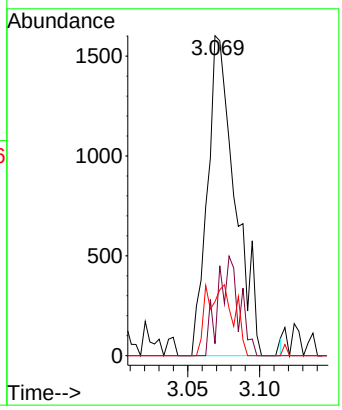




#41
Tetrahydrofuran
Concen: 0.143 ppbv m
RT: 3.069 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 42 Resp: 214

Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.3	46.9#
71	0.0	30.4	45.6#



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Manual Integrations
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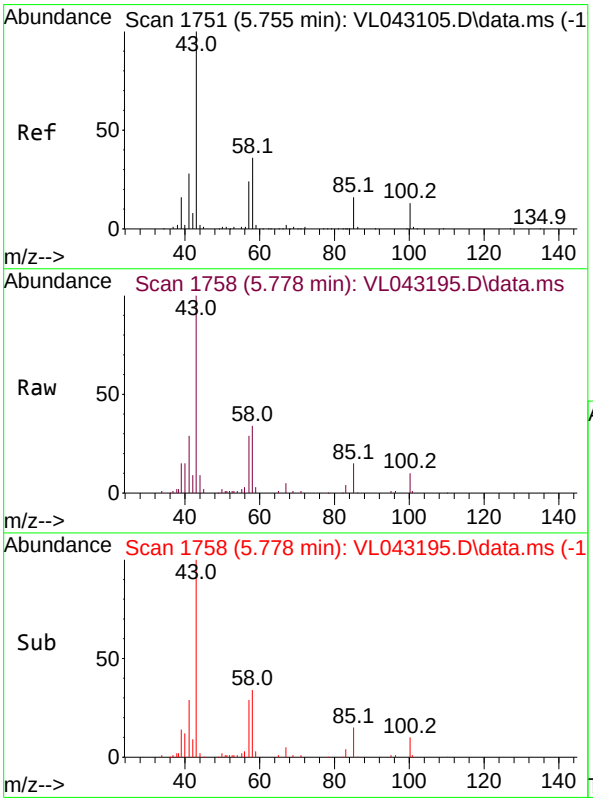
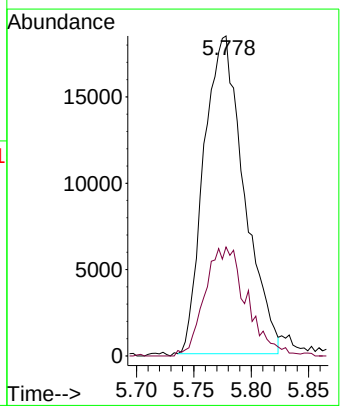
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

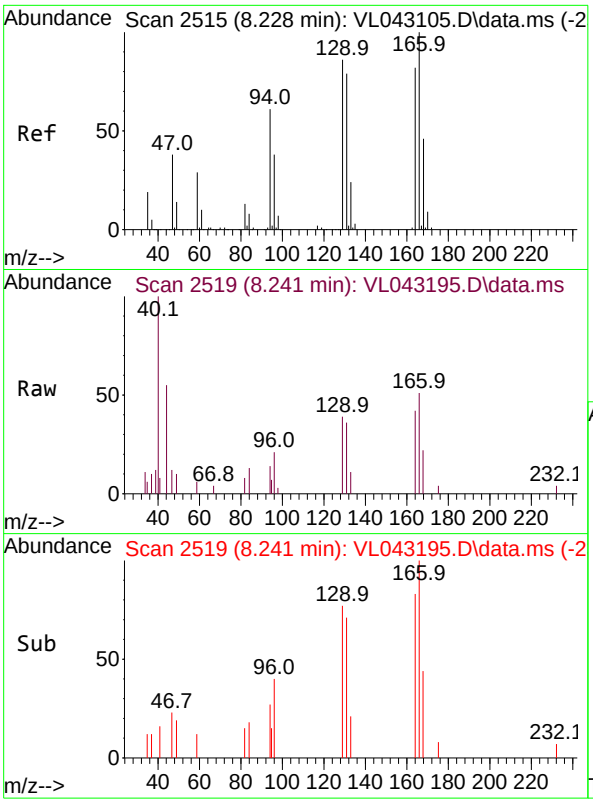


#50
4-Methyl-2-Pentanone
Concen: 1.213 ppbv
RT: 5.778 min Scan# 1758
Delta R.T. 0.023 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 43 Resp: 44901

Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.1	43.7

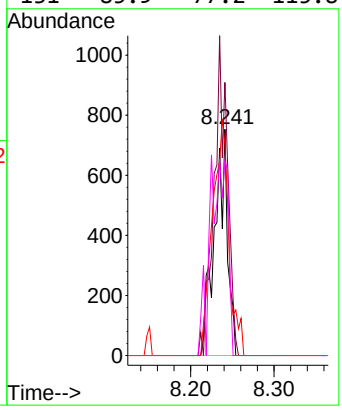




#52
Tetrachloroethene
Concen: 0.061 ppbv m
RT: 8.241 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion:164 Resp: 82

Ion	Ratio	Lower	Upper
164	100		
166	120.7	97.6	146.4
129	93.4	84.5	126.7
131	85.9	77.2	115.8



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Manual Integrations
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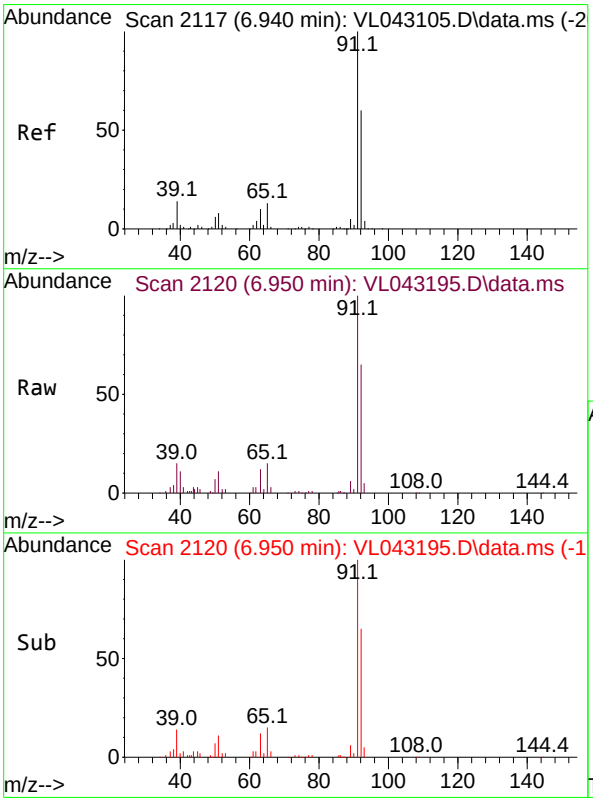
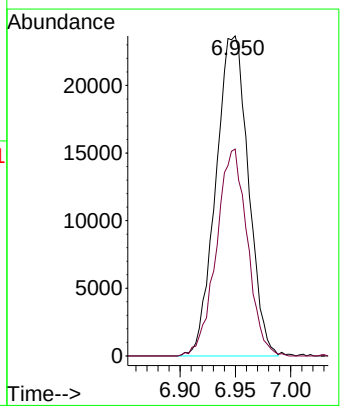
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

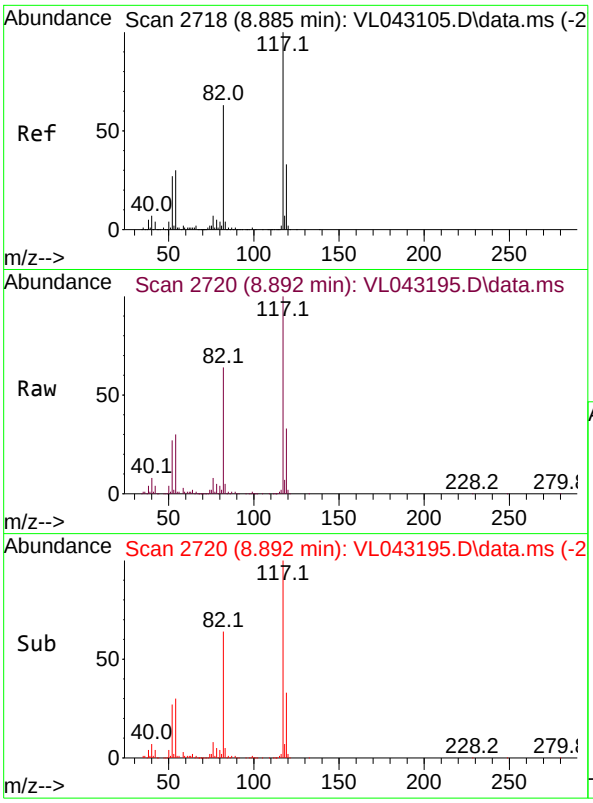


#53
Toluene
Concen: 1.085 ppbv
RT: 6.950 min Scan# 2120
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 91 Resp: 48404

Ion	Ratio	Lower	Upper
91	100		
92	61.4	48.8	73.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion:117 Resp: 346200

Ion	Ratio	Lower	Upper
117	100		
82	65.1	53.8	80.8
119	32.2	25.4	38.0

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/17/2025
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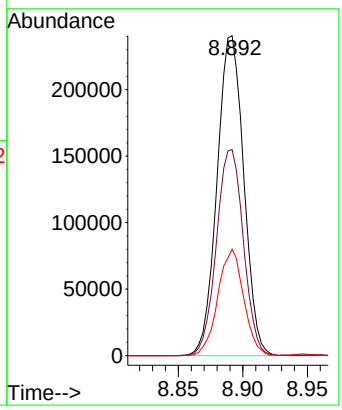
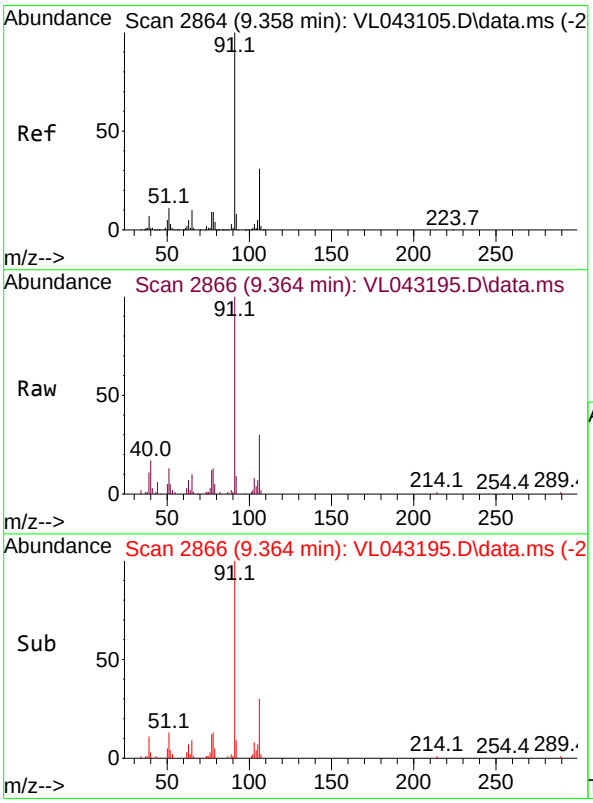
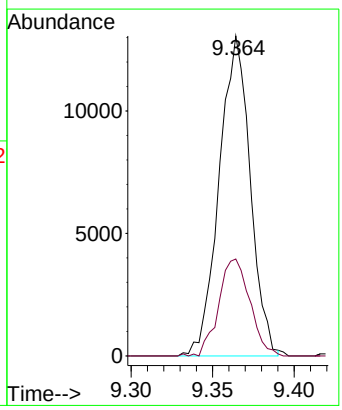


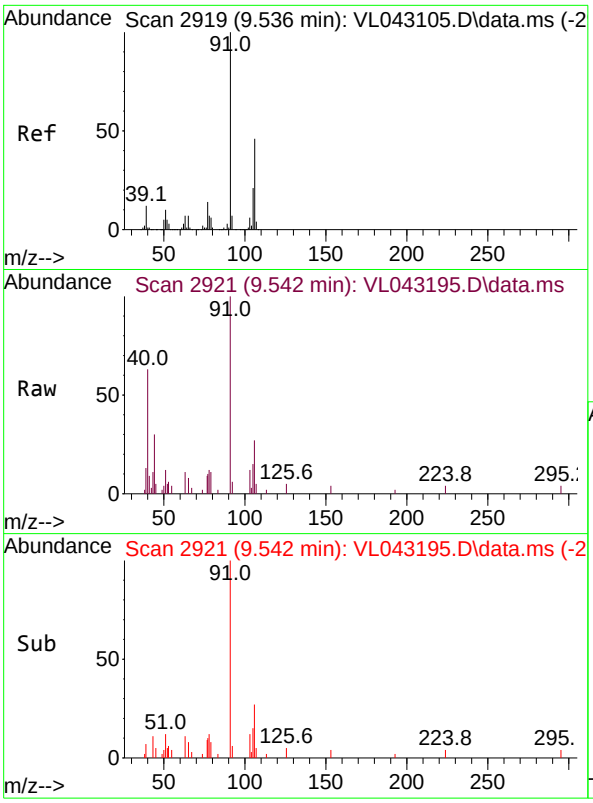


#58
Ethyl Benzene
Concen: 0.292 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 91 Resp: 17354

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.8	37.2





#59
m/p-Xylene
Concen: 0.104 ppbv m
RT: 9.542 min Scan# 29
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 91 Resp: 493

Ion	Ratio	Lower	Upper
91	100		
106	38.6	38.0	57.0

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/17/2025
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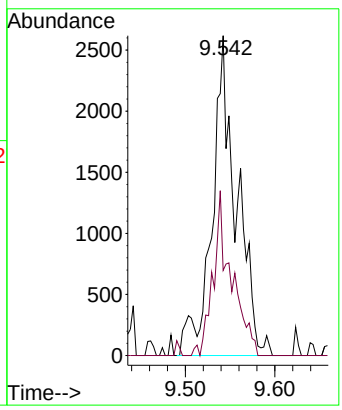
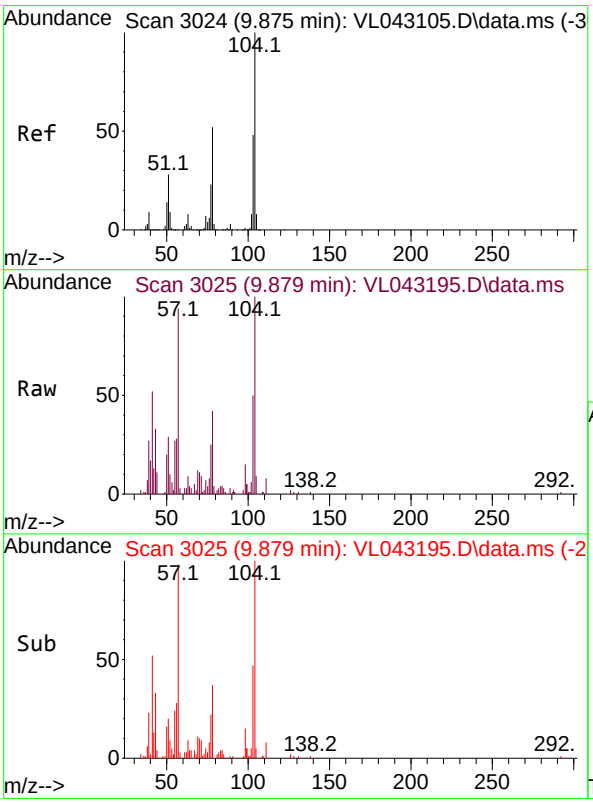
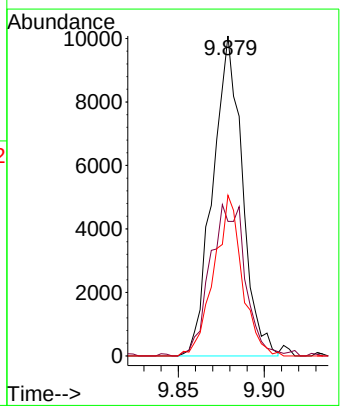


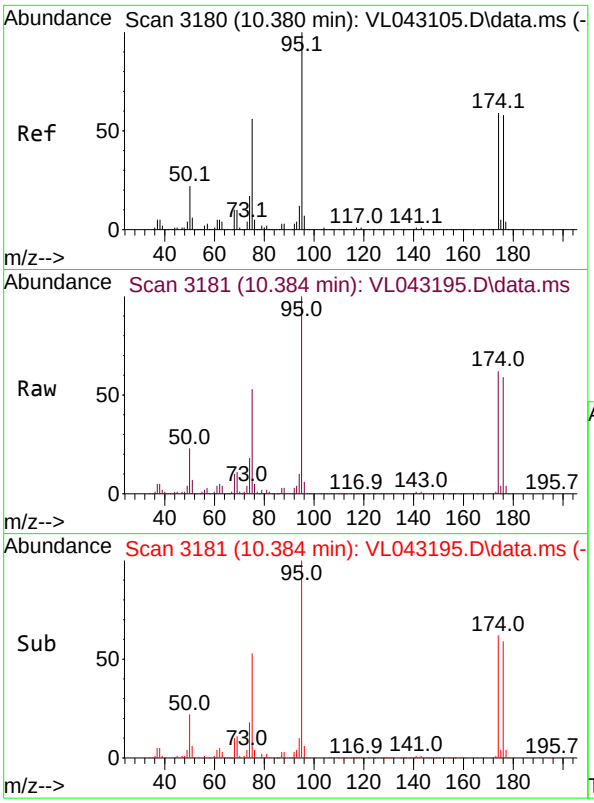


#61
Styrene
Concen: 0.570 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion:104 Resp: 12035

Ion	Ratio	Lower	Upper
104	100		
78	56.8	40.2	60.2
103	47.7	36.9	55.3

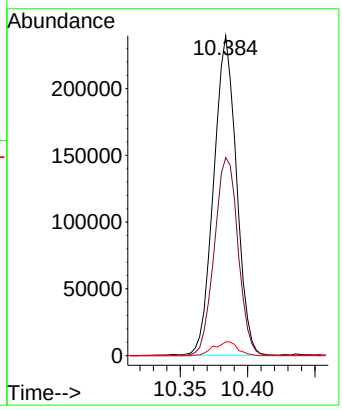




#68
1-Bromo-4-Fluorobenzene
Concen: 10.452 ppbv
RT: 10.384 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 95 Resp: 28125

Ion	Ratio	Lower	Upper
95	100		
174	64.7	48.3	72.5
175	4.6	3.8	5.8



Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

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Manual Integration Report

Sequence:	VL101425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL043105.D	m/p-Xylene	sam	10/16/2025 4:38:08 AM	MMdadoda	10/16/2025 4:40:57 AM	Peak Integrated by Software
VSTDICC002	VL043106.D	1,4-Dioxane	sam	10/16/2025 4:38:12 AM	MMdadoda	10/16/2025 4:41:02 AM	Peak Integrated by Software
VSTDICC002	VL043106.D	cis-1,3-Dichloropropene	sam	10/16/2025 4:38:12 AM	MMdadoda	10/16/2025 4:41:02 AM	Peak Integrated by Software
VSTDICC002	VL043106.D	m/p-Xylene	sam	10/16/2025 4:38:12 AM	MMdadoda	10/16/2025 4:41:02 AM	Peak Integrated by Software
VSTDICC001	VL043107.D	1,4-Dioxane	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICC001	VL043107.D	4-Methyl-2-Pentanone	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICC001	VL043107.D	m/p-Xylene	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICC001	VL043107.D	t-1,3-Dichloropropene	sam	10/16/2025 4:38:18 AM	MMdadoda	10/16/2025 4:41:06 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	1,4-Dioxane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	2,2,4-Trimethylpentane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	4-Methyl-2-Pentanone	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	cis-1,3-Dichloropropene	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	Cyclohexane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL101425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL043108.D	Heptane	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	m/p-Xylene	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	Methyl Methacrylate	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.5	VL043108.D	Tetrahydrofuran	sam	10/16/2025 4:38:22 AM	MMdadoda	10/16/2025 4:41:10 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	1,1,1-Trichloroethane	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Carbon Tetrachloride	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Naphthalene	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Tetrachloroethene	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.1	VL043109.D	Trichloroethene	sam	10/16/2025 4:38:26 AM	MMdadoda	10/16/2025 4:41:15 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	1,1,1-Trichloroethane	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	1,1,2,2-Tetrachloroethane	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	Carbon Tetrachloride	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC0.03	VL043110.D	Tetrachloroethene	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL101425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.03	VL043110.D	Trichloroethene	sam	10/16/2025 4:38:31 AM	MMdadoda	10/16/2025 4:41:20 AM	Peak Integrated by Software
VSTDICC015	VL043111.D	m/p-Xylene	sam	10/16/2025 4:38:35 AM	MMdadoda	10/16/2025 4:41:24 AM	Peak Integrated by Software
VSTDICV010	VL043112.D	Ethanol	sam	10/16/2025 4:38:41 AM	MMdadoda	10/16/2025 4:41:28 AM	Peak Integrated by Software
VSTDICV010	VL043112.D	m/p-Xylene	sam	10/16/2025 4:38:41 AM	MMdadoda	10/16/2025 4:41:28 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL043191.D	m/p-Xylene	sam	11/18/2025 10:10:01 AM	MMDadoda	11/18/2025 11:33:24 AM	Peak Integrated by Software
VL1113ABS01	VL043193.D	m/p-Xylene	sam	11/17/2025 8:38:39 PM	MMDadoda	11/18/2025 11:33:28 AM	Peak Integrated by Software
Q3627-02	VL043194.D	2-Hexanone	sam	11/17/2025 8:39:26 PM	MMDadoda	11/18/2025 11:33:32 AM	Peak Integrated by Software
Q3627-02	VL043194.D	4-Methyl-2-Pentanone	sam	11/17/2025 8:39:26 PM	MMDadoda	11/18/2025 11:33:32 AM	Peak Integrated by Software
Q3627-02	VL043194.D	Carbon Tetrachloride	sam	11/17/2025 8:39:26 PM	MMDadoda	11/18/2025 11:33:32 AM	Peak Integrated by Software
Q3627-02	VL043194.D	Ethyl Acetate	sam	11/17/2025 8:39:26 PM	MMDadoda	11/18/2025 11:33:32 AM	Peak Integrated by Software
Q3627-02	VL043194.D	Heptane	sam	11/17/2025 8:39:26 PM	MMDadoda	11/18/2025 11:33:32 AM	Peak Integrated by Software
Q3627-02	VL043194.D	m/p-Xylene	sam	11/17/2025 8:39:26 PM	MMDadoda	11/18/2025 11:33:32 AM	Peak Integrated by Software
Q3627-02	VL043194.D	Tetrachloroethene	sam	11/17/2025 8:39:26 PM	MMDadoda	11/18/2025 11:33:32 AM	Peak Integrated by Software
Q3627-02	VL043194.D	Tetrahydrofuran	sam	11/17/2025 8:39:26 PM	MMDadoda	11/18/2025 11:33:32 AM	Peak Integrated by Software
Q3627-02	VL043194.D	Toluene	sam	11/17/2025 8:39:26 PM	MMDadoda	11/18/2025 11:33:32 AM	Peak Integrated by Software
Q3627-02DUP	VL043195.D	2-Hexanone	sam	11/17/2025 8:39:15 PM	MMDadoda	11/18/2025 11:33:38 AM	Peak Integrated by Software
Q3627-02DUP	VL043195.D	Ethyl Acetate	sam	11/17/2025 8:39:15 PM	MMDadoda	11/18/2025 11:33:38 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3627-02DUP	VL043195.D	Heptane	sam	11/17/2025 8:39:15 PM	MMDadoda	11/18/2025 11:33:38 AM	Peak Integrated by Software
Q3627-02DUP	VL043195.D	m/p-Xylene	sam	11/17/2025 8:39:15 PM	MMDadoda	11/18/2025 11:33:38 AM	Peak Integrated by Software
Q3627-02DUP	VL043195.D	Tetrachloroethene	sam	11/17/2025 8:39:15 PM	MMDadoda	11/18/2025 11:33:38 AM	Peak Integrated by Software
Q3627-01	VL043196.D	4-Methyl-2-Pentanone	sam	11/17/2025 8:39:32 PM	MMDadoda	11/18/2025 11:33:41 AM	Peak Integrated by Software
Q3627-01	VL043196.D	Carbon Tetrachloride	sam	11/17/2025 8:39:32 PM	MMDadoda	11/18/2025 11:33:41 AM	Peak Integrated by Software
Q3627-01	VL043196.D	Chlorodifluoromethane	sam	11/17/2025 8:39:32 PM	MMDadoda	11/18/2025 11:33:41 AM	Peak Integrated by Software
Q3627-01	VL043196.D	Ethyl Acetate	sam	11/17/2025 8:39:32 PM	MMDadoda	11/18/2025 11:33:41 AM	Peak Integrated by Software
Q3627-01	VL043196.D	Toluene	sam	11/17/2025 8:39:32 PM	MMDadoda	11/18/2025 11:33:41 AM	Peak Integrated by Software
Q3627-03	VL043197.D	Carbon Tetrachloride	sam	11/17/2025 8:39:38 PM	MMDadoda	11/18/2025 11:33:45 AM	Peak Integrated by Software
Q3627-03	VL043197.D	Chlorodifluoromethane	sam	11/17/2025 8:39:38 PM	MMDadoda	11/18/2025 11:33:45 AM	Peak Integrated by Software
Q3627-03	VL043197.D	Propene	sam	11/17/2025 8:39:38 PM	MMDadoda	11/18/2025 11:33:45 AM	Peak Integrated by Software
Q3627-03	VL043197.D	Toluene	sam	11/17/2025 8:39:38 PM	MMDadoda	11/18/2025 11:33:45 AM	Peak Integrated by Software
Q3627-05DL	VL043199.D	2-Hexanone	sam	11/17/2025 8:39:01 PM	MMDadoda	11/18/2025 11:33:48 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3627-05DL	VL043199.D	4-Methyl-2-Pentanone	sam	11/17/2025 8:39:01 PM	MMDadoda	11/18/2025 11:33:48 AM	Peak Integrated by Software
Q3627-05DL	VL043199.D	Carbon Tetrachloride	sam	11/17/2025 8:39:01 PM	MMDadoda	11/18/2025 11:33:48 AM	Peak Integrated by Software
Q3627-05DL	VL043199.D	Toluene	sam	11/17/2025 8:39:01 PM	MMDadoda	11/18/2025 11:33:48 AM	Peak Integrated by Software
Q3627-05DL	VL043199.D	Trichloroethene	sam	11/17/2025 8:39:01 PM	MMDadoda	11/18/2025 11:33:48 AM	Peak Integrated by Software
Q3627-04	VL043200.D	1,1,1-Trichloroethane	sam	11/17/2025 8:38:51 PM	MMDadoda	11/18/2025 11:33:51 AM	Peak Integrated by Software
Q3627-04	VL043200.D	2-Hexanone	sam	11/17/2025 8:38:51 PM	MMDadoda	11/18/2025 11:33:51 AM	Peak Integrated by Software
Q3627-04	VL043200.D	4-Methyl-2-Pentanone	sam	11/17/2025 8:38:51 PM	MMDadoda	11/18/2025 11:33:51 AM	Peak Integrated by Software
Q3627-04	VL043200.D	Benzene	sam	11/17/2025 8:38:51 PM	MMDadoda	11/18/2025 11:33:51 AM	Peak Integrated by Software
Q3627-04	VL043200.D	m/p-Xylene	sam	11/17/2025 8:38:51 PM	MMDadoda	11/18/2025 11:33:51 AM	Peak Integrated by Software
Q3627-04	VL043200.D	o-Xylene	sam	11/17/2025 8:38:51 PM	MMDadoda	11/18/2025 11:33:51 AM	Peak Integrated by Software
Q3627-05	VL043201.D	Carbon Tetrachloride	sam	11/17/2025 8:38:44 PM	MMDadoda	11/18/2025 11:33:55 AM	Peak Integrated by Software
Q3627-05	VL043201.D	Cyclohexane	sam	11/17/2025 8:38:44 PM	MMDadoda	11/18/2025 11:33:55 AM	Peak Integrated by Software
Q3627-05	VL043201.D	m/p-Xylene	sam	11/17/2025 8:38:44 PM	MMDadoda	11/18/2025 11:33:55 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3627-05	VL043201.D	Tetrahydrofuran	sam	11/17/2025 8:38:44 PM	MMDadoda	11/18/2025 11:33:55 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL101425

Review By	Semsettin Yesilyurt	Review On	10/14/2025 2:02:14 PM				
Supervise By	Mahesh Dadoda	Supervise On	10/16/2025 4:41:37 AM				
SubDirectory	VL101425	HP Acquire Method	TO15AIR		HP Processing Method	VL101425AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2684
Initial Calibration Stds	AP2687,AP2688,AP2689
CCC	AP2687
Internal Standard/PEM	AP2684
ICV/I.BLK	AP2690
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043103.D	14 Oct 2025 08:42	SY/MD	Ok
2	VSTDICC0.5	VL043104.D	14 Oct 2025 09:57	SY/MD	Not Ok
3	VSTDICCC010	VL043105.D	14 Oct 2025 10:31	SY/MD	Ok,M
4	VSTDICC002	VL043106.D	14 Oct 2025 11:27	SY/MD	Ok,M
5	VSTDICC001	VL043107.D	14 Oct 2025 12:01	SY/MD	Ok,M
6	VSTDICC0.5	VL043108.D	14 Oct 2025 12:34	SY/MD	Ok,M
7	VSTDICC0.1	VL043109.D	14 Oct 2025 13:08	SY/MD	Ok,M
8	VSTDICC0.03	VL043110.D	14 Oct 2025 13:42	SY/MD	Ok,M
9	VSTDICC015	VL043111.D	14 Oct 2025 14:18	SY/MD	Ok,M
10	VSTDICV010	VL043112.D	14 Oct 2025 14:51	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 # VL111325

Review By	Semsettin Yesilyurt	Review On	11/17/2025 8:43:01 PM				
Supervise By	Mahesh Dadoda	Supervise On	11/18/2025 11:34:05 AM				
SubDirectory	VL111325	HP Acquire Method	TO15AIR		HP Processing Method	VL101425AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2684
Initial Calibration Stds	AP2687,AP2688,AP2689
CCC	AP2687
Internal Standard/PEM	AP2684
ICV/I.BLK	AP2690
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043190.D	13 Nov 2025 07:50	SY/MD	Ok
2	VSTDCCC010	VL043191.D	13 Nov 2025 09:01	SY/MD	Ok,M
3	VL1113ABL01	VL043192.D	13 Nov 2025 09:47	SY/MD	Ok
4	VL1113ABS01	VL043193.D	13 Nov 2025 10:53	SY/MD	Ok,M
5	Q3627-02	VL043194.D	13 Nov 2025 11:52	SY/MD	Ok,M
6	Q3627-02DUP	VL043195.D	13 Nov 2025 12:28	SY/MD	Ok,M
7	Q3627-01	VL043196.D	13 Nov 2025 13:04	SY/MD	Ok,M
8	Q3627-03	VL043197.D	13 Nov 2025 13:40	SY/MD	Ok,M
9	Q3627-04DL	VL043198.D	13 Nov 2025 14:14	SY/MD	Ok
10	Q3627-05DL	VL043199.D	13 Nov 2025 14:47	SY/MD	Ok,M
11	Q3627-04	VL043200.D	13 Nov 2025 15:23	SY/MD	Dilution
12	Q3627-05	VL043201.D	13 Nov 2025 15:58	SY/MD	Dilution

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL101425

Review By	Semsettin Yesilyurt	Review On	10/14/2025 2:02:14 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/16/2025 4:41:37 AM		
SubDirectory	VL101425	HP Acquire Method	TO15AIR	HP Processing Method	VL101425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2684
Initial Calibration Stds	AP2687,AP2688,AP2689
CCC	AP2687
Internal Standard/PEM	AP2684
ICV/I.BLK	AP2690
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043103.D	14 Oct 2025 08:42		SY/MD	Ok
2	VSTDICC0.5	VSTDICC0.5	VL043104.D	14 Oct 2025 09:57	not use	SY/MD	Not Ok
3	VSTDICCC010	VSTDICCC010	VL043105.D	14 Oct 2025 10:31		SY/MD	Ok,M
4	VSTDICC002	VSTDICC002	VL043106.D	14 Oct 2025 11:27		SY/MD	Ok,M
5	VSTDICC001	VSTDICC001	VL043107.D	14 Oct 2025 12:01		SY/MD	Ok,M
6	VSTDICC0.5	VSTDICC0.5	VL043108.D	14 Oct 2025 12:34		SY/MD	Ok,M
7	VSTDICC0.1	VSTDICC0.1	VL043109.D	14 Oct 2025 13:08		SY/MD	Ok,M
8	VSTDICC0.03	VSTDICC0.03	VL043110.D	14 Oct 2025 13:42		SY/MD	Ok,M
9	VSTDICC015	VSTDICC015	VL043111.D	14 Oct 2025 14:18		SY/MD	Ok,M
10	VSTDICV010	ICVVL101425	VL043112.D	14 Oct 2025 14:51		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 # VL111325

Review By	Semsettin Yesilyurt	Review On	11/17/2025 8:43:01 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/18/2025 11:34:05 AM		
SubDirectory	VL111325	HP Acquire Method	TO15AIR	HP Processing Method	VL101425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2684
Initial Calibration Stds	AP2687,AP2688,AP2689
CCC	AP2687
Internal Standard/PEM	AP2684
ICV/I.BLK	AP2690
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043190.D	13 Nov 2025 07:50		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL043191.D	13 Nov 2025 09:01		SY/MD	Ok,M
3	VL1113ABL01	VL1113ABL01	VL043192.D	13 Nov 2025 09:47		SY/MD	Ok
4	VL1113ABS01	VL1113ABS01	VL043193.D	13 Nov 2025 10:53		SY/MD	Ok,M
5	Q3627-02	UNIT-7-IA-1	VL043194.D	13 Nov 2025 11:52		SY/MD	Ok,M
6	Q3627-02DUP	UNIT-7-IA-1DUP	VL043195.D	13 Nov 2025 12:28		SY/MD	Ok,M
7	Q3627-01	UNIT-8-IA-1	VL043196.D	13 Nov 2025 13:04		SY/MD	Ok,M
8	Q3627-03	AA-East	VL043197.D	13 Nov 2025 13:40		SY/MD	Ok,M
9	Q3627-04DL	UNIT-8-SS-1DL	VL043198.D	13 Nov 2025 14:14		SY/MD	Ok
10	Q3627-05DL	UNIT-7-SS-1DL	VL043199.D	13 Nov 2025 14:47		SY/MD	Ok,M
11	Q3627-04	UNIT-8-SS-1	VL043200.D	13 Nov 2025 15:23	Need 10X	SY/MD	Dilution
12	Q3627-05	UNIT-7-SS-1	VL043201.D	13 Nov 2025 15:58	Need 10X	SY/MD	Dilution

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 : Q3627

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: VL111325,

Standard ID :
AP2684,AP2687,AP2688,AP2689,AP2690,

Chemical ID :
A1117,A1138,A1142,A1143,

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Fax : 908 789 8922

Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
47	Internal Standard/Surrogate Mix-80 ppbv	AP2684	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/03/2025

FROM 2.40000psi of A1138 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2396	TO-15 15 PPBV CAL MIX	AP2687	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/03/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1142 = Final Quantity: 30.000 psi

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Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2397	TO-15 -2 PPBV CAL.MIX	AP2688	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/03/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2687 = Final Quantity: 30.000 psi

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2668	0.5 PPBV CAL.MIX	AP2689	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/03/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2687 = Final Quantity: 30.000 psi

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Fax : 908 789 8922

Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2396	TO-15 15 PPBV CAL MIX	AP2690	10/14/2025	11/14/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/03/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1143 = Final Quantity: 30.000 psi

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC275465	12/16/2025	07/15/2025 / SAM	07/14/2025 / SAM	A1138

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)	051925-001A	10/01/2026	10/13/2025 / sam	10/13/2025 / sam	A1142

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)	051925-001B	10/01/2026	10/13/2025 / sam	10/13/2025 / sam	A1143

Rec: 07/14/25

CUSTOMGAS SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A 1138

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: 012/16/2025

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

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

A1142
Rec 10/13/25

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: BC993219
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 10/01/2025
Expiration Date: 10/01/2026
Lot Number: 051925-001A

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	051925-001	Email051925	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	508 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	515 ppb +/- 50 ppb	
Acrolein	500 ppb	514 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	519 ppb +/- 50 ppb	
Allyl chloride	500 ppb	499 ppb +/- 50 ppb	
Benzene	500 ppb	475 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	480 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	500 ppb +/- 50 ppb	
Bromoform	500 ppb	486 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	495 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	512 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	510 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	510 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	476 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	497 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	483 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	488 ppb +/- 50 ppb	
Chloroform	500 ppb	483 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	512 ppb +/- 50 ppb	
Cyclohexane	500 ppb	474 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	482 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	500 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	480 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	481 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	499 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	483 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	488 ppb +/- 50 ppb	
1,1-Dichlororethylene	500 ppb	484 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	480 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	479 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	481 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	507 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	457 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	496 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	475 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	477 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	513 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	488 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	497 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	477 ppb +/- 50 ppb	
n-Heptane	500 ppb	478 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	480 ppb +/- 50 ppb	
2-Hexanone	500 ppb	482 ppb +/- 50 ppb	
n-Hexane	500 ppb	476 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	502 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	507 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	515 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	496 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	499 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	487 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	484 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	512 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	474 ppb +/- 50 ppb	
Methylene chloride	500 ppb	489 ppb +/- 50 ppb	
Naphthalene	500 ppb	506 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	510 ppb +/- 50 ppb	
Propylene	500 ppb	499 ppb +/- 50 ppb	
Styrene	500 ppb	477 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	515 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	475 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	478 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	504 ppb +/- 50 ppb	
Toluene	500 ppb	482 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	485 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	485 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	485 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	479 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	499 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	486 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	485 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	489 ppb +/- 50 ppb	
2,2,4- Trimethylpentane	500 ppb	480 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	490 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	496 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	507 ppb +/- 50 ppb	
m-Xylene	500 ppb	484 ppb +/- 50 ppb	
o-Xylene	500 ppb	471 ppb +/- 50 ppb	
p-Xylene	500 ppb	477 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:**	+/- 10 %
	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: 10/01/2025

*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

A 1143
Rec 10/13/25

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: BC785565
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 10/01/2025
Expiration Date: 10/01/2026
Lot Number: 051925-001B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	051925-001	Email051925	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	525 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	525 ppb +/- 50 ppb	
Acrolein	500 ppb	534 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	530 ppb +/- 50 ppb	
Allyl chloride	500 ppb	517 ppb +/- 50 ppb	
Benzene	500 ppb	492 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	497 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	518 ppb +/- 50 ppb	
Bromoform	500 ppb	503 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	512 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	523 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	510 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	520 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	520 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	493 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	515 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	500 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	496 ppb +/- 50 ppb	
Chloroform	500 ppb	500 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	523 ppb +/- 50 ppb	
Cyclohexane	500 ppb	491 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	499 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	518 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	497 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	498 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	516 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	500 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	505 ppb +/- 50 ppb	
1,1-Dichlororethylene	500 ppb	501 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	497 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	496 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	498 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	525 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	473 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	513 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	492 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	494 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	523 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	505 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	515 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	494 ppb +/- 50 ppb	
n-Heptane	500 ppb	495 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	497 ppb +/- 50 ppb	
2-Hexanone	500 ppb	499 ppb +/- 50 ppb	
n-Hexane	500 ppb	493 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	520 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	518 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	524 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	514 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	517 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	504 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	501 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	523 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	491 ppb +/- 50 ppb	
Methylene chloride	500 ppb	506 ppb +/- 50 ppb	
Naphthalene	500 ppb	517 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	519 ppb +/- 50 ppb	
Propylene	500 ppb	516 ppb +/- 50 ppb	
Styrene	500 ppb	494 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	525 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	492 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	495 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	510 ppb +/- 50 ppb	
Toluene	500 ppb	499 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	502 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	502 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	503 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	496 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	517 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	503 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	502 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	506 ppb +/- 50 ppb	
2,2,4- Trimethylpentane	500 ppb	497 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	507 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	514 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	515 ppb +/- 50 ppb	
m-Xylene	500 ppb	501 ppb +/- 50 ppb	
o-Xylene	500 ppb	488 ppb +/- 50 ppb	
p-Xylene	500 ppb	494 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:**	+/- 10 %
	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: 10/01/2025

*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 : Q3627

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/14/2025	B2510051	Q3627-05	-10.4	10793	1.4 L	10213		C2504011	**VL042492.D** Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D
11/14/2025	B2510051	Q3627-04	-11.2	10650	1.4 L	10712		C2504011	**VL042492.D** Seq :vl050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D
11/14/2025	B2510052	Q3627-01	-8.0	10608	6 L	10249		C2509003	**VL043048.D** Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D
11/14/2025	B2510052	Q3627-03	-2.7	10590	6 L	10240		C2509003	**VL043048.D** Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D
11/14/2025	B2510052	Q3627-02	-6.7	10321	6 L	10771		C2509003	**VL043048.D** Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D

Canister Cleaning

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

Canister Batch : C2504011

Type of Canister : 1.4 L

Cleaning Date : 04/22/2025

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
10682	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-01	10669	VL042492.D
10793	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3627-05	10669	VL042492.D
10795	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3655-02	10669	VL042492.D
10794	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-12	10669	VL042492.D
10763	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10677	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-04	10669	VL042492.D
10669	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3655-01	10669	VL042492.D
10673	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-09	10669	VL042492.D
10046	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-08	10669	VL042492.D
10450	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-03	10669	VL042492.D
10416	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-10	10669	VL042492.D
10118	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10679	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3655-06	10669	VL042492.D
10471	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-07	10669	VL042492.D
10123	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10454	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10455	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10413	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3626-02	10669	VL042492.D
10652	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10452	-30	04/23/2025	05/06/2025	-30	04/24/2025		10669	VL042492.D
10650	-30	04/23/2025	05/06/2025	-30	04/24/2025	Q3627-04	10669	VL042492.D

Canister Cleaning

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

Canister Batch : C2509003

Type of Canister : 6 L

Cleaning Date : 09/24/2025

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
10321	-30	09/25/2025	10/07/2025	-30	09/26/2025	Q3627-02	10590	VL043048.D
10280	-30	09/25/2025	10/07/2025	-29	09/26/2025	Q3651-06	10590	VL043048.D
10315	-30	09/25/2025	10/07/2025	-30	09/26/2025	Q3651-05	10590	VL043048.D
10590	-30	09/25/2025	10/07/2025	-30	09/26/2025	Q3627-03	10590	VL043048.D
10608	-30	09/25/2025	10/07/2025	-30	09/26/2025	Q3627-01	10590	VL043048.D
10320	-30	09/25/2025	10/07/2025	-30	09/26/2025	Q3651-04	10590	VL043048.D

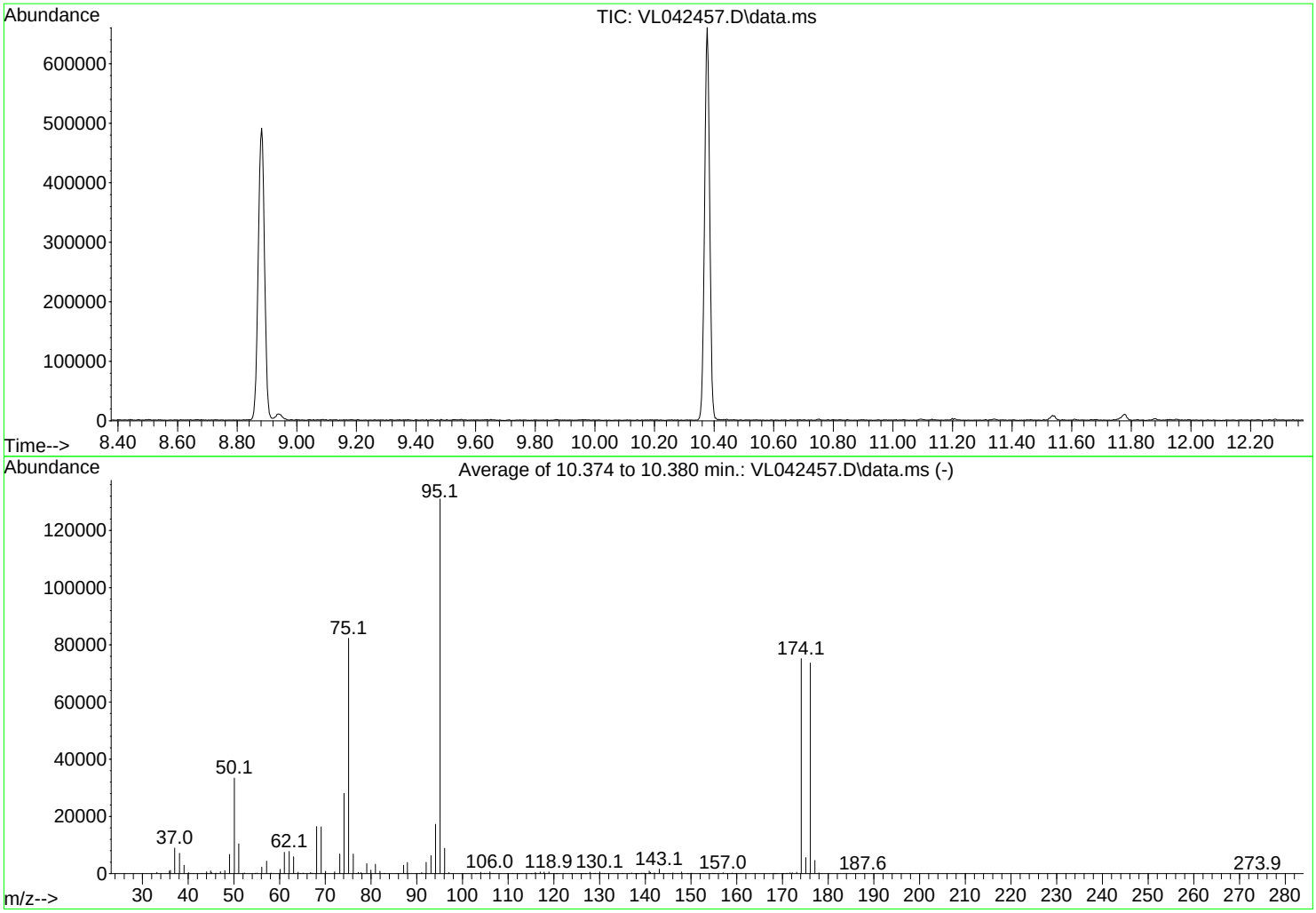
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042457.D
Acq On : 01 May 2025 08:19
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

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



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.5	33424	PASS
75	95	30	66	62.8	82325	PASS
95	95	100	100	100.0	131013	PASS
96	95	5	9	6.8	8845	PASS
173	174	0.00	2	0.6	483	PASS
174	95	50	120	57.4	75195	PASS
175	174	4	9	7.5	5628	PASS
176	174	93	101	97.9	73643	PASS
177	176	5	9	6.3	4652	PASS

Response Factor Report MSVOA_L

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

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

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

Response Factor Report MSVOA_L

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

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

(#) = Out of Range

Quantitation Report (QT Reviewed)

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

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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

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

Quantitation Report (QT Reviewed)

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

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

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

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

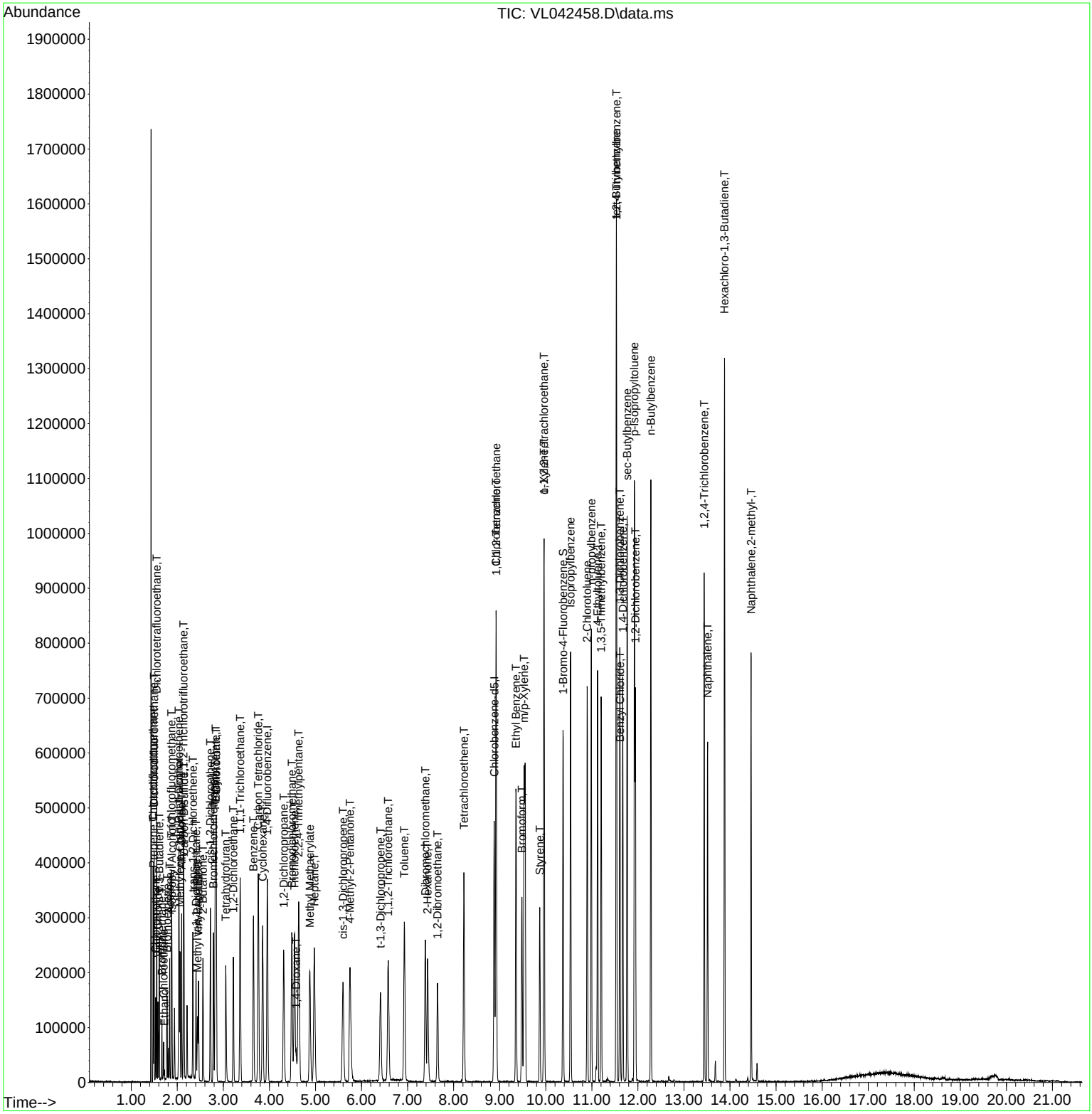
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	73220	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	201951	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	174624	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	159777	9.869	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	23859	1.969	ppbv		100
3) Chlorodifluoromethane	1.476	51	26655	2.081	ppbv		95
4) Chloromethane	1.531	50	10751	2.123	ppbv		95
5) Vinyl Chloride	1.580	62	9122	1.789	ppbv		92
6) Bromomethane	1.667	94	4793	1.990	ppbv	#	62
7) Chloroethane	1.703	64	3972	2.110	ppbv		94
8) Dichlorotetrafluoroethane	1.554	85	20529	2.055	ppbv		100
9) Propene	1.482	41	9234	2.204	ppbv		95
10) Heptane	4.978	43	23329m	2.146	ppbv		
11) Trichlorofluoromethane	1.877	101	22375	2.070	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.140	101	18230	2.042	ppbv		97
13) Ethanol	1.722	45	2099	2.468	ppbv		94
14) Bromoethene	1.780	108	6686	2.029	ppbv	#	96
15) Acetone	1.835	43	29607	2.215	ppbv		99
16) 1,3-Butadiene	1.609	39	12245	2.077	ppbv		92
17) tert-Butyl alcohol	2.042	59	23722	2.014	ppbv	#	93
18) 1,1-Dichloroethene	2.033	96	8303	1.992	ppbv		92
19) Isopropyl Alcohol	1.884	45	14288	1.931	ppbv		99
20) Methylene Chloride	2.062	84	7590	1.889	ppbv		96
21) Allyl Chloride	2.094	41	17050	1.983	ppbv		96
22) trans-1,2-Dichloroethene	2.340	96	9444	1.940	ppbv		97
23) Vinyl Acetate	2.463	43	26502	2.128	ppbv		98
24) 1,1-Dichloroethane	2.408	63	20027	2.016	ppbv		98
25) Ethyl Acetate	2.839	43	43122	2.015	ppbv		97
26) Hexane	2.822	57	19691	2.112	ppbv		95
27) Carbon Disulfide	2.149	76	21945	2.017	ppbv	#	43
28) Methyl tert-Butyl Ether	2.441	73	11119	1.985	ppbv		94
29) Chloroform	2.848	83	35127	2.010	ppbv		86
30) Cyclohexane	3.858	84	16056	2.060	ppbv		95
31) cis-1,2-Dichloroethene	2.719	61	22619	2.079	ppbv		95
32) 1,1,1-Trichloroethane	3.369	97	36768	1.940	ppbv		99
34) 2-Butanone	2.557	43	31242	2.139	ppbv		95
35) Carbon Tetrachloride	3.764	117	35326	2.011	ppbv		97
36) Benzene	3.661	78	41848	2.196	ppbv	#	88
37) 1,2-Dichloroethane	3.217	62	31049	2.114	ppbv		99
38) Trichloroethene	4.544	130	16311m	2.244	ppbv		
39) 1,2-Dichloropropane	4.311	63	14611	2.047	ppbv		91
40) 1,4-Dioxane	4.593	88	6957m	2.096	ppbv		
41) Tetrahydrofuran	3.059	42	15641m	2.258	ppbv		
42) Bromodichloromethane	4.489	83	37615	2.096	ppbv	#	99
43) Methyl Methacrylate	4.884	69	14610m	2.059	ppbv		
44) 2,2,4-Trimethylpentane	4.638	57	65967	2.142	ppbv		99
45) t-1,3-Dichloropropene	6.409	75	18560m	1.987	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	22184	2.000	ppbv		93
47) 1,1,2-Trichloroethane	6.587	97	17307m	2.212	ppbv		
48) Dibromochloromethane	7.386	129	27174	2.057	ppbv		99
49) Bromoform	9.483	173	23126	2.088	ppbv		98
50) 4-Methyl-2-Pentanone	5.758	43	39798	2.155	ppbv		99
51) 2-Hexanone	7.441	43	32196	2.177	ppbv	#	97
52) Tetrachloroethene	8.224	164	13670	1.885	ppbv		93
53) Toluene	6.930	91	41392	2.052	ppbv		97
54) 1,2-Dibromoethane	7.652	107	24650	2.049	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.927	131	20822	2.019	ppbv		95
57) Chlorobenzene	8.920	112	36187	2.062	ppbv	#	88
58) Ethyl Benzene	9.354	91	61177	2.096	ppbv		91
59) m/p-Xylene	9.551	91	105185m	4.299	ppbv		
60) o-Xylene	9.963	91	53051	2.169	ppbv		99
61) Styrene	9.872	104	18776	2.054	ppbv		97
62) Isopropylbenzene	10.539	105	75626	2.140	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.963	83	34562	2.178	ppbv		98
64) n-propylbenzene	10.989	120	19160	2.226	ppbv		94
65) tert-Butylbenzene	11.532	119	70813	2.246	ppbv		97
66) Benzyl Chloride	11.613	91	6794	1.864	ppbv		97
67) sec-Butylbenzene	11.769	105	101458	2.264	ppbv		99
69) p-Isopropyltoluene	11.924	119	84026	2.226	ppbv		98
70) n-Butylbenzene	12.280	91	89400	2.291	ppbv		97
71) 2-Chlorotoluene	10.901	91	59271	2.139	ppbv		97
72) 4-Ethyltoluene	11.124	105	63833	2.210	ppbv		98
73) 1,3,5-Trimethylbenzene	11.205	105	56516	2.225	ppbv		94
74) 1,2,4-Trimethylbenzene	11.536	105	72485	2.359	ppbv		94
75) 1,3-Dichlorobenzene	11.607	146	36885	2.156	ppbv		97
76) 1,4-Dichlorobenzene	11.671	146	33728	2.083	ppbv		94
77) 1,2-Dichlorobenzene	11.947	146	36078	2.154	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	37360	2.234	ppbv		99
79) Naphthalene	13.513	128	75248	2.920	ppbv		96
80) Naphthalene,2-methyl-	14.458	142	54922	2.857	ppbv		96
81) 1,2,4-Trichlorobenzene	13.442	180	33063	2.396	ppbv		95

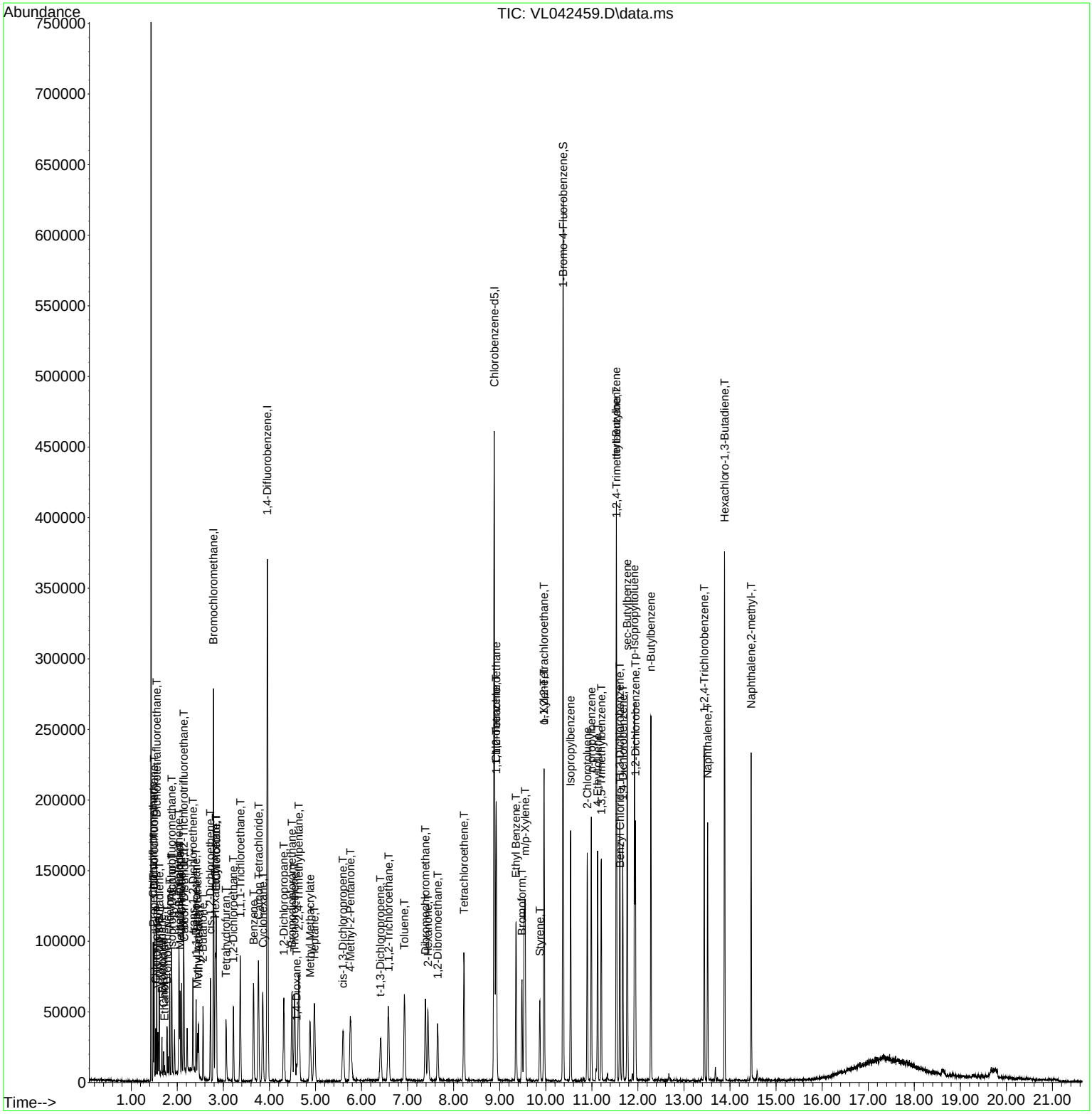
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042459.D
Acq On : 01 May 2025 09:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	71499	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	200111	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.881	117	170872	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	158600	10.011	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	11796	0.997	ppbv		96
3) Chlorodifluoromethane	1.476	51	13375	1.069	ppbv		96
4) Chloromethane	1.531	50	4975	1.006	ppbv		95
5) Vinyl Chloride	1.576	62	4469	0.898	ppbv		100
6) Bromomethane	1.667	94	2570	1.092	ppbv		86
7) Chloroethane	1.703	64	1943	1.057	ppbv		94
8) Dichlorotetrafluoroethane	1.554	85	9804	1.005	ppbv		91
9) Propene	1.482	41	4331	1.058	ppbv		88
10) Heptane	4.975	43	11681m	1.101	ppbv		
11) Trichlorofluoromethane	1.877	101	10649m	1.009	ppbv		
12) 1,1,2-Trichlorotrifluo...	2.140	101	8821	1.012	ppbv		97
13) Ethanol	1.719	45	975	1.174	ppbv	#	52
14) Bromoethene	1.780	108	3164	0.983	ppbv	#	91
15) Acetone	1.835	43	14974	1.147	ppbv		98
16) 1,3-Butadiene	1.609	39	6248	1.085	ppbv		96
17) tert-Butyl alcohol	2.039	59	11546	1.004	ppbv	#	91
18) 1,1-Dichloroethene	2.033	96	4200	1.032	ppbv		86
19) Isopropyl Alcohol	1.884	45	7775	1.076	ppbv		99
20) Methylene Chloride	2.059	84	3909	0.996	ppbv		86
21) Allyl Chloride	2.094	41	8443	1.006	ppbv		94
22) trans-1,2-Dichloroethene	2.337	96	5305	1.116	ppbv		88
23) Vinyl Acetate	2.460	43	10876	0.894	ppbv	#	94
24) 1,1-Dichloroethane	2.405	63	10477	1.080	ppbv		97
25) Ethyl Acetate	2.835	43	21761	1.041	ppbv		99
26) Hexane	2.822	57	9223	1.013	ppbv		97
27) Carbon Disulfide	2.149	76	10342	0.973	ppbv	#	21
28) Methyl tert-Butyl Ether	2.441	73	6101	1.115	ppbv		93
29) Chloroform	2.848	83	17744	1.040	ppbv		97
30) Cyclohexane	3.852	84	7139	0.938	ppbv		88
31) cis-1,2-Dichloroethene	2.719	61	11472	1.080	ppbv		87
32) 1,1,1-Trichloroethane	3.366	97	17881	0.966	ppbv		98
34) 2-Butanone	2.560	43	14641	1.012	ppbv		94
35) Carbon Tetrachloride	3.755	117	18704	1.075	ppbv	#	76
36) Benzene	3.654	78	19493	1.032	ppbv	#	94
37) 1,2-Dichloroethane	3.214	62	15116	1.039	ppbv		98
38) Trichloroethene	4.541	130	7278m	1.011	ppbv		
39) 1,2-Dichloropropane	4.302	63	8103m	1.145	ppbv		
40) 1,4-Dioxane	4.593	88	3703m	1.126	ppbv		
41) Tetrahydrofuran	3.062	42	7091m	1.033	ppbv		
42) Bromodichloromethane	4.486	83	18427	1.036	ppbv	#	81
43) Methyl Methacrylate	4.874	69	6829m	0.971	ppbv		
44) 2,2,4-Trimethylpentane	4.635	57	31820m	1.043	ppbv		
45) t-1,3-Dichloropropene	6.409	75	8461m	0.914	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	10781m	0.981	ppbv		
47) 1,1,2-Trichloroethane	6.583	97	8183m	1.055	ppbv		
48) Dibromochloromethane	7.386	129	12859m	0.982	ppbv		
49) Bromoform	9.483	173	10709	0.976	ppbv		97
50) 4-Methyl-2-Pentanone	5.768	43	19618m	1.072	ppbv		
51) 2-Hexanone	7.448	43	15091m	1.030	ppbv		
52) Tetrachloroethene	8.221	164	6780	0.943	ppbv		86
53) Toluene	6.930	91	19390	0.970	ppbv		97
54) 1,2-Dibromoethane	7.655	107	11980	1.005	ppbv		91
56) 1,1,1,2-Tetrachloroethane	8.920	131	10811	1.071	ppbv		94
57) Chlorobenzene	8.917	112	18111	1.055	ppbv		90
58) Ethyl Benzene	9.354	91	27914	0.978	ppbv		97
59) m/p-Xylene	9.548	91	47105m	1.968	ppbv		
60) o-Xylene	9.962	91	23806	0.995	ppbv		98
61) Styrene	9.872	104	8537	0.954	ppbv		98
62) Isopropylbenzene	10.539	105	34679	1.003	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.962	83	16837	1.084	ppbv		98
64) n-propylbenzene	10.985	120	8958	1.064	ppbv		86
65) tert-Butylbenzene	11.529	119	30604	0.992	ppbv		95
66) Benzyl Chloride	11.613	91	3486	0.978	ppbv	#	96
67) sec-Butylbenzene	11.765	105	43740	0.998	ppbv		98
69) p-Isopropyltoluene	11.927	119	37011	1.002	ppbv		99
70) n-Butylbenzene	12.280	91	37892	0.992	ppbv		97
71) 2-Chlorotoluene	10.898	91	26813	0.989	ppbv		99
72) 4-Ethyltoluene	11.124	105	28149	0.996	ppbv		96
73) 1,3,5-Trimethylbenzene	11.202	105	25073	1.009	ppbv		97
74) 1,2,4-Trimethylbenzene	11.535	105	30550	1.016	ppbv		92
75) 1,3-Dichlorobenzene	11.607	146	17456	1.043	ppbv		98
76) 1,4-Dichlorobenzene	11.671	146	16151	1.019	ppbv		99
77) 1,2-Dichlorobenzene	11.947	146	17207	1.050	ppbv		94
78) Hexachloro-1,3-Butadiene	13.879	225	18472	1.129	ppbv		98
79) Naphthalene	13.513	128	28316	1.123	ppbv	#	94
80) Naphthalene,2-methyl-	14.458	142	15804	0.840	ppbv		93
81) 1,2,4-Trichlorobenzene	13.439	180	13644	1.011	ppbv		96

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

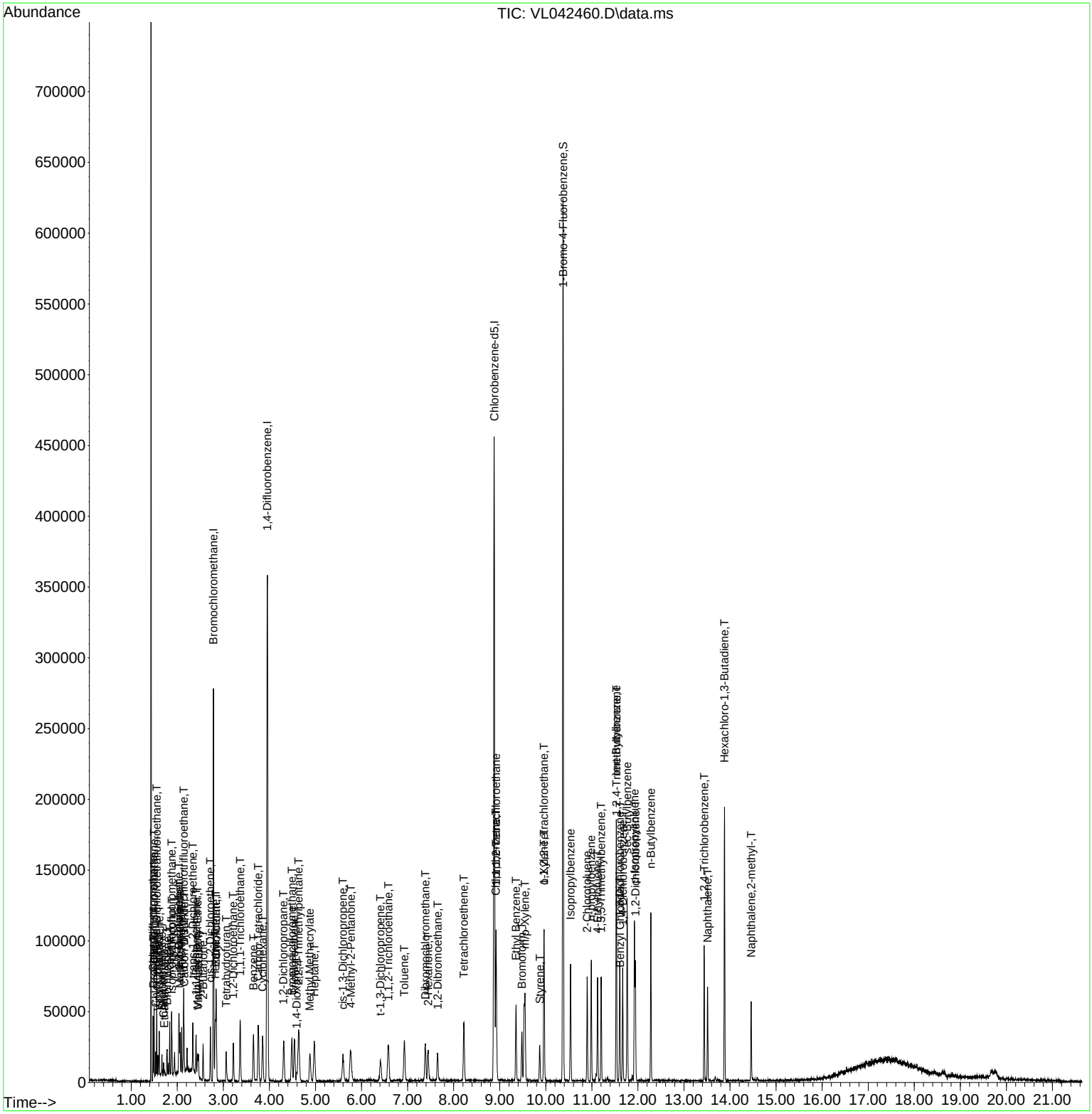
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042460.D
Acq On : 01 May 2025 10:08
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:41:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	68913	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	193701	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	166625	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	150277	9.728	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	6501	0.570	ppbv		94
3) Chlorodifluoromethane	1.476	51	6500	0.539	ppbv		99
4) Chloromethane	1.535	50	2542	0.533	ppbv		95
5) Vinyl Chloride	1.580	62	2441	0.509	ppbv		92
6) Bromomethane	1.667	94	1202	0.530	ppbv		97
7) Chloroethane	1.703	64	862	0.486	ppbv	#	68
8) Dichlorotetrafluoroethane	1.554	85	4979	0.530	ppbv		93
9) Propene	1.486	41	2017	0.511	ppbv		96
10) Heptane	4.982	43	4397m	0.430	ppbv		
11) Trichlorofluoromethane	1.878	101	5720	0.562	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.137	101	4540	0.540	ppbv		94
13) Ethanol	1.722	45	474m	0.592	ppbv		
14) Bromoethene	1.784	108	1680	0.542	ppbv	#	87
15) Acetone	1.839	43	7680	0.610	ppbv	#	82
16) 1,3-Butadiene	1.609	39	3044	0.549	ppbv		86
17) tert-Butyl alcohol	2.046	59	6256	0.564	ppbv	#	91
18) 1,1-Dichloroethene	2.036	96	2240	0.571	ppbv		94
19) Isopropyl Alcohol	1.887	45	4208	0.604	ppbv	#	96
20) Methylene Chloride	2.062	84	2594	0.686	ppbv	#	80
21) Allyl Chloride	2.098	41	4420	0.546	ppbv	#	93
22) trans-1,2-Dichloroethene	2.340	96	2554	0.557	ppbv		95
23) Vinyl Acetate	2.460	43	6541	0.558	ppbv	#	95
24) 1,1-Dichloroethane	2.412	63	4933	0.528	ppbv		98
25) Ethyl Acetate	2.842	43	10344	0.514	ppbv	#	96
26) Hexane	2.829	57	4403	0.502	ppbv		95
27) Carbon Disulfide	2.153	76	5201	0.508	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	2762	0.524	ppbv	#	82
29) Chloroform	2.852	83	8791	0.535	ppbv		92
30) Cyclohexane	3.855	84	3910m	0.533	ppbv		
31) cis-1,2-Dichloroethene	2.726	61	5345m	0.522	ppbv		
32) 1,1,1-Trichloroethane	3.366	97	8846m	0.496	ppbv		
34) 2-Butanone	2.564	43	7766	0.554	ppbv		93
35) Carbon Tetrachloride	3.768	117	8286	0.492	ppbv		86
36) Benzene	3.655	78	8951	0.490	ppbv	#	92
37) 1,2-Dichloroethane	3.224	62	7149	0.507	ppbv	#	95
38) Trichloroethene	4.548	130	3769m	0.541	ppbv		
39) 1,2-Dichloropropane	4.321	63	3561m	0.520	ppbv		
40) 1,4-Dioxane	4.619	88	1701m	0.534	ppbv		
41) Tetrahydrofuran	3.069	42	3187m	0.480	ppbv		
42) Bromodichloromethane	4.496	83	8212	0.477	ppbv		93
43) Methyl Methacrylate	4.891	69	3179m	0.467	ppbv		
44) 2,2,4-Trimethylpentane	4.648	57	14435m	0.489	ppbv		
45) t-1,3-Dichloropropene	6.415	75	4238m	0.473	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	5091m	0.479	ppbv		
47) 1,1,2-Trichloroethane	6.584	97	3606m	0.480	ppbv		
48) Dibromochloromethane	7.390	129	6304m	0.498	ppbv		
49) Bromoform	9.484	173	5228	0.492	ppbv		97
50) 4-Methyl-2-Pentanone	5.771	43	8248m	0.466	ppbv		
51) 2-Hexanone	7.454	43	6283m	0.443	ppbv		
52) Tetrachloroethene	8.221	164	3151m	0.453	ppbv		
53) Toluene	6.933	91	9052m	0.468	ppbv		
54) 1,2-Dibromoethane	7.652	107	5705	0.494	ppbv		83
56) 1,1,1,2-Tetrachloroethane	8.924	131	5152	0.524	ppbv	#	92
57) Chlorobenzene	8.924	112	9173	0.548	ppbv	#	86
58) Ethyl Benzene	9.357	91	12427	0.446	ppbv		90
59) m/p-Xylene	9.552	91	20195m	0.865	ppbv		
60) o-Xylene	9.966	91	9976m	0.427	ppbv		
61) Styrene	9.872	104	3457m	0.396	ppbv		
62) Isopropylbenzene	10.545	105	14837	0.440	ppbv		95
63) 1,1,2,2-Tetrachloroethane	9.963	83	8135	0.537	ppbv		96
64) n-propylbenzene	10.992	120	3329m	0.405	ppbv		
65) tert-Butylbenzene	11.536	119	12655	0.421	ppbv		99
66) Benzyl Chloride	11.613	91	1317m	0.379	ppbv		
67) sec-Butylbenzene	11.769	105	17905	0.419	ppbv		97
69) p-Isopropyltoluene	11.927	119	15036	0.417	ppbv		94
70) n-Butylbenzene	12.283	91	15016	0.403	ppbv		93
71) 2-Chlorotoluene	10.905	91	11702	0.443	ppbv		99
72) 4-Ethyltoluene	11.128	105	10671	0.387	ppbv	#	91
73) 1,3,5-Trimethylbenzene	11.206	105	9808	0.405	ppbv		89
74) 1,2,4-Trimethylbenzene	11.539	105	13060	0.445	ppbv	#	83
75) 1,3-Dichlorobenzene	11.607	146	8127	0.498	ppbv		96
76) 1,4-Dichlorobenzene	11.675	146	7238	0.469	ppbv		96
77) 1,2-Dichlorobenzene	11.950	146	8141	0.509	ppbv		94
78) Hexachloro-1,3-Butadiene	13.886	225	8565	0.537	ppbv		99
79) Naphthalene	13.517	128	9735m	0.396	ppbv		
80) Naphthalene,2-methyl-	14.458	142	4153	0.226	ppbv		98
81) 1,2,4-Trichlorobenzene	13.445	180	4992	0.379	ppbv		98

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

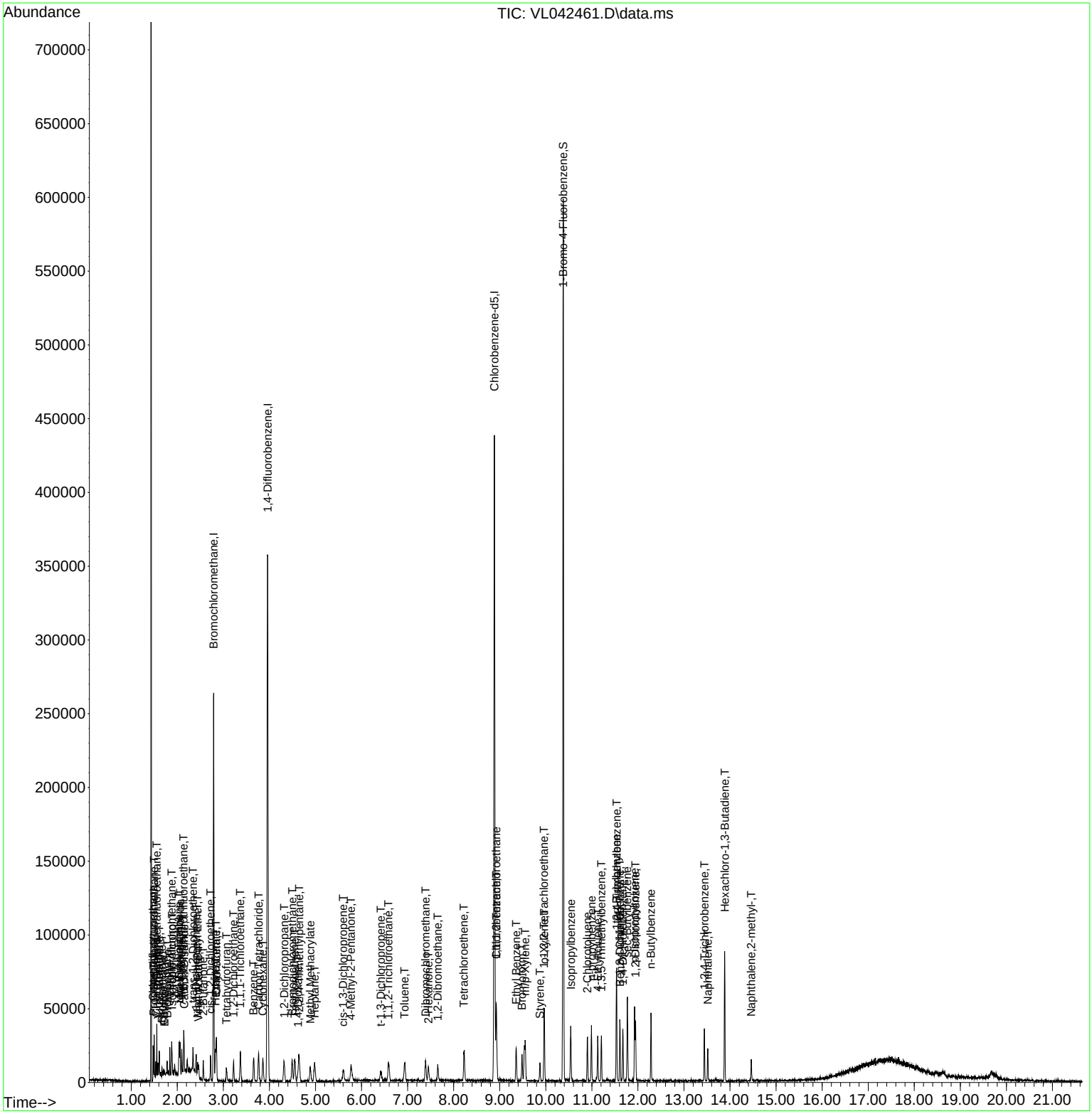
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042461.D
Acq On : 01 May 2025 10:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:42:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042462.D
Acq On : 01 May 2025 11:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	65449	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	186907	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	157618	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	143644	9.830	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.300%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	631	0.138	ppbv	# 53
32) 1,1,1-Trichloroethane	3.363	97	1860m	0.110	ppbv	
35) Carbon Tetrachloride	3.758	117	1493	0.092	ppbv	# 55
38) Trichloroethene	4.551	130	784m	0.117	ppbv	
52) Tetrachloroethene	8.221	164	710m	0.106	ppbv	
54) 1,2-Dibromoethane	7.665	107	1169m	0.105	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	1490	0.104	ppbv	# 75
79) Naphthalene	13.517	128	1135m	0.049	ppbv	

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

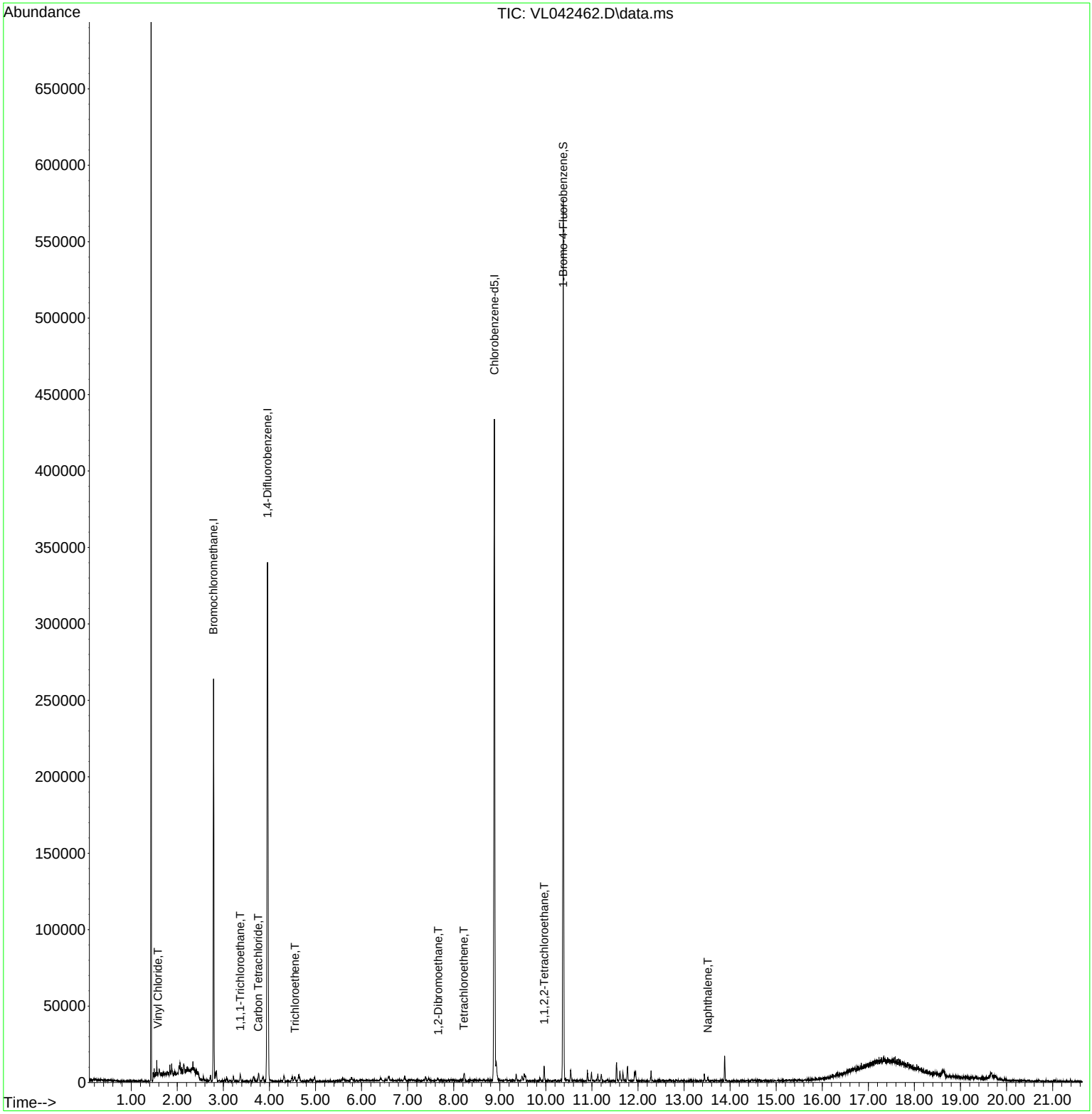
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042462.D
Acq On : 01 May 2025 11:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	64314	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	178877	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	157673	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	151837	10.387	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	158069	14.852	ppbv		99
3) Chlorodifluoromethane	1.476	51	154556	13.735	ppbv		100
4) Chloromethane	1.535	50	64267	14.447	ppbv		95
5) Vinyl Chloride	1.580	62	60873	13.592	ppbv		98
6) Bromomethane	1.667	94	31246	14.766	ppbv		87
7) Chloroethane	1.703	64	25181	15.227	ppbv		92
8) Dichlorotetrafluoroethane	1.554	85	131995	15.044	ppbv		99
9) Propene	1.486	41	49647	13.489	ppbv		99
10) Heptane	4.982	43	142235	14.898	ppbv		100
11) Trichlorofluoromethane	1.878	101	152655	16.082	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.140	101	115855	14.775	ppbv		96
13) Ethanol	1.722	45	8090	10.832	ppbv		98
14) Bromoethene	1.781	108	44928	15.519	ppbv		96
15) Acetone	1.836	43	141306	12.036	ppbv		99
16) 1,3-Butadiene	1.609	39	72455	13.992	ppbv		98
17) tert-Butyl alcohol	2.043	59	144935	14.012	ppbv		99
18) 1,1-Dichloroethene	2.033	96	52813	14.424	ppbv		98
19) Isopropyl Alcohol	1.887	45	86000	13.235	ppbv	#	1
20) Methylene Chloride	2.062	84	46063	13.050	ppbv		94
21) Allyl Chloride	2.098	41	112451	14.893	ppbv		99
22) trans-1,2-Dichloroethene	2.341	96	62153	14.534	ppbv		100
23) Vinyl Acetate	2.464	43	169418	15.489	ppbv		99
24) 1,1-Dichloroethane	2.409	63	127567	14.622	ppbv		97
25) Ethyl Acetate	2.836	43	269372	14.329	ppbv		100
26) Hexane	2.826	57	119552	14.598	ppbv		97
27) Carbon Disulfide	2.150	76	150258	15.722	ppbv	#	92
28) Methyl tert-Butyl Ether	2.441	73	71341	14.500	ppbv		99
29) Chloroform	2.849	83	221976	14.464	ppbv		99
30) Cyclohexane	3.859	84	101146	14.771	ppbv		99
31) cis-1,2-Dichloroethene	2.723	61	133735	13.997	ppbv		93
32) 1,1,1-Trichloroethane	3.370	97	234752	14.099	ppbv		99
34) 2-Butanone	2.557	43	174521	13.488	ppbv		97
35) Carbon Tetrachloride	3.765	117	242144	15.566	ppbv		99
36) Benzene	3.658	78	239352	14.179	ppbv		98
37) 1,2-Dichloroethane	3.221	62	190179	14.618	ppbv		98
38) Trichloroethene	4.551	130	95257	14.798	ppbv		94
39) 1,2-Dichloropropane	4.312	63	84414	13.349	ppbv		93
40) 1,4-Dioxane	4.584	88	38551	13.115	ppbv	#	100
41) Tetrahydrofuran	3.056	42	86296	14.063	ppbv		98
42) Bromodichloromethane	4.493	83	242556	15.259	ppbv		99
43) Methyl Methacrylate	4.885	69	98279	15.639	ppbv		100
44) 2,2,4-Trimethylpentane	4.642	57	401920	14.734	ppbv		99
45) t-1,3-Dichloropropene	6.419	75	136762	16.529	ppbv		92

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	154705m	15.749	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	99496	14.356	ppbv	93
48) Dibromochloromethane	7.393	129	180970	15.468	ppbv	98
49) Bromoform	9.487	173	152440	15.535	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	237985	14.550	ppbv	97
51) 2-Hexanone	7.438	43	197423	15.071	ppbv	99
52) Tetrachloroethene	8.228	164	85271	13.272	ppbv	90
53) Toluene	6.937	91	281731	15.768	ppbv	100
54) 1,2-Dibromoethane	7.655	107	154739	14.523	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.927	131	133410	14.326	ppbv	98
57) Chlorobenzene	8.927	112	218370	13.783	ppbv	99
58) Ethyl Benzene	9.358	91	414805	15.743	ppbv	98
59) m/p-Xylene	9.555	91	699743m	31.674	ppbv	
60) o-Xylene	9.966	91	350328	15.863	ppbv	100
61) Styrene	9.876	104	137720	16.686	ppbv	96
62) Isopropylbenzene	10.542	105	498619	15.629	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	209726	14.635	ppbv	99
64) n-propylbenzene	10.992	120	122452	15.759	ppbv	97
65) tert-Butylbenzene	11.536	119	443042	15.562	ppbv	97
66) Benzyl Chloride	11.617	91	60376	18.348	ppbv	97
67) sec-Butylbenzene	11.769	105	632600	15.636	ppbv	100
69) p-Isopropyltoluene	11.928	119	539860	15.837	ppbv	99
70) n-Butylbenzene	12.284	91	566780	16.084	ppbv	99
71) 2-Chlorotoluene	10.905	91	394227	15.755	ppbv	100
72) 4-Ethyltoluene	11.128	105	423746	16.250	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	362951	15.826	ppbv	96
74) 1,2,4-Trimethylbenzene	11.539	105	407416	14.683	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	225215	14.579	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	224505	15.357	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	216147	14.295	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	198112	13.121	ppbv	99
79) Naphthalene	13.517	128	392900	16.888	ppbv	98
80) Naphthalene,2-methyl-	14.459	142	316493	18.232	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	195942	15.728	ppbv	97

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

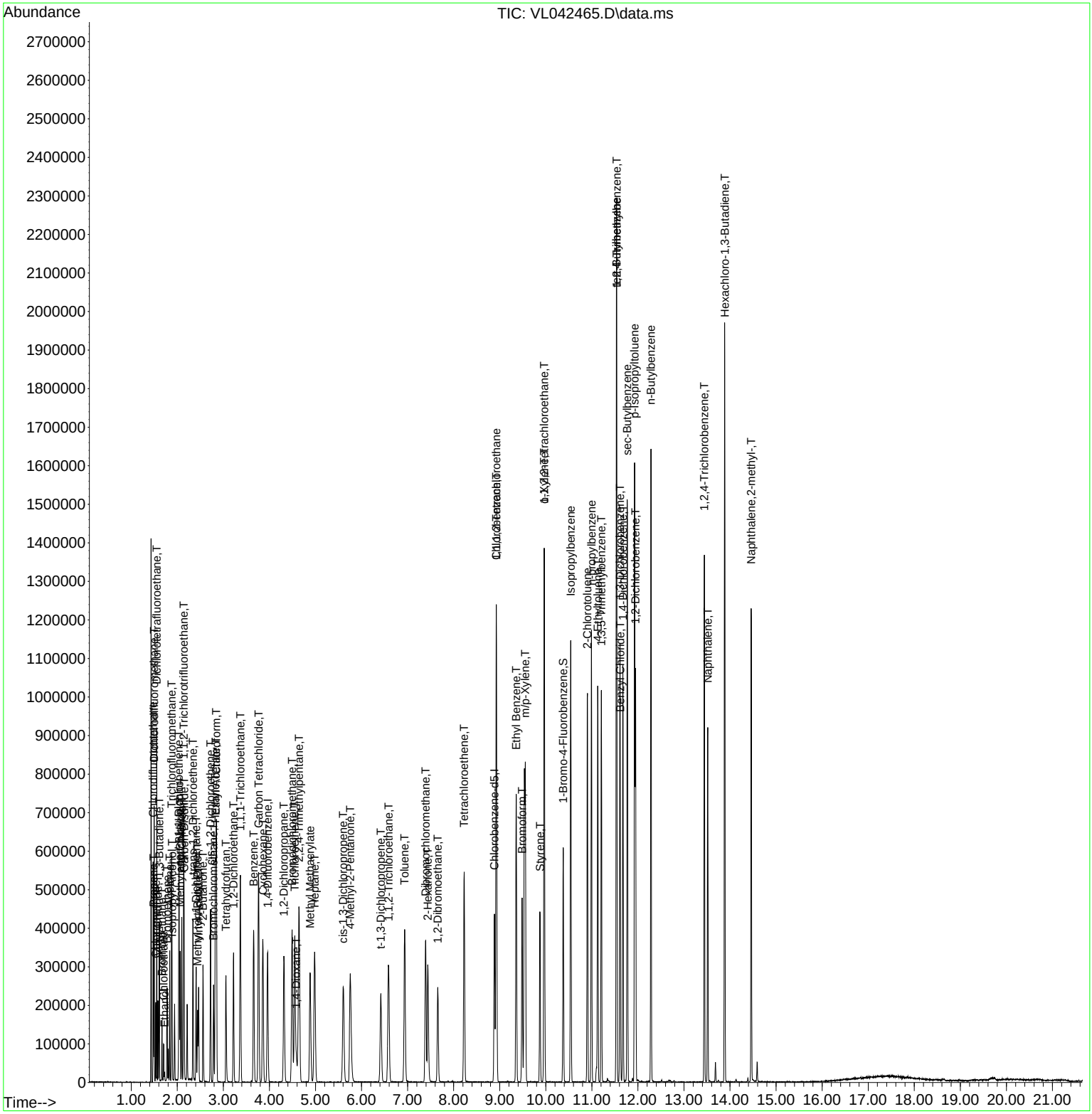
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042465.D
Acq On : 01 May 2025 12:49
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042466.D
Acq On : 01 May 2025 14:10
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:46:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	66546	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	186737	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	161050	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	148088	9.918	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	151	0.033	ppbv	# 87
32) 1,1,1-Trichloroethane	3.370	97	595m	0.035	ppbv	
35) Carbon Tetrachloride	3.771	117	653m	0.040	ppbv	
38) Trichloroethene	4.551	130	135	0.020	ppbv	# 40
52) Tetrachloroethene	8.231	164	285m	0.042	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.973	83	551m	0.038	ppbv	

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

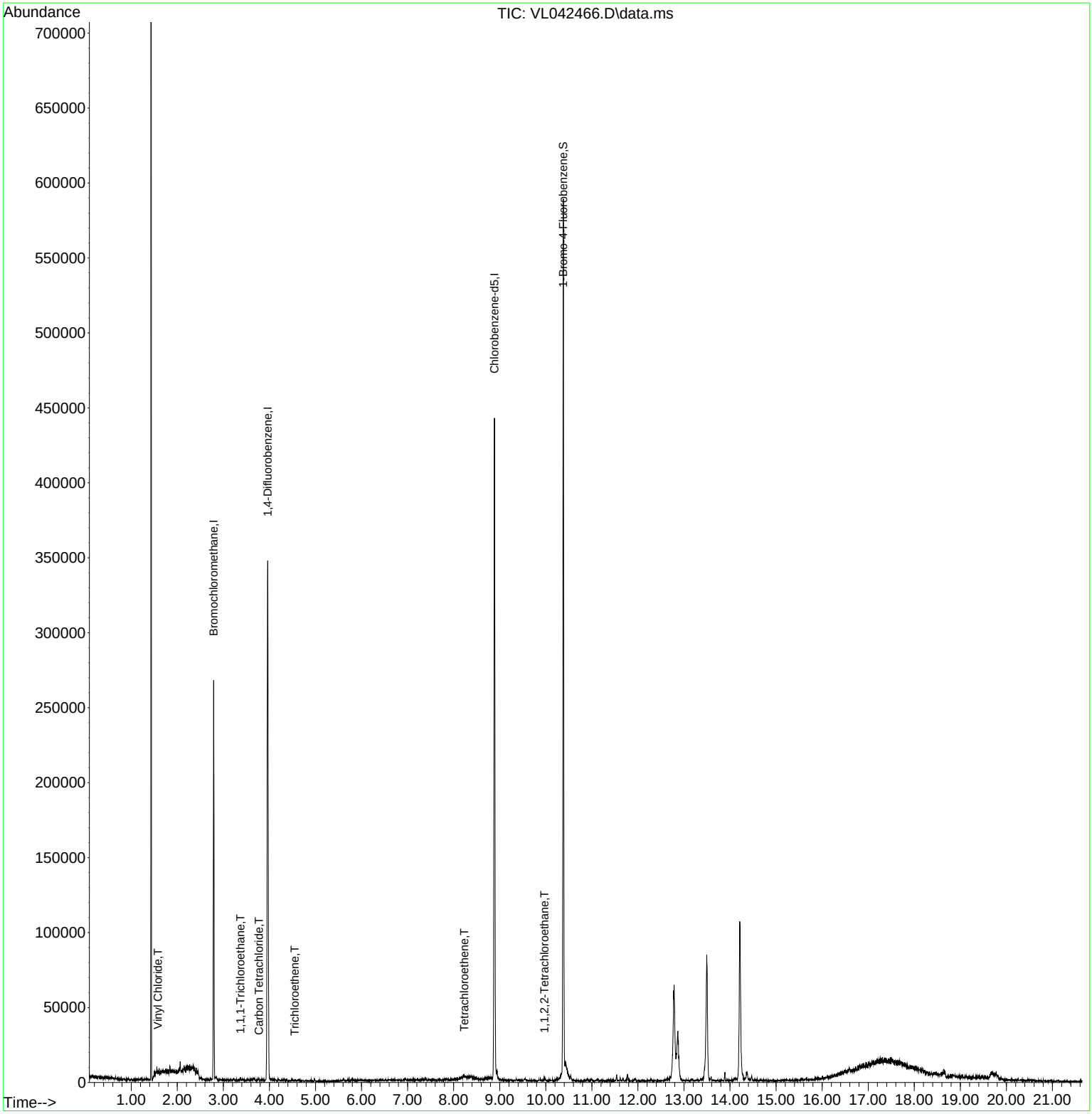
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042466.D
Acq On : 01 May 2025 14:10
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 01:46:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	63539	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	183679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	156982	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	150522	10.342	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	108782	10.346	ppbv	97
3) Chlorodifluoromethane	1.476	51	110290	9.921	ppbv	98
4) Chloromethane	1.534	50	43950	10.001	ppbv	96
5) Vinyl Chloride	1.580	62	41181	9.307	ppbv	99
6) Bromomethane	1.667	94	21021	10.055	ppbv	91
7) Chloroethane	1.706	64	16630	10.179	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	89345	10.307	ppbv	99
9) Propene	1.486	41	36920	10.153	ppbv	97
10) Heptane	4.985	43	94631	10.033	ppbv	95
11) Trichlorofluoromethane	1.878	101	100713	10.380	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	81143	10.474	ppbv	99
13) Ethanol	1.722	45	5736	7.773	ppbv	99
14) Bromoethene	1.780	108	30094	10.522	ppbv	97
15) Acetone	1.835	43	95460	8.230	ppbv	98
16) 1,3-Butadiene	1.609	39	49566	9.689	ppbv	100
17) tert-Butyl alcohol	2.043	59	102047	9.986	ppbv	100
18) 1,1-Dichloroethene	2.033	96	35784	9.892	ppbv	98
19) Isopropyl Alcohol	1.887	45	60977	9.499	ppbv	99
20) Methylene Chloride	2.062	84	31212	8.951	ppbv	94
21) Allyl Chloride	2.098	41	73365	9.835	ppbv	94
22) trans-1,2-Dichloroethene	2.340	96	42922	10.160	ppbv	96
23) Vinyl Acetate	2.463	43	113131	10.220	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	89117	10.340	ppbv	97
25) Ethyl Acetate	2.839	43	186185	10.025	ppbv	99
26) Hexane	2.826	57	83132	10.275	ppbv	96
27) Carbon Disulfide	2.149	76	100196	10.612	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	48326	9.942	ppbv	100
29) Chloroform	2.852	83	152381	10.050	ppbv	96
30) Cyclohexane	3.858	84	70581	10.434	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	95793	10.148	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	161465	9.816	ppbv	99
34) 2-Butanone	2.560	43	125883	9.475	ppbv	97
35) Carbon Tetrachloride	3.764	117	166814	9.998	ppbv	97
36) Benzene	3.658	78	171384	9.888	ppbv	98
37) 1,2-Dichloroethane	3.221	62	130063	9.736	ppbv	100
38) Trichloroethene	4.551	130	65940	9.976	ppbv	96
39) 1,2-Dichloropropane	4.315	63	60010	9.248	ppbv	95
40) 1,4-Dioxane	4.583	88	28306m	9.316	ppbv	
41) Tetrahydrofuran	3.059	42	59604	9.440	ppbv	98
42) Bromodichloromethane	4.489	83	163210	9.999	ppbv	95
43) Methyl Methacrylate	4.881	69	67516	10.438	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	277217	9.867	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	89638m	10.563	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	104665	10.378	ppbv		97
47) 1,1,2-Trichloroethane	6.584	97	67821	9.530	ppbv		95
48) Dibromochloromethane	7.393	129	121381	10.103	ppbv		97
49) Bromoform	9.487	173	102150	10.138	ppbv		100
50) 4-Methyl-2-Pentanone	5.752	43	159280	9.478	ppbv		99
51) 2-Hexanone	7.438	43	126396	9.407	ppbv	#	98
52) Tetrachloroethene	8.228	164	58272	8.832	ppbv		96
53) Toluene	6.940	91	191922	10.461	ppbv		99
54) 1,2-Dibromoethane	7.658	107	105149	9.664	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.927	131	92337	9.959	ppbv		97
57) Chlorobenzene	8.927	112	148759	9.431	ppbv		92
58) Ethyl Benzene	9.357	91	280660	10.698	ppbv		99
59) m/p-Xylene	9.555	91	468984m	21.324	ppbv		
60) o-Xylene	9.966	91	238347	10.824	ppbv		97
61) Styrene	9.872	104	91128	11.090	ppbv		97
62) Isopropylbenzene	10.542	105	337992	10.641	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	140306	9.242	ppbv		100
64) n-propylbenzene	10.992	120	79983	10.303	ppbv		99
65) tert-Butylbenzene	11.536	119	302506	10.672	ppbv		99
66) Benzyl Chloride	11.617	91	34933	10.663	ppbv		97
67) sec-Butylbenzene	11.769	105	425444	10.562	ppbv		99
69) p-Isopropyltoluene	11.927	119	363563	10.712	ppbv		98
70) n-Butylbenzene	12.283	91	371369	10.585	ppbv		99
71) 2-Chlorotoluene	10.905	91	264063	10.599	ppbv		99
72) 4-Ethyltoluene	11.128	105	287375	11.069	ppbv		99
73) 1,3,5-Trimethylbenzene	11.206	105	247128	10.823	ppbv		93
74) 1,2,4-Trimethylbenzene	11.539	105	278306	10.074	ppbv		98
75) 1,3-Dichlorobenzene	11.610	146	150026	9.754	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	151740	10.425	ppbv		97
77) 1,2-Dichlorobenzene	11.950	146	146314	9.719	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	133688	8.893	ppbv		99
79) Naphthalene	13.516	128	251318	10.806	ppbv		98
80) Naphthalene,2-methyl-	14.458	142	198604	11.489	ppbv		99
81) 1,2,4-Trichlorobenzene	13.442	180	129406	10.433	ppbv		98

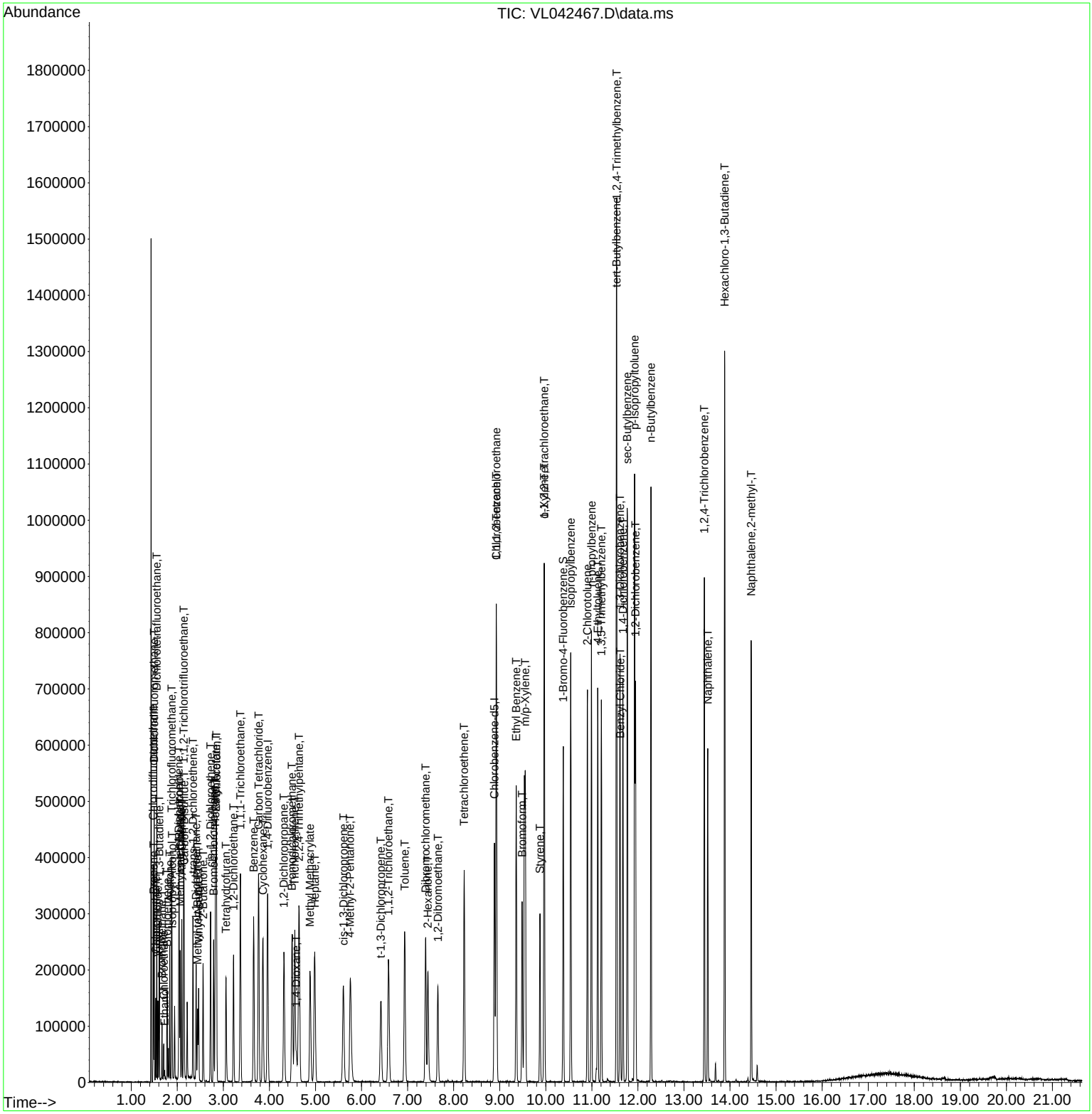
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

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



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	1.655	1.712	-3.4	104	0.00
3		Chlorodifluoromethane	1.750	1.736	0.8	98	0.00
4		Chloromethane	0.692	0.692	0.0	99	0.00
5	T	Vinyl Chloride	0.696	0.648	6.9	102	0.00
6	T	Bromomethane	0.329	0.331	-0.6	103	0.00
7		Chloroethane	0.257	0.262	-1.9	101	0.00
8	T	Dichlorotetrafluoroethane	1.364	1.406	-3.1	101	0.00
9	T	Propene	0.572	0.581	-1.6	98	0.00
10	T	Heptane	1.484	1.489	-0.3	92	0.00
11	T	Trichlorofluoromethane	1.527	1.585	-3.8	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.219	1.277	-4.8	103	0.00
13		Ethanol	0.116	0.090	22.4	101	0.00
14	T	Bromoethene	0.450	0.474	-5.3	106	0.00
15	T	Acetone	1.826	1.502	17.7	101	0.00
16	T	1,3-Butadiene	0.805	0.780	3.1	102	0.00
17		tert-Butyl alcohol	1.608	1.606	0.1	96	0.00
18	T	1,1-Dichloroethene	0.569	0.563	1.1	101	0.00
19	T	Isopropyl Alcohol	1.010	0.960	5.0	98	0.00
20	T	Methylene Chloride	0.549	0.491	10.6	97	0.00
21	T	Allyl Chloride	1.174	1.155	1.6	95	0.00
22	T	trans-1,2-Dichloroethene	0.665	0.676	-1.7	109	0.00
23	T	Vinyl Acetate	1.742	1.780	-2.2	92	0.00
24	T	1,1-Dichloroethane	1.357	1.403	-3.4	104	0.00
25	T	Ethyl Acetate	2.923	2.930	-0.2	92	0.00
26	T	Hexane	1.273	1.308	-2.7	96	0.00
27	T	Carbon Disulfide	1.486	1.577	-6.1	99	0.00
28	T	Methyl tert-Butyl Ether	0.765	0.761	0.5	101	0.00
29	T	Chloroform	2.386	2.398	-0.5	97	0.00
30	T	Cyclohexane	1.065	1.111	-4.3	95	0.00
31	T	cis-1,2-Dichloroethene	1.486	1.508	-1.5	100	0.00
32	T	1,1,1-Trichloroethane	2.589	2.541	1.9	99	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34	T	2-Butanone	0.723	0.685	5.3	95	0.00
35	T	Carbon Tetrachloride	0.908	0.908	0.0	100	0.00
36	T	Benzene	0.944	0.933	1.2	95	0.00
37	T	1,2-Dichloroethane	0.727	0.708	2.6	97	0.00
38	T	Trichloroethene	0.360	0.359	0.3	94	0.00
39	T	1,2-Dichloropropane	0.353	0.327	7.4	94	0.00
40	T	1,4-Dioxane	0.165	0.154	6.7	93	0.00
41	T	Tetrahydrofuran	0.344	0.325	5.5	91	0.00
42	T	Bromodichloromethane	0.889	0.889	0.0	97	0.00
43		Methyl Methacrylate	0.352	0.368	-4.5	92	0.00
44	T	2,2,4-Trimethylpentane	1.530	1.509	1.4	96	0.00
45	T	t-1,3-Dichloropropene	0.462	0.488	-5.6	93	0.00
46	T	cis-1,3-Dichloropropene	0.549	0.570	-3.8	94	0.00
47	T	1,1,2-Trichloroethane	0.387	0.369	4.7	94	0.00
48	T	Dibromochloromethane	0.654	0.661	-1.1	96	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.549	0.556	-1.3	96	0.00
50	T	4-Methyl-2-Pentanone	0.915	0.867	5.2	91	0.00
51	T	2-Hexanone	0.731	0.688	5.9	87	0.00
52	T	Tetrachloroethene	0.359	0.317	11.7	95	0.00
53	T	Toluene	0.999	1.045	-4.6	94	0.00
54	T	1,2-Dibromoethane	0.592	0.572	3.4	94	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	0.591	0.588	0.5	98	0.00
57	T	Chlorobenzene	1.005	0.948	5.7	95	0.00
58	T	Ethyl Benzene	1.671	1.788	-7.0	93	0.00
59	T	m/p-Xylene	1.401	1.494	-6.6	94	0.03
60	T	o-Xylene	1.403	1.518	-8.2	96	0.00
61	T	Styrene	0.523	0.580	-10.9	90	0.00
62		Isopropylbenzene	2.023	2.153	-6.4	95	0.00
63	T	1,1,2,2-Tetrachloroethane	0.967	0.894	7.5	95	0.00
64		n-propylbenzene	0.495	0.510	-3.0	95	0.00
65		tert-Butylbenzene	1.806	1.927	-6.7	96	0.00
66	T	Benzyl Chloride	0.209	0.223	-6.7	87	0.00
67		sec-Butylbenzene	2.566	2.710	-5.6	96	0.00
68	S	1-Bromo-4-Fluorobenzene	0.927	0.959	-3.5	91	0.00
69		p-Isopropyltoluene	2.162	2.316	-7.1	97	0.00
70		n-Butylbenzene	2.235	2.366	-5.9	97	0.00
71		2-Chlorotoluene	1.587	1.682	-6.0	95	0.00
72	T	4-Ethyltoluene	1.654	1.831	-10.7	96	0.00
73	T	1,3,5-Trimethylbenzene	1.455	1.574	-8.2	96	0.00
74	T	1,2,4-Trimethylbenzene	1.760	1.773	-0.7	97	0.00
75	T	1,3-Dichlorobenzene	0.980	0.956	2.4	96	0.00
76	T	1,4-Dichlorobenzene	0.927	0.967	-4.3	96	0.00
77	T	1,2-Dichlorobenzene	0.959	0.932	2.8	97	0.00
78	T	Hexachloro-1,3-Butadiene	0.958	0.852	11.1	99	0.00
79	T	Naphthalene	1.482	1.601	-8.0	94	0.00
80	T	Naphthalene,2-methyl-	1.101	1.265	-14.9	97	0.00
81	T	1,2,4-Trichlorobenzene	0.790	0.824	-4.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	10.000	10.346	-3.5	104	0.00
3		Chlorodifluoromethane	10.000	9.921	0.8	98	0.00
4		Chloromethane	10.000	10.001	-0.0	99	0.00
5	T	Vinyl Chloride	10.000	9.307	6.9	102	0.00
6	T	Bromomethane	10.000	10.055	-0.5	103	0.00
7		Chloroethane	10.000	10.179	-1.8	101	0.00
8	T	Dichlorotetrafluoroethane	10.000	10.307	-3.1	101	0.00
9	T	Propene	10.000	10.153	-1.5	98	0.00
10	T	Heptane	10.000	10.033	-0.3	92	0.00
11	T	Trichlorofluoromethane	10.000	10.380	-3.8	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	10.474	-4.7	103	0.00
13		Ethanol	10.000	7.773	22.3	101	0.00
14	T	Bromoethene	10.000	10.522	-5.2	106	0.00
15	T	Acetone	10.000	8.230	17.7	101	0.00
16	T	1,3-Butadiene	10.000	9.689	3.1	102	0.00
17		tert-Butyl alcohol	10.000	9.986	0.1	96	0.00
18	T	1,1-Dichloroethene	10.000	9.892	1.1	101	0.00
19	T	Isopropyl Alcohol	10.000	9.499	5.0	98	0.00
20	T	Methylene Chloride	10.000	8.951	10.5	97	0.00
21	T	Allyl Chloride	10.000	9.835	1.6	95	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.160	-1.6	109	0.00
23	T	Vinyl Acetate	10.000	10.220	-2.2	92	0.00
24	T	1,1-Dichloroethane	10.000	10.340	-3.4	104	0.00
25	T	Ethyl Acetate	10.000	10.025	-0.3	92	0.00
26	T	Hexane	10.000	10.275	-2.8	96	0.00
27	T	Carbon Disulfide	10.000	10.612	-6.1	99	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.942	0.6	101	0.00
29	T	Chloroform	10.000	10.050	-0.5	97	0.00
30	T	Cyclohexane	10.000	10.434	-4.3	95	0.00
31	T	cis-1,2-Dichloroethene	10.000	10.148	-1.5	100	0.00
32	T	1,1,1-Trichloroethane	10.000	9.816	1.8	99	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34	T	2-Butanone	10.000	9.475	5.3	95	0.00
35	T	Carbon Tetrachloride	10.000	9.998	0.0	100	0.00
36	T	Benzene	10.000	9.888	1.1	95	0.00
37	T	1,2-Dichloroethane	10.000	9.736	2.6	97	0.00
38	T	Trichloroethene	10.000	9.976	0.2	94	0.00
39	T	1,2-Dichloropropane	10.000	9.248	7.5	94	0.00
40	T	1,4-Dioxane	10.000	9.316	6.8	93	0.00
41	T	Tetrahydrofuran	10.000	9.440	5.6	91	0.00
42	T	Bromodichloromethane	10.000	9.999	0.0	97	0.00
43		Methyl Methacrylate	10.000	10.438	-4.4	92	0.00
44	T	2,2,4-Trimethylpentane	10.000	9.867	1.3	96	0.00
45	T	t-1,3-Dichloropropene	10.000	10.563	-5.6	93	0.00
46	T	cis-1,3-Dichloropropene	10.000	10.378	-3.8	94	0.00
47	T	1,1,2-Trichloroethane	10.000	9.530	4.7	94	0.00
48	T	Dibromochloromethane	10.000	10.103	-1.0	96	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042467.D
Acq On : 01 May 2025 15:46
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050125

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Bromoform	10.000	10.138	-1.4	96	0.00
50	T	4-Methyl-2-Pentanone	10.000	9.478	5.2	91	0.00
51	T	2-Hexanone	10.000	9.407	5.9	87	0.00
52	T	Tetrachloroethene	10.000	8.832	11.7	95	0.00
53	T	Toluene	10.000	10.461	-4.6	94	0.00
54	T	1,2-Dibromoethane	10.000	9.664	3.4	94	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56		1,1,1,2-Tetrachloroethane	10.000	9.959	0.4	98	0.00
57	T	Chlorobenzene	10.000	9.431	5.7	95	0.00
58	T	Ethyl Benzene	10.000	10.698	-7.0	93	0.00
59	T	m/p-Xylene	20.000	21.324	-6.6	94	0.03
60	T	o-Xylene	10.000	10.824	-8.2	96	0.00
61	T	Styrene	10.000	11.090	-10.9	90	0.00
62		Isopropylbenzene	10.000	10.641	-6.4	95	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	9.242	7.6	95	0.00
64		n-propylbenzene	10.000	10.303	-3.0	95	0.00
65		tert-Butylbenzene	10.000	10.672	-6.7	96	0.00
66	T	Benzyl Chloride	10.000	10.663	-6.6	87	0.00
67		sec-Butylbenzene	10.000	10.562	-5.6	96	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.342	-3.4	91	0.00
69		p-Isopropyltoluene	10.000	10.712	-7.1	97	0.00
70		n-Butylbenzene	10.000	10.585	-5.9	97	0.00
71		2-Chlorotoluene	10.000	10.599	-6.0	95	0.00
72	T	4-Ethyltoluene	10.000	11.069	-10.7	96	0.00
73	T	1,3,5-Trimethylbenzene	10.000	10.823	-8.2	96	0.00
74	T	1,2,4-Trimethylbenzene	10.000	10.074	-0.7	97	0.00
75	T	1,3-Dichlorobenzene	10.000	9.754	2.5	96	0.00
76	T	1,4-Dichlorobenzene	10.000	10.425	-4.3	96	0.00
77	T	1,2-Dichlorobenzene	10.000	9.719	2.8	97	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	8.893	11.1	99	0.00
79	T	Naphthalene	10.000	10.806	-8.1	94	0.00
80	T	Naphthalene,2-methyl-	10.000	11.489	-14.9	97	0.00
81	T	1,2,4-Trichlorobenzene	10.000	10.433	-4.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

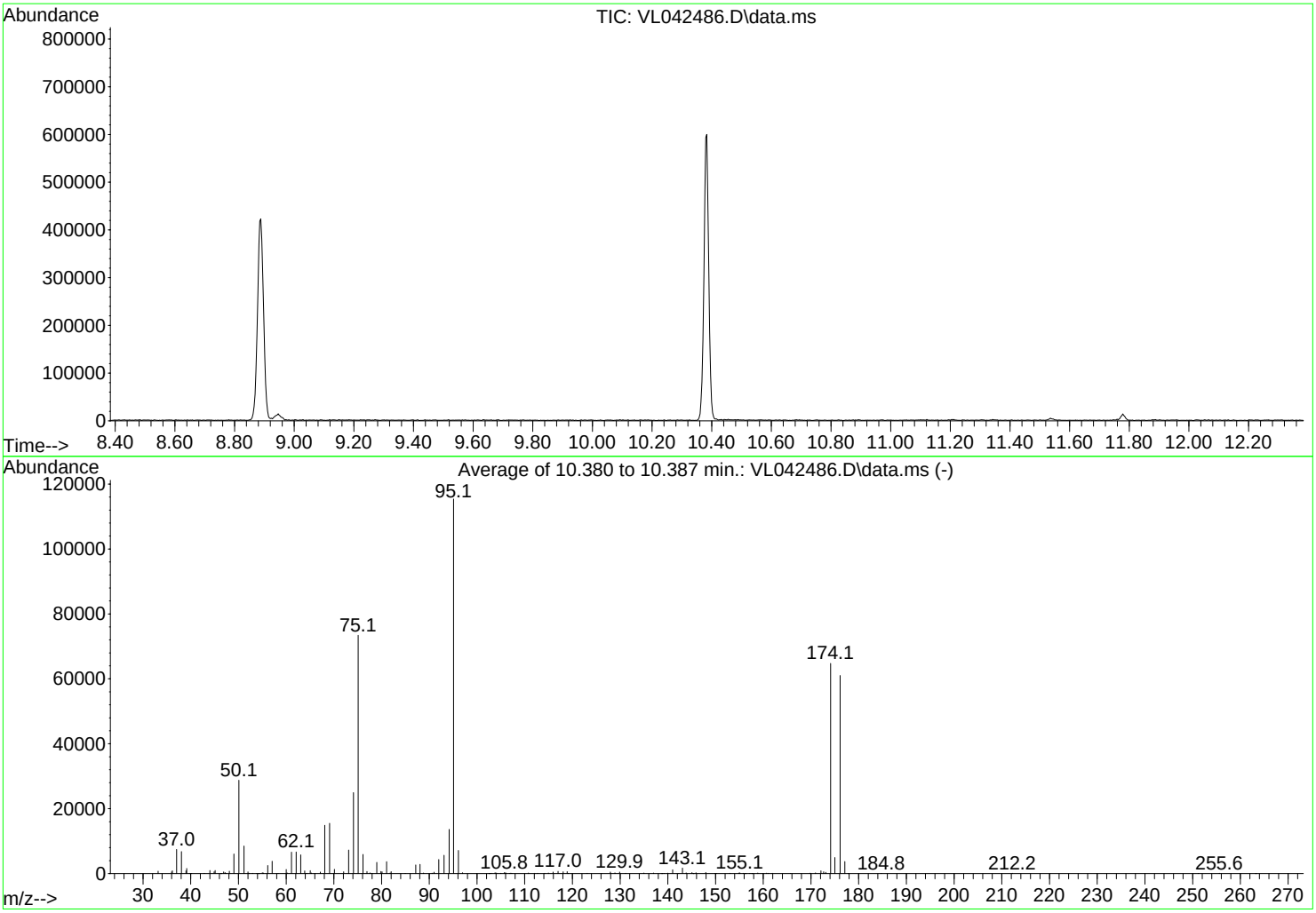
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042486.D
Acq On : 06 May 2025 08:16
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

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



AutoFind: Scans 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	24.9	28768	PASS
75	95	30	66	63.6	73411	PASS
95	95	100	100	100.0	115408	PASS
96	95	5	9	6.2	7151	PASS
173	174	0.00	2	0.6	392	PASS
174	95	50	120	56.1	64757	PASS
175	174	4	9	7.6	4952	PASS
176	174	93	101	94.3	61040	PASS
177	176	5	9	6.1	3717	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	69320	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	188157	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	161366	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	165339	11.051	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 110.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	131525	11.466	ppbv	96
3) Chlorodifluoromethane	1.477	51	119859	9.883	ppbv	98
4) Chloromethane	1.535	50	51848	10.814	ppbv	91
5) Vinyl Chloride	1.580	62	47536	9.847	ppbv	95
6) Bromomethane	1.667	94	25689	11.263	ppbv	99
7) Chloroethane	1.706	64	18985	10.651	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	105839	11.192	ppbv	97
9) Propene	1.486	41	34471	8.689	ppbv	96
10) Heptane	4.982	43	103210	10.030	ppbv	96
11) Trichlorofluoromethane	1.878	101	123855	11.700	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.140	101	93934	11.114	ppbv	98
13) Ethanol	1.722	45	6351	7.889	ppbv	98
14) Bromoethene	1.784	108	36335	11.645	ppbv	92
15) Acetone	1.836	43	111680	8.825	ppbv	99
16) 1,3-Butadiene	1.609	39	55608	9.963	ppbv	95
17) tert-Butyl alcohol	2.043	59	118491	10.628	ppbv	97
18) 1,1-Dichloroethene	2.036	96	41887	10.614	ppbv	98
19) Isopropyl Alcohol	1.888	45	69030	9.856	ppbv	100
20) Methylene Chloride	2.062	84	37393	9.829	ppbv	97
21) Allyl Chloride	2.098	41	84167	10.342	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	47256	10.253	ppbv	95
23) Vinyl Acetate	2.464	43	118463	9.809	ppbv	97
24) 1,1-Dichloroethane	2.409	63	100156	10.651	ppbv	99
25) Ethyl Acetate	2.839	43	201213	9.931	ppbv	99
26) Hexane	2.826	57	88211	9.993	ppbv	97
27) Carbon Disulfide	2.150	76	120690	11.716	ppbv	93
28) Methyl tert-Butyl Ether	2.441	73	51653	9.740	ppbv	98
29) Chloroform	2.852	83	172606	10.435	ppbv	93
30) Cyclohexane	3.859	84	74929	10.153	ppbv	98
31) cis-1,2-Dichloroethene	2.723	61	97864	9.503	ppbv	93
32) 1,1,1-Trichloroethane	3.370	97	182668	10.179	ppbv	99
34) 2-Butanone	2.561	43	131262	9.645	ppbv	97
35) Carbon Tetrachloride	3.765	117	190178	11.127	ppbv	100
36) Benzene	3.661	78	181690	10.233	ppbv	99
37) 1,2-Dichloroethane	3.221	62	146010	10.669	ppbv	98
38) Trichloroethene	4.555	130	71976	10.630	ppbv	90
39) 1,2-Dichloropropane	4.322	63	63612	9.570	ppbv #	87
40) 1,4-Dioxane	4.590	88	29247	9.396	ppbv #	100
41) Tetrahydrofuran	3.059	42	64241	9.932	ppbv	98
42) Bromodichloromethane	4.496	83	185825	11.113	ppbv	91
43) Methyl Methacrylate	4.891	69	72618	10.960	ppbv	96
44) 2,2,4-Trimethylpentane	4.645	57	311522	10.824	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	93178	10.719	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	108203	10.473	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	75237	10.320	ppbv	93
48) Dibromochloromethane	7.393	129	134135	10.899	ppbv	99
49) Bromoform	9.490	173	119371	11.565	ppbv	98
50) 4-Methyl-2-Pentanone	5.759	43	177017	10.283	ppbv	96
51) 2-Hexanone	7.442	43	141871	10.308	ppbv	99
52) Tetrachloroethene	8.228	164	63220	9.354	ppbv	86
53) Toluene	6.940	91	205094	10.913	ppbv	99
54) 1,2-Dibromoethane	7.659	107	117565	10.548	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.934	131	104985	11.016	ppbv	98
57) Chlorobenzene	8.927	112	169084	10.428	ppbv	92
58) Ethyl Benzene	9.361	91	308243	11.431	ppbv	100
59) m/p-Xylene	9.555	91	540767m	23.920	ppbv	
60) o-Xylene	9.969	91	271925	12.013	ppbv	99
61) Styrene	9.876	104	99907	11.828	ppbv	97
62) Isopropylbenzene	10.546	105	384743	11.784	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	167724	10.748	ppbv	99
64) n-propylbenzene	10.992	120	91898	11.517	ppbv	95
65) tert-Butylbenzene	11.536	119	349935	12.010	ppbv	98
66) Benzyl Chloride	11.620	91	43100	12.798	ppbv	99
67) sec-Butylbenzene	11.772	105	496533	11.992	ppbv	99
69) p-Isopropyltoluene	11.931	119	416243	11.931	ppbv	99
70) n-Butylbenzene	12.287	91	437958	12.144	ppbv	100
71) 2-Chlorotoluene	10.905	91	303775	11.862	ppbv	100
72) 4-Ethyltoluene	11.131	105	331569	12.424	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	287473	12.248	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	324889	11.441	ppbv	94
75) 1,3-Dichlorobenzene	11.610	146	175086	11.074	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	178127	11.906	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	170747	11.034	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	152349	9.859	ppbv	99
79) Naphthalene	13.517	128	292585	12.239	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	225180	12.673	ppbv	99
81) 1,2,4-Trichlorobenzene	13.446	180	142121	11.147	ppbv	98

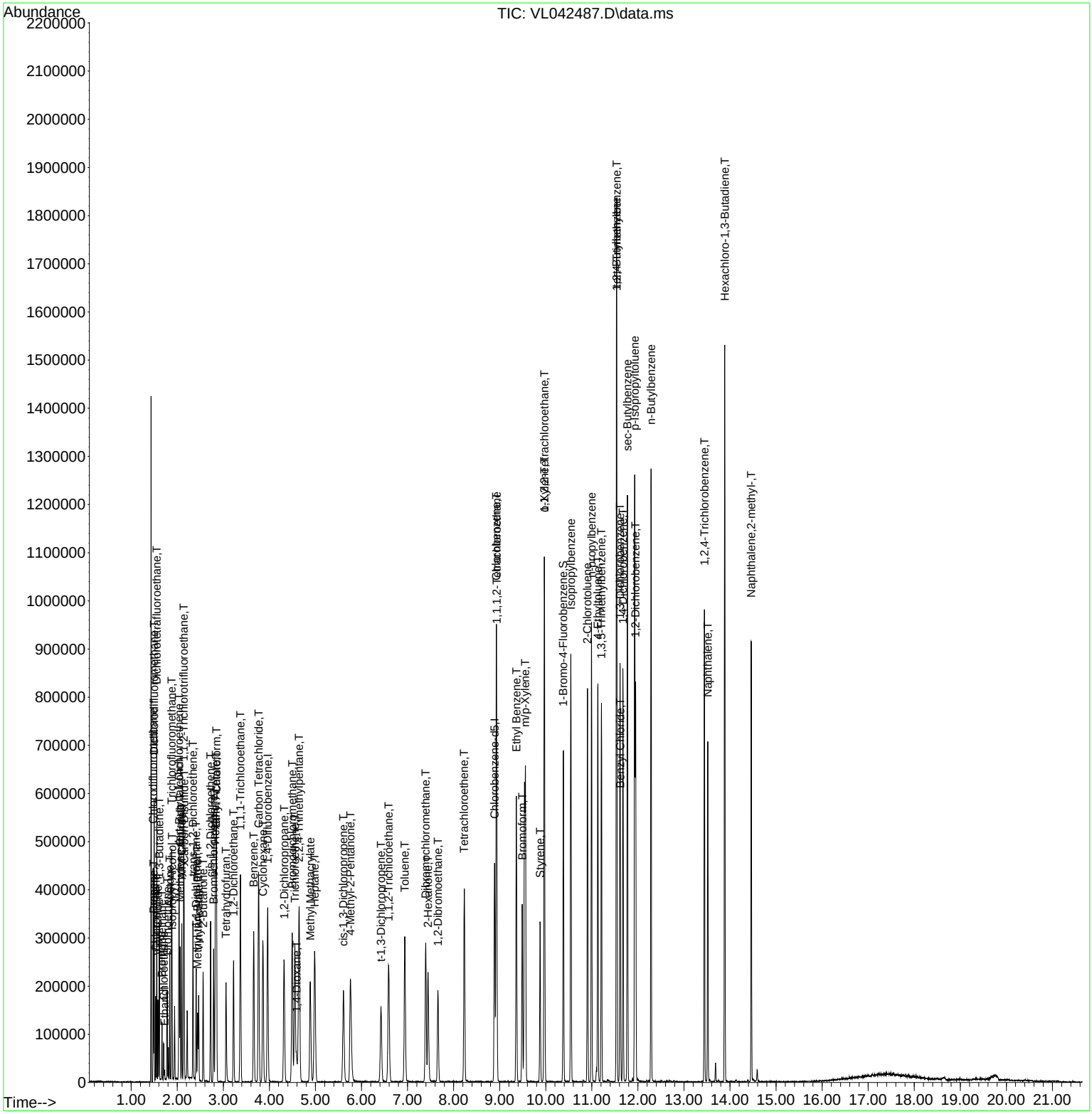
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	97	0.00
2	T	Dichlorodifluoromethane	1.655	1.897	-14.6	125	0.00
3		Chlorodifluoromethane	1.750	1.729	1.2	107	0.00
4		Chloromethane	0.692	0.748	-8.1	116	0.00
5	T	Vinyl Chloride	0.696	0.686	1.4	117	0.00
6	T	Bromomethane	0.329	0.371	-12.8	126	0.00
7		Chloroethane	0.257	0.274	-6.6	115	0.00
8	T	Dichlorotetrafluoroethane	1.364	1.527	-12.0	120	0.00
9	T	Propene	0.572	0.497	13.1	92	0.00
10	T	Heptane	1.484	1.489	-0.3	100	0.00
11	T	Trichlorofluoromethane	1.527	1.787	-17.0	126	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.219	1.355	-11.2	120	0.00
13		Ethanol	0.116	0.092	20.7	112	0.00
14	T	Bromoethene	0.450	0.524	-16.4	128	0.00
15	T	Acetone	1.826	1.611	11.8	119	0.00
16	T	1,3-Butadiene	0.805	0.802	0.4	114	0.00
17		tert-Butyl alcohol	1.608	1.709	-6.3	111	0.00
18	T	1,1-Dichloroethene	0.569	0.604	-6.2	119	0.00
19	T	Isopropyl Alcohol	1.010	0.996	1.4	110	0.00
20	T	Methylene Chloride	0.549	0.539	1.8	117	0.00
21	T	Allyl Chloride	1.174	1.214	-3.4	110	0.00
22	T	trans-1,2-Dichloroethene	0.665	0.682	-2.6	120	0.00
23	T	Vinyl Acetate	1.742	1.709	1.9	96	0.00
24	T	1,1-Dichloroethane	1.357	1.445	-6.5	117	0.00
25	T	Ethyl Acetate	2.923	2.903	0.7	100	0.00
26	T	Hexane	1.273	1.273	0.0	102	0.00
27	T	Carbon Disulfide	1.486	1.741	-17.2	119	0.00
28	T	Methyl tert-Butyl Ether	0.765	0.745	2.6	108	0.00
29	T	Chloroform	2.386	2.490	-4.4	110	0.00
30	T	Cyclohexane	1.065	1.081	-1.5	100	0.00
31	T	cis-1,2-Dichloroethene	1.486	1.412	5.0	102	0.00
32	T	1,1,1-Trichloroethane	2.589	2.635	-1.8	112	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34	T	2-Butanone	0.723	0.698	3.5	99	0.00
35	T	Carbon Tetrachloride	0.908	1.011	-11.3	114	0.00
36	T	Benzene	0.944	0.966	-2.3	101	0.00
37	T	1,2-Dichloroethane	0.727	0.776	-6.7	109	0.00
38	T	Trichloroethene	0.360	0.383	-6.4	103	0.01
39	T	1,2-Dichloropropane	0.353	0.338	4.2	100	0.01
40	T	1,4-Dioxane	0.165	0.155	6.1	97	0.00
41	T	Tetrahydrofuran	0.344	0.341	0.9	98	0.00
42	T	Bromodichloromethane	0.889	0.988	-11.1	110	0.01
43		Methyl Methacrylate	0.352	0.386	-9.7	99	0.01
44	T	2,2,4-Trimethylpentane	1.530	1.656	-8.2	108	0.01
45	T	t-1,3-Dichloropropene	0.462	0.495	-7.1	96	0.01
46	T	cis-1,3-Dichloropropene	0.549	0.575	-4.7	97	0.00
47	T	1,1,2-Trichloroethane	0.387	0.400	-3.4	105	0.00
48	T	Dibromochloromethane	0.654	0.713	-9.0	106	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	Bromoform	0.549	0.634	-15.5	112	0.01
50	T	4-Methyl-2-Pentanone	0.915	0.941	-2.8	101	0.01
51	T	2-Hexanone	0.731	0.754	-3.1	98	0.00
52	T	Tetrachloroethene	0.359	0.336	6.4	103	0.00
53	T	Toluene	0.999	1.090	-9.1	100	0.01
54	T	1,2-Dibromoethane	0.592	0.625	-5.6	105	0.01
55	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	0.591	0.651	-10.2	111	0.01
57	T	Chlorobenzene	1.005	1.048	-4.3	107	0.00
58	T	Ethyl Benzene	1.671	1.910	-14.3	103	0.00
59	T	m/p-Xylene	1.401	1.676	-19.6	109	0.03
60	T	o-Xylene	1.403	1.685	-20.1	110	0.00
61	T	Styrene	0.523	0.619	-18.4	98	0.00
62		Isopropylbenzene	2.023	2.384	-17.8	109	0.00
63	T	1,1,2,2-Tetrachloroethane	0.967	1.039	-7.4	114	0.00
64		n-propylbenzene	0.495	0.570	-15.2	109	0.00
65		tert-Butylbenzene	1.806	2.169	-20.1	111	0.00
66	T	Benzyl Chloride	0.209	0.267	-27.8	107	0.00
67		sec-Butylbenzene	2.566	3.077	-19.9	112	0.00
68	S	1-Bromo-4-Fluorobenzene	0.927	1.025	-10.6	100	0.00
69		p-Isopropyltoluene	2.162	2.579	-19.3	111	0.00
70		n-Butylbenzene	2.235	2.714	-21.4	114	0.00
71		2-Chlorotoluene	1.587	1.883	-18.7	109	0.00
72	T	4-Ethyltoluene	1.654	2.055	-24.2	111	0.00
73	T	1,3,5-Trimethylbenzene	1.455	1.781	-22.4	112	0.00
74	T	1,2,4-Trimethylbenzene	1.760	2.013	-14.4	113	0.00
75	T	1,3-Dichlorobenzene	0.980	1.085	-10.7	113	0.00
76	T	1,4-Dichlorobenzene	0.927	1.104	-19.1	113	0.00
77	T	1,2-Dichlorobenzene	0.959	1.058	-10.3	114	0.00
78	T	Hexachloro-1,3-Butadiene	0.958	0.944	1.5	113	0.00
79	T	Naphthalene	1.482	1.813	-22.3	110	0.00
80	T	Naphthalene,2-methyl-	1.101	1.395	-26.7	110	0.00
81	T	1,2,4-Trichlorobenzene	0.790	0.881	-11.5	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	97	0.00
2	T	Dichlorodifluoromethane	10.000	11.466	-14.7	125	0.00
3		Chlorodifluoromethane	10.000	9.883	1.2	107	0.00
4		Chloromethane	10.000	10.814	-8.1	116	0.00
5	T	Vinyl Chloride	10.000	9.847	1.5	117	0.00
6	T	Bromomethane	10.000	11.263	-12.6	126	0.00
7		Chloroethane	10.000	10.651	-6.5	115	0.00
8	T	Dichlorotetrafluoroethane	10.000	11.192	-11.9	120	0.00
9	T	Propene	10.000	8.689	13.1	92	0.00
10	T	Heptane	10.000	10.030	-0.3	100	0.00
11	T	Trichlorofluoromethane	10.000	11.700	-17.0	126	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	11.114	-11.1	120	0.00
13		Ethanol	10.000	7.889	21.1	112	0.00
14	T	Bromoethene	10.000	11.645	-16.4	128	0.00
15	T	Acetone	10.000	8.825	11.8	119	0.00
16	T	1,3-Butadiene	10.000	9.963	0.4	114	0.00
17		tert-Butyl alcohol	10.000	10.628	-6.3	111	0.00
18	T	1,1-Dichloroethene	10.000	10.614	-6.1	119	0.00
19	T	Isopropyl Alcohol	10.000	9.856	1.4	110	0.00
20	T	Methylene Chloride	10.000	9.829	1.7	117	0.00
21	T	Allyl Chloride	10.000	10.342	-3.4	110	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.253	-2.5	120	0.00
23	T	Vinyl Acetate	10.000	9.809	1.9	96	0.00
24	T	1,1-Dichloroethane	10.000	10.651	-6.5	117	0.00
25	T	Ethyl Acetate	10.000	9.931	0.7	100	0.00
26	T	Hexane	10.000	9.993	0.1	102	0.00
27	T	Carbon Disulfide	10.000	11.716	-17.2	119	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.740	2.6	108	0.00
29	T	Chloroform	10.000	10.435	-4.4	110	0.00
30	T	Cyclohexane	10.000	10.153	-1.5	100	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.503	5.0	102	0.00
32	T	1,1,1-Trichloroethane	10.000	10.179	-1.8	112	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	93	0.00
34	T	2-Butanone	10.000	9.645	3.6	99	0.00
35	T	Carbon Tetrachloride	10.000	11.127	-11.3	114	0.00
36	T	Benzene	10.000	10.233	-2.3	101	0.00
37	T	1,2-Dichloroethane	10.000	10.669	-6.7	109	0.00
38	T	Trichloroethene	10.000	10.630	-6.3	103	0.01
39	T	1,2-Dichloropropane	10.000	9.570	4.3	100	0.01
40	T	1,4-Dioxane	10.000	9.396	6.0	97	0.00
41	T	Tetrahydrofuran	10.000	9.932	0.7	98	0.00
42	T	Bromodichloromethane	10.000	11.113	-11.1	110	0.01
43		Methyl Methacrylate	10.000	10.960	-9.6	99	0.01
44	T	2,2,4-Trimethylpentane	10.000	10.824	-8.2	108	0.01
45	T	t-1,3-Dichloropropene	10.000	10.719	-7.2	96	0.01
46	T	cis-1,3-Dichloropropene	10.000	10.473	-4.7	97	0.00
47	T	1,1,2-Trichloroethane	10.000	10.320	-3.2	105	0.00
48	T	Dibromochloromethane	10.000	10.899	-9.0	106	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042487.D
Acq On : 06 May 2025 09:00
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: May 07 01:35:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Bromoform	10.000	11.565	-15.6	112	0.01
50	T	4-Methyl-2-Pentanone	10.000	10.283	-2.8	101	0.01
51	T	2-Hexanone	10.000	10.308	-3.1	98	0.00
52	T	Tetrachloroethene	10.000	9.354	6.5	103	0.00
53	T	Toluene	10.000	10.913	-9.1	100	0.01
54	T	1,2-Dibromoethane	10.000	10.548	-5.5	105	0.01
55	I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	10.000	11.016	-10.2	111	0.01
57	T	Chlorobenzene	10.000	10.428	-4.3	107	0.00
58	T	Ethyl Benzene	10.000	11.431	-14.3	103	0.00
59	T	m/p-Xylene	20.000	23.920	-19.6	109	0.03
60	T	o-Xylene	10.000	12.013	-20.1	110	0.00
61	T	Styrene	10.000	11.828	-18.3	98	0.00
62		Isopropylbenzene	10.000	11.784	-17.8	109	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	10.748	-7.5	114	0.00
64		n-propylbenzene	10.000	11.517	-15.2	109	0.00
65		tert-Butylbenzene	10.000	12.010	-20.1	111	0.00
66	T	Benzyl Chloride	10.000	12.798	-28.0	107	0.00
67		sec-Butylbenzene	10.000	11.992	-19.9	112	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	11.051	-10.5	100	0.00
69		p-Isopropyltoluene	10.000	11.931	-19.3	111	0.00
70		n-Butylbenzene	10.000	12.144	-21.4	114	0.00
71		2-Chlorotoluene	10.000	11.862	-18.6	109	0.00
72	T	4-Ethyltoluene	10.000	12.424	-24.2	111	0.00
73	T	1,3,5-Trimethylbenzene	10.000	12.248	-22.5	112	0.00
74	T	1,2,4-Trimethylbenzene	10.000	11.441	-14.4	113	0.00
75	T	1,3-Dichlorobenzene	10.000	11.074	-10.7	113	0.00
76	T	1,4-Dichlorobenzene	10.000	11.906	-19.1	113	0.00
77	T	1,2-Dichlorobenzene	10.000	11.034	-10.3	114	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	9.859	1.4	113	0.00
79	T	Naphthalene	10.000	12.239	-22.4	110	0.00
80	T	Naphthalene,2-methyl-	10.000	12.673	-26.7	110	0.00
81	T	1,2,4-Trichlorobenzene	10.000	11.147	-11.5	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042488.D
Acq On : 06 May 2025 09:49
Operator : SY/MD
Sample : VL0506ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABL01

Quant Time: May 07 01:36:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

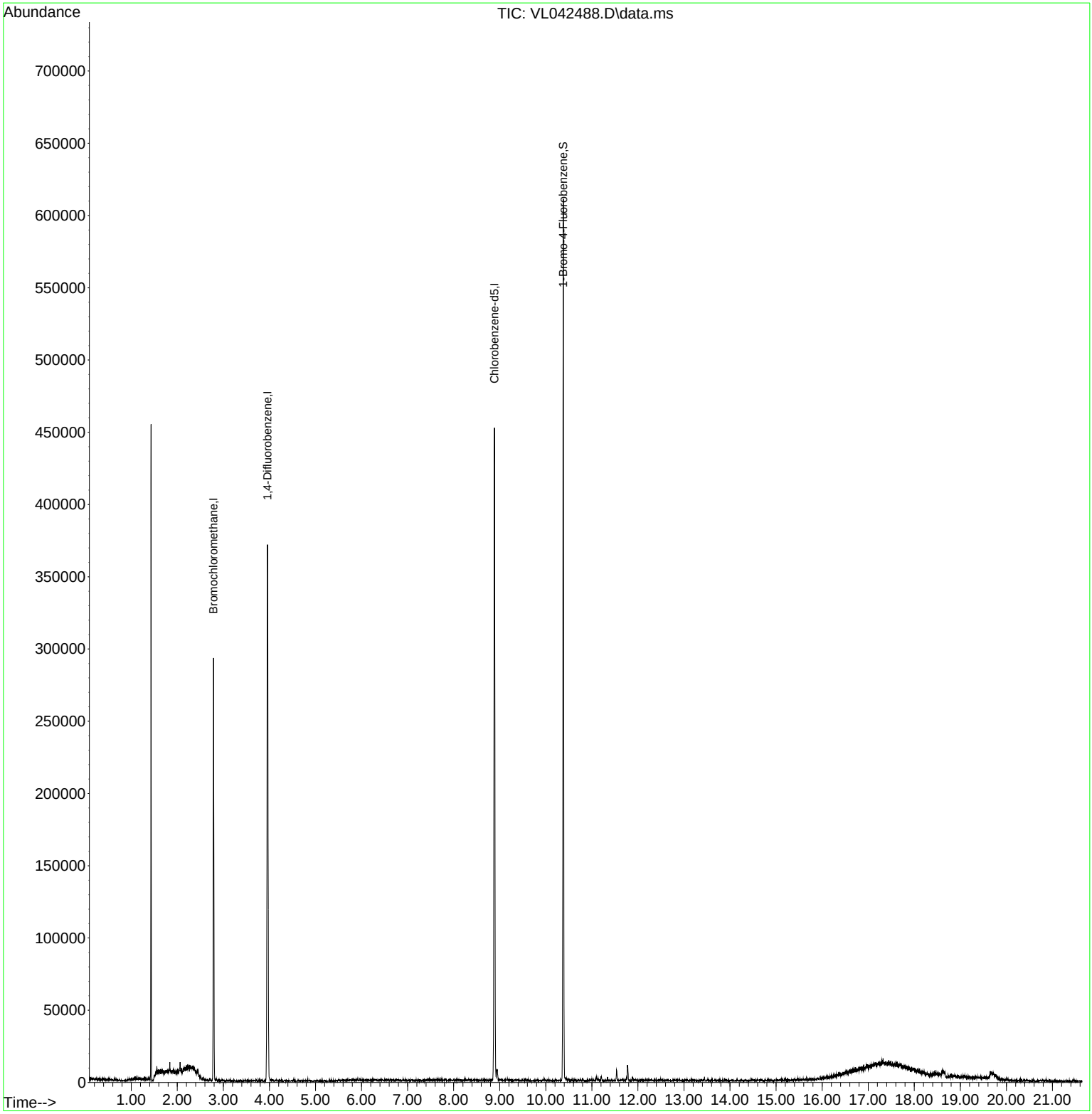
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	71766	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	194806	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	158449	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	146316	9.960	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\VL050625\
Data File : VL042488.D
Acq On : 06 May 2025 09:49
Operator : SY/MD
Sample : VL0506ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABL01

Quant Time: May 07 01:36:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042489.D
Acq On : 06 May 2025 10:44
Operator : SY/MD
Sample : VL0506ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:36:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	68512	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	189766	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	162176	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	162347	10.797	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 108.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	128425	11.327	ppbv	99
3) Chlorodifluoromethane	1.476	51	120834	10.080	ppbv	98
4) Chloromethane	1.531	50	51363	10.839	ppbv	94
5) Vinyl Chloride	1.580	62	50552	10.596	ppbv	95
6) Bromomethane	1.667	94	24844	11.021	ppbv #	81
7) Chloroethane	1.706	64	19253	10.929	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	108256	11.583	ppbv	99
9) Propene	1.483	41	36687	9.357	ppbv	100
10) Heptane	4.985	43	108748	10.693	ppbv	99
11) Trichlorofluoromethane	1.878	101	118964	11.371	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	92491	11.072	ppbv	97
13) Ethanol	1.722	45	5717	7.185	ppbv	96
14) Bromoethene	1.781	108	35036	11.361	ppbv	99
15) Acetone	1.836	43	110911	8.868	ppbv	98
16) 1,3-Butadiene	1.609	39	57769	10.473	ppbv	100
17) tert-Butyl alcohol	2.043	59	121629	11.038	ppbv	98
18) 1,1-Dichloroethene	2.033	96	41573	10.658	ppbv	91
19) Isopropyl Alcohol	1.887	45	70143	10.133	ppbv	100
20) Methylene Chloride	2.062	84	38025	10.113	ppbv	97
21) Allyl Chloride	2.095	41	87030	10.820	ppbv	98
22) trans-1,2-Dichloroethene	2.341	96	46194	10.140	ppbv	92
23) Vinyl Acetate	2.463	43	122507	10.263	ppbv	99
24) 1,1-Dichloroethane	2.408	63	99878	10.747	ppbv	98
25) Ethyl Acetate	2.839	43	207809	10.377	ppbv	99
26) Hexane	2.826	57	94005	10.775	ppbv	95
27) Carbon Disulfide	2.150	76	118732	11.662	ppbv #	89
28) Methyl tert-Butyl Ether	2.441	73	52295	9.977	ppbv	97
29) Chloroform	2.849	83	178140	10.896	ppbv	98
30) Cyclohexane	3.858	84	78419	10.751	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	102999	10.119	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	185042	10.433	ppbv	99
34) 2-Butanone	2.561	43	135534	9.874	ppbv	95
35) Carbon Tetrachloride	3.765	117	192452	11.164	ppbv	96
36) Benzene	3.658	78	188082	10.503	ppbv	96
37) 1,2-Dichloroethane	3.221	62	150741	10.922	ppbv	99
38) Trichloroethene	4.554	130	75153	11.005	ppbv	97
39) 1,2-Dichloropropane	4.315	63	67616	10.086	ppbv	92
40) 1,4-Dioxane	4.583	88	30720	9.786	ppbv #	100
41) Tetrahydrofuran	3.056	42	66397	10.179	ppbv	98
42) Bromodichloromethane	4.496	83	188247	11.163	ppbv	96
43) Methyl Methacrylate	4.888	69	73710	11.030	ppbv	95
44) 2,2,4-Trimethylpentane	4.642	57	317017	10.921	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	95245	10.864	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042489.D
Acq On : 06 May 2025 10:44
Operator : SY/MD
Sample : VL0506ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:36:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	112024	10.751	ppbv	96
47) 1,1,2-Trichloroethane	6.590	97	80000	10.880	ppbv	99
48) Dibromochloromethane	7.390	129	137019	11.039	ppbv	99
49) Bromoform	9.487	173	115649	11.110	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	179961	10.365	ppbv	97
51) 2-Hexanone	7.441	43	143801	10.359	ppbv #	99
52) Tetrachloroethene	8.228	164	61852	9.074	ppbv	94
53) Toluene	6.940	91	211514	11.159	ppbv	99
54) 1,2-Dibromoethane	7.655	107	119785	10.656	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.927	131	107810	11.256	ppbv	99
57) Chlorobenzene	8.927	112	170186	10.444	ppbv	98
58) Ethyl Benzene	9.361	91	316187	11.667	ppbv	100
59) m/p-Xylene	9.555	91	546871m	24.069	ppbv	
60) o-Xylene	9.966	91	275574	12.114	ppbv	98
61) Styrene	9.875	104	100944	11.891	ppbv	95
62) Isopropylbenzene	10.542	105	386743	11.786	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	168155	10.722	ppbv	99
64) n-propylbenzene	10.992	120	95485	11.906	ppbv	98
65) tert-Butylbenzene	11.536	119	347665	11.872	ppbv	97
66) Benzyl Chloride	11.617	91	44409	13.121	ppbv	96
67) sec-Butylbenzene	11.772	105	500648	12.031	ppbv	99
69) p-Isopropyltoluene	11.931	119	418184	11.927	ppbv	99
70) n-Butylbenzene	12.283	91	439757	12.133	ppbv	99
71) 2-Chlorotoluene	10.905	91	304635	11.836	ppbv	99
72) 4-Ethyltoluene	11.128	105	332254	12.388	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	285001	12.082	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	326996	11.457	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	176191	11.089	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	173576	11.543	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	171125	11.003	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	153031	9.854	ppbv	99
79) Naphthalene	13.517	128	289175	12.036	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	236741	13.257	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	142190	11.096	ppbv	98

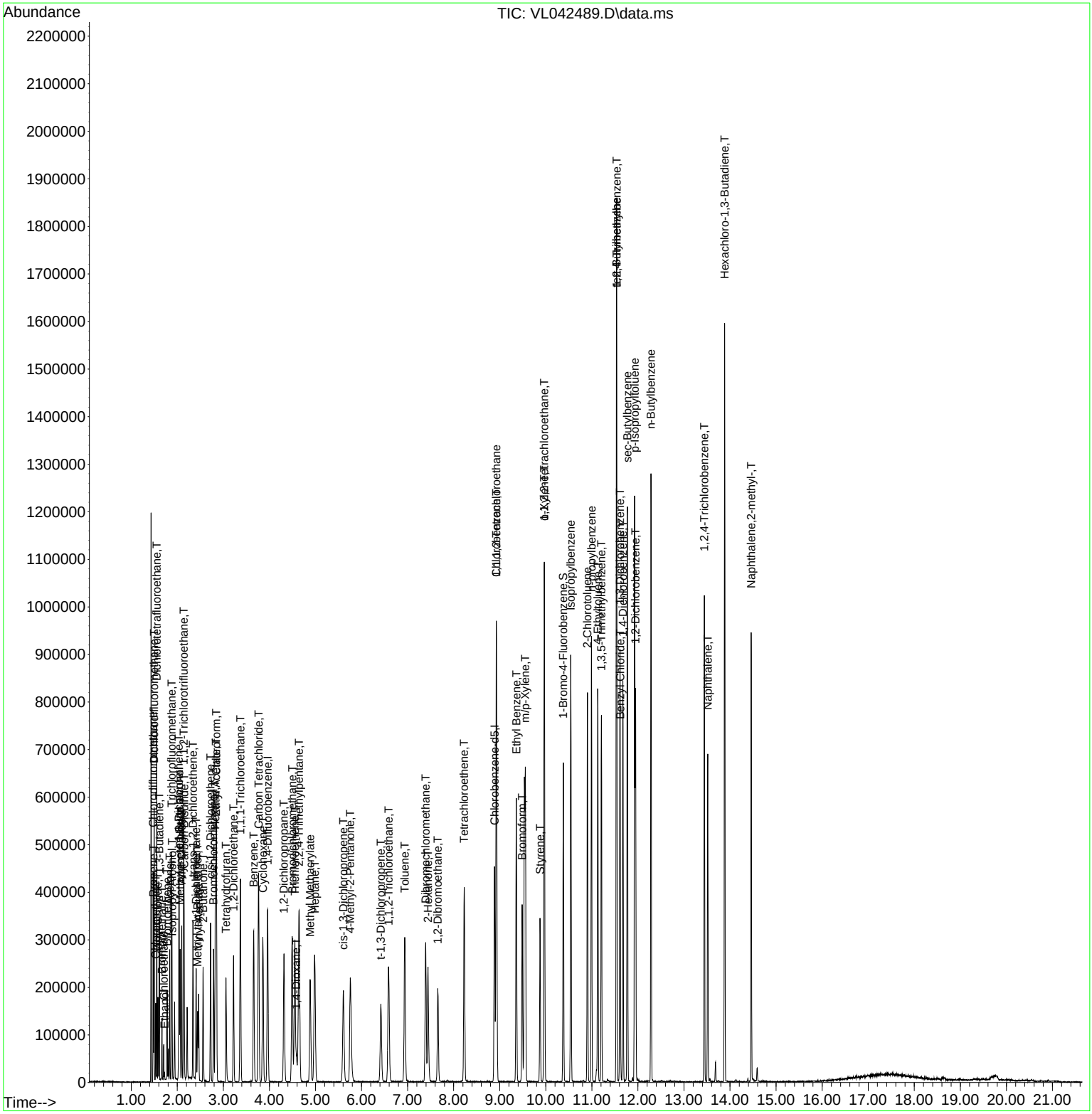
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042489.D
Acq On : 06 May 2025 10:44
Operator : SY/MD
Sample : VL0506ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 07 01:36:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 05/07/2025
Supervised By :Mahesh Dadoda 05/09/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
Data File : VL042492.D
Acq On : 06 May 2025 12:19
Operator : SY/MD
Sample : QC042225 CAN 10669
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC042225 CAN 10669

Quant Time: May 07 01:38:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

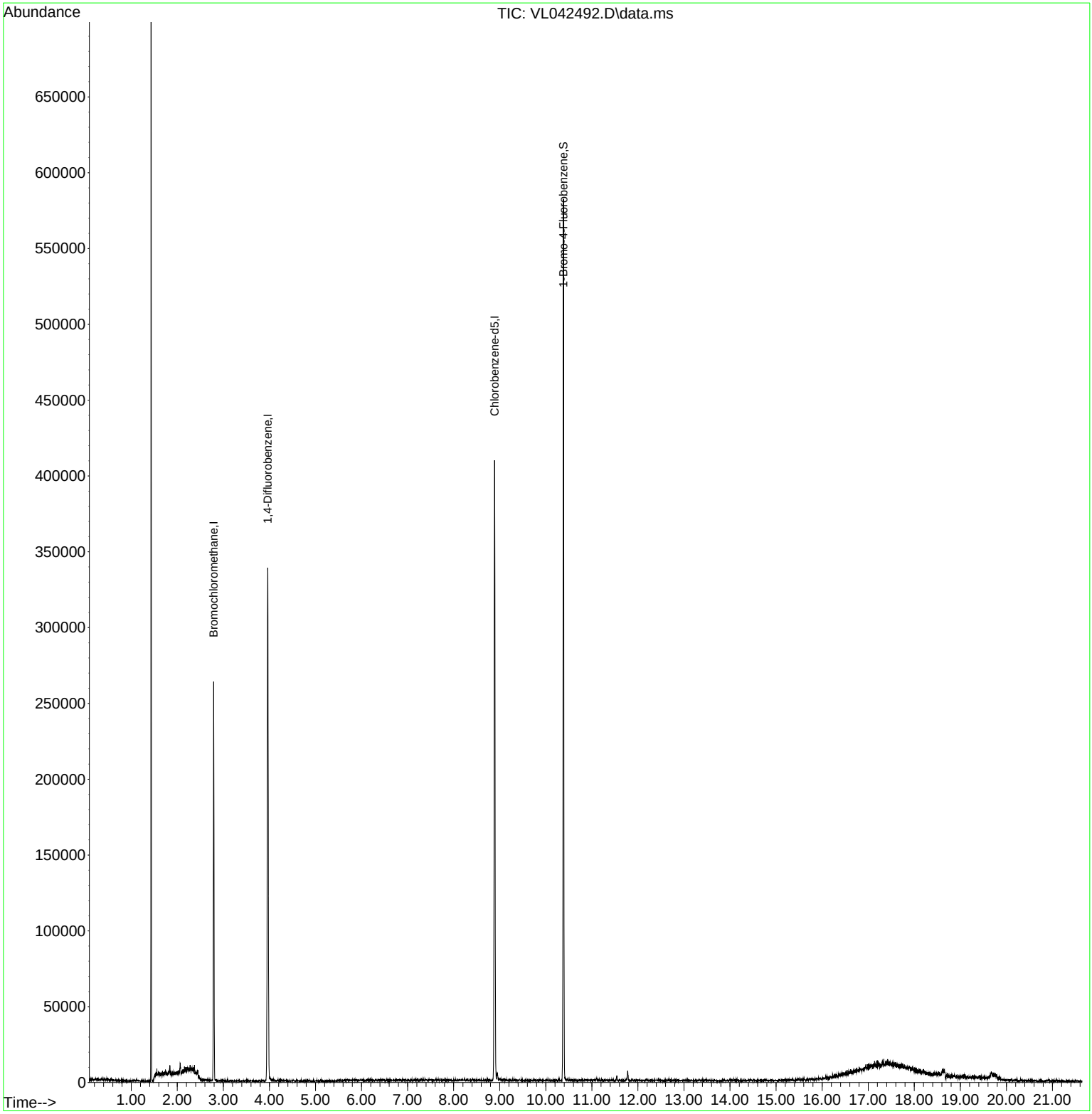
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	63187	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	172595	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	143665	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	131884	9.901	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\VL050625\
Data File : VL042492.D
Acq On : 06 May 2025 12:19
Operator : SY/MD
Sample : QC042225 CAN 10669
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC042225 CAN 10669

Quant Time: May 07 01:38:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



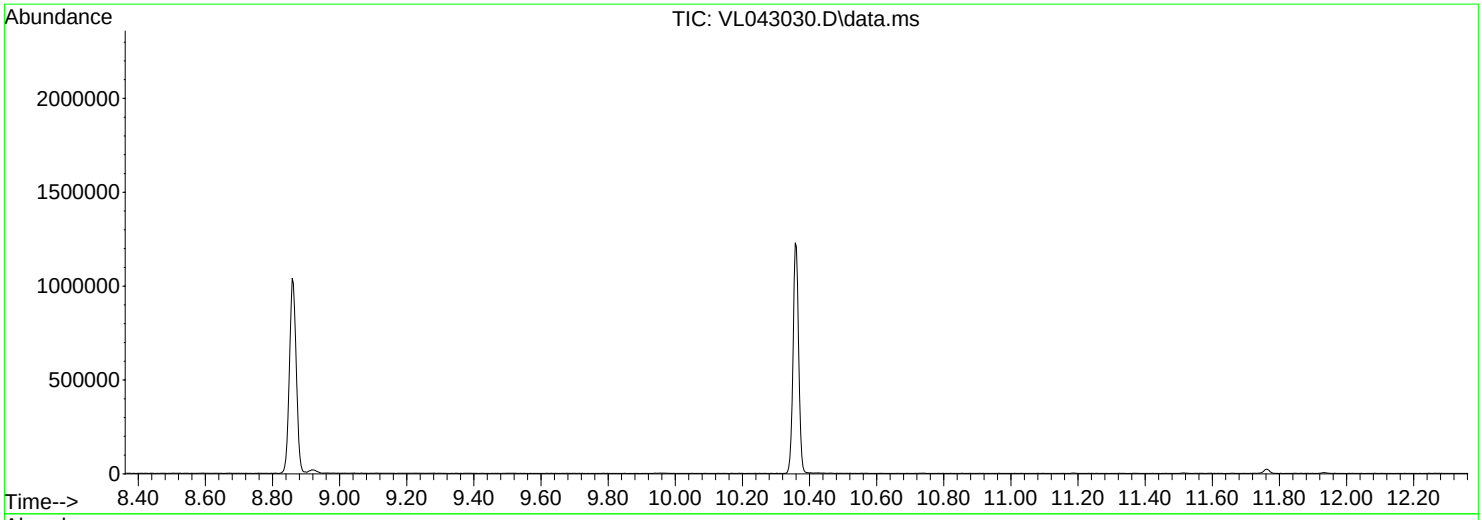
BFB

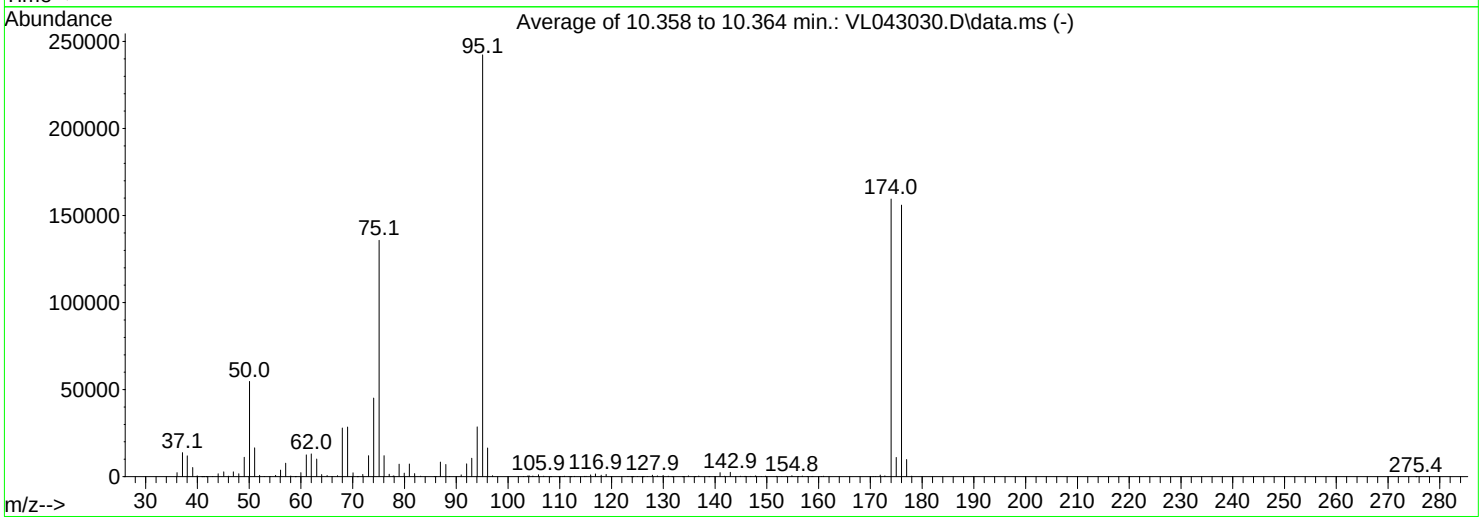
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043030.D
Acq On : 02 Oct 2025 09:11
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Oct 03 08:23:34 2025





AutoFind: Scans 3173, 3174, 3175; Background Corrected with Scan 3150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	54675	PASS
75	95	30	66	56.0	135808	PASS
95	95	100	100	100.0	242325	PASS
96	95	5	9	6.8	16496	PASS
173	174	0.00	2	0.3	425	PASS
174	95	50	120	65.8	159467	PASS
175	174	4	9	6.9	10992	PASS
176	174	93	101	97.8	156032	PASS
177	176	5	9	6.3	9819	PASS

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL100225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Oct 03 08:23:34 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL043037.D 0.1 =VL043036.D 0.5 =VL043031.D 1 =VL043034.D 2 =VL043033.D 10 =VL043032.D 15 =VL043038.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.748	1.803	1.698	1.587	1.591	1.685	5.66
3)		Chlorodifluoro...			1.726	1.701	1.684	1.527	1.513	1.630	6.23
4)		Chloromethane			0.644	0.663	0.614	0.577	0.580	0.616	6.17
5)	T	Vinyl Chloride	0.573	0.687	0.605	0.573	0.564	0.539	0.548	0.584	8.59
6)	T	Bromomethane			0.260	0.283	0.270	0.248	0.252	0.263	5.35
7)		Chloroethane			0.259	0.257	0.256	0.223	0.224	0.244	7.62
8)	T	Dichlorotetraf...			1.429	1.430	1.438	1.301	1.307	1.381	5.09
9)	T	Propene			0.657	0.691	0.697	0.633	0.609	0.657	5.69
10)	T	Heptane			1.331	1.565	1.650	1.760	1.776	1.616	11.19
11)	T	Trichlorofluor...			1.770	1.866	1.761	1.621	1.642	1.732	5.83
12)	T	1,1,2-Trichlor...			1.449	1.410	1.392	1.284	1.286	1.364	5.50
13)		Ethanol			0.085	0.049	0.041	0.027	0.026	0.045#	52.72
14)	T	Bromoethene			0.507	0.499	0.501	0.469	0.469	0.489	3.80
15)	T	Acetone			1.669	1.561	1.472	1.143	1.155	1.400	17.12
16)	T	1,3-Butadiene			0.609	0.587	0.611	0.536	0.543	0.577	6.17
17)		tert-Butyl alc...			1.663	1.586	1.437	1.377	1.344	1.481	9.28
18)	T	1,1-Dichloroet...			0.607	0.626	0.610	0.575	0.572	0.598	3.90
19)	T	Isopropyl Alcohol			0.768	0.727	0.667	0.603	0.589	0.671	11.56
20)	T	Methylene Chlo...			0.809	0.684	0.577	0.490	0.496	0.611	22.19
21)	T	Allyl Chloride			0.982	0.888	0.920	0.843	0.852	0.897	6.32
22)	T	trans-1,2-Dich...			0.723	0.713	0.676	0.635	0.648	0.679	5.74
23)	T	Vinyl Acetate			0.388	0.316	0.308	0.244	0.231	0.297	21.19
24)	T	1,1-Dichloroet...			1.347	1.365	1.295	1.206	1.221	1.287	5.57
25)	T	Ethyl Acetate			3.265	3.663	3.644	3.520	3.471	3.513	4.56
26)	T	Hexane			1.261	1.271	1.413	1.401	1.411	1.351	5.80
27)	T	Carbon Disulfide			1.681	1.655	1.576	1.521	1.543	1.595	4.37
28)	T	Methyl tert-Bu...			0.853	0.872	0.868	0.823	0.813	0.846	3.14
29)	T	Chloroform			2.393	2.395	2.326	2.206	2.199	2.304	4.19
30)	T	Cyclohexane			0.947	1.068	1.145	1.191	1.200	1.110	9.46
31)	T	cis-1,2-Dichlo...			1.329	1.390	1.436	1.403	1.388	1.389	2.79
32)	T	1,1,1-Trichlor...	2.543	2.098	2.204	2.216	2.255	2.170	2.186	2.239	6.38
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.704	0.685	0.695	0.655	0.654	0.679	3.42
35)	T	Carbon Tetrach...	1.006	0.828	0.816	0.805	0.770	0.761	0.773	0.823	10.30
36)	T	Benzene			0.901	0.984	0.971	0.964	0.957	0.955	3.32
37)	T	1,2-Dichloroet...			0.584	0.577	0.570	0.547	0.551	0.566	2.79
38)	T	Trichloroethene	0.355	0.386	0.404	0.424	0.402	0.409	0.407	0.398	5.58
39)	T	1,2-Dichloropr...			0.360	0.362	0.354	0.350	0.345	0.354	2.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL100225AIR.M

40)	T	1,4-Dioxane			0.146	0.151	0.152	0.157	0.154	0.152	2.71
41)	T	Tetrahydrofuran			0.297	0.338	0.365	0.376	0.378	0.351	9.74
42)	T	Bromodichlorom...			0.818	0.805	0.791	0.788	0.793	0.799	1.55
43)		Methyl Methacr...			0.281	0.286	0.308	0.353	0.358	0.317	11.50
44)	T	2,2,4-Trimethy...			1.388	1.494	1.589	1.593	1.601	1.533	6.01
45)	T	t-1,3-Dichloro...			0.268	0.268	0.279	0.314	0.322	0.290	8.91
46)	T	cis-1,3-Dichlo...			0.374	0.386	0.396	0.440	0.449	0.409	8.23
47)	T	1,1,2-Trichlor...			0.414	0.405	0.395	0.376	0.379	0.394	4.18
48)	T	Dibromochlorom...			0.610	0.644	0.644	0.661	0.655	0.643	3.10
49)	T	Bromoform			0.492	0.516	0.542	0.560	0.575	0.537	6.24
50)	T	4-Methyl-2-Pen...			0.719	0.763	0.820	0.910	0.926	0.827	10.90
51)	T	2-Hexanone			0.438	0.515	0.578	0.693	0.720	0.589	20.15
52)	T	Tetrachloroethene	0.424	0.328	0.339	0.343	0.352	0.345	0.346	0.354	9.02
53)	T	Toluene			0.790	0.881	0.966	1.087	1.099	0.965	13.74
54)	T	1,2-Dibromoethane		0.445	0.448	0.472	0.471	0.481	0.484	0.467	3.56
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.631	0.623	0.614	0.591	0.590	0.610	3.04
57)	T	Chlorobenzene			1.088	1.096	1.086	1.015	1.002	1.057	4.24
58)	T	Ethyl Benzene			1.232	1.379	1.598	1.759	1.778	1.549	15.41
59)	T	m/p-Xylene			1.012	1.231	1.401	1.443	1.446	1.307	14.29
60)	T	o-Xylene			1.020	1.216	1.385	1.439	1.448	1.302	14.07
61)	T	Styrene			0.398	0.449	0.523	0.666	0.691	0.545	23.81
62)		Isopropylbenzene			1.675	1.919	2.082	2.141	2.174	1.998	10.30
63)	T	1,1,2,2-Tetrac...	1.080	0.884	0.919	0.949	0.949	0.870	0.886	0.934	7.66
64)		n-propylbenzene			0.384	0.491	0.540	0.562	0.579	0.511	15.38
65)		tert-Butylbenzene			1.384	1.730	1.932	1.928	1.918	1.778	13.28
66)	T	Benzyl Chloride			0.064	0.066	0.066	0.069	0.075	0.068	6.61
67)		sec-Butylbenzene			1.912	2.476	2.742	2.652	2.626	2.482	13.41
68)	S	1-Bromo-4-Fluo...	0.688	0.692	0.727	0.726	0.732	0.735	0.743	0.720	3.00
69)		p-Isopropyltol...			1.499	1.879	2.234	2.250	2.231	2.019	16.33
70)		n-Butylbenzene			1.361	1.776	2.148	2.222	2.212	1.944	19.22
71)		2-Chlorotoluene			1.156	1.348	1.522	1.583	1.621	1.446	13.34
72)	T	4-Ethyltoluene			1.145	1.426	1.647	1.751	1.778	1.549	17.12
73)	T	1,3,5-Trimethy...			1.041	1.271	1.423	1.470	1.496	1.340	14.06
74)	T	1,2,4-Trimethy...			1.133	1.492	1.676	1.633	1.630	1.513	14.77
75)	T	1,3-Dichlorobe...			0.932	0.986	1.031	0.976	0.994	0.984	3.60
76)	T	1,4-Dichlorobe...			0.825	0.929	0.990	0.967	0.980	0.938	7.20
77)	T	1,2-Dichlorobe...			0.951	1.037	1.036	0.930	0.945	0.980	5.35
78)	T	Hexachloro-1,3...			0.683	0.705	0.731	0.645	0.650	0.683	5.29
79)	T	Naphthalene		0.333	0.611	0.746	1.115	1.288	1.326	0.903	44.50
80)	T	Naphthalene,2-...			0.645	0.167	0.278	0.567	0.629	0.457	48.04
81)	T	1,2,4-Trichlor...			0.383	0.476	0.629	0.696	0.731	0.583	25.49

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043031.D
Acq On : 02 Oct 2025 09:50
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:00:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.774	49	172062	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	504004	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	415115	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.357	95	301605	10.086	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	15037	0.519	ppbv	97
3) Chlorodifluoromethane	1.470	51	14848	0.529	ppbv	96
4) Chloromethane	1.528	50	5542	0.523	ppbv	91
5) Vinyl Chloride	1.573	62	5205	0.518	ppbv	99
6) Bromomethane	1.660	94	2235	0.495	ppbv	87
7) Chloroethane	1.696	64	2228	0.531	ppbv	94
8) Dichlorotetrafluoroethane	1.547	85	12294	0.517	ppbv	99
9) Propene	1.479	41	5652	0.500	ppbv	95
10) Heptane	4.949	43	11455m	0.411	ppbv	
11) Trichlorofluoromethane	1.871	101	15230	0.511	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.130	101	12463	0.531	ppbv	99
13) Ethanol	1.716	45	729	0.509	ppbv #	31
14) Bromoethene	1.774	108	4364	0.519	ppbv #	91
15) Acetone	1.829	43	14360	0.596	ppbv	100
16) 1,3-Butadiene	1.602	39	5235	0.527	ppbv	97
17) tert-Butyl alcohol	2.033	59	14304	0.561	ppbv	96
18) 1,1-Dichloroethene	2.026	96	5223	0.508	ppbv	93
19) Isopropyl Alcohol	1.877	45	6611	0.573	ppbv #	32
20) Methylene Chloride	2.052	84	6961	0.662	ppbv	92
21) Allyl Chloride	2.088	41	8450	0.547	ppbv	97
22) trans-1,2-Dichloroethene	2.327	96	6223	0.533	ppbv	89
23) Vinyl Acetate	2.447	43	3334	0.652	ppbv #	82
24) 1,1-Dichloroethane	2.398	63	11586	0.523	ppbv	99
25) Ethyl Acetate	2.822	43	28090	0.465	ppbv	98
26) Hexane	2.813	57	10845	0.466	ppbv	92
27) Carbon Disulfide	2.140	76	14458	0.527	ppbv #	36
28) Methyl tert-Butyl Ether	2.431	73	7340	0.505	ppbv	94
29) Chloroform	2.835	83	20586	0.519	ppbv	97
30) Cyclohexane	3.839	84	8149	0.427	ppbv	93
31) cis-1,2-Dichloroethene	2.706	61	11430	0.478	ppbv	95
32) 1,1,1-Trichloroethane	3.350	97	18962	0.492	ppbv	97
34) 2-Butanone	2.547	43	17736	0.519	ppbv	100
35) Carbon Tetrachloride	3.742	117	20564	0.496	ppbv	93
36) Benzene	3.638	78	22717	0.472	ppbv	93
37) 1,2-Dichloroethane	3.204	62	14711	0.516	ppbv	98
38) Trichloroethene	4.515	130	10181m	0.507	ppbv	
39) 1,2-Dichloropropane	4.289	63	9070	0.508	ppbv #	86
40) 1,4-Dioxane	4.570	88	3676m	0.480	ppbv	
41) Tetrahydrofuran	3.046	42	7477	0.423	ppbv	95
42) Bromodichloromethane	4.463	83	20614	0.512	ppbv #	97
43) Methyl Methacrylate	4.852	69	7092	0.444	ppbv	91
44) 2,2,4-Trimethylpentane	4.616	57	34977	0.453	ppbv	96
45) t-1,3-Dichloropropene	6.376	75	6760m	0.467	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043031.D
Acq On : 02 Oct 2025 09:50
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:00:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.561	75	9423m	0.458	ppbv		
47) 1,1,2-Trichloroethane	6.551	97	10438	0.526	ppbv		91
48) Dibromochloromethane	7.357	129	15360	0.474	ppbv		94
49) Bromoform	9.461	173	12398	0.458	ppbv		95
50) 4-Methyl-2-Pentanone	5.726	43	18115	0.434	ppbv		100
51) 2-Hexanone	7.418	43	11043m	0.373	ppbv		
52) Tetrachloroethene	8.205	164	8537	0.476	ppbv		94
53) Toluene	6.904	91	19917m	0.410	ppbv		
54) 1,2-Dibromoethane	7.626	107	11279	0.479	ppbv		89
56) 1,1,1,2-Tetrachloroethane	8.901	131	13091	0.517	ppbv	#	1
57) Chlorobenzene	8.898	112	22573	0.514	ppbv		95
58) Ethyl Benzene	9.335	91	25575	0.398	ppbv		96
59) m/p-Xylene	9.529	91	42005m	0.774	ppbv		
60) o-Xylene	9.943	91	21166	0.392	ppbv		97
61) Styrene	9.849	104	8258	0.365	ppbv		98
62) Isopropylbenzene	10.522	105	34761	0.419	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.943	83	19066	0.490	ppbv		99
64) n-propylbenzene	10.972	120	7963	0.375	ppbv		87
65) tert-Butylbenzene	11.516	119	28729	0.389	ppbv		97
66) Benzyl Chloride	11.600	91	1321	0.462	ppbv	#	92
67) sec-Butylbenzene	11.752	105	39676	0.385	ppbv		98
69) p-Isopropyltoluene	11.911	119	31118	0.371	ppbv		98
70) n-Butylbenzene	12.267	91	28253	0.350	ppbv		95
71) 2-Chlorotoluene	10.885	91	24004	0.400	ppbv		98
72) 4-Ethyltoluene	11.108	105	23762	0.369	ppbv	#	96
73) 1,3,5-Trimethylbenzene	11.186	105	21617	0.389	ppbv		98
74) 1,2,4-Trimethylbenzene	11.523	105	23511	0.374	ppbv		88
75) 1,3-Dichlorobenzene	11.590	146	19346	0.474	ppbv		99
76) 1,4-Dichlorobenzene	11.655	146	17115	0.440	ppbv		98
77) 1,2-Dichlorobenzene	11.934	146	19742	0.485	ppbv		99
78) Hexachloro-1,3-Butadiene	13.866	225	14174	0.500	ppbv		99
79) Naphthalene	13.500	128	12682	0.479	ppbv	#	96
80) Naphthalene,2-methyl-	14.442	142	13384	1.165	ppbv		95
81) 1,2,4-Trichlorobenzene	13.426	180	7952	0.329	ppbv		99

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

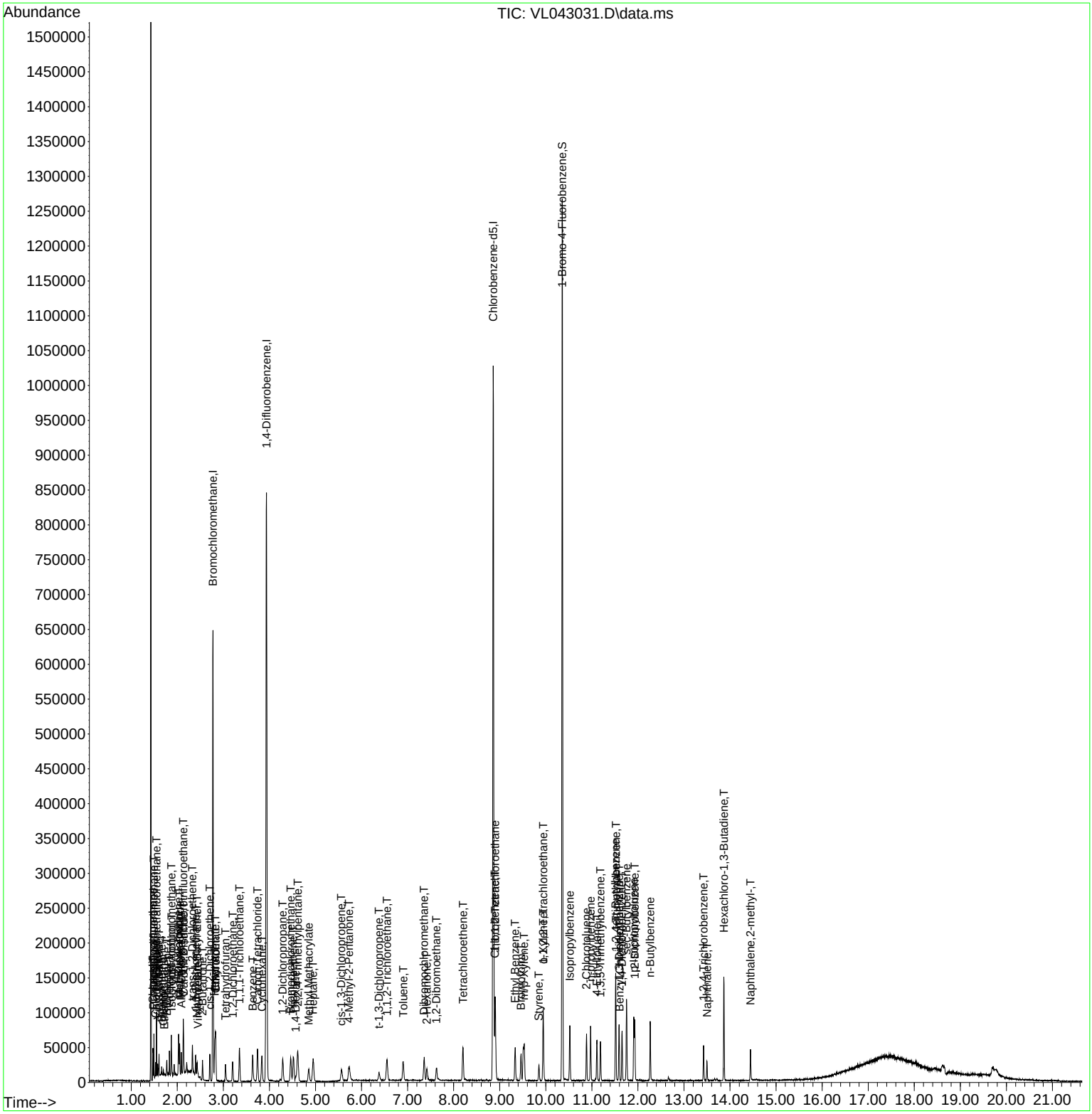
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043031.D
Acq On : 02 Oct 2025 09:50
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:00:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043032.D
Acq On : 02 Oct 2025 10:23
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:01:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.774	49	175694	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	523534	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	448396	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	329578	10.203	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	278856	9.417	ppbv	100
3) Chlorodifluoromethane	1.473	51	268344	9.368	ppbv	100
4) Chloromethane	1.528	50	101430	9.378	ppbv	100
5) Vinyl Chloride	1.576	62	94623	9.218	ppbv	100
6) Bromomethane	1.664	94	43581	9.448	ppbv	100
7) Chloroethane	1.699	64	39123	9.134	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	228586	9.421	ppbv	100
9) Propene	1.479	41	111264	9.633	ppbv	100
10) Heptane	4.956	43	309134	10.867	ppbv	100
11) Trichlorofluoromethane	1.871	101	284734	9.357	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.130	101	225532	9.410	ppbv	100
13) Ethanol	1.716	45	4785	10.163	ppbv	100
14) Bromoethene	1.777	108	82329	9.582	ppbv	100
15) Acetone	1.829	43	200896	8.166	ppbv	100
16) 1,3-Butadiene	1.606	39	94239	9.292	ppbv	100
17) tert-Butyl alcohol	2.033	59	241909	9.297	ppbv	100
18) 1,1-Dichloroethene	2.026	96	101035	9.617	ppbv	100
19) Isopropyl Alcohol	1.877	45	105917	8.986	ppbv	100
20) Methylene Chloride	2.052	84	86085	8.017	ppbv	100
21) Allyl Chloride	2.088	41	148094	9.397	ppbv	100
22) trans-1,2-Dichloroethene	2.331	96	111481	9.346	ppbv	100
23) Vinyl Acetate	2.450	43	42908	8.216	ppbv	100
24) 1,1-Dichloroethane	2.399	63	211973	9.375	ppbv	100
25) Ethyl Acetate	2.819	43	618469	10.022	ppbv	100
26) Hexane	2.813	57	246127	10.368	ppbv	100
27) Carbon Disulfide	2.143	76	267294	9.537	ppbv	100
28) Methyl tert-Butyl Ether	2.428	73	144534	9.729	ppbv	100
29) Chloroform	2.836	83	387615	9.577	ppbv	100
30) Cyclohexane	3.839	84	209266	10.728	ppbv	100
31) cis-1,2-Dichloroethene	2.709	61	246505	10.101	ppbv	100
32) 1,1,1-Trichloroethane	3.353	97	381212	9.691	ppbv	100
34) 2-Butanone	2.544	43	342678	9.647	ppbv	100
35) Carbon Tetrachloride	3.745	117	398481	9.251	ppbv	100
36) Benzene	3.638	78	504680	10.090	ppbv	100
37) 1,2-Dichloroethane	3.201	62	286590	9.674	ppbv	100
38) Trichloroethene	4.525	130	214186	10.277	ppbv	100
39) 1,2-Dichloropropane	4.292	63	182987	9.870	ppbv	100
40) 1,4-Dioxane	4.554	88	82195	10.324	ppbv #	98
41) Tetrahydrofuran	3.036	42	196992	10.730	ppbv	100
42) Bromodichloromethane	4.467	83	412493	9.861	ppbv	100
43) Methyl Methacrylate	4.852	69	184960	11.139	ppbv	100
44) 2,2,4-Trimethylpentane	4.616	57	834185	10.393	ppbv	100
45) t-1,3-Dichloropropene	6.386	75	164433	10.931	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043032.D
Acq On : 02 Oct 2025 10:23
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:01:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.574	75	230231	10.772	ppbv	100
47) 1,1,2-Trichloroethane	6.551	97	196990	9.552	ppbv	100
48) Dibromochloromethane	7.364	129	345945	10.278	ppbv	100
49) Bromoform	9.464	173	292987	10.423	ppbv	100
50) 4-Methyl-2-Pentanone	5.713	43	476242	10.994	ppbv	100
51) 2-Hexanone	7.412	43	362983	11.817	ppbv	100
52) Tetrachloroethene	8.205	164	180664	9.693	ppbv	100
53) Toluene	6.907	91	568843	11.265	ppbv	100
54) 1,2-Dibromoethane	7.629	107	251974	10.309	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.907	131	264925	9.693	ppbv	100
57) Chlorobenzene	8.904	112	455049	9.600	ppbv	100
58) Ethyl Benzene	9.338	91	788510	11.351	ppbv	100
59) m/p-Xylene	9.532	91	1293839m	22.074	ppbv	
60) o-Xylene	9.946	91	645403	11.058	ppbv	100
61) Styrene	9.853	104	298597	12.212	ppbv	100
62) Isopropylbenzene	10.526	105	960158	10.716	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.946	83	390289	9.278	ppbv	100
64) n-propylbenzene	10.976	120	252073	10.998	ppbv	99
65) tert-Butylbenzene	11.516	119	864475	10.841	ppbv	100
66) Benzyl Chloride	11.604	91	30823	9.975	ppbv	100
67) sec-Butylbenzene	11.752	105	1189296	10.688	ppbv	100
69) p-Isopropyltoluene	11.914	119	1008951	11.146	ppbv	100
70) n-Butylbenzene	12.267	91	996449	11.433	ppbv	100
71) 2-Chlorotoluene	10.885	91	709807	10.946	ppbv	100
72) 4-Ethyltoluene	11.112	105	785118	11.302	ppbv	100
73) 1,3,5-Trimethylbenzene	11.189	105	659038	10.966	ppbv	100
74) 1,2,4-Trimethylbenzene	11.523	105	732252	10.796	ppbv	100
75) 1,3-Dichlorobenzene	11.594	146	437848	9.925	ppbv	100
76) 1,4-Dichlorobenzene	11.659	146	433712	10.311	ppbv	100
77) 1,2-Dichlorobenzene	11.934	146	417019	9.491	ppbv	100
78) Hexachloro-1,3-Butadiene	13.869	225	289398	9.452	ppbv	100
79) Naphthalene	13.500	128	577659	10.038	ppbv	100
80) Naphthalene,2-methyl-	14.445	142	254437	9.510	ppbv	100
81) 1,2,4-Trichlorobenzene	13.429	180	312011	11.936	ppbv	100

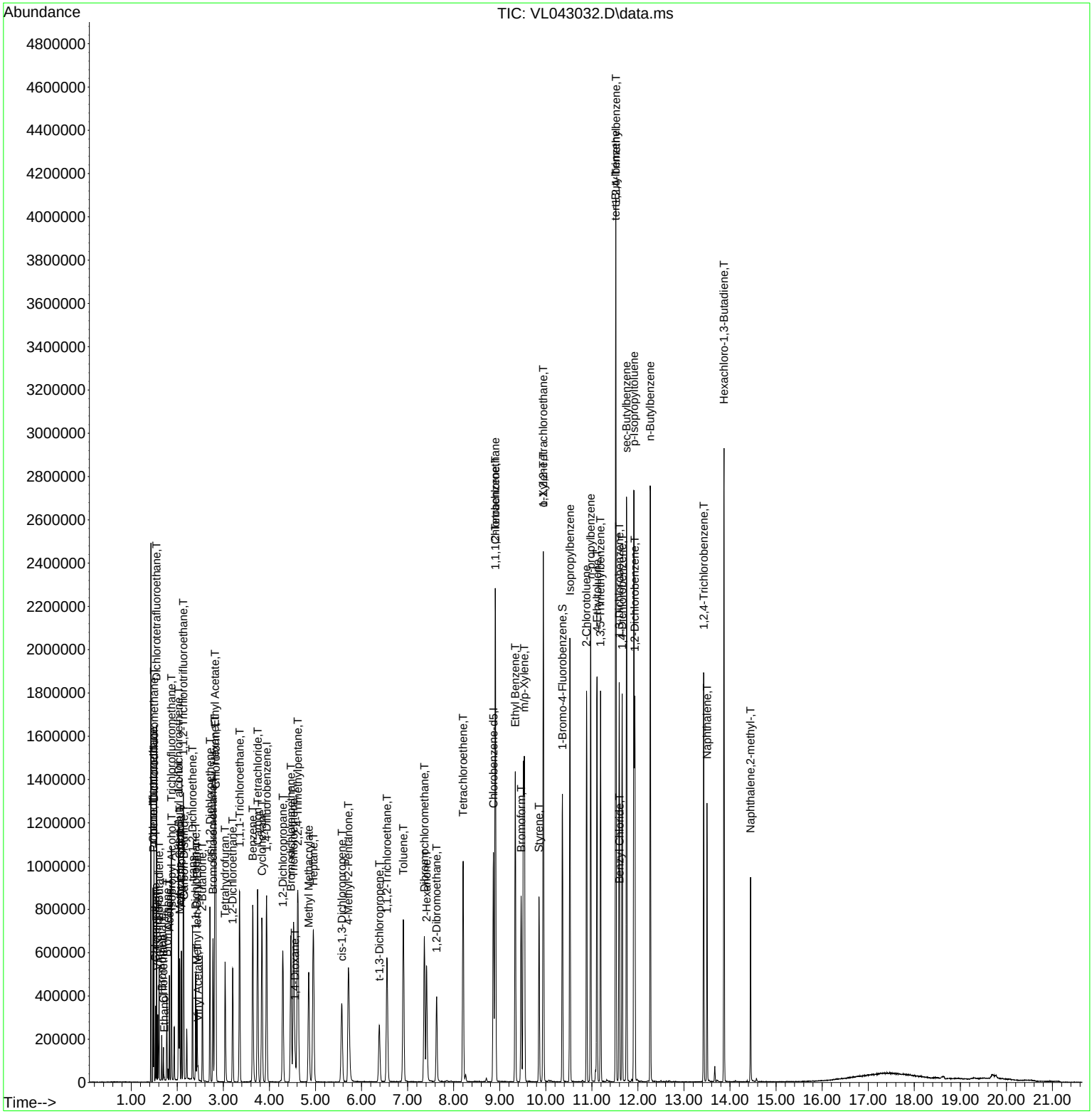
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043032.D
Acq On : 02 Oct 2025 10:23
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:01:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043033.D
Acq On : 02 Oct 2025 10:57
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:02:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.771	49	179740	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.936	114	541054	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.859	117	447624	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.357	95	327830	10.167	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.492	85	61057	2.016	ppbv		97
3) Chlorodifluoromethane	1.470	51	60544	2.066	ppbv		97
4) Chloromethane	1.528	50	22071	1.995	ppbv		98
5) Vinyl Chloride	1.573	62	20286	1.932	ppbv		98
6) Bromomethane	1.661	94	9696	2.055	ppbv		97
7) Chloroethane	1.696	64	9205	2.101	ppbv		96
8) Dichlorotetrafluoroethane	1.547	85	51709	2.083	ppbv		98
9) Propene	1.479	41	25044	2.119	ppbv		93
10) Heptane	4.952	43	59306	2.038	ppbv		98
11) Trichlorofluoromethane	1.871	101	63315	2.034	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.130	101	50042	2.041	ppbv		100
13) Ethanol	1.716	45	1472	2.168	ppbv	#	58
14) Bromoethene	1.774	108	18006	2.048	ppbv		98
15) Acetone	1.829	43	52918	2.103	ppbv		95
16) 1,3-Butadiene	1.602	39	21968	2.117	ppbv		96
17) tert-Butyl alcohol	2.030	59	51640	1.940	ppbv		98
18) 1,1-Dichloroethene	2.023	96	21932	2.040	ppbv		98
19) Isopropyl Alcohol	1.877	45	23979	1.989	ppbv	#	80
20) Methylene Chloride	2.052	84	20728	1.887	ppbv		95
21) Allyl Chloride	2.085	41	33088	2.052	ppbv		98
22) trans-1,2-Dichloroethene	2.331	96	24306	1.992	ppbv		95
23) Vinyl Acetate	2.450	43	11081	2.074	ppbv	#	92
24) 1,1-Dichloroethane	2.395	63	46548	2.012	ppbv		99
25) Ethyl Acetate	2.819	43	130995	2.075	ppbv		99
26) Hexane	2.813	57	50777	2.091	ppbv		96
27) Carbon Disulfide	2.140	76	56650	1.976	ppbv	#	70
28) Methyl tert-Butyl Ether	2.428	73	31189	2.052	ppbv		99
29) Chloroform	2.832	83	83628	2.020	ppbv		99
30) Cyclohexane	3.836	84	41150	2.062	ppbv		96
31) cis-1,2-Dichloroethene	2.706	61	51609	2.067	ppbv		95
32) 1,1,1-Trichloroethane	3.350	97	81078	2.015	ppbv		99
34) 2-Butanone	2.544	43	75222	2.049	ppbv		100
35) Carbon Tetrachloride	3.739	117	83331	1.872	ppbv		98
36) Benzene	3.635	78	105052	2.032	ppbv		98
37) 1,2-Dichloroethane	3.201	62	61665	2.014	ppbv		100
38) Trichloroethene	4.519	130	43500	2.020	ppbv		98
39) 1,2-Dichloropropane	4.289	63	38286	1.998	ppbv		97
40) 1,4-Dioxane	4.564	88	16471m	2.002	ppbv		
41) Tetrahydrofuran	3.043	42	39501	2.082	ppbv		98
42) Bromodichloromethane	4.464	83	85622	1.981	ppbv		94
43) Methyl Methacrylate	4.852	69	33288	1.940	ppbv		96
44) 2,2,4-Trimethylpentane	4.609	57	171998	2.074	ppbv		99
45) t-1,3-Dichloropropene	6.383	75	30227	1.944	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043033.D
Acq On : 02 Oct 2025 10:57
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:02:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.567	75	42818	1.938	ppbv		90
47) 1,1,2-Trichloroethane	6.548	97	42719	2.004	ppbv		93
48) Dibromochloromethane	7.357	129	69735	2.005	ppbv		100
49) Bromoform	9.461	173	58655	2.019	ppbv		99
50) 4-Methyl-2-Pentanone	5.719	43	88751	1.982	ppbv		100
51) 2-Hexanone	7.412	43	62520	1.969	ppbv	#	96
52) Tetrachloroethene	8.202	164	38059	1.976	ppbv		97
53) Toluene	6.907	91	104582	2.004	ppbv		100
54) 1,2-Dibromoethane	7.629	107	50973	2.018	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.901	131	54924	2.013	ppbv		95
57) Chlorobenzene	8.901	112	97190	2.054	ppbv		99
58) Ethyl Benzene	9.335	91	143037	2.063	ppbv		97
59) m/p-Xylene	9.529	91	250936m	4.289	ppbv		
60) o-Xylene	9.946	91	124006	2.128	ppbv		98
61) Styrene	9.849	104	46782	1.917	ppbv		98
62) Isopropylbenzene	10.523	105	186358	2.084	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.943	83	84916	2.022	ppbv		99
64) n-propylbenzene	10.972	120	48346	2.113	ppbv		90
65) tert-Butylbenzene	11.516	119	172968	2.173	ppbv		99
66) Benzyl Chloride	11.597	91	5886	1.908	ppbv		99
67) sec-Butylbenzene	11.752	105	245463	2.210	ppbv		99
69) p-Isopropyltoluene	11.911	119	200038	2.214	ppbv		99
70) n-Butylbenzene	12.267	91	192286	2.210	ppbv		98
71) 2-Chlorotoluene	10.885	91	136276	2.105	ppbv		99
72) 4-Ethyltoluene	11.108	105	147421	2.126	ppbv		99
73) 1,3,5-Trimethylbenzene	11.186	105	127419	2.124	ppbv		94
74) 1,2,4-Trimethylbenzene	11.519	105	150033	2.216	ppbv		98
75) 1,3-Dichlorobenzene	11.591	146	92272	2.095	ppbv		99
76) 1,4-Dichlorobenzene	11.655	146	88602	2.110	ppbv		99
77) 1,2-Dichlorobenzene	11.930	146	92779	2.115	ppbv		99
78) Hexachloro-1,3-Butadiene	13.866	225	65408	2.140	ppbv		99
79) Naphthalene	13.500	128	99793	2.006	ppbv		97
80) Naphthalene,2-methyl-	14.445	142	24913	1.530	ppbv		92
81) 1,2,4-Trichlorobenzene	13.426	180	56312	2.158	ppbv		99

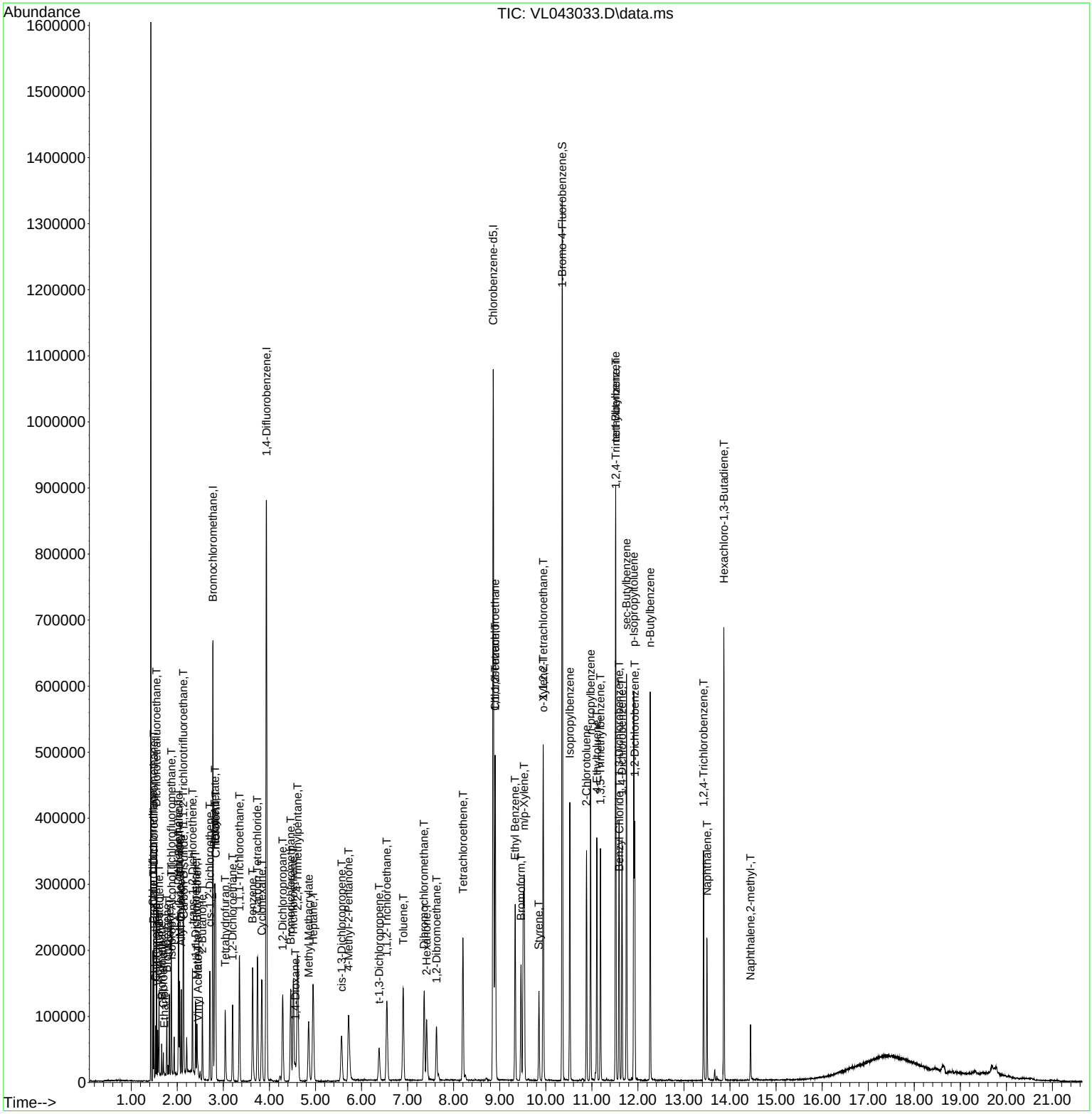
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043033.D
Acq On : 02 Oct 2025 10:57
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:02:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043034.D
Acq On : 02 Oct 2025 11:29
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:03:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.774	49	174129	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.936	114	522004	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.859	117	431704	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.357	95	313212	10.071	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.492	85	31391	1.070	ppbv		98
3) Chlorodifluoromethane	1.470	51	29622	1.043	ppbv		97
4) Chloromethane	1.528	50	11539	1.076	ppbv		91
5) Vinyl Chloride	1.573	62	9984	0.981	ppbv		98
6) Bromomethane	1.661	94	4926	1.078	ppbv		97
7) Chloroethane	1.699	64	4474	1.054	ppbv		90
8) Dichlorotetrafluoroethane	1.547	85	24892	1.035	ppbv		98
9) Propene	1.479	41	12033	1.051	ppbv		97
10) Heptane	4.952	43	27247	0.966	ppbv		98
11) Trichlorofluoromethane	1.871	101	32491	1.077	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.130	101	24551	1.034	ppbv		99
13) Ethanol	1.716	45	849	0.777	ppbv	#	48
14) Bromoethene	1.774	108	8693	1.021	ppbv	#	94
15) Acetone	1.829	43	27190	1.115	ppbv		97
16) 1,3-Butadiene	1.602	39	10229	1.018	ppbv		100
17) tert-Butyl alcohol	2.033	59	27609	1.071	ppbv		96
18) 1,1-Dichloroethene	2.026	96	10892	1.046	ppbv		94
19) Isopropyl Alcohol	1.877	45	12661	1.084	ppbv		86
20) Methylene Chloride	2.052	84	11906	1.119	ppbv	#	92
21) Allyl Chloride	2.088	41	15455	0.989	ppbv		96
22) trans-1,2-Dichloroethene	2.331	96	12411	1.050	ppbv		99
23) Vinyl Acetate	2.450	43	5498	1.062	ppbv	#	77
24) 1,1-Dichloroethane	2.399	63	23773	1.061	ppbv		97
25) Ethyl Acetate	2.823	43	63776	1.043	ppbv		100
26) Hexane	2.813	57	22126	0.940	ppbv		80
27) Carbon Disulfide	2.140	76	28818	1.037	ppbv	#	62
28) Methyl tert-Butyl Ether	2.428	73	15176	1.031	ppbv		99
29) Chloroform	2.832	83	41697	1.039	ppbv		99
30) Cyclohexane	3.839	84	18605	0.962	ppbv		97
31) cis-1,2-Dichloroethene	2.709	61	24206	1.001	ppbv		97
32) 1,1,1-Trichloroethane	3.350	97	38581	0.990	ppbv		95
34) 2-Butanone	2.544	43	35775	1.010	ppbv		100
35) Carbon Tetrachloride	3.742	117	41999	0.978	ppbv		94
36) Benzene	3.638	78	51343	1.029	ppbv		95
37) 1,2-Dichloroethane	3.201	62	30102	1.019	ppbv		99
38) Trichloroethene	4.519	130	22132	1.065	ppbv		90
39) 1,2-Dichloropropane	4.289	63	18915	1.023	ppbv		90
40) 1,4-Dioxane	4.564	88	7860m	0.990	ppbv		
41) Tetrahydrofuran	3.043	42	17630	0.963	ppbv		98
42) Bromodichloromethane	4.460	83	42012	1.007	ppbv		89
43) Methyl Methacrylate	4.849	69	14911	0.901	ppbv		95
44) 2,2,4-Trimethylpentane	4.609	57	77988	0.975	ppbv		96
45) t-1,3-Dichloropropene	6.380	75	13974	0.932	ppbv		92

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043034.D
Acq On : 02 Oct 2025 11:29
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:03:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.570	75	20141m	0.945	ppbv	
47) 1,1,2-Trichloroethane	6.548	97	21164	1.029	ppbv #	85
48) Dibromochloromethane	7.357	129	33636	1.002	ppbv	100
49) Bromoform	9.464	173	26918	0.960	ppbv	98
50) 4-Methyl-2-Pentanone	5.729	43	39803	0.922	ppbv	98
51) 2-Hexanone	7.415	43	26904	0.878	ppbv #	95
52) Tetrachloroethene	8.202	164	17908	0.964	ppbv	97
53) Toluene	6.904	91	45974	0.913	ppbv	98
54) 1,2-Dibromoethane	7.626	107	24648	1.011	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.904	131	26884	1.022	ppbv	95
57) Chlorobenzene	8.898	112	47296	1.036	ppbv	97
58) Ethyl Benzene	9.335	91	59544	0.890	ppbv	97
59) m/p-Xylene	9.532	91	106322m	1.884	ppbv	
60) o-Xylene	9.943	91	52489	0.934	ppbv	100
61) Styrene	9.849	104	19376	0.823	ppbv	97
62) Isopropylbenzene	10.523	105	82825	0.960	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.943	83	40981	1.012	ppbv	99
64) n-propylbenzene	10.972	120	21190	0.960	ppbv	96
65) tert-Butylbenzene	11.516	119	74677	0.973	ppbv	99
66) Benzyl Chloride	11.597	91	2866	0.963	ppbv	98
67) sec-Butylbenzene	11.752	105	106876	0.998	ppbv	100
69) p-Isopropyltoluene	11.911	119	81108	0.931	ppbv	99
70) n-Butylbenzene	12.267	91	76664	0.914	ppbv	97
71) 2-Chlorotoluene	10.885	91	58174	0.932	ppbv	100
72) 4-Ethyltoluene	11.108	105	61540	0.920	ppbv	98
73) 1,3,5-Trimethylbenzene	11.189	105	54851	0.948	ppbv	94
74) 1,2,4-Trimethylbenzene	11.519	105	64405	0.986	ppbv	98
75) 1,3-Dichlorobenzene	11.591	146	42580	1.003	ppbv	98
76) 1,4-Dichlorobenzene	11.655	146	40098	0.990	ppbv	100
77) 1,2-Dichlorobenzene	11.930	146	44771	1.058	ppbv	99
78) Hexachloro-1,3-Butadiene	13.866	225	30422	1.032	ppbv	99
79) Naphthalene	13.497	128	32191	0.831	ppbv	98
80) Naphthalene,2-methyl-	14.442	142	7210	0.923	ppbv	99
81) 1,2,4-Trichlorobenzene	13.426	180	20534	0.816	ppbv	100

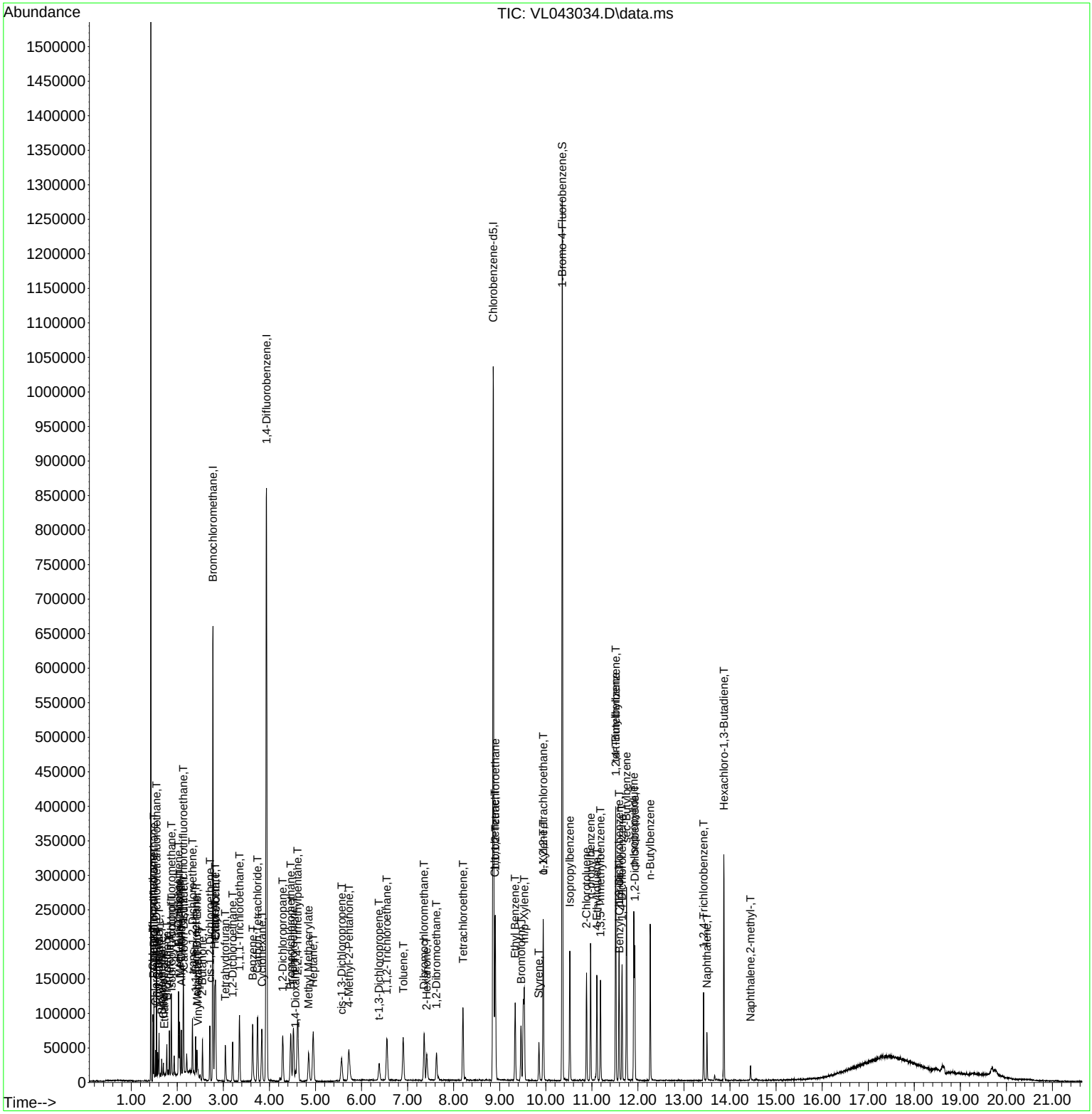
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043034.D
Acq On : 02 Oct 2025 11:29
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:03:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043036.D
Acq On : 02 Oct 2025 12:35
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:04:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.771	49	175730	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.936	114	510906	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.859	117	418551	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.358	95	289539	9.603	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.000%				
Target Compounds							Qvalue
5) Vinyl Chloride	1.573	62	1208	0.118	ppbv		96
32) 1,1,1-Trichloroethane	3.350	97	3686	0.094	ppbv		96
35) Carbon Tetrachloride	3.739	117	4230	0.101	ppbv	#	91
38) Trichloroethene	4.522	130	1971m	0.097	ppbv		
52) Tetrachloroethene	8.199	164	1674	0.092	ppbv	#	75
54) 1,2-Dibromoethane	7.626	107	2275m	0.095	ppbv		
63) 1,1,2,2-Tetrachloroethane	9.946	83	3701	0.094	ppbv		93
79) Naphthalene	13.500	128	1393	0.261	ppbv	#	94

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

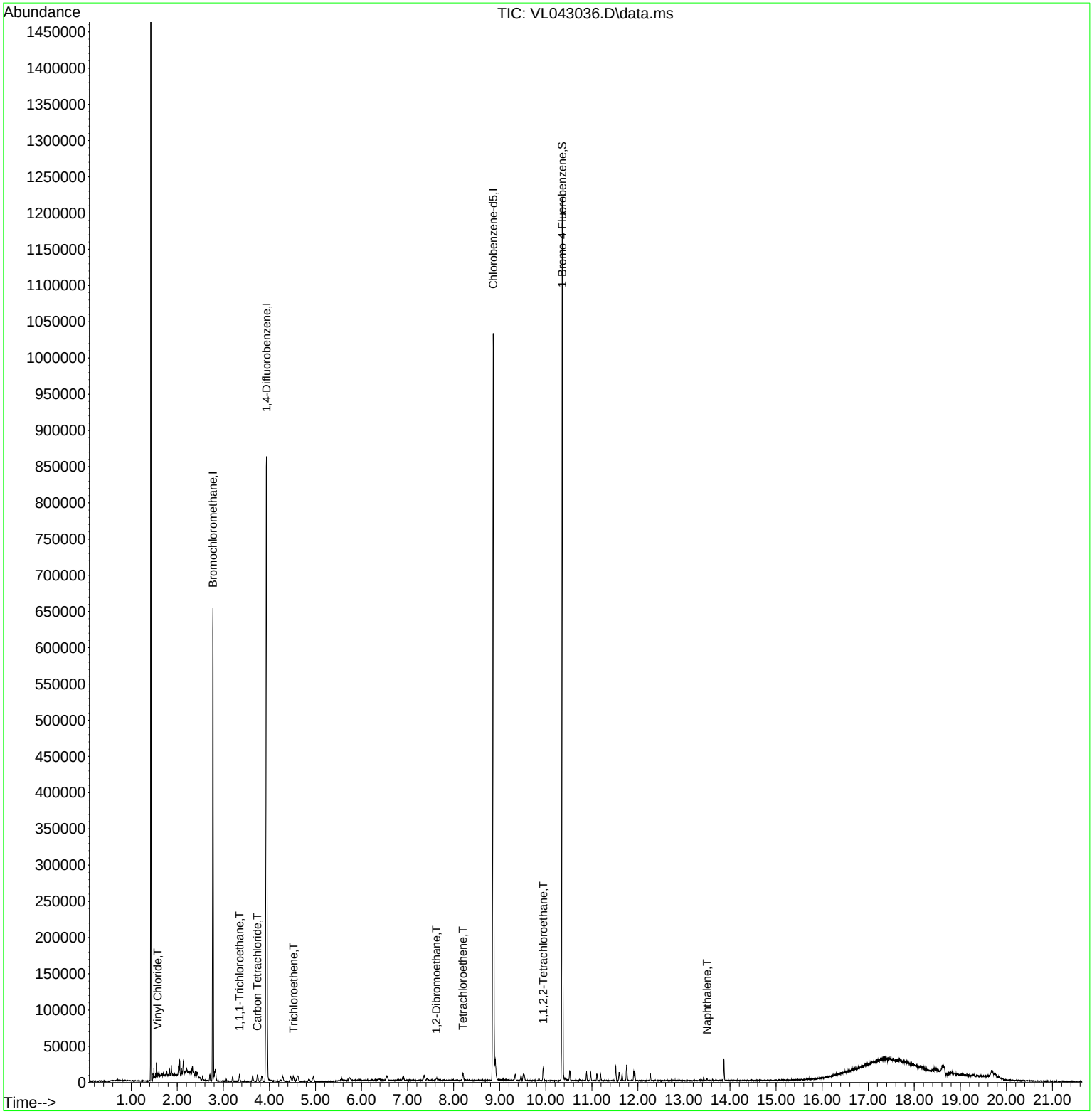
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043036.D
Acq On : 02 Oct 2025 12:35
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:04:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043037.D
Acq On : 02 Oct 2025 13:07
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:05:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.774	49	172214	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	493591	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	408184	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	280877	9.552	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.500%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.573	62	296	0.029	ppbv	# 78
32) 1,1,1-Trichloroethane	3.353	97	1314m	0.034	ppbv	
35) Carbon Tetrachloride	3.748	117	1490m	0.037	ppbv	
38) Trichloroethene	4.525	130	525m	0.027	ppbv	
52) Tetrachloroethene	8.205	164	628m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.947	83	1322	0.035	ppbv	96

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

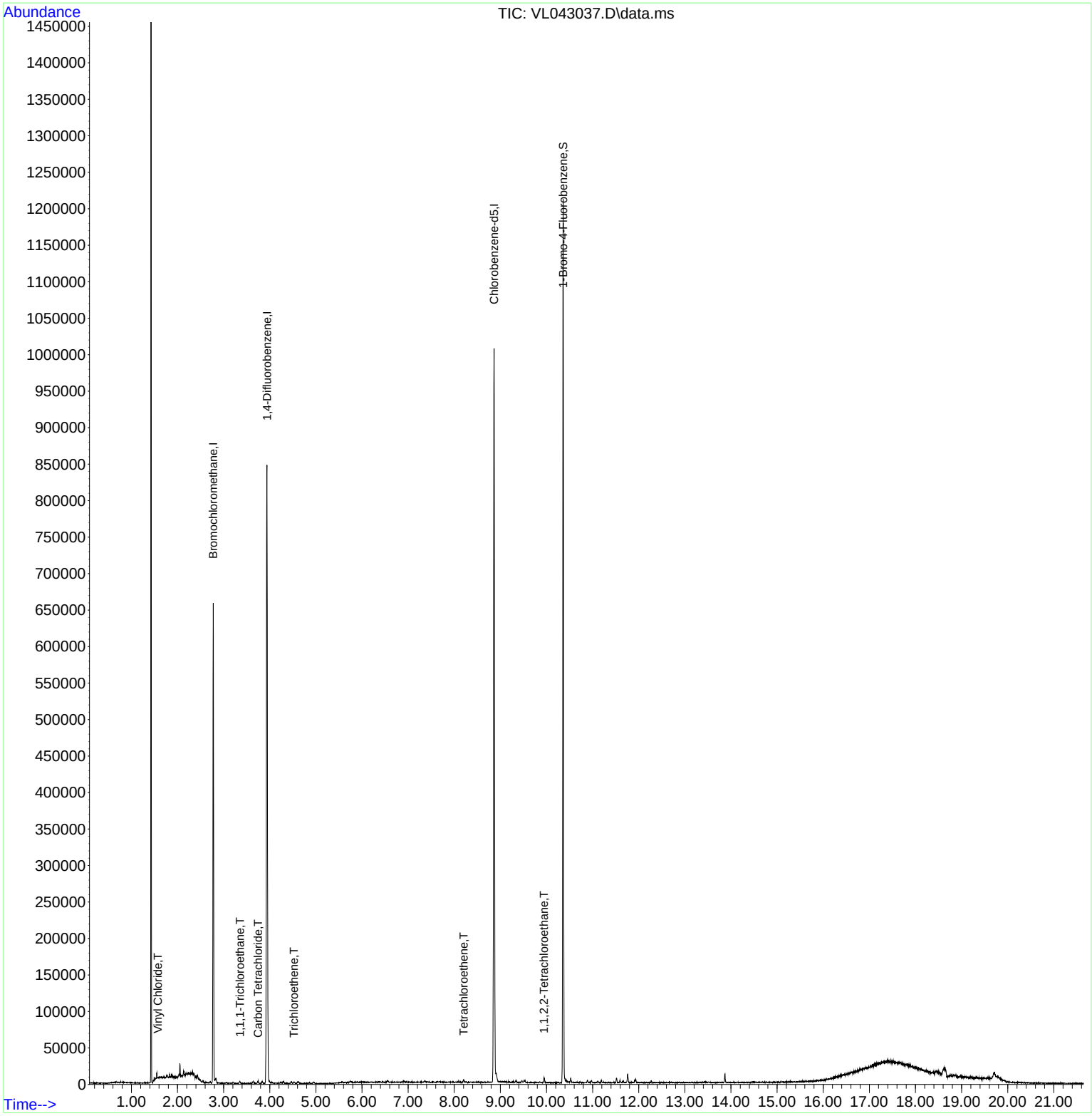
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043037.D
Acq On : 02 Oct 2025 13:07
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:05:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043038.D
Acq On : 02 Oct 2025 13:41
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:06:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.774	49	174781	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.939	114	521075	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.862	117	446323	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.361	95	331763	10.318	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	417041	14.157	ppbv		100
3) Chlorodifluoromethane	1.470	51	396783	13.924	ppbv		100
4) Chloromethane	1.528	50	152053	14.131	ppbv		100
5) Vinyl Chloride	1.573	62	143710	14.073	ppbv		98
6) Bromomethane	1.661	94	66123	14.410	ppbv		97
7) Chloroethane	1.700	64	58804	13.801	ppbv		97
8) Dichlorotetrafluoroethane	1.551	85	342721	14.198	ppbv		100
9) Propene	1.480	41	159689	13.898	ppbv		97
10) Heptane	4.956	43	465543	16.450	ppbv		99
11) Trichlorofluoromethane	1.871	101	430473	14.220	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.130	101	337263	14.145	ppbv		97
13) Ethanol	1.713	45	6726	14.884	ppbv		94
14) Bromoethene	1.774	108	123040	14.394	ppbv		99
15) Acetone	1.826	43	302724	12.370	ppbv		100
16) 1,3-Butadiene	1.603	39	142349	14.108	ppbv		99
17) tert-Butyl alcohol	2.030	59	352251	13.608	ppbv		100
18) 1,1-Dichloroethene	2.027	96	150012	14.353	ppbv		98
19) Isopropyl Alcohol	1.878	45	154373	13.166	ppbv		98
20) Methylene Chloride	2.053	84	130116	12.181	ppbv		96
21) Allyl Chloride	2.088	41	223371	14.247	ppbv		99
22) trans-1,2-Dichloroethene	2.331	96	169834	14.313	ppbv		96
23) Vinyl Acetate	2.454	43	60446	11.634	ppbv	#	96
24) 1,1-Dichloroethane	2.399	63	320234	14.237	ppbv		100
25) Ethyl Acetate	2.820	43	909988	14.822	ppbv		100
26) Hexane	2.813	57	370003	15.667	ppbv		98
27) Carbon Disulfide	2.143	76	404552	14.510	ppbv		99
28) Methyl tert-Butyl Ether	2.428	73	213111	14.420	ppbv		99
29) Chloroform	2.836	83	576414	14.316	ppbv		99
30) Cyclohexane	3.836	84	314603	16.212	ppbv		99
31) cis-1,2-Dichloroethene	2.710	61	363768	14.984	ppbv		99
32) 1,1,1-Trichloroethane	3.354	97	573214	14.648	ppbv		100
34) 2-Butanone	2.545	43	511000	14.453	ppbv		100
35) Carbon Tetrachloride	3.745	117	604277	14.095	ppbv		97
36) Benzene	3.638	78	748168	15.028	ppbv		98
37) 1,2-Dichloroethane	3.205	62	431043	14.619	ppbv		100
38) Trichloroethene	4.525	130	317772	15.319	ppbv		99
39) 1,2-Dichloropropane	4.289	63	269729	14.617	ppbv		98
40) 1,4-Dioxane	4.554	88	120237	15.173	ppbv	#	95
41) Tetrahydrofuran	3.036	42	295205	16.155	ppbv		100
42) Bromodichloromethane	4.464	83	619944	14.890	ppbv		96
43) Methyl Methacrylate	4.852	69	279674	16.923	ppbv		99
44) 2,2,4-Trimethylpentane	4.616	57	1251093	15.661	ppbv		99
45) t-1,3-Dichloropropene	6.386	75	251549	16.802	ppbv		97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043038.D
Acq On : 02 Oct 2025 13:41
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:06:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.571	75	351325	16.515	ppbv	100
47) 1,1,2-Trichloroethane	6.555	97	296142	14.428	ppbv	98
48) Dibromochloromethane	7.364	129	512219	15.290	ppbv	100
49) Bromoform	9.468	173	449641	16.072	ppbv	100
50) 4-Methyl-2-Pentanone	5.713	43	723710	16.786	ppbv	100
51) 2-Hexanone	7.409	43	562773	18.407	ppbv	100
52) Tetrachloroethene	8.205	164	270386	14.575	ppbv	98
53) Toluene	6.911	91	858713	17.085	ppbv	100
54) 1,2-Dibromoethane	7.629	107	378193	15.546	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.908	131	394995	14.519	ppbv	100
57) Chlorobenzene	8.904	112	670949	14.220	ppbv	99
58) Ethyl Benzene	9.338	91	1190670	17.220	ppbv	99
59) m/p-Xylene	9.536	91	1936045m	33.184	ppbv	
60) o-Xylene	9.947	91	969480	16.688	ppbv	99
61) Styrene	9.853	104	462847	19.017	ppbv	100
62) Isopropylbenzene	10.526	105	1455778	16.324	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.947	83	593157	14.167	ppbv	100
64) n-propylbenzene	10.976	120	387627	16.991	ppbv	95
65) tert-Butylbenzene	11.520	119	1283802	16.175	ppbv	99
66) Benzyl Chloride	11.604	91	50421	16.394	ppbv	99
67) sec-Butylbenzene	11.756	105	1758282	15.875	ppbv	98
69) p-Isopropyltoluene	11.915	119	1493674	16.578	ppbv	99
70) n-Butylbenzene	12.271	91	1480662	17.067	ppbv	98
71) 2-Chlorotoluene	10.889	91	1085558	16.819	ppbv	100
72) 4-Ethyltoluene	11.112	105	1190551	17.218	ppbv	99
73) 1,3,5-Trimethylbenzene	11.190	105	1001678	16.745	ppbv	100
74) 1,2,4-Trimethylbenzene	11.523	105	1091026	16.160	ppbv	95
75) 1,3-Dichlorobenzene	11.594	146	665205	15.149	ppbv	100
76) 1,4-Dichlorobenzene	11.659	146	656125	15.671	ppbv	99
77) 1,2-Dichlorobenzene	11.934	146	632662	14.465	ppbv	99
78) Hexachloro-1,3-Butadiene	13.870	225	435408	14.288	ppbv	100
79) Naphthalene	13.501	128	887779	14.984	ppbv	99
80) Naphthalene,2-methyl-	14.446	142	421038	15.372	ppbv	99
81) 1,2,4-Trichlorobenzene	13.429	180	489642	18.818	ppbv	99

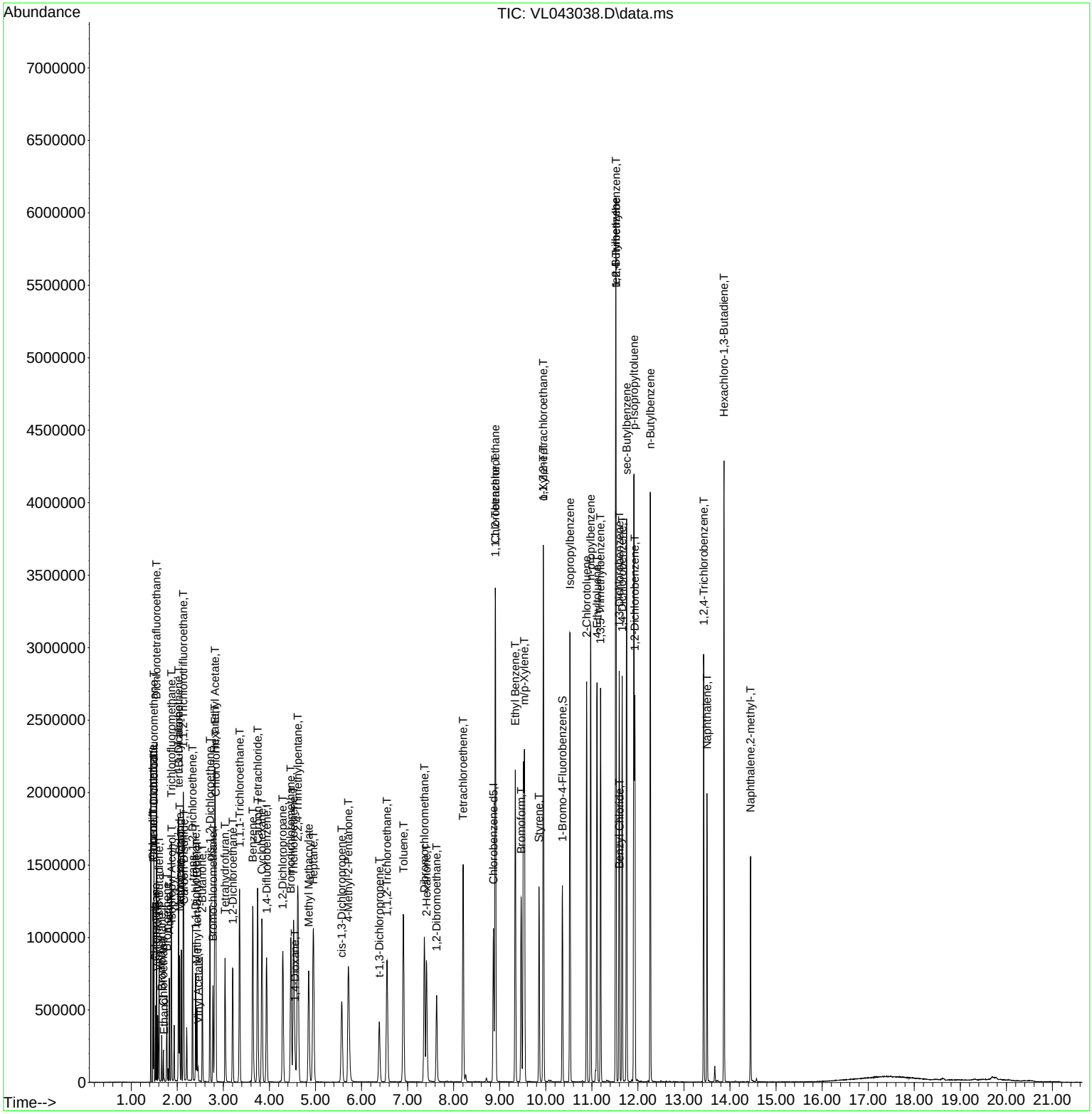
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043038.D
Acq On : 02 Oct 2025 13:41
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:06:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043039.D
Acq On : 02 Oct 2025 14:14
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:24:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Oct 03 08:22:04 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL100225

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.777	49	178544	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	537412	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.866	117	454012	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	333843	10.207	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	287085	9.540	ppbv	100
3) Chlorodifluoromethane	1.473	51	275618	9.468	ppbv	99
4) Chloromethane	1.528	50	104427	9.501	ppbv	98
5) Vinyl Chloride	1.577	62	98850	9.476	ppbv	97
6) Bromomethane	1.664	94	46326	9.883	ppbv	97
7) Chloroethane	1.700	64	40636	9.336	ppbv	98
8) Dichlorotetrafluoroethane	1.551	85	235901	9.567	ppbv	99
9) Propene	1.480	41	115956	9.879	ppbv	99
10) Heptane	4.956	43	311038	10.779	ppbv	100
11) Trichlorofluoromethane	1.871	101	291376	9.422	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.133	101	228314	9.374	ppbv	97
13) Ethanol	1.716	45	4643	9.646	ppbv	98
14) Bromoethene	1.777	108	85349	9.774	ppbv	99
15) Acetone	1.829	43	204381	8.176	ppbv	100
16) 1,3-Butadiene	1.606	39	95179	9.234	ppbv	99
17) tert-Butyl alcohol	2.033	59	249385	9.431	ppbv	99
18) 1,1-Dichloroethene	2.026	96	101929	9.547	ppbv	95
19) Isopropyl Alcohol	1.878	45	109403	9.134	ppbv	99
20) Methylene Chloride	2.056	84	89214	8.176	ppbv	97
21) Allyl Chloride	2.088	41	151234	9.443	ppbv	99
22) trans-1,2-Dichloroethene	2.331	96	115000	9.487	ppbv	97
23) Vinyl Acetate	2.454	43	45886	8.646	ppbv	97
24) 1,1-Dichloroethane	2.399	63	217319	9.458	ppbv	98
25) Ethyl Acetate	2.823	43	628433	10.021	ppbv	100
26) Hexane	2.816	57	253815	10.521	ppbv	98
27) Carbon Disulfide	2.143	76	273348	9.598	ppbv	99
28) Methyl tert-Butyl Ether	2.431	73	147450	9.767	ppbv	99
29) Chloroform	2.836	83	388247	9.439	ppbv	100
30) Cyclohexane	3.839	84	216007	10.896	ppbv	98
31) cis-1,2-Dichloroethene	2.709	61	249555	10.063	ppbv	97
32) 1,1,1-Trichloroethane	3.354	97	387043	9.682	ppbv	100
34) 2-Butanone	2.544	43	346463	9.501	ppbv	100
35) Carbon Tetrachloride	3.745	117	399311	9.031	ppbv	96
36) Benzene	3.642	78	514339	10.017	ppbv	98
37) 1,2-Dichloroethane	3.205	62	289339	9.515	ppbv	100
38) Trichloroethene	4.528	130	213727	9.992	ppbv	98
39) 1,2-Dichloropropane	4.292	63	183886	9.662	ppbv	97
40) 1,4-Dioxane	4.558	88	80249	9.831	ppbv #	98
41) Tetrahydrofuran	3.040	42	201471	10.690	ppbv	100
42) Bromodichloromethane	4.467	83	413457	9.629	ppbv	98
43) Methyl Methacrylate	4.855	69	189993	11.147	ppbv	99
44) 2,2,4-Trimethylpentane	4.619	57	847766	10.290	ppbv	99
45) t-1,3-Dichloropropene	6.389	75	164370	10.538	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043039.D
Acq On : 02 Oct 2025 14:14
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:24:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 08:22:04 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL100225

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.574	75	232895	10.597	ppbv	98
47) 1,1,2-Trichloroethane	6.558	97	196496	9.282	ppbv	97
48) Dibromochloromethane	7.367	129	336813	9.749	ppbv	99
49) Bromoform	9.468	173	275751	9.557	ppbv	100
50) 4-Methyl-2-Pentanone	5.720	43	484498	10.896	ppbv	100
51) 2-Hexanone	7.412	43	355624	11.236	ppbv	99
52) Tetrachloroethene	8.208	164	182062	9.576	ppbv	99
53) Toluene	6.911	91	572257	11.040	ppbv	100
54) 1,2-Dibromoethane	7.632	107	247276	9.855	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.908	131	259863	9.390	ppbv	99
57) Chlorobenzene	8.904	112	447850	9.331	ppbv	100
58) Ethyl Benzene	9.338	91	775232	11.022	ppbv	98
59) m/p-Xylene	9.535	91	1265386m	21.330	ppbv	
60) o-Xylene	9.950	91	628486	10.635	ppbv	99
61) Styrene	9.856	104	284955	11.510	ppbv	100
62) Isopropylbenzene	10.526	105	939236	10.353	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.950	83	360837	8.511	ppbv	99
64) n-propylbenzene	10.976	120	240769	10.375	ppbv	98
65) tert-Butylbenzene	11.520	119	814322	10.086	ppbv	100
66) Benzyl Chloride	11.604	91	26124	8.466	ppbv	99
67) sec-Butylbenzene	11.756	105	1122743	9.965	ppbv	99
69) p-Isopropyltoluene	11.914	119	937600	10.230	ppbv	100
70) n-Butylbenzene	12.270	91	913299	10.349	ppbv	100
71) 2-Chlorotoluene	10.888	91	673074	10.251	ppbv	100
72) 4-Ethyltoluene	11.112	105	744145	10.579	ppbv	100
73) 1,3,5-Trimethylbenzene	11.193	105	621377	10.212	ppbv	100
74) 1,2,4-Trimethylbenzene	11.526	105	684740	9.971	ppbv	93
75) 1,3-Dichlorobenzene	11.594	146	409217	9.161	ppbv	98
76) 1,4-Dichlorobenzene	11.659	146	398965	9.368	ppbv	100
77) 1,2-Dichlorobenzene	11.934	146	384233	8.636	ppbv	99
78) Hexachloro-1,3-Butadiene	13.869	225	289545	9.340	ppbv	99
79) Naphthalene	13.500	128	552627	9.523	ppbv	99
80) Naphthalene,2-methyl-	14.445	142	223063	8.323	ppbv	98
81) 1,2,4-Trichlorobenzene	13.429	180	317372	11.990	ppbv	100

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

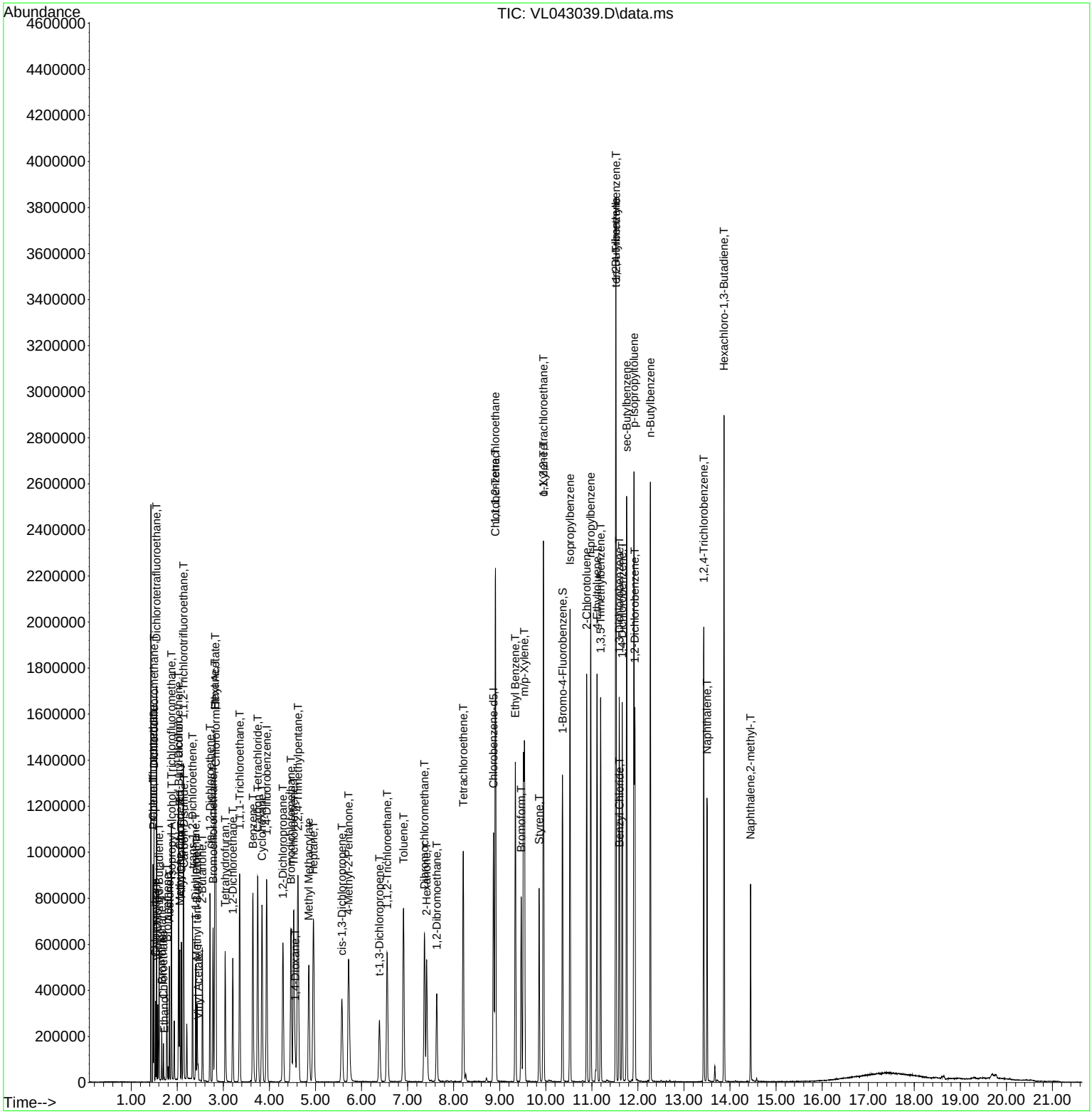
Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043039.D
Acq On : 02 Oct 2025 14:14
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 08:24:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 08:22:04 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL100225

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043039.D
Acq On : 02 Oct 2025 14:14
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL100225

Quant Time: Oct 03 08:24:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:22:04 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	1.685	1.608	4.6	103	0.00
3		Chlorodifluoromethane	1.630	1.544	5.3	103	0.00
4		Chloromethane	0.616	0.585	5.0	103	0.00
5	T	Vinyl Chloride	0.584	0.554	5.1	104	0.00
6	T	Bromomethane	0.263	0.259	1.5	106	0.00
7		Chloroethane	0.244	0.228	6.6	104	0.00
8	T	Dichlorotetrafluoroethane	1.381	1.321	4.3	103	0.00
9	T	Propene	0.657	0.649	1.2	104	0.00
10	T	Heptane	1.616	1.742	-7.8	101	0.00
11	T	Trichlorofluoromethane	1.732	1.632	5.8	102	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.364	1.279	6.2	101	0.00
13		Ethanol	0.045	0.026#	42.2#	97	0.00
14	T	Bromoethene	0.489	0.478	2.2	104	0.00
15	T	Acetone	1.400	1.145	18.2	102	0.00
16	T	1,3-Butadiene	0.577	0.533	7.6	101	0.00
17		tert-Butyl alcohol	1.481	1.397	5.7	103	0.00
18	T	1,1-Dichloroethene	0.598	0.571	4.5	101	0.00
19	T	Isopropyl Alcohol	0.671	0.613	8.6	103	0.00
20	T	Methylene Chloride	0.611	0.500	18.2	104	0.00
21	T	Allyl Chloride	0.897	0.847	5.6	102	0.00
22	T	trans-1,2-Dichloroethene	0.679	0.644	5.2	103	0.00
23	T	Vinyl Acetate	0.297	0.257	13.5	107	0.00
24	T	1,1-Dichloroethane	1.287	1.217	5.4	103	0.00
25	T	Ethyl Acetate	3.513	3.520	-0.2	102	0.00
26	T	Hexane	1.351	1.422	-5.3	103	0.00
27	T	Carbon Disulfide	1.595	1.531	4.0	102	0.00
28	T	Methyl tert-Butyl Ether	0.846	0.826	2.4	102	0.00
29	T	Chloroform	2.304	2.175	5.6	100	0.00
30	T	Cyclohexane	1.110	1.210	-9.0	103	0.00
31	T	cis-1,2-Dichloroethene	1.389	1.398	-0.6	101	0.00
32	T	1,1,1-Trichloroethane	2.239	2.168	3.2	102	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
34	T	2-Butanone	0.679	0.645	5.0	101	0.00
35	T	Carbon Tetrachloride	0.823	0.743	9.7	100	0.00
36	T	Benzene	0.955	0.957	-0.2	102	0.00
37	T	1,2-Dichloroethane	0.566	0.538	4.9	101	0.00
38	T	Trichloroethene	0.398	0.398	0.0	100	0.00
39	T	1,2-Dichloropropane	0.354	0.342	3.4	100	0.00
40	T	1,4-Dioxane	0.152	0.149	2.0	98	0.00
41	T	Tetrahydrofuran	0.351	0.375	-6.8	102	0.00
42	T	Bromodichloromethane	0.799	0.769	3.8	100	0.00
43		Methyl Methacrylate	0.317	0.354	-11.7	103	0.00
44	T	2,2,4-Trimethylpentane	1.533	1.577	-2.9	102	0.00
45	T	t-1,3-Dichloropropene	0.290	0.306	-5.5	100	0.00
46	T	cis-1,3-Dichloropropene	0.409	0.433	-5.9	101	0.00
47	T	1,1,2-Trichloroethane	0.394	0.366	7.1	100	0.00
48	T	Dibromochloromethane	0.643	0.627	2.5	97	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043039.D
Acq On : 02 Oct 2025 14:14
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL100225

Quant Time: Oct 03 08:24:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:22:04 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	0.537	0.513	4.5	94	0.00
50	T	4-Methyl-2-Pentanone	0.827	0.902	-9.1	102	0.00
51	T	2-Hexanone	0.589	0.662	-12.4	98	0.00
52	T	Tetrachloroethene	0.354	0.339	4.2	101	0.00
53	T	Toluene	0.965	1.065	-10.4	101	0.00
54	T	1,2-Dibromoethane	0.467	0.460	1.5	98	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
56		1,1,1,2-Tetrachloroethane	0.610	0.572	6.2	98	0.00
57	T	Chlorobenzene	1.057	0.986	6.7	98	0.00
58	T	Ethyl Benzene	1.549	1.708	-10.3	98	0.00
59	T	m/p-Xylene	1.307	1.394	-6.7	98	0.00
60	T	o-Xylene	1.302	1.384	-6.3	97	0.00
61	T	Styrene	0.545	0.628	-15.2	95	0.00
62		Isopropylbenzene	1.998	2.069	-3.6	98	0.00
63	T	1,1,2,2-Tetrachloroethane	0.934	0.795	14.9	92	0.00
64		n-propylbenzene	0.511	0.530	-3.7	96	0.00
65		tert-Butylbenzene	1.778	1.794	-0.9	94	0.00
66	T	Benzyl Chloride	0.068	0.058	14.7	85	0.00
67		sec-Butylbenzene	2.482	2.473	0.4	94	0.00
68	S	1-Bromo-4-Fluorobenzene	0.720	0.735	-2.1	101	0.00
69		p-Isopropyltoluene	2.019	2.065	-2.3	93	0.00
70		n-Butylbenzene	1.944	2.012	-3.5	92	0.00
71		2-Chlorotoluene	1.446	1.483	-2.6	95	0.00
72	T	4-Ethyltoluene	1.549	1.639	-5.8	95	0.00
73	T	1,3,5-Trimethylbenzene	1.340	1.369	-2.2	94	0.00
74	T	1,2,4-Trimethylbenzene	1.513	1.508	0.3	94	0.00
75	T	1,3-Dichlorobenzene	0.984	0.901	8.4	93	0.00
76	T	1,4-Dichlorobenzene	0.938	0.879	6.3	92	0.00
77	T	1,2-Dichlorobenzene	0.980	0.846	13.7	92	0.00
78	T	Hexachloro-1,3-Butadiene	0.683	0.638	6.6	100	0.00
79	T	Naphthalene	0.903	1.217	-34.8#	96	0.00
80	T	Naphthalene,2-methyl-	0.457	0.491	-7.4	88	0.00
81	T	1,2,4-Trichlorobenzene	0.583	0.699	-19.9	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043039.D
Acq On : 02 Oct 2025 14:14
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL100225

Quant Time: Oct 03 08:24:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:22:04 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	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	10.000	9.540	4.6	103	0.00
3		Chlorodifluoromethane	10.000	9.468	5.3	103	0.00
4		Chloromethane	10.000	9.501	5.0	103	0.00
5	T	Vinyl Chloride	10.000	9.476	5.2	104	0.00
6	T	Bromomethane	10.000	9.883	1.2	106	0.00
7		Chloroethane	10.000	9.336	6.6	104	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.567	4.3	103	0.00
9	T	Propene	10.000	9.879	1.2	104	0.00
10	T	Heptane	10.000	10.779	-7.8	101	0.00
11	T	Trichlorofluoromethane	10.000	9.422	5.8	102	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.374	6.3	101	0.00
13		Ethanol	10.000	9.646	3.5	97	0.00
14	T	Bromoethene	10.000	9.774	2.3	104	0.00
15	T	Acetone	10.000	8.176	18.2	102	0.00
16	T	1,3-Butadiene	10.000	9.234	7.7	101	0.00
17		tert-Butyl alcohol	10.000	9.431	5.7	103	0.00
18	T	1,1-Dichloroethene	10.000	9.547	4.5	101	0.00
19	T	Isopropyl Alcohol	10.000	9.134	8.7	103	0.00
20	T	Methylene Chloride	10.000	8.176	18.2	104	0.00
21	T	Allyl Chloride	10.000	9.443	5.6	102	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.487	5.1	103	0.00
23	T	Vinyl Acetate	10.000	8.646	13.5	107	0.00
24	T	1,1-Dichloroethane	10.000	9.458	5.4	103	0.00
25	T	Ethyl Acetate	10.000	10.021	-0.2	102	0.00
26	T	Hexane	10.000	10.521	-5.2	103	0.00
27	T	Carbon Disulfide	10.000	9.598	4.0	102	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.767	2.3	102	0.00
29	T	Chloroform	10.000	9.439	5.6	100	0.00
30	T	Cyclohexane	10.000	10.896	-9.0	103	0.00
31	T	cis-1,2-Dichloroethene	10.000	10.063	-0.6	101	0.00
32	T	1,1,1-Trichloroethane	10.000	9.682	3.2	102	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	103	0.00
34	T	2-Butanone	10.000	9.501	5.0	101	0.00
35	T	Carbon Tetrachloride	10.000	9.031	9.7	100	0.00
36	T	Benzene	10.000	10.017	-0.2	102	0.00
37	T	1,2-Dichloroethane	10.000	9.515	4.8	101	0.00
38	T	Trichloroethene	10.000	9.992	0.1	100	0.00
39	T	1,2-Dichloropropane	10.000	9.662	3.4	100	0.00
40	T	1,4-Dioxane	10.000	9.831	1.7	98	0.00
41	T	Tetrahydrofuran	10.000	10.690	-6.9	102	0.00
42	T	Bromodichloromethane	10.000	9.629	3.7	100	0.00
43		Methyl Methacrylate	10.000	11.147	-11.5	103	0.00
44	T	2,2,4-Trimethylpentane	10.000	10.290	-2.9	102	0.00
45	T	t-1,3-Dichloropropene	10.000	10.538	-5.4	100	0.00
46	T	cis-1,3-Dichloropropene	10.000	10.597	-6.0	101	0.00
47	T	1,1,2-Trichloroethane	10.000	9.282	7.2	100	0.00
48	T	Dibromochloromethane	10.000	9.749	2.5	97	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043039.D
Acq On : 02 Oct 2025 14:14
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL100225

Quant Time: Oct 03 08:24:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:22:04 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	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Bromoform	10.000	9.557	4.4	94	0.00
50	T	4-Methyl-2-Pentanone	10.000	10.896	-9.0	102	0.00
51	T	2-Hexanone	10.000	11.236	-12.4	98	0.00
52	T	Tetrachloroethene	10.000	9.576	4.2	101	0.00
53	T	Toluene	10.000	11.040	-10.4	101	0.00
54	T	1,2-Dibromoethane	10.000	9.855	1.4	98	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	101	0.00
56		1,1,1,2-Tetrachloroethane	10.000	9.390	6.1	98	0.00
57	T	Chlorobenzene	10.000	9.331	6.7	98	0.00
58	T	Ethyl Benzene	10.000	11.022	-10.2	98	0.00
59	T	m/p-Xylene	20.000	21.330	-6.6	98	0.00
60	T	o-Xylene	10.000	10.635	-6.3	97	0.00
61	T	Styrene	10.000	11.510	-15.1	95	0.00
62		Isopropylbenzene	10.000	10.353	-3.5	98	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	8.511	14.9	92	0.00
64		n-propylbenzene	10.000	10.375	-3.8	96	0.00
65		tert-Butylbenzene	10.000	10.086	-0.9	94	0.00
66	T	Benzyl Chloride	10.000	8.466	15.3	85	0.00
67		sec-Butylbenzene	10.000	9.965	0.4	94	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.207	-2.1	101	0.00
69		p-Isopropyltoluene	10.000	10.230	-2.3	93	0.00
70		n-Butylbenzene	10.000	10.349	-3.5	92	0.00
71		2-Chlorotoluene	10.000	10.251	-2.5	95	0.00
72	T	4-Ethyltoluene	10.000	10.579	-5.8	95	0.00
73	T	1,3,5-Trimethylbenzene	10.000	10.212	-2.1	94	0.00
74	T	1,2,4-Trimethylbenzene	10.000	9.971	0.3	94	0.00
75	T	1,3-Dichlorobenzene	10.000	9.161	8.4	93	0.00
76	T	1,4-Dichlorobenzene	10.000	9.368	6.3	92	0.00
77	T	1,2-Dichlorobenzene	10.000	8.636	13.6	92	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	9.340	6.6	100	0.00
79	T	Naphthalene	10.000	9.523	4.8	96	0.00
80	T	Naphthalene,2-methyl-	10.000	8.323	16.8	88	0.00
81	T	1,2,4-Trichlorobenzene	10.000	11.990	-19.9	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

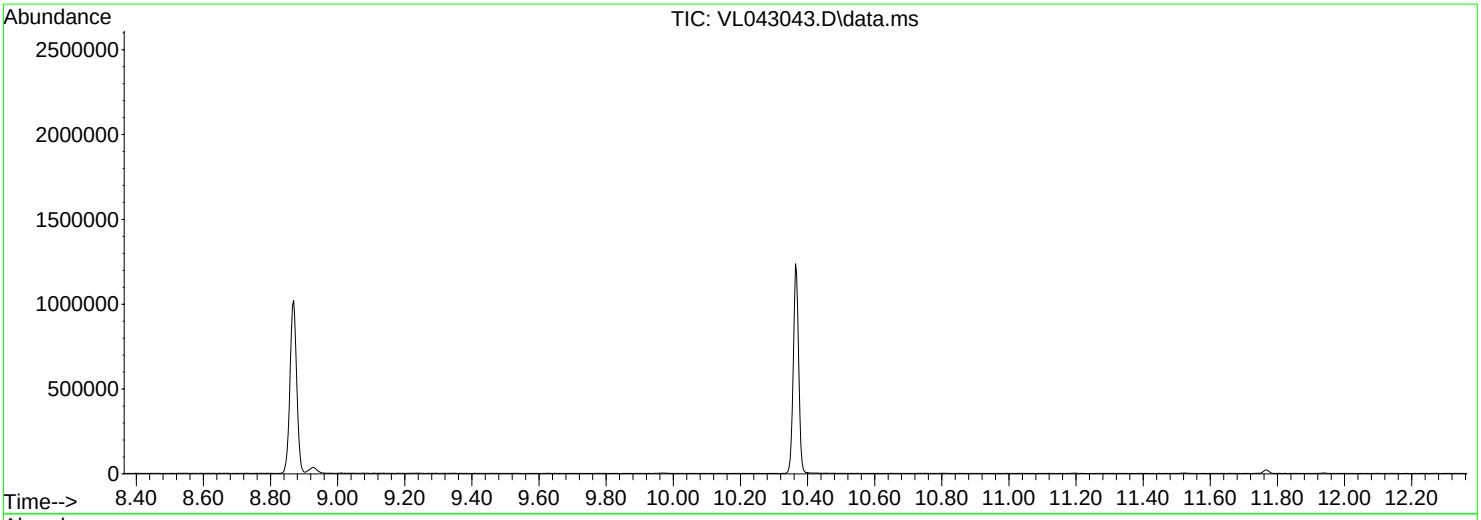
BFB

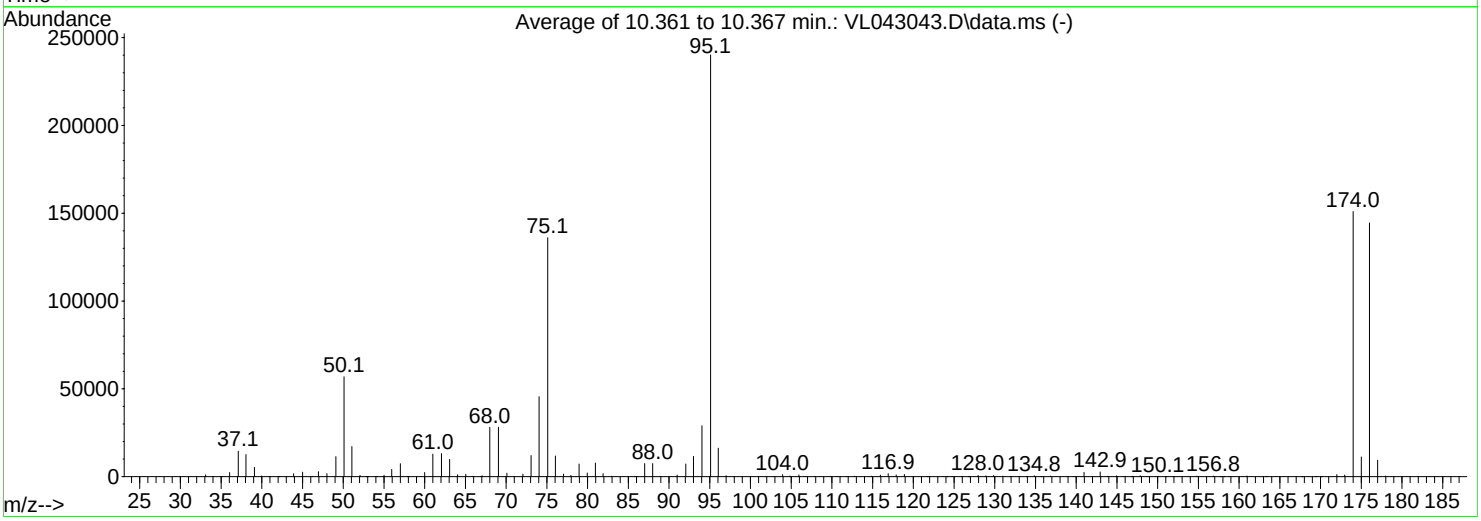
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043043.D
Acq On : 06 Oct 2025 07:57
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Oct 03 08:23:34 2025





AutoFind: Scans 3174, 3175, 3176; Background Corrected with Scan 3159

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.7	56904	PASS
75	95	30	66	56.6	136077	PASS
95	95	100	100	100.0	240213	PASS
96	95	5	9	6.7	16210	PASS
173	174	0.00	2	0.6	956	PASS
174	95	50	120	62.9	150976	PASS
175	174	4	9	7.4	11194	PASS
176	174	93	101	95.7	144528	PASS
177	176	5	9	6.5	9360	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043044.D
Acq On : 06 Oct 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/08/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.780	49	181342	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	515782	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	434070	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	324488	10.377	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	287157	9.395	ppbv	99
3) Chlorodifluoromethane	1.476	51	281863	9.533	ppbv	99
4) Chloromethane	1.531	50	107064	9.590	ppbv	98
5) Vinyl Chloride	1.580	62	97626	9.214	ppbv	96
6) Bromomethane	1.667	94	45638	9.586	ppbv	95
7) Chloroethane	1.703	64	40916	9.255	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	235363	9.398	ppbv	99
9) Propene	1.483	41	108909	9.135	ppbv	99
10) Heptane	4.968	43	319007	10.884	ppbv	100
11) Trichlorofluoromethane	1.874	101	292298	9.306	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	228489	9.236	ppbv	99
13) Ethanol	1.719	45	4994	10.290	ppbv	97
14) Bromoethene	1.780	108	83347	9.398	ppbv	98
15) Acetone	1.832	43	211361	8.324	ppbv	99
16) 1,3-Butadiene	1.609	39	98478	9.407	ppbv	98
17) tert-Butyl alcohol	2.036	59	252229	9.391	ppbv	100
18) 1,1-Dichloroethene	2.033	96	100506	9.268	ppbv	96
19) Isopropyl Alcohol	1.884	45	113044	9.292	ppbv	99
20) Methylene Chloride	2.059	84	89172	8.046	ppbv	97
21) Allyl Chloride	2.094	41	154207	9.480	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	112836	9.165	ppbv	98
23) Vinyl Acetate	2.457	43	48730	9.040	ppbv	98
24) 1,1-Dichloroethane	2.405	63	217854	9.335	ppbv	99
25) Ethyl Acetate	2.829	43	638620	10.026	ppbv	100
26) Hexane	2.819	57	250238	10.213	ppbv	98
27) Carbon Disulfide	2.146	76	277548	9.595	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	145380	9.481	ppbv	100
29) Chloroform	2.842	83	394464	9.442	ppbv	99
30) Cyclohexane	3.849	84	208637	10.362	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	244012	9.688	ppbv	99
32) 1,1,1-Trichloroethane	3.360	97	384289	9.465	ppbv	99
34) 2-Butanone	2.551	43	347993	9.944	ppbv	99
35) Carbon Tetrachloride	3.755	117	408168	9.619	ppbv	97
36) Benzene	3.648	78	502165	10.190	ppbv	98
37) 1,2-Dichloroethane	3.211	62	293779	10.066	ppbv	99
38) Trichloroethene	4.535	130	210056	10.233	ppbv	99
39) 1,2-Dichloropropane	4.302	63	183913	10.069	ppbv	99
40) 1,4-Dioxane	4.567	88	82396	10.517	ppbv #	95
41) Tetrahydrofuran	3.046	42	198764	10.989	ppbv	99
42) Bromodichloromethane	4.480	83	420134	10.194	ppbv	97
43) Methyl Methacrylate	4.865	69	181458	11.093	ppbv	98
44) 2,2,4-Trimethylpentane	4.629	57	857112	10.839	ppbv	99
45) t-1,3-Dichloropropene	6.402	75	158655	10.598	ppbv	96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043044.D
Acq On : 06 Oct 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/08/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	224260	10.632	ppbv		100
47) 1,1,2-Trichloroethane	6.571	97	201486	9.917	ppbv		99
48) Dibromochloromethane	7.376	129	343727	10.366	ppbv		99
49) Bromoform	9.474	173	294450	10.633	ppbv		99
50) 4-Methyl-2-Pentanone	5.732	43	485069	11.366	ppbv		99
51) 2-Hexanone	7.422	43	362864	11.945	ppbv	#	99
52) Tetrachloroethene	8.218	164	178049	9.758	ppbv		94
53) Toluene	6.920	91	558213	11.220	ppbv		100
54) 1,2-Dibromoethane	7.642	107	251743	10.454	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.917	131	266983	10.090	ppbv		99
57) Chlorobenzene	8.914	112	457632	9.973	ppbv		98
58) Ethyl Benzene	9.348	91	773986	11.509	ppbv		100
59) m/p-Xylene	9.545	91	1291856m	22.776	ppbv		
60) o-Xylene	9.956	91	650260	11.509	ppbv		98
61) Styrene	9.865	104	285984	12.082	ppbv		99
62) Isopropylbenzene	10.532	105	966428	11.142	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.956	83	409295	10.098	ppbv		100
64) n-propylbenzene	10.982	120	256334	11.553	ppbv		99
65) tert-Butylbenzene	11.526	119	880541	11.407	ppbv		99
66) Benzyl Chloride	11.610	91	33291	11.284	ppbv		99
67) sec-Butylbenzene	11.762	105	1214749	11.277	ppbv		100
69) p-Isopropyltoluene	11.921	119	1022374	11.667	ppbv		100
70) n-Butylbenzene	12.277	91	1013351	12.010	ppbv		100
71) 2-Chlorotoluene	10.895	91	715947	11.405	ppbv		99
72) 4-Ethyltoluene	11.118	105	797033	11.852	ppbv		100
73) 1,3,5-Trimethylbenzene	11.199	105	666778	11.461	ppbv		100
74) 1,2,4-Trimethylbenzene	11.529	105	751232	11.441	ppbv		93
75) 1,3-Dichlorobenzene	11.600	146	448438	10.501	ppbv		100
76) 1,4-Dichlorobenzene	11.665	146	445649	10.944	ppbv		100
77) 1,2-Dichlorobenzene	11.940	146	430137	10.112	ppbv		100
78) Hexachloro-1,3-Butadiene	13.876	225	285716	9.640	ppbv		100
79) Naphthalene	13.507	128	563992	10.118	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	228905	8.885	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	304505	12.033	ppbv		99

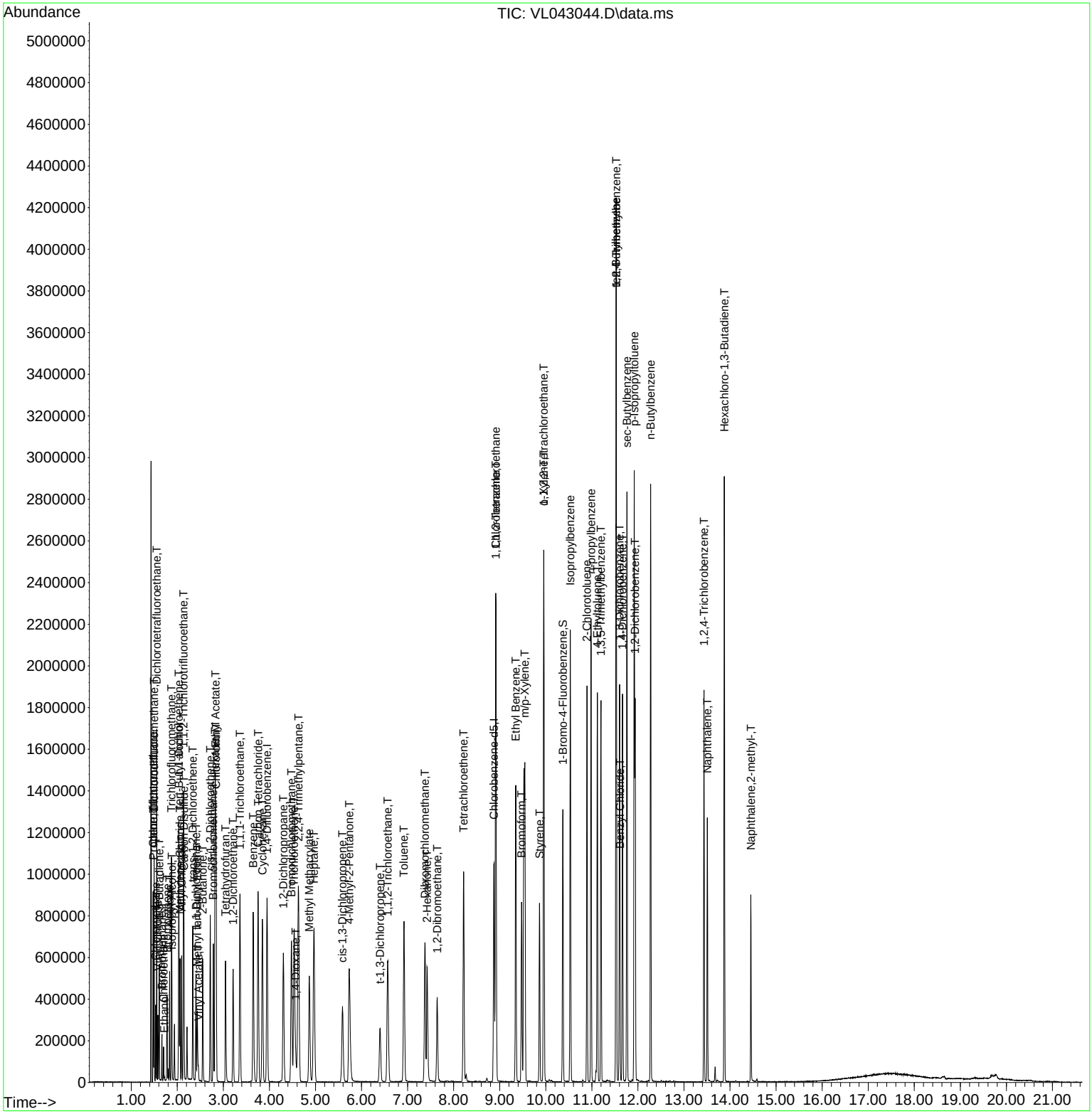
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043044.D
Acq On : 06 Oct 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/08/2025
Supervised By :Mahesh Dadoda 10/10/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043044.D
Acq On : 06 Oct 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Oct 07 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	1.685	1.584	6.0	103	0.00
3		Chlorodifluoromethane	1.630	1.554	4.7	105	0.00
4		Chloromethane	0.616	0.590	4.2	106	0.00
5	T	Vinyl Chloride	0.584	0.538	7.9	103	0.00
6	T	Bromomethane	0.263	0.252	4.2	105	0.00
7		Chloroethane	0.244	0.226	7.4	105	0.00
8	T	Dichlorotetrafluoroethane	1.381	1.298	6.0	103	0.00
9	T	Propene	0.657	0.601	8.5	98	0.00
10	T	Heptane	1.616	1.759	-8.8	103	0.01
11	T	Trichlorofluoromethane	1.732	1.612	6.9	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.364	1.260	7.6	101	0.00
13		Ethanol	0.045	0.028#	37.8#	104	0.00
14	T	Bromoethene	0.489	0.460	5.9	101	0.00
15	T	Acetone	1.400	1.166	16.7	105	0.00
16	T	1,3-Butadiene	0.577	0.543	5.9	104	0.00
17		tert-Butyl alcohol	1.481	1.391	6.1	104	0.00
18	T	1,1-Dichloroethene	0.598	0.554	7.4	99	0.00
19	T	Isopropyl Alcohol	0.671	0.623	7.2	107	0.00
20	T	Methylene Chloride	0.611	0.492	19.5	104	0.00
21	T	Allyl Chloride	0.897	0.850	5.2	104	0.00
22	T	trans-1,2-Dichloroethene	0.679	0.622	8.4	101	0.00
23	T	Vinyl Acetate	0.297	0.269	9.4	114	0.00
24	T	1,1-Dichloroethane	1.287	1.201	6.7	103	0.00
25	T	Ethyl Acetate	3.513	3.522	-0.3	103	0.00
26	T	Hexane	1.351	1.380	-2.1	102	0.00
27	T	Carbon Disulfide	1.595	1.531	4.0	104	0.00
28	T	Methyl tert-Butyl Ether	0.846	0.802	5.2	101	0.00
29	T	Chloroform	2.304	2.175	5.6	102	0.00
30	T	Cyclohexane	1.110	1.151	-3.7	100	0.00
31	T	cis-1,2-Dichloroethene	1.389	1.346	3.1	99	0.00
32	T	1,1,1-Trichloroethane	2.239	2.119	5.4	101	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
34	T	2-Butanone	0.679	0.675	0.6	102	0.00
35	T	Carbon Tetrachloride	0.823	0.791	3.9	102	0.00
36	T	Benzene	0.955	0.974	-2.0	100	0.00
37	T	1,2-Dichloroethane	0.566	0.570	-0.7	103	0.00
38	T	Trichloroethene	0.398	0.407	-2.3	98	0.00
39	T	1,2-Dichloropropane	0.354	0.357	-0.8	101	0.00
40	T	1,4-Dioxane	0.152	0.160	-5.3	100	0.01
41	T	Tetrahydrofuran	0.351	0.385	-9.7	101	0.00
42	T	Bromodichloromethane	0.799	0.815	-2.0	102	0.01
43		Methyl Methacrylate	0.317	0.352	-11.0	98	0.01
44	T	2,2,4-Trimethylpentane	1.533	1.662	-8.4	103	0.01
45	T	t-1,3-Dichloropropene	0.290	0.308	-6.2	96	0.02
46	T	cis-1,3-Dichloropropene	0.409	0.435	-6.4	97	0.01
47	T	1,1,2-Trichloroethane	0.394	0.391	0.8	102	0.02
48	T	Dibromochloromethane	0.643	0.666	-3.6	99	0.01

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043044.D
Acq On : 06 Oct 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: Oct 07 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 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	0.537	0.571	-6.3	100	0.00
50	T	4-Methyl-2-Pentanone	0.827	0.940	-13.7	102	0.02
51	T	2-Hexanone	0.589	0.704	-19.5	100	0.00
52	T	Tetrachloroethene	0.354	0.345	2.5	99	0.01
53	T	Toluene	0.965	1.082	-12.1	98	0.01
54	T	1,2-Dibromoethane	0.467	0.488	-4.5	100	0.01
55	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.01
56		1,1,1,2-Tetrachloroethane	0.610	0.615	-0.8	101	0.00
57	T	Chlorobenzene	1.057	1.054	0.3	101	0.00
58	T	Ethyl Benzene	1.549	1.783	-15.1	98	0.00
59	T	m/p-Xylene	1.307	1.488	-13.8	100	0.01
60	T	o-Xylene	1.302	1.498	-15.1	101	0.00
61	T	Styrene	0.545	0.659	-20.9	96	0.01
62		Isopropylbenzene	1.998	2.226	-11.4	101	0.00
63	T	1,1,2,2-Tetrachloroethane	0.934	0.943	-1.0	105	0.00
64		n-propylbenzene	0.511	0.591	-15.7	102	0.00
65		tert-Butylbenzene	1.778	2.029	-14.1	102	0.00
66	T	Benzyl Chloride	0.068	0.077	-13.2	108	0.00
67		sec-Butylbenzene	2.482	2.799	-12.8	102	0.00
68	S	1-Bromo-4-Fluorobenzene	0.720	0.748	-3.9	98	0.00
69		p-Isopropyltoluene	2.019	2.355	-16.6	101	0.00
70		n-Butylbenzene	1.944	2.335	-20.1	102	0.00
71		2-Chlorotoluene	1.446	1.649	-14.0	101	0.00
72	T	4-Ethyltoluene	1.549	1.836	-18.5	102	0.00
73	T	1,3,5-Trimethylbenzene	1.340	1.536	-14.6	101	0.00
74	T	1,2,4-Trimethylbenzene	1.513	1.731	-14.4	103	0.00
75	T	1,3-Dichlorobenzene	0.984	1.033	-5.0	102	0.00
76	T	1,4-Dichlorobenzene	0.938	1.027	-9.5	103	0.00
77	T	1,2-Dichlorobenzene	0.980	0.991	-1.1	103	0.00
78	T	Hexachloro-1,3-Butadiene	0.683	0.658	3.7	99	0.00
79	T	Naphthalene	0.903	1.299	-43.9#	98	0.00
80	T	Naphthalene,2-methyl-	0.457	0.527	-15.3	90	0.00
81	T	1,2,4-Trichlorobenzene	0.583	0.702	-20.4	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043044.D
Acq On : 06 Oct 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Oct 07 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 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	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	10.000	9.395	6.1	103	0.00
3		Chlorodifluoromethane	10.000	9.533	4.7	105	0.00
4		Chloromethane	10.000	9.590	4.1	106	0.00
5	T	Vinyl Chloride	10.000	9.214	7.9	103	0.00
6	T	Bromomethane	10.000	9.586	4.1	105	0.00
7		Chloroethane	10.000	9.255	7.4	105	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.398	6.0	103	0.00
9	T	Propene	10.000	9.135	8.7	98	0.00
10	T	Heptane	10.000	10.884	-8.8	103	0.01
11	T	Trichlorofluoromethane	10.000	9.306	6.9	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.236	7.6	101	0.00
13		Ethanol	10.000	10.290	-2.9	104	0.00
14	T	Bromoethene	10.000	9.398	6.0	101	0.00
15	T	Acetone	10.000	8.324	16.8	105	0.00
16	T	1,3-Butadiene	10.000	9.407	5.9	104	0.00
17		tert-Butyl alcohol	10.000	9.391	6.1	104	0.00
18	T	1,1-Dichloroethene	10.000	9.268	7.3	99	0.00
19	T	Isopropyl Alcohol	10.000	9.292	7.1	107	0.00
20	T	Methylene Chloride	10.000	8.046	19.5	104	0.00
21	T	Allyl Chloride	10.000	9.480	5.2	104	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.165	8.4	101	0.00
23	T	Vinyl Acetate	10.000	9.040	9.6	114	0.00
24	T	1,1-Dichloroethane	10.000	9.335	6.6	103	0.00
25	T	Ethyl Acetate	10.000	10.026	-0.3	103	0.00
26	T	Hexane	10.000	10.213	-2.1	102	0.00
27	T	Carbon Disulfide	10.000	9.595	4.0	104	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.481	5.2	101	0.00
29	T	Chloroform	10.000	9.442	5.6	102	0.00
30	T	Cyclohexane	10.000	10.362	-3.6	100	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.688	3.1	99	0.00
32	T	1,1,1-Trichloroethane	10.000	9.465	5.4	101	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	99	0.00
34	T	2-Butanone	10.000	9.944	0.6	102	0.00
35	T	Carbon Tetrachloride	10.000	9.619	3.8	102	0.00
36	T	Benzene	10.000	10.190	-1.9	100	0.00
37	T	1,2-Dichloroethane	10.000	10.066	-0.7	103	0.00
38	T	Trichloroethene	10.000	10.233	-2.3	98	0.00
39	T	1,2-Dichloropropane	10.000	10.069	-0.7	101	0.00
40	T	1,4-Dioxane	10.000	10.517	-5.2	100	0.01
41	T	Tetrahydrofuran	10.000	10.989	-9.9	101	0.00
42	T	Bromodichloromethane	10.000	10.194	-1.9	102	0.01
43		Methyl Methacrylate	10.000	11.093	-10.9	98	0.01
44	T	2,2,4-Trimethylpentane	10.000	10.839	-8.4	103	0.01
45	T	t-1,3-Dichloropropene	10.000	10.598	-6.0	96	0.02
46	T	cis-1,3-Dichloropropene	10.000	10.632	-6.3	97	0.01
47	T	1,1,2-Trichloroethane	10.000	9.917	0.8	102	0.02
48	T	Dibromochloromethane	10.000	10.366	-3.7	99	0.01

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043044.D
Acq On : 06 Oct 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Oct 07 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 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	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Bromoform	10.000	10.633	-6.3	100	0.00
50	T	4-Methyl-2-Pentanone	10.000	11.366	-13.7	102	0.02
51	T	2-Hexanone	10.000	11.945	-19.5	100	0.00
52	T	Tetrachloroethene	10.000	9.758	2.4	99	0.01
53	T	Toluene	10.000	11.220	-12.2	98	0.01
54	T	1,2-Dibromoethane	10.000	10.454	-4.5	100	0.01
55	I	Chlorobenzene-d5	10.000	10.000	0.0	97	0.01
56		1,1,1,2-Tetrachloroethane	10.000	10.090	-0.9	101	0.00
57	T	Chlorobenzene	10.000	9.973	0.3	101	0.00
58	T	Ethyl Benzene	10.000	11.509	-15.1	98	0.00
59	T	m/p-Xylene	20.000	22.776	-13.9	100	0.01
60	T	o-Xylene	10.000	11.509	-15.1	101	0.00
61	T	Styrene	10.000	12.082	-20.8	96	0.01
62		Isopropylbenzene	10.000	11.142	-11.4	101	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	10.098	-1.0	105	0.00
64		n-propylbenzene	10.000	11.553	-15.5	102	0.00
65		tert-Butylbenzene	10.000	11.407	-14.1	102	0.00
66	T	Benzyl Chloride	10.000	11.284	-12.8	108	0.00
67		sec-Butylbenzene	10.000	11.277	-12.8	102	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.377	-3.8	98	0.00
69		p-Isopropyltoluene	10.000	11.667	-16.7	101	0.00
70		n-Butylbenzene	10.000	12.010	-20.1	102	0.00
71		2-Chlorotoluene	10.000	11.405	-14.0	101	0.00
72	T	4-Ethyltoluene	10.000	11.852	-18.5	102	0.00
73	T	1,3,5-Trimethylbenzene	10.000	11.461	-14.6	101	0.00
74	T	1,2,4-Trimethylbenzene	10.000	11.441	-14.4	103	0.00
75	T	1,3-Dichlorobenzene	10.000	10.501	-5.0	102	0.00
76	T	1,4-Dichlorobenzene	10.000	10.944	-9.4	103	0.00
77	T	1,2-Dichlorobenzene	10.000	10.112	-1.1	103	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	9.640	3.6	99	0.00
79	T	Naphthalene	10.000	10.118	-1.2	98	0.00
80	T	Naphthalene,2-methyl-	10.000	8.885	11.2	90	0.00
81	T	1,2,4-Trichlorobenzene	10.000	12.033	-20.3	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043045.D
Acq On : 06 Oct 2025 09:19
Operator : SY/MD
Sample : VL1006ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1006ABL01

Quant Time: Oct 07 01:32:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

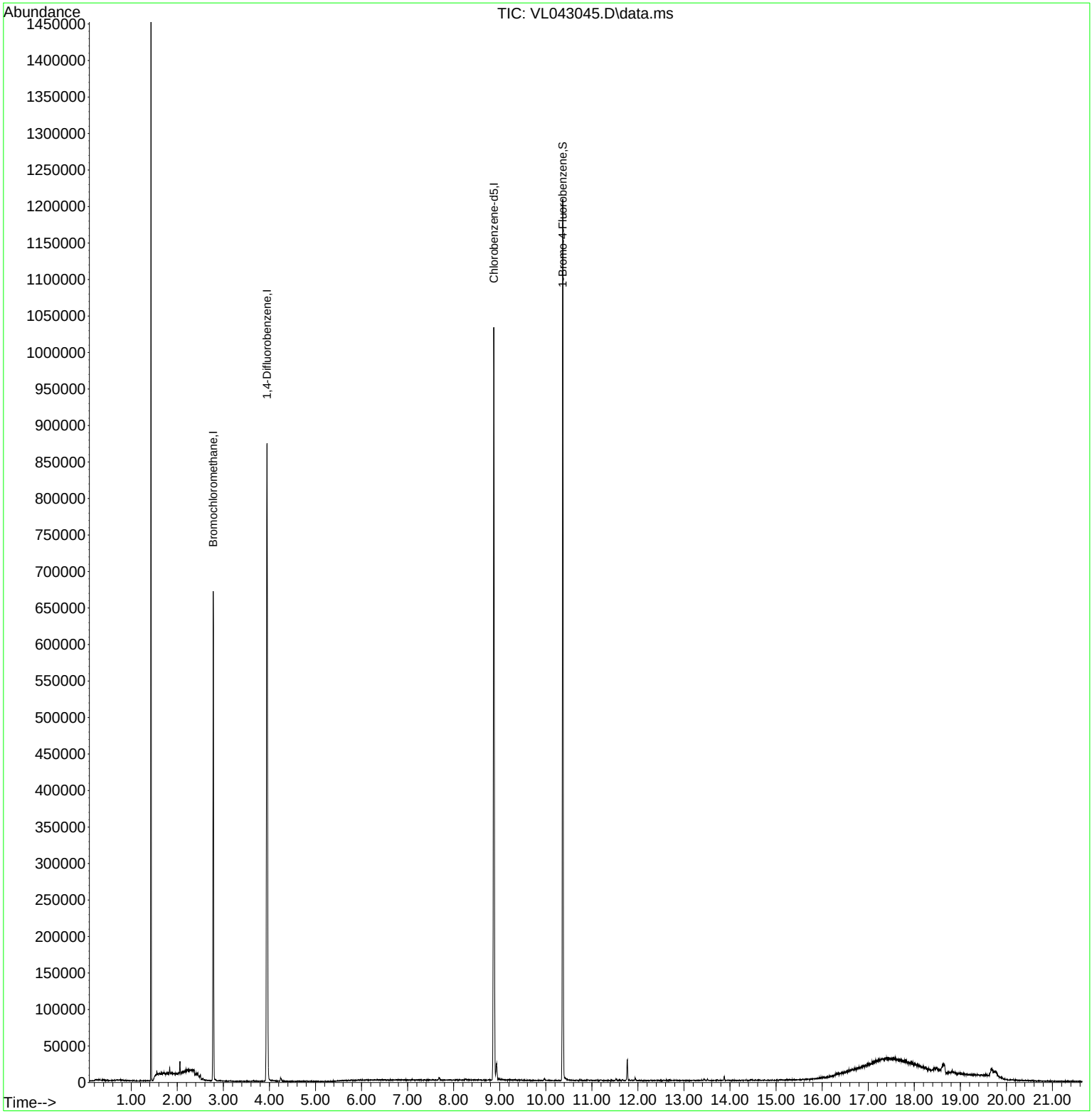
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	178856	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	516182	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	413895	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	290223	9.734	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.300%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043045.D
Acq On : 06 Oct 2025 09:19
Operator : SY/MD
Sample : VL1006ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1006ABL01

Quant Time: Oct 07 01:32:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043046.D
Acq On : 06 Oct 2025 10:12
Operator : SY/MD
Sample : VL1006ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 01:33:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1006ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/08/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.780	49	188357	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	537601	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	447189	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	338181	10.498	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	295209	9.299	ppbv	99
3) Chlorodifluoromethane	1.473	51	282563	9.201	ppbv	100
4) Chloromethane	1.531	50	106576	9.191	ppbv	97
5) Vinyl Chloride	1.576	62	101063	9.184	ppbv	99
6) Bromomethane	1.664	94	47460	9.598	ppbv	94
7) Chloroethane	1.703	64	42252	9.201	ppbv	96
8) Dichlorotetrafluoroethane	1.551	85	247037	9.497	ppbv	97
9) Propene	1.483	41	113498	9.166	ppbv	99
10) Heptane	4.965	43	320280	10.521	ppbv	100
11) Trichlorofluoromethane	1.874	101	302747	9.280	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.133	101	239211	9.310	ppbv	99
13) Ethanol	1.719	45	4927	9.710	ppbv	99
14) Bromoethene	1.777	108	87214	9.468	ppbv	99
15) Acetone	1.832	43	213544	8.097	ppbv	99
16) 1,3-Butadiene	1.606	39	99231	9.126	ppbv	99
17) tert-Butyl alcohol	2.033	59	260280	9.330	ppbv	100
18) 1,1-Dichloroethene	2.030	96	102725	9.120	ppbv	96
19) Isopropyl Alcohol	1.881	45	111933	8.858	ppbv	99
20) Methylene Chloride	2.059	84	90931	7.899	ppbv	98
21) Allyl Chloride	2.091	41	157109	9.299	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	117166	9.162	ppbv	98
23) Vinyl Acetate	2.457	43	42991	7.678	ppbv	99
24) 1,1-Dichloroethane	2.402	63	225170	9.289	ppbv	99
25) Ethyl Acetate	2.826	43	647632	9.789	ppbv	100
26) Hexane	2.819	57	258251	10.147	ppbv	100
27) Carbon Disulfide	2.146	76	283466	9.434	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	147013	9.230	ppbv	99
29) Chloroform	2.842	83	402053	9.266	ppbv	100
30) Cyclohexane	3.845	84	213947	10.230	ppbv	98
31) cis-1,2-Dichloroethene	2.712	61	247932	9.477	ppbv	95
32) 1,1,1-Trichloroethane	3.360	97	392565	9.309	ppbv	99
34) 2-Butanone	2.547	43	347648	9.530	ppbv	100
35) Carbon Tetrachloride	3.751	117	414732	9.377	ppbv	96
36) Benzene	3.648	78	513451	9.997	ppbv	99
37) 1,2-Dichloroethane	3.208	62	296234	9.738	ppbv	100
38) Trichloroethene	4.535	130	213507	9.979	ppbv	99
39) 1,2-Dichloropropane	4.302	63	185321	9.734	ppbv	96
40) 1,4-Dioxane	4.564	88	80157	9.816	ppbv #	96
41) Tetrahydrofuran	3.043	42	199341	10.573	ppbv	100
42) Bromodichloromethane	4.473	83	422079	9.826	ppbv	99
43) Methyl Methacrylate	4.862	69	185044	10.853	ppbv	99
44) 2,2,4-Trimethylpentane	4.625	57	871720	10.577	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	157655	10.104	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043046.D
Acq On : 06 Oct 2025 10:12
Operator : SY/MD
Sample : VL1006ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 01:33:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1006ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/08/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.583	75	228082	10.375	ppbv	97
47) 1,1,2-Trichloroethane	6.561	97	201822	9.530	ppbv	96
48) Dibromochloromethane	7.373	129	341429	9.879	ppbv	100
49) Bromoform	9.474	173	279106	9.669	ppbv	100
50) 4-Methyl-2-Pentanone	5.726	43	489303	11.000	ppbv	98
51) 2-Hexanone	7.419	43	361924	11.431	ppbv #	97
52) Tetrachloroethene	8.215	164	178891	9.406	ppbv	100
53) Toluene	6.917	91	563494	10.867	ppbv	100
54) 1,2-Dibromoethane	7.639	107	248606	9.905	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.914	131	264054	9.687	ppbv	99
57) Chlorobenzene	8.911	112	456710	9.661	ppbv	99
58) Ethyl Benzene	9.344	91	767600	11.080	ppbv	98
59) m/p-Xylene	9.542	91	1275234m	21.824	ppbv	
60) o-Xylene	9.956	91	632243	10.862	ppbv	98
61) Styrene	9.862	104	275280	11.289	ppbv	99
62) Isopropylbenzene	10.532	105	945764	10.584	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	373448	8.943	ppbv	99
64) n-propylbenzene	10.982	120	246252	10.773	ppbv	99
65) tert-Butylbenzene	11.523	119	829195	10.427	ppbv	100
66) Benzyl Chloride	11.607	91	28281	9.305	ppbv	99
67) sec-Butylbenzene	11.759	105	1139275	10.266	ppbv	100
69) p-Isopropyltoluene	11.917	119	953493	10.562	ppbv	99
70) n-Butylbenzene	12.274	91	920477	10.590	ppbv	100
71) 2-Chlorotoluene	10.891	91	679459	10.507	ppbv	99
72) 4-Ethyltoluene	11.118	105	752627	10.863	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	630941	10.527	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	702152	10.380	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	409449	9.307	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	401258	9.565	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	389675	8.892	ppbv	99
78) Hexachloro-1,3-Butadiene	13.872	225	292520	9.580	ppbv	99
79) Naphthalene	13.503	128	548561	9.592	ppbv	99
80) Naphthalene,2-methyl-	14.449	142	207324	7.891	ppbv	99
81) 1,2,4-Trichlorobenzene	13.432	180	312207	11.975	ppbv	99

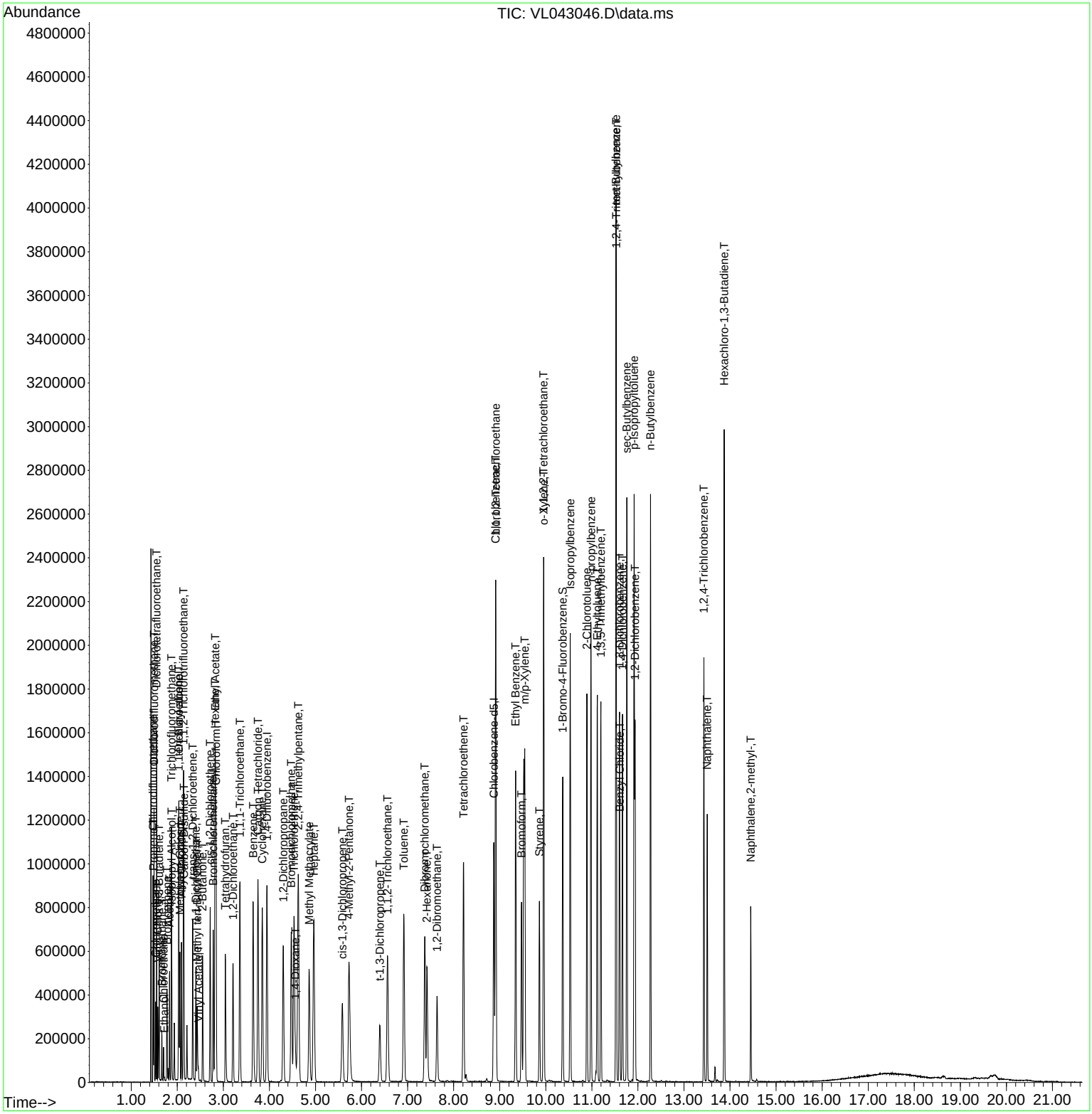
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043046.D
Acq On : 06 Oct 2025 10:12
Operator : SY/MD
Sample : VL1006ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 01:33:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1006ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/08/2025
Supervised By :Mahesh Dadoda 10/10/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043048.D
Acq On : 06 Oct 2025 11:23
Operator : SY/MD
Sample : QC092425 CAN 10590
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC092425 CAN 10590

Quant Time: Oct 07 01:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

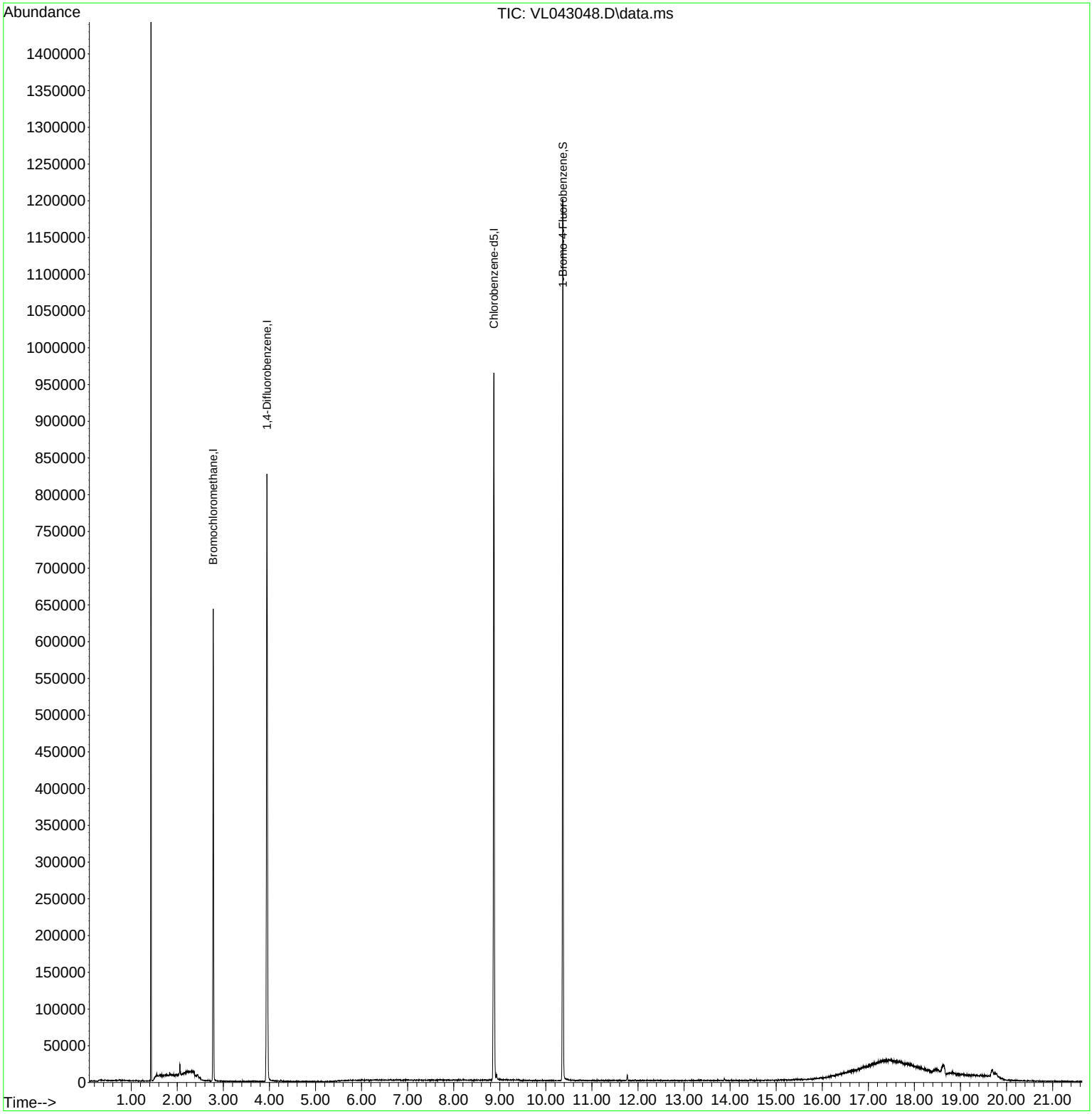
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	170545	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	476003	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	387537	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	268829	9.629	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.300%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043048.D
Acq On : 06 Oct 2025 11:23
Operator : SY/MD
Sample : QC092425 CAN 10590
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC092425 CAN 10590

Quant Time: Oct 07 01:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 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 # VL050125

Review By	Semsettin Yesilyurt	Review On	5/2/2025 7:59:23 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:39 PM				
SubDirectory	VL050125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2603
Initial Calibration Stds	AP2606,AP2607,AP2608
CCC	AP2606
Internal Standard/PEM	AP2603
ICV/I.BLK	AP2609
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042457.D	01 May 2025 08:19	SY/MD	Ok
2	VSTDICCC010	VL042458.D	01 May 2025 09:03	SY/MD	Ok,M
3	VSTDICC002	VL042459.D	01 May 2025 09:37	SY/MD	Ok,M
4	VSTDICC001	VL042460.D	01 May 2025 10:08	SY/MD	Ok,M
5	VSTDICC0.5	VL042461.D	01 May 2025 10:40	SY/MD	Ok,M
6	VSTDICC0.1	VL042462.D	01 May 2025 11:12	SY/MD	Ok,M
7	VSTDICC0.03	VL042463.D	01 May 2025 11:44	SY/MD	Not Ok
8	VSTDICC0.03	VL042464.D	01 May 2025 12:15	SY/MD	Not Ok
9	VSTDICC015	VL042465.D	01 May 2025 12:49	SY/MD	Ok,M
10	VSTDICC0.03	VL042466.D	01 May 2025 14:10	SY/MD	Ok,M
11	VSTDICV010	VL042467.D	01 May 2025 15:46	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL050625

Review By	Semsettin Yesilyurt	Review On	5/9/2025 2:37:46 PM				
Supervise By	Mahesh Dadoda	Supervise On	5/9/2025 2:51:31 PM				
SubDirectory	VL050625	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2603
Initial Calibration Stds	AP2606,AP2607,AP2608
CCC	AP2606
Internal Standard/PEM	AP2603
ICV/I.BLK	AP2609
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042486.D	06 May 2025 08:16	SY/MD	Ok
2	VSTDCCC010	VL042487.D	06 May 2025 09:00	SY/MD	Ok,M
3	VL0506ABL01	VL042488.D	06 May 2025 09:49	SY/MD	Ok
4	VL0506ABS01	VL042489.D	06 May 2025 10:44	SY/MD	Ok,M
5	QC043025 CAN 10605	VL042490.D	06 May 2025 11:15	SY/MD	Ok
6	QC042925 CAN 10590	VL042491.D	06 May 2025 11:47	SY/MD	Ok
7	QC042225 CAN 10669	VL042492.D	06 May 2025 12:19	SY/MD	Ok
8	QC042325 CAN 10683	VL042493.D	06 May 2025 12:51	SY/MD	Ok
9	QC0429325 CAN 10458	VL042494.D	06 May 2025 13:23	SY/MD	Ok
10	MDL1 0.45	VL042495.D	06 May 2025 14:26	SY/MD	Ok,M
11	MDL2 0.45	VL042496.D	06 May 2025 14:57	SY/MD	Ok,M
12	MDL3 0.45	VL042497.D	06 May 2025 15:29	SY/MD	Not Ok
13	MDL1 0.03	VL042498.D	06 May 2025 16:01	SY/MD	Ok,M
14	MDL2 0.03	VL042499.D	06 May 2025 16:32	SY/MD	Not Ok
15	MDL3 0.03	VL042500.D	06 May 2025 17:04	SY/MD	Ok,M
16	MDL1 0.40	VL042501.D	06 May 2025 17:36	SY/MD	Ok,M
17	MDL2 0.40	VL042502.D	06 May 2025 18:07	SY/MD	Ok,M
18	MDL3 0.40	VL042503.D	06 May 2025 18:39	SY/MD	Ok,M
19	MDL1 0.1	VL042504.D	06 May 2025 19:10	SY/MD	Ok,M
20	MDL2 0.1	VL042505.D	06 May 2025 19:42	SY/MD	Ok,M
21	MDL3 0.1	VL042506.D	06 May 2025 20:13	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 # VL050625

Review By	Semsettin Yesilyurt	Review On	5/9/2025 2:37:46 PM				
Supervise By	Mahesh Dadoda	Supervise On	5/9/2025 2:51:31 PM				
SubDirectory	VL050625	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2603
Initial Calibration Stds	AP2606,AP2607,AP2608
CCC	AP2606
Internal Standard/PEM	AP2603
ICV/I.BLK	AP2609
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC010	VL042507.D	06 May 2025 20:45	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 # VL100225

Review By	Semsettin Yesilyurt	Review On	10/3/2025 9:49:03 AM				
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 2:54:57 AM				
SubDirectory	VL100225	HP Acquire Method	TO15AIR	HP Processing Method	VL100225AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2682
Initial Calibration Stds	AP2678,AP2679,AP2680
CCC	AP2678
Internal Standard/PEM	AP2682
ICV/I.BLK	AP2681
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043030.D	02 Oct 2025 09:11	SY/MD	Ok
2	VSTDICC0.5	VL043031.D	02 Oct 2025 09:50	SY/MD	Ok,M
3	VSTDICCC010	VL043032.D	02 Oct 2025 10:23	SY/MD	Ok,M
4	VSTDICC002	VL043033.D	02 Oct 2025 10:57	SY/MD	Ok,M
5	VSTDICC001	VL043034.D	02 Oct 2025 11:29	SY/MD	Ok,M
6	VSTDICC0.5	VL043035.D	02 Oct 2025 12:02	SY/MD	Not Ok
7	VSTDICC0.1	VL043036.D	02 Oct 2025 12:35	SY/MD	Ok,M
8	VSTDICC0.03	VL043037.D	02 Oct 2025 13:07	SY/MD	Ok,M
9	VSTDICC015	VL043038.D	02 Oct 2025 13:41	SY/MD	Ok,M
10	VSTDICV010	VL043039.D	02 Oct 2025 14:14	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 # VL100625

Review By	Semsettin Yesilyurt	Review On	10/8/2025 10:36:14 AM				
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 2:51:29 AM				
SubDirectory	VL100625	HP Acquire Method	TO15AIR		HP Processing Method	VL100225AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2682
Initial Calibration Stds	AP2678,AP2679,AP2680
CCC	AP2678
Internal Standard/PEM	AP2682
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043043.D	06 Oct 2025 07:57	SY/MD	Ok
2	VSTDCCC010	VL043044.D	06 Oct 2025 08:38	SY/MD	Ok,M
3	VL1006ABL01	VL043045.D	06 Oct 2025 09:19	SY/MD	Ok
4	VL1006ABS01	VL043046.D	06 Oct 2025 10:12	SY/MD	Ok,M
5	QC092925 CAN 10198	VL043047.D	06 Oct 2025 10:50	SY/MD	Ok
6	QC092425 CAN 10590	VL043048.D	06 Oct 2025 11:23	SY/MD	Ok
7	CAN 10296	VL043049.D	06 Oct 2025 11:56	SY/MD	Ok
8	CAN 10312	VL043050.D	06 Oct 2025 12:29	SY/MD	Ok
9	Q2893-14 0.5 LOQ	VL043051.D	06 Oct 2025 13:38	SY/MD	ReRun
10	Q2893-14 0.03 LOQ	VL043052.D	06 Oct 2025 14:11	SY/MD	Ok,M

M : Manual Integration

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043105.D
Acq On : 14 Oct 2025 10:31
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Oct 15 01:51:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	103971	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	341790	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	309230	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	241468	10.046	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	132845	8.987	ppbv	100
3) Chlorodifluoromethane	1.476	51	150832	9.431	ppbv	100
4) Chloromethane	1.535	50	51934	8.869	ppbv	100
5) Vinyl Chloride	1.583	62	50044	8.713	ppbv	100
6) Bromomethane	1.671	94	27062	8.593	ppbv	100
7) Chloroethane	1.706	64	19941	8.492	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	108109	9.049	ppbv	100
9) Propene	1.483	41	68116	9.602	ppbv	100
10) Heptane	4.985	43	187423	9.217	ppbv	100
11) Trichlorofluoromethane	1.881	101	129180	8.935	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	101442	8.715	ppbv	100
13) Ethanol	1.722	45	20045	7.640	ppbv	100
14) Bromoethene	1.784	108	38553	8.916	ppbv	100
15) Acetone	1.836	43	113399	8.047	ppbv	100
16) 1,3-Butadiene	1.612	39	57406	8.596	ppbv	100
17) tert-Butyl alcohol	2.043	59	175630	9.130	ppbv	100
18) 1,1-Dichloroethene	2.036	96	45413	8.949	ppbv	100
19) Isopropyl Alcohol	1.887	45	75355	8.634	ppbv	97
20) Methylene Chloride	2.065	84	42212	7.620	ppbv	100
21) Allyl Chloride	2.098	41	94625	9.145	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	53146	8.761	ppbv	100
23) Vinyl Acetate	2.467	43	168706	8.218	ppbv	100
24) 1,1-Dichloroethane	2.412	63	107153	9.143	ppbv	100
25) Ethyl Acetate	2.839	43	325662	9.371	ppbv	100
26) Hexane	2.829	57	146168	9.128	ppbv	99
27) Carbon Disulfide	2.153	76	136729	9.319	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	61076	8.384	ppbv	98
29) Chloroform	2.852	83	211071	9.097	ppbv	100
30) Cyclohexane	3.862	84	126226	9.037	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	146072	9.553	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	222043	9.189	ppbv	100
34) 2-Butanone	2.557	43	207274	8.971	ppbv	100
35) Carbon Tetrachloride	3.768	117	221937	9.032	ppbv	100
36) Benzene	3.661	78	297653	9.246	ppbv	100
37) 1,2-Dichloroethane	3.221	62	165898	8.946	ppbv	100
38) Trichloroethene	4.554	130	116947	8.708	ppbv	100
39) 1,2-Dichloropropane	4.315	63	108446	9.207	ppbv	100
40) 1,4-Dioxane	4.583	88	48201	9.153	ppbv #	97
41) Tetrahydrofuran	3.056	42	117069	9.076	ppbv	100
42) Bromodichloromethane	4.496	83	238353	9.286	ppbv	100
43) Methyl Methacrylate	4.881	69	153927	9.371	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	499148	9.273	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	157856	9.620	ppbv	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043105.D
Acq On : 14 Oct 2025 10:31
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Oct 15 01:51:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	186533	9.525	ppbv		100
47) 1,1,2-Trichloroethane	6.584	97	115419	9.082	ppbv		100
48) Dibromochloromethane	7.390	129	201349	9.476	ppbv		100
49) Bromoform	9.487	173	166377	9.633	ppbv		100
50) 4-Methyl-2-Pentanone	5.755	43	298401	9.362	ppbv		100
51) 2-Hexanone	7.438	43	236391	9.940	ppbv		100
52) Tetrachloroethene	8.228	164	106710	9.192	ppbv		100
53) Toluene	6.940	91	354007	9.266	ppbv		100
54) 1,2-Dibromoethane	7.658	107	182074	9.080	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.927	131	182585	9.367	ppbv		100
57) Chlorobenzene	8.927	112	262566	9.076	ppbv		100
58) Ethyl Benzene	9.358	91	494344	9.241	ppbv		100
59) m/p-Xylene	9.536	91	403670	9.529	ppbv	#	29
60) o-Xylene	9.969	91	378462	9.053	ppbv		100
61) Styrene	9.875	104	178859	9.477	ppbv		100
62) Isopropylbenzene	10.542	105	692992	9.173	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.966	83	240245	8.582	ppbv		100
64) n-propylbenzene	10.992	120	182233	9.112	ppbv		100
65) tert-Butylbenzene	11.536	119	587750	8.810	ppbv		100
66) Benzyl Chloride	11.617	91	74574	10.009	ppbv		100
67) sec-Butylbenzene	11.769	105	834052	8.809	ppbv		100
69) p-Isopropyltoluene	11.927	119	720433	8.955	ppbv		100
70) n-Butylbenzene	12.283	91	717743	9.053	ppbv		100
71) 2-Chlorotoluene	10.905	91	524961	9.111	ppbv		100
72) 4-Ethyltoluene	11.128	105	473042	9.202	ppbv		100
73) 1,3,5-Trimethylbenzene	11.206	105	389818	9.195	ppbv		100
74) 1,2,4-Trimethylbenzene	11.539	105	411619	8.676	ppbv		100
75) 1,3-Dichlorobenzene	11.610	146	252926	9.192	ppbv		100
76) 1,4-Dichlorobenzene	11.675	146	254461	9.171	ppbv		100
77) 1,2-Dichlorobenzene	11.950	146	236724	8.893	ppbv		100
78) Hexachloro-1,3-Butadiene	13.886	225	171777	8.334	ppbv		100
79) Naphthalene	13.517	128	488672	9.972	ppbv		100
80) Naphthalene,2-methyl-	14.458	142	147897	11.431	ppbv		100
81) 1,2,4-Trichlorobenzene	13.442	180	197210	9.582	ppbv		100

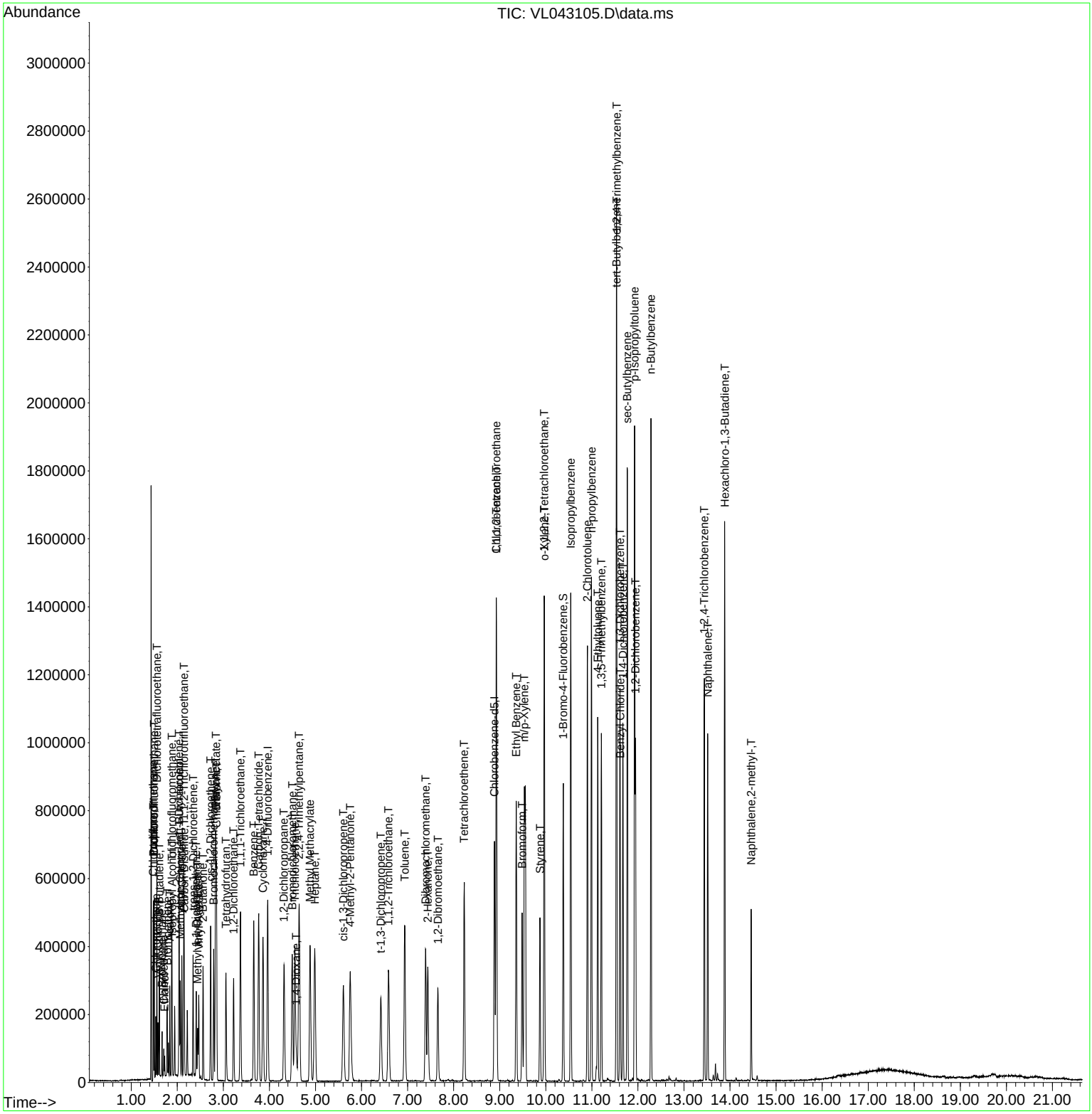
(#) = qualifier out of range (m) = manual integration (+) = signals summed

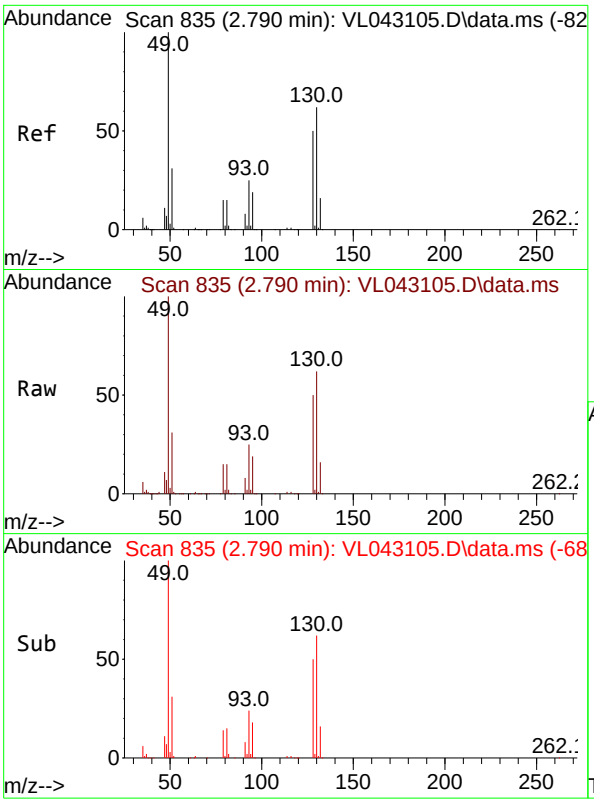
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043105.D
Acq On : 14 Oct 2025 10:31
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Oct 15 01:51:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration



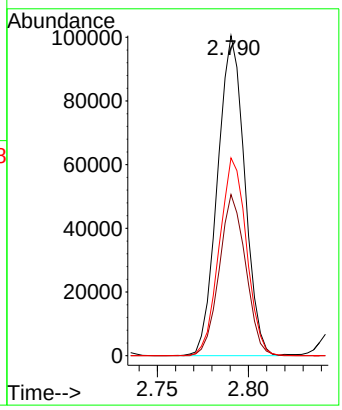


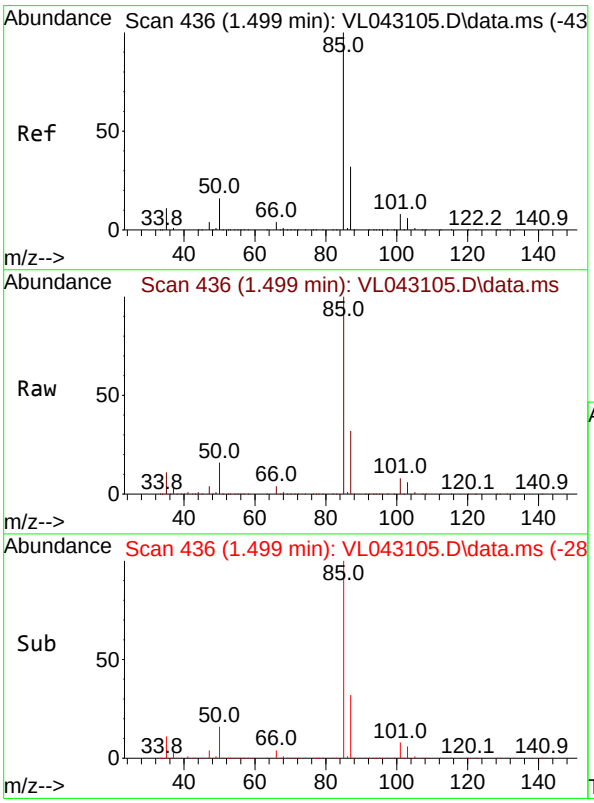
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 49 Resp: 103971

Ion	Ratio	Lower	Upper
49	100		
128	48.9	24.4	73.4
130	62.0	31.0	93.0

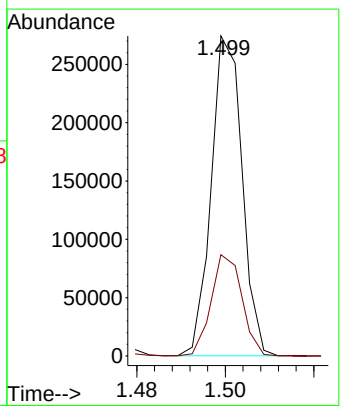


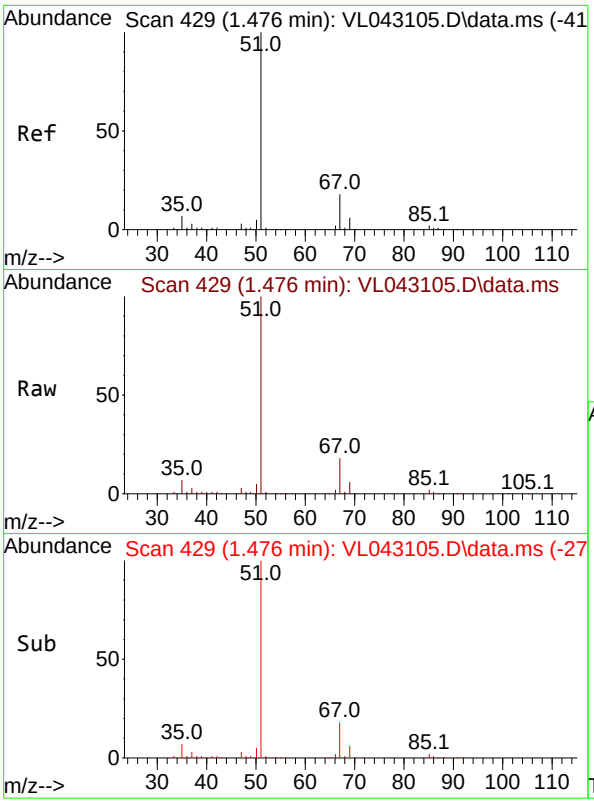


#2
Dichlorodifluoromethane
Concen: 8.987 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 132845

Ion	Ratio	Lower	Upper
85	100		
87	31.6	25.3	37.9



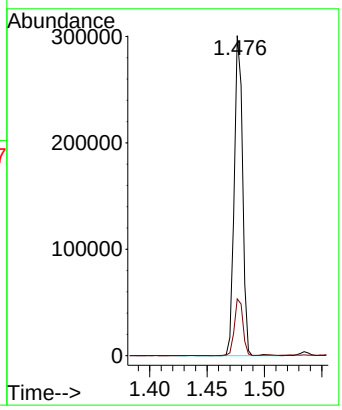


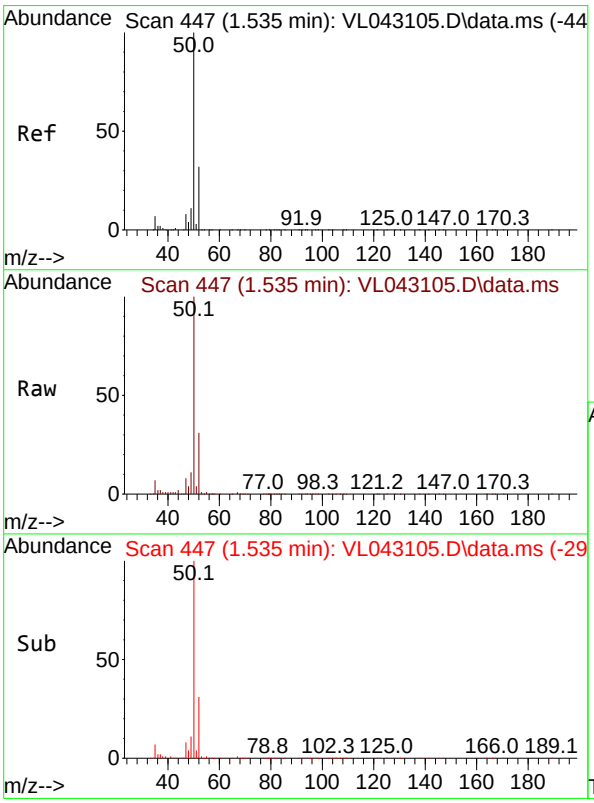
#3
Chlorodifluoromethane
Concen: 9.431 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 150832

Ion	Ratio	Lower	Upper
51	100		
67	18.9	15.1	22.7

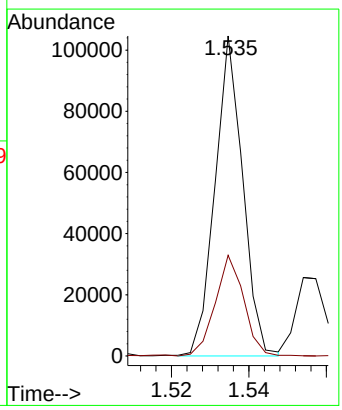


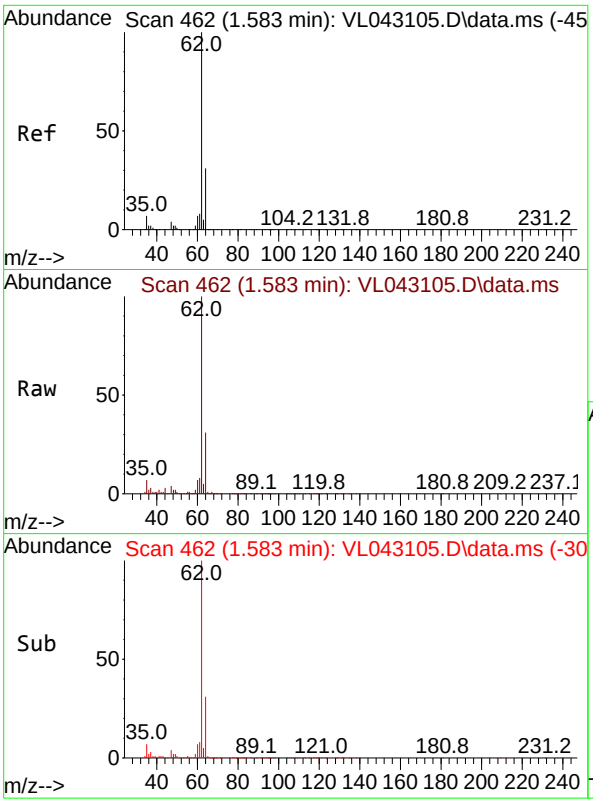


#4
Chloromethane
Concen: 8.869 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 50 Resp: 51934

Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.2	37.8



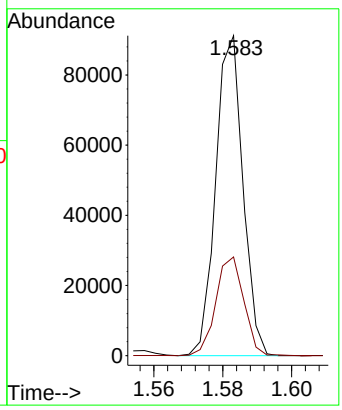


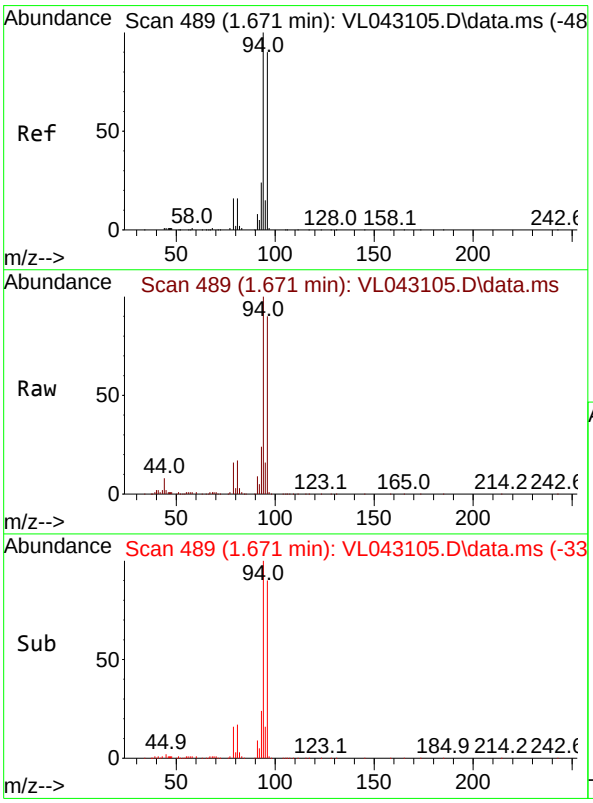
#5
Vinyl Chloride
Concen: 8.713 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 50044

Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.6	36.8

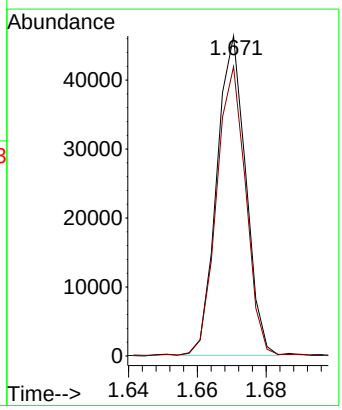


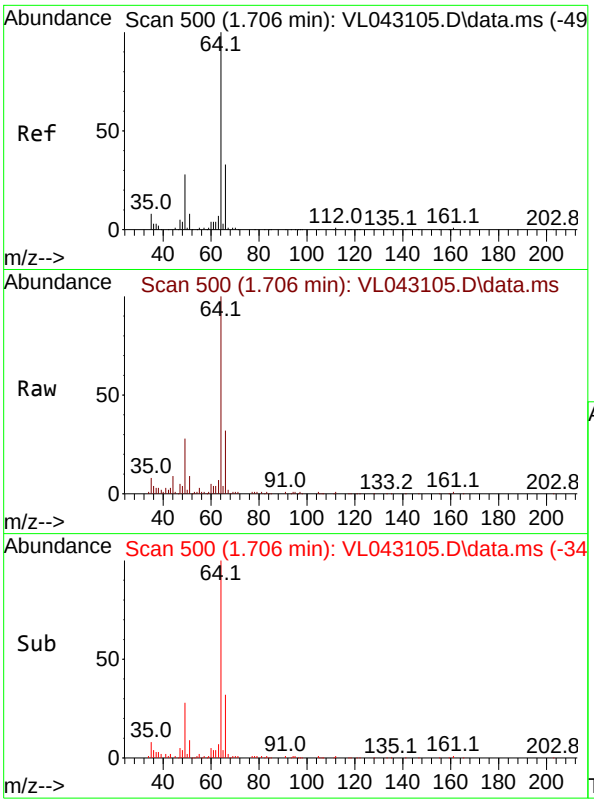


#6
Bromomethane
Concen: 8.593 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 94 Resp: 27062

Ion	Ratio	Lower	Upper
94	100		
96	90.3	72.2	108.4



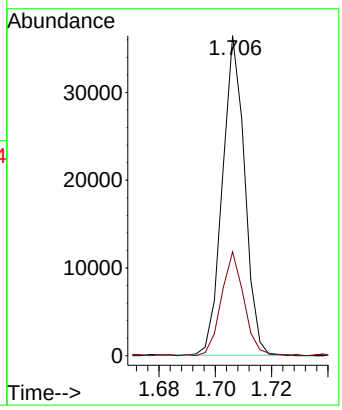


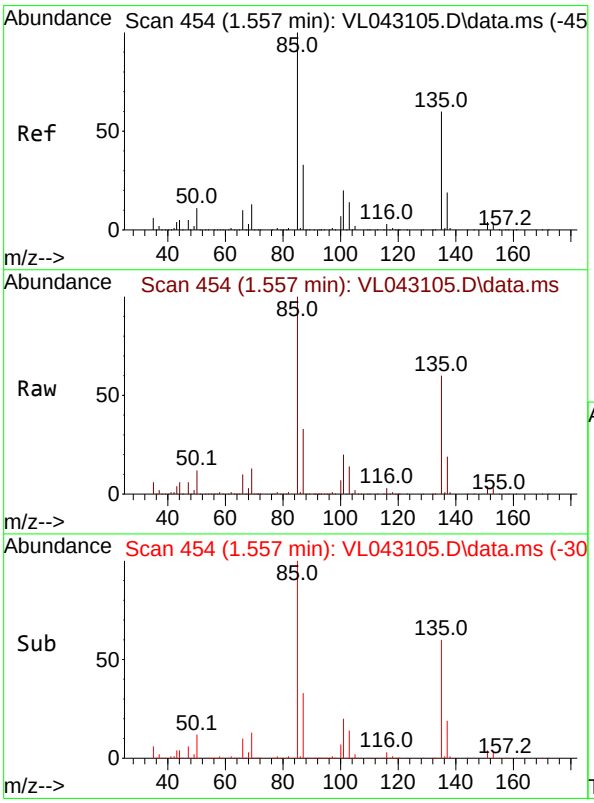
#7
Chloroethane
Concen: 8.492 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 19941

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.0	39.0

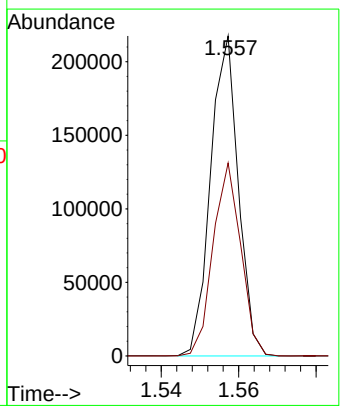


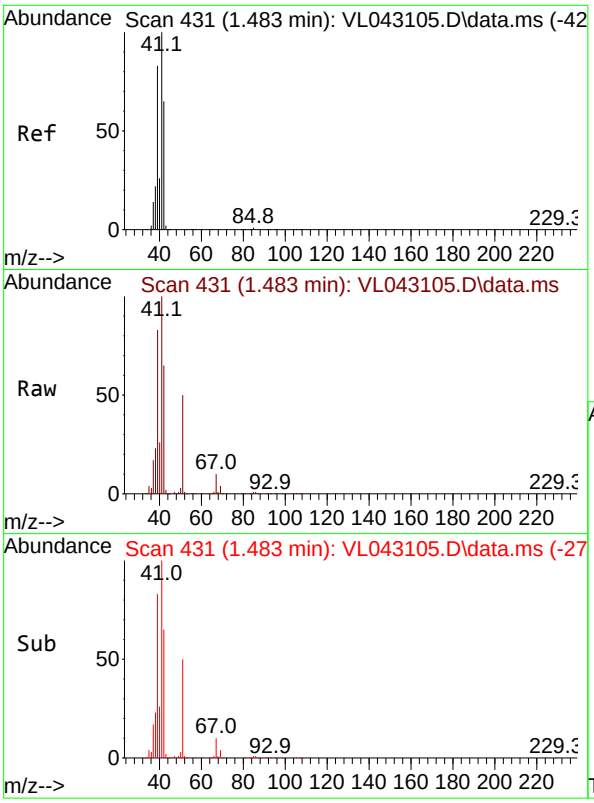


#8
Dichlorotetrafluoroethane
Concen: 9.049 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 108109

Ion	Ratio	Lower	Upper
85	100		
135	60.3	48.2	72.4



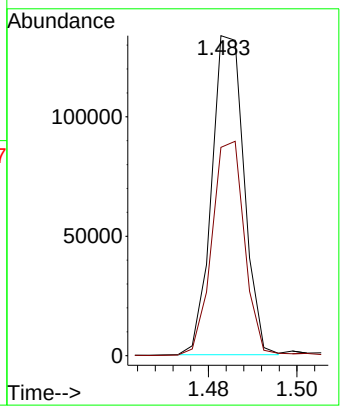


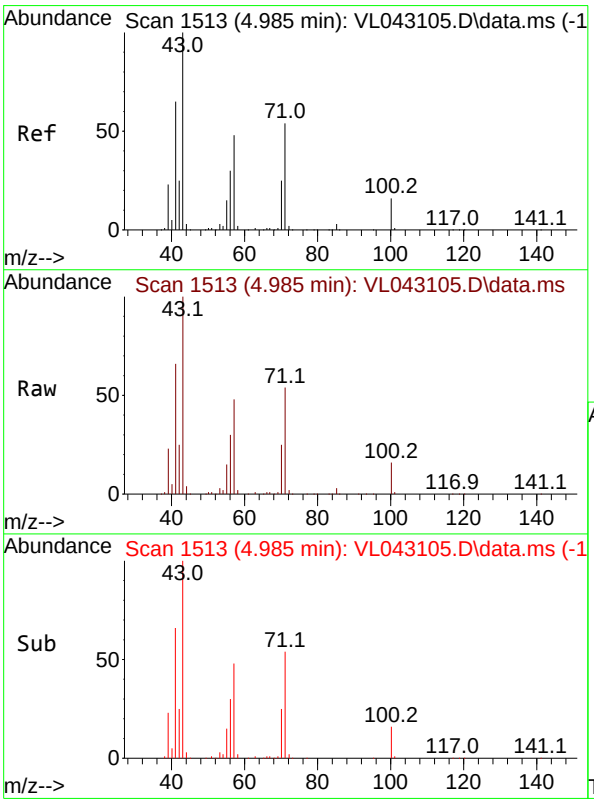
#9
Propene
Concen: 9.602 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 68116

Ion	Ratio	Lower	Upper
41	100		
42	68.9	55.1	82.7

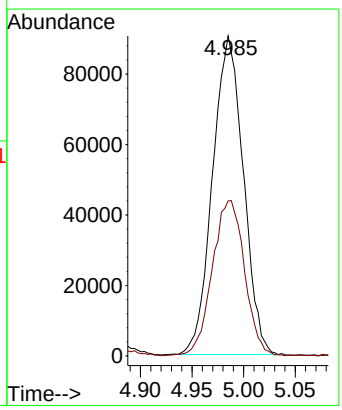


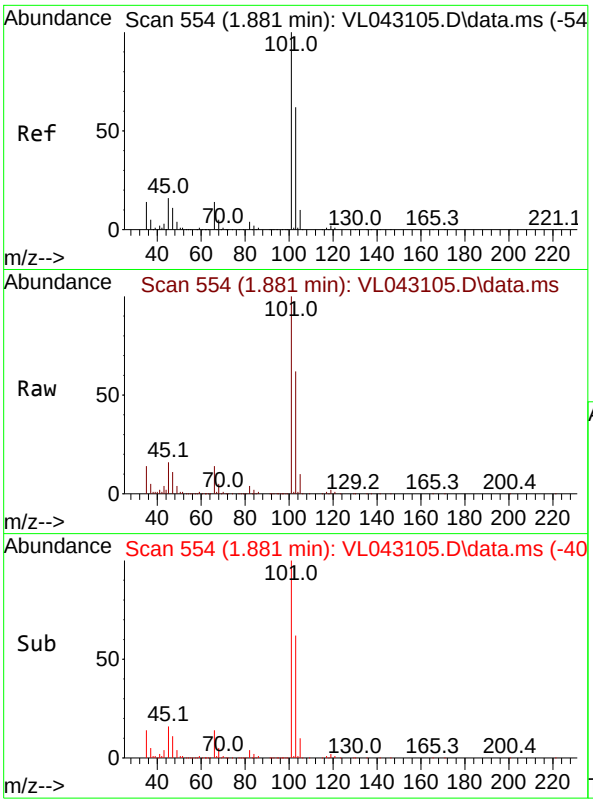


#10
Heptane
Concen: 9.217 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 187423

Ion	Ratio	Lower	Upper
43	100		
57	50.9	40.8	61.2



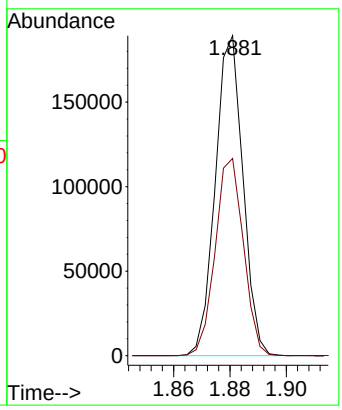


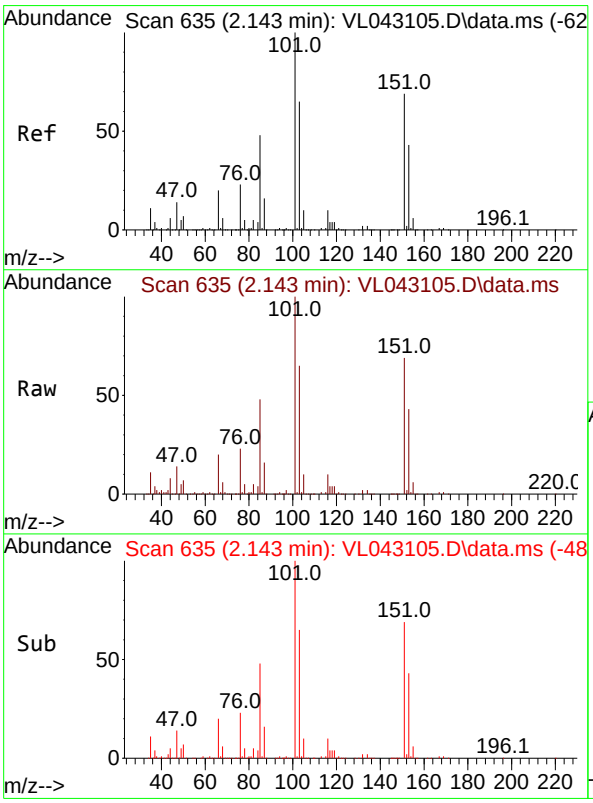
#11
Trichlorofluoromethane
Concen: 8.935 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 129180

Ion	Ratio	Lower	Upper
101	100		
103	61.6	49.3	73.9

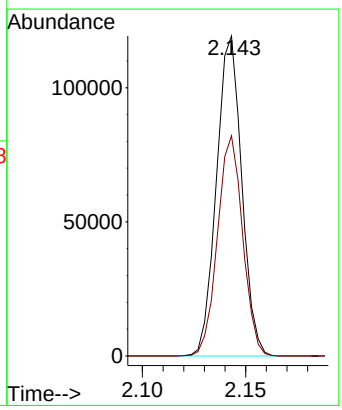


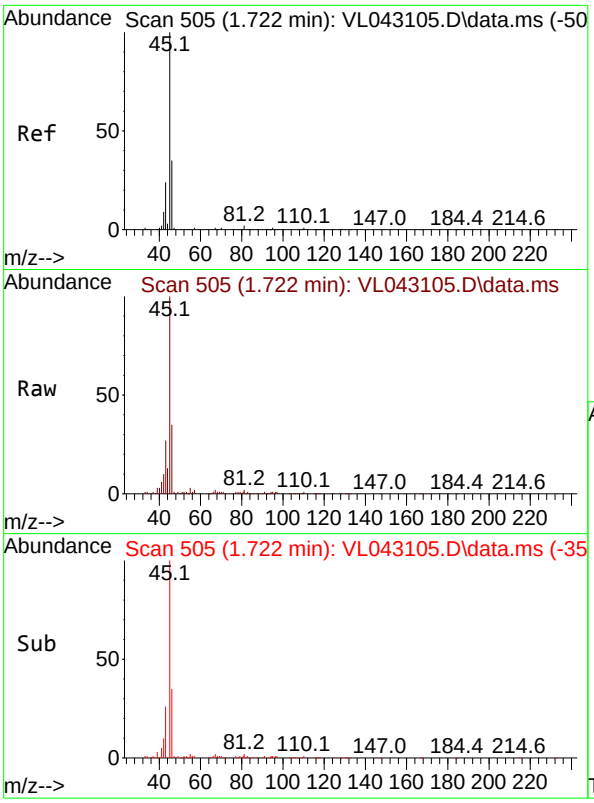


#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.715 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:101 Resp: 101442

Ion	Ratio	Lower	Upper
101	100		
151	68.4	54.7	82.1



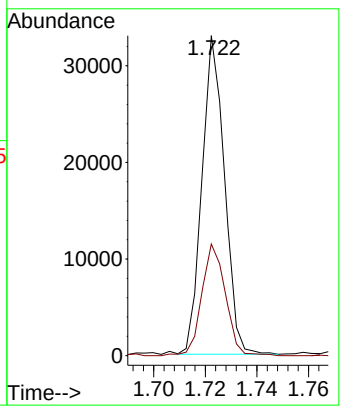


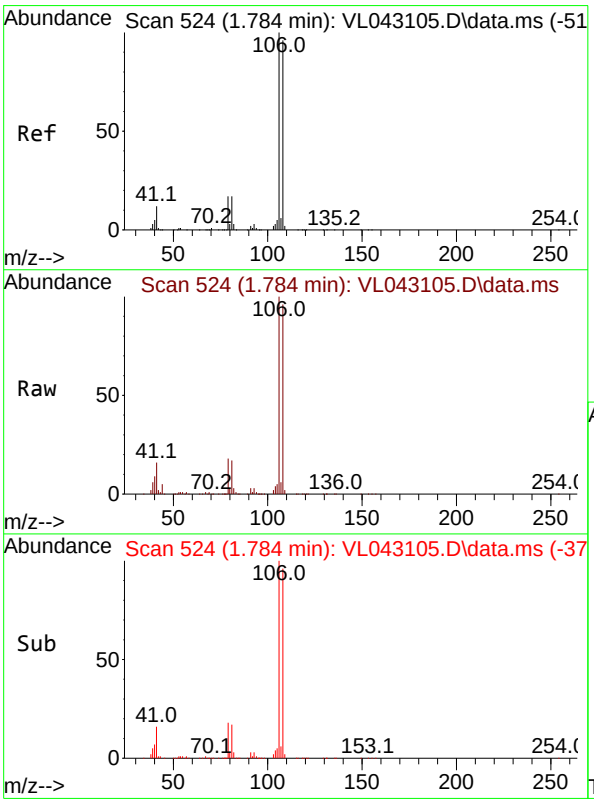
#13
Ethanol
Concen: 7.640 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 20045

Ion	Ratio	Lower	Upper
45	100		
46	36.8	14.7	58.9

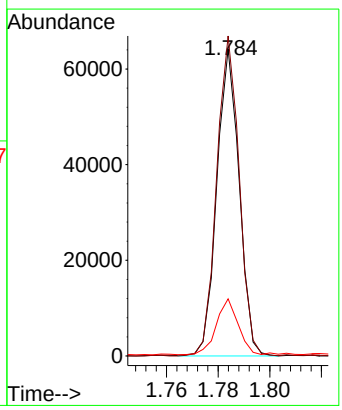


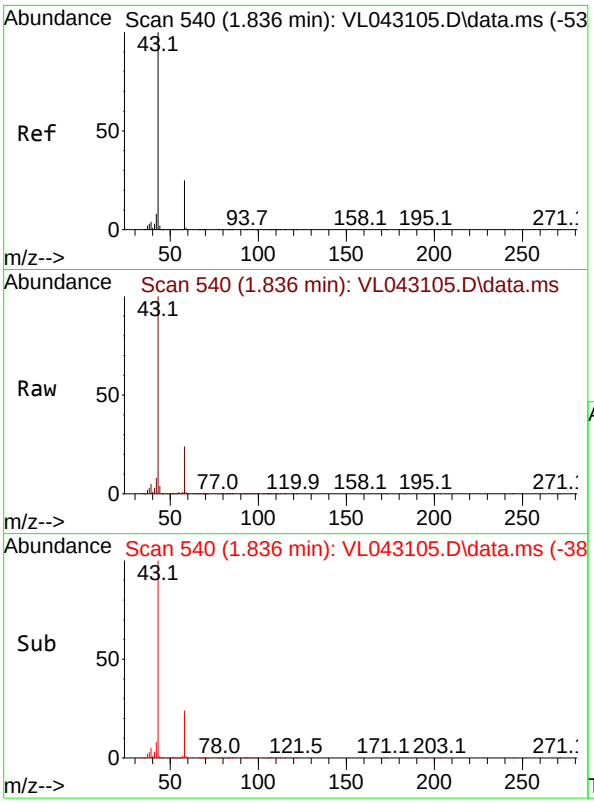


#14
Bromoethene
Concen: 8.916 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:108 Resp: 38553

Ion	Ratio	Lower	Upper
108	100		
106	105.5	84.4	126.6
79	19.1	15.3	22.9



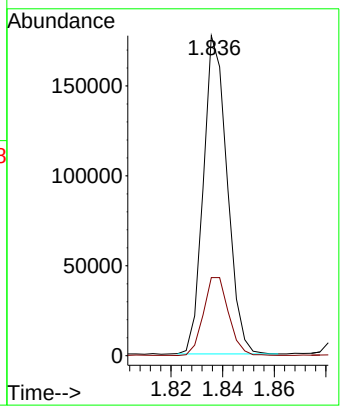


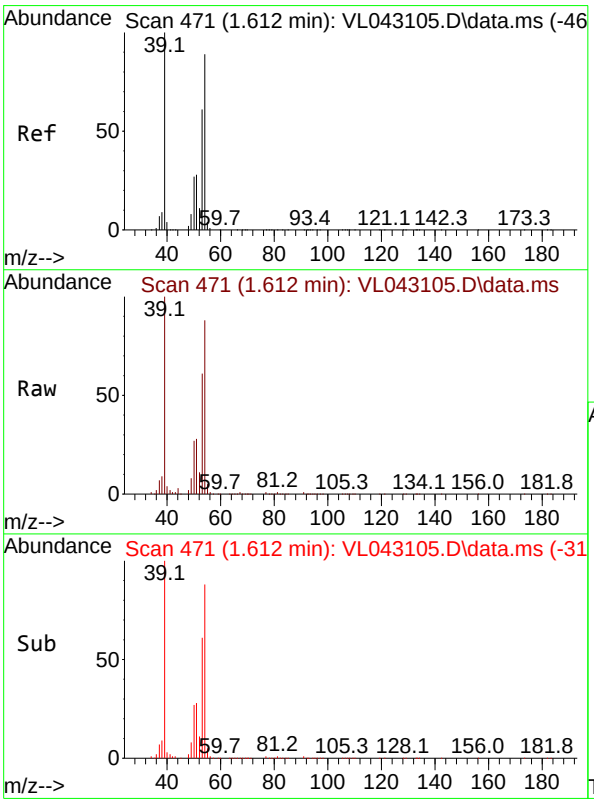
#15
Acetone
Concen: 8.047 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 113399

Ion	Ratio	Lower	Upper
43	100		
58	26.0	20.8	31.2

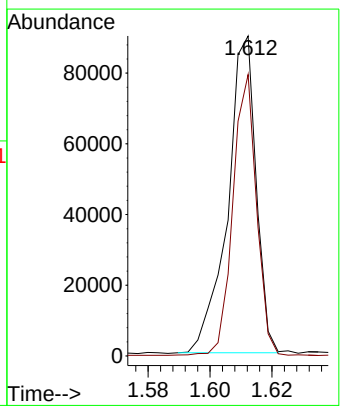


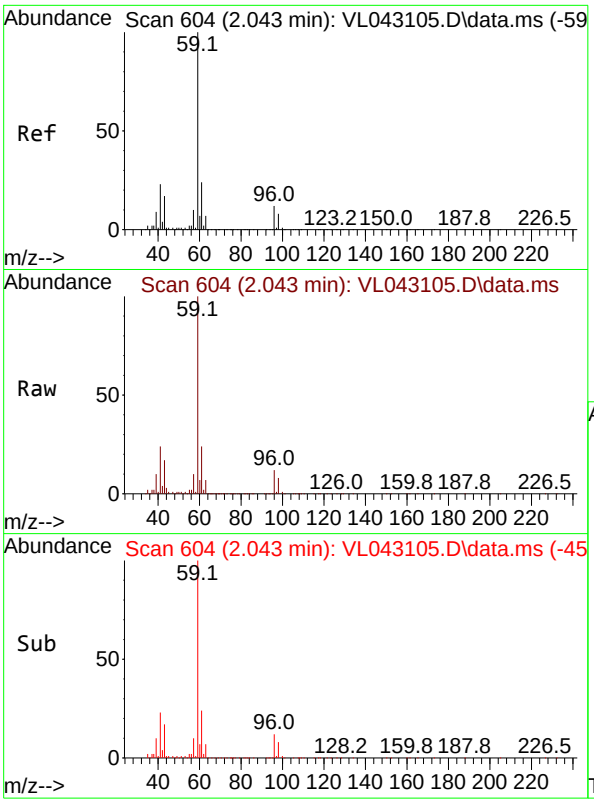


#16
1,3-Butadiene
Concen: 8.596 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 39 Resp: 57406

Ion	Ratio	Lower	Upper
39	100		
54	73.7	59.0	88.4



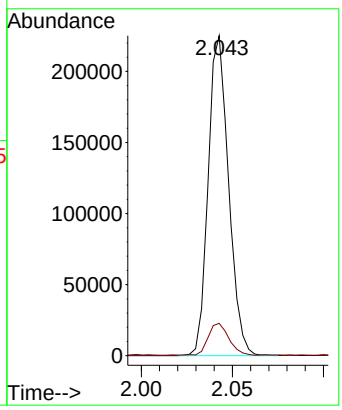


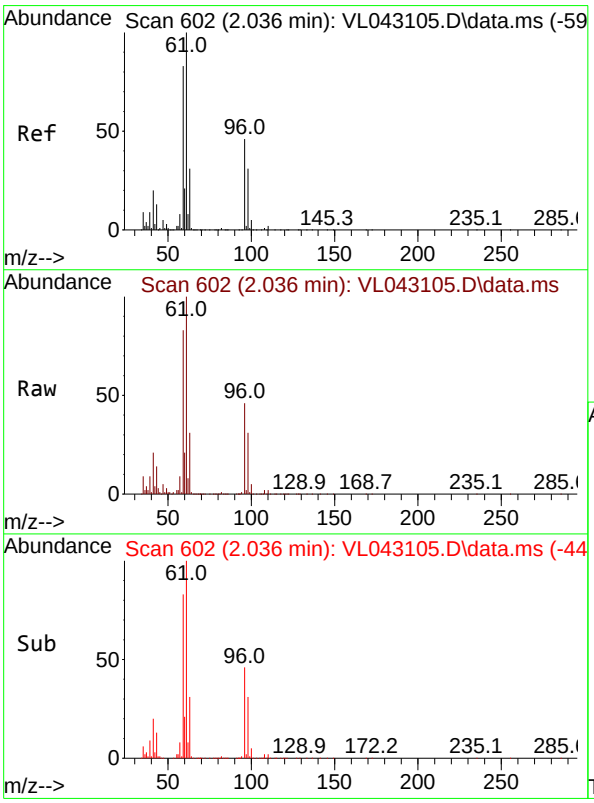
#17
tert-Butyl alcohol
Concen: 9.130 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 175630

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.2	12.4

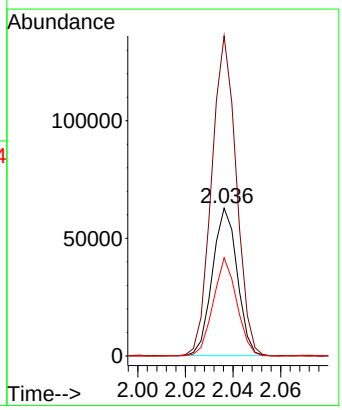


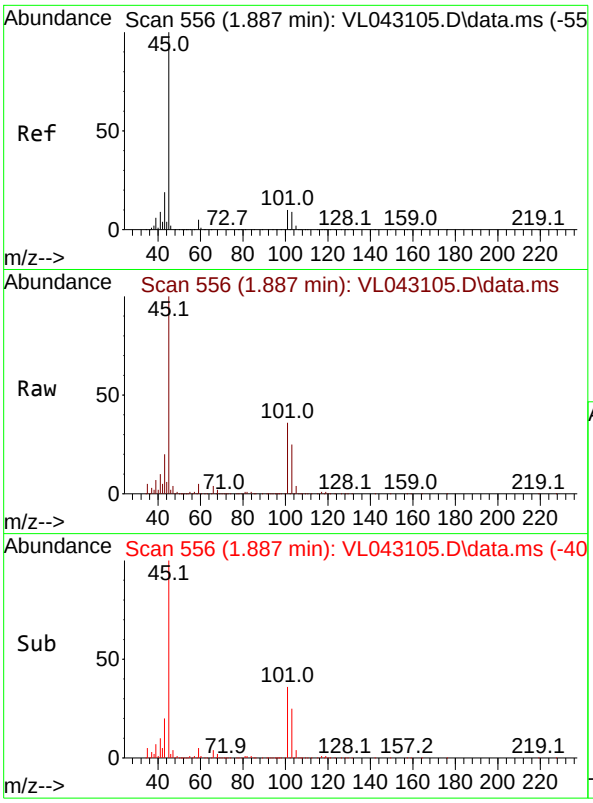


#18
1,1-Dichloroethene
Concen: 8.949 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 96 Resp: 45413

Ion	Ratio	Lower	Upper
96	100		
61	216.7	173.4	260.0
98	66.5	53.2	79.8



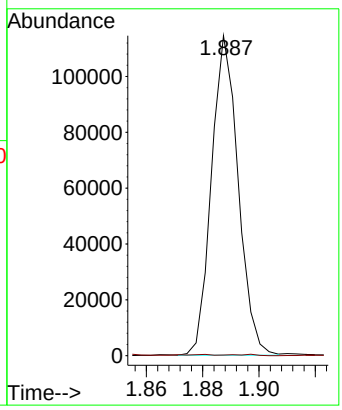


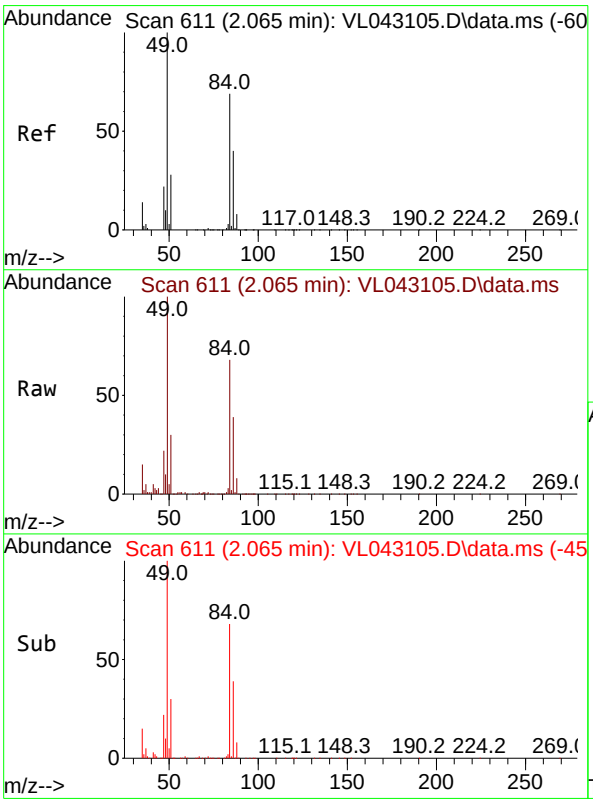
#19
Isopropyl Alcohol
Concen: 8.634 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 75355

Ion	Ratio	Lower	Upper
45	100		
58	41.1	31.3	46.9

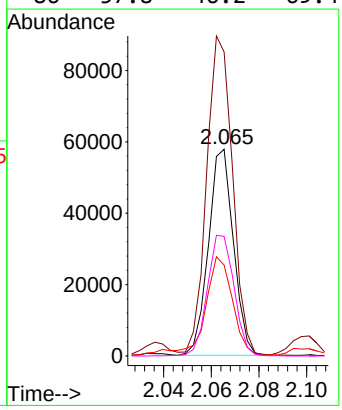


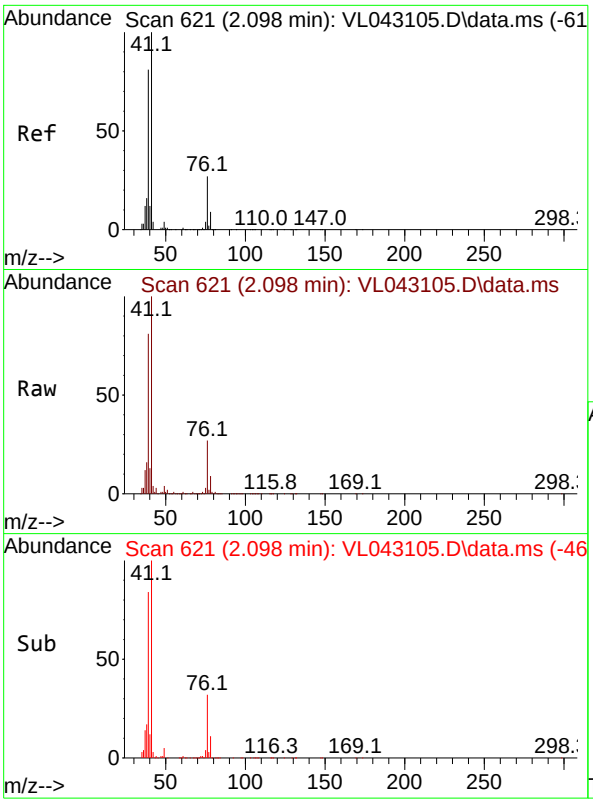


#20
Methylene Chloride
Concen: 7.620 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 84 Resp: 42212

Ion	Ratio	Lower	Upper
84	100		
49	145.8	116.6	175.0
51	43.5	34.8	52.2
86	57.8	46.2	69.4



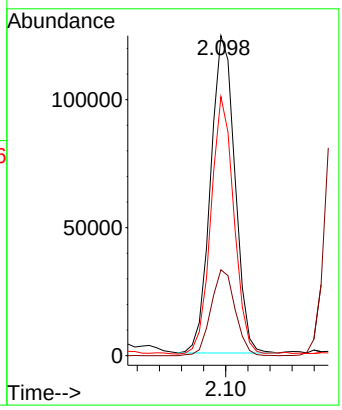


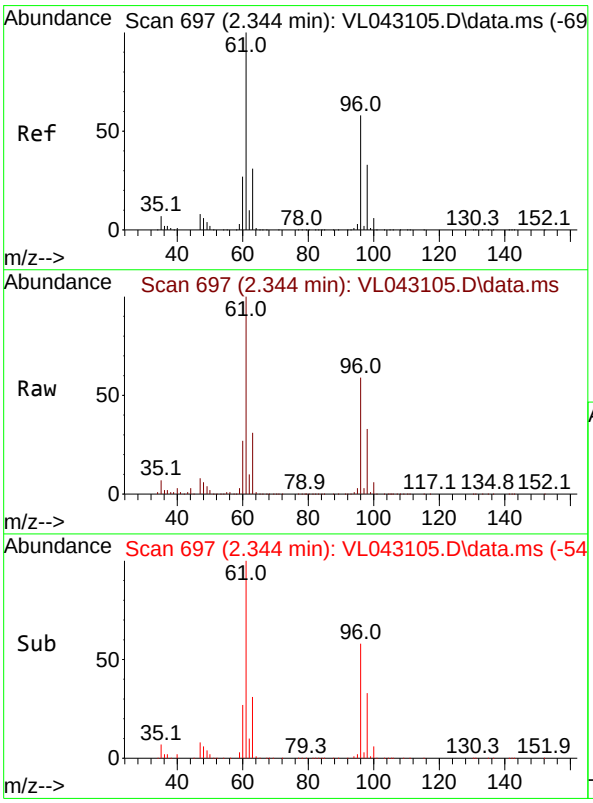
#21
Allyl Chloride
Concen: 9.145 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 94625

Ion	Ratio	Lower	Upper
41	100		
76	26.9	21.5	32.3
39	76.4	60.8	91.2

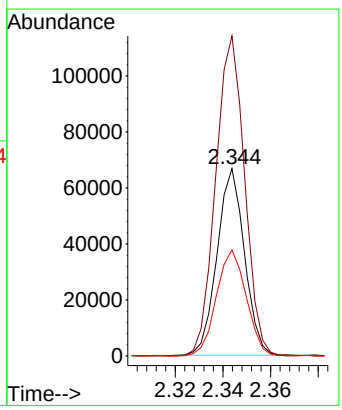


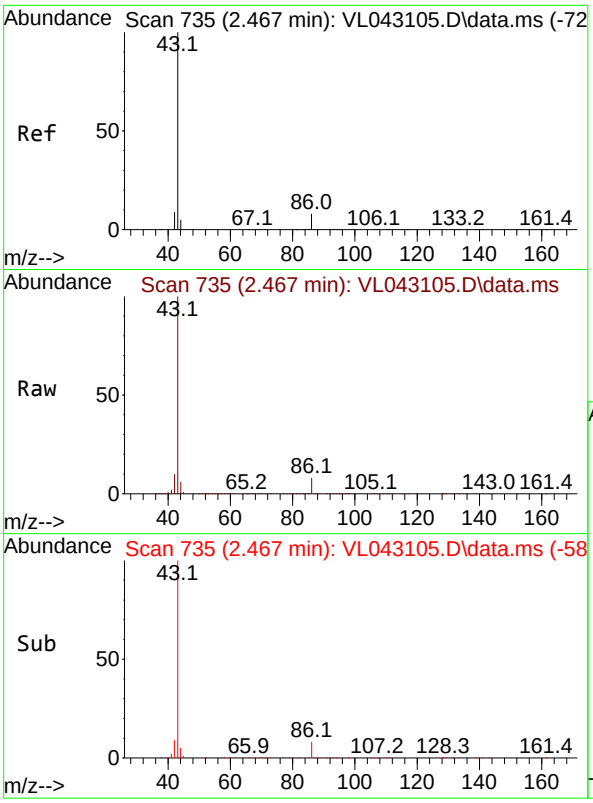


#22
trans-1,2-Dichloroethene
Concen: 8.761 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 96 Resp: 53146

Ion	Ratio	Lower	Upper
96	100		
61	171.3	137.0	205.6
98	56.9	45.5	68.3



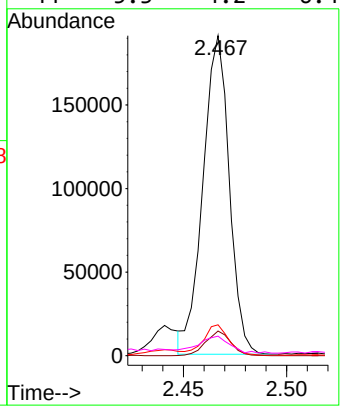


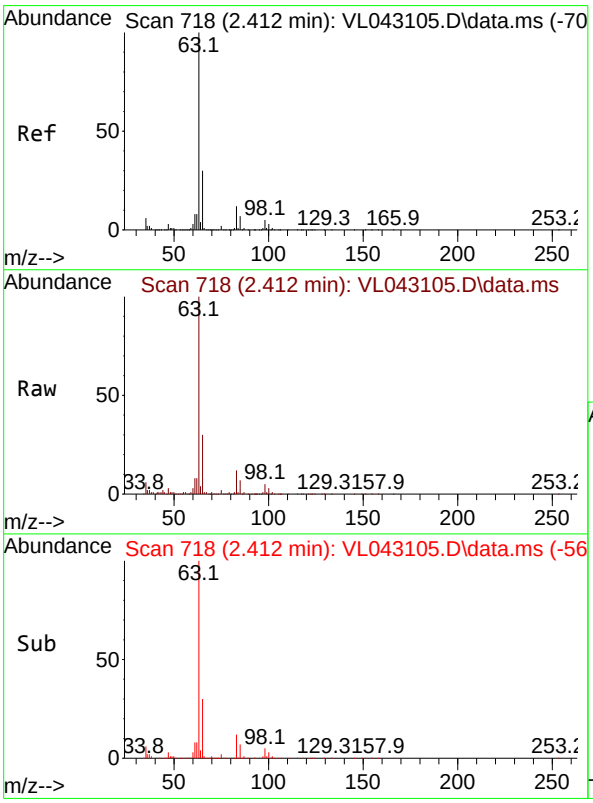
#23
Vinyl Acetate
Concen: 8.218 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 168706

Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.2	9.2
42	9.5	7.6	11.4
44	5.3	4.2	6.4

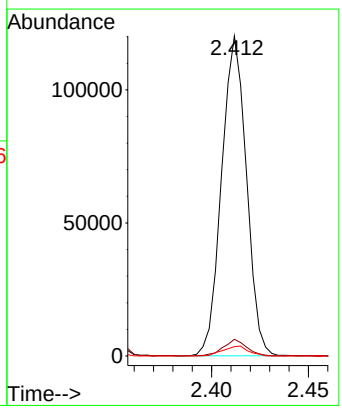


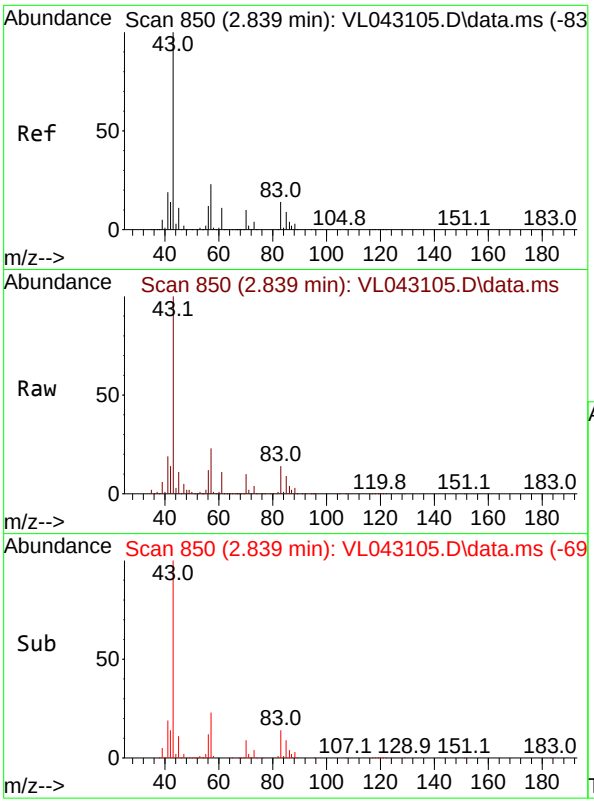


#24
1,1-Dichloroethane
Concen: 9.143 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 63 Resp: 107153

Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.6	7.8
100	2.9	1.5	4.4



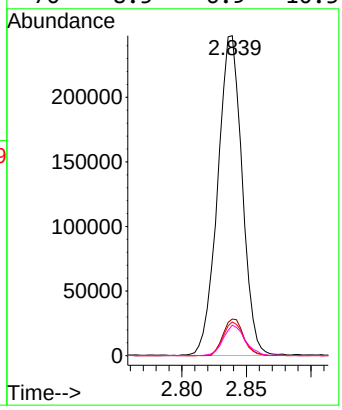


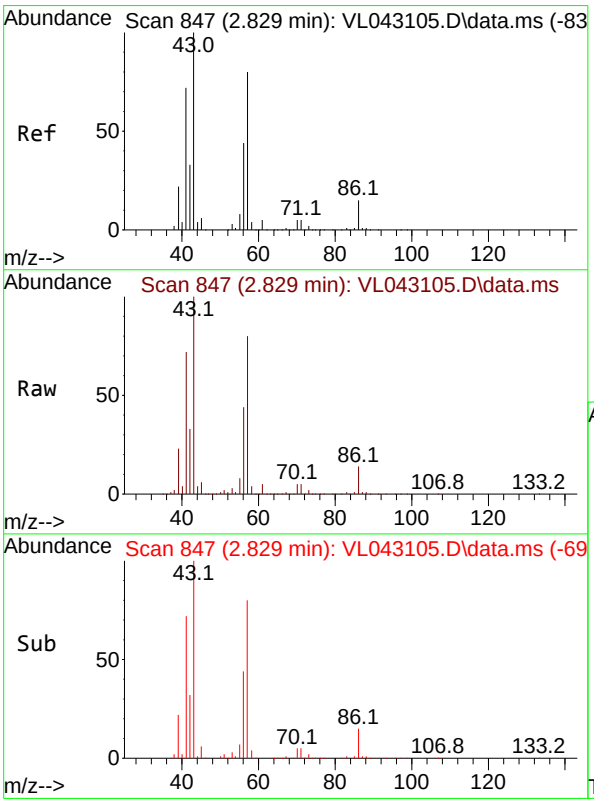
#25
Ethyl Acetate
Concen: 9.371 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 325662

Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	8.8	7.0	10.6
70	8.5	6.9	10.3

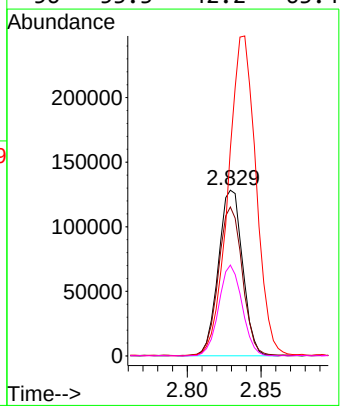


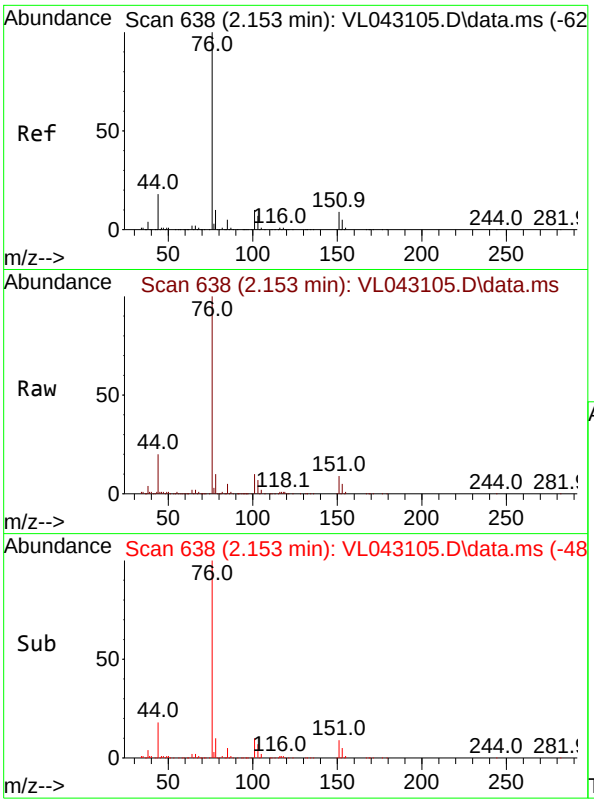


#26
Hexane
Concen: 9.128 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 57 Resp: 146168

Ion	Ratio	Lower	Upper
57	100		
41	90.2	71.4	107.0
43	222.4	178.5	267.7
56	53.3	42.2	63.4



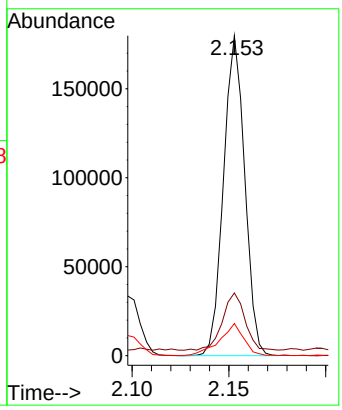


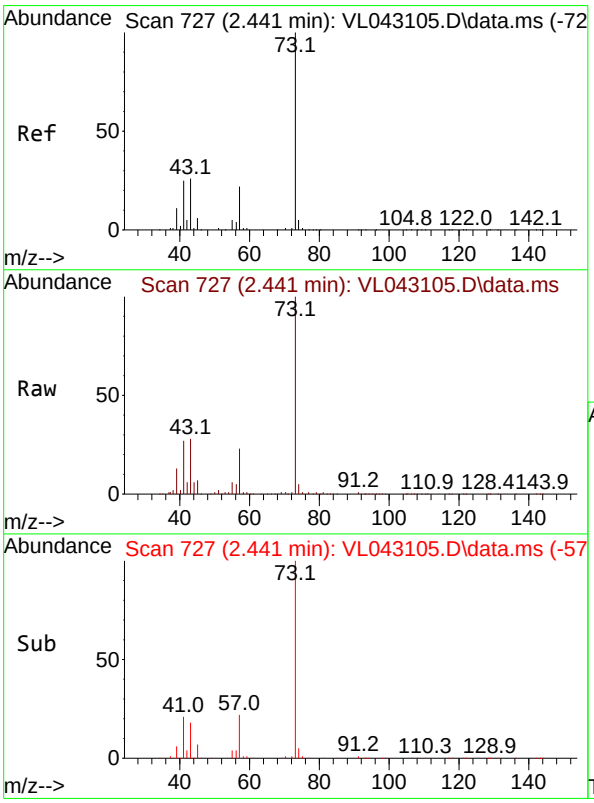
#27
Carbon Disulfide
Concen: 9.319 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 76 Resp: 136729

Ion	Ratio	Lower	Upper
76	100		
44	20.1	16.7	25.1
78	11.5	9.3	13.9

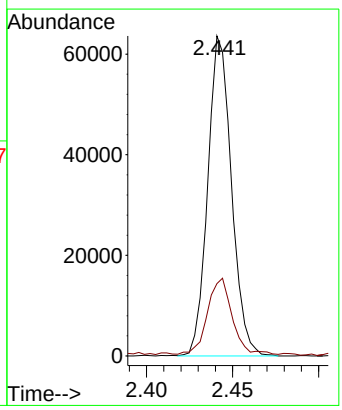


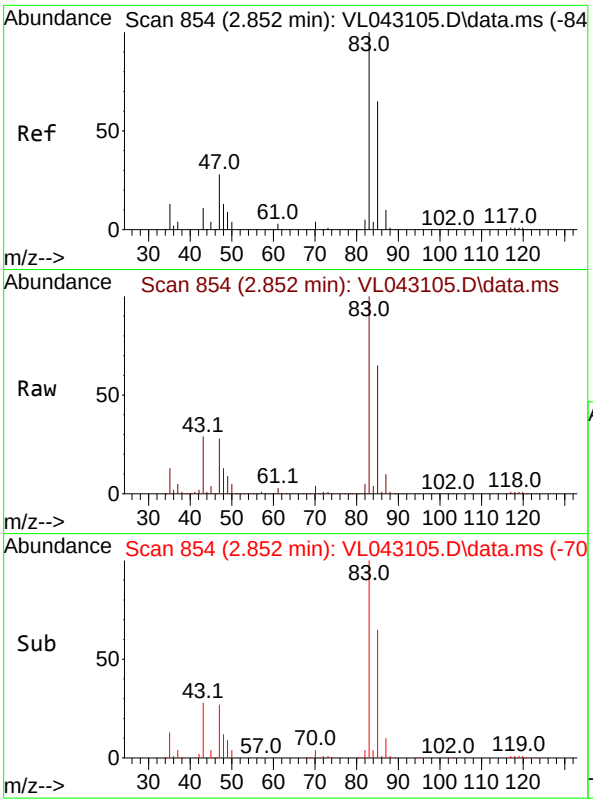


#28
Methyl tert-Butyl Ether
Concen: 8.384 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 73 Resp: 61076

Ion	Ratio	Lower	Upper
73	100		
57	24.8	20.5	30.7



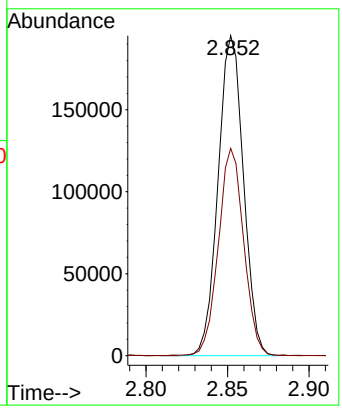


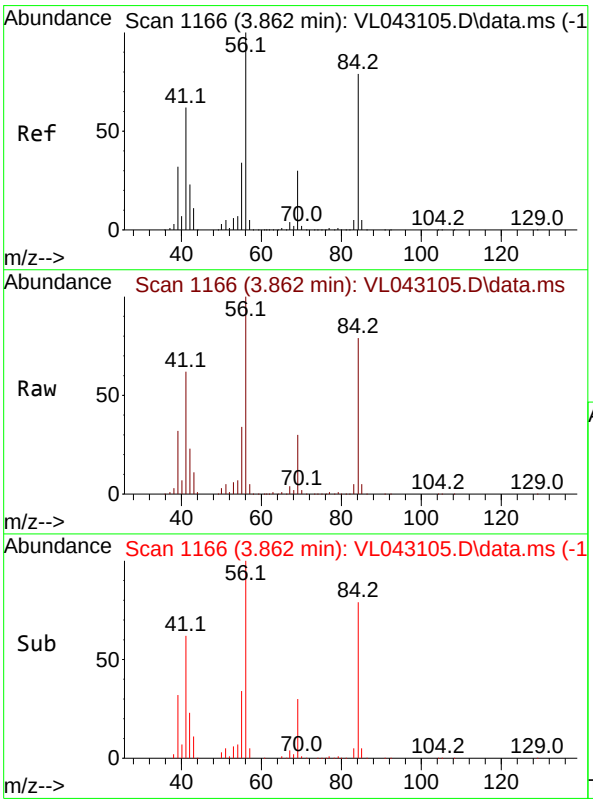
#29
Chloroform
Concen: 9.097 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 211071

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6

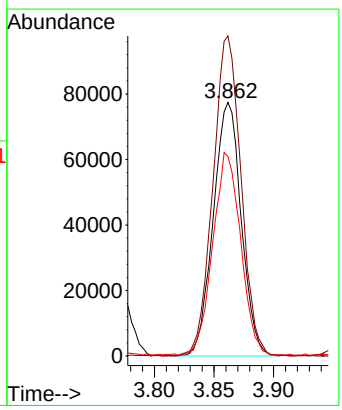


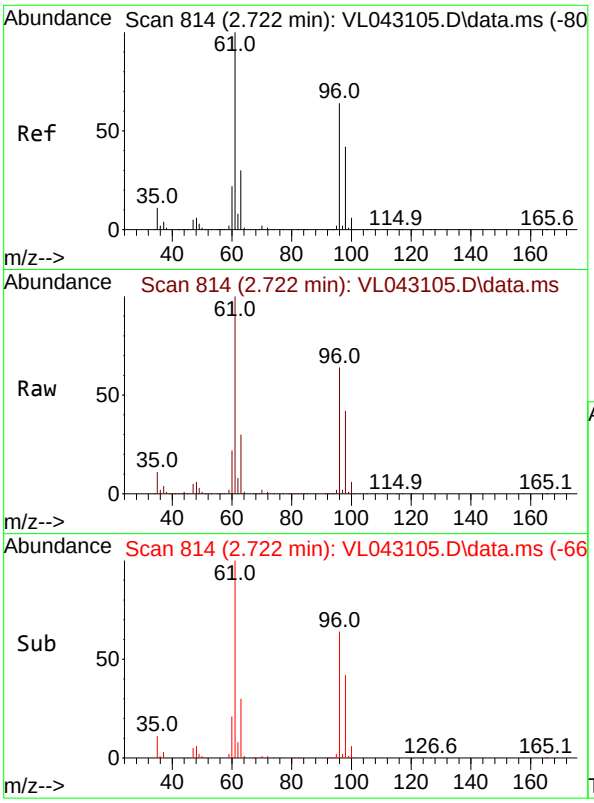


#30
Cyclohexane
Concen: 9.037 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 84 Resp: 126226

Ion	Ratio	Lower	Upper
84	100		
56	126.5	100.9	151.3
41	79.8	63.8	95.6



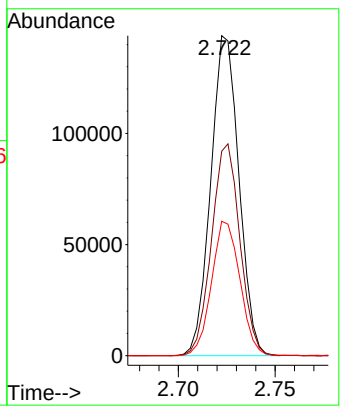


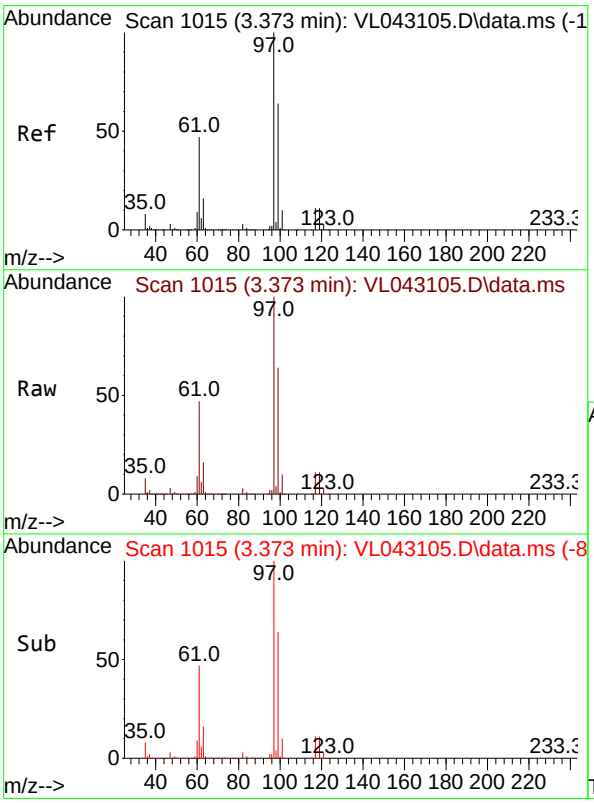
#31
cis-1,2-Dichloroethene
Concen: 9.553 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 61 Resp: 146072

Ion	Ratio	Lower	Upper
61	100		
96	63.8	51.0	76.6
98	41.9	33.5	50.3

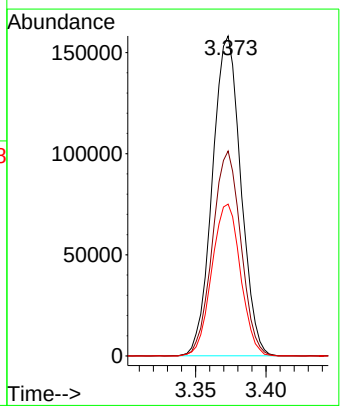


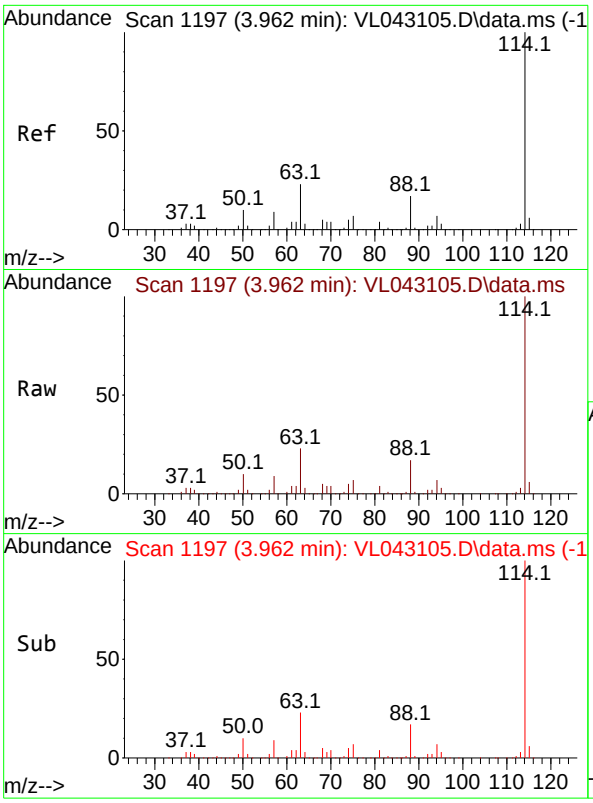


#32
1,1,1-Trichloroethane
Concen: 9.189 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 97 Resp: 222043

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.3	76.9
61	48.0	38.4	57.6



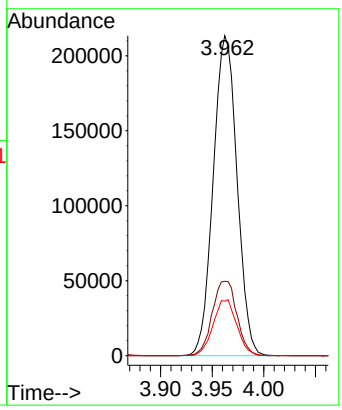


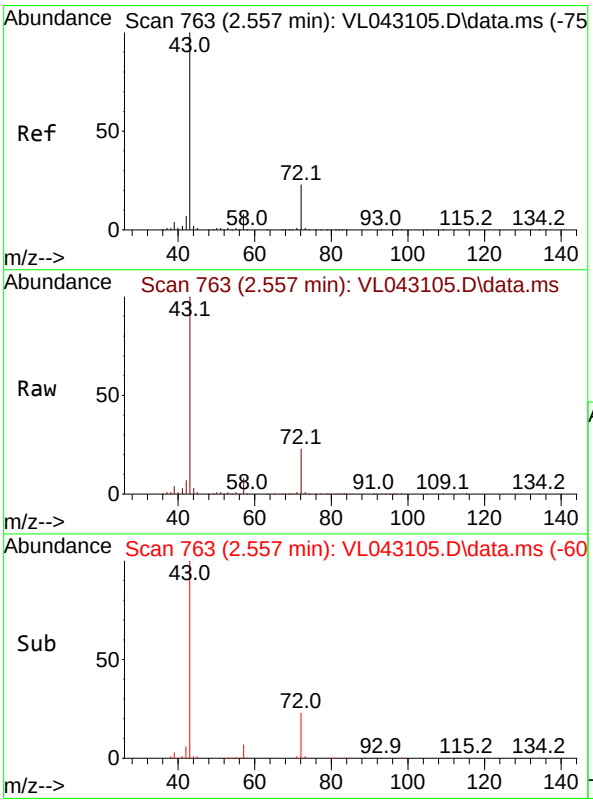
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:114 Resp: 341790

Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.3	28.9
88	17.4	13.9	20.9

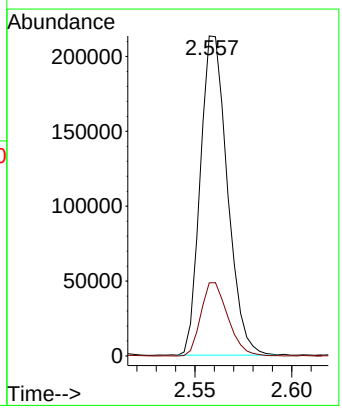


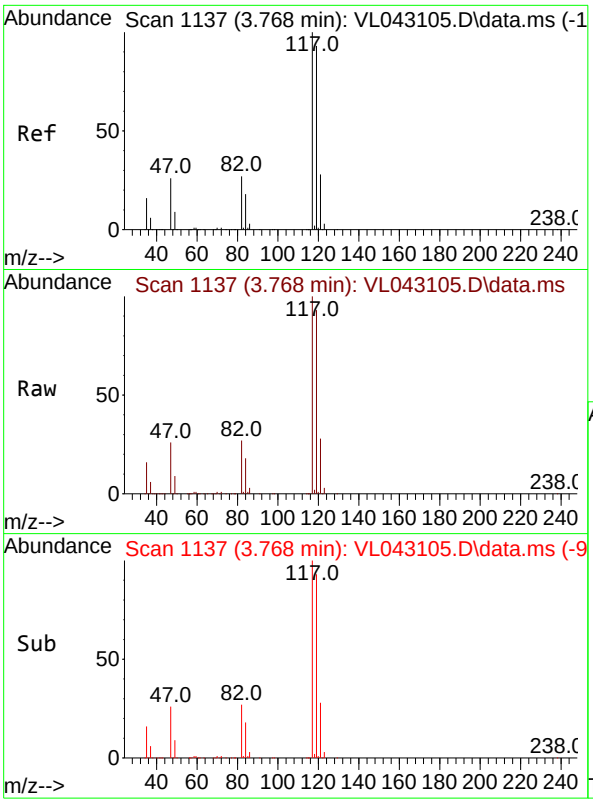


#34
2-Butanone
Concen: 8.971 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 207274

Ion	Ratio	Lower	Upper
43	100		
72	22.8	18.4	27.6



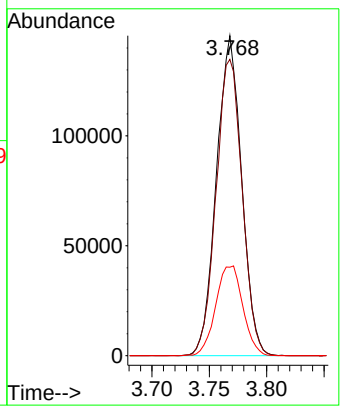


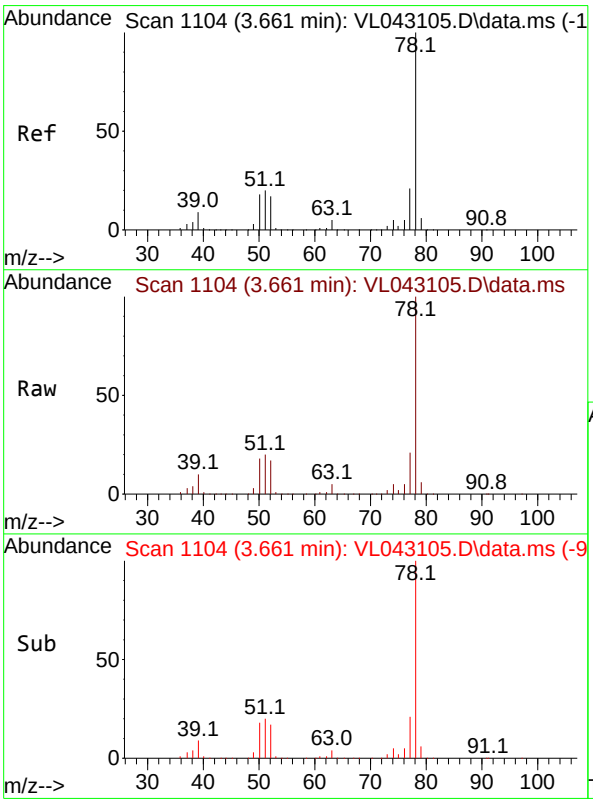
#35
Carbon Tetrachloride
Concen: 9.032 ppbv
RT: 3.768 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 221937

Ion	Ratio	Lower	Upper
117	100		
119	92.6	74.1	111.1
121	27.7	22.2	33.2

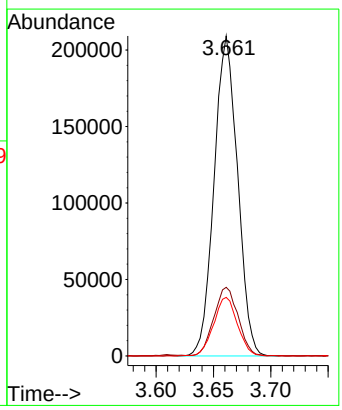


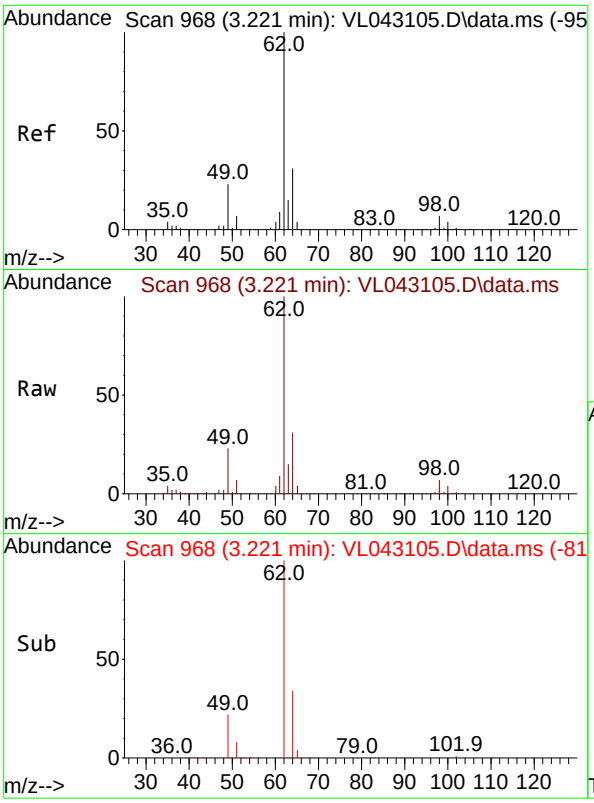


#36
Benzene
Concen: 9.246 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 78 Resp: 297653

Ion	Ratio	Lower	Upper
78	100		
77	21.3	17.0	25.6
50	18.3	14.6	22.0



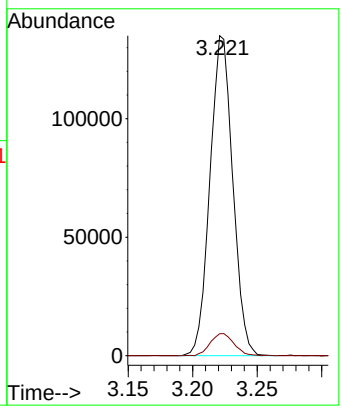


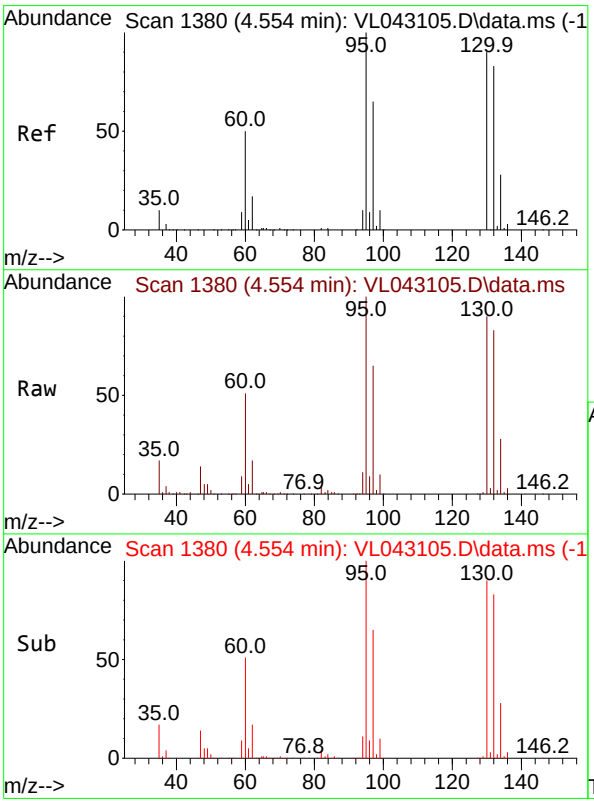
#37
1,2-Dichloroethane
Concen: 8.946 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 165898

Ion	Ratio	Lower	Upper
62	100		
98	7.2	5.8	8.6

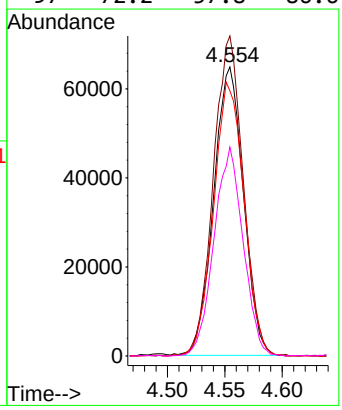


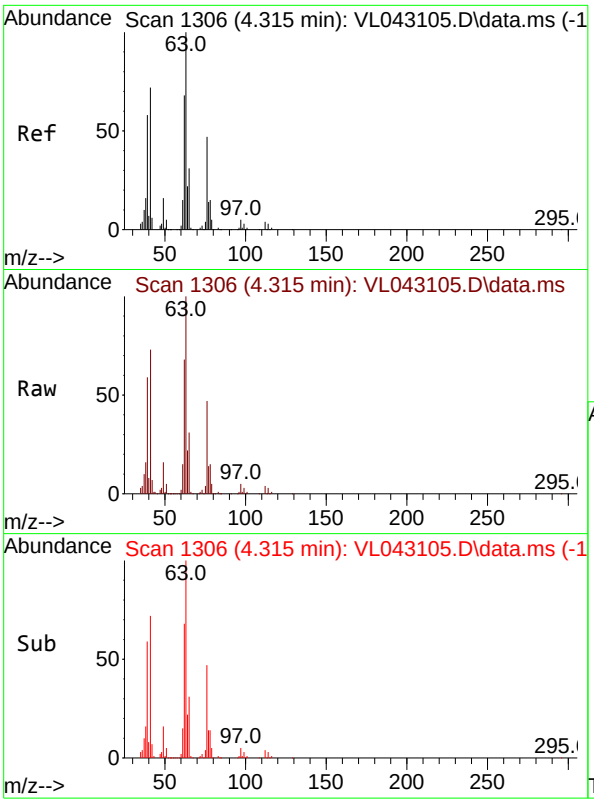


#38
Trichloroethene
Concen: 8.708 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:130 Resp: 116947

Ion	Ratio	Lower	Upper
130	100		
95	110.8	88.6	133.0
132	91.7	73.4	110.0
97	72.2	57.8	86.6



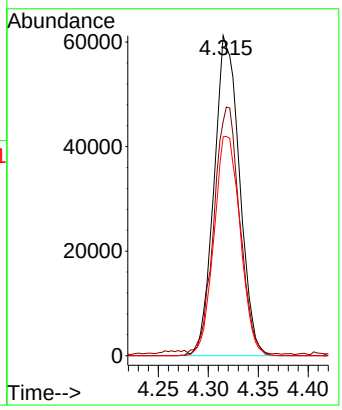


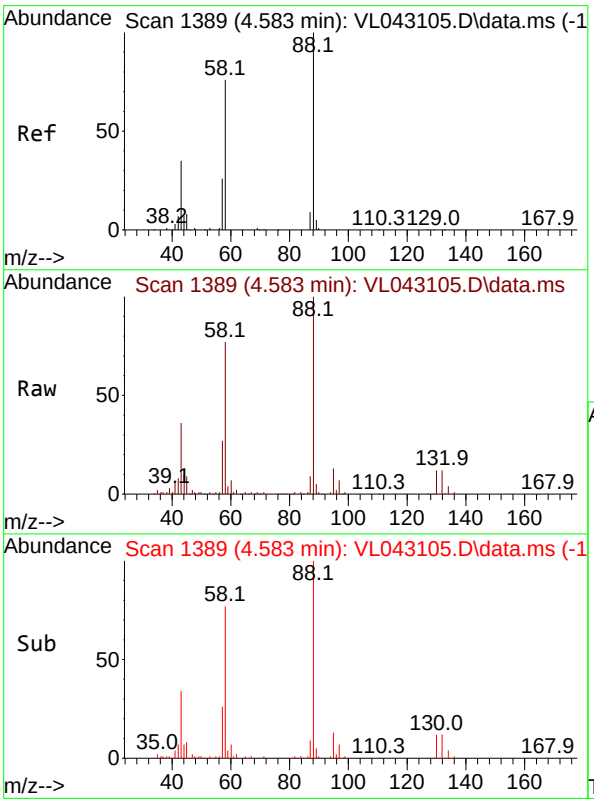
#39
1,2-Dichloropropane
Concen: 9.207 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 63 Resp: 108446

Ion	Ratio	Lower	Upper
63	100		
41	72.5	58.0	87.0
62	68.4	54.7	82.1

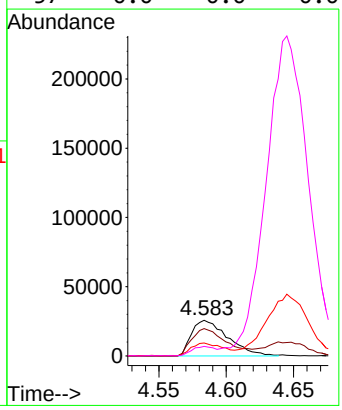


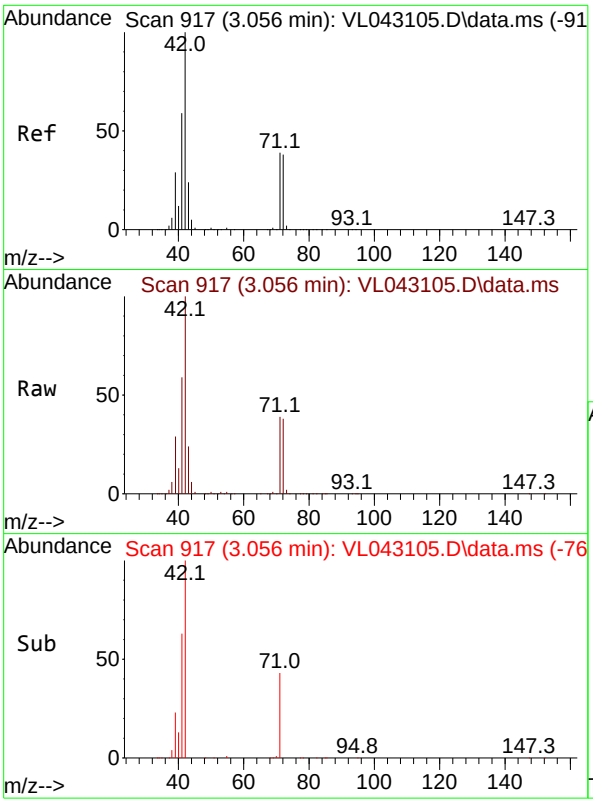


#40
1,4-Dioxane
Concen: 9.153 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 88 Resp: 48201

Ion	Ratio	Lower	Upper
88	100		
58	74.3	61.1	91.7
43	33.3	24.0	36.0
57	0.0	0.0	0.0



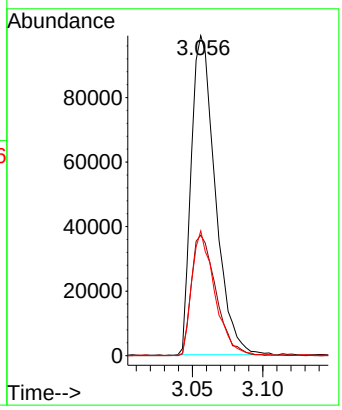


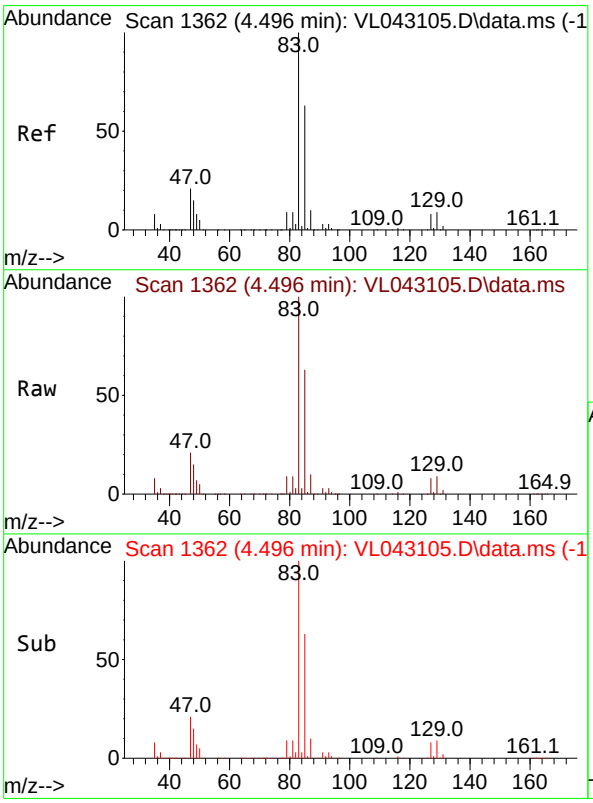
#41
Tetrahydrofuran
Concen: 9.076 ppbv
RT: 3.056 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 42 Resp: 117069

Ion	Ratio	Lower	Upper
42	100		
72	39.1	31.3	46.9
71	37.8	30.4	45.6

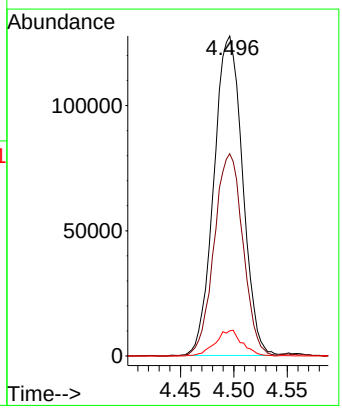


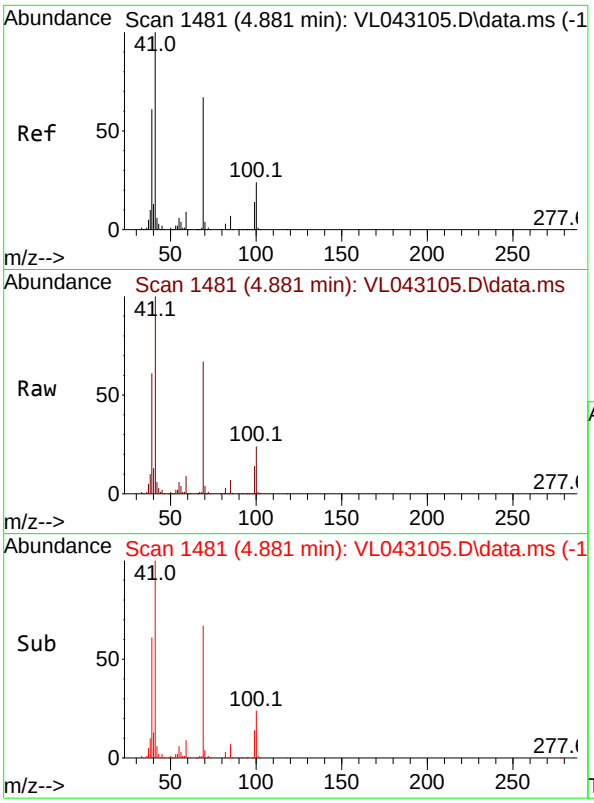


#42
Bromodichloromethane
Concen: 9.286 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 83 Resp: 238353

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	7.9	6.3	9.5



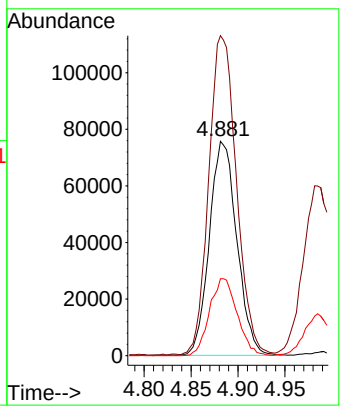


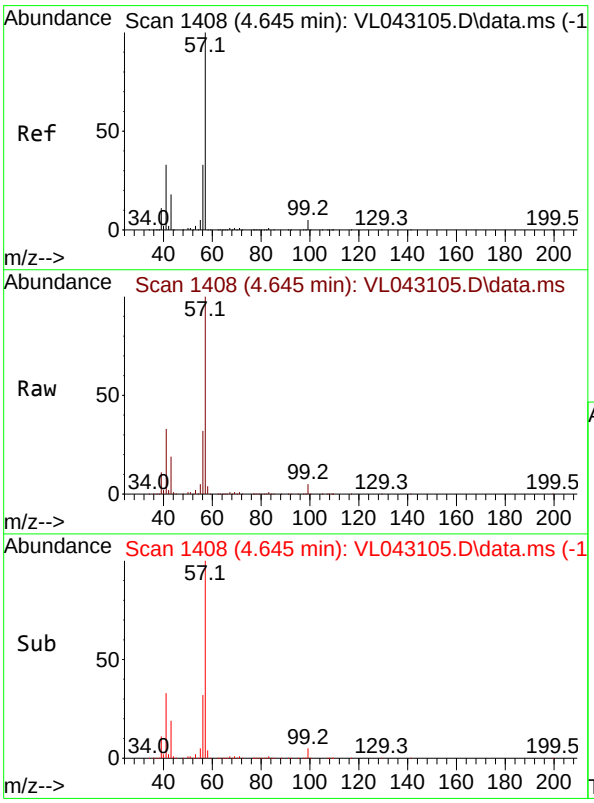
#43
Methyl Methacrylate
Concen: 9.371 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 153927

Ion	Ratio	Lower	Upper
69	100		
41	149.8	120.5	180.7
100	36.2	29.0	43.4

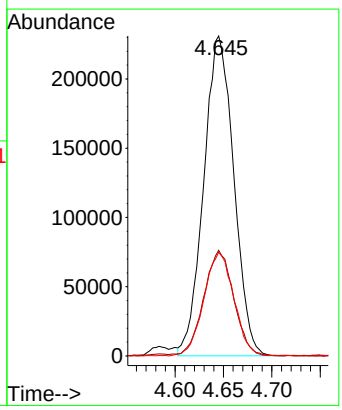


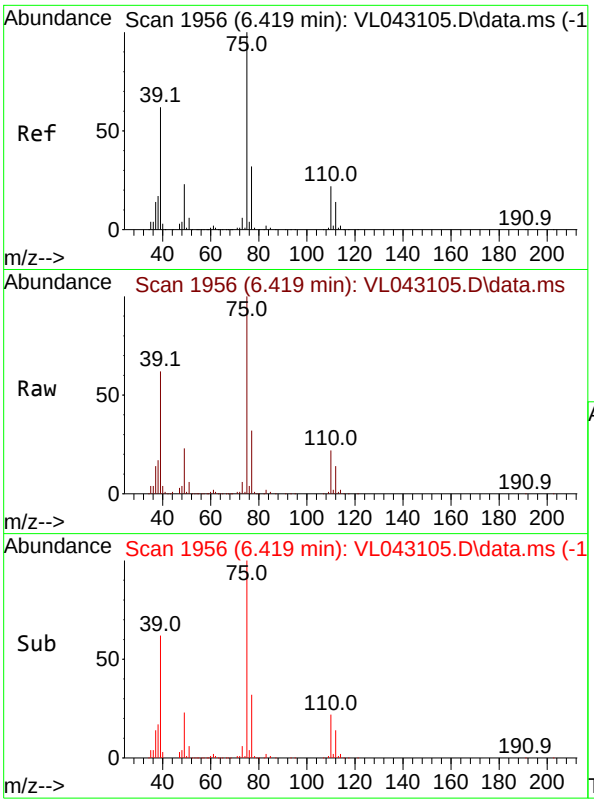


#44
2,2,4-Trimethylpentane
Concen: 9.273 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 57 Resp: 499148

Ion	Ratio	Lower	Upper
57	100		
41	33.2	26.3	39.5
56	32.1	25.9	38.9



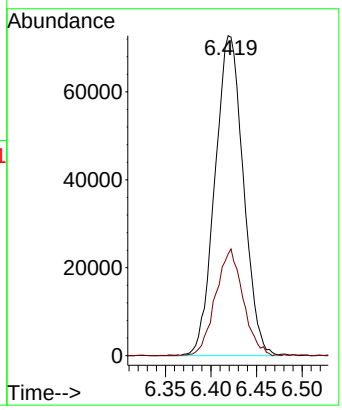


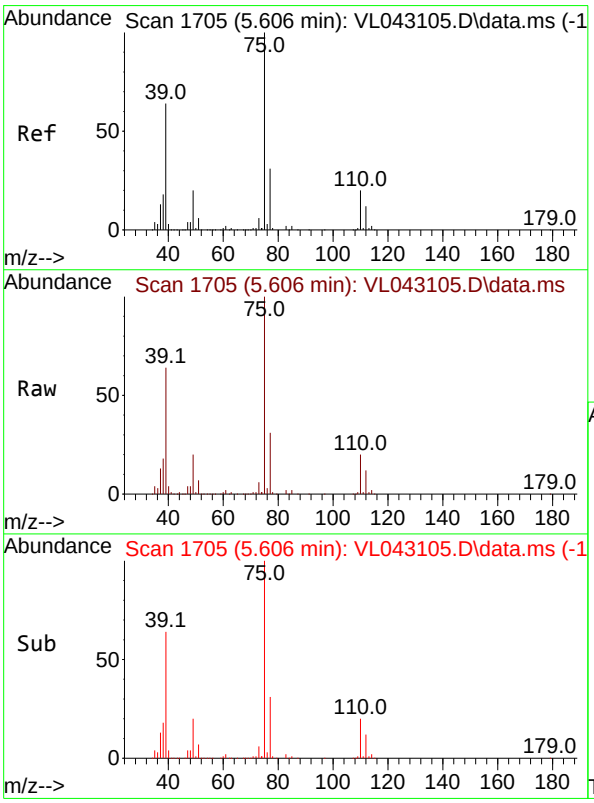
#45
t-1,3-Dichloropropene
Concen: 9.620 ppbv
RT: 6.419 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 157856

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2

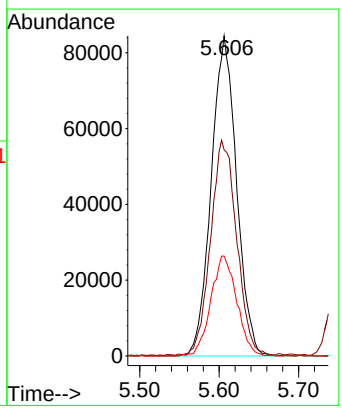


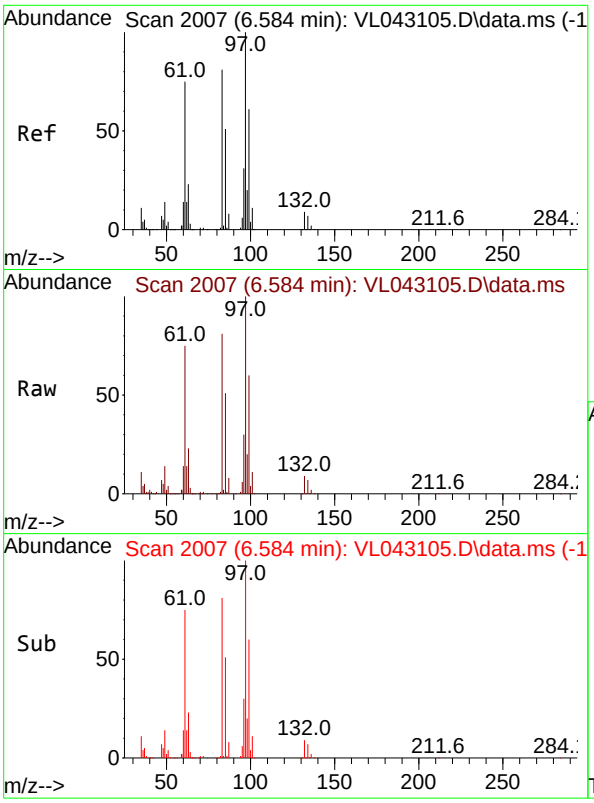


#46
cis-1,3-Dichloropropene
Concen: 9.525 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 75 Resp: 186533

Ion	Ratio	Lower	Upper
75	100		
39	63.8	51.0	76.6
77	31.2	25.0	37.4



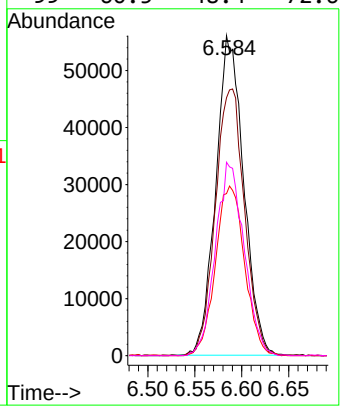


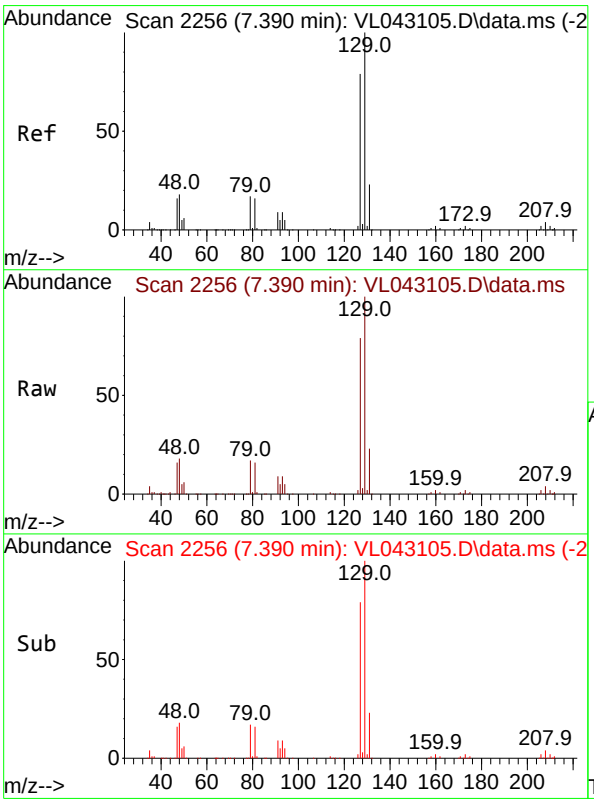
#47
1,1,2-Trichloroethane
Concen: 9.082 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 97 Resp: 115419

Ion	Ratio	Lower	Upper
97	100		
83	80.7	64.6	96.8
85	50.7	40.6	60.8
99	60.5	48.4	72.6

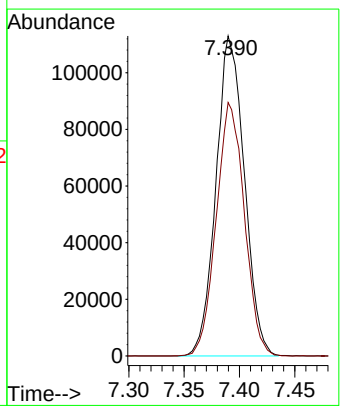


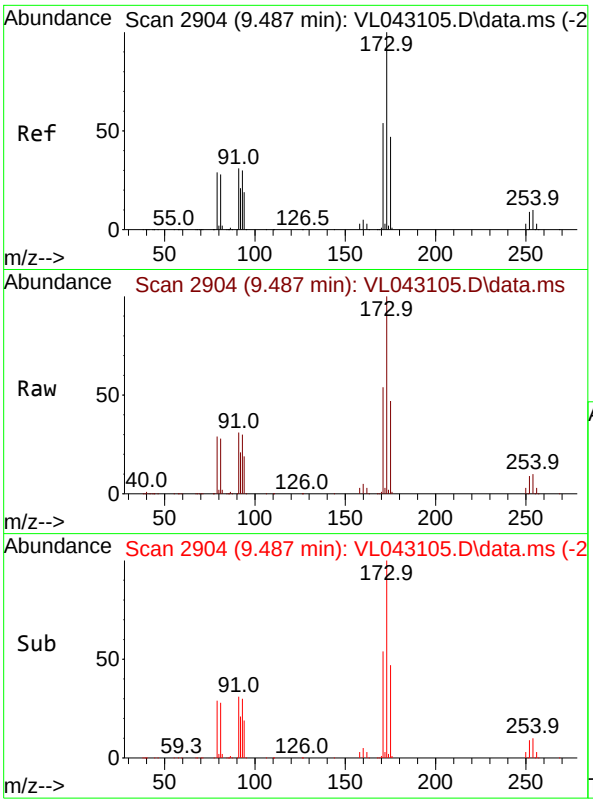


#48
Dibromochloromethane
Concen: 9.476 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:129 Resp: 201349

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9



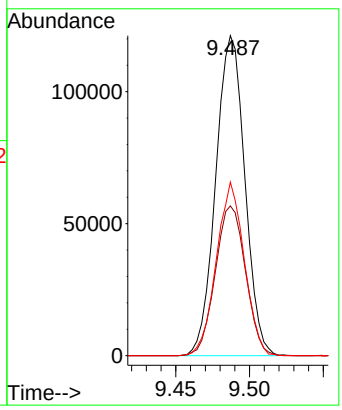


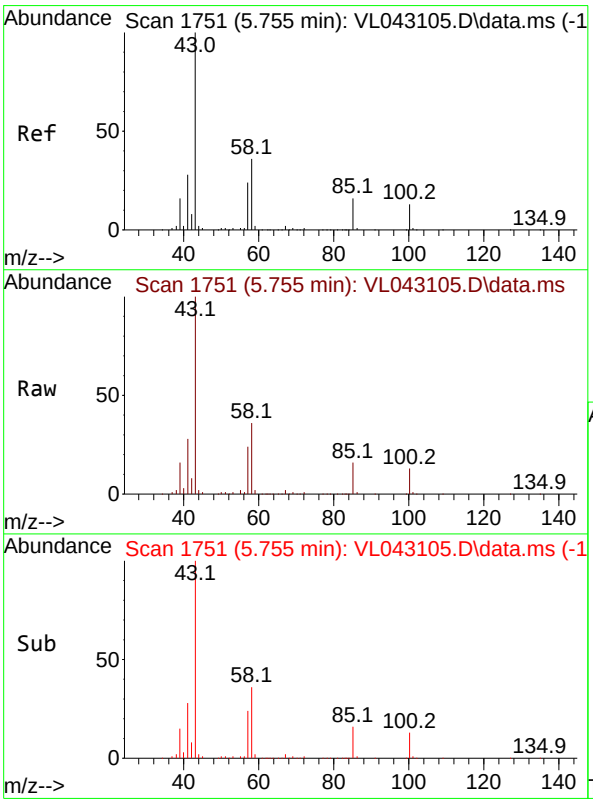
#49
Bromoform
Concen: 9.633 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:173 Resp: 166377

Ion	Ratio	Lower	Upper
173	100		
175	48.5	38.8	58.2
171	52.1	41.7	62.5

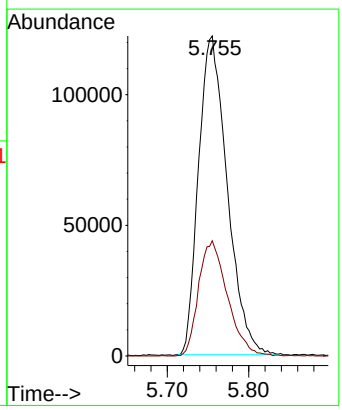


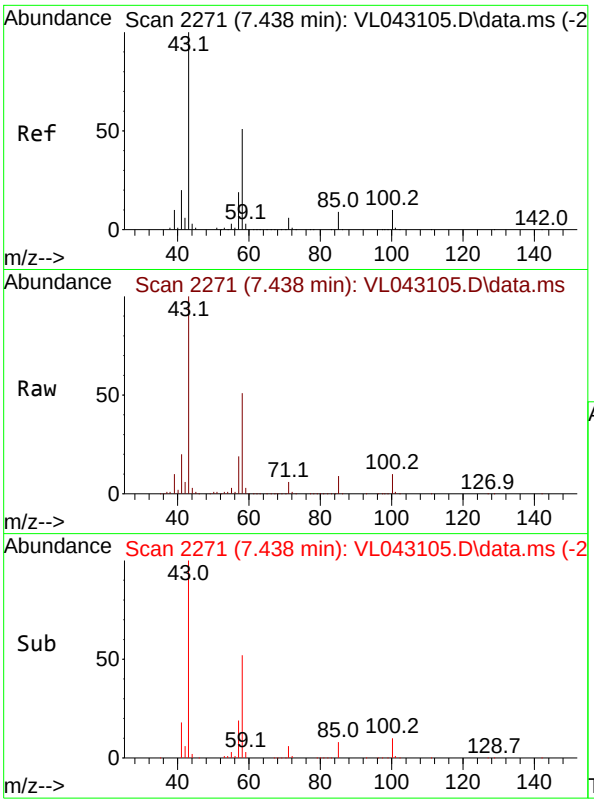


#50
4-Methyl-2-Pentanone
Concen: 9.362 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 298401

Ion	Ratio	Lower	Upper
43	100		
58	36.3	29.1	43.7



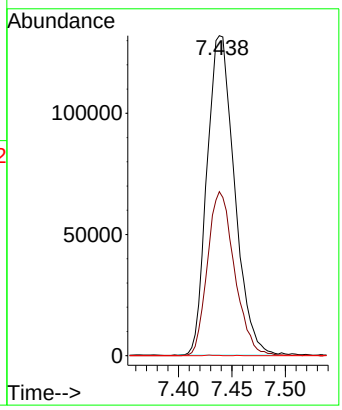


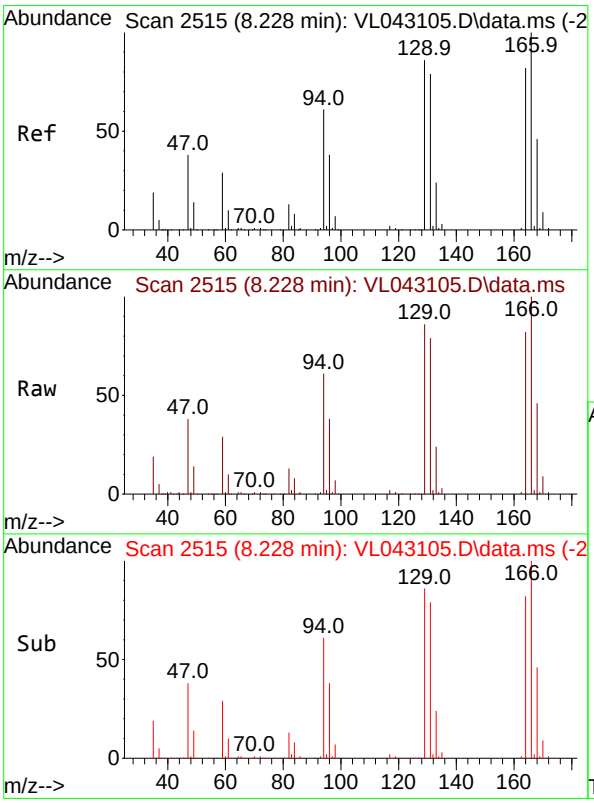
#51
2-Hexanone
Concen: 9.940 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 236391

Ion	Ratio	Lower	Upper
43	100		
58	50.6	40.4	60.6
98	0.1	0.1	0.1

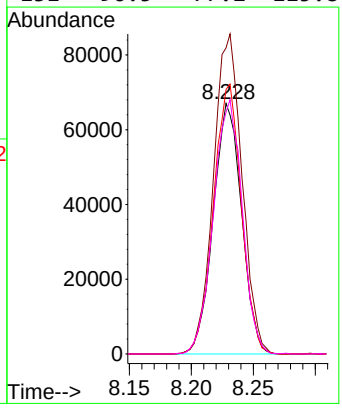


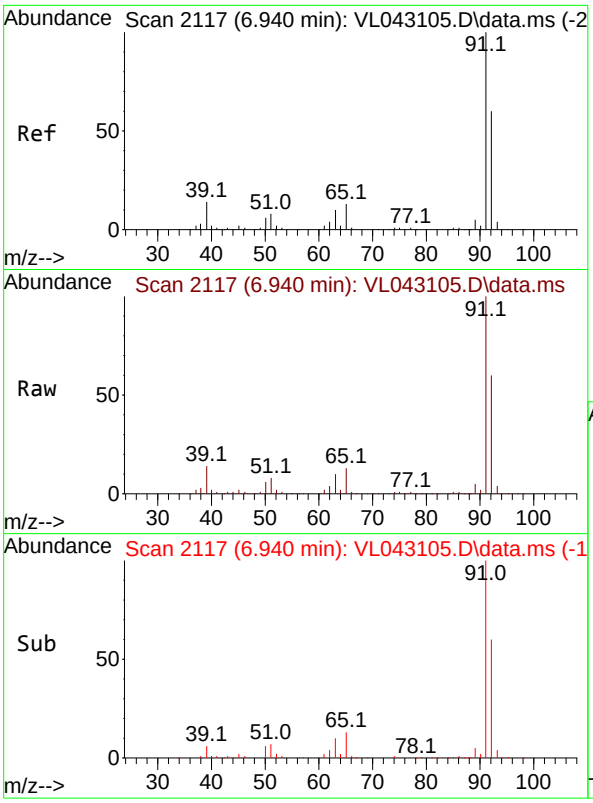


#52
Tetrachloroethene
Concen: 9.192 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:164 Resp: 106710

Ion	Ratio	Lower	Upper
164	100		
166	122.0	97.6	146.4
129	105.6	84.5	126.7
131	96.5	77.2	115.8



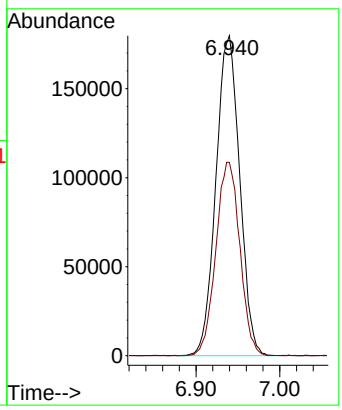


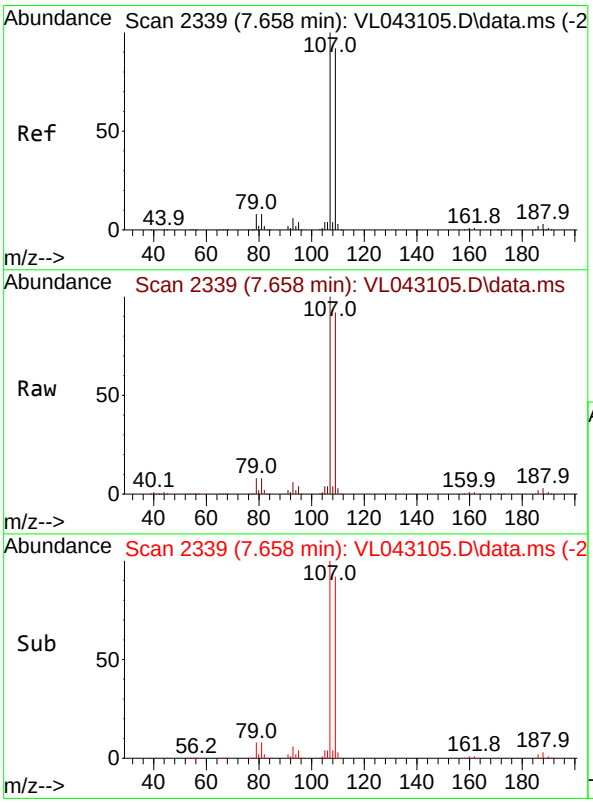
#53
Toluene
Concen: 9.266 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 354007

Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.8	73.2

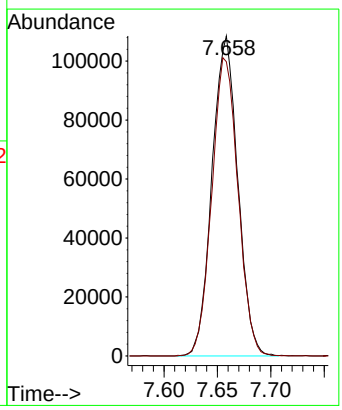


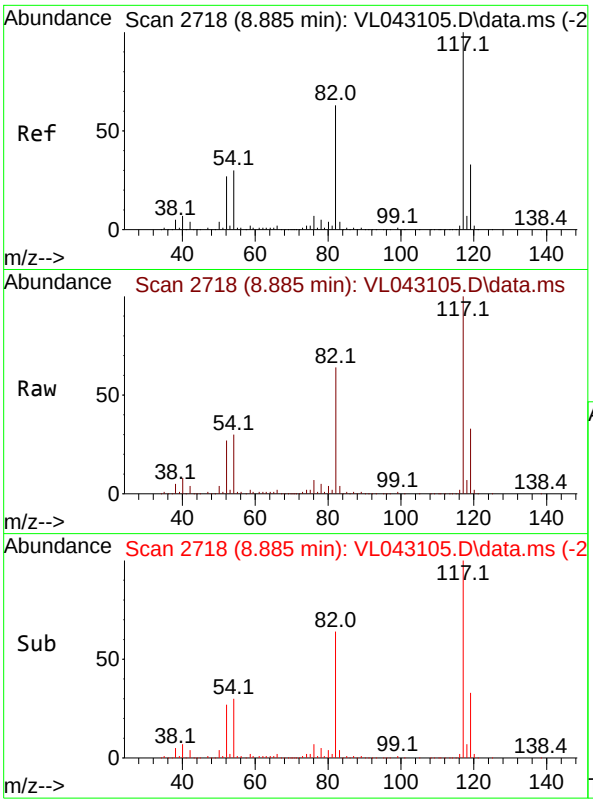


#54
1,2-Dibromoethane
Concen: 9.080 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:107 Resp: 182074

Ion	Ratio	Lower	Upper
107	100		
109	91.8	73.4	110.2



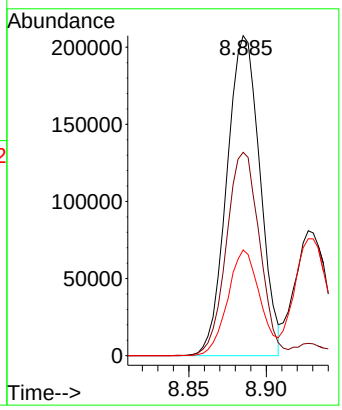


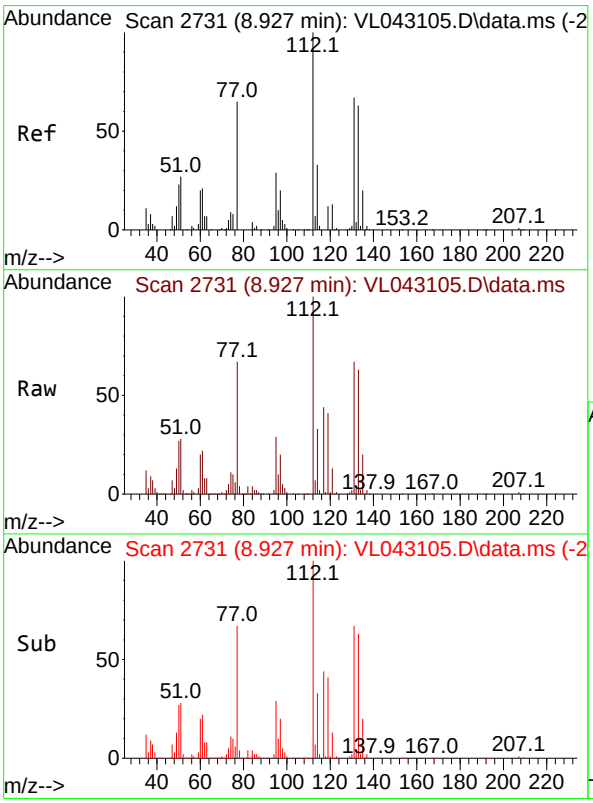
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 309230

Ion	Ratio	Lower	Upper
117	100		
82	67.3	53.8	80.8
119	33.4	25.4	38.0

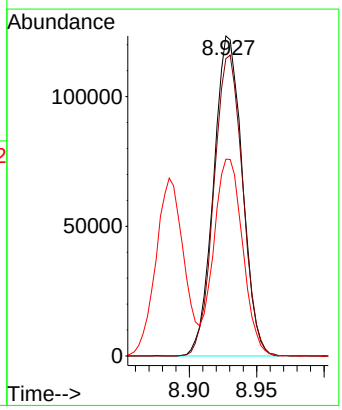


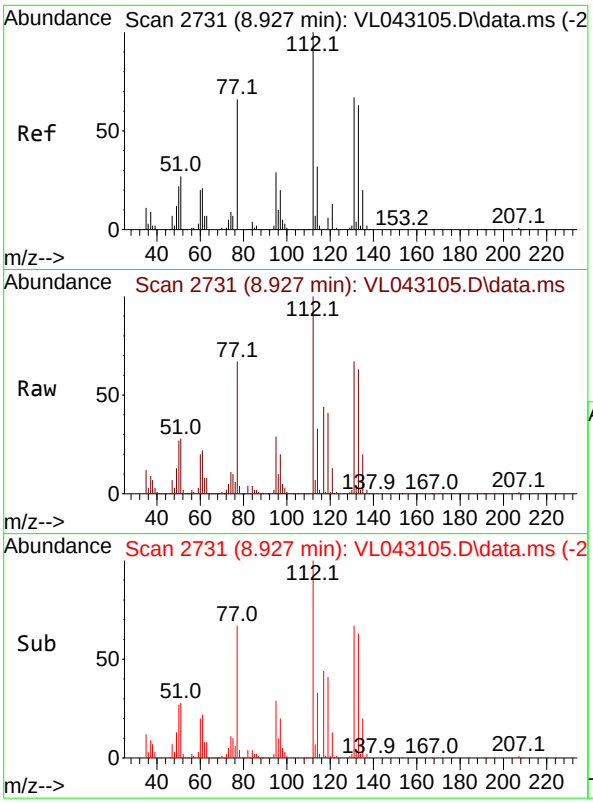


#56
1,1,1,2-Tetrachloroethane
Concen: 9.367 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:131 Resp: 182585

Ion	Ratio	Lower	Upper
131	100		
133	94.6	75.7	113.5
119	63.3	50.6	76.0



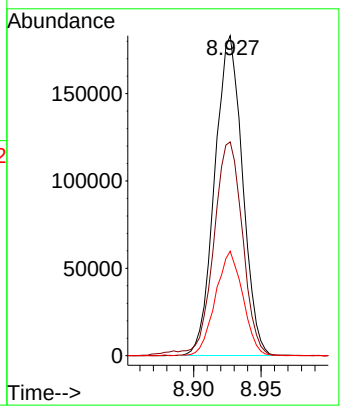


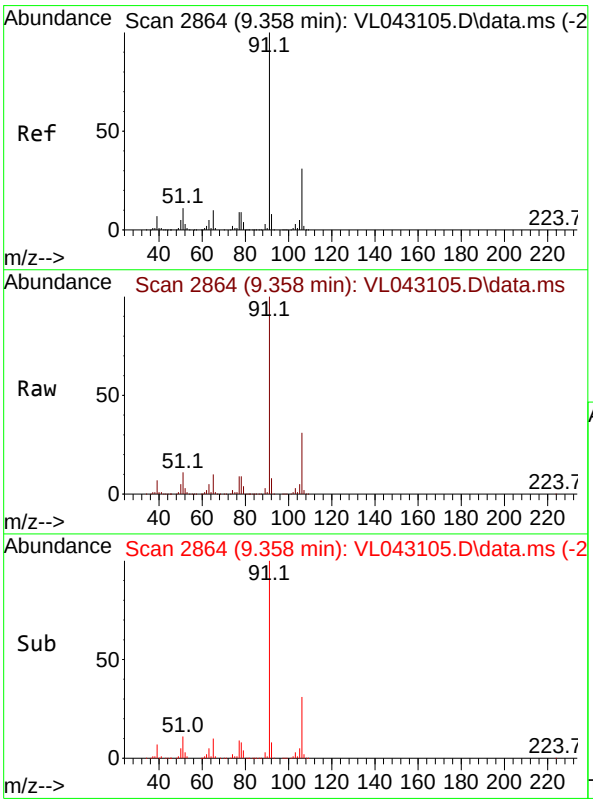
#57
Chlorobenzene
Concen: 9.076 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:112 Resp: 262566

Ion	Ratio	Lower	Upper
112	100		
77	66.6	53.3	79.9
114	32.5	29.3	35.8

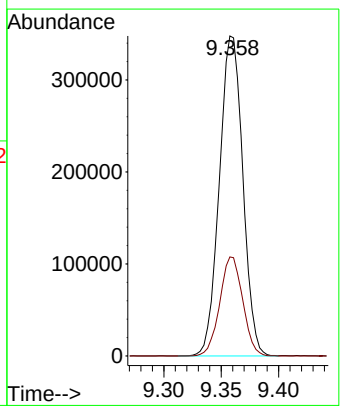


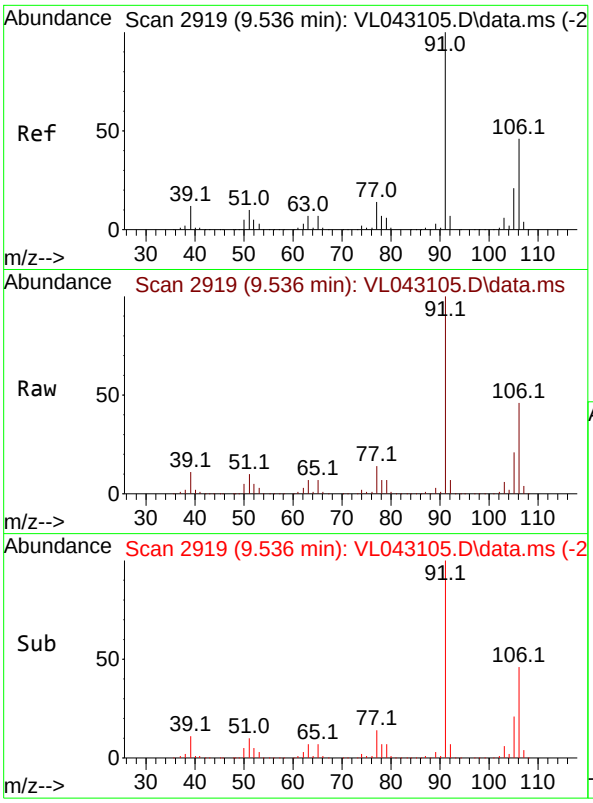


#58
Ethyl Benzene
Concen: 9.241 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 494344

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.8	37.2



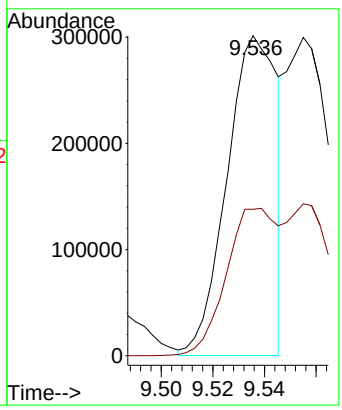


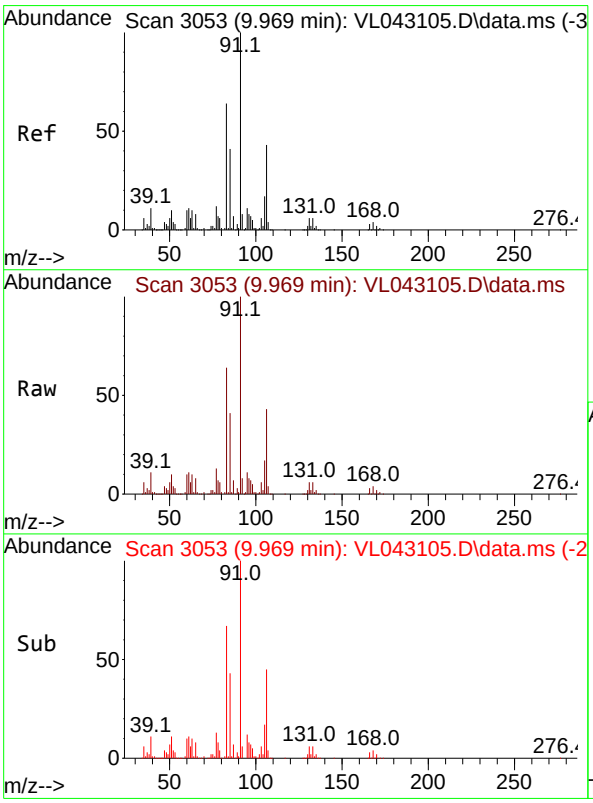
#59
m/p-Xylene
Concen: 9.529 ppbv
RT: 9.536 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 403670

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

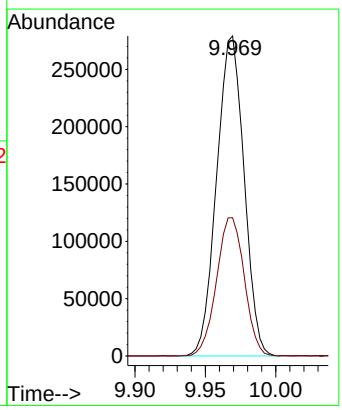


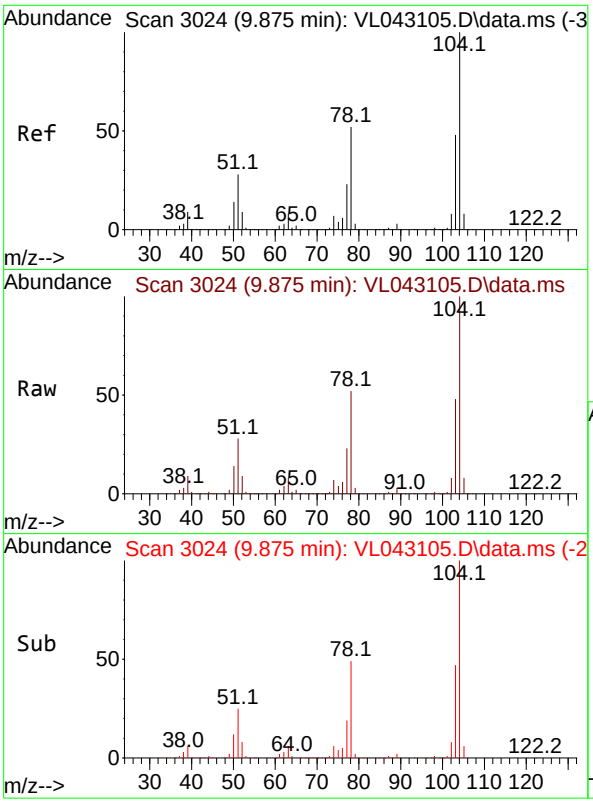


#60
o-Xylene
Concen: 9.053 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 378462

Ion	Ratio	Lower	Upper
91	100		
106	43.9	21.9	65.8



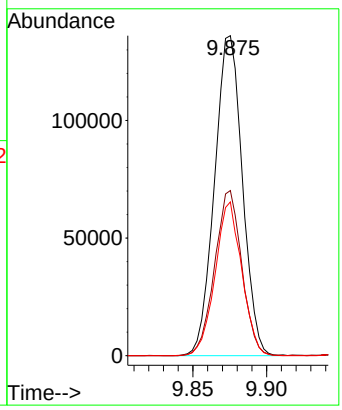


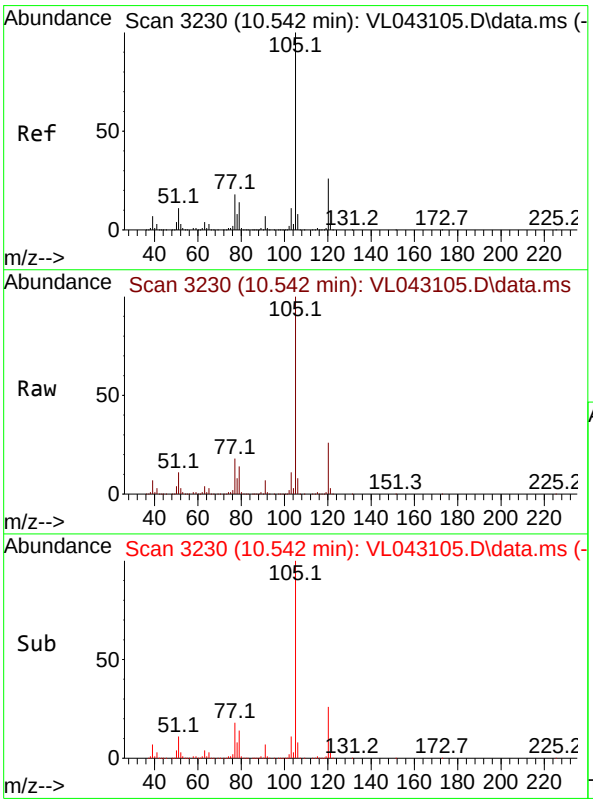
#61
Styrene
Concen: 9.477 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 178859

Ion	Ratio	Lower	Upper
104	100		
78	50.2	40.2	60.2
103	46.1	36.9	55.3

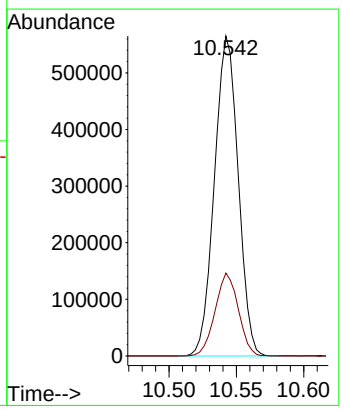


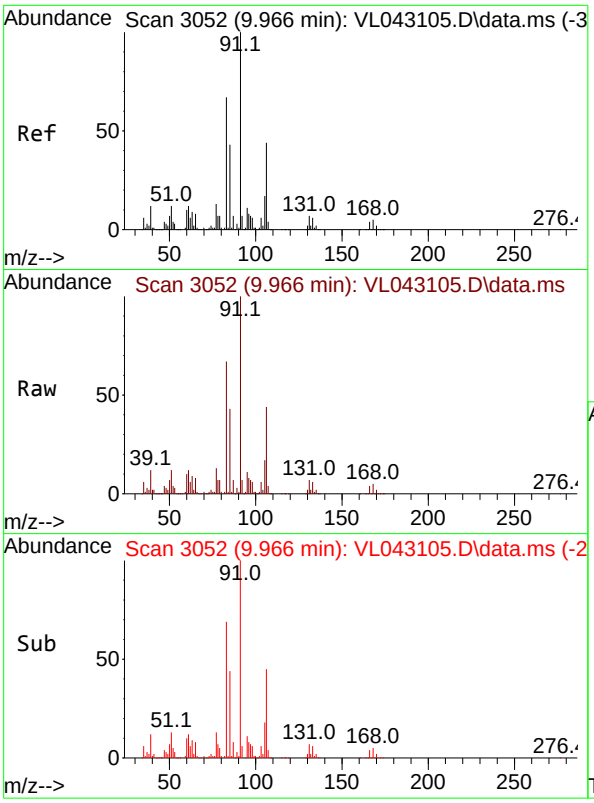


#62
Isopropylbenzene
Concen: 9.173 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 692992

Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.2	30.4



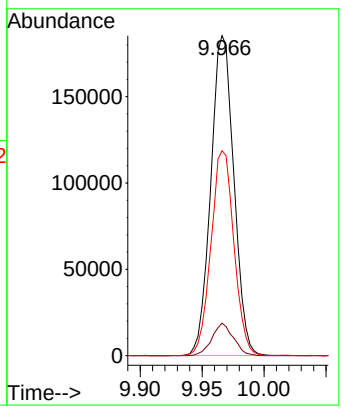


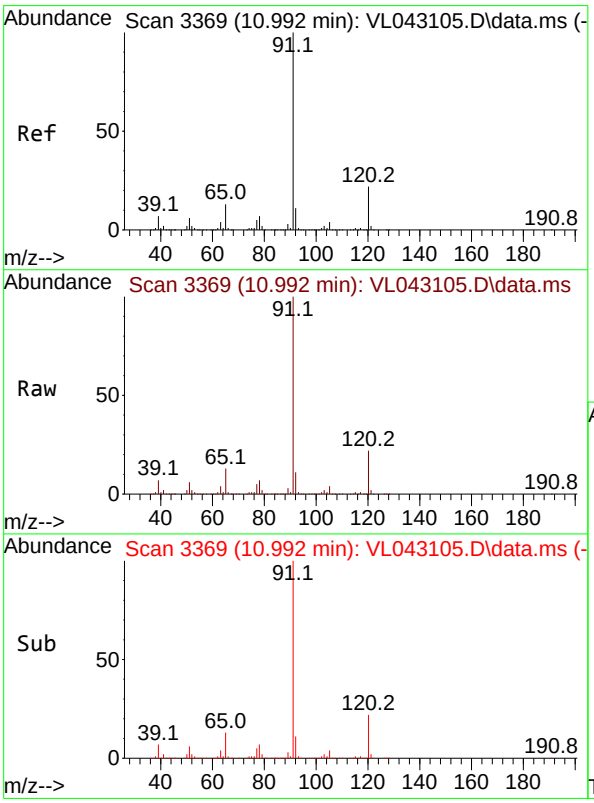
#63
1,1,2,2-Tetrachloroethane
Concen: 8.582 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 240245

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.0	32.0	96.0

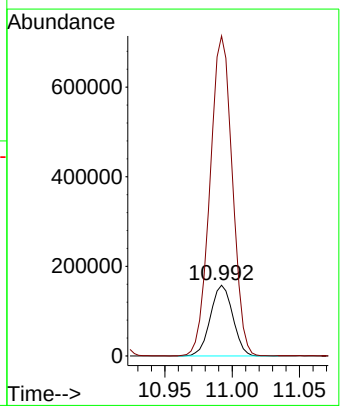


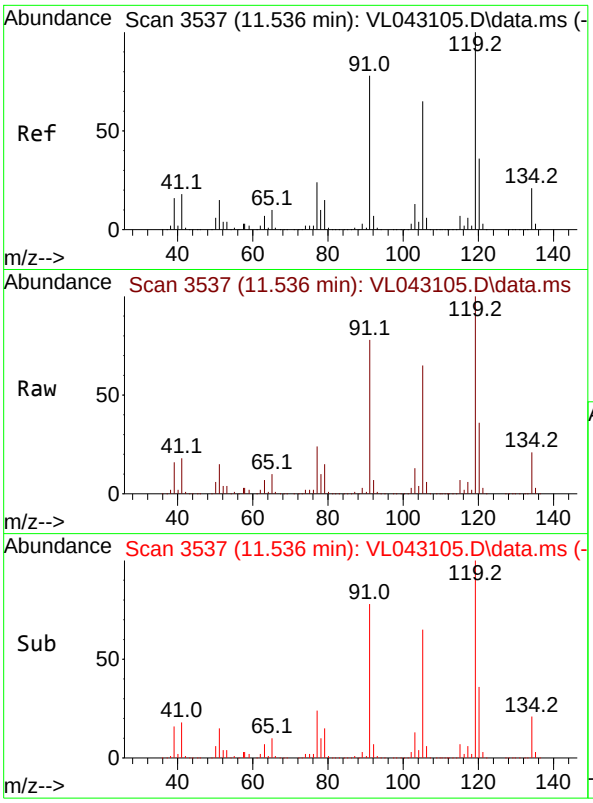


#64
n-propylbenzene
Concen: 9.112 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:120 Resp: 182233

Ion	Ratio	Lower	Upper
120	100		
91	452.0	361.6	542.4



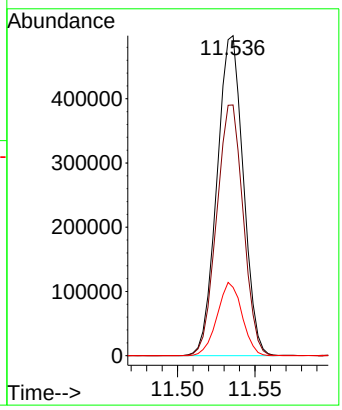


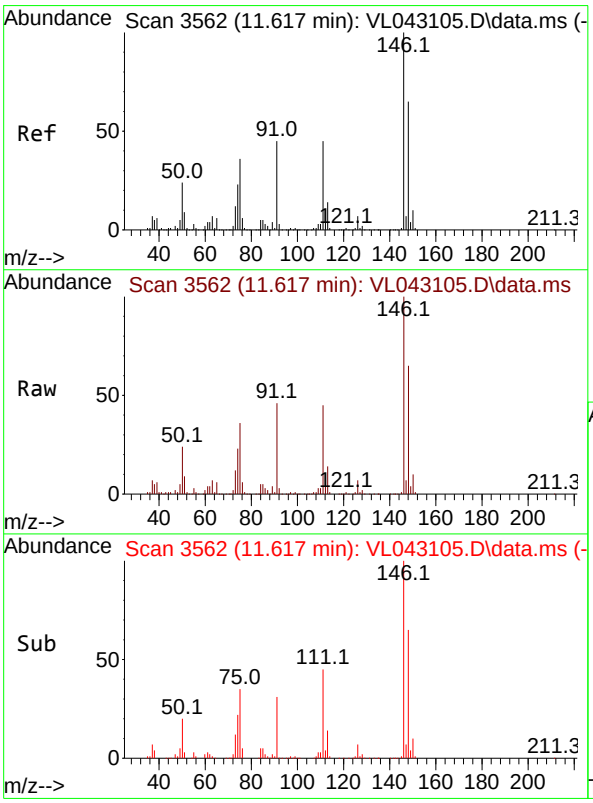
#65
tert-Butylbenzene
Concen: 8.810 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 587750

Ion	Ratio	Lower	Upper
119	100		
91	79.1	63.4	95.0
134	21.6	17.3	25.9

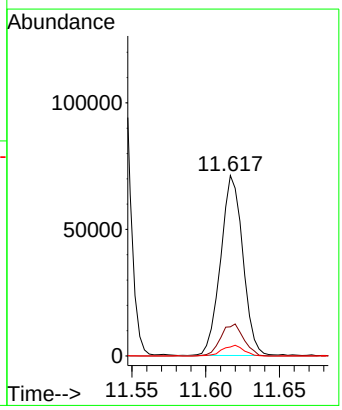


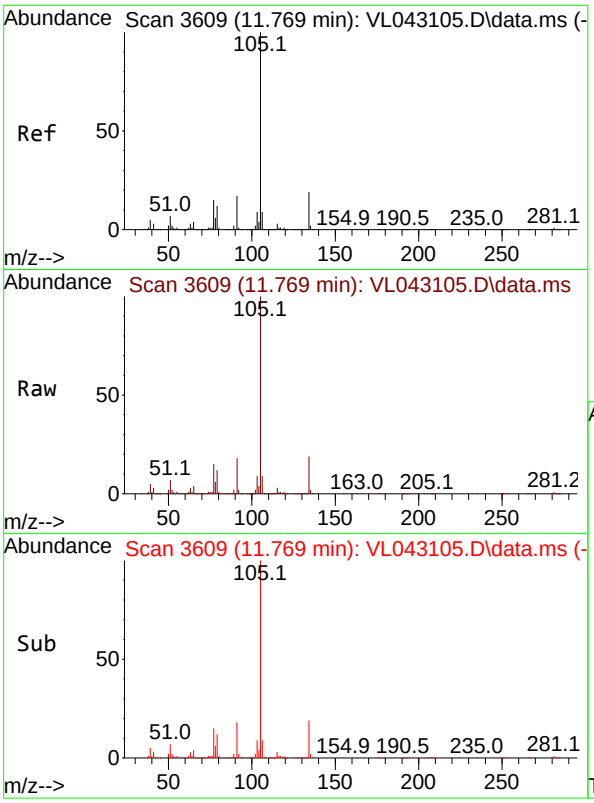


#66
Benzyl Chloride
Concen: 10.009 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 74574

Ion	Ratio	Lower	Upper
91	100		
126	18.3	14.6	22.0
128	5.7	4.6	6.8



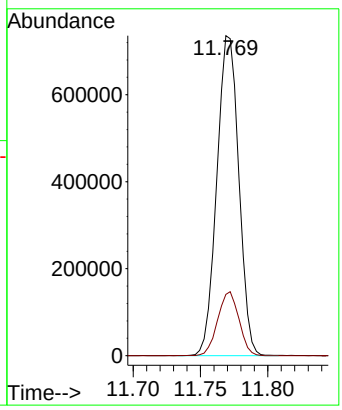


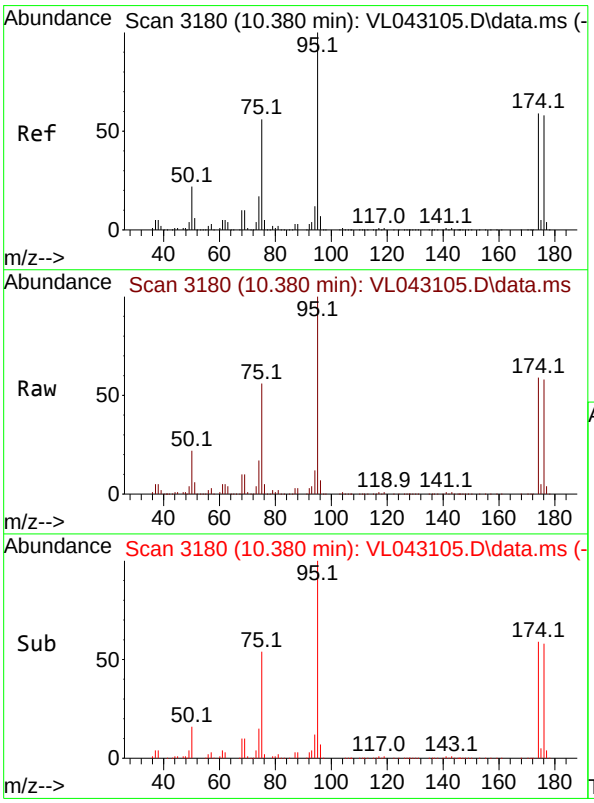
#67
sec-Butylbenzene
Concen: 8.809 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 834052

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.5	23.3

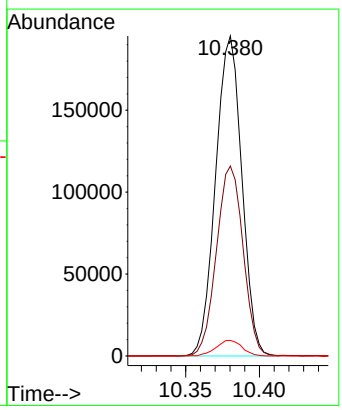


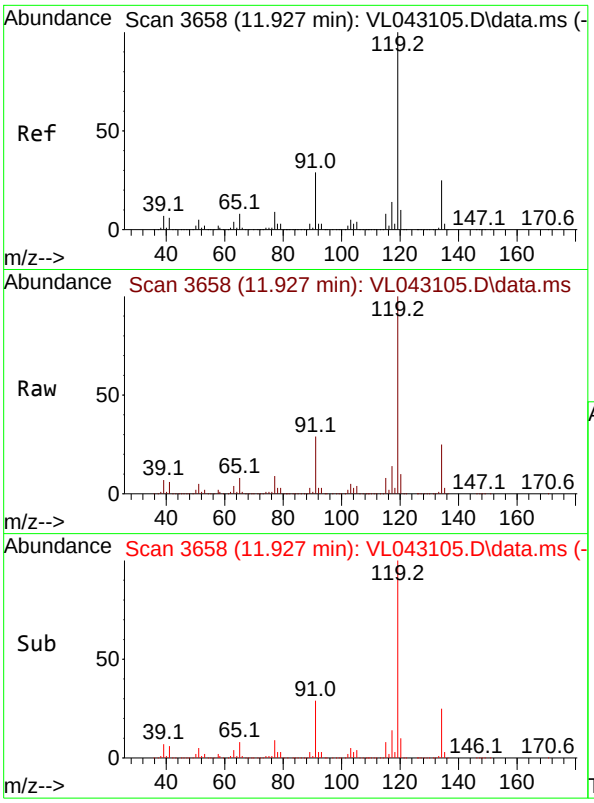


#68
1-Bromo-4-Fluorobenzene
Concen: 10.046 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 95 Resp: 241468

Ion	Ratio	Lower	Upper
95	100		
174	60.4	48.3	72.5
175	4.8	3.8	5.8



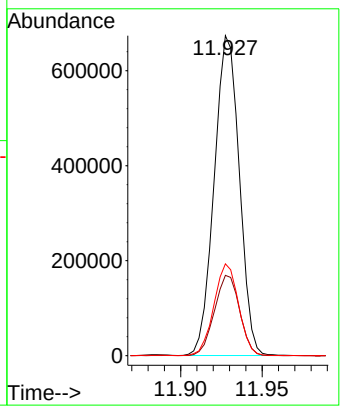


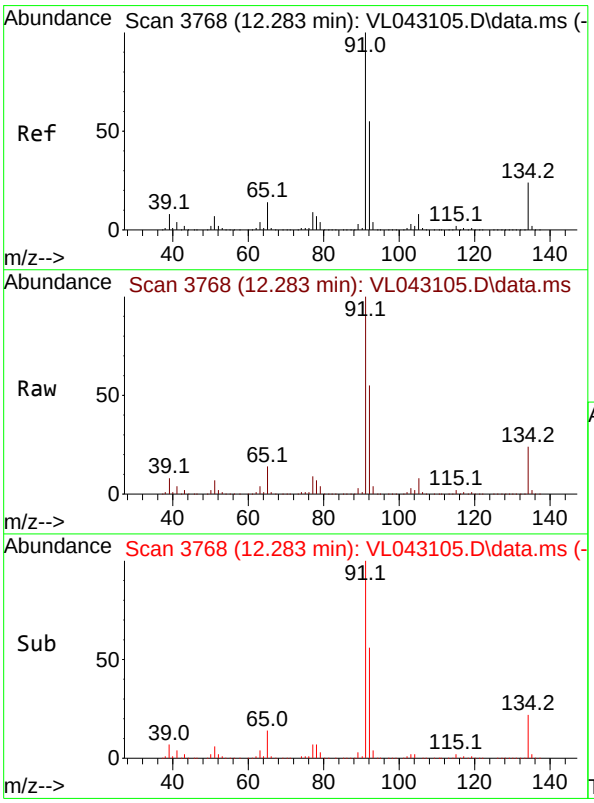
#69
p-Isopropyltoluene
Concen: 8.955 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 720433

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	28.3	22.6	33.8

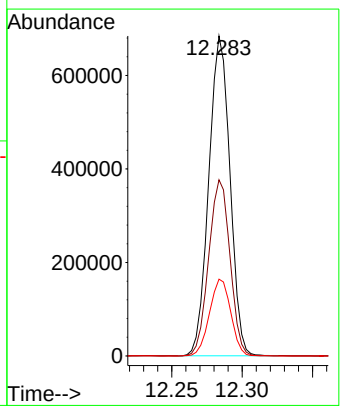


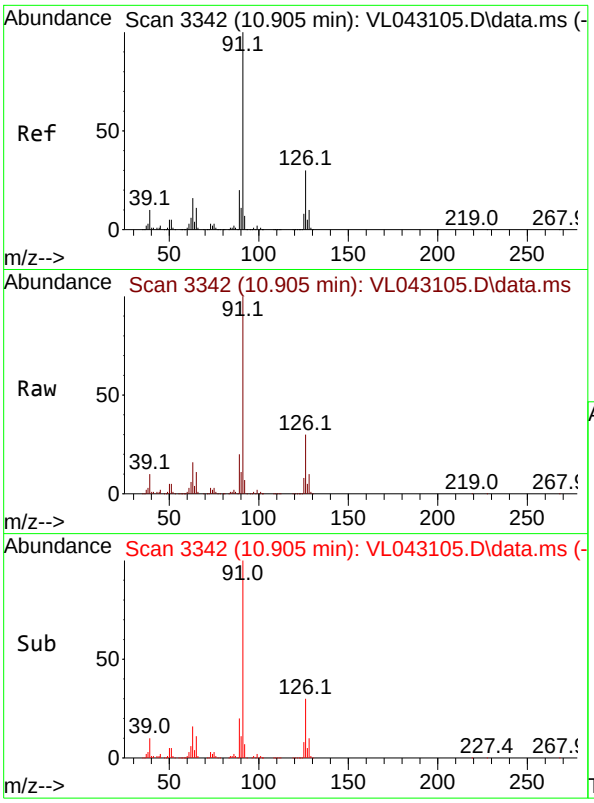


#70
n-Butylbenzene
Concen: 9.053 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 717743

Ion	Ratio	Lower	Upper
91	100		
92	55.6	44.5	66.7
134	24.1	19.3	28.9



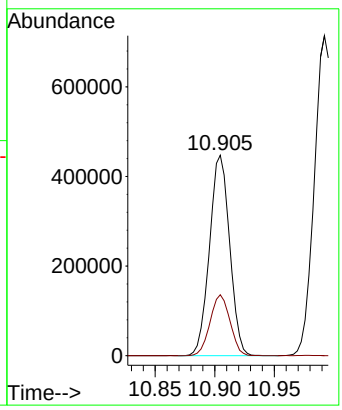


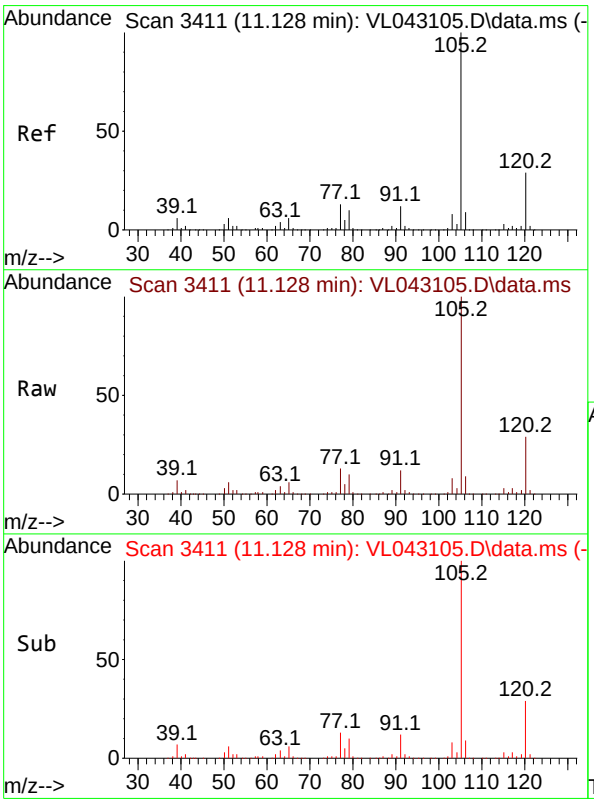
#71
2-Chlorotoluene
Concen: 9.111 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 524961

Ion	Ratio	Lower	Upper
91	100		
126	30.0	12.0	48.0

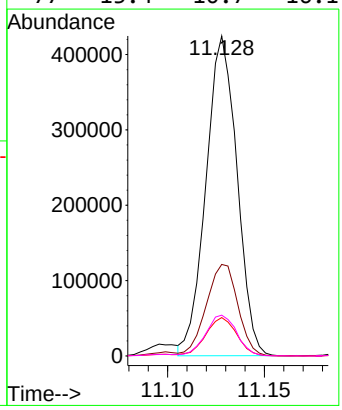


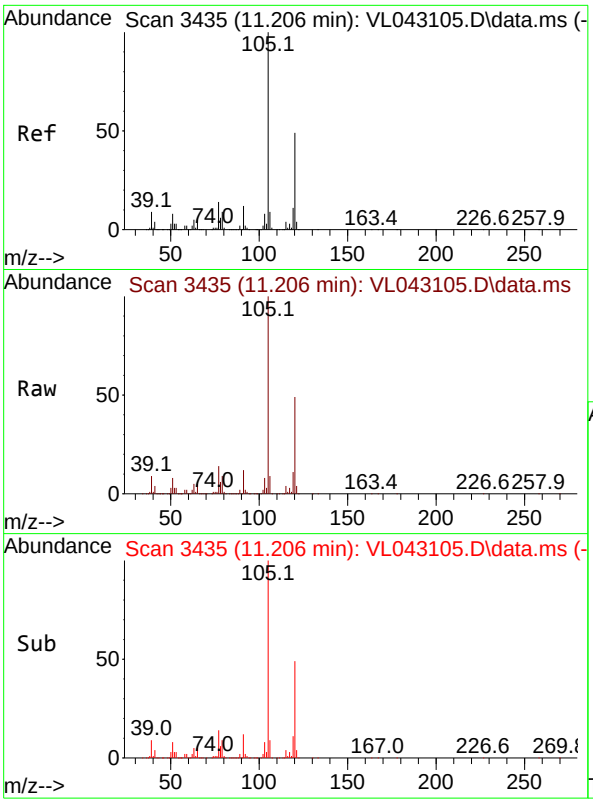


#72
4-Ethyltoluene
Concen: 9.202 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 473042

Ion	Ratio	Lower	Upper
105	100		
120	30.3	24.2	36.4
91	12.5	10.0	15.0
77	13.4	10.7	16.1



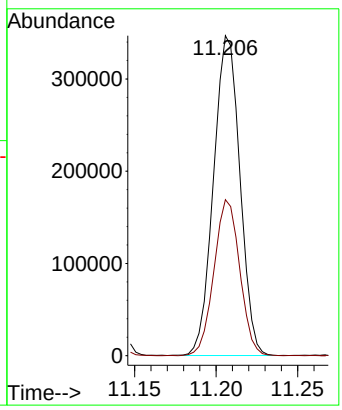


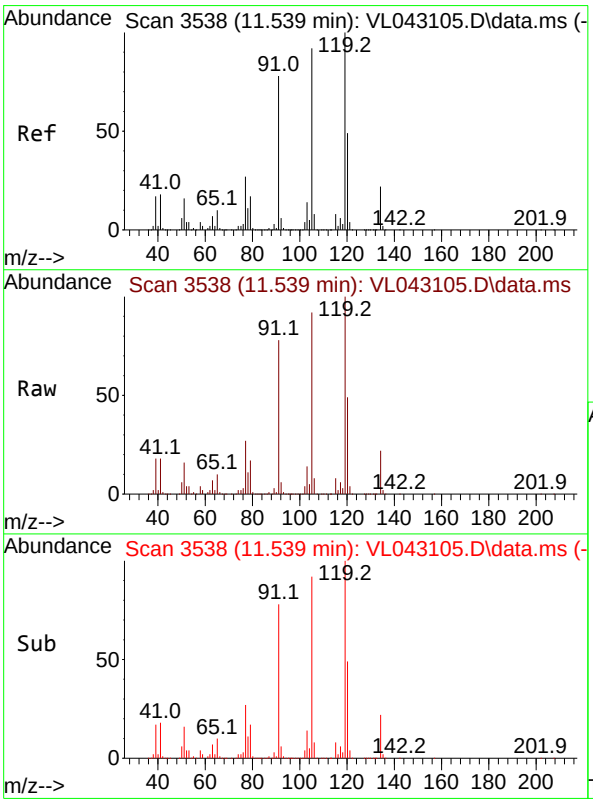
#73
1,3,5-Trimethylbenzene
Concen: 9.195 ppbv
RT: 11.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 389818

Ion	Ratio	Lower	Upper
105	100		
120	48.8	39.0	58.6

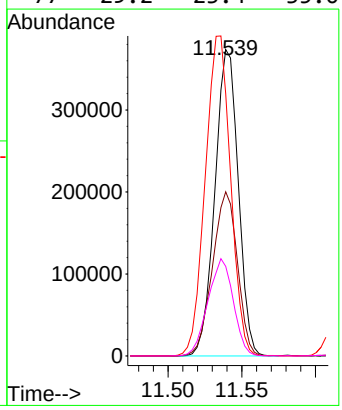


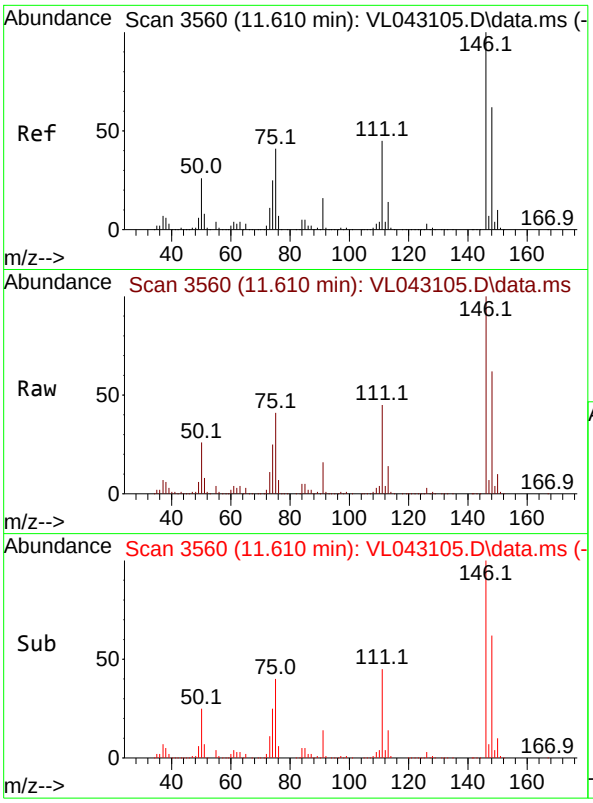


#74
1,2,4-Trimethylbenzene
Concen: 8.676 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 411619

Ion	Ratio	Lower	Upper
105	100		
120	53.5	42.8	64.2
91	85.4	68.3	102.5
77	29.2	23.4	35.0



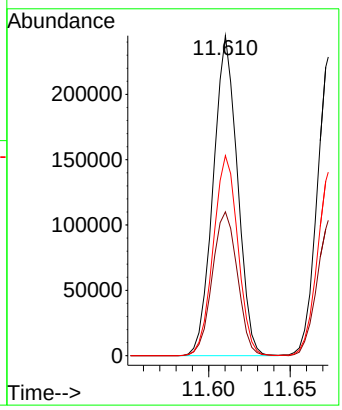


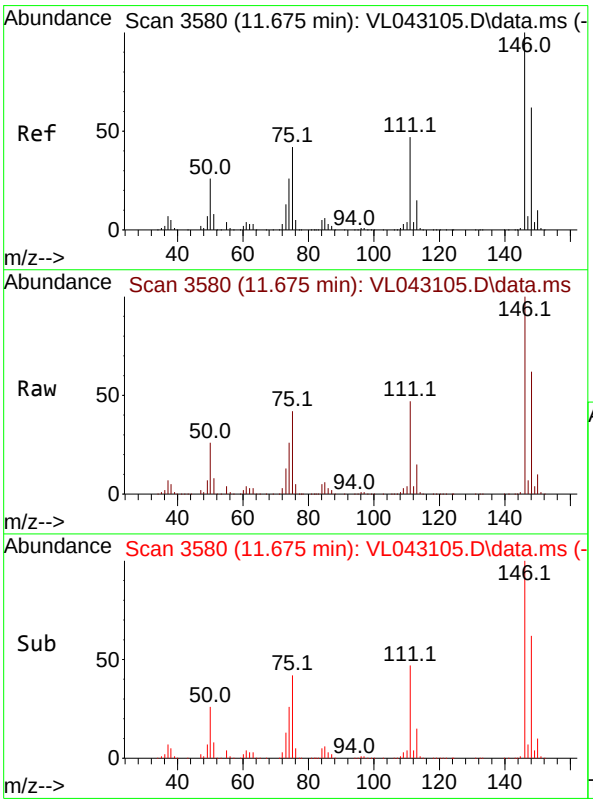
#75
1,3-Dichlorobenzene
Concen: 9.192 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 252926

Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.3	69.9
148	63.3	31.6	95.0

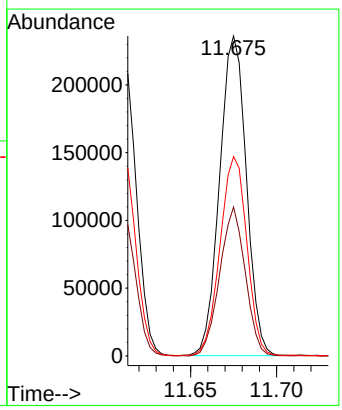


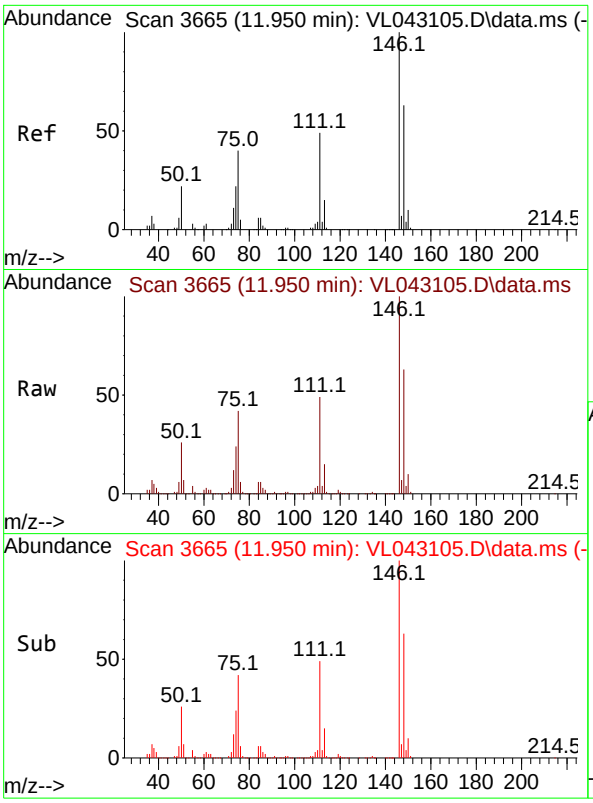


#76
1,4-Dichlorobenzene
Concen: 9.171 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:146 Resp: 254461

Ion	Ratio	Lower	Upper
146	100		
111	44.7	22.4	67.0
148	63.1	31.6	94.7



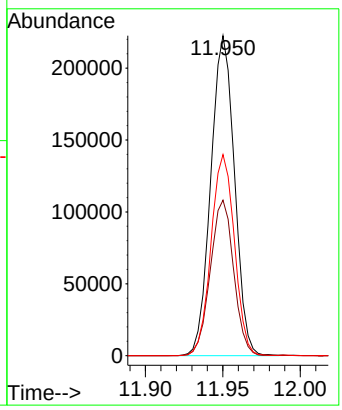


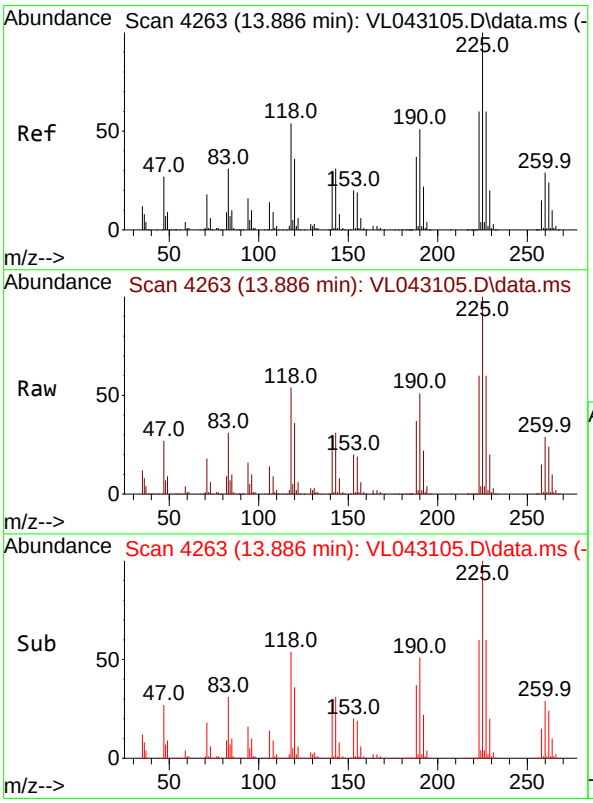
#77
1,2-Dichlorobenzene
Concen: 8.893 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 236724

Ion	Ratio	Lower	Upper
146	100		
111	48.0	24.0	72.0
148	62.2	31.1	93.3

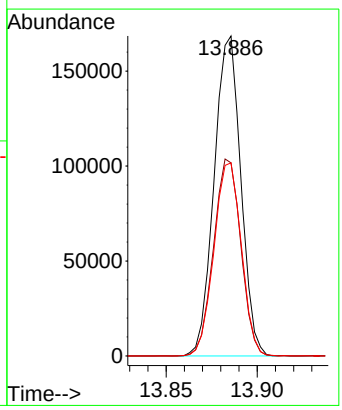


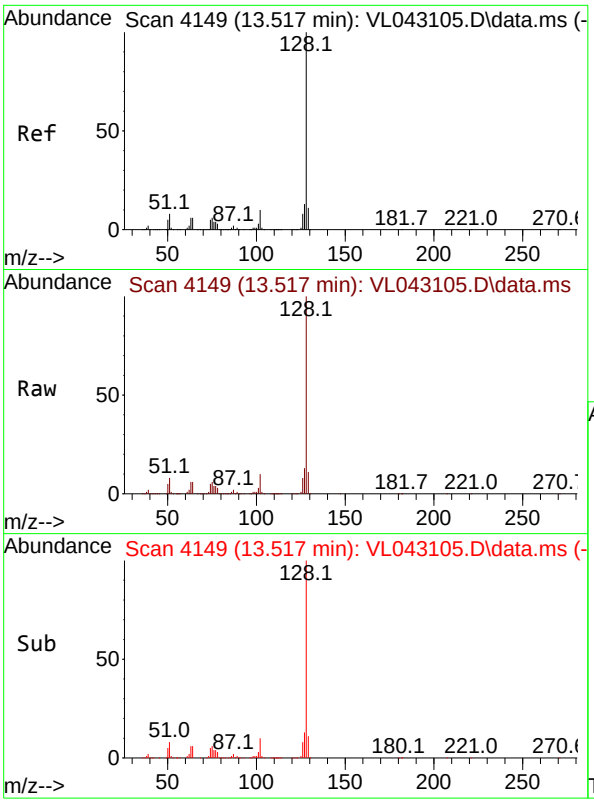


#78
Hexachloro-1,3-Butadiene
Concen: 8.334 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:225 Resp: 171777

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.4
227	62.0	49.6	74.4



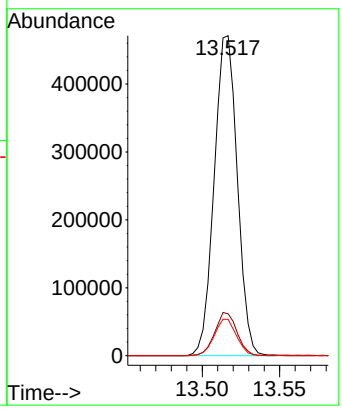


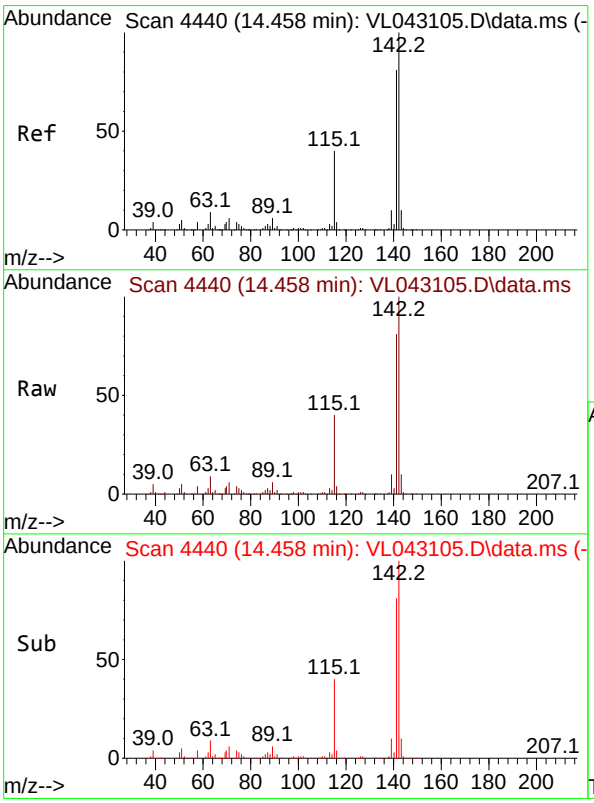
#79
Naphthalene
Concen: 9.972 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:128 Resp: 488672

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	11.4	9.1	13.7

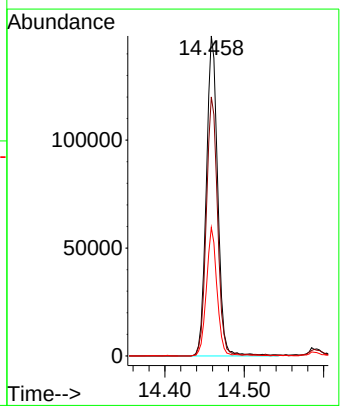


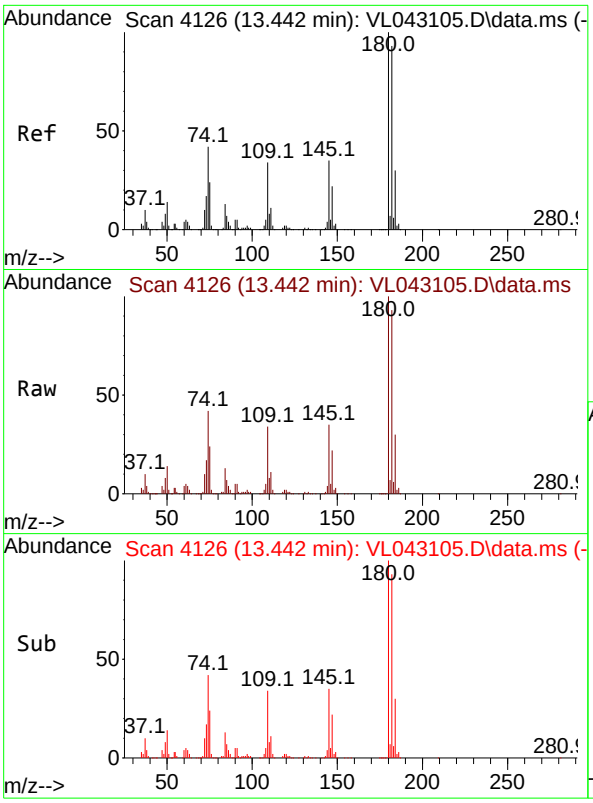


#80
Naphthalene,2-methyl-
Concen: 11.431 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Tgt Ion:142 Resp: 147897

Ion	Ratio	Lower	Upper
142	100		
141	80.8	64.6	97.0
115	37.8	30.2	45.4



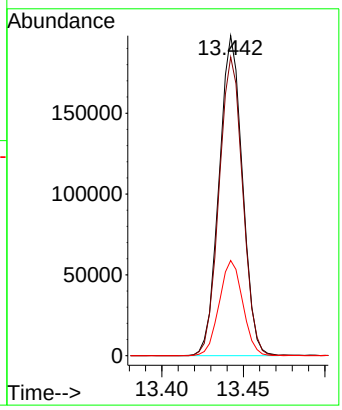


#81
1,2,4-Trichlorobenzene
Concen: 9.582 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043105.D
Acq: 14 Oct 2025 10:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:180 Resp: 197210

Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.5	113.3
184	29.9	23.9	35.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043106.D
Acq On : 14 Oct 2025 11:27
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Oct 15 01:51:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.791	49	105309	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	342939	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.882	117	313603	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	244329	10.024	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	31189	2.083	ppbv		99
3) Chlorodifluoromethane	1.476	51	33217	2.050	ppbv		96
4) Chloromethane	1.535	50	12185	2.054	ppbv		93
5) Vinyl Chloride	1.583	62	11114	1.911	ppbv		92
6) Bromomethane	1.671	94	6672	2.092	ppbv		95
7) Chloroethane	1.706	64	5008	2.106	ppbv		97
8) Dichlorotetrafluoroethane	1.557	85	25897	2.140	ppbv		100
9) Propene	1.486	41	15177	2.112	ppbv		94
10) Heptane	4.982	43	42790	2.078	ppbv		97
11) Trichlorofluoromethane	1.881	101	31114	2.125	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.143	101	25091	2.128	ppbv		100
13) Ethanol	1.722	45	6363	2.394	ppbv		95
14) Bromoethene	1.784	108	9087	2.075	ppbv		97
15) Acetone	1.836	43	31756	2.225	ppbv		97
16) 1,3-Butadiene	1.612	39	13668	2.021	ppbv		99
17) tert-Butyl alcohol	2.043	59	40738	2.091	ppbv		96
18) 1,1-Dichloroethene	2.036	96	10794	2.100	ppbv		99
19) Isopropyl Alcohol	1.888	45	18326	2.073	ppbv	#	40
20) Methylene Chloride	2.062	84	10694	1.906	ppbv	#	82
21) Allyl Chloride	2.098	41	21902	2.090	ppbv		93
22) trans-1,2-Dichloroethene	2.344	96	12511	2.036	ppbv		98
23) Vinyl Acetate	2.464	43	48282	2.322	ppbv	#	96
24) 1,1-Dichloroethane	2.412	63	25066	2.112	ppbv		99
25) Ethyl Acetate	2.836	43	74929	2.129	ppbv		99
26) Hexane	2.829	57	32595	2.010	ppbv		93
27) Carbon Disulfide	2.153	76	31705	2.134	ppbv		95
28) Methyl tert-Butyl Ether	2.441	73	16207	2.196	ppbv		98
29) Chloroform	2.849	83	48367	2.058	ppbv		99
30) Cyclohexane	3.859	84	29270	2.069	ppbv		99
31) cis-1,2-Dichloroethene	2.723	61	31925	2.061	ppbv		97
32) 1,1,1-Trichloroethane	3.370	97	51049	2.086	ppbv		98
34) 2-Butanone	2.558	43	48458	2.090	ppbv		99
35) Carbon Tetrachloride	3.765	117	51073	2.071	ppbv		97
36) Benzene	3.658	78	70156	2.172	ppbv		98
37) 1,2-Dichloroethane	3.218	62	38767	2.083	ppbv		100
38) Trichloroethene	4.551	130	27272	2.024	ppbv		96
39) 1,2-Dichloropropane	4.315	63	25427	2.151	ppbv		92
40) 1,4-Dioxane	4.584	88	4954	0.938	ppbv	#	21
41) Tetrahydrofuran	3.059	42	26362	2.037	ppbv		98
42) Bromodichloromethane	4.496	83	54224	2.106	ppbv	#	93
43) Methyl Methacrylate	4.878	69	33805	2.051	ppbv		99
44) 2,2,4-Trimethylpentane	4.642	57	115417	2.137	ppbv		99
45) t-1,3-Dichloropropene	6.416	75	34728	2.109	ppbv		90

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043106.D
Acq On : 14 Oct 2025 11:27
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Oct 15 01:51:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

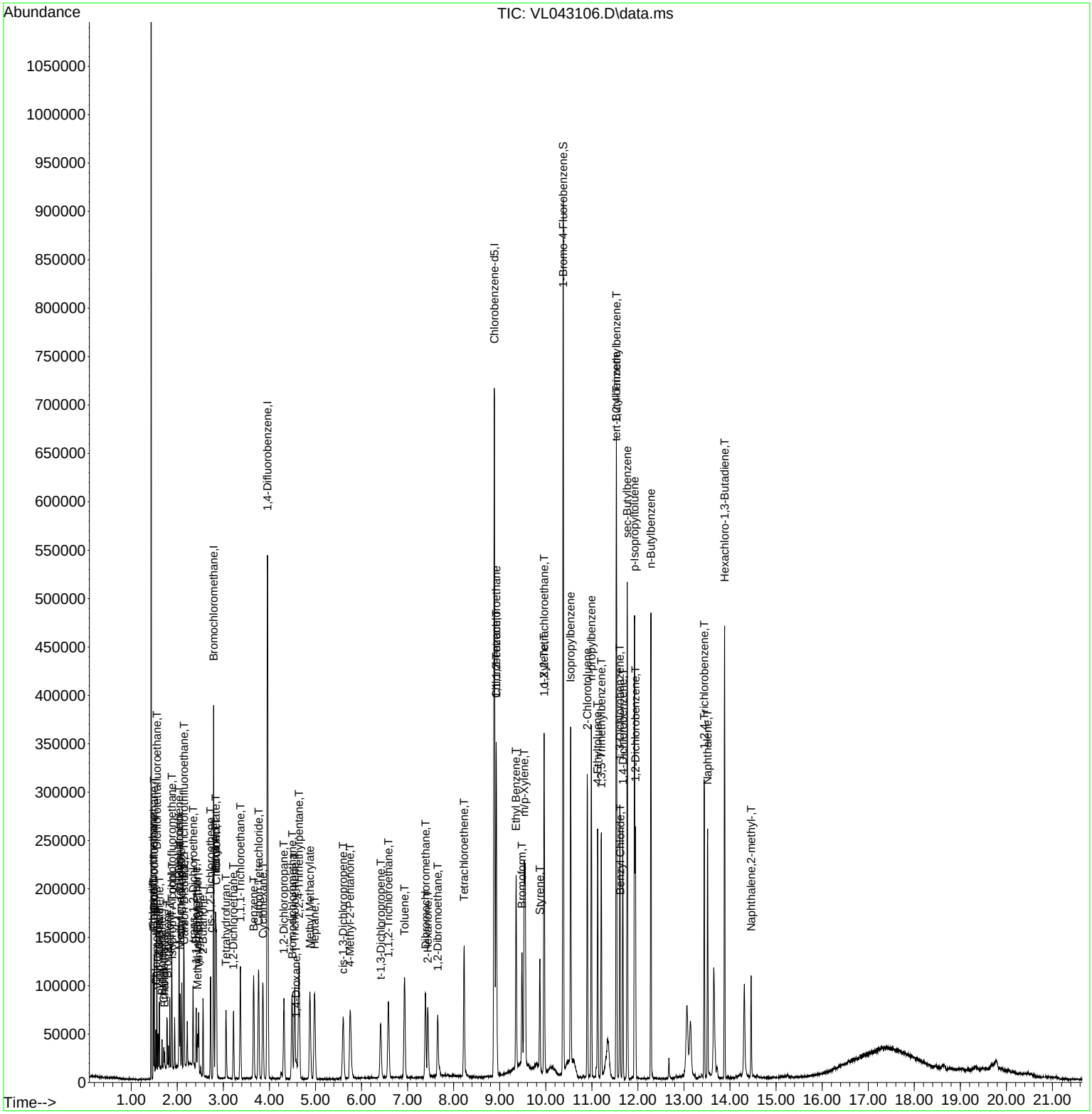
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	23612	1.202	ppbv		98
47) 1,1,2-Trichloroethane	6.584	97	26359	2.067	ppbv		94
48) Dibromochloromethane	7.390	129	45751	2.146	ppbv		99
49) Bromoform	9.484	173	37314	2.153	ppbv		99
50) 4-Methyl-2-Pentanone	5.752	43	66811	2.089	ppbv		99
51) 2-Hexanone	7.438	43	50642	2.122	ppbv	#	99
52) Tetrachloroethene	8.228	164	24183	2.076	ppbv		91
53) Toluene	6.937	91	80660	2.104	ppbv		99
54) 1,2-Dibromoethane	7.655	107	42320	2.103	ppbv		94
56) 1,1,1,2-Tetrachloroethane	8.924	131	41712	2.110	ppbv		94
57) Chlorobenzene	8.924	112	62714	2.138	ppbv		97
58) Ethyl Benzene	9.354	91	114403	2.109	ppbv		99
59) m/p-Xylene	9.532	91	96158	2.238	ppbv	#	29
60) o-Xylene	9.963	91	91223	2.152	ppbv		98
61) Styrene	9.872	104	41631	2.175	ppbv		98
62) Isopropylbenzene	10.539	105	164073	2.142	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.966	83	58510	2.061	ppbv		99
64) n-propylbenzene	10.989	120	43648	2.152	ppbv		96
65) tert-Butylbenzene	11.529	119	148300	2.192	ppbv		99
66) Benzyl Chloride	11.617	91	15656	2.072	ppbv		98
67) sec-Butylbenzene	11.769	105	210525	2.193	ppbv		99
69) p-Isopropyltoluene	11.928	119	180060	2.207	ppbv		99
70) n-Butylbenzene	12.284	91	178676	2.222	ppbv		98
71) 2-Chlorotoluene	10.902	91	126551	2.166	ppbv		99
72) 4-Ethyltoluene	11.125	105	113233	2.172	ppbv		98
73) 1,3,5-Trimethylbenzene	11.206	105	92650	2.155	ppbv		99
74) 1,2,4-Trimethylbenzene	11.536	105	104352	2.169	ppbv		98
75) 1,3-Dichlorobenzene	11.607	146	62709	2.247	ppbv		99
76) 1,4-Dichlorobenzene	11.672	146	60877	2.164	ppbv		100
77) 1,2-Dichlorobenzene	11.947	146	57304	2.123	ppbv		97
78) Hexachloro-1,3-Butadiene	13.883	225	46796	2.239	ppbv		98
79) Naphthalene	13.514	128	123642	2.488	ppbv		99
80) Naphthalene,2-methyl-	14.459	142	32308	2.462	ppbv		98
81) 1,2,4-Trichlorobenzene	13.442	180	50394	2.414	ppbv		99

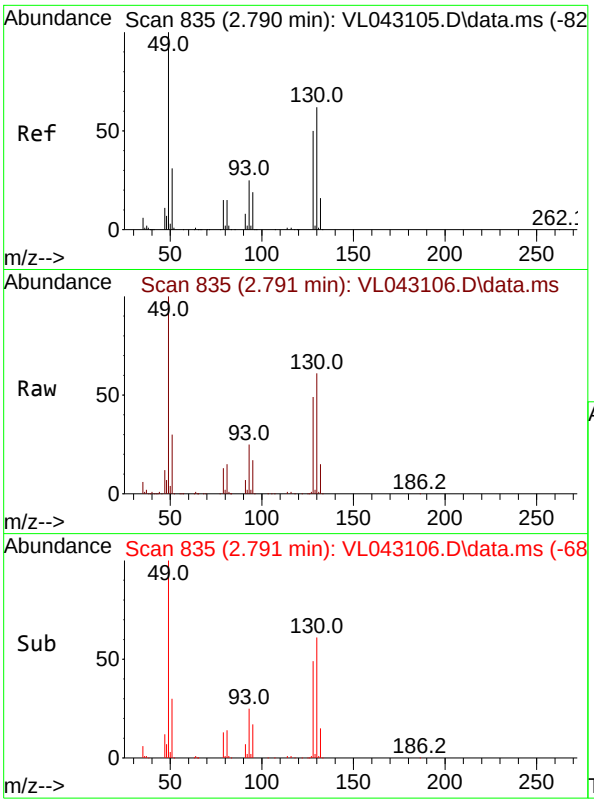
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043106.D
Acq On : 14 Oct 2025 11:27
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Oct 15 01:51:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration



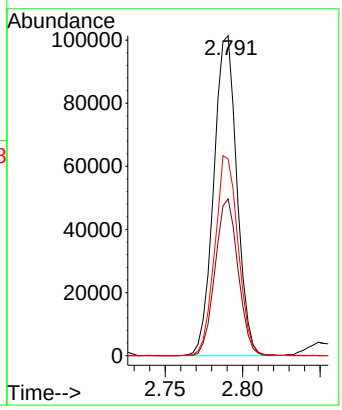


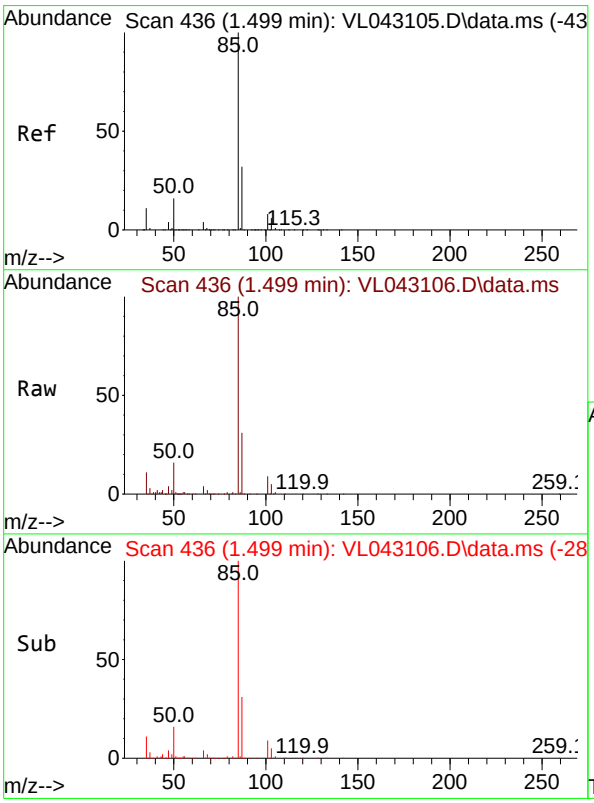
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.001 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 49 Resp: 105309

Ion	Ratio	Lower	Upper
49	100		
128	48.8	24.4	73.4
130	62.8	31.0	93.0

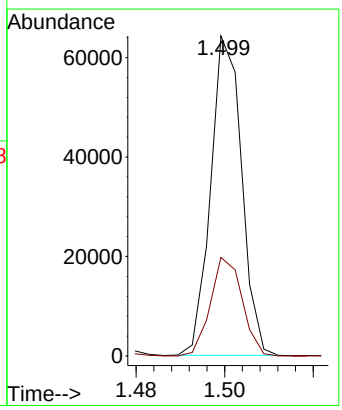


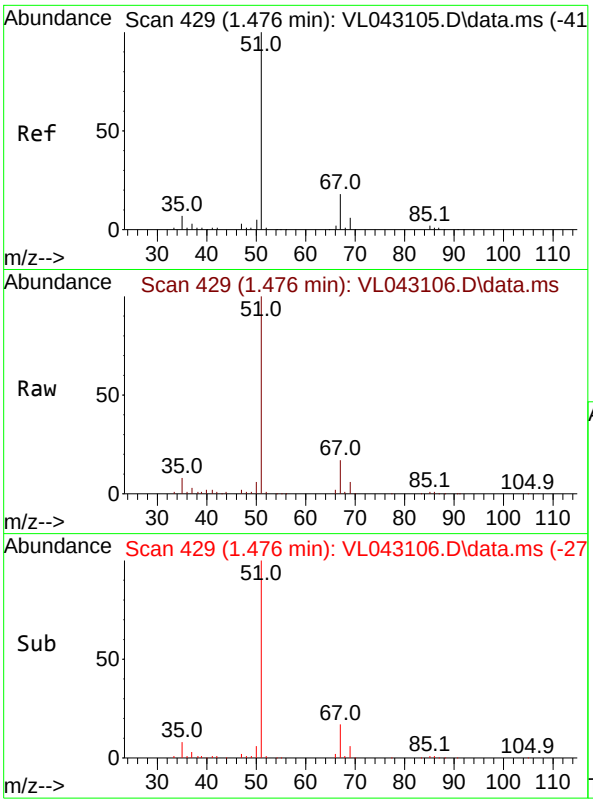


#2
Dichlorodifluoromethane
Concen: 2.083 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 31189

Ion	Ratio	Lower	Upper
85	100		
87	30.9	25.3	37.9



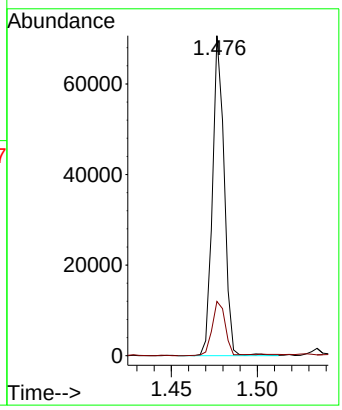


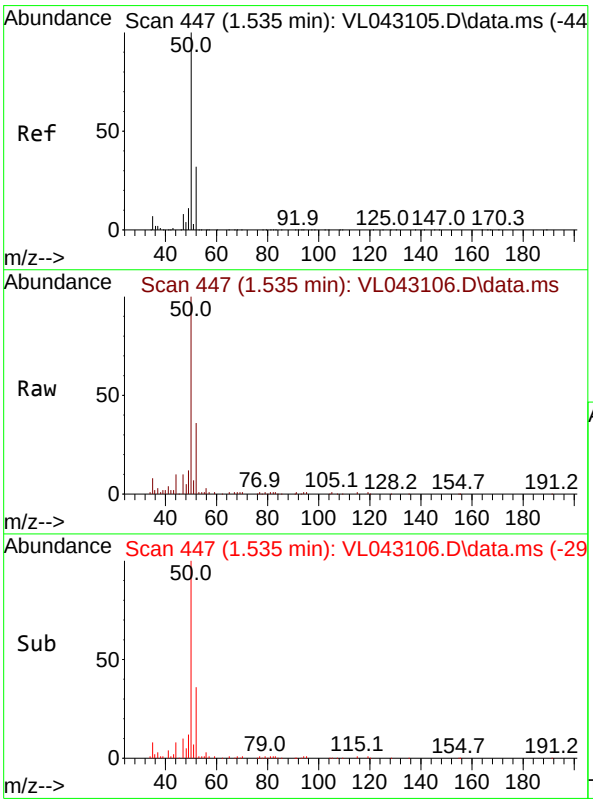
#3
Chlorodifluoromethane
Concen: 2.050 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 33217

Ion	Ratio	Lower	Upper
51	100		
67	20.6	15.1	22.7

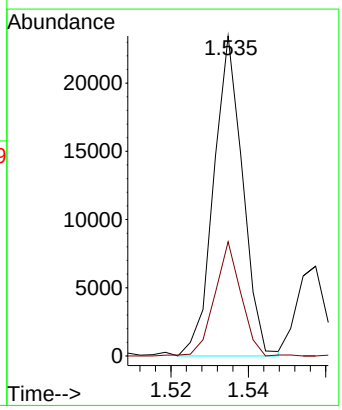


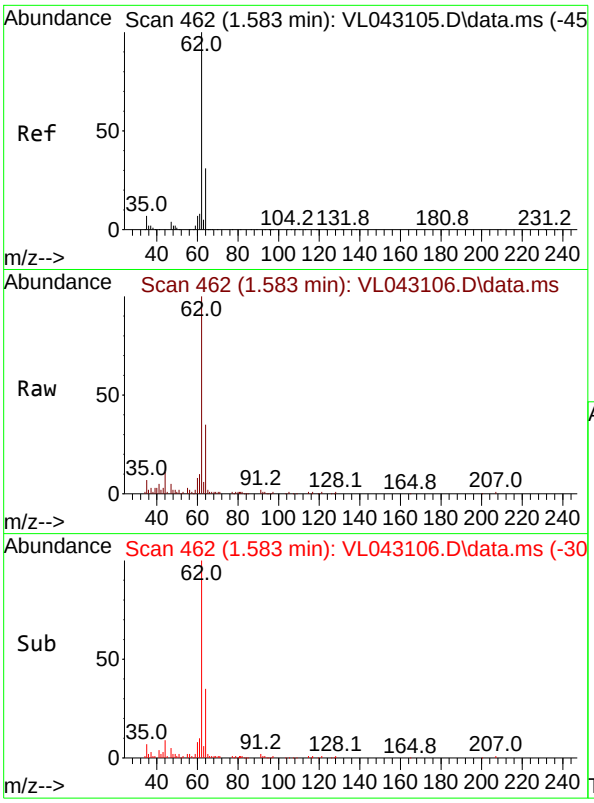


#4
Chloromethane
Concen: 2.054 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 50 Resp: 12185

Ion	Ratio	Lower	Upper
50	100		
52	35.4	25.2	37.8



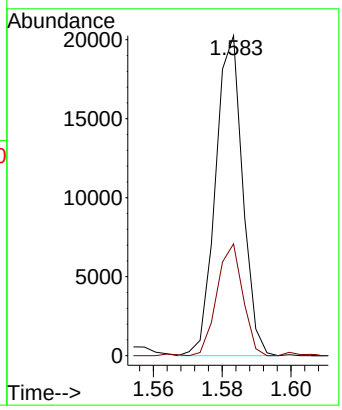


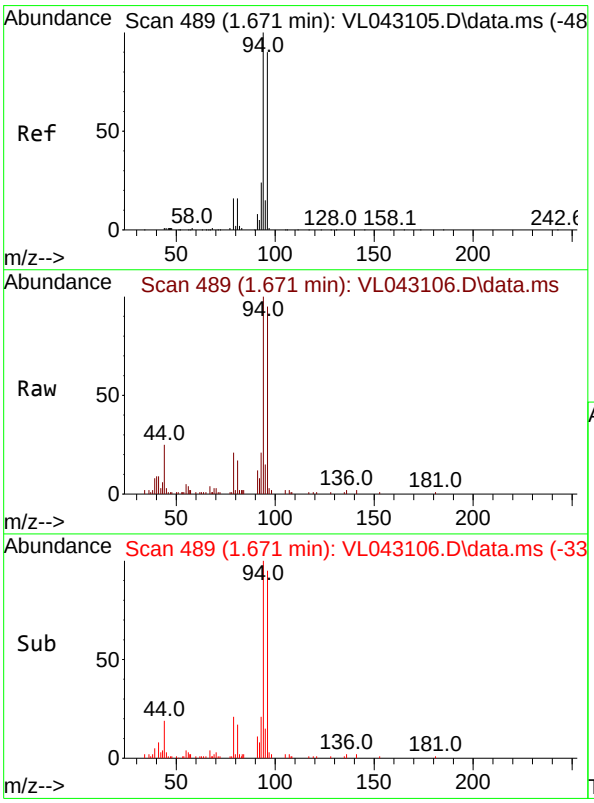
#5
Vinyl Chloride
Concen: 1.911 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 11114

Ion	Ratio	Lower	Upper
62	100		
64	35.0	24.6	36.8

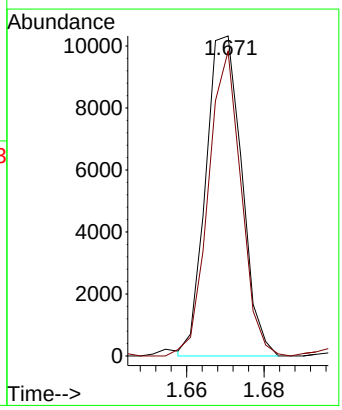


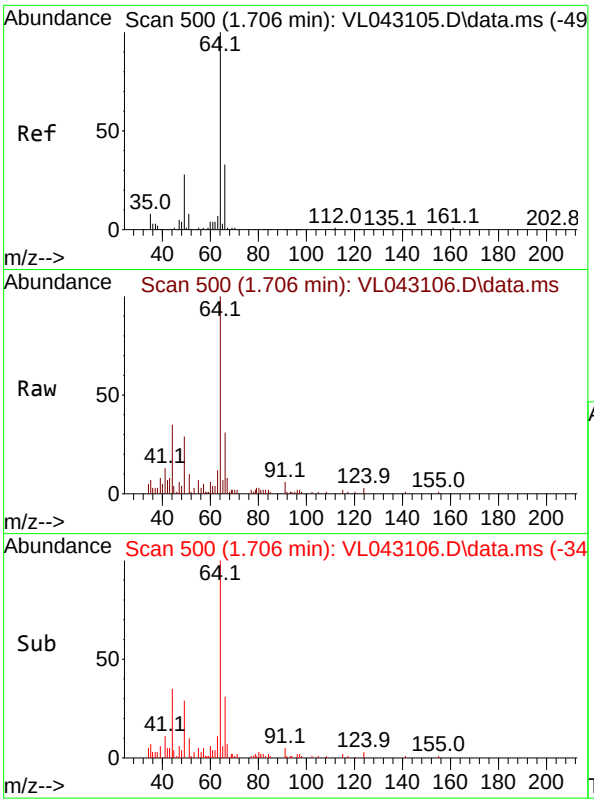


#6
Bromomethane
Concen: 2.092 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 94 Resp: 6672

Ion	Ratio	Lower	Upper
94	100		
96	94.6	72.2	108.4



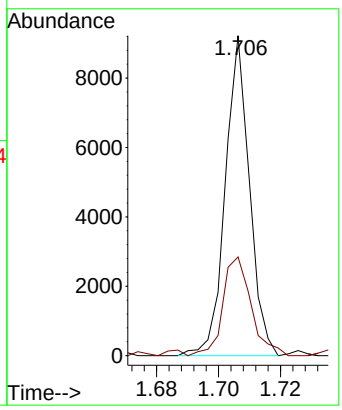


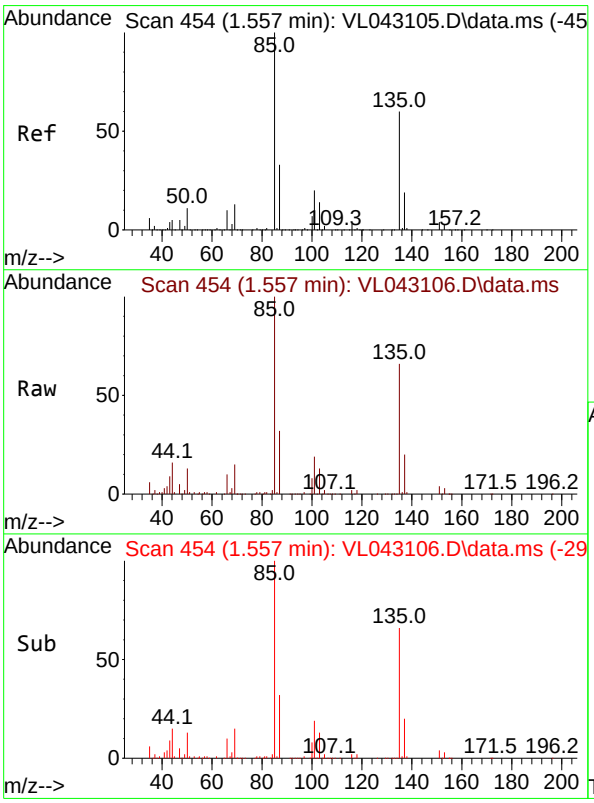
#7
Chloroethane
Concen: 2.106 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 5008

Ion	Ratio	Lower	Upper
64	100		
66	30.8	26.0	39.0

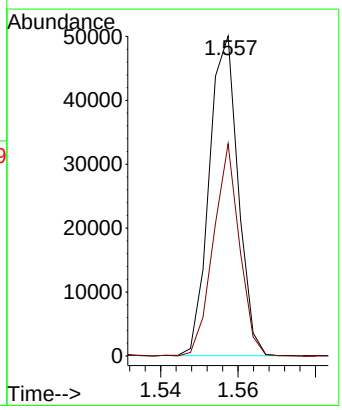


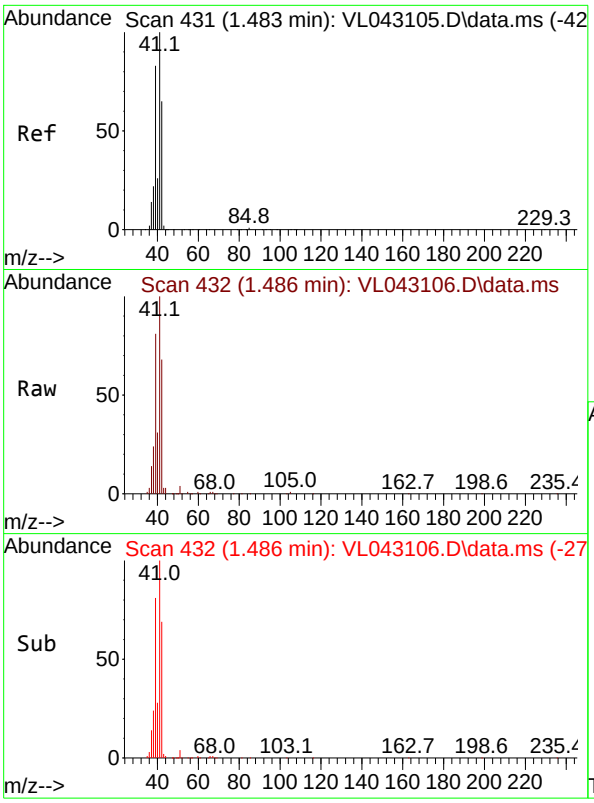


#8
Dichlorotetrafluoroethane
Concen: 2.140 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 25897

Ion	Ratio	Lower	Upper
85	100		
135	60.1	48.2	72.4



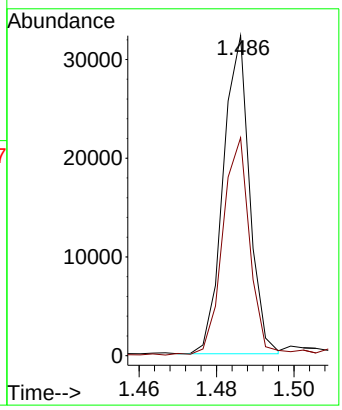


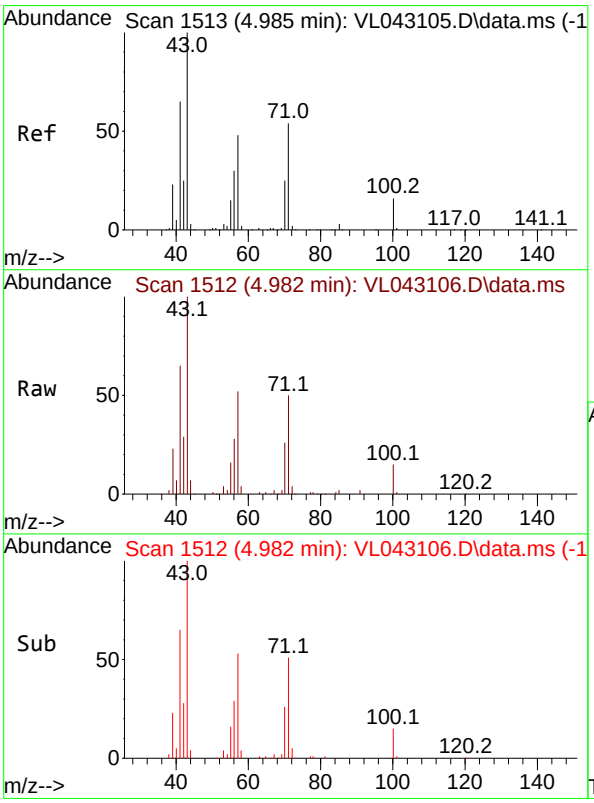
#9
Propene
Concen: 2.112 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 15177

Ion	Ratio	Lower	Upper
41	100		
42	74.0	55.1	82.7

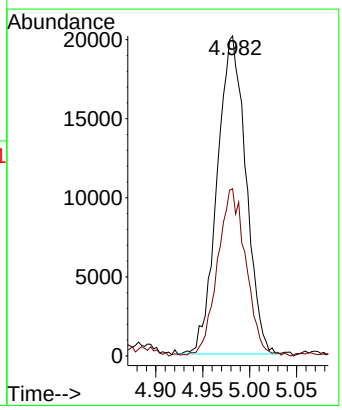


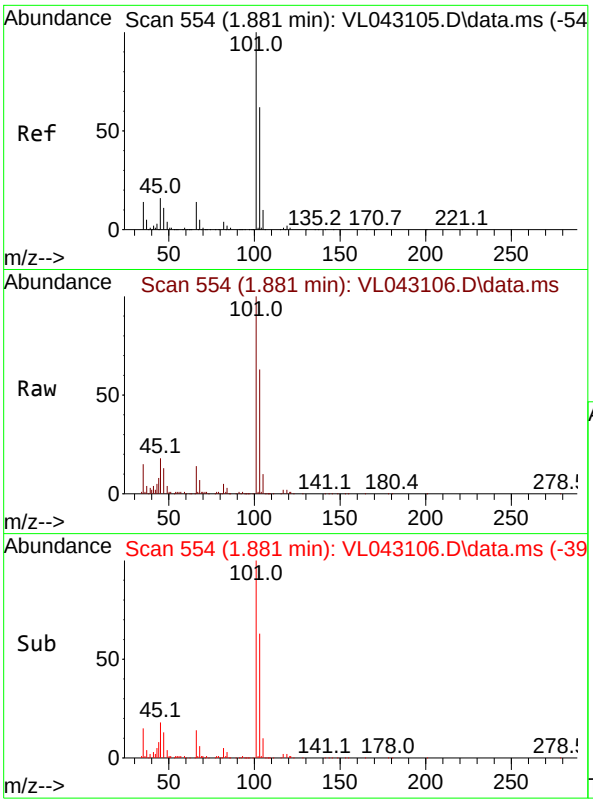


#10
Heptane
Concen: 2.078 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 42790

Ion	Ratio	Lower	Upper
43	100		
57	52.8	40.8	61.2



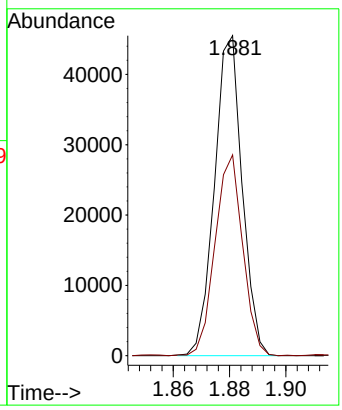


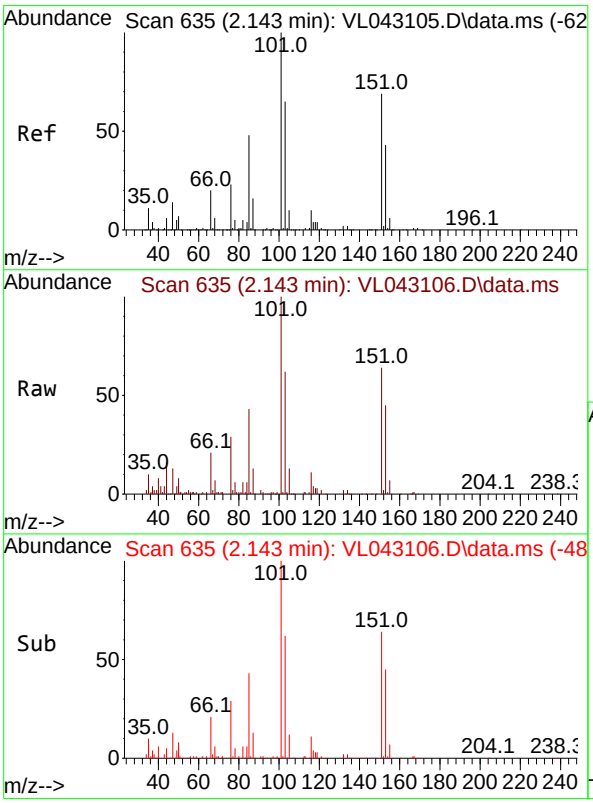
#11
Trichlorofluoromethane
Concen: 2.125 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 31114

Ion	Ratio	Lower	Upper
101	100		
103	62.8	49.3	73.9

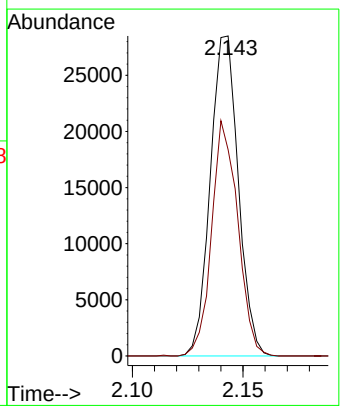


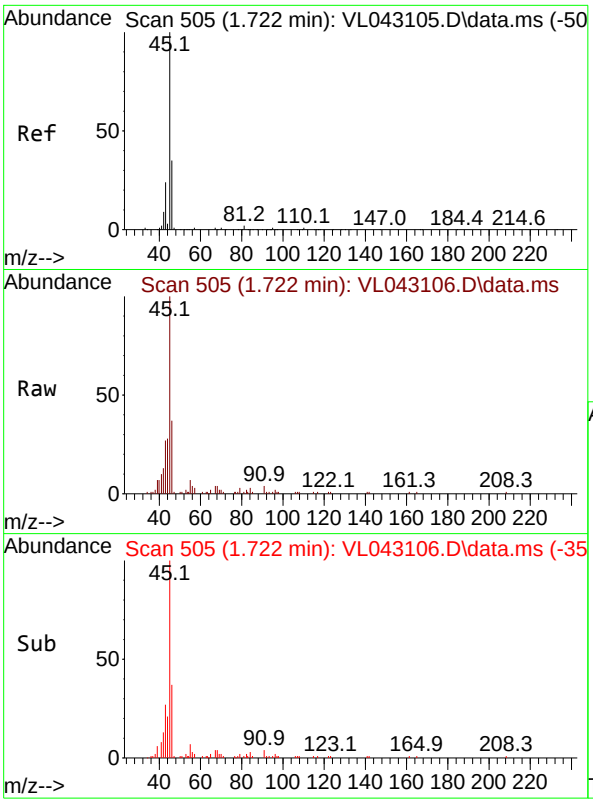


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.128 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:101 Resp: 25091

Ion	Ratio	Lower	Upper
101	100		
151	68.5	54.7	82.1



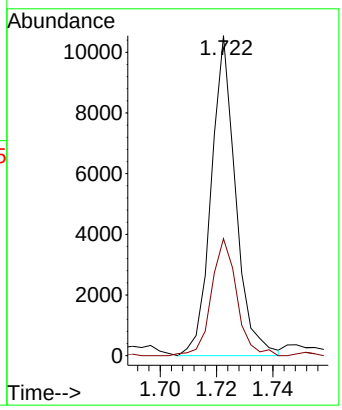


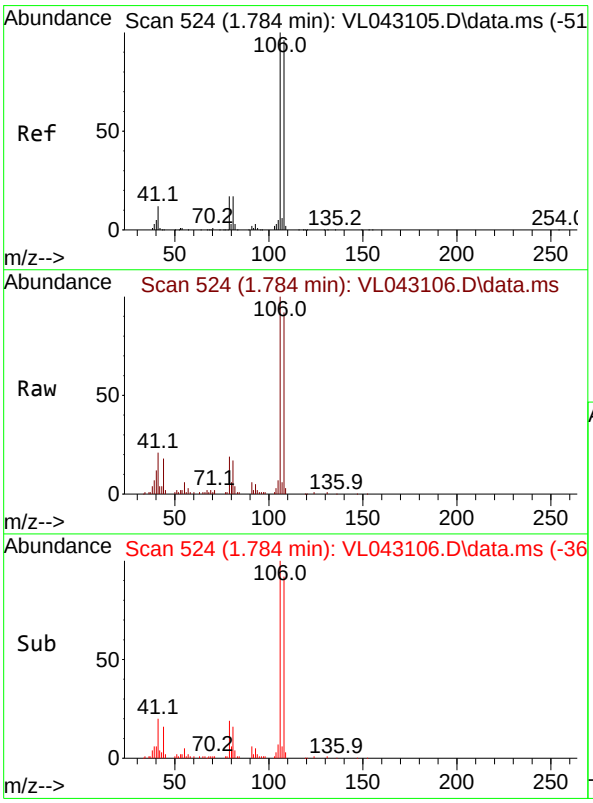
#13
Ethanol
Concen: 2.394 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 6363

Ion	Ratio	Lower	Upper
45	100		
46	39.6	14.7	58.9

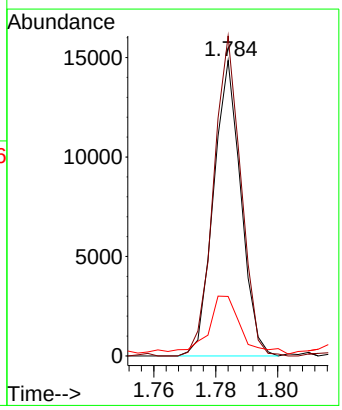


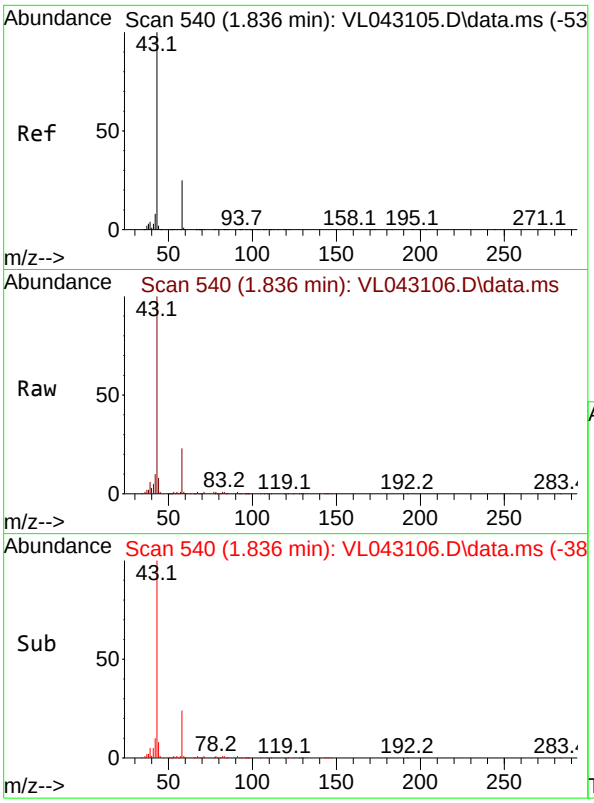


#14
Bromoethene
Concen: 2.075 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:108 Resp: 9087

Ion	Ratio	Lower	Upper
108	100		
106	109.1	84.4	126.6
79	19.1	15.3	22.9



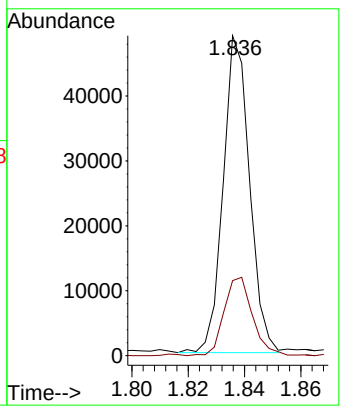


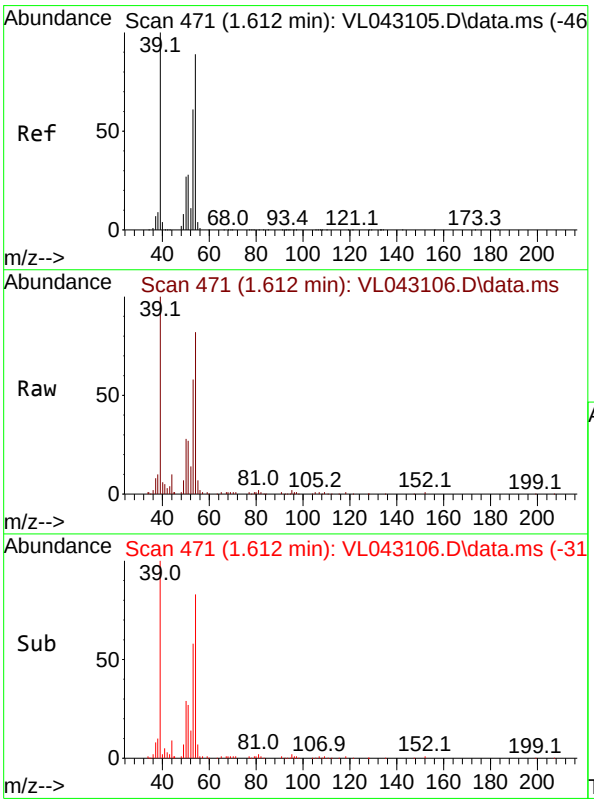
#15
Acetone
Concen: 2.225 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 31756

Ion	Ratio	Lower	Upper
43	100		
58	27.3	20.8	31.2

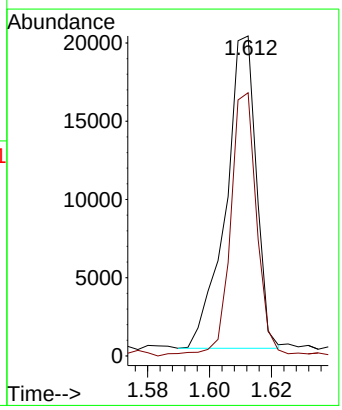


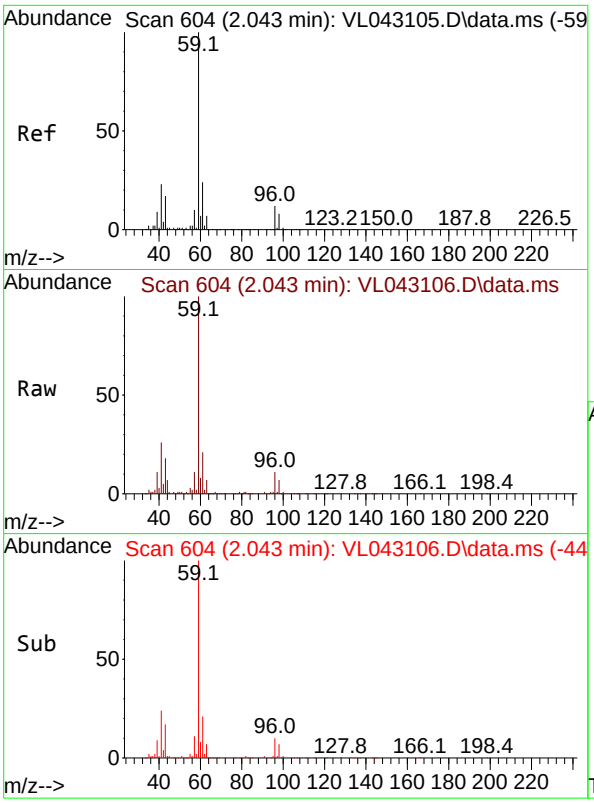


#16
1,3-Butadiene
Concen: 2.021 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 39 Resp: 13668

Ion	Ratio	Lower	Upper
39	100		
54	74.3	59.0	88.4



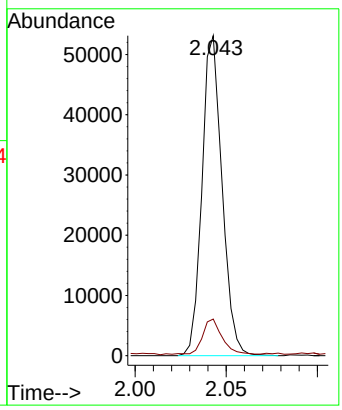


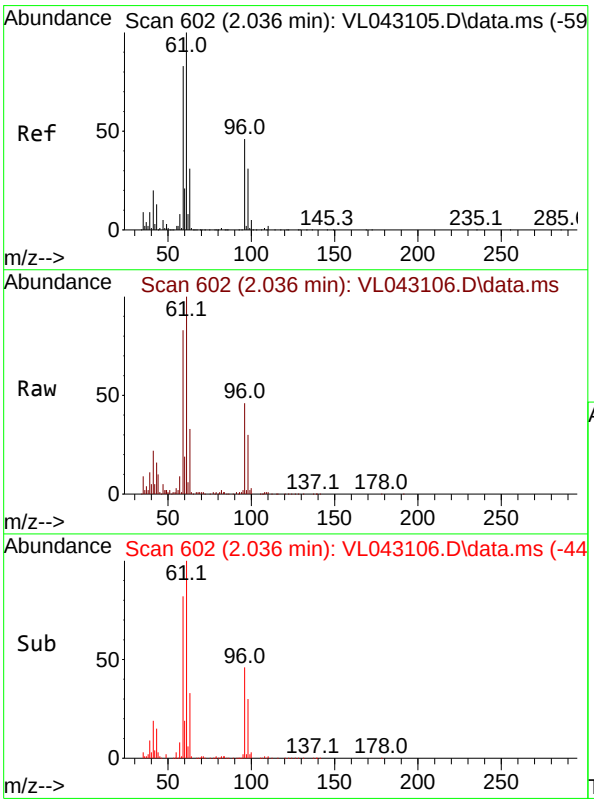
#17
tert-Butyl alcohol
Concen: 2.091 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 40738

Ion	Ratio	Lower	Upper
59	100		
57	11.9	8.2	12.4

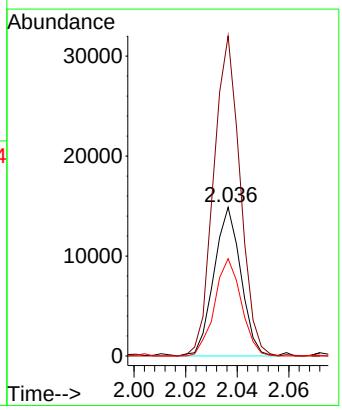


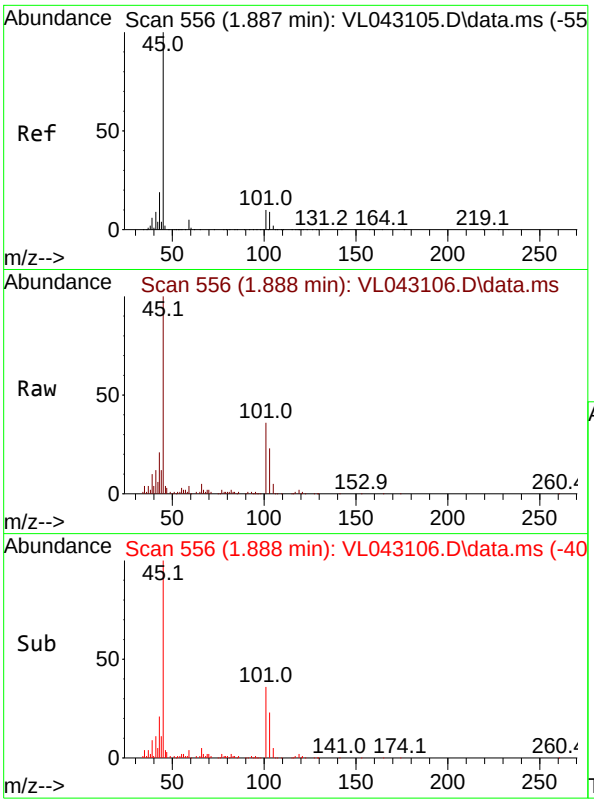


#18
1,1-Dichloroethene
Concen: 2.100 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 96 Resp: 10794

Ion	Ratio	Lower	Upper
96	100		
61	215.2	173.4	260.0
98	65.4	53.2	79.8



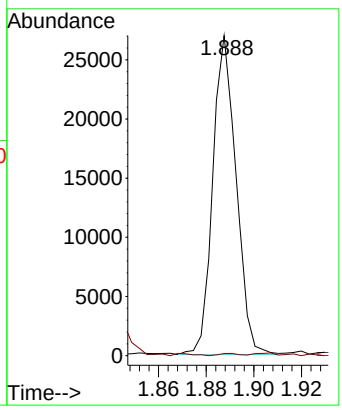


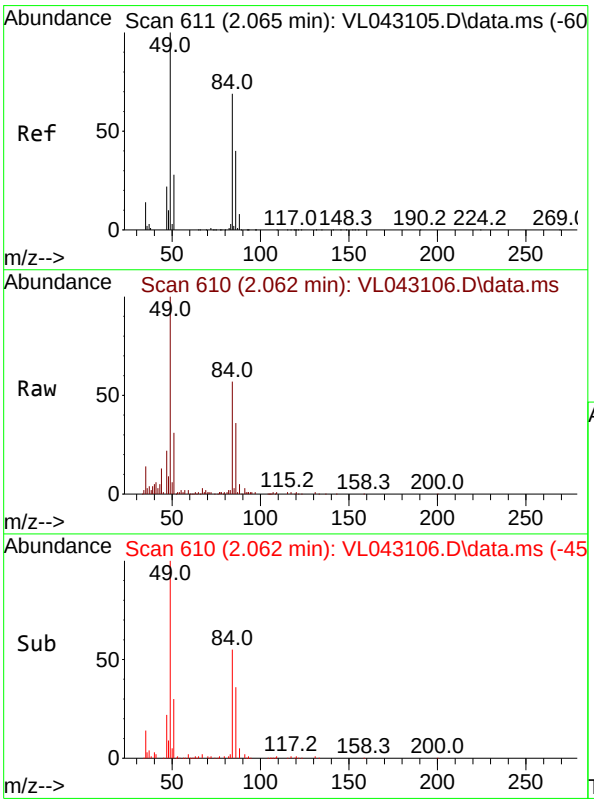
#19
Isopropyl Alcohol
Concen: 2.073 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 18326

Ion	Ratio	Lower	Upper
45	100		
58	2.3	31.3	46.9#

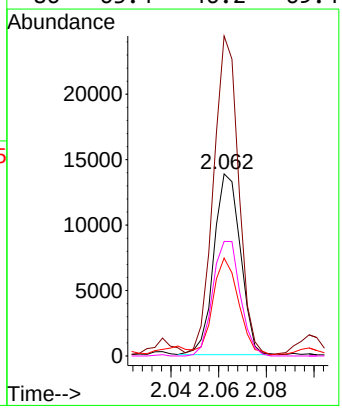


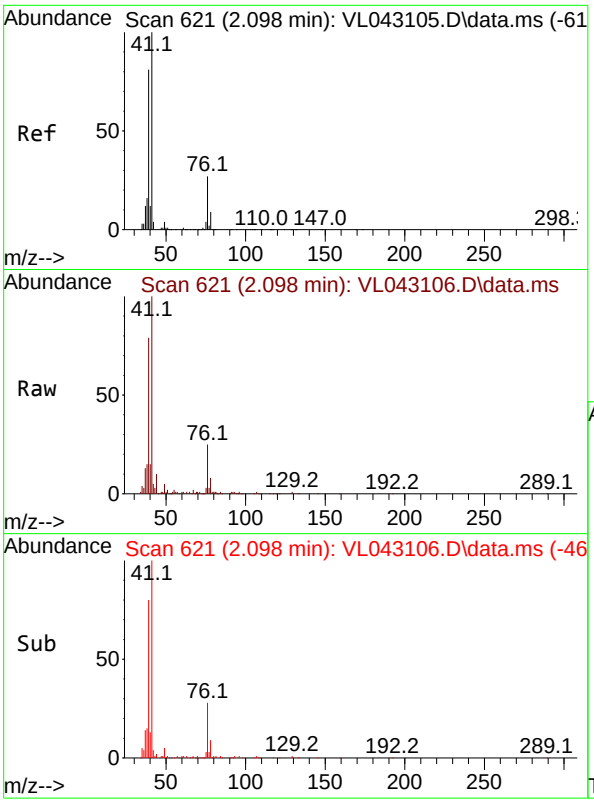


#20
Methylene Chloride
Concen: 1.906 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 84 Resp: 10694

Ion	Ratio	Lower	Upper
84	100		
49	175.6	116.6	175.0#
51	53.2	34.8	52.2#
86	63.4	46.2	69.4



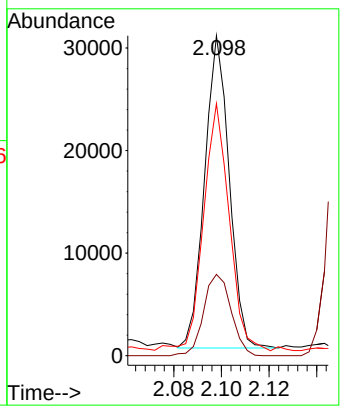


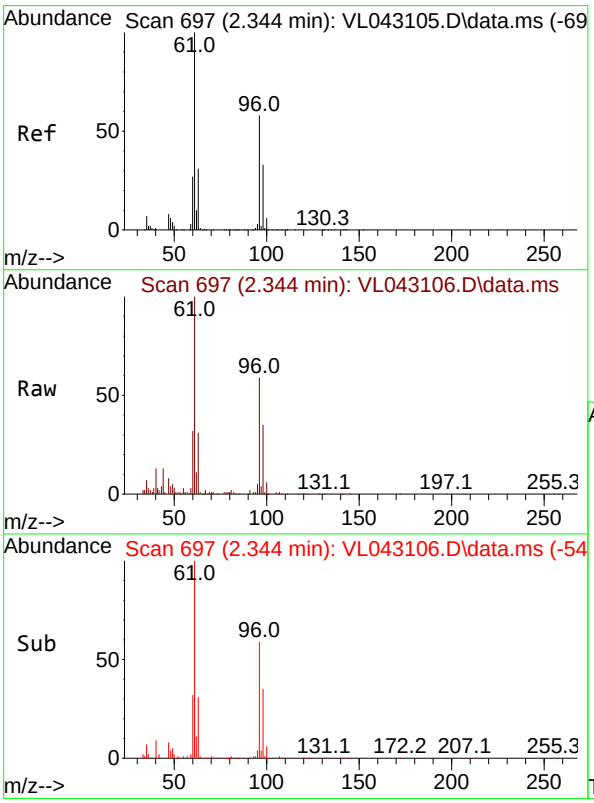
#21
Allyl Chloride
Concen: 2.090 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 21902

Ion	Ratio	Lower	Upper
41	100		
76	28.9	21.5	32.3
39	83.1	60.8	91.2

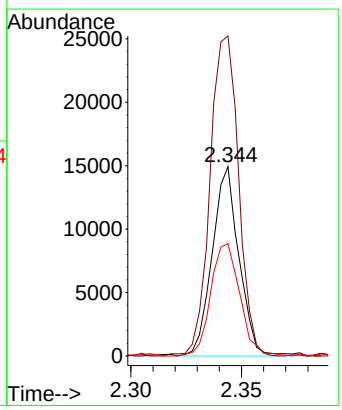


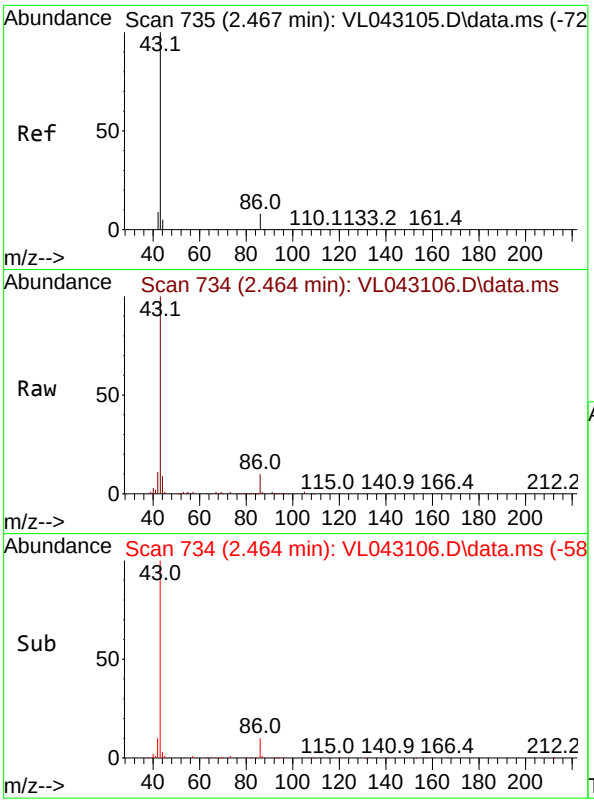


#22
trans-1,2-Dichloroethene
Concen: 2.036 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 96 Resp: 12511

Ion	Ratio	Lower	Upper
96	100		
61	169.0	137.0	205.6
98	59.3	45.5	68.3



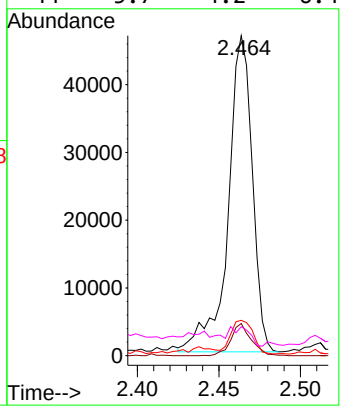


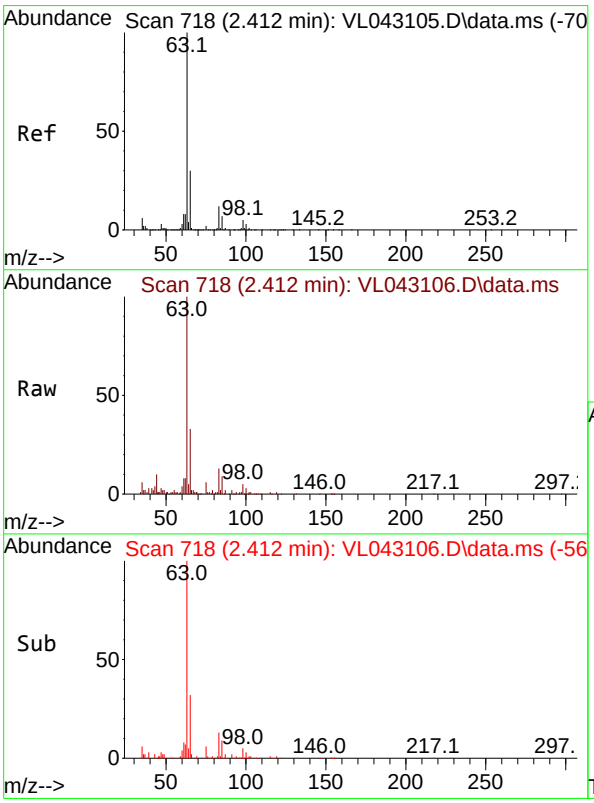
#23
Vinyl Acetate
Concen: 2.322 ppbv
RT: 2.464 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 48282

Ion	Ratio	Lower	Upper
43	100		
86	10.1	6.2	9.2#
42	10.6	7.6	11.4
44	5.7	4.2	6.4

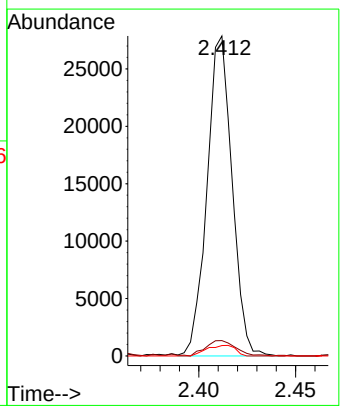


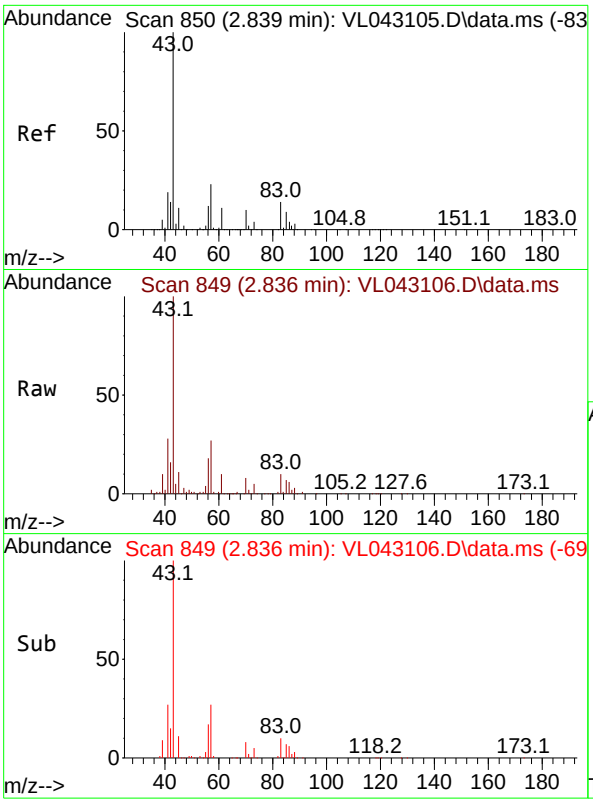


#24
1,1-Dichloroethane
Concen: 2.112 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 63 Resp: 25066

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.6	7.8
100	3.2	1.5	4.4



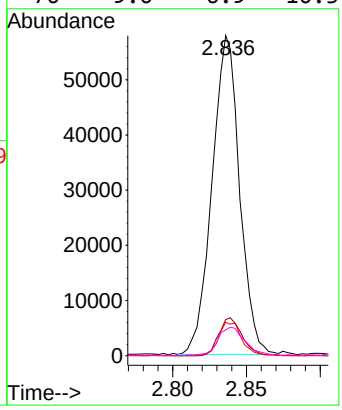


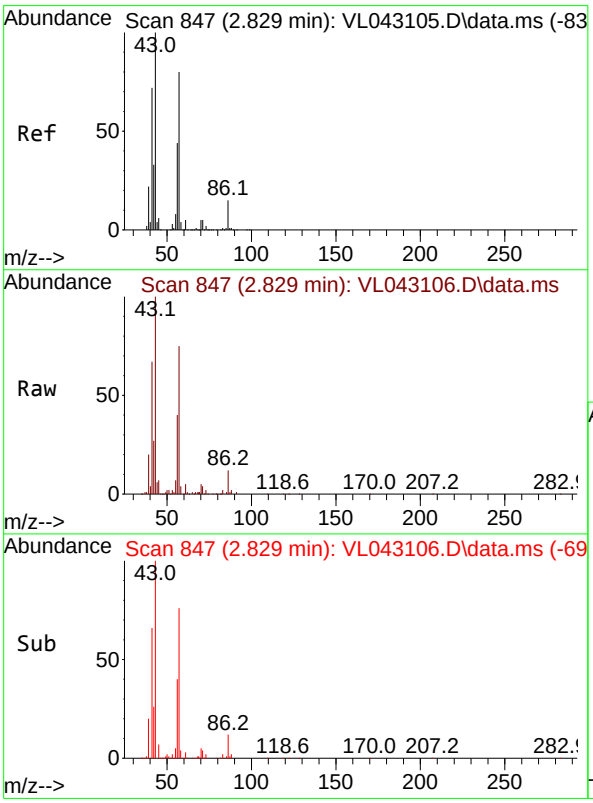
#25
Ethyl Acetate
Concen: 2.129 ppbv
RT: 2.836 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 74929

Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.8	11.8
61	8.9	7.0	10.6
70	9.0	6.9	10.3

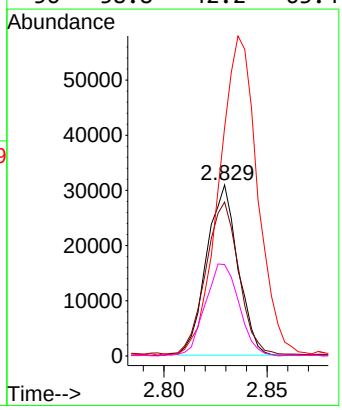


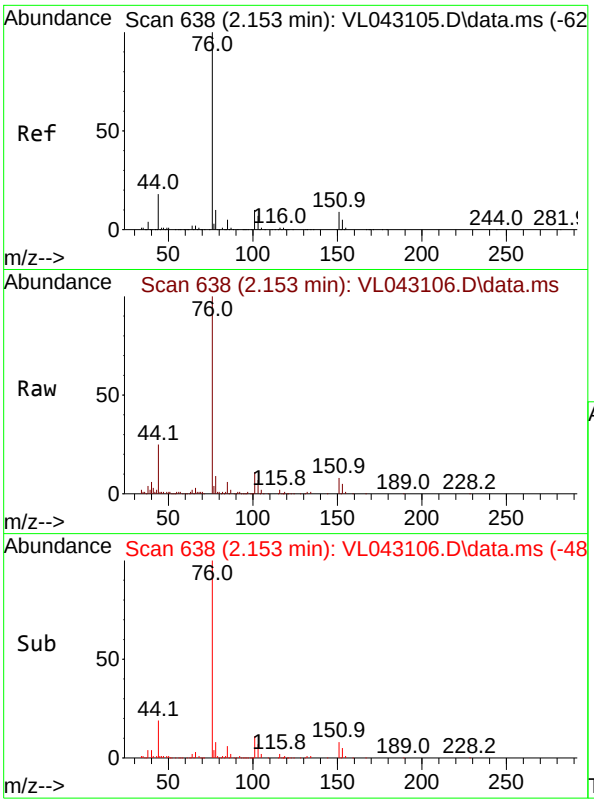


#26
Hexane
Concen: 2.010 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 57 Resp: 32595

Ion	Ratio	Lower	Upper
57	100		
41	96.4	71.4	107.0
43	233.0	178.5	267.7
56	58.8	42.2	63.4



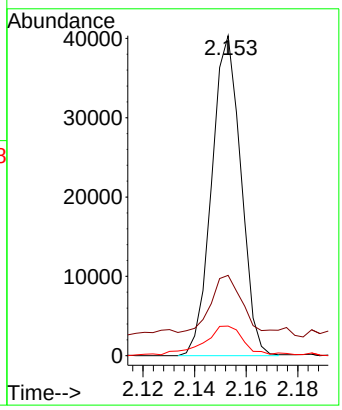


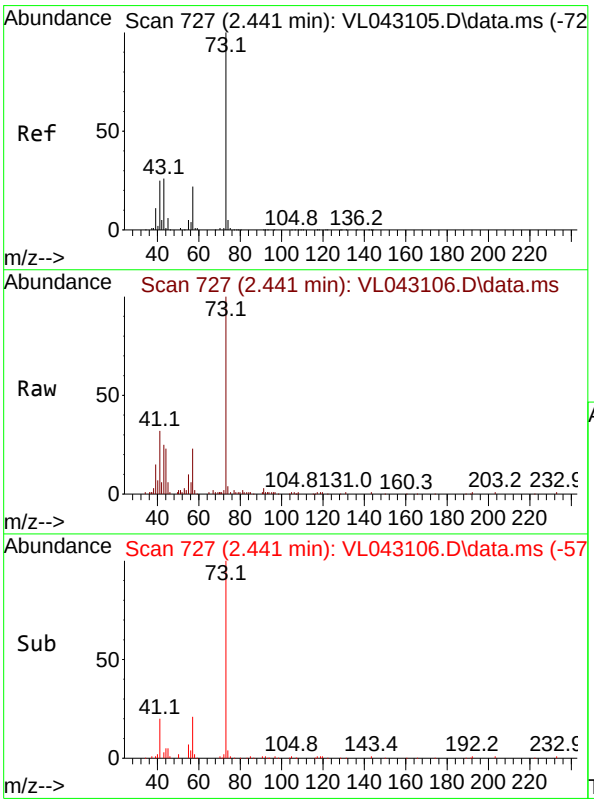
#27
Carbon Disulfide
Concen: 2.134 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 76 Resp: 31705

Ion	Ratio	Lower	Upper
76	100		
44	23.1	16.7	25.1
78	13.6	9.3	13.9

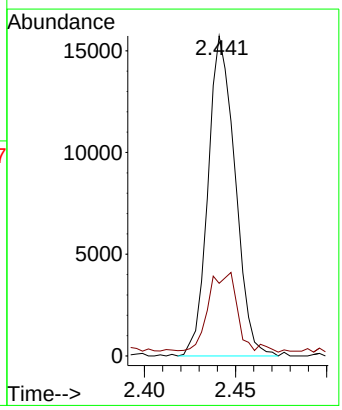


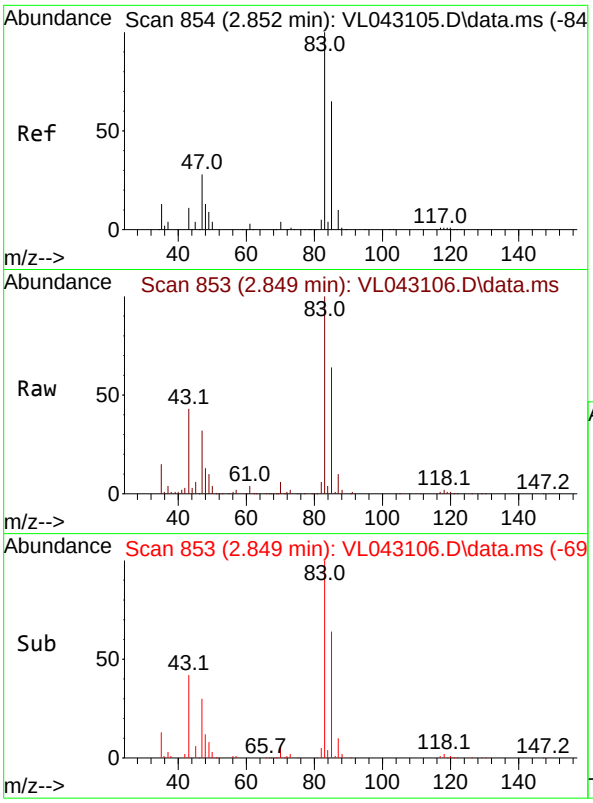


#28
Methyl tert-Butyl Ether
Concen: 2.196 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 73 Resp: 16207

Ion	Ratio	Lower	Upper
73	100		
57	26.6	20.5	30.7



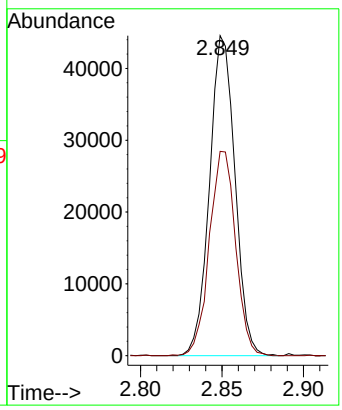


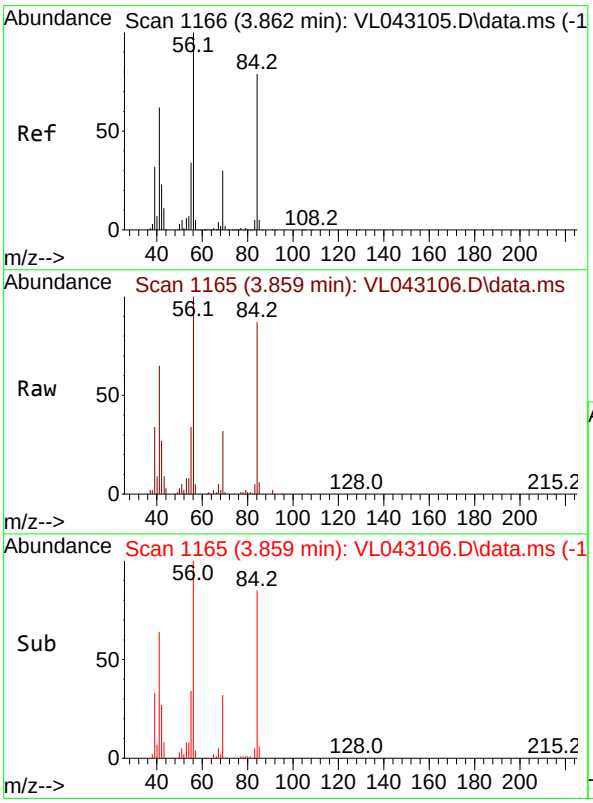
#29
Chloroform
Concen: 2.058 ppbv
RT: 2.849 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 48367

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.8	77.6

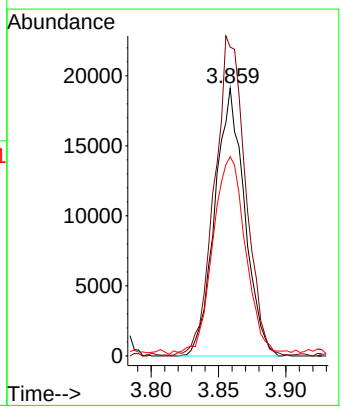


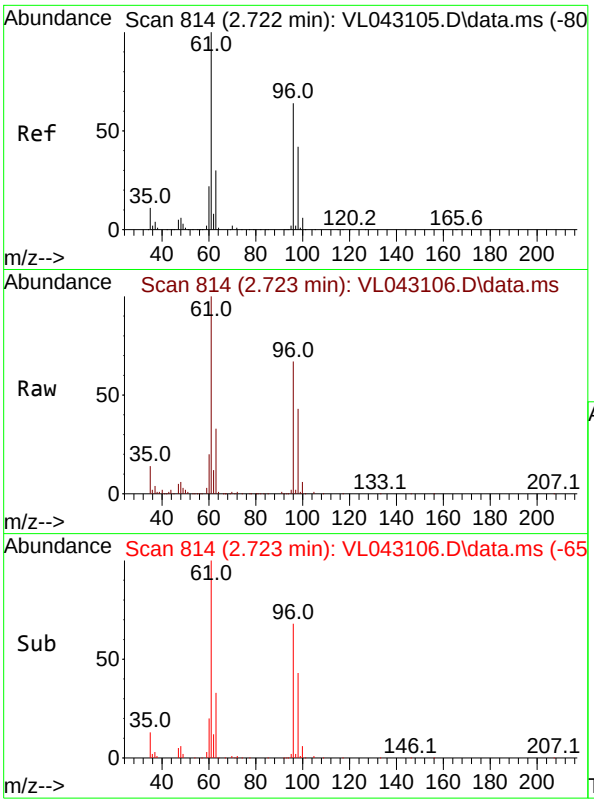


#30
Cyclohexane
Concen: 2.069 ppbv
RT: 3.859 min Scan# 1165
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 84 Resp: 29270

Ion	Ratio	Lower	Upper
84	100		
56	125.6	100.9	151.3
41	79.0	63.8	95.6



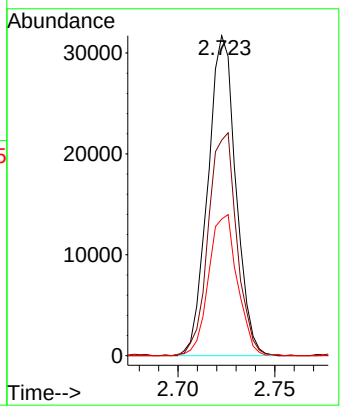


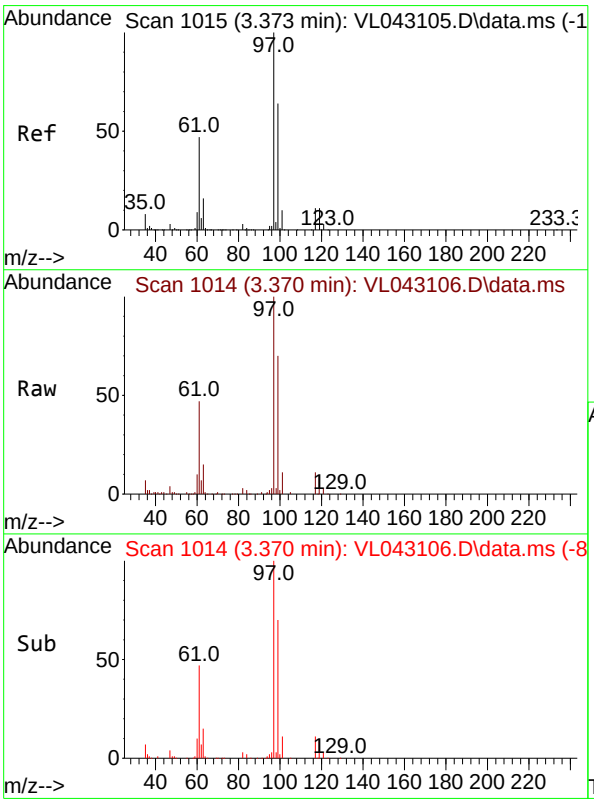
#31
cis-1,2-Dichloroethene
Concen: 2.061 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 61 Resp: 31925

Ion	Ratio	Lower	Upper
61	100		
96	67.3	51.0	76.6
98	42.3	33.5	50.3

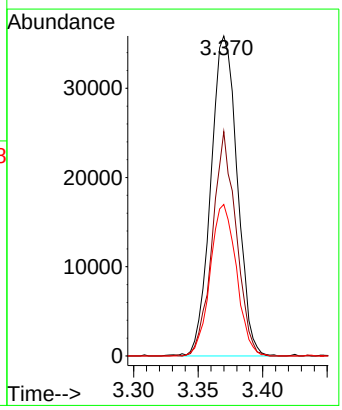


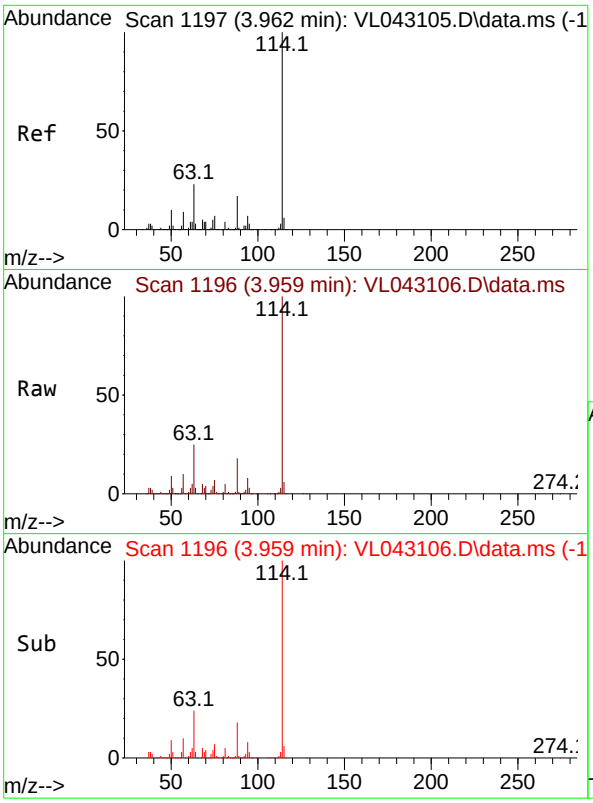


#32
1,1,1-Trichloroethane
Concen: 2.086 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 97 Resp: 51049

Ion	Ratio	Lower	Upper
97	100		
99	62.8	51.3	76.9
61	46.9	38.4	57.6



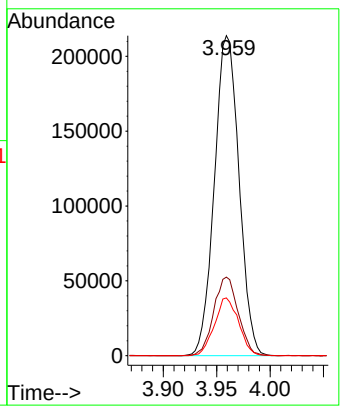


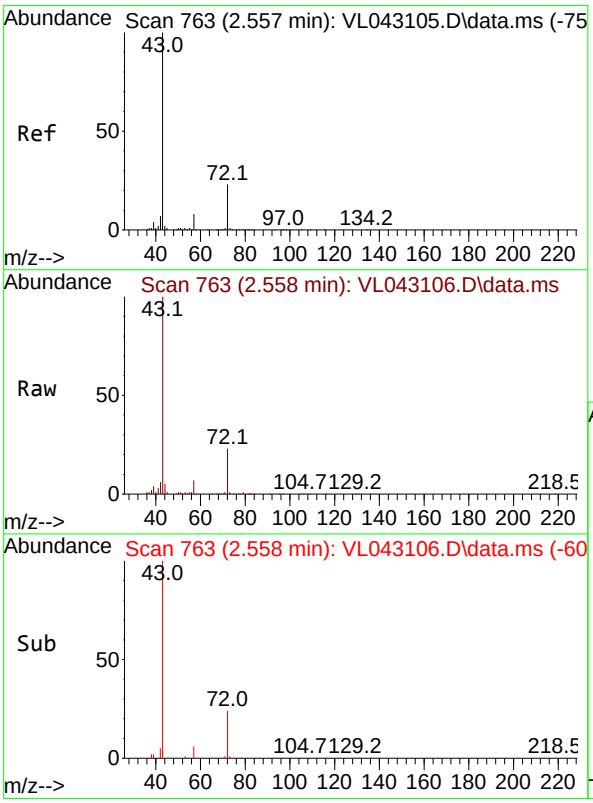
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:114 Resp: 342939

Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.3	28.9
88	17.8	13.9	20.9

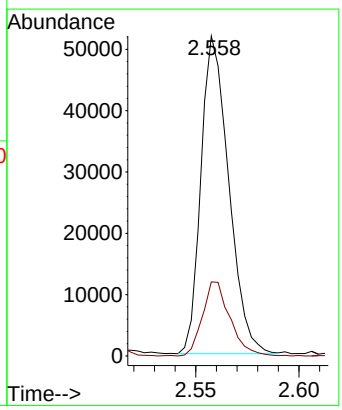


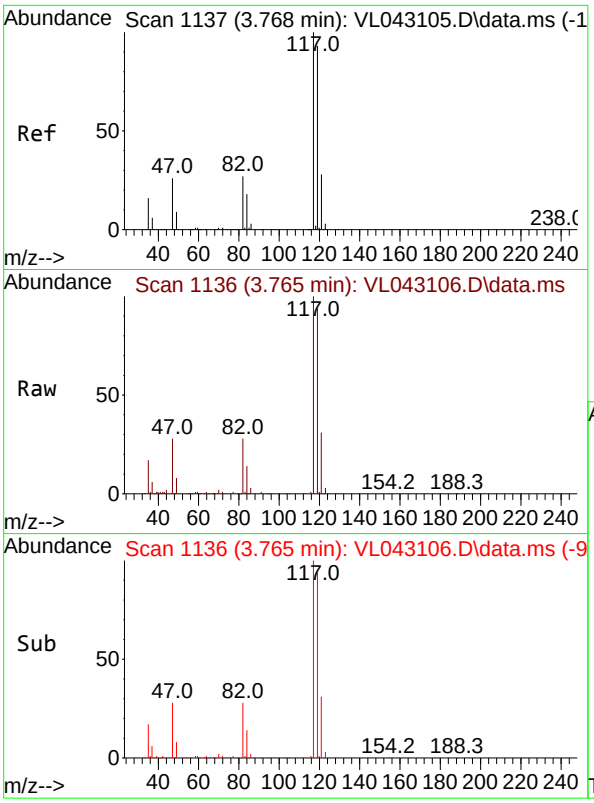


#34
2-Butanone
Concen: 2.090 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 48458

Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.4	27.6



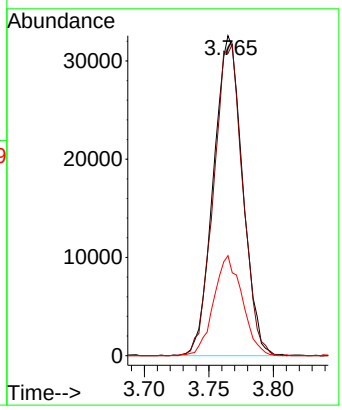


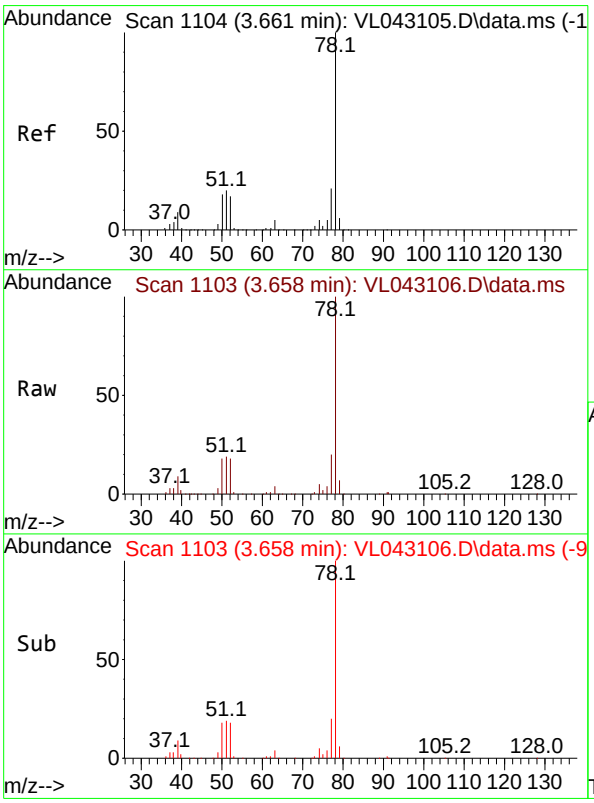
#35
Carbon Tetrachloride
Concen: 2.071 ppbv
RT: 3.765 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 51073

Ion	Ratio	Lower	Upper
117	100		
119	94.2	74.1	111.1
121	31.3	22.2	33.2

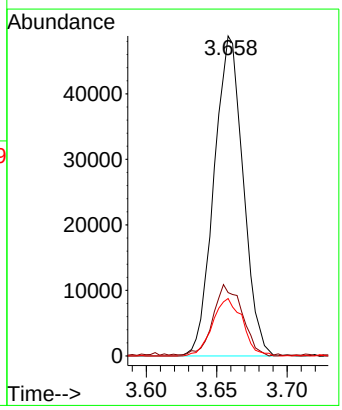


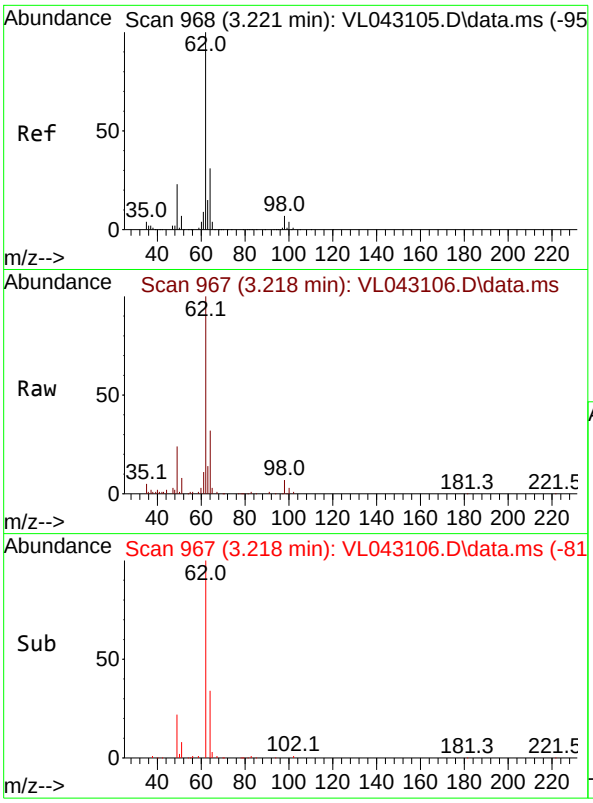


#36
Benzene
Concen: 2.172 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 78 Resp: 70156

Ion	Ratio	Lower	Upper
78	100		
77	19.5	17.0	25.6
50	18.0	14.6	22.0



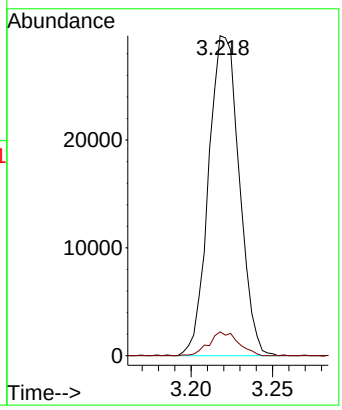


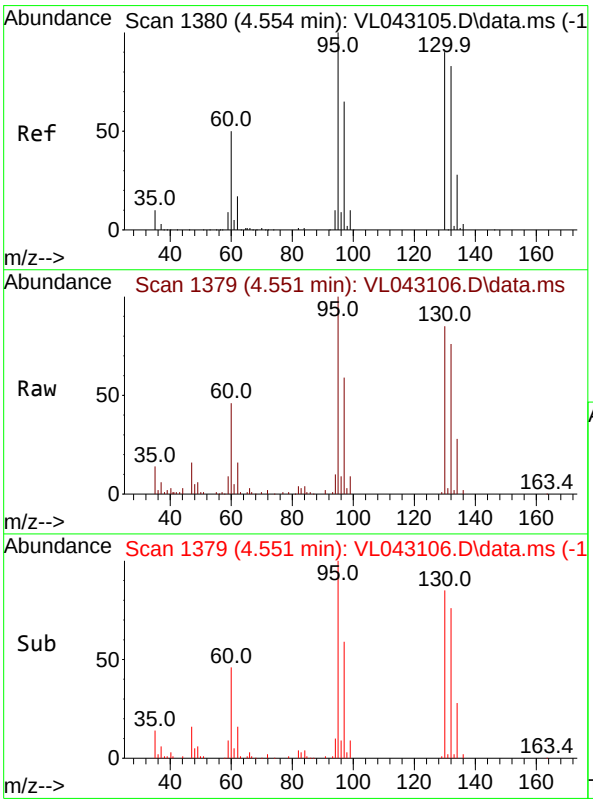
#37
1,2-Dichloroethane
Concen: 2.083 ppbv
RT: 3.218 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 38767

Ion	Ratio	Lower	Upper
62	100		
98	7.3	5.8	8.6

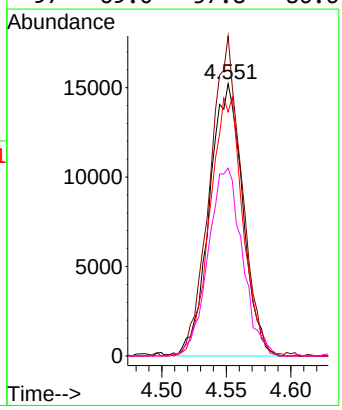


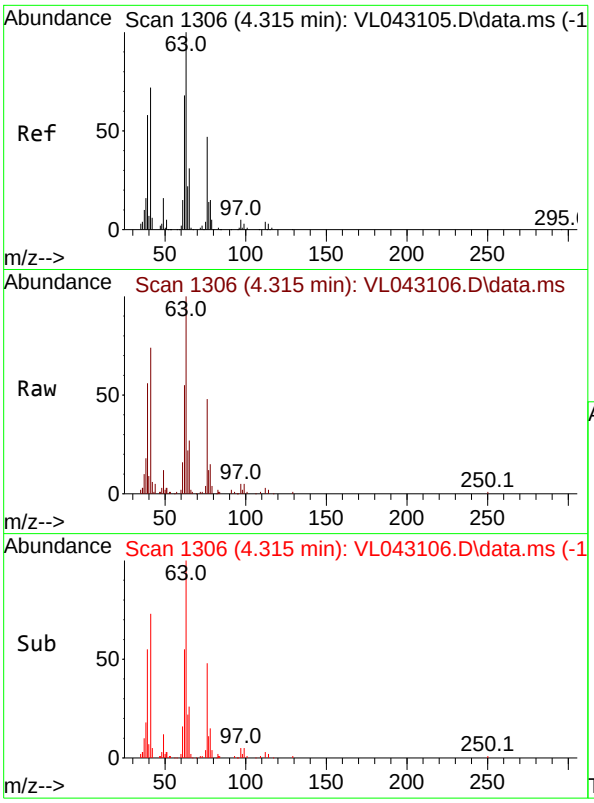


#38
Trichloroethene
Concen: 2.024 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:130 Resp: 27272

Ion	Ratio	Lower	Upper
130	100		
95	117.1	88.6	133.0
132	89.0	73.4	110.0
97	69.0	57.8	86.6



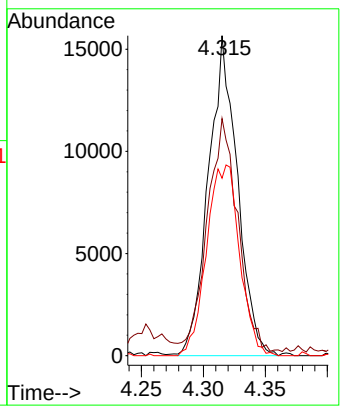


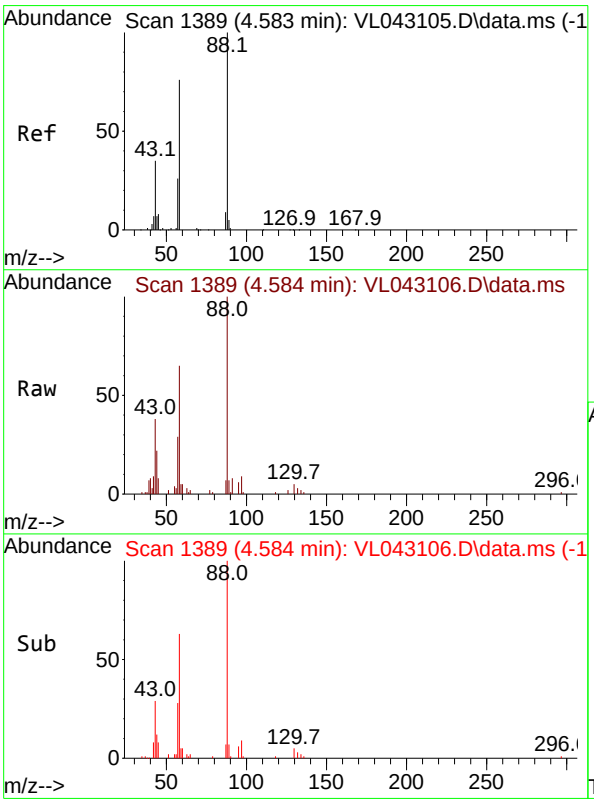
#39
1,2-Dichloropropane
Concen: 2.151 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 63 Resp: 25427

Ion	Ratio	Lower	Upper
63	100		
41	72.3	58.0	87.0
62	55.5	54.7	82.1

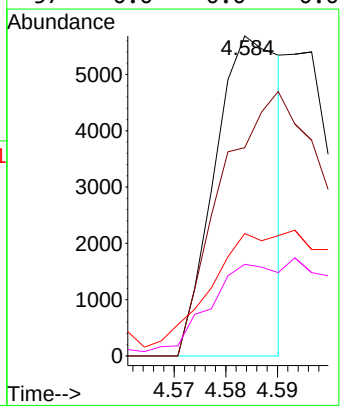


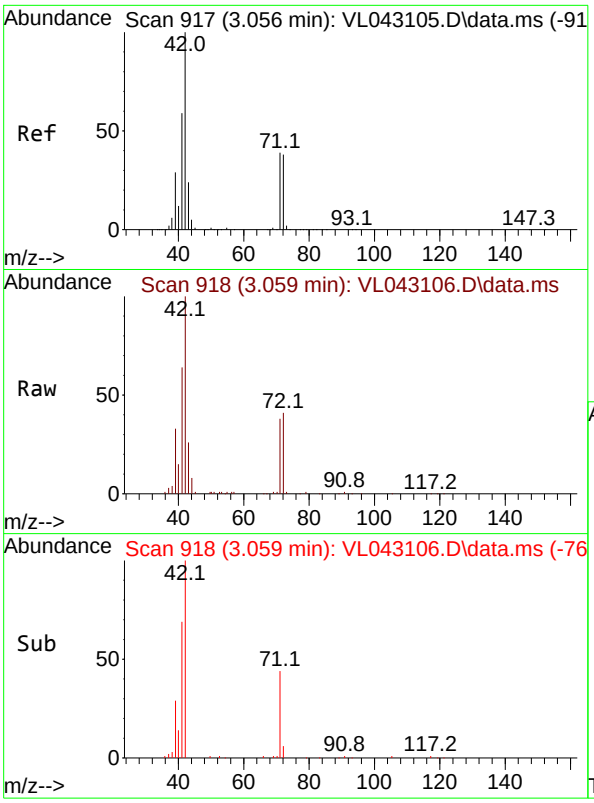


#40
1,4-Dioxane
Concen: 0.938 ppbv
RT: 4.584 min Scan# 1389
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 88 Resp: 4954

Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	0.0	24.0	36.0#
57	0.0	0.0	0.0



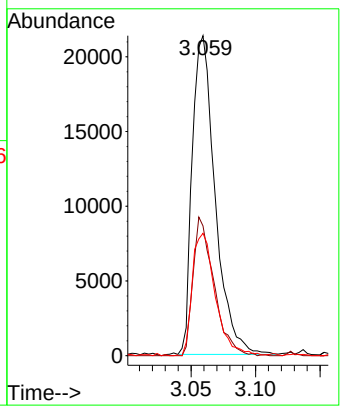


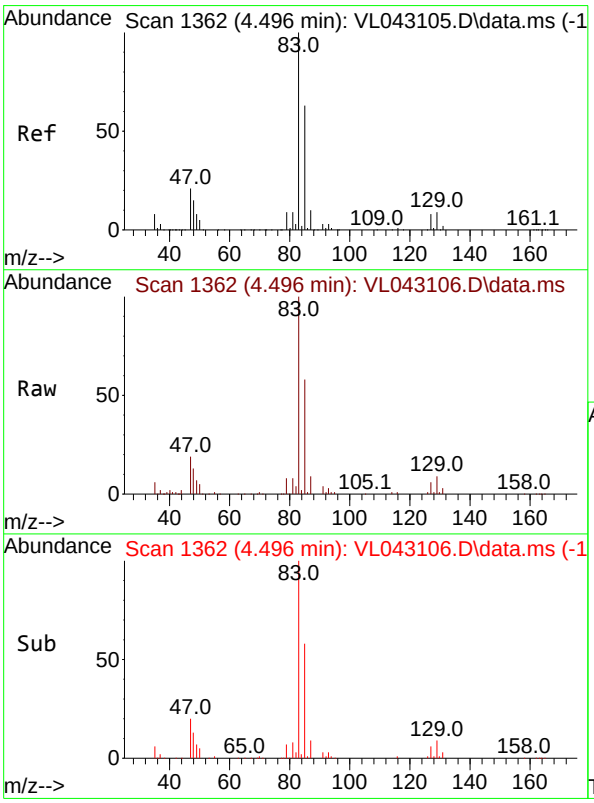
#41
Tetrahydrofuran
Concen: 2.037 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 42 Resp: 26362

Ion	Ratio	Lower	Upper
42	100		
72	39.7	31.3	46.9
71	39.4	30.4	45.6

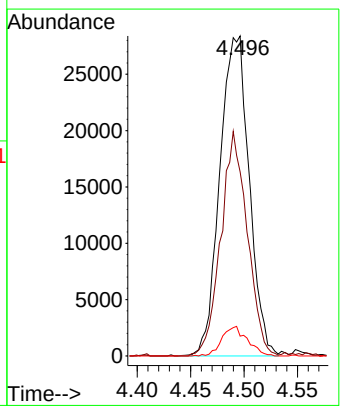


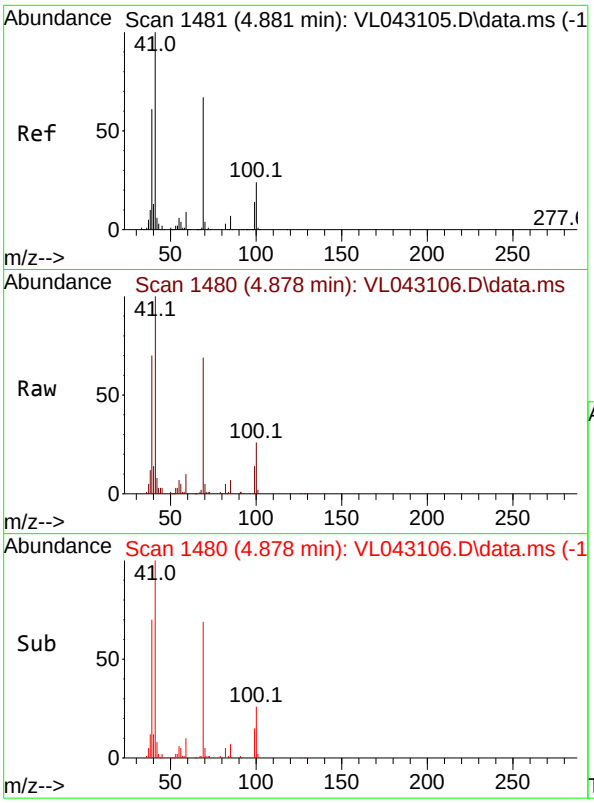


#42
Bromodichloromethane
Concen: 2.106 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 83 Resp: 54224

Ion	Ratio	Lower	Upper
83	100		
85	57.6	50.6	75.8
127	6.2	6.3	9.5#



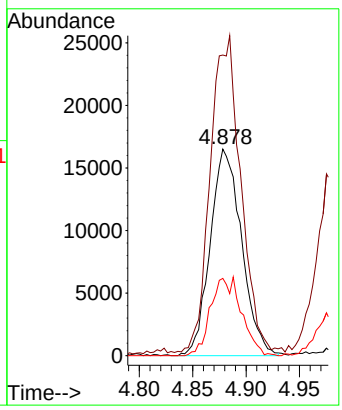


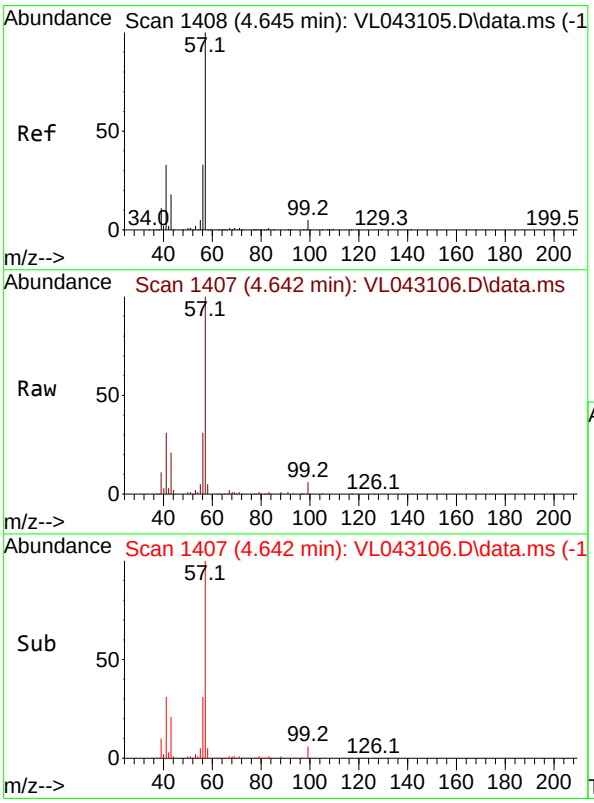
#43
Methyl Methacrylate
Concen: 2.051 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 69 Resp: 33805

Ion	Ratio	Lower	Upper
69	100		
41	151.4	120.5	180.7
100	37.3	29.0	43.4

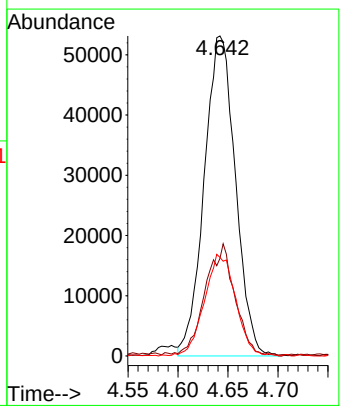


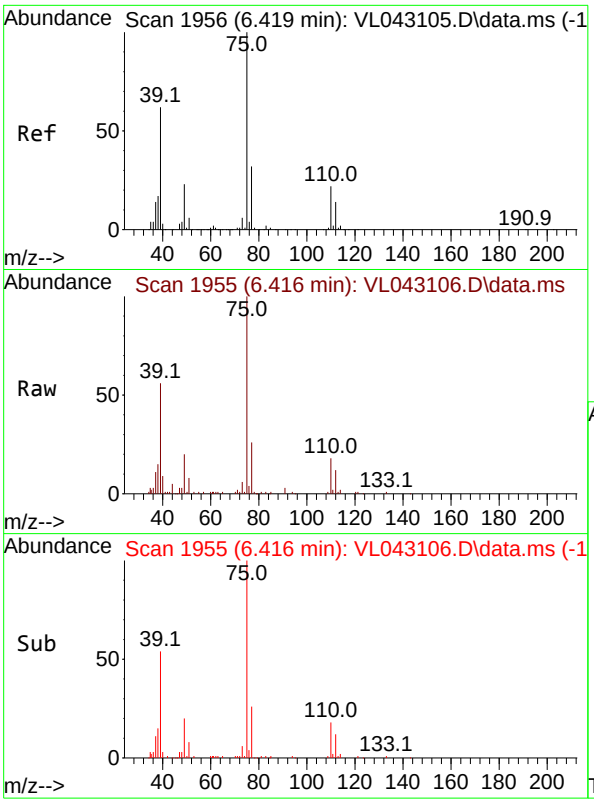


#44
2,2,4-Trimethylpentane
Concen: 2.137 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 57 Resp: 115417

Ion	Ratio	Lower	Upper
57	100		
41	34.0	26.3	39.5
56	31.9	25.9	38.9



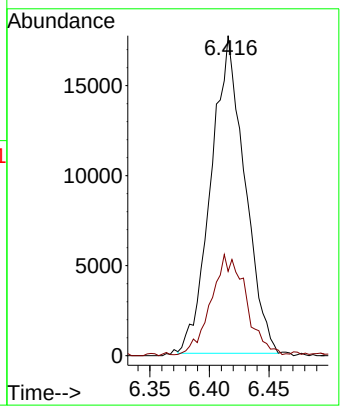


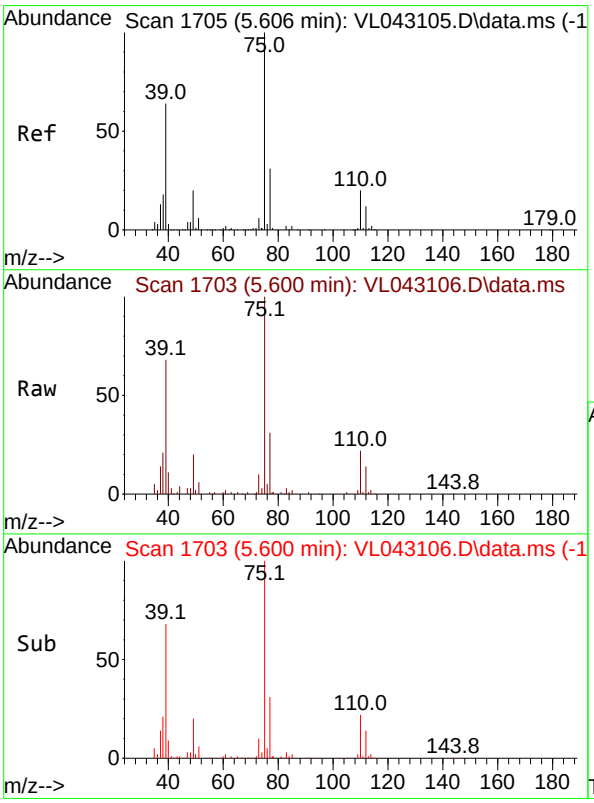
#45
t-1,3-Dichloropropene
Concen: 2.109 ppbv
RT: 6.416 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 75 Resp: 34728

Ion	Ratio	Lower	Upper
75	100		
77	26.3	25.4	38.2

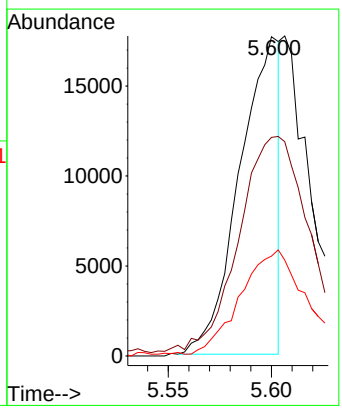


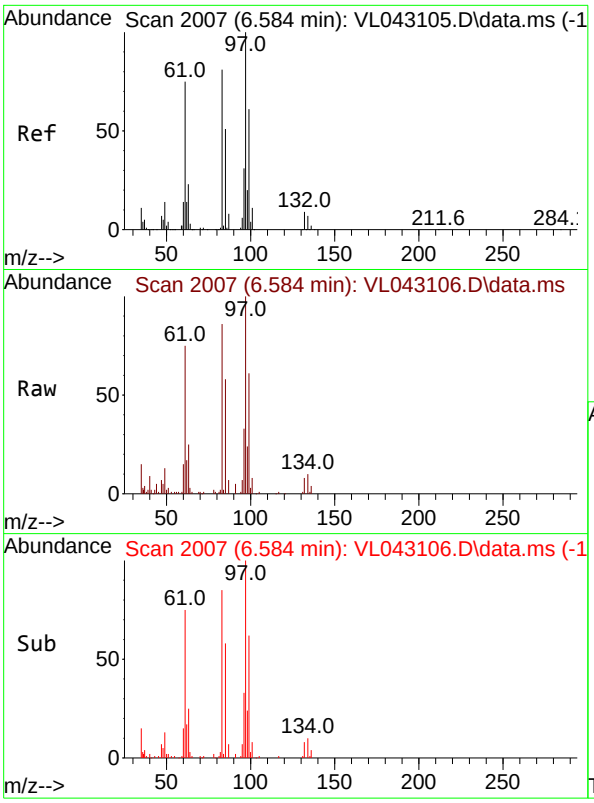


#46
cis-1,3-Dichloropropene
Concen: 1.202 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. -0.006 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 75 Resp: 23612

Ion	Ratio	Lower	Upper
75	100		
39	65.4	51.0	76.6
77	30.3	25.0	37.4



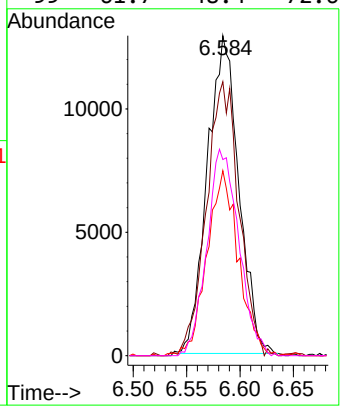


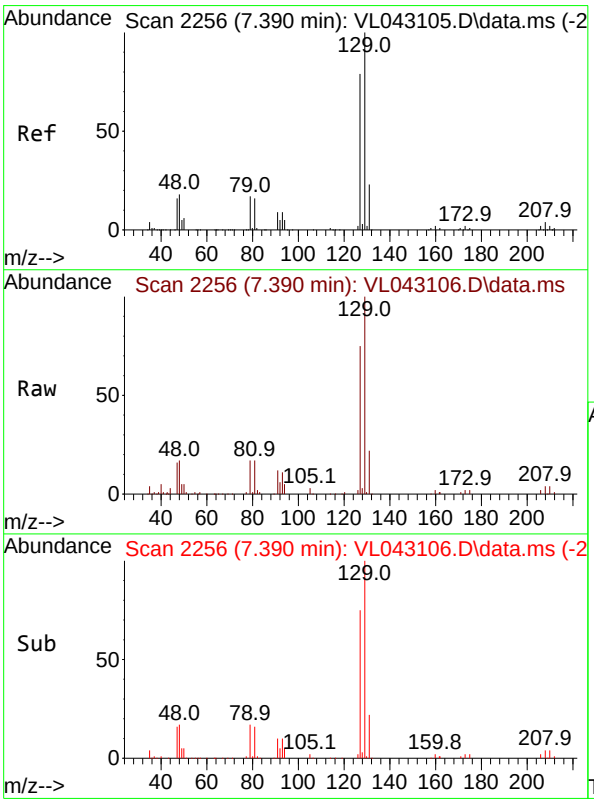
#47
1,1,2-Trichloroethane
Concen: 2.067 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 97 Resp: 26359

Ion	Ratio	Lower	Upper
97	100		
83	86.2	64.6	96.8
85	58.2	40.6	60.8
99	61.7	48.4	72.6

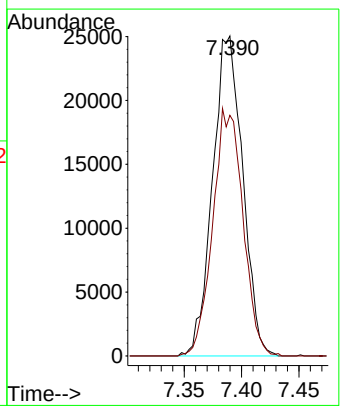


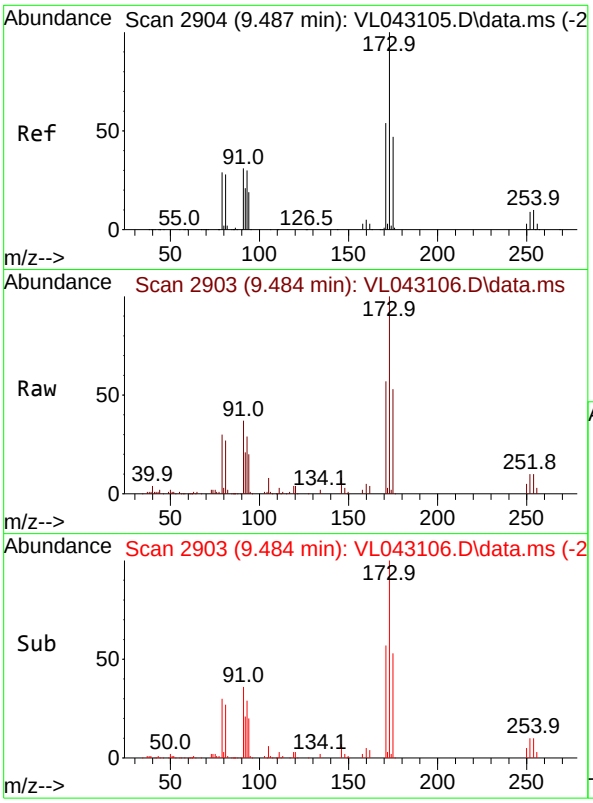


#48
Dibromochloromethane
Concen: 2.146 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:129 Resp: 45751

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.3	117.9



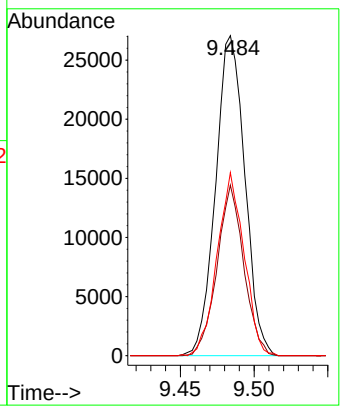


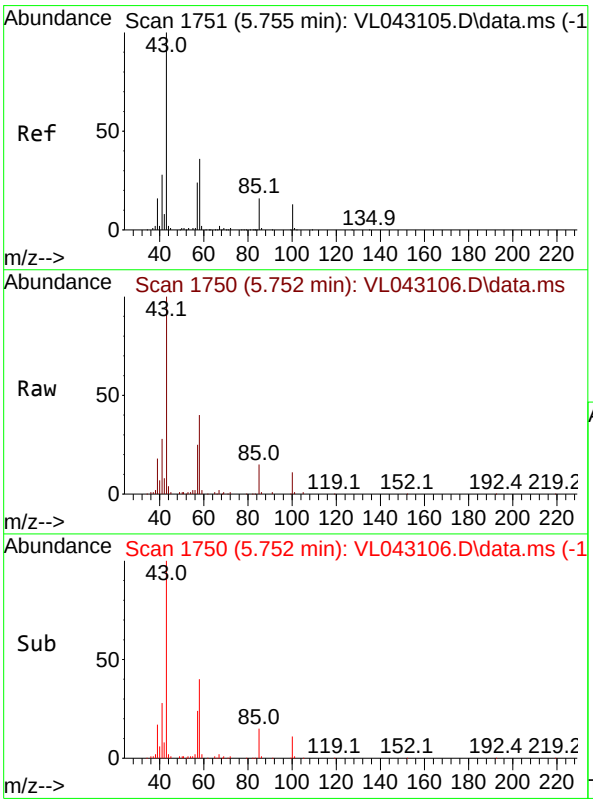
#49
Bromoform
Concen: 2.153 ppbv
RT: 9.484 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:173 Resp: 37314

Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.8	58.2
171	52.7	41.7	62.5

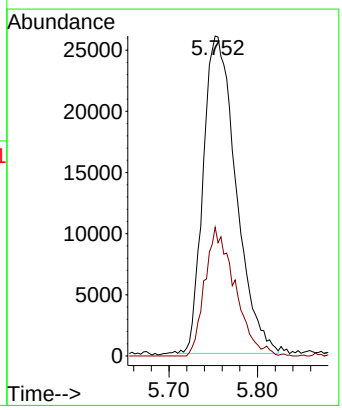


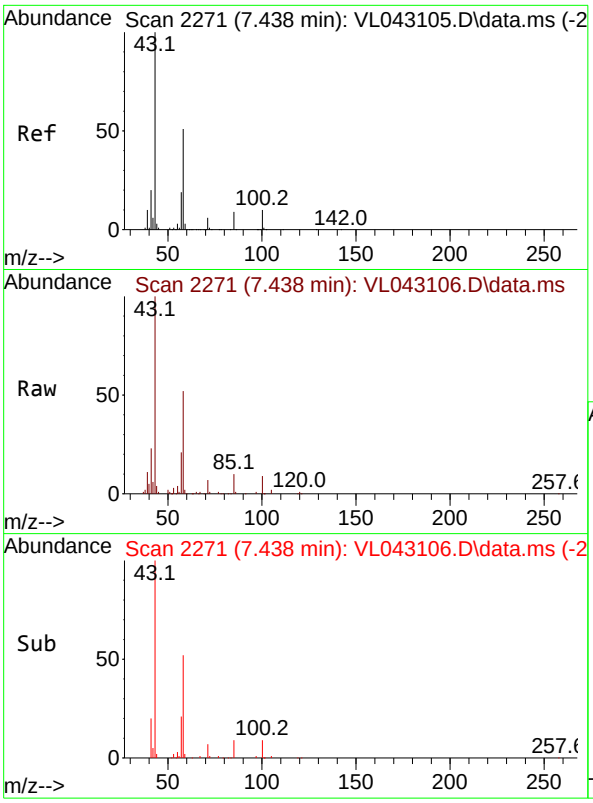


#50
4-Methyl-2-Pentanone
Concen: 2.089 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 66811

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.1	43.7



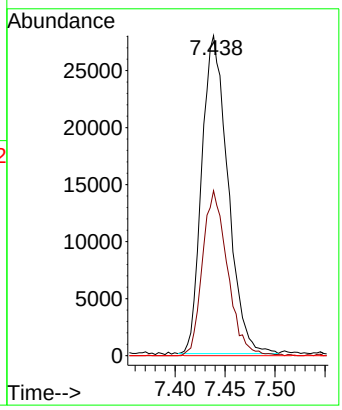


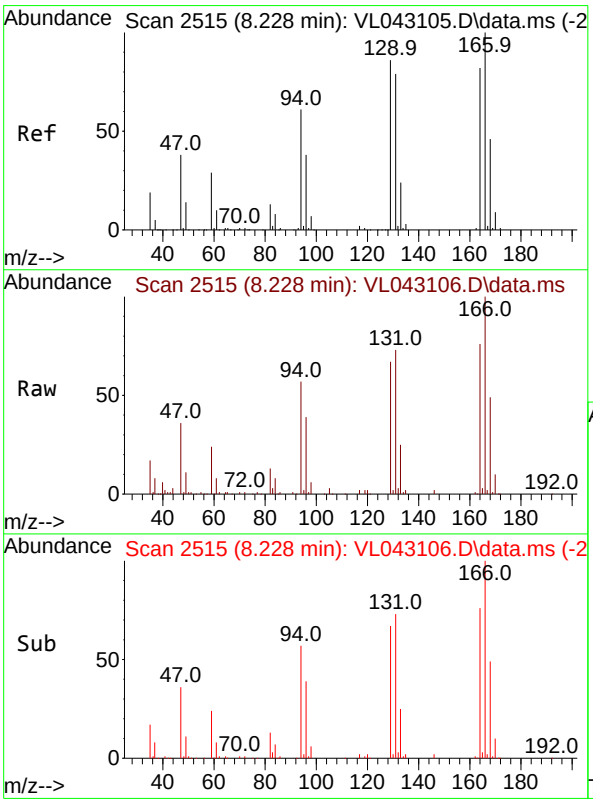
#51
2-Hexanone
Concen: 2.122 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 50642

Ion	Ratio	Lower	Upper
43	100		
58	49.8	40.4	60.6
98	0.0	0.1	0.1#

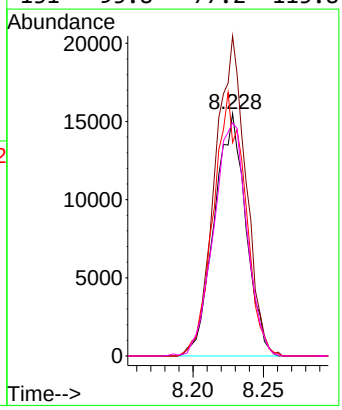


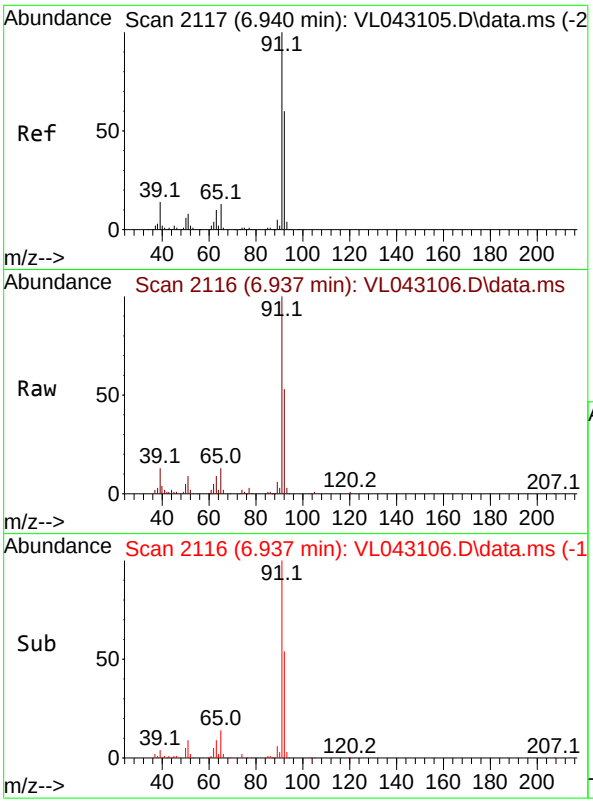


#52
Tetrachloroethene
Concen: 2.076 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:164 Resp: 24183

Ion	Ratio	Lower	Upper
164	100		
166	132.0	97.6	146.4
129	88.0	84.5	126.7
131	95.8	77.2	115.8



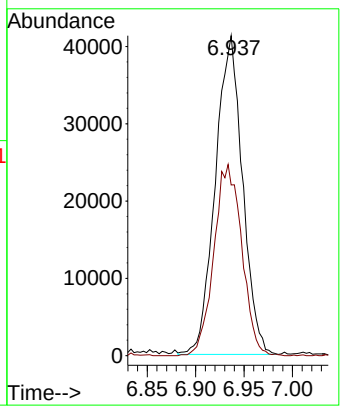


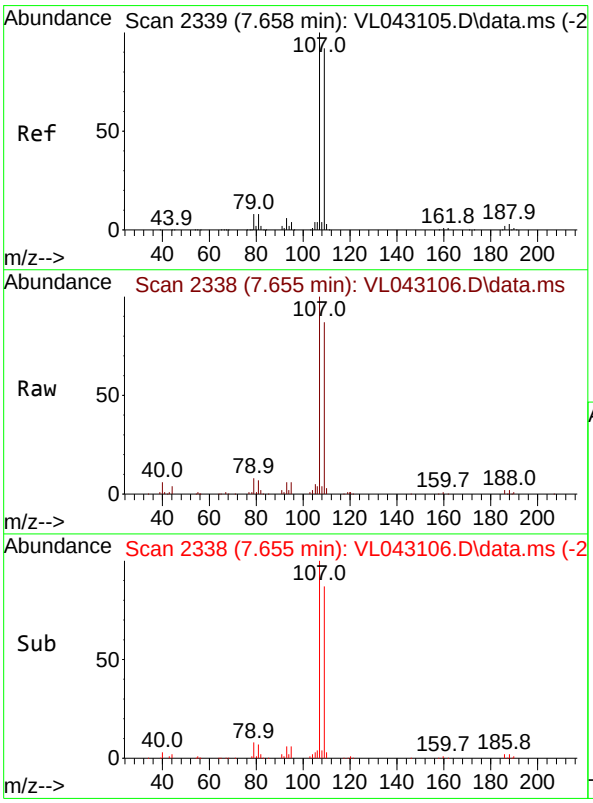
#53
Toluene
Concen: 2.104 ppbv
RT: 6.937 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 80660

Ion	Ratio	Lower	Upper
91	100		
92	61.5	48.8	73.2

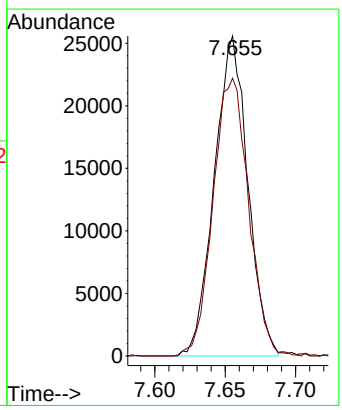


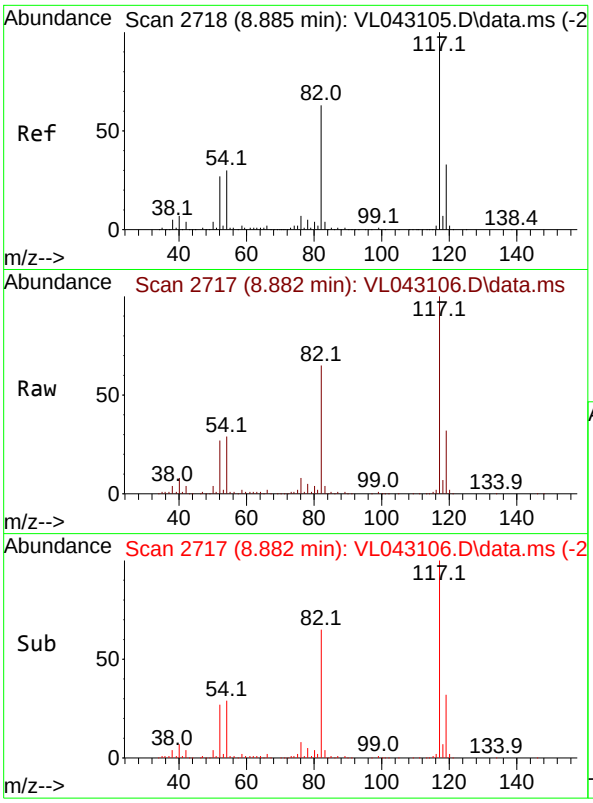


#54
1,2-Dibromoethane
Concen: 2.103 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:107 Resp: 42320

Ion	Ratio	Lower	Upper
107	100		
109	86.5	73.4	110.2



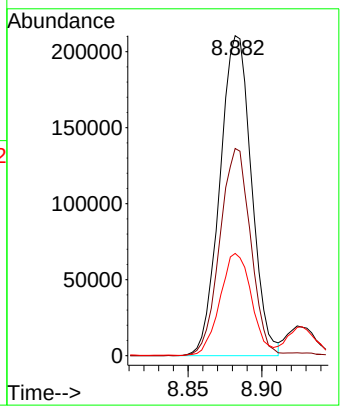


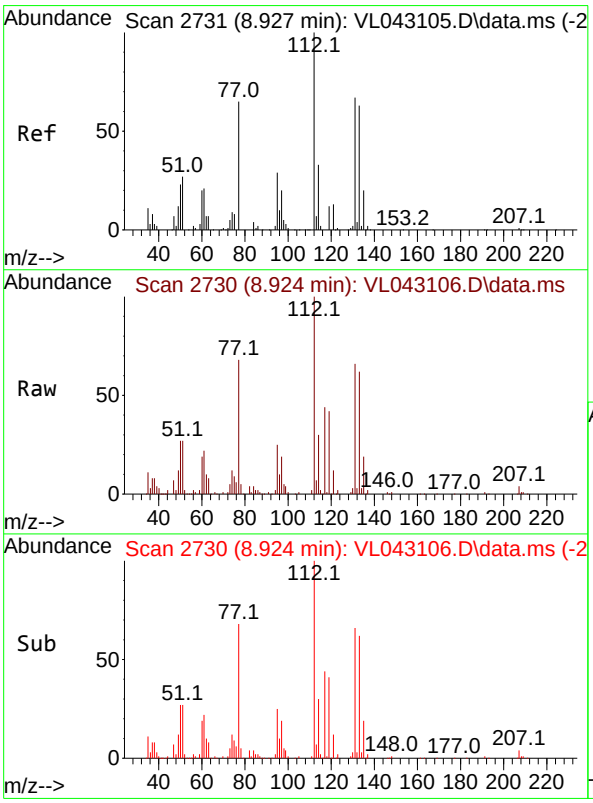
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 313603

Ion	Ratio	Lower	Upper
117	100		
82	63.9	53.8	80.8
119	32.3	25.4	38.0

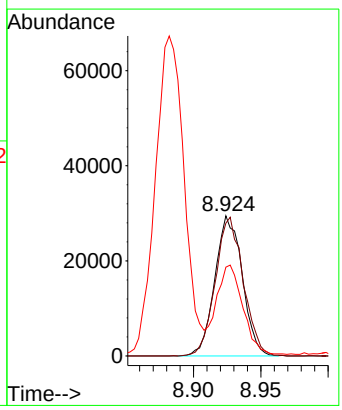


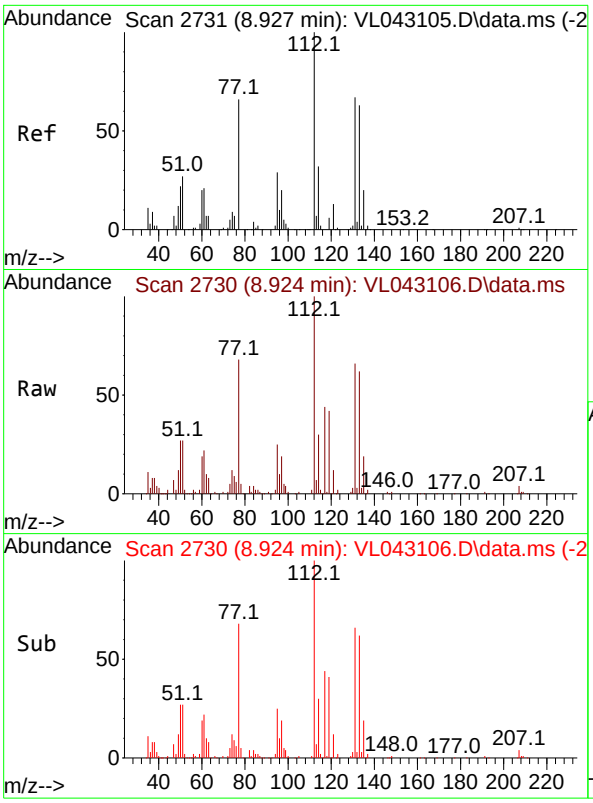


#56
1,1,1,2-Tetrachloroethane
Concen: 2.110 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:131 Resp: 41712

Ion	Ratio	Lower	Upper
131	100		
133	101.2	75.7	113.5
119	59.2	50.6	76.0



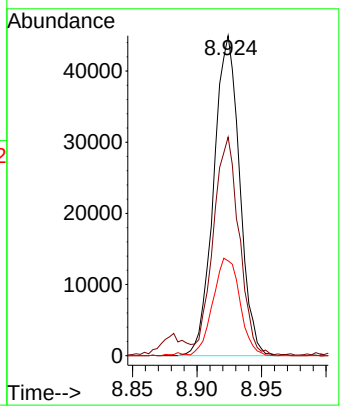


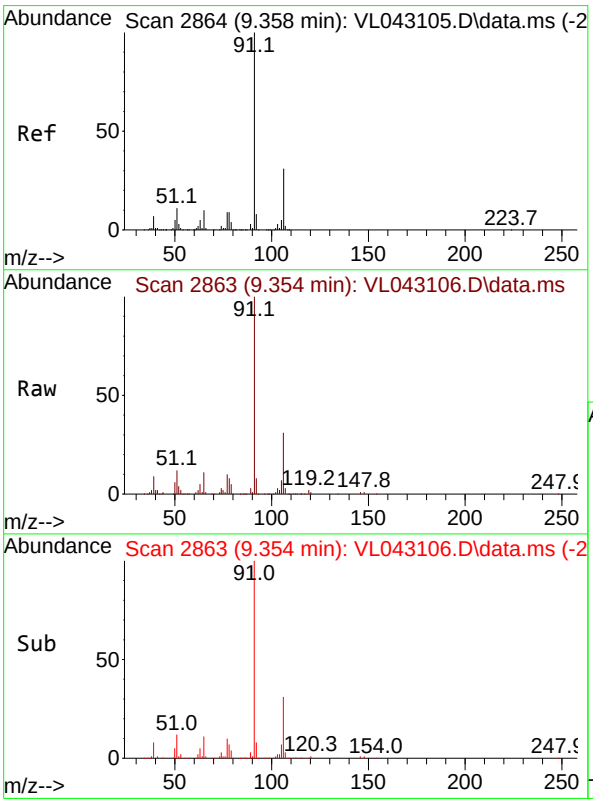
#57
Chlorobenzene
Concen: 2.138 ppbv
RT: 8.924 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:112 Resp: 62714

Ion	Ratio	Lower	Upper
112	100		
77	67.8	53.3	79.9
114	29.6	29.3	35.8

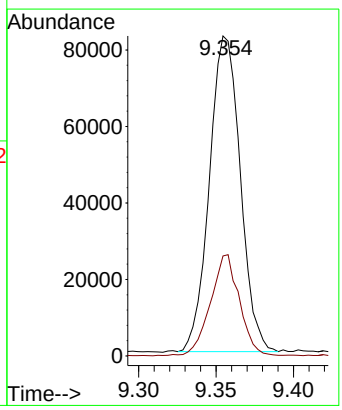


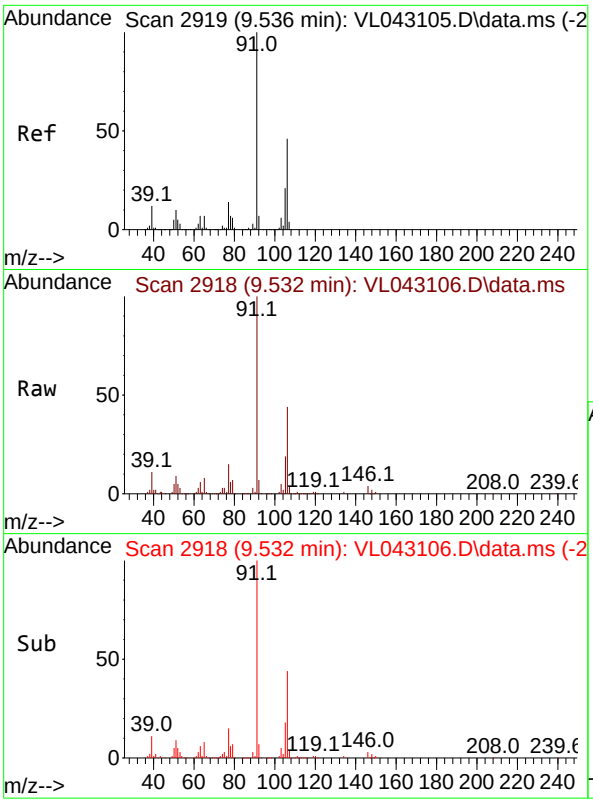


#58
Ethyl Benzene
Concen: 2.109 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 114403

Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.8	37.2



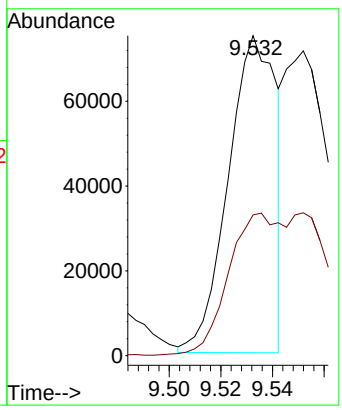


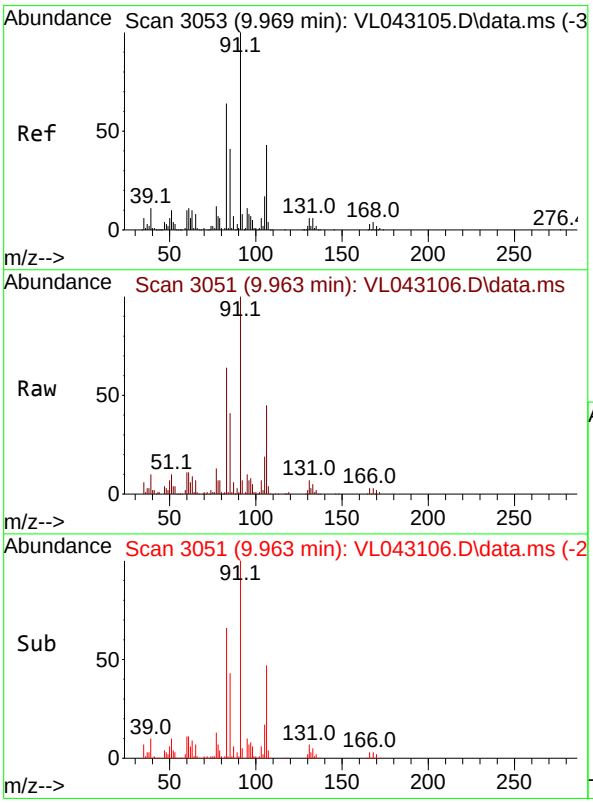
#59
m/p-Xylene
Concen: 2.238 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 96158

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

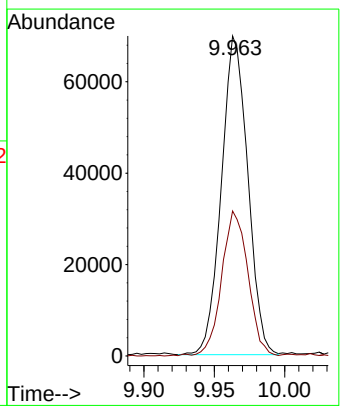


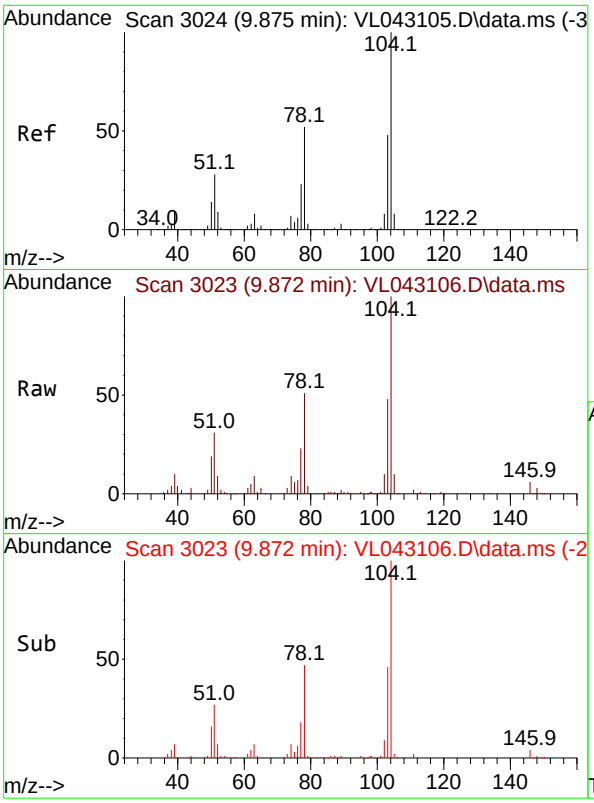


#60
o-Xylene
Concen: 2.152 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.006 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 91223

Ion	Ratio	Lower	Upper
91	100		
106	45.2	21.9	65.8



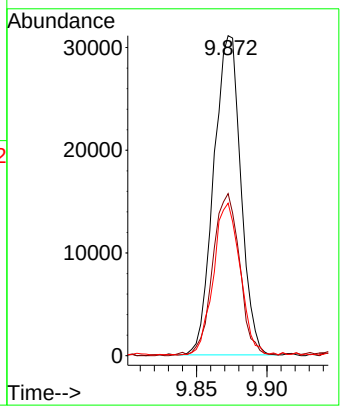


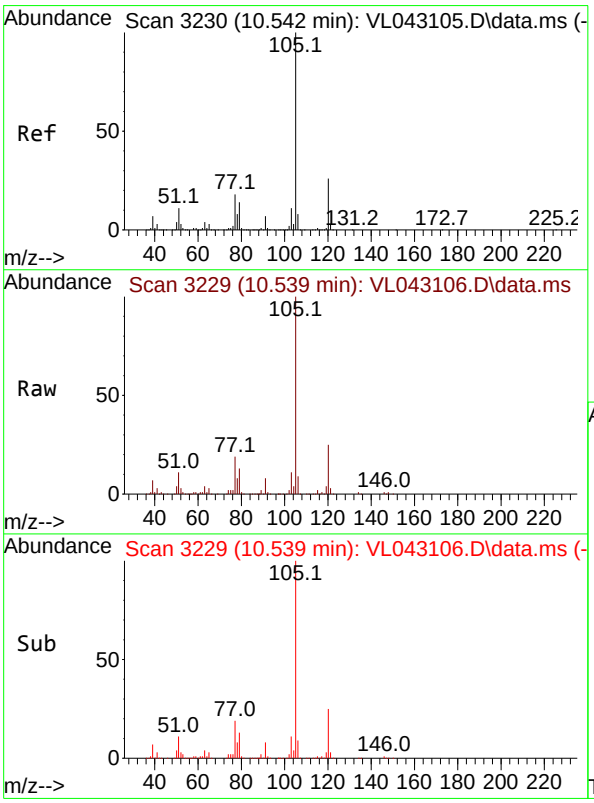
#61
Styrene
Concen: 2.175 ppbv
RT: 9.872 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:104 Resp: 41631

Ion	Ratio	Lower	Upper
104	100		
78	51.1	40.2	60.2
103	47.4	36.9	55.3

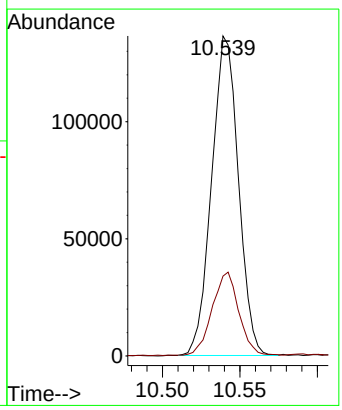


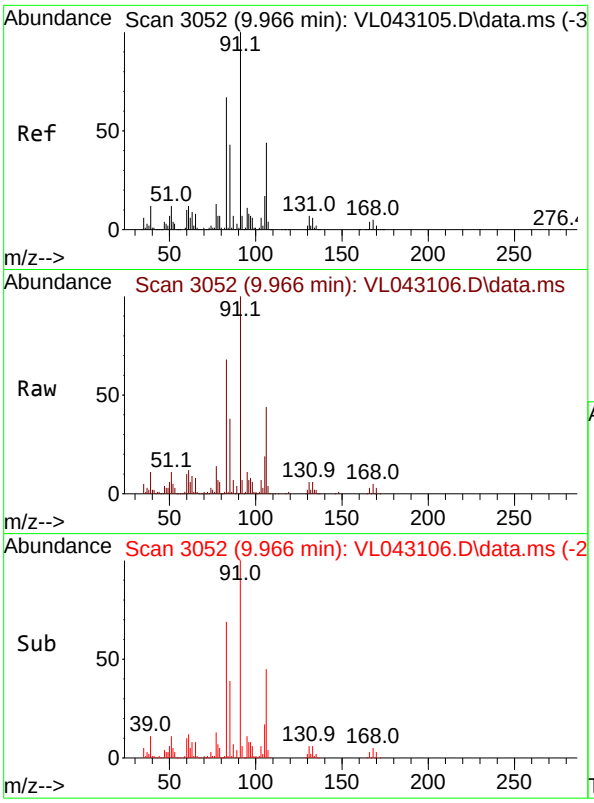


#62
Isopropylbenzene
Concen: 2.142 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 164073

Ion	Ratio	Lower	Upper
105	100		
120	26.1	20.2	30.4



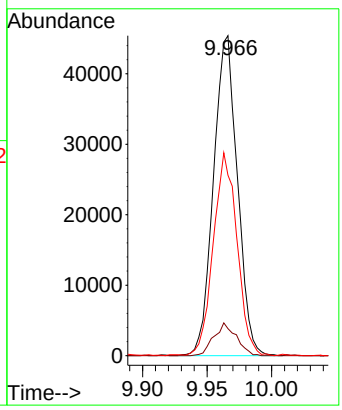


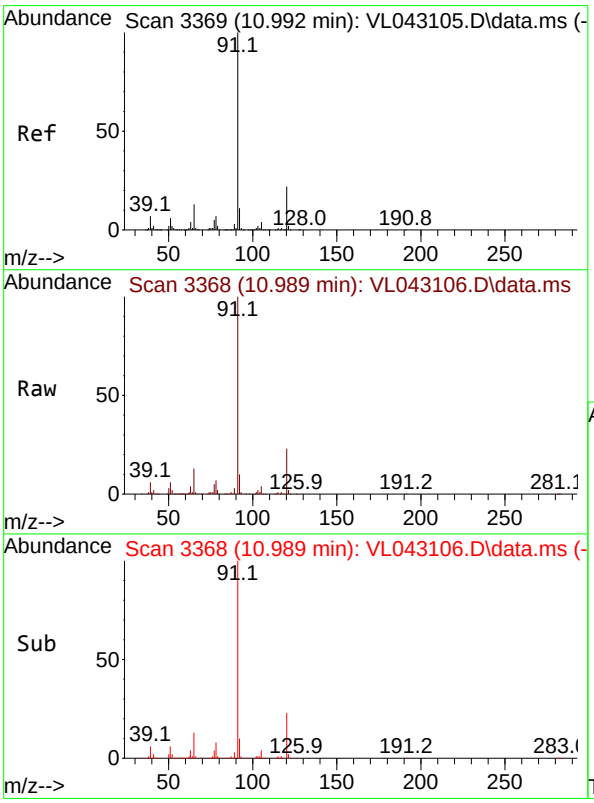
#63
1,1,2,2-Tetrachloroethane
Concen: 2.061 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 58510

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	63.2	32.0	96.0

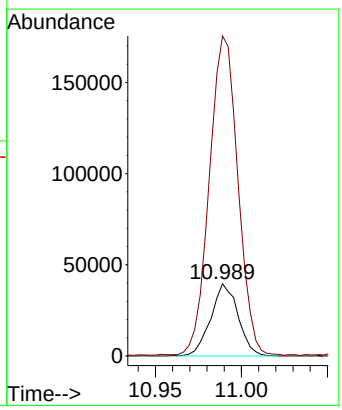


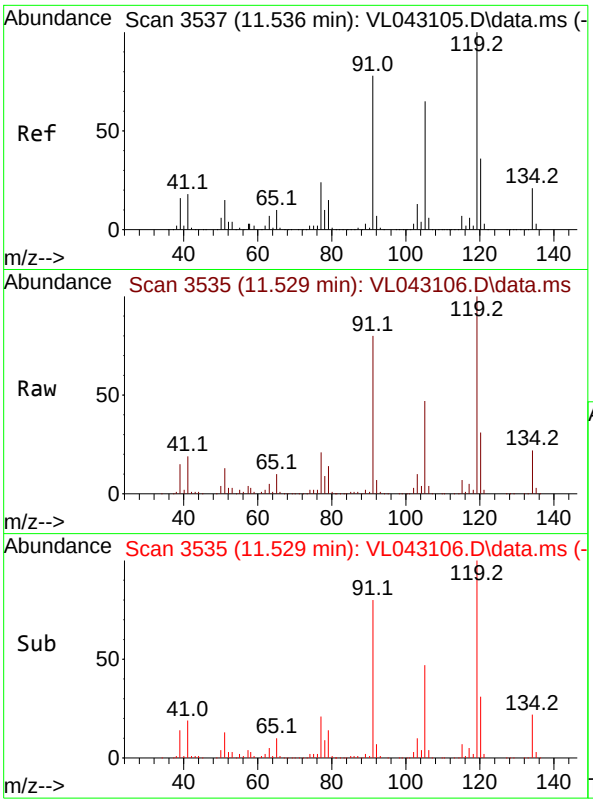


#64
n-propylbenzene
Concen: 2.152 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:120 Resp: 43648

Ion	Ratio	Lower	Upper
120	100		
91	462.4	361.6	542.4



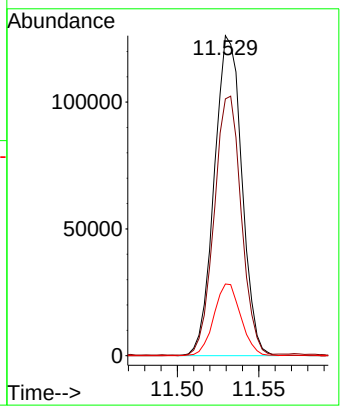


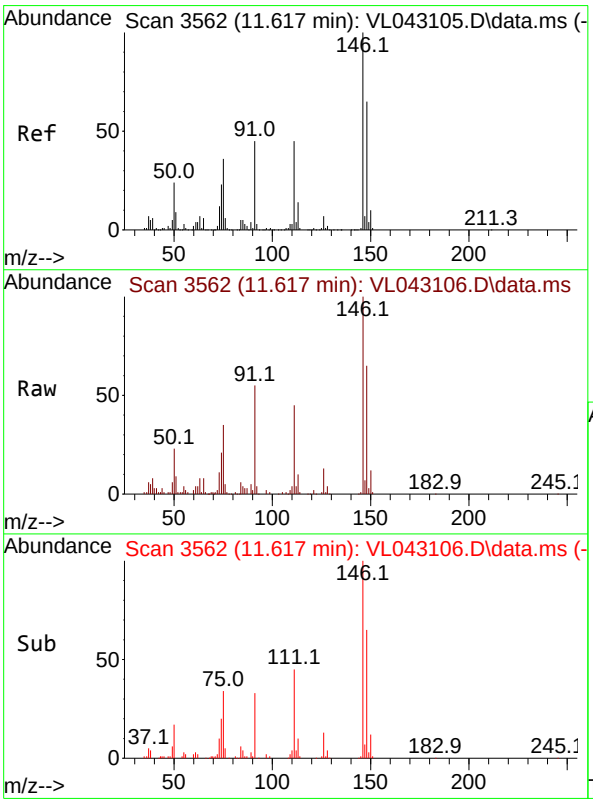
#65
tert-Butylbenzene
Concen: 2.192 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:119 Resp: 148300

Ion	Ratio	Lower	Upper
119	100		
91	80.2	63.4	95.0
134	22.0	17.3	25.9

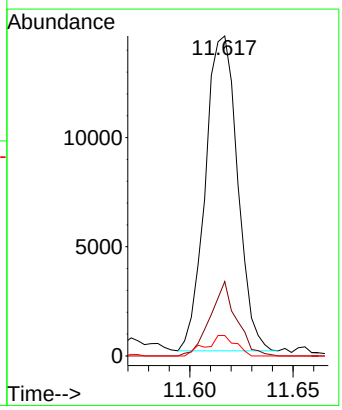


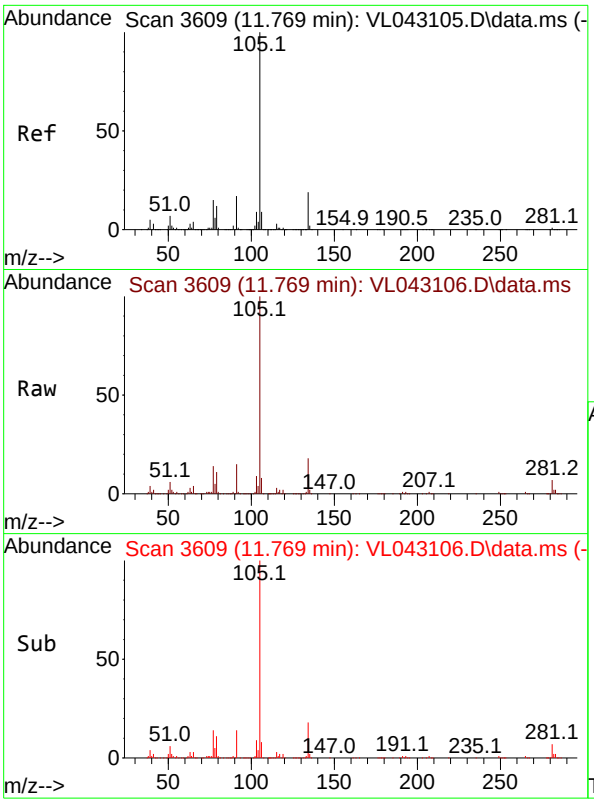


#66
Benzyl Chloride
Concen: 2.072 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 15656

Ion	Ratio	Lower	Upper
91	100		
126	19.2	14.6	22.0
128	5.9	4.6	6.8



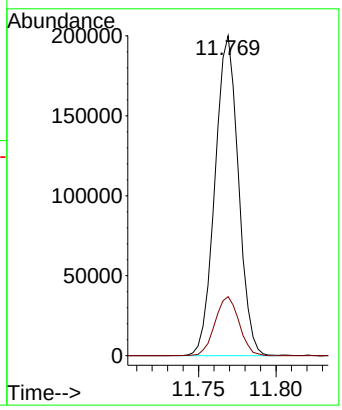


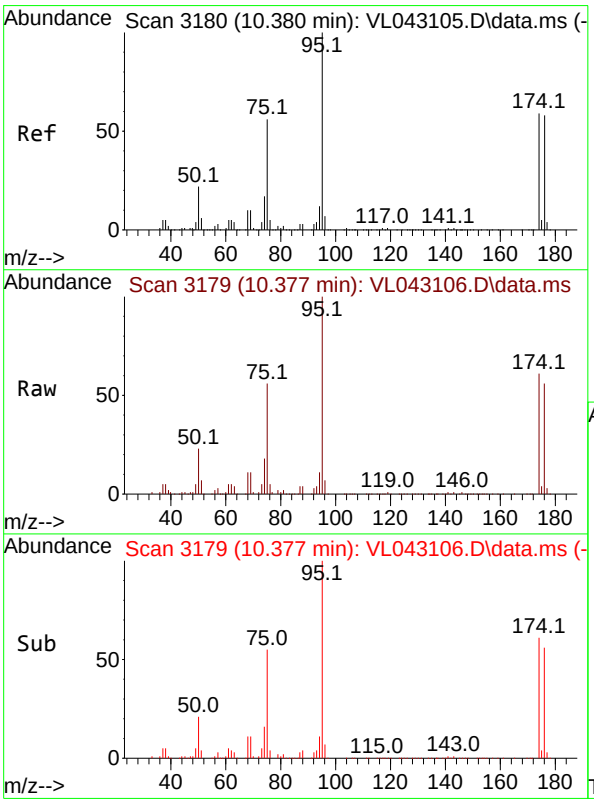
#67
sec-Butylbenzene
Concen: 2.193 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 210525

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.5	23.3

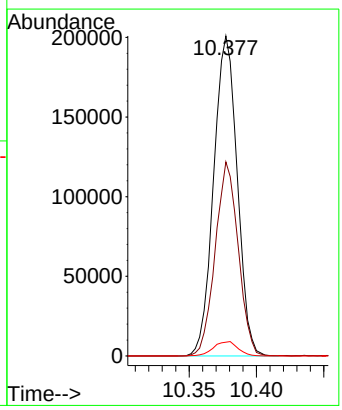


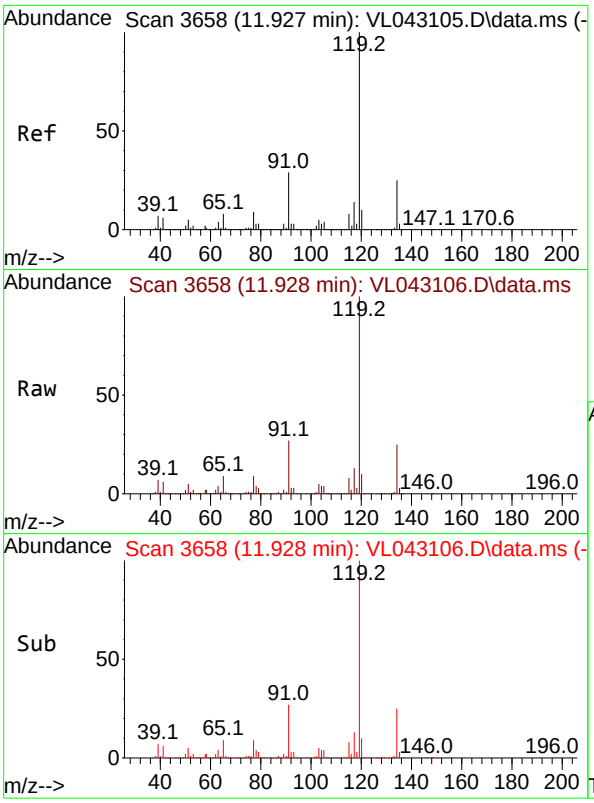


#68
1-Bromo-4-Fluorobenzene
Concen: 10.024 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 95 Resp: 244329

Ion	Ratio	Lower	Upper
95	100		
174	59.2	48.3	72.5
175	4.7	3.8	5.8



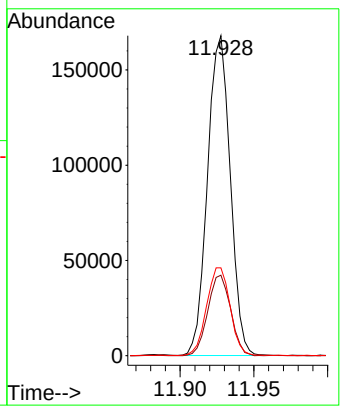


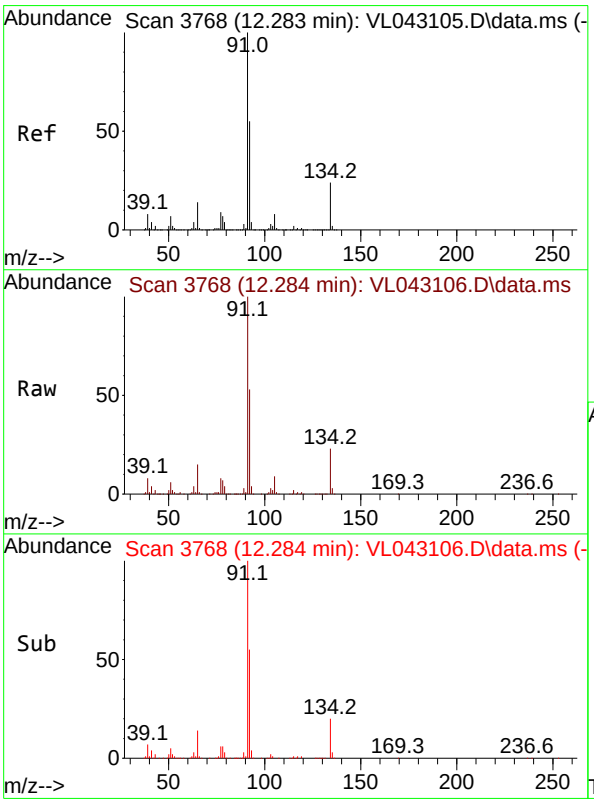
#69
p-Isopropyltoluene
Concen: 2.207 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:119 Resp: 180060

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	29.0	22.6	33.8

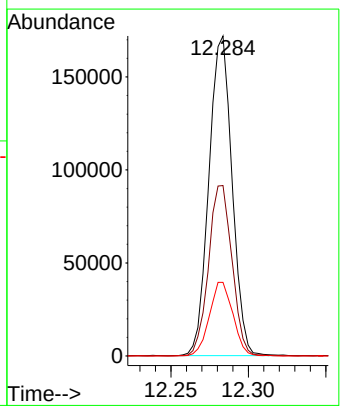


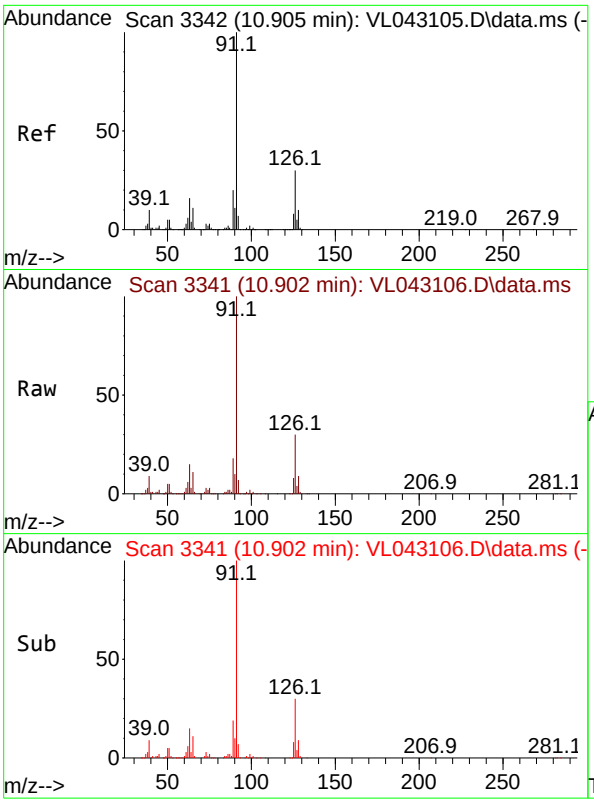


#70
n-Butylbenzene
Concen: 2.222 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 178676

Ion	Ratio	Lower	Upper
91	100		
92	54.2	44.5	66.7
134	23.4	19.3	28.9



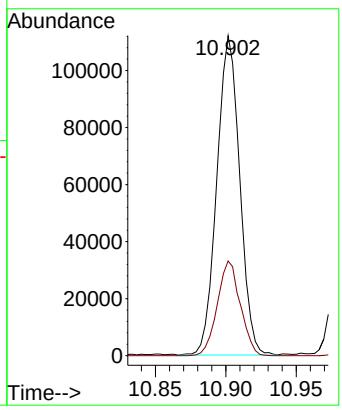


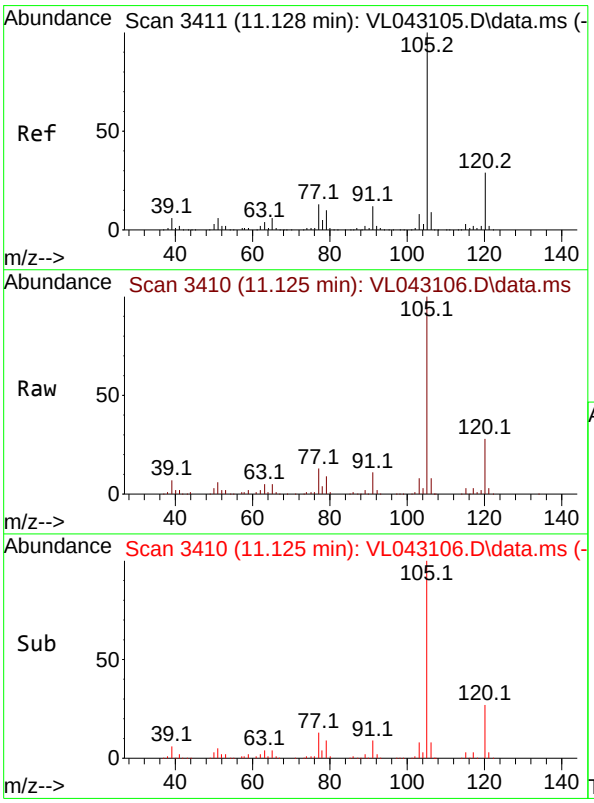
#71
2-Chlorotoluene
Concen: 2.166 ppbv
RT: 10.902 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 126551

Ion	Ratio	Lower	Upper
91	100		
126	29.7	12.0	48.0

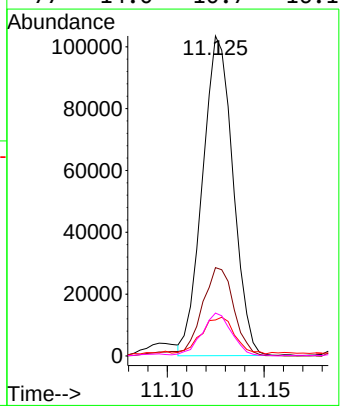


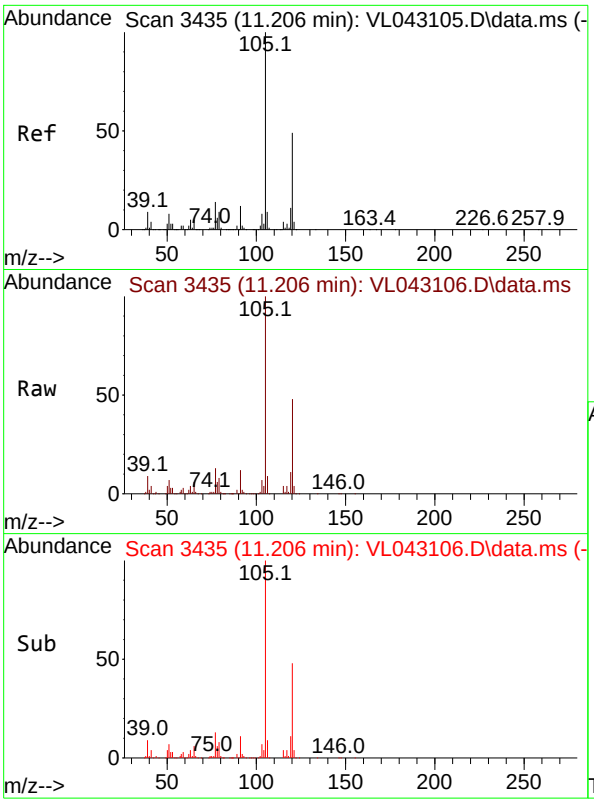


#72
4-Ethyltoluene
Concen: 2.172 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 113233

Ion	Ratio	Lower	Upper
105	100		
120	29.8	24.2	36.4
91	14.8	10.0	15.0
77	14.0	10.7	16.1



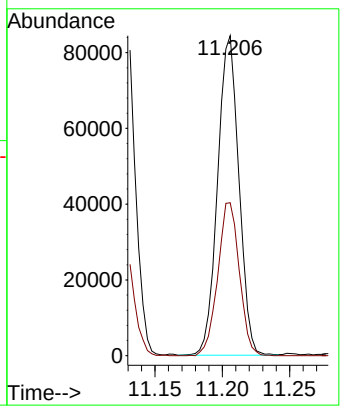


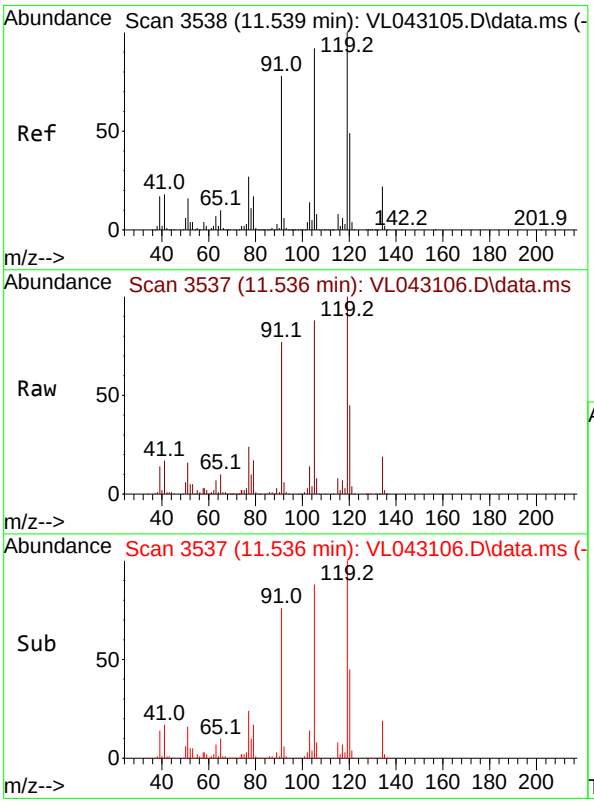
#73
1,3,5-Trimethylbenzene
Concen: 2.155 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 92650

Ion	Ratio	Lower	Upper
105	100		
120	47.9	39.0	58.6

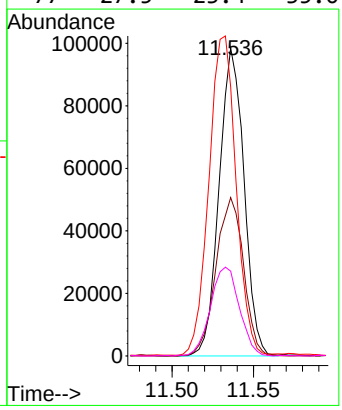


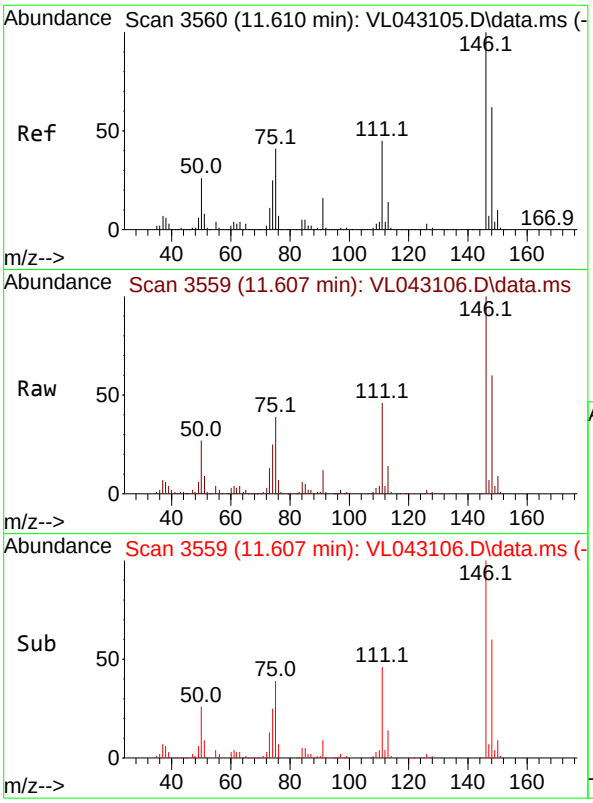


#74
1,2,4-Trimethylbenzene
Concen: 2.169 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 104352

Ion	Ratio	Lower	Upper
105	100		
120	51.4	42.8	64.2
91	87.0	68.3	102.5
77	27.5	23.4	35.0



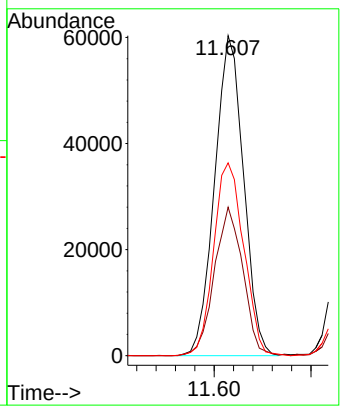


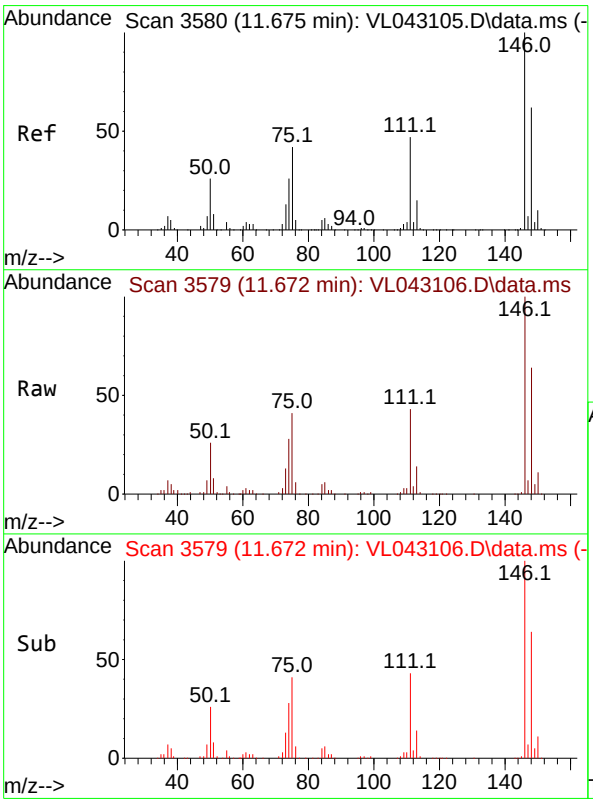
#75
1,3-Dichlorobenzene
Concen: 2.247 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 62709

Ion	Ratio	Lower	Upper
146	100		
111	45.8	23.3	69.9
148	62.6	31.6	95.0

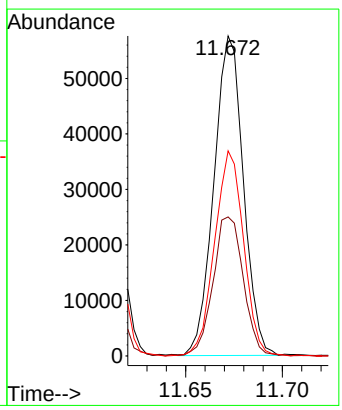


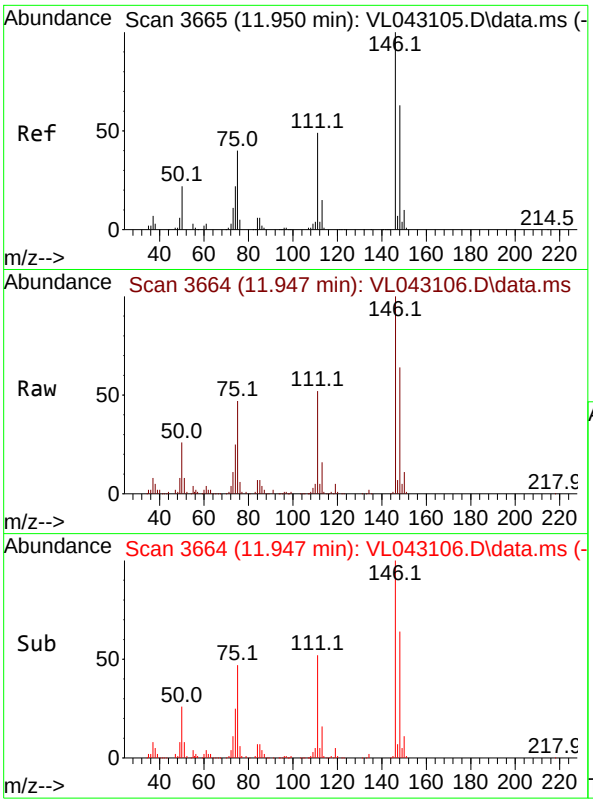


#76
1,4-Dichlorobenzene
Concen: 2.164 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:146 Resp: 60877

Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.4	67.0
148	63.3	31.6	94.7



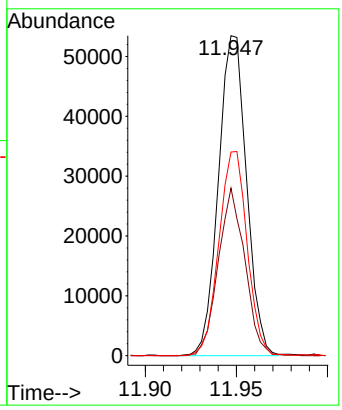


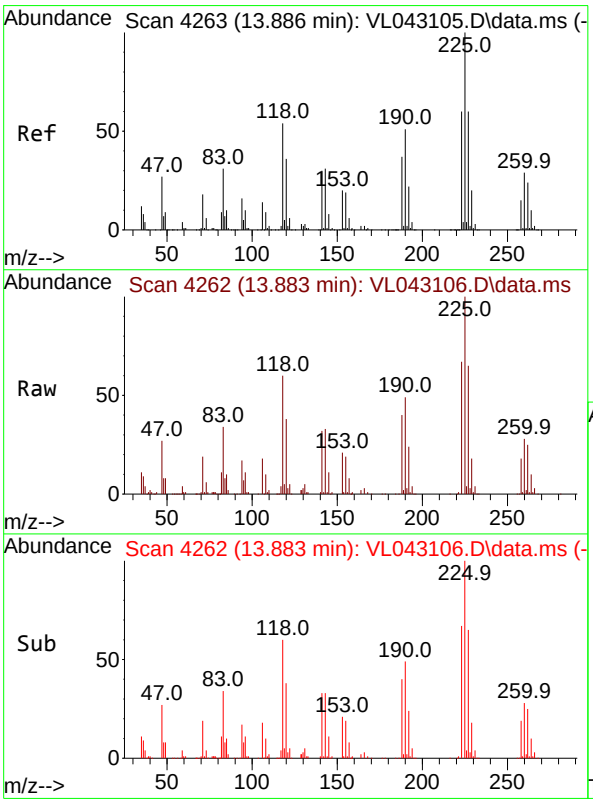
#77
1,2-Dichlorobenzene
Concen: 2.123 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 57304

Ion	Ratio	Lower	Upper
146	100		
111	49.7	24.0	72.0
148	64.3	31.1	93.3

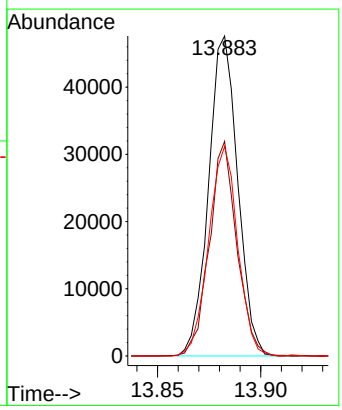


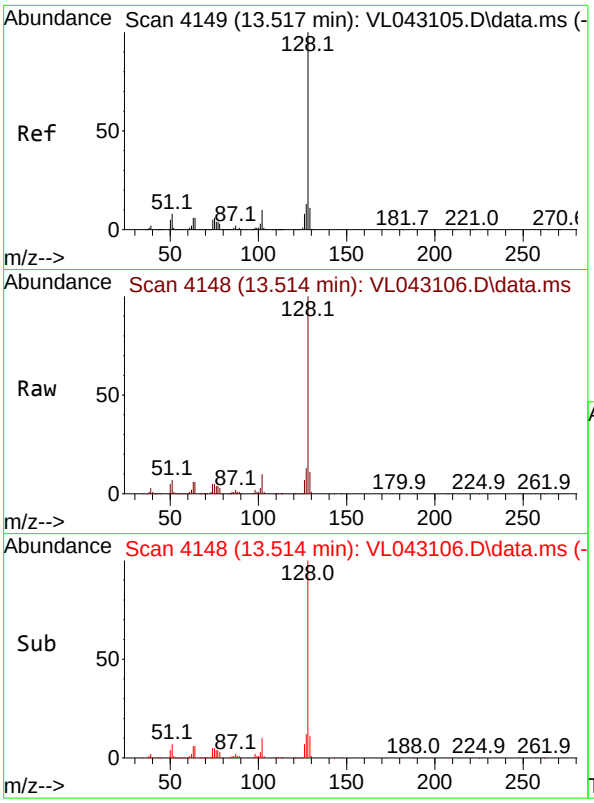


#78
Hexachloro-1,3-Butadiene
Concen: 2.239 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:225 Resp: 46796

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.2	75.4
227	65.2	49.6	74.4



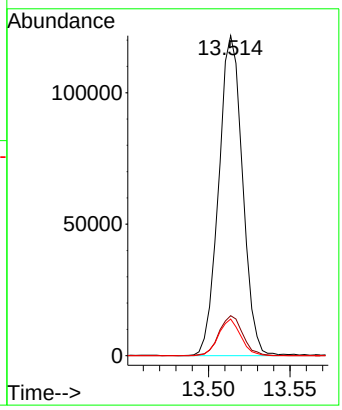


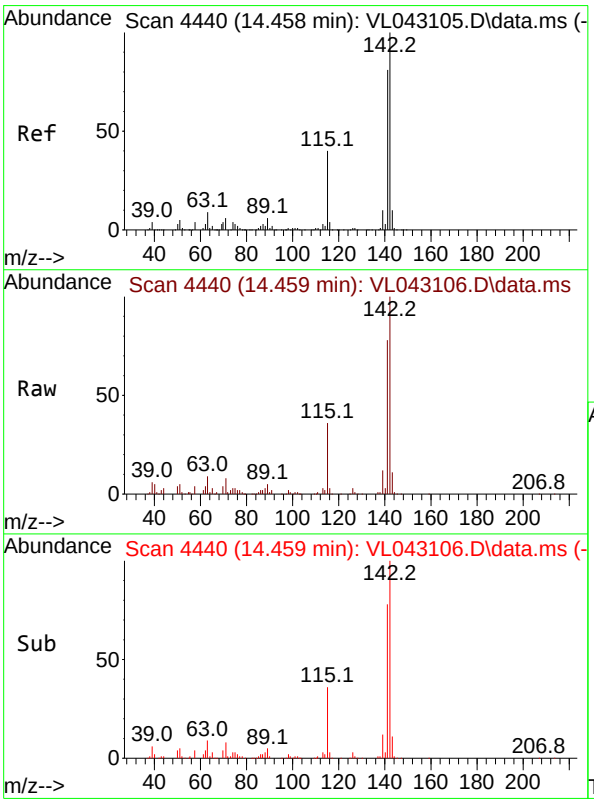
#79
Naphthalene
Concen: 2.488 ppbv
RT: 13.514 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:128 Resp: 123642

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.5	15.7
129	11.4	9.1	13.7

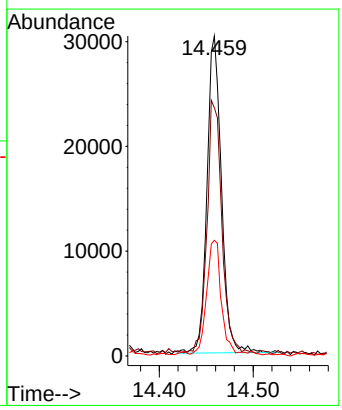


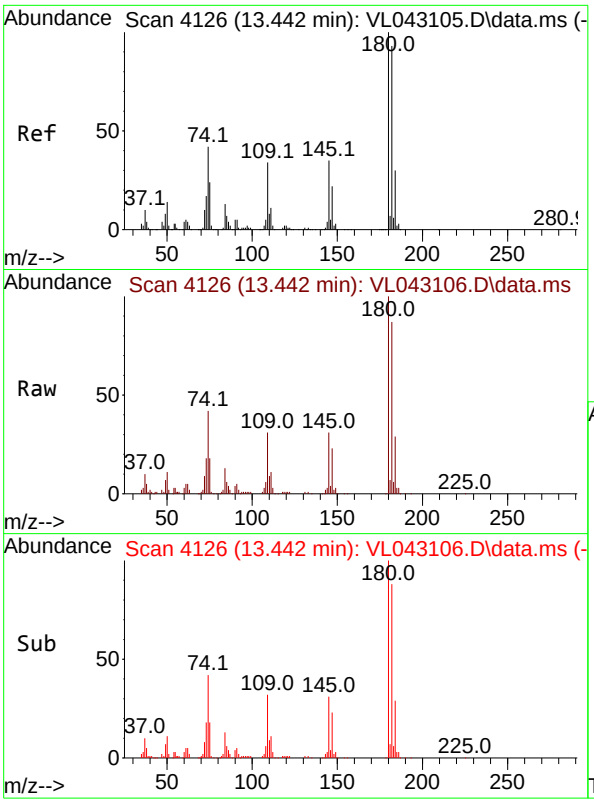


#80
Naphthalene,2-methyl-
Concen: 2.462 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Tgt Ion:142 Resp: 32308

Ion	Ratio	Lower	Upper
142	100		
141	82.6	64.6	97.0
115	39.7	30.2	45.4



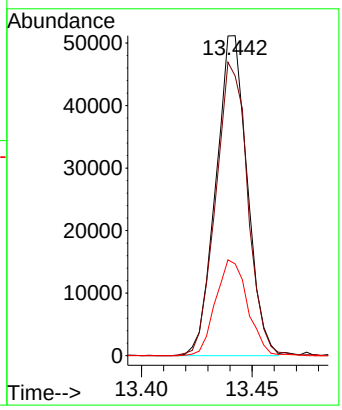


#81
1,2,4-Trichlorobenzene
Concen: 2.414 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043106.D
Acq: 14 Oct 2025 11:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:180 Resp: 50394

Ion	Ratio	Lower	Upper
180	100		
182	93.9	75.5	113.3
184	30.6	23.9	35.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043107.D
Acq On : 14 Oct 2025 12:01
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Oct 15 01:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	102307	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	336268	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	305409	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	235307	9.912	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	15620	1.074	ppbv		99
3) Chlorodifluoromethane	1.476	51	16692	1.061	ppbv	#	91
4) Chloromethane	1.534	50	6353	1.103	ppbv		93
5) Vinyl Chloride	1.580	62	5694	1.008	ppbv		96
6) Bromomethane	1.667	94	3462	1.117	ppbv		98
7) Chloroethane	1.706	64	2615	1.132	ppbv	#	82
8) Dichlorotetrafluoroethane	1.554	85	12940	1.101	ppbv		98
9) Propene	1.483	41	7291	1.045	ppbv		100
10) Heptane	4.978	43	22011	1.100	ppbv		99
11) Trichlorofluoromethane	1.877	101	14927	1.049	ppbv		85
12) 1,1,2-Trichlorotrifluo...	2.140	101	12484	1.090	ppbv		99
13) Ethanol	1.722	45	3143	1.217	ppbv		83
14) Bromoethene	1.780	108	4440	1.043	ppbv	#	90
15) Acetone	1.835	43	15572	1.123	ppbv		90
16) 1,3-Butadiene	1.609	39	7157	1.089	ppbv		97
17) tert-Butyl alcohol	2.043	59	20941	1.106	ppbv	#	90
18) 1,1-Dichloroethene	2.036	96	5510	1.103	ppbv		88
19) Isopropyl Alcohol	1.887	45	9796	1.141	ppbv	#	85
20) Methylene Chloride	2.062	84	6261	1.149	ppbv		96
21) Allyl Chloride	2.094	41	10737	1.055	ppbv	#	82
22) trans-1,2-Dichloroethene	2.340	96	7119	1.193	ppbv		92
23) Vinyl Acetate	2.463	43	19477	0.964	ppbv		99
24) 1,1-Dichloroethane	2.405	63	12656	1.097	ppbv	#	94
25) Ethyl Acetate	2.832	43	37093	1.085	ppbv		98
26) Hexane	2.826	57	17152	1.089	ppbv		98
27) Carbon Disulfide	2.149	76	15760	1.092	ppbv	#	60
28) Methyl tert-Butyl Ether	2.441	73	7847	1.095	ppbv	#	87
29) Chloroform	2.845	83	24527	1.074	ppbv		90
30) Cyclohexane	3.855	84	14819	1.078	ppbv		97
31) cis-1,2-Dichloroethene	2.719	61	16311	1.084	ppbv		93
32) 1,1,1-Trichloroethane	3.366	97	24948	1.049	ppbv		98
34) 2-Butanone	2.557	43	23811	1.047	ppbv		100
35) Carbon Tetrachloride	3.761	117	24969	1.033	ppbv		93
36) Benzene	3.651	78	32940	1.040	ppbv		99
37) 1,2-Dichloroethane	3.217	62	19213	1.053	ppbv		100
38) Trichloroethene	4.544	130	13512	1.023	ppbv		96
39) 1,2-Dichloropropane	4.311	63	12435	1.073	ppbv		92
40) 1,4-Dioxane	4.593	88	3225	0.622	ppbv	#	21
41) Tetrahydrofuran	3.056	42	13251	1.044	ppbv		99
42) Bromodichloromethane	4.486	83	26069	1.032	ppbv	#	94
43) Methyl Methacrylate	4.878	69	17195	1.064	ppbv		97
44) 2,2,4-Trimethylpentane	4.638	57	57382	1.084	ppbv		96
45) t-1,3-Dichloropropene	6.415	75	7304	0.452	ppbv		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043107.D
Acq On : 14 Oct 2025 12:01
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Oct 15 01:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

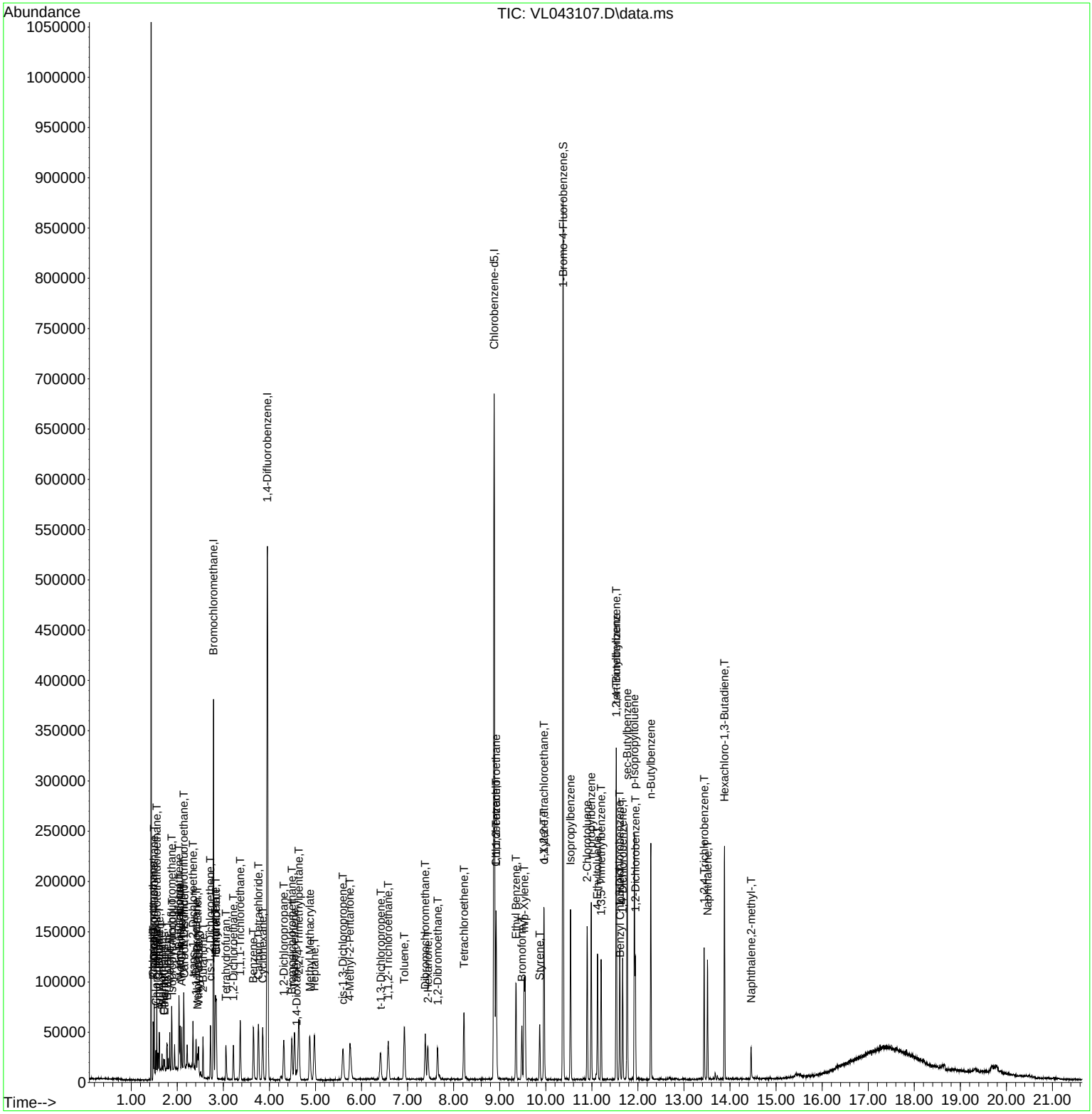
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	19830	1.029	ppbv		94
47) 1,1,2-Trichloroethane	6.577	97	12876	1.030	ppbv		98
48) Dibromochloromethane	7.383	129	21874	1.046	ppbv		97
49) Bromoform	9.480	173	17320	1.019	ppbv		96
50) 4-Methyl-2-Pentanone	5.745	43	11642	0.371	ppbv	#	38
51) 2-Hexanone	7.441	43	23817	1.018	ppbv	#	95
52) Tetrachloroethene	8.224	164	12319	1.079	ppbv		91
53) Toluene	6.930	91	39079	1.040	ppbv		98
54) 1,2-Dibromoethane	7.652	107	19711	0.999	ppbv		88
56) 1,1,1,2-Tetrachloroethane	8.920	131	20279	1.053	ppbv		96
57) Chlorobenzene	8.920	112	30824	1.079	ppbv		97
58) Ethyl Benzene	9.351	91	55420	1.049	ppbv		96
59) m/p-Xylene	9.532	91	45483	1.087	ppbv	#	29
60) o-Xylene	9.963	91	44925	1.088	ppbv		100
61) Styrene	9.869	104	19809	1.063	ppbv		98
62) Isopropylbenzene	10.535	105	81579	1.093	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.959	83	28230	1.021	ppbv		100
64) n-propylbenzene	10.985	120	21685	1.098	ppbv		98
65) tert-Butylbenzene	11.529	119	72781	1.105	ppbv		99
66) Benzyl Chloride	11.613	91	7918	1.076	ppbv		97
67) sec-Butylbenzene	11.765	105	103152	1.103	ppbv		100
69) p-Isopropyltoluene	11.924	119	88443	1.113	ppbv		99
70) n-Butylbenzene	12.280	91	86120	1.100	ppbv		98
71) 2-Chlorotoluene	10.898	91	60994	1.072	ppbv		99
72) 4-Ethyltoluene	11.121	105	53788	1.059	ppbv		98
73) 1,3,5-Trimethylbenzene	11.202	105	44786	1.070	ppbv		98
74) 1,2,4-Trimethylbenzene	11.532	105	52118	1.112	ppbv		95
75) 1,3-Dichlorobenzene	11.604	146	29186	1.074	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	29225	1.066	ppbv		98
77) 1,2-Dichlorobenzene	11.947	146	29146	1.109	ppbv		98
78) Hexachloro-1,3-Butadiene	13.879	225	23330	1.146	ppbv		99
79) Naphthalene	13.510	128	53930	1.114	ppbv		98
80) Naphthalene,2-methyl-	14.458	142	10851	0.849	ppbv		94
81) 1,2,4-Trichlorobenzene	13.439	180	22161	1.090	ppbv		98

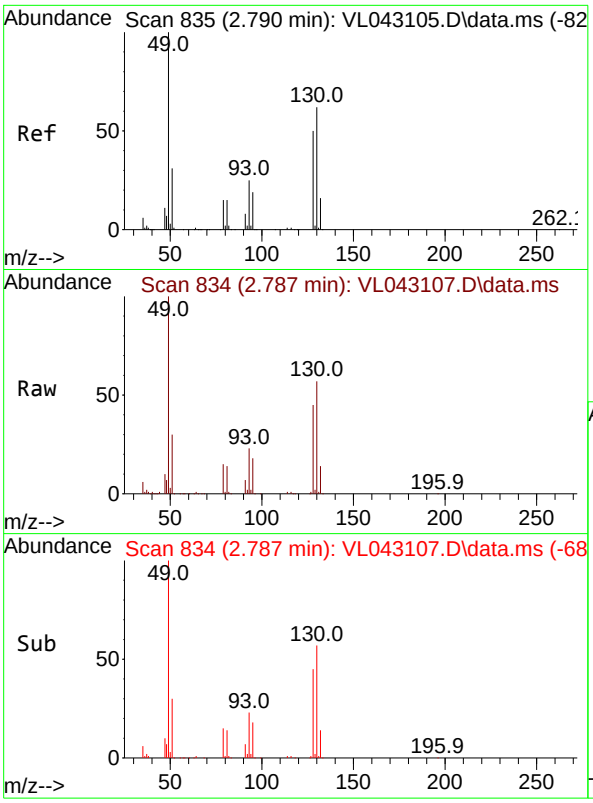
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043107.D
Acq On : 14 Oct 2025 12:01
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Oct 15 01:52:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration



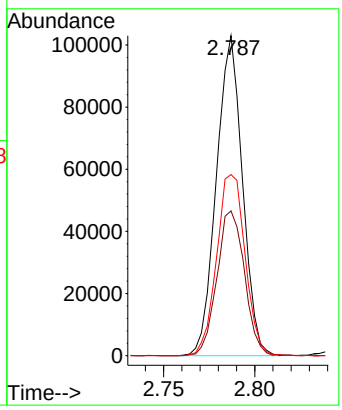


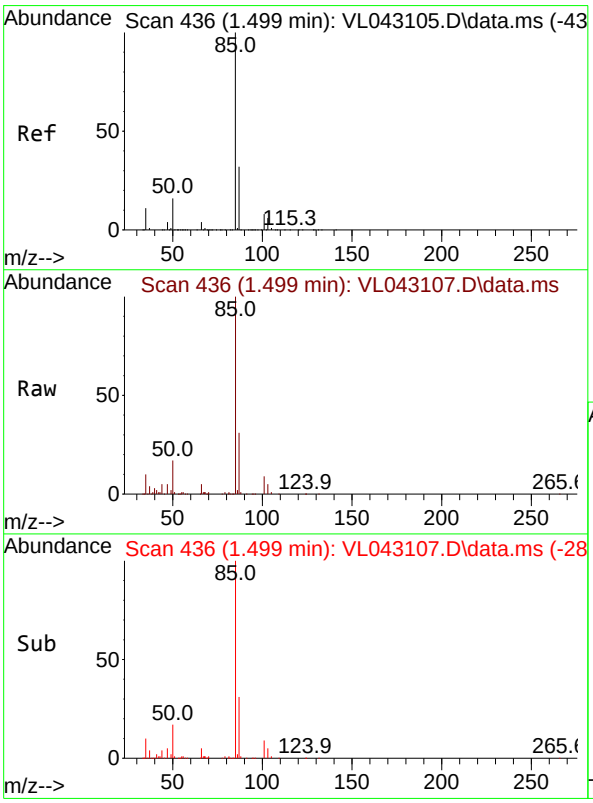
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 49 Resp: 102307

Ion	Ratio	Lower	Upper
49	100		
128	48.0	24.4	73.4
130	62.0	31.0	93.0

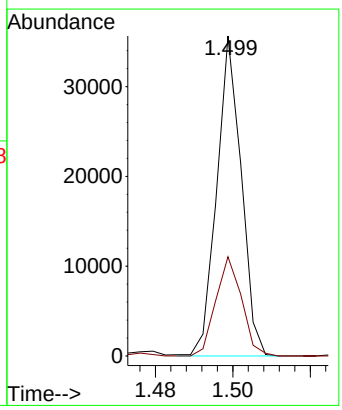


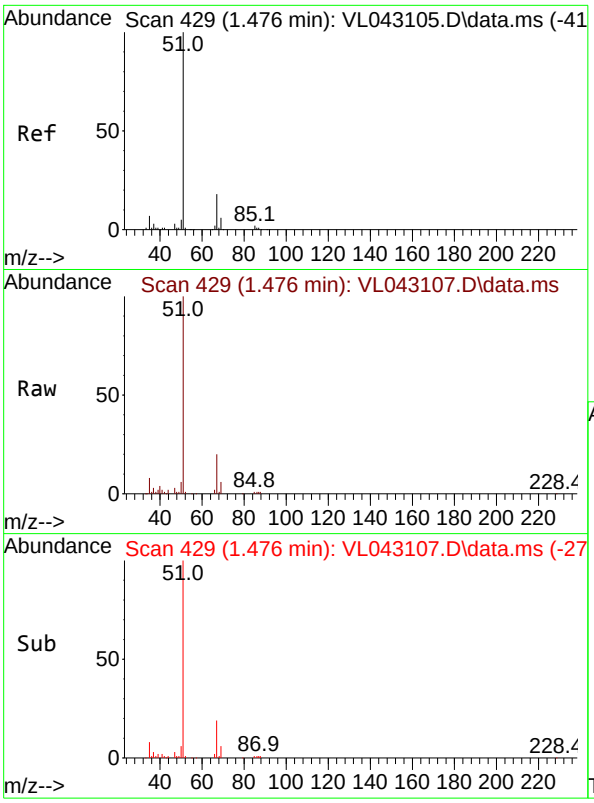


#2
Dichlorodifluoromethane
Concen: 1.074 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 15620

Ion	Ratio	Lower	Upper
85	100		
87	31.0	25.3	37.9



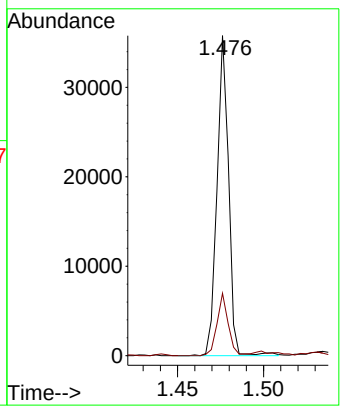


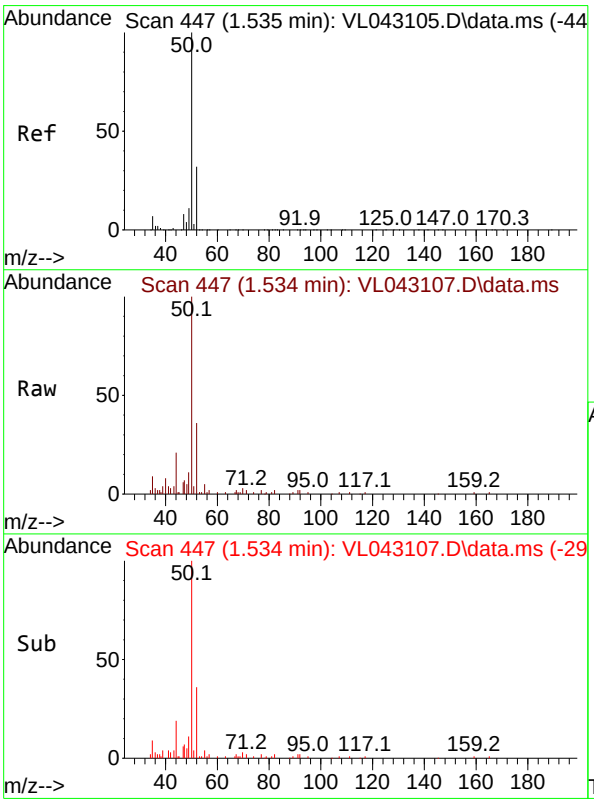
#3
Chlorodifluoromethane
Concen: 1.061 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 16692

Ion	Ratio	Lower	Upper
51	100		
67	22.8	15.1	22.7#

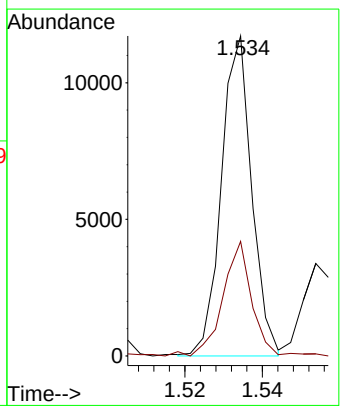


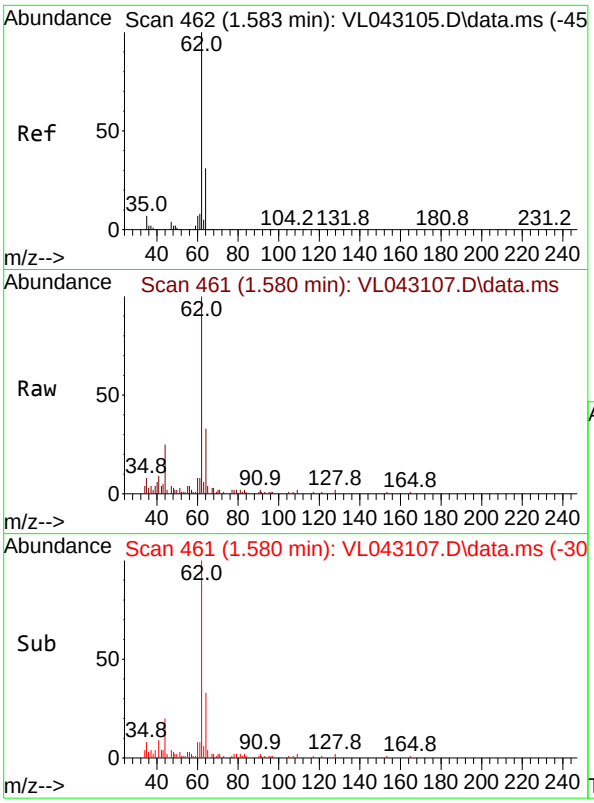


#4
Chloromethane
Concen: 1.103 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 50 Resp: 6353

Ion	Ratio	Lower	Upper
50	100		
52	35.6	25.2	37.8



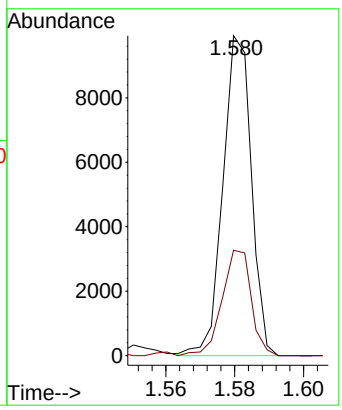


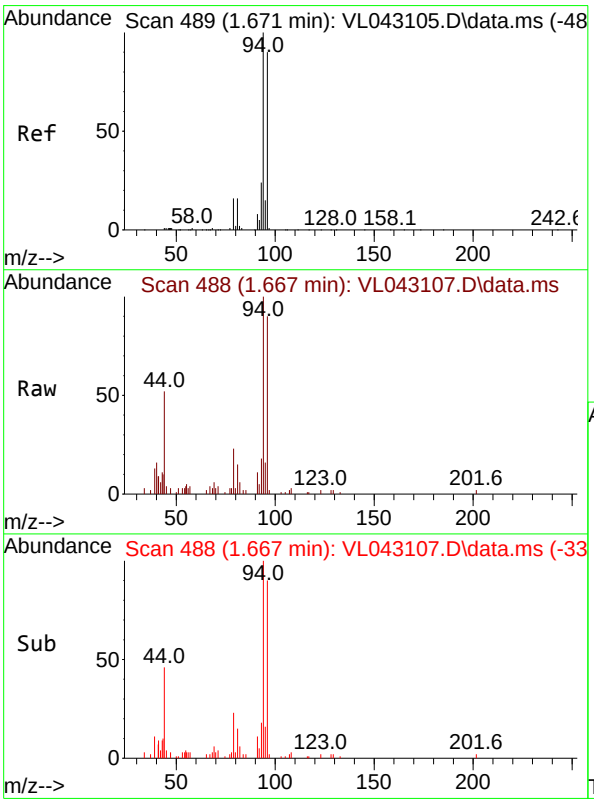
#5
Vinyl Chloride
Concen: 1.008 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 5694

Ion	Ratio	Lower	Upper
62	100		
64	32.9	24.6	36.8

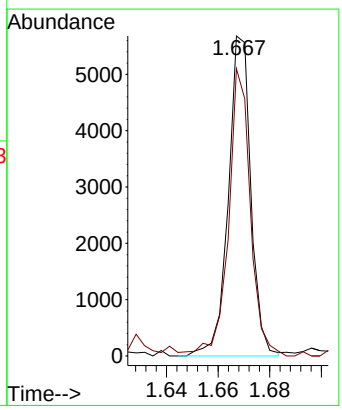


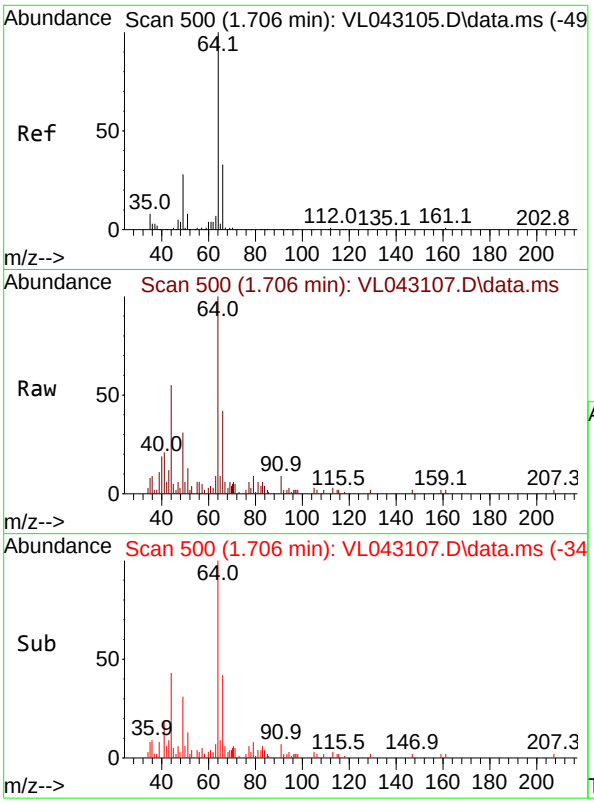


#6
Bromomethane
Concen: 1.117 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 94 Resp: 3462

Ion	Ratio	Lower	Upper
94	100		
96	88.6	72.2	108.4



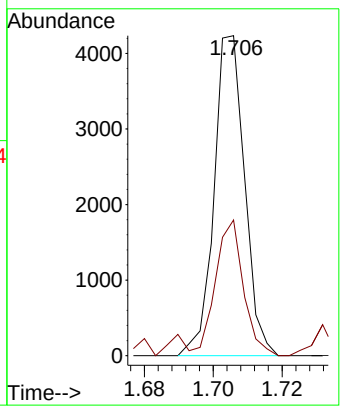


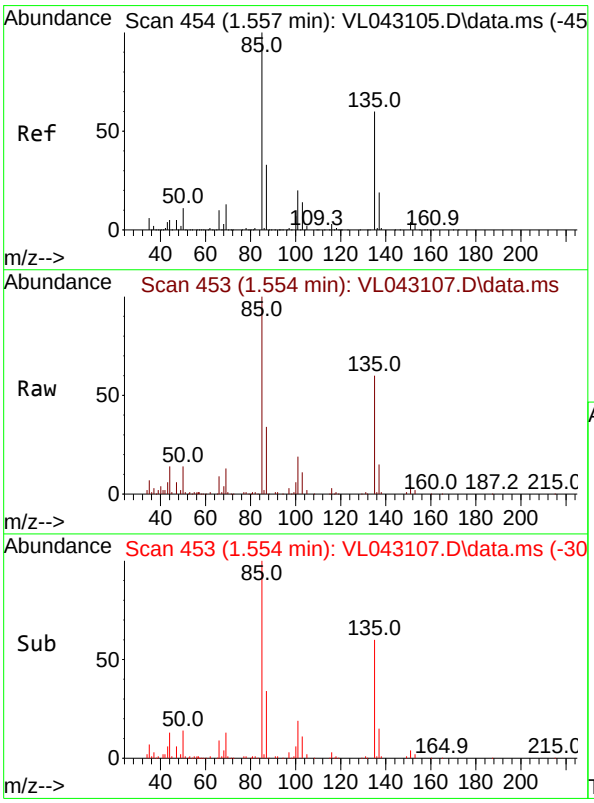
#7
Chloroethane
Concen: 1.132 ppbv
RT: 1.706 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 2615

Ion	Ratio	Lower	Upper
64	100		
66	42.4	26.0	39.0#

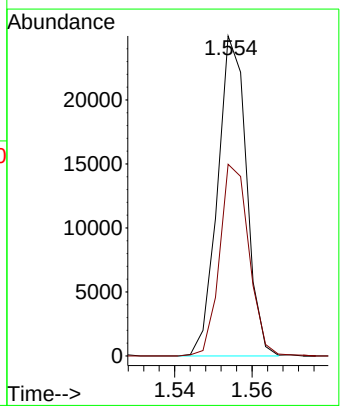


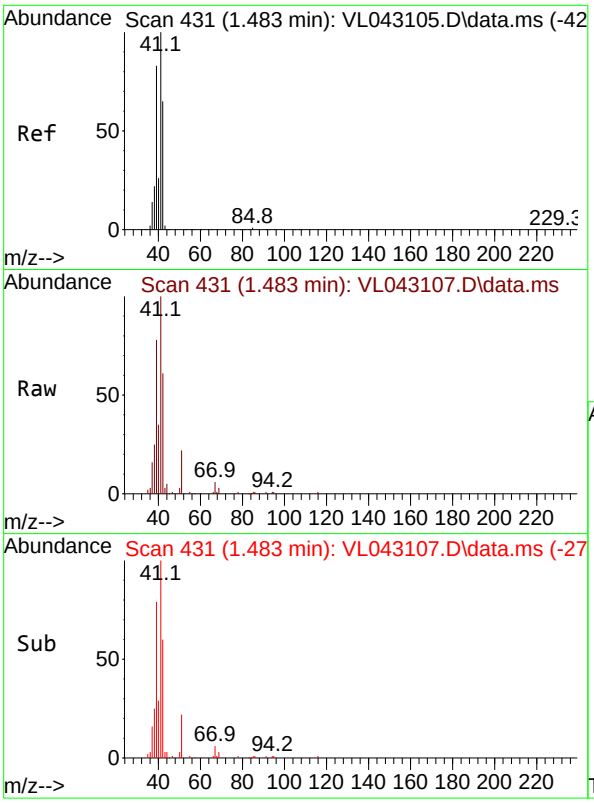


#8
Dichlorotetrafluoroethane
Concen: 1.101 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 12940

Ion	Ratio	Lower	Upper
85	100		
135	61.5	48.2	72.4



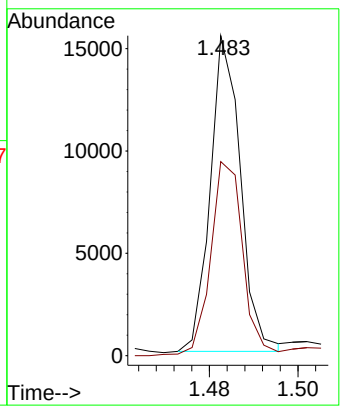


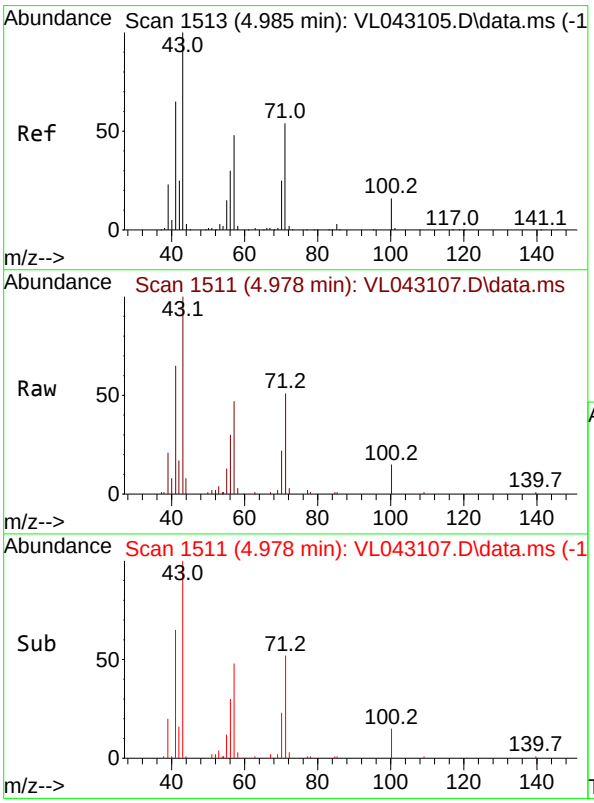
#9
Propene
Concen: 1.045 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 7291

Ion	Ratio	Lower	Upper
41	100		
42	68.5	55.1	82.7

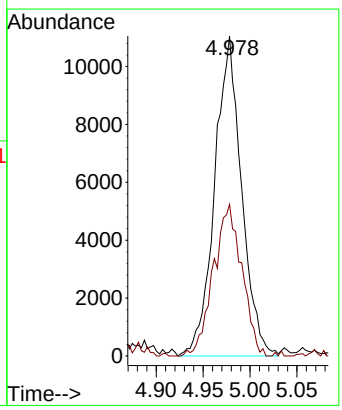


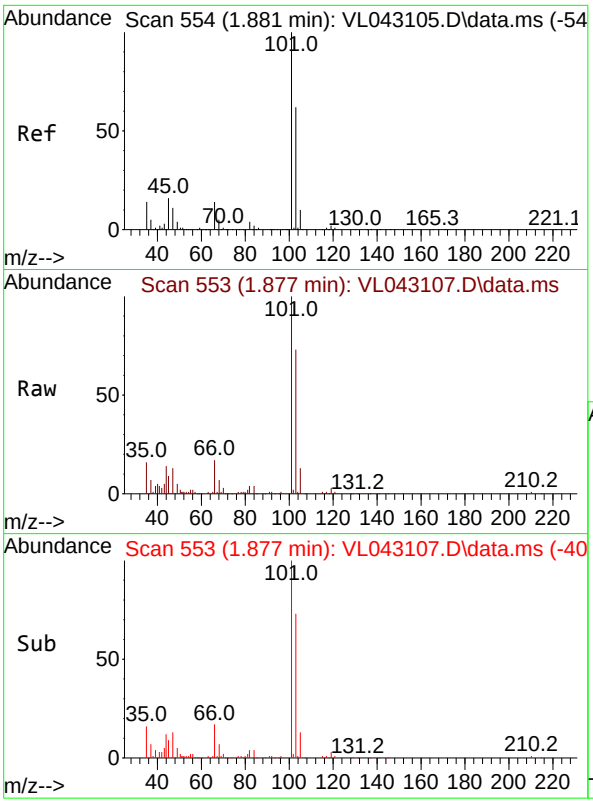


#10
Heptane
Concen: 1.100 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 22011

Ion	Ratio	Lower	Upper
43	100		
57	50.4	40.8	61.2



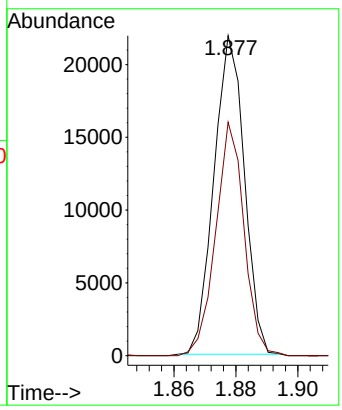


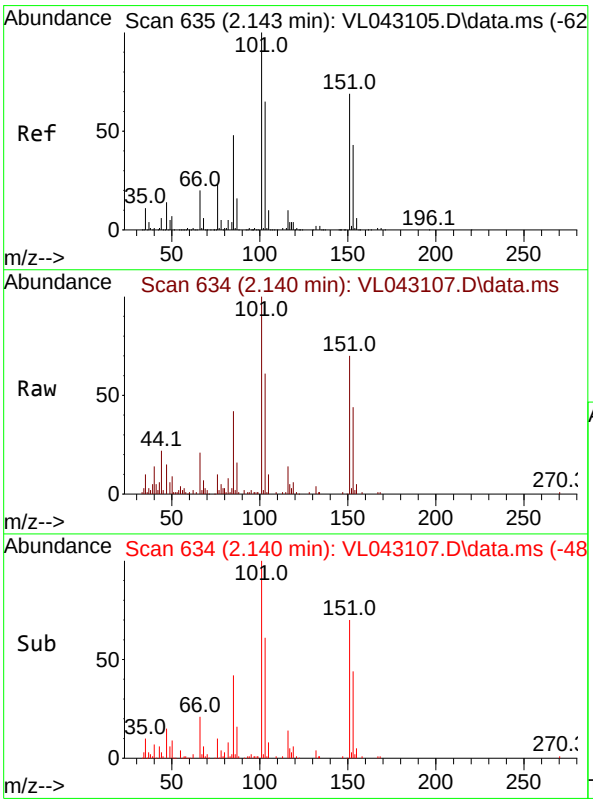
#11
Trichlorofluoromethane
Concen: 1.049 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 14927

Ion	Ratio	Lower	Upper
101	100		
103	73.3	49.3	73.9

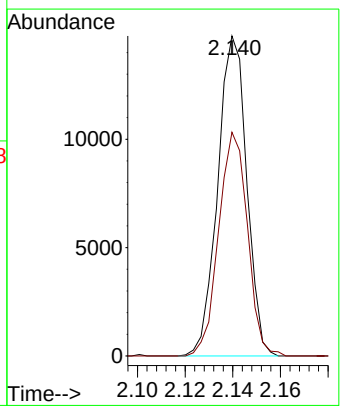


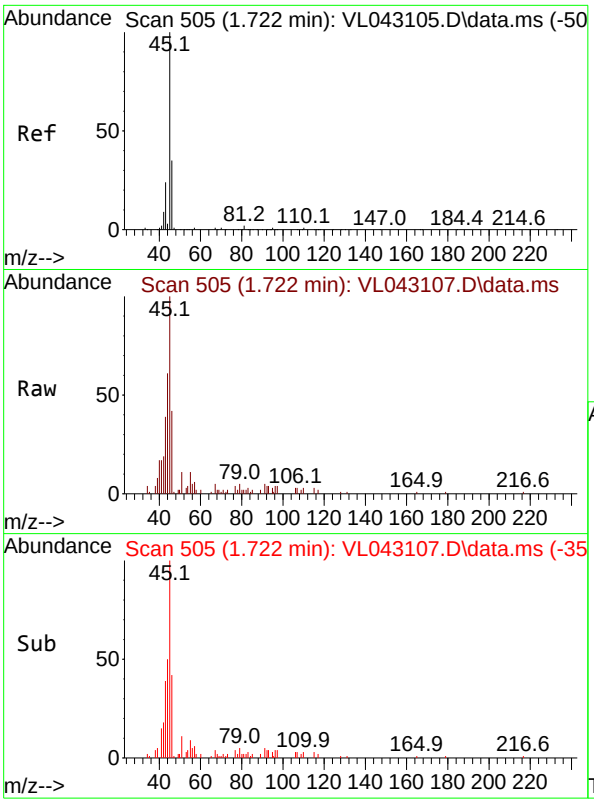


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.090 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:101 Resp: 12484

Ion	Ratio	Lower	Upper
101	100		
151	69.5	54.7	82.1



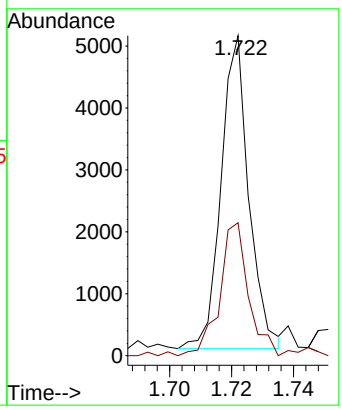


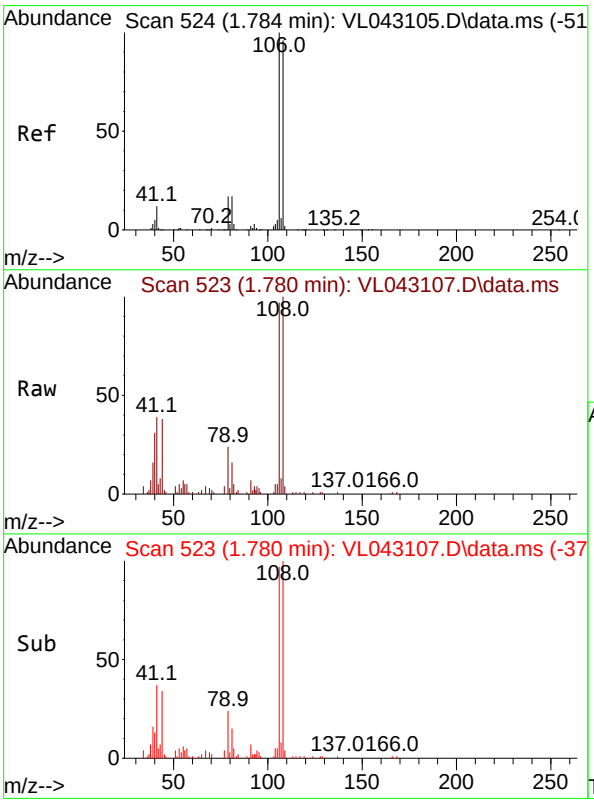
#13
Ethanol
Concen: 1.217 ppbv
RT: 1.722 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 3143

Ion	Ratio	Lower	Upper
45	100		
46	46.7	14.7	58.9

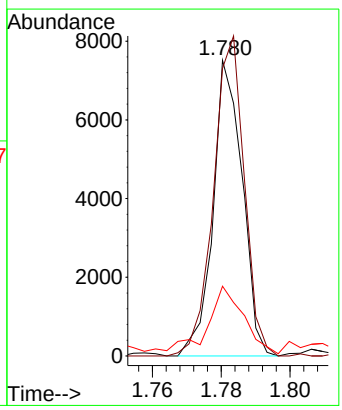


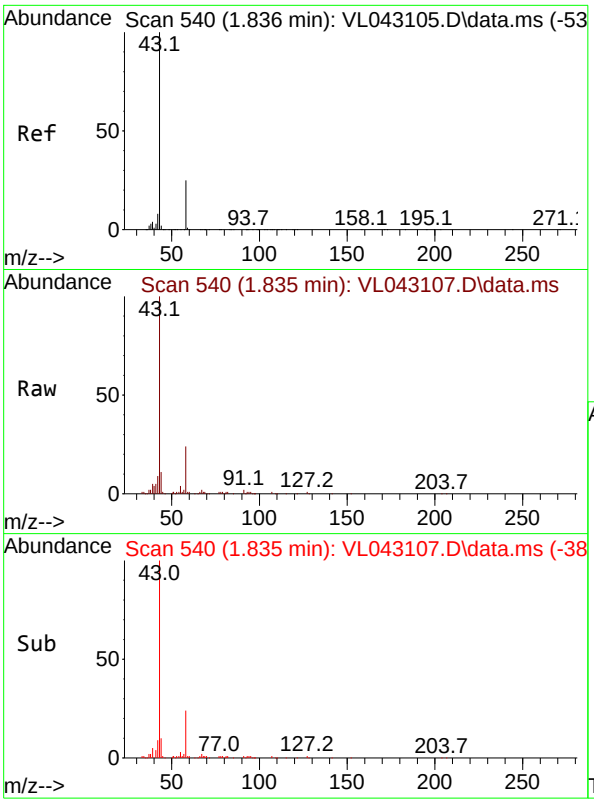


#14
Bromoethene
Concen: 1.043 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:108 Resp: 4440

Ion	Ratio	Lower	Upper
108	100		
106	113.7	84.4	126.6
79	28.9	15.3	22.9#



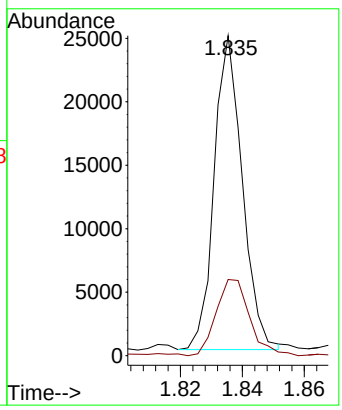


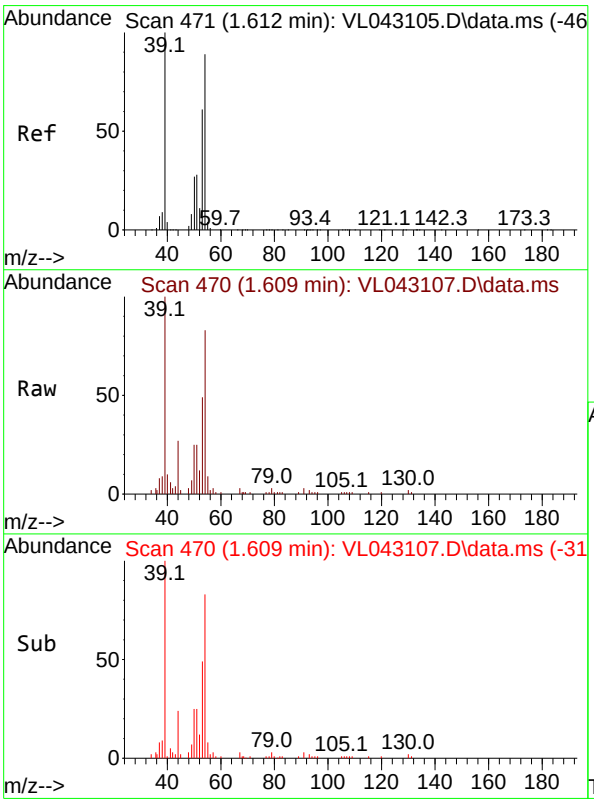
#15
Acetone
Concen: 1.123 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 15572

Ion	Ratio	Lower	Upper
43	100		
58	31.0	20.8	31.2

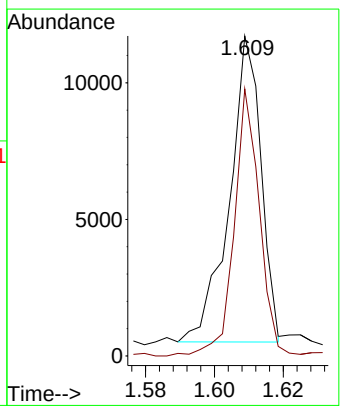


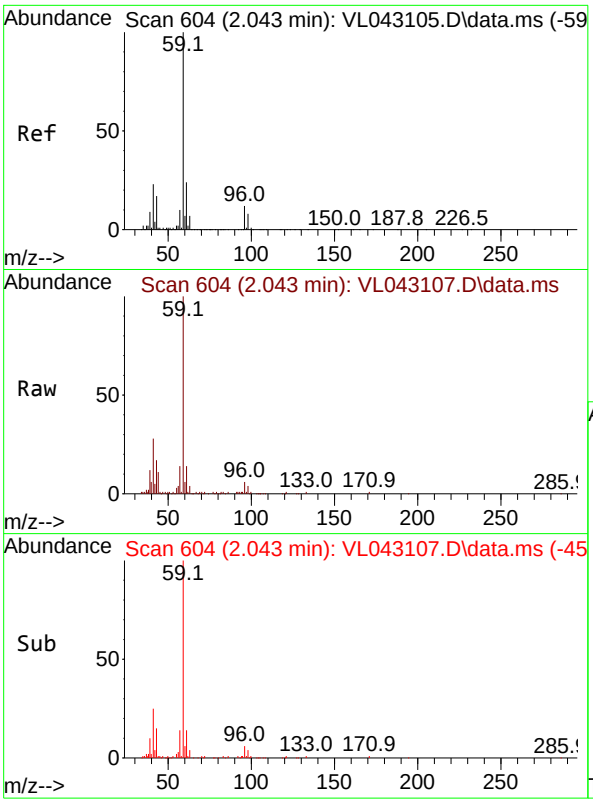


#16
1,3-Butadiene
Concen: 1.089 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 39 Resp: 7157

Ion	Ratio	Lower	Upper
39	100		
54	70.8	59.0	88.4



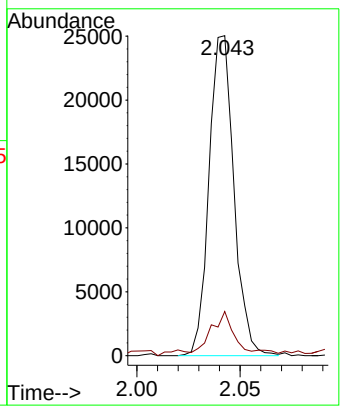


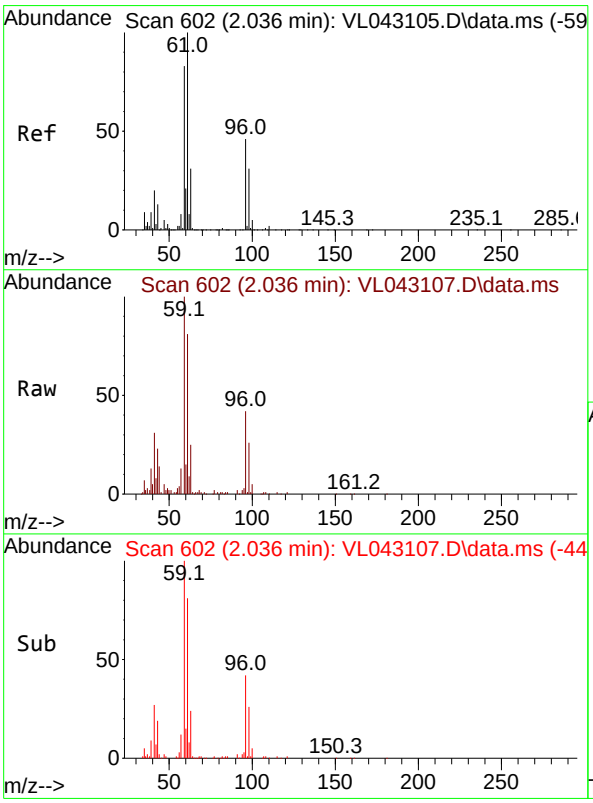
#17
tert-Butyl alcohol
Concen: 1.106 ppbv
RT: 2.043 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 20941

Ion	Ratio	Lower	Upper
59	100		
57	14.0	8.2	12.4#

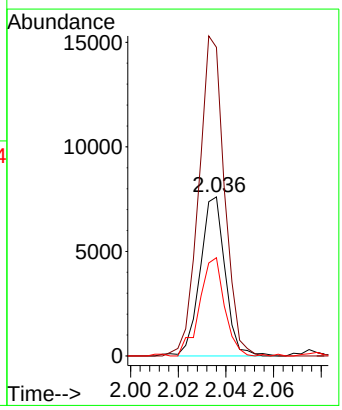


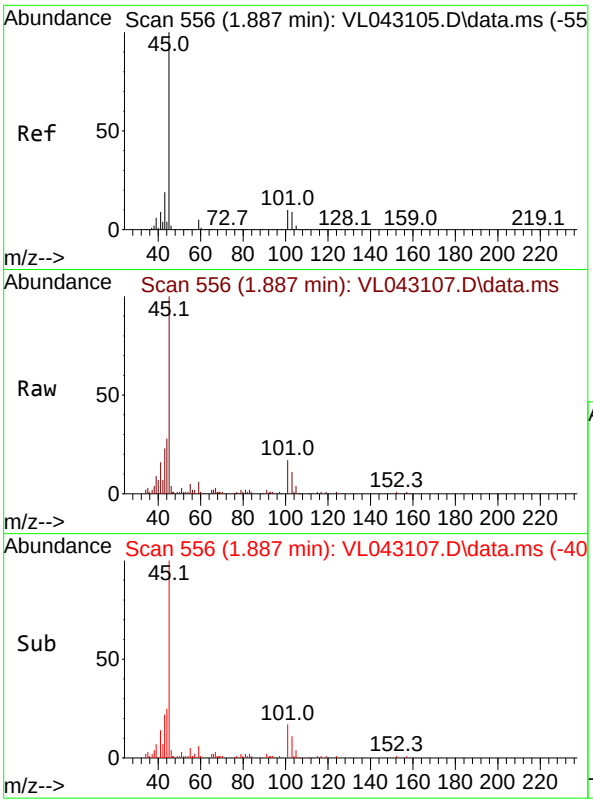


#18
1,1-Dichloroethene
Concen: 1.103 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 96 Resp: 5510

Ion	Ratio	Lower	Upper
96	100		
61	194.0	173.4	260.0
98	61.7	53.2	79.8



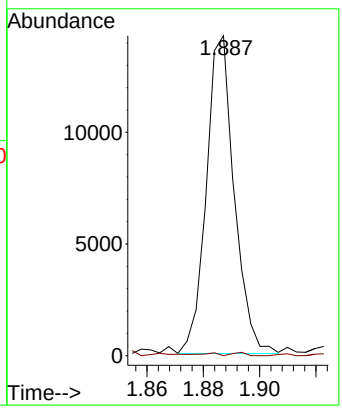


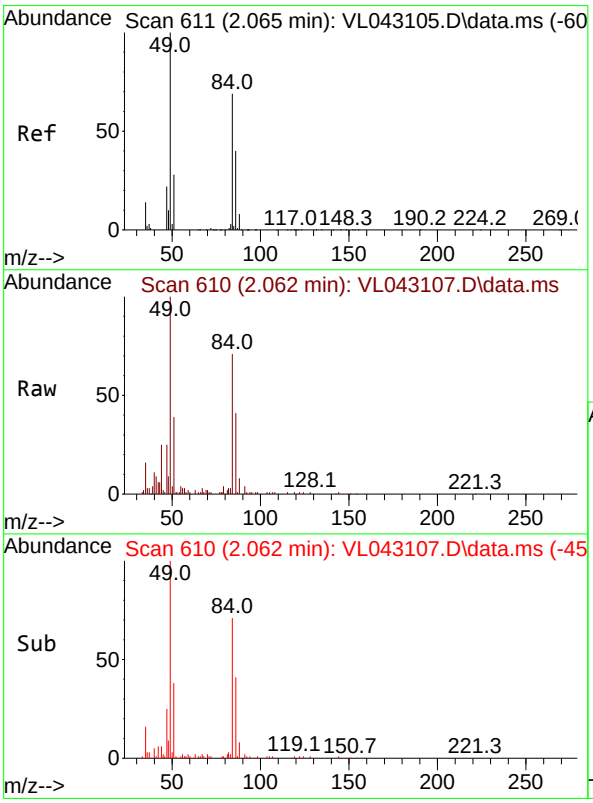
#19
Isopropyl Alcohol
Concen: 1.141 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 9796

Ion	Ratio	Lower	Upper
45	100		
58	48.1	31.3	46.9#

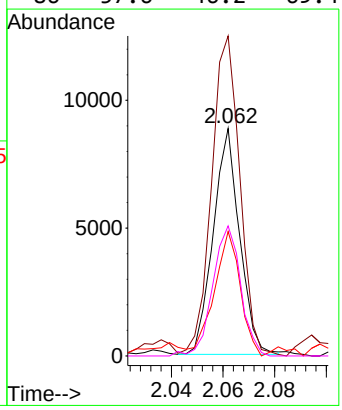


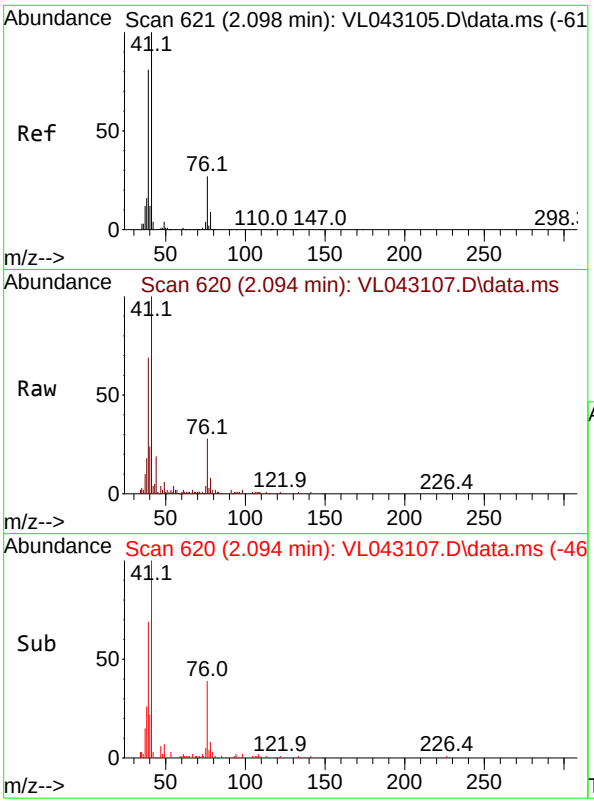


#20
Methylene Chloride
Concen: 1.149 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 84 Resp: 6261

Ion	Ratio	Lower	Upper
84	100		
49	140.9	116.6	175.0
51	51.2	34.8	52.2
86	57.6	46.2	69.4



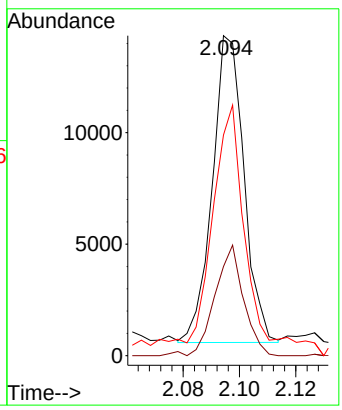


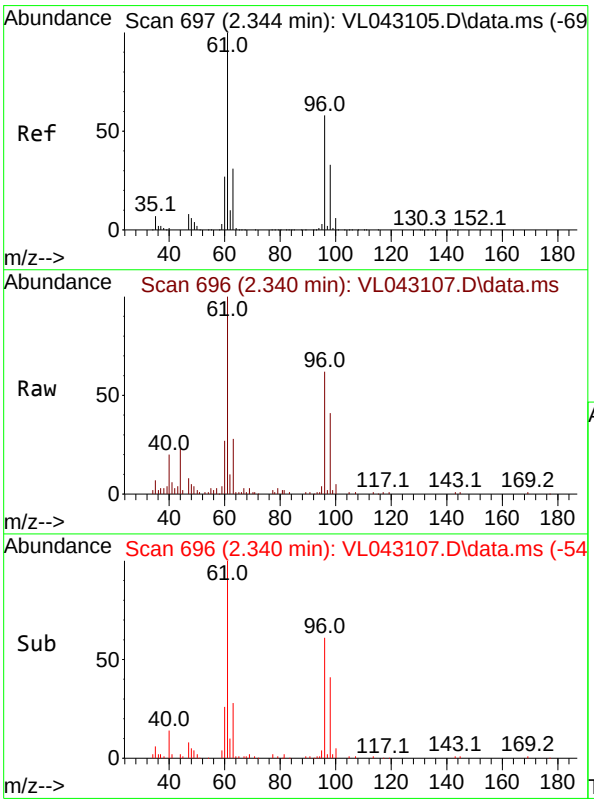
#21
Allyl Chloride
Concen: 1.055 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 10737

Ion	Ratio	Lower	Upper
41	100		
76	32.6	21.5	32.3#
39	94.1	60.8	91.2#

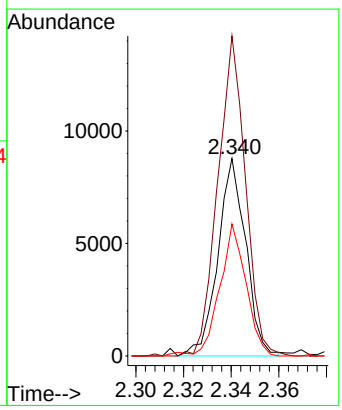


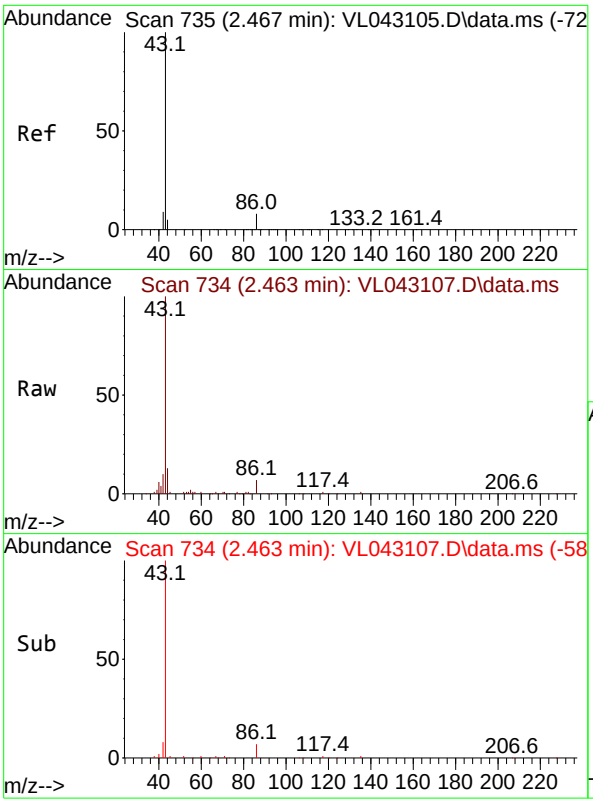


#22
trans-1,2-Dichloroethene
Concen: 1.193 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 96 Resp: 7119

Ion	Ratio	Lower	Upper
96	100		
61	162.1	137.0	205.6
98	66.9	45.5	68.3



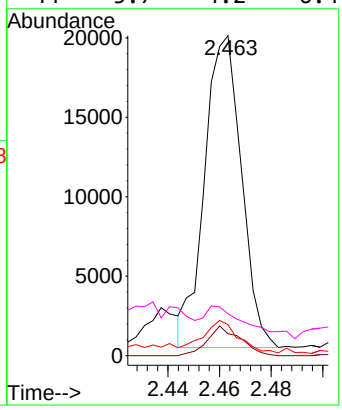


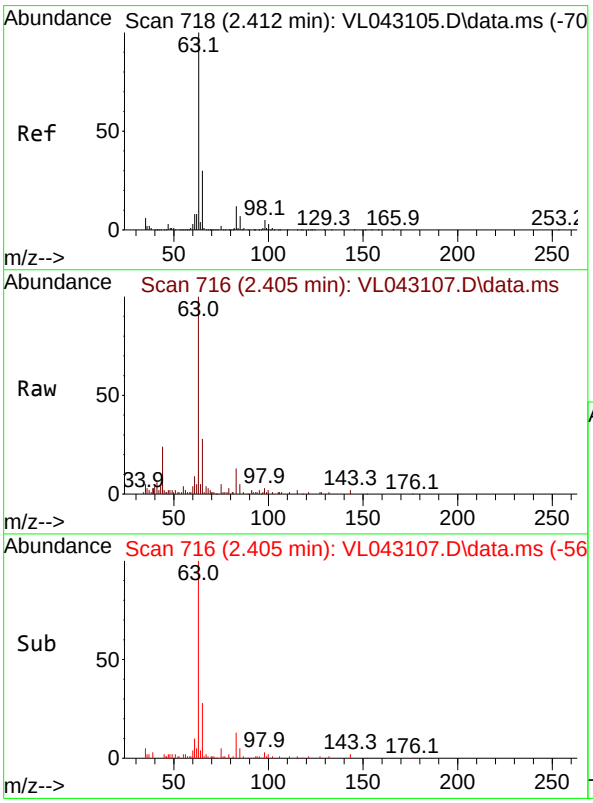
#23
Vinyl Acetate
Concen: 0.964 ppbv
RT: 2.463 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 19477

Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.2	9.2
42	9.1	7.6	11.4
44	5.7	4.2	6.4

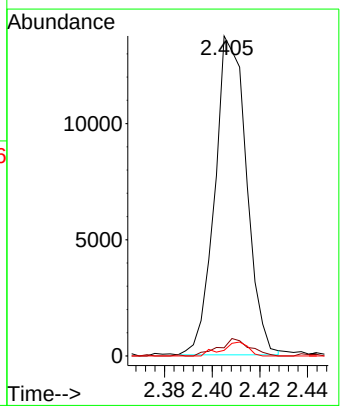


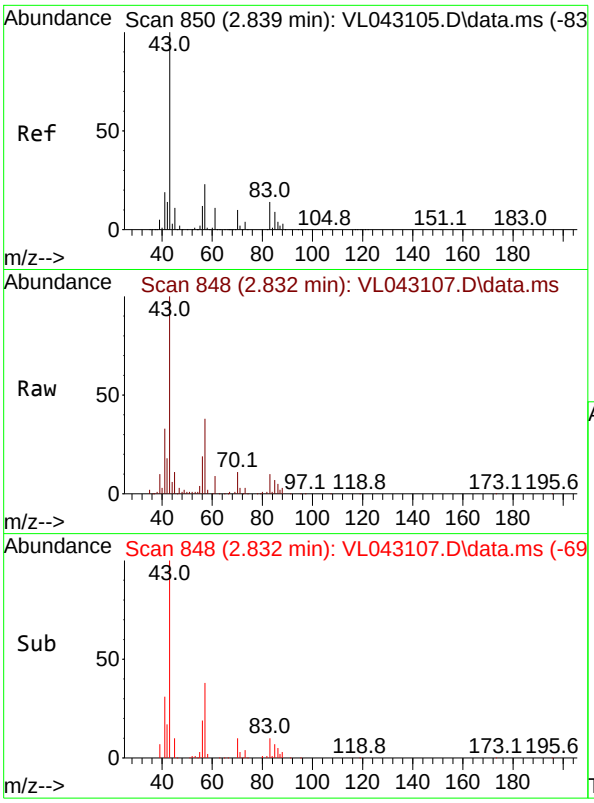


#24
1,1-Dichloroethane
Concen: 1.097 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 63 Resp: 12656

Ion	Ratio	Lower	Upper
63	100		
98	2.6	2.6	7.8#
100	1.7	1.5	4.4



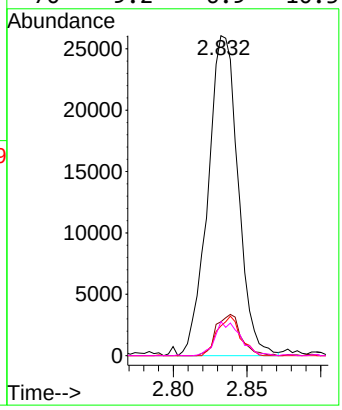


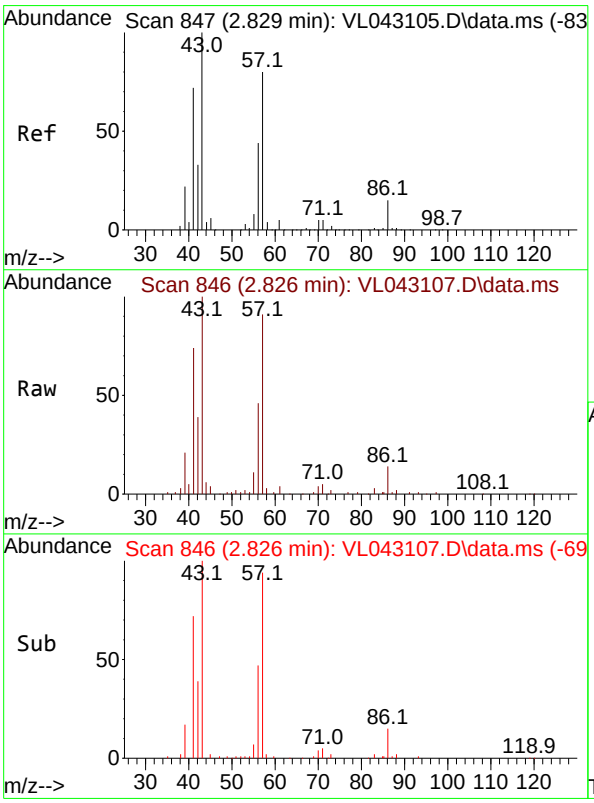
#25
Ethyl Acetate
Concen: 1.085 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 37093

Ion	Ratio	Lower	Upper
43	100		
45	10.8	7.8	11.8
61	9.4	7.0	10.6
70	9.2	6.9	10.3

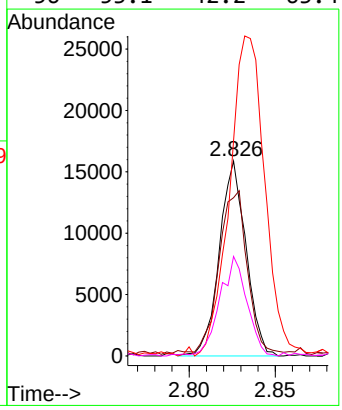


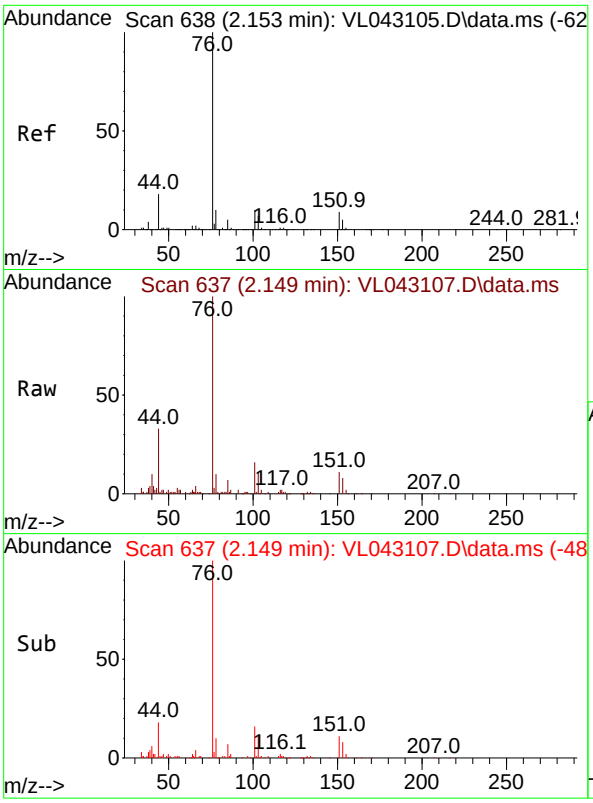


#26
Hexane
Concen: 1.089 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 17152

Ion	Ratio	Lower	Upper
57	100		
41	91.8	71.4	107.0
43	219.3	178.5	267.7
56	53.1	42.2	63.4



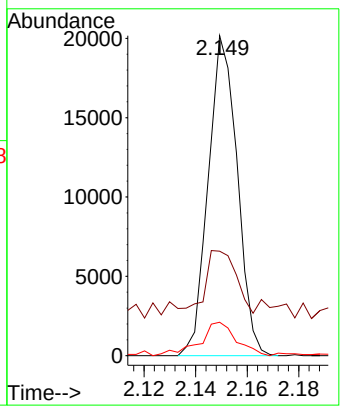


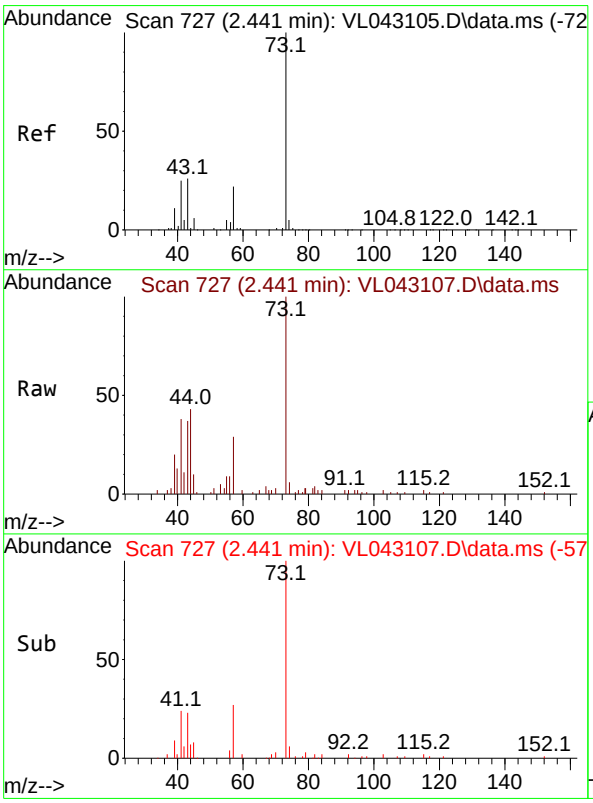
#27
Carbon Disulfide
Concen: 1.092 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 15760

Ion	Ratio	Lower	Upper
76	100		
44	47.9	16.7	25.1#
78	14.2	9.3	13.9#

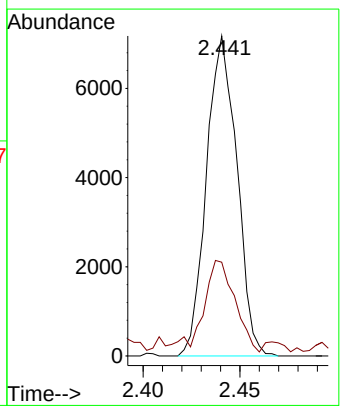


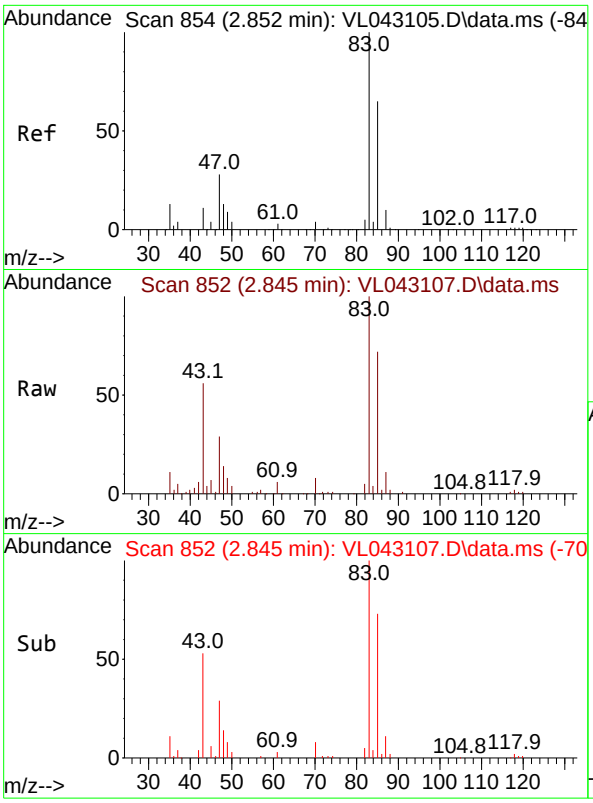


#28
Methyl tert-Butyl Ether
Concen: 1.095 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 73 Resp: 7847

Ion	Ratio	Lower	Upper
73	100		
57	32.3	20.5	30.7#



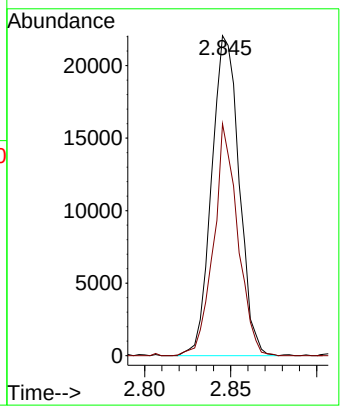


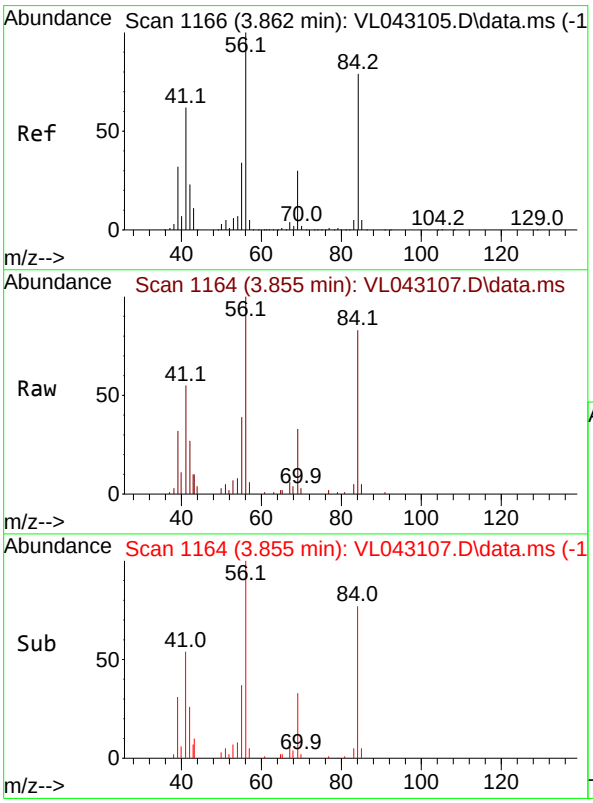
#29
Chloroform
Concen: 1.074 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 24527

Ion	Ratio	Lower	Upper
83	100		
85	72.4	51.8	77.6

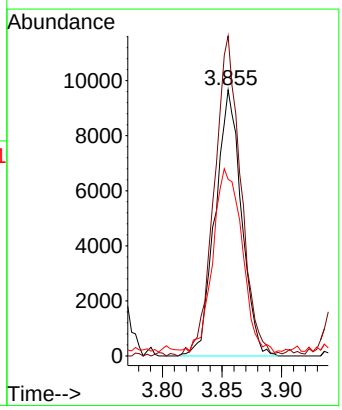


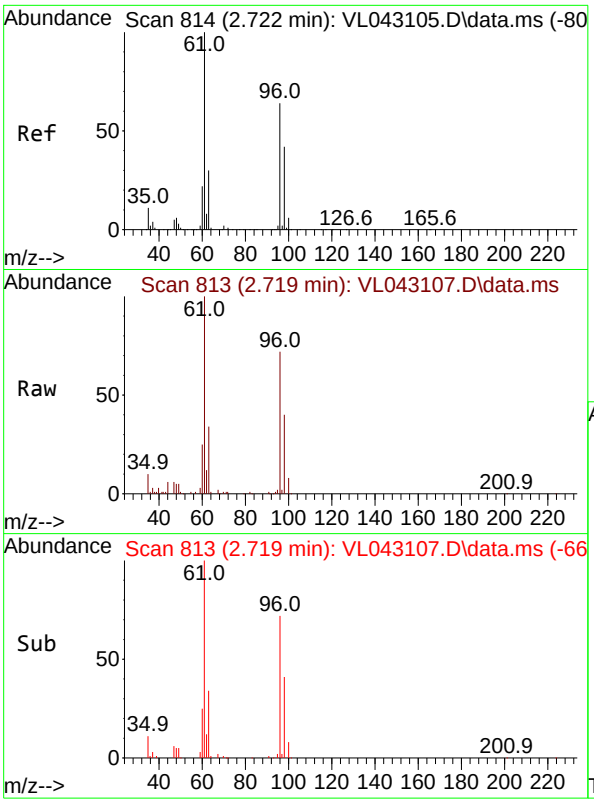


#30
Cyclohexane
Concen: 1.078 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 84 Resp: 14819

Ion	Ratio	Lower	Upper
84	100		
56	122.3	100.9	151.3
41	78.1	63.8	95.6



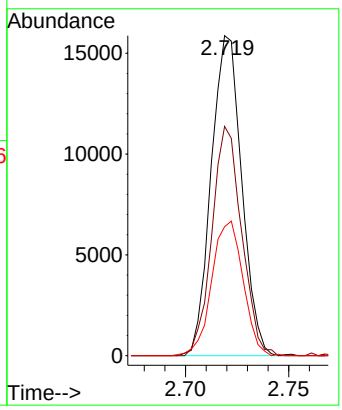


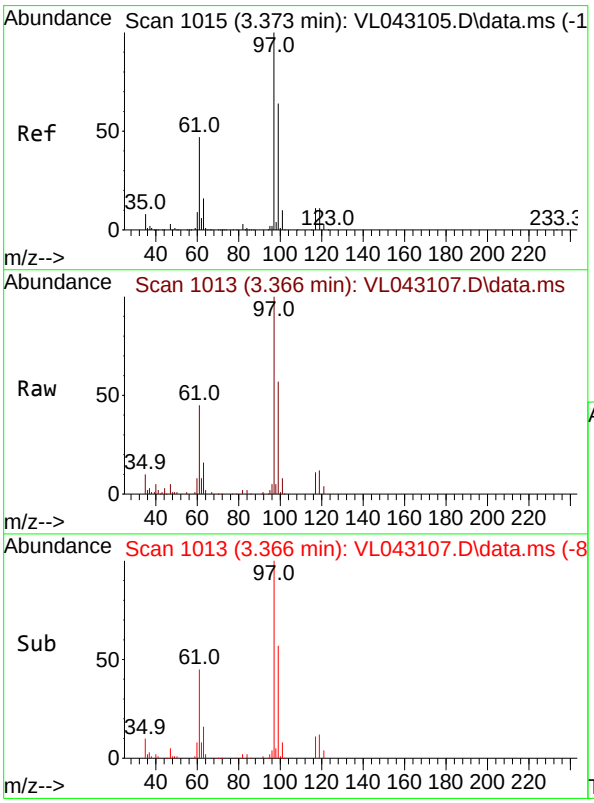
#31
cis-1,2-Dichloroethene
Concen: 1.084 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 61 Resp: 16311

Ion	Ratio	Lower	Upper
61	100		
96	71.6	51.0	76.6
98	39.9	33.5	50.3

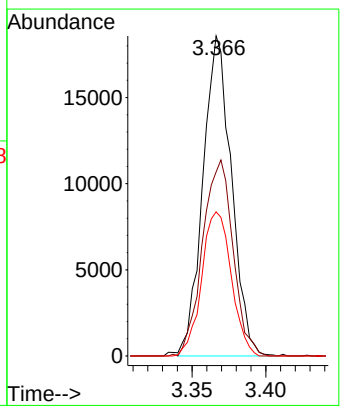


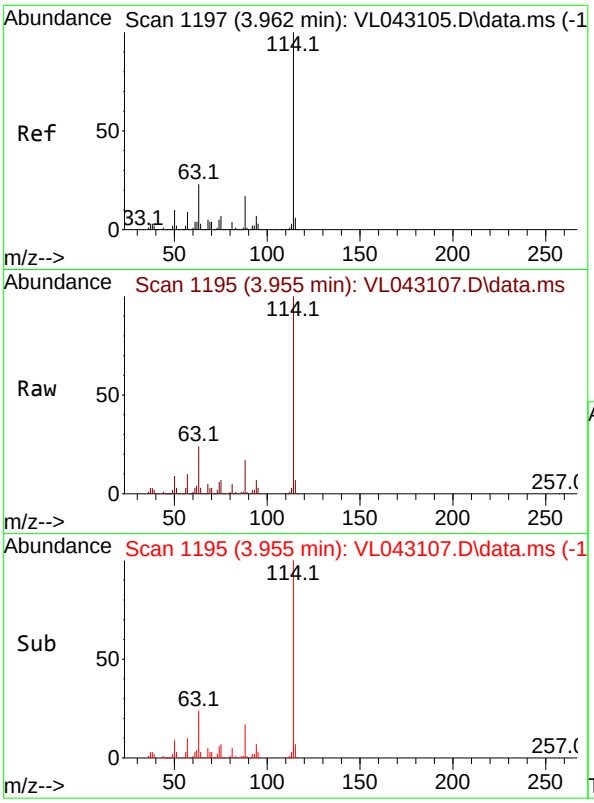


#32
1,1,1-Trichloroethane
Concen: 1.049 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 97 Resp: 24948

Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.3	76.9
61	46.8	38.4	57.6



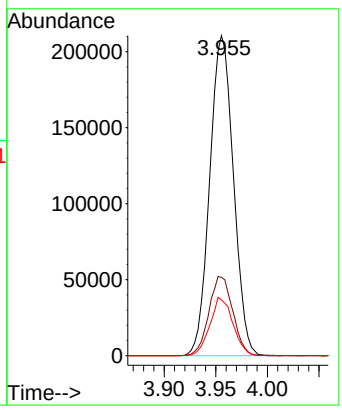


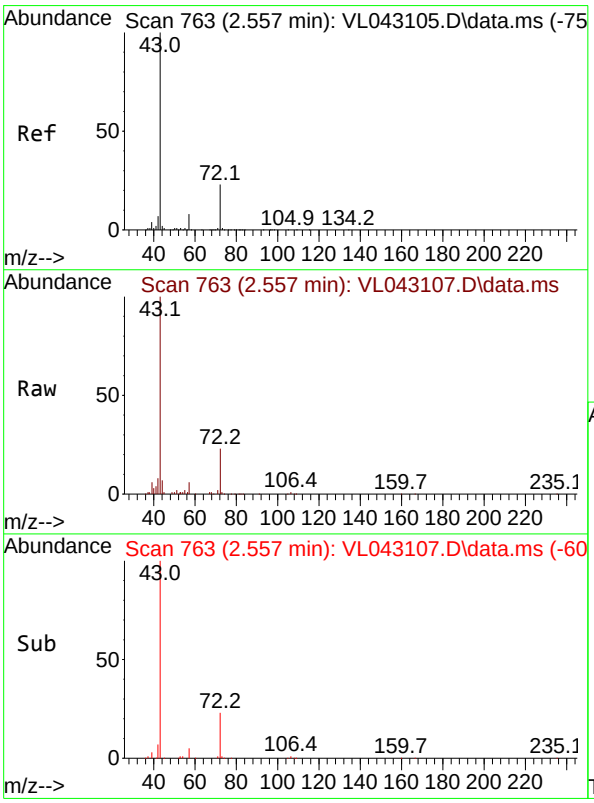
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:114 Resp: 336268

Ion	Ratio	Lower	Upper
114	100		
63	24.8	19.3	28.9
88	17.6	13.9	20.9

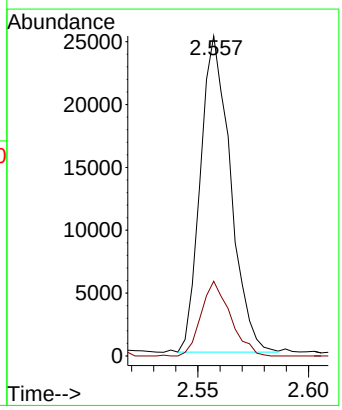


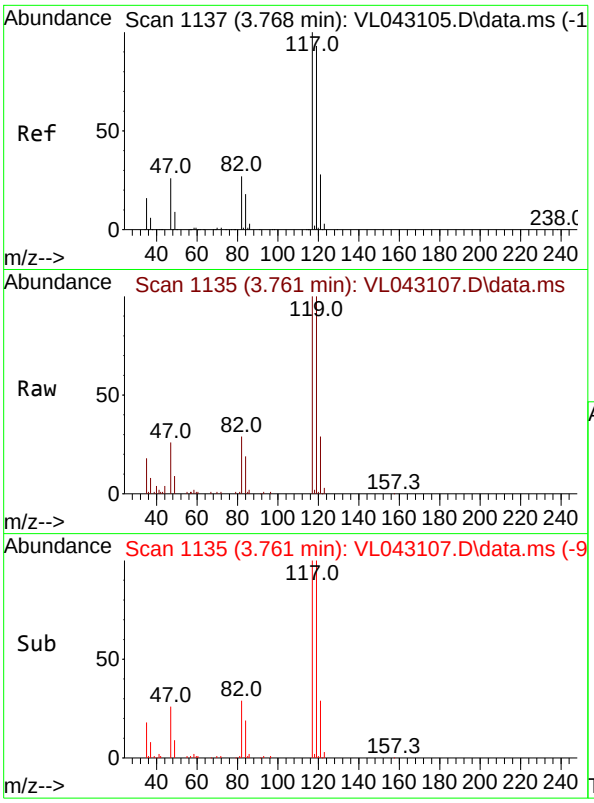


#34
2-Butanone
Concen: 1.047 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 23811

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.4	27.6



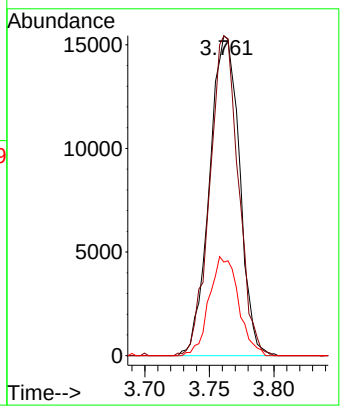


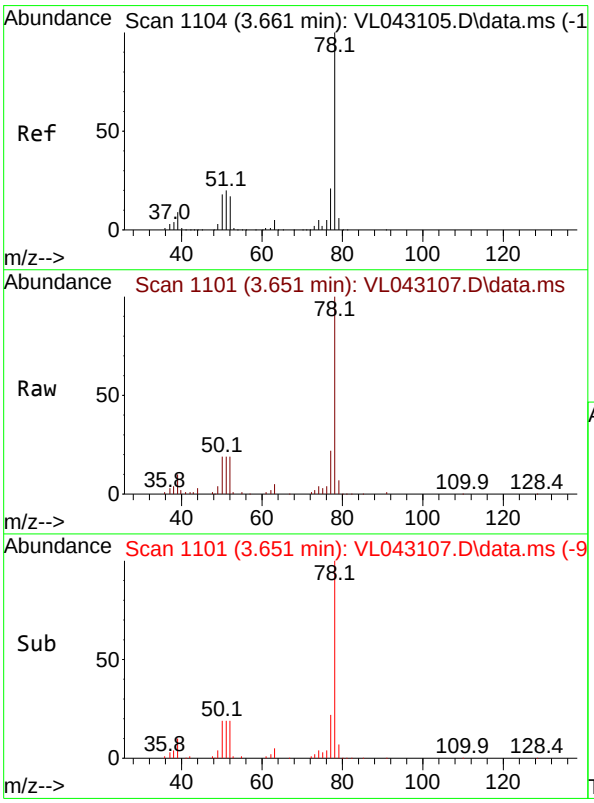
#35
Carbon Tetrachloride
Concen: 1.033 ppbv
RT: 3.761 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 24969

Ion	Ratio	Lower	Upper
117	100		
119	99.8	74.1	111.1
121	29.3	22.2	33.2

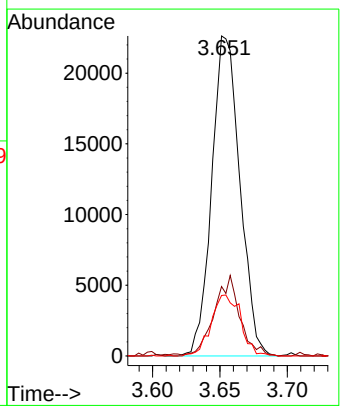


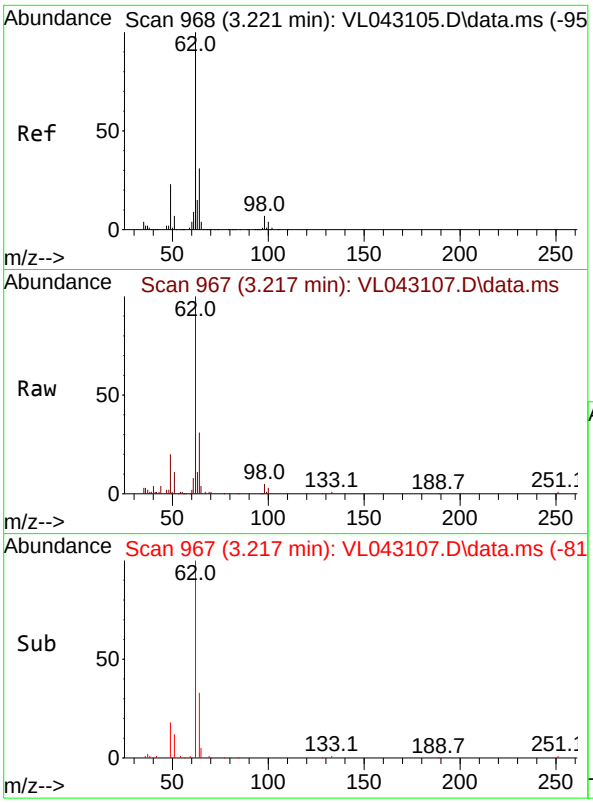


#36
Benzene
Concen: 1.040 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 78 Resp: 32940

Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.0	25.6
50	18.9	14.6	22.0



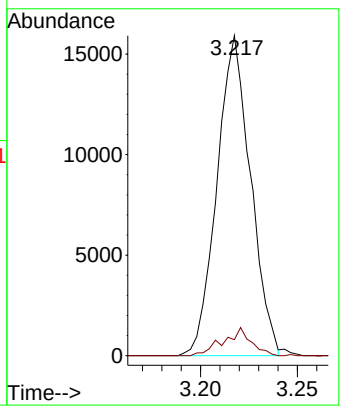


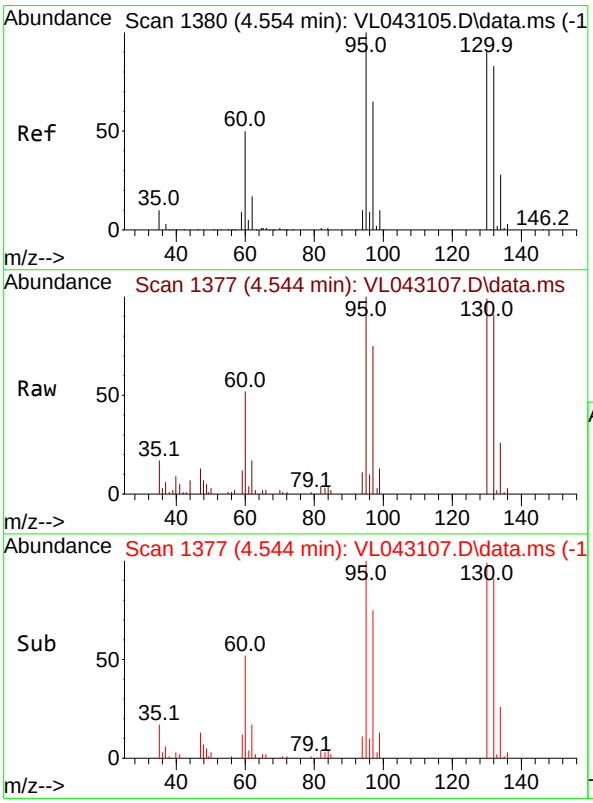
#37
1,2-Dichloroethane
Concen: 1.053 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 19213

Ion	Ratio	Lower	Upper
62	100		
98	7.2	5.8	8.6

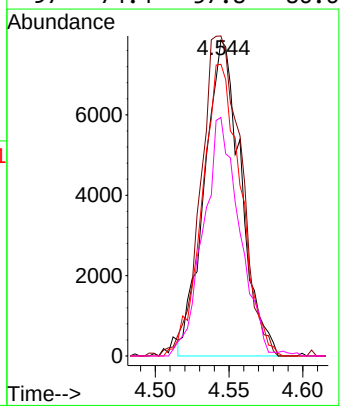


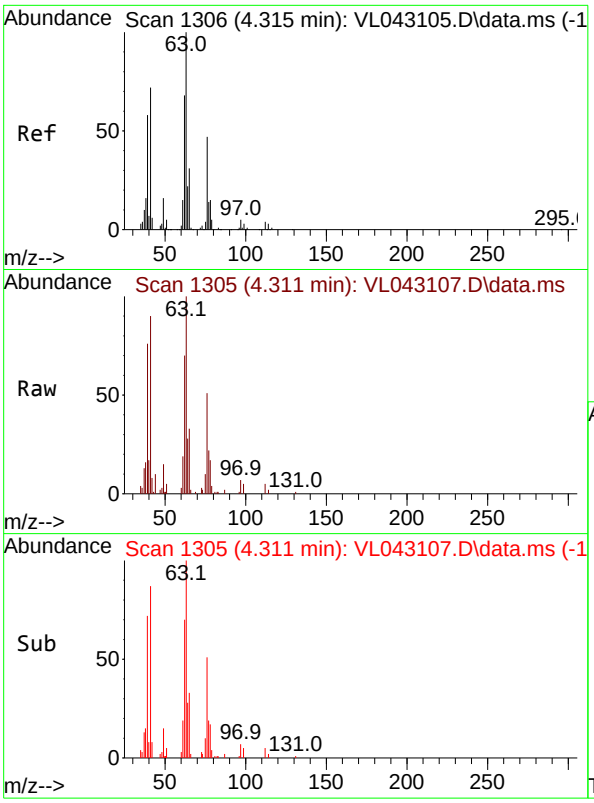


#38
Trichloroethene
Concen: 1.023 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:130 Resp: 13512

Ion	Ratio	Lower	Upper
130	100		
95	101.4	88.6	133.0
132	91.5	73.4	110.0
97	74.4	57.8	86.6



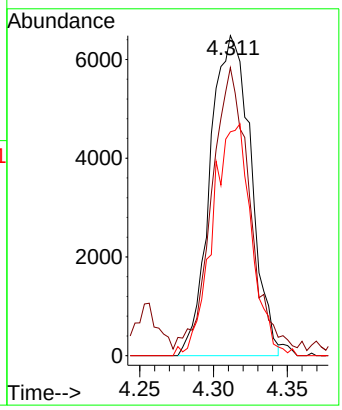


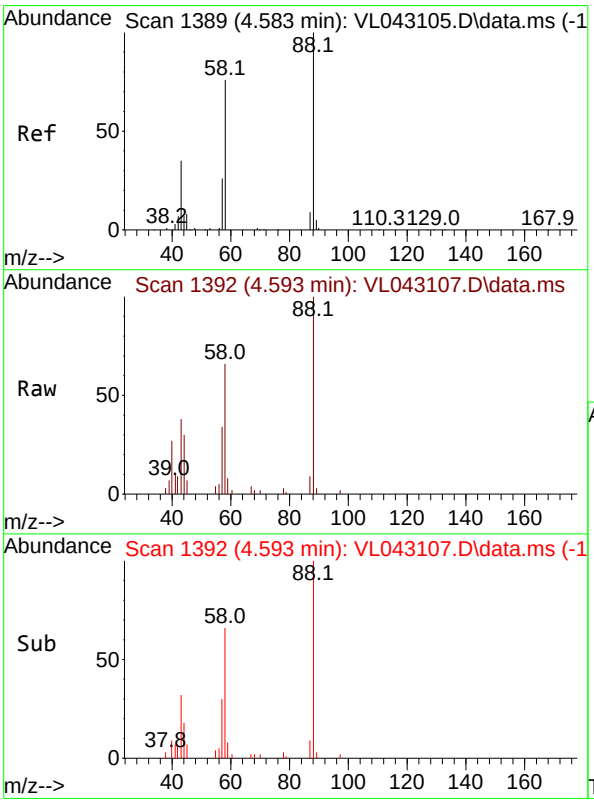
#39
1,2-Dichloropropane
Concen: 1.073 ppbv
RT: 4.311 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 12435

Ion	Ratio	Lower	Upper
63	100		
41	84.3	58.0	87.0
62	67.2	54.7	82.1

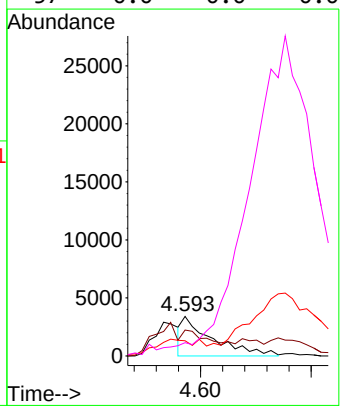


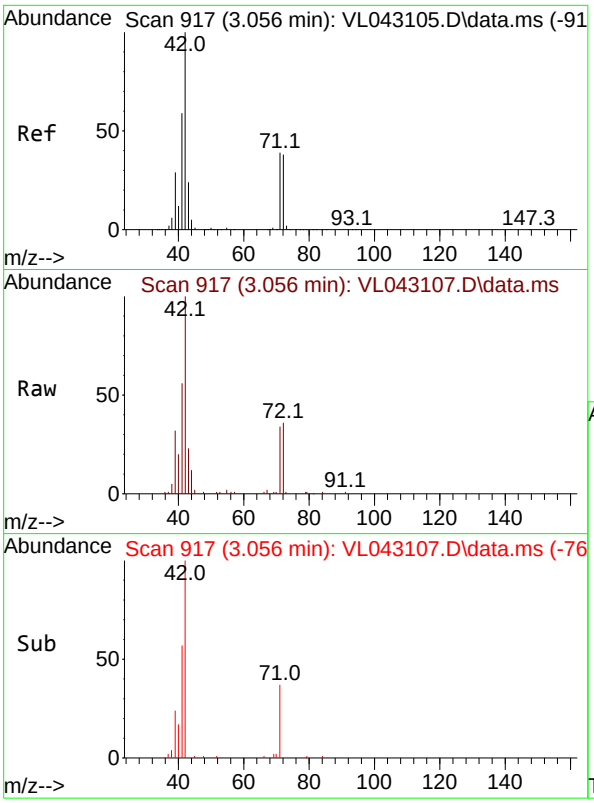


#40
1,4-Dioxane
Concen: 0.622 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.009 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 88 Resp: 3225

Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	0.0	24.0	36.0#
57	0.0	0.0	0.0



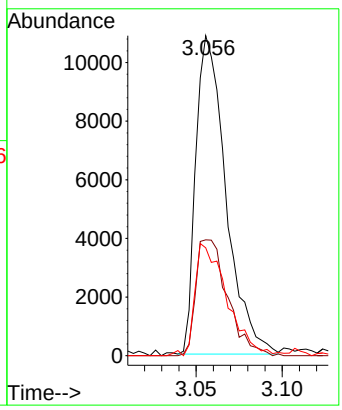


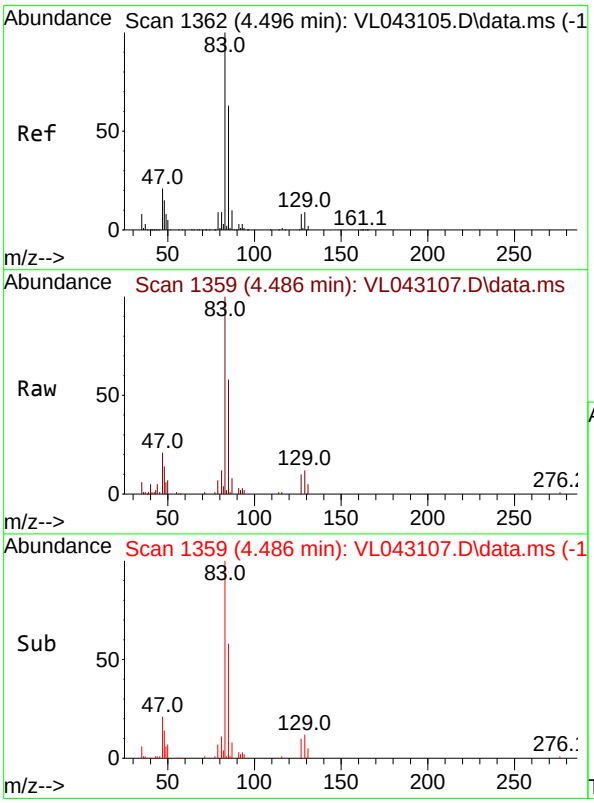
#41
Tetrahydrofuran
Concen: 1.044 ppbv
RT: 3.056 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 13251

Ion	Ratio	Lower	Upper
42	100		
72	38.1	31.3	46.9
71	38.6	30.4	45.6

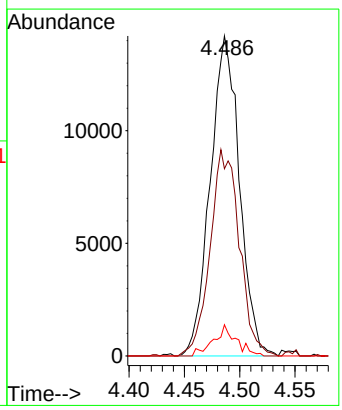


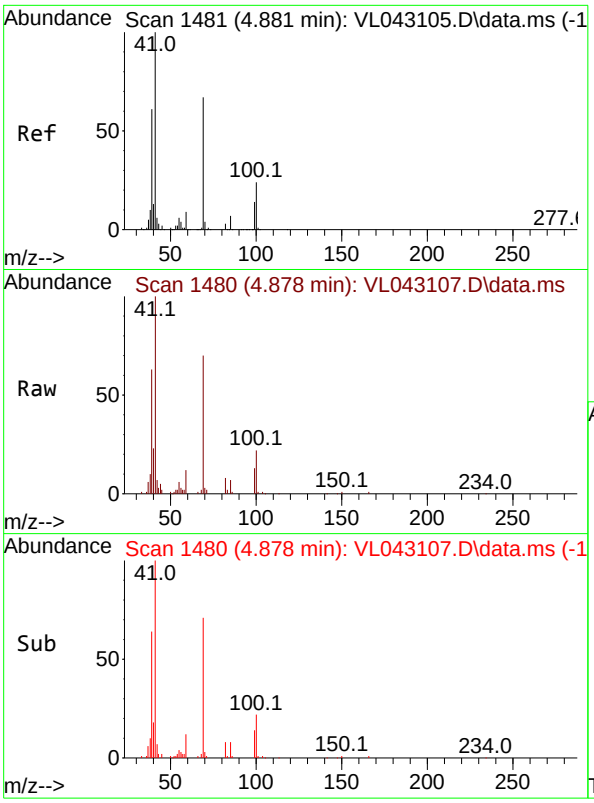


#42
Bromodichloromethane
Concen: 1.032 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 83 Resp: 26069

Ion	Ratio	Lower	Upper
83	100		
85	58.5	50.6	75.8
127	9.8	6.3	9.5#



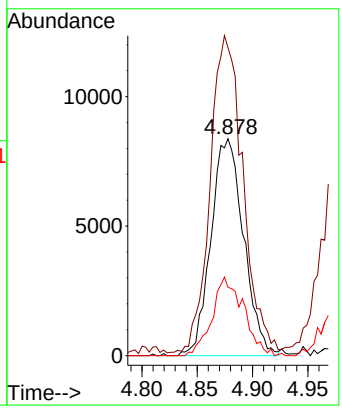


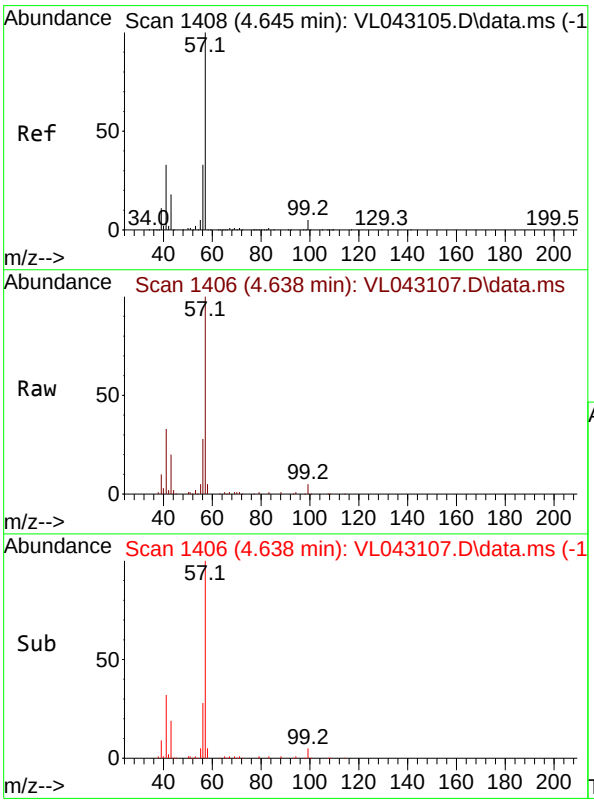
#43
Methyl Methacrylate
Concen: 1.064 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 17195

Ion	Ratio	Lower	Upper
69	100		
41	145.9	120.5	180.7
100	35.0	29.0	43.4

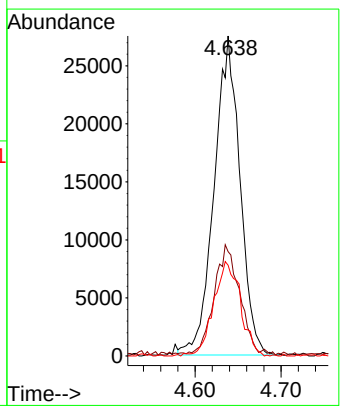


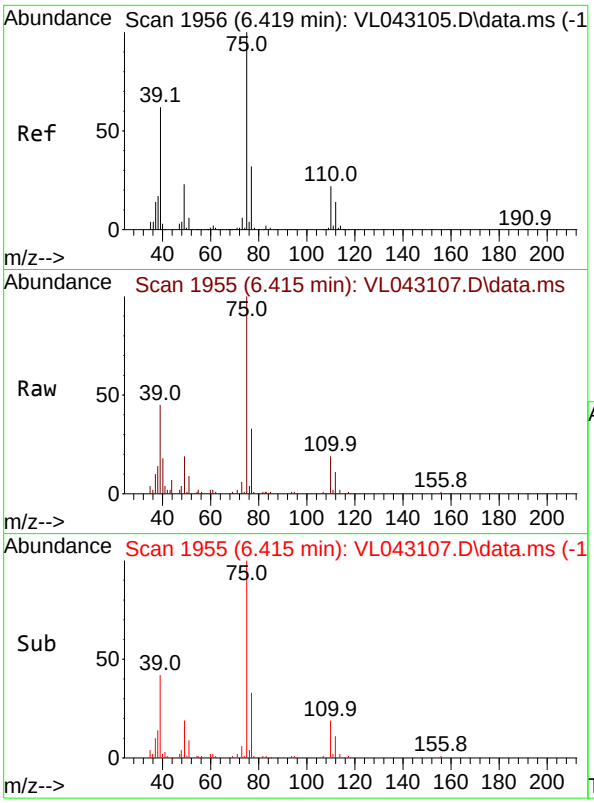


#44
2,2,4-Trimethylpentane
Concen: 1.084 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 57382

Ion	Ratio	Lower	Upper
57	100		
41	35.4	26.3	39.5
56	30.7	25.9	38.9



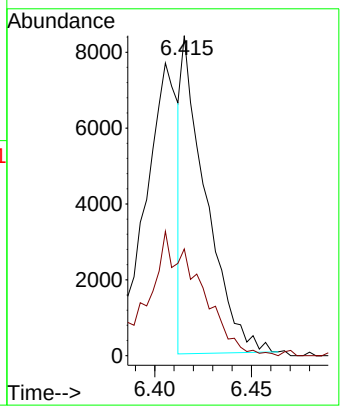


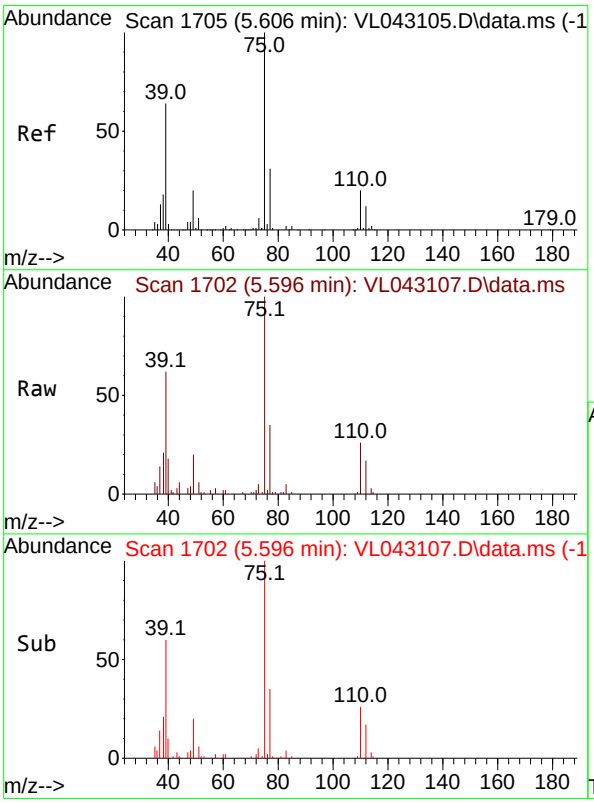
#45
t-1,3-Dichloropropene
Concen: 0.452 ppbv
RT: 6.415 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 7304

Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.4	38.2

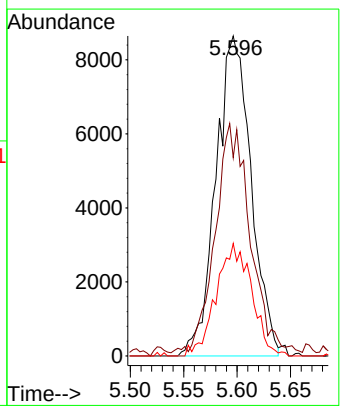


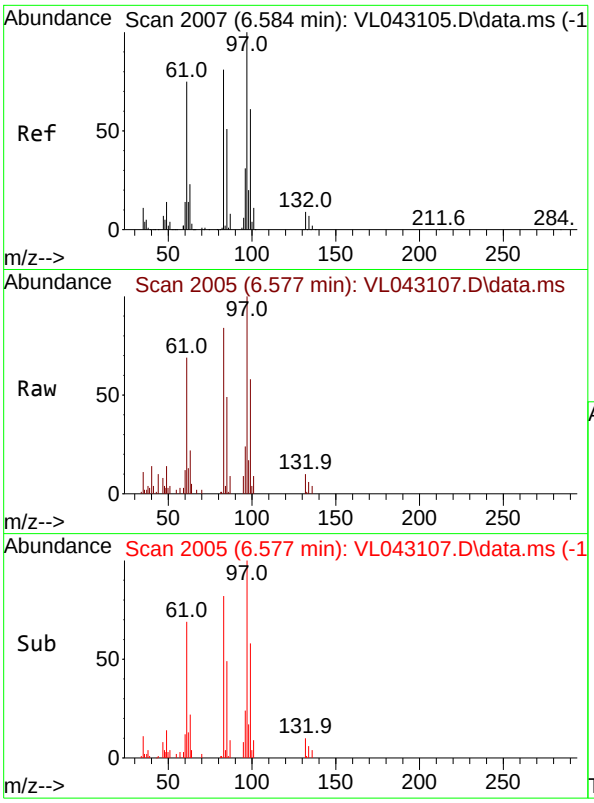


#46
cis-1,3-Dichloropropene
Concen: 1.029 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 75 Resp: 19830

Ion	Ratio	Lower	Upper
75	100		
39	59.6	51.0	76.6
77	35.1	25.0	37.4



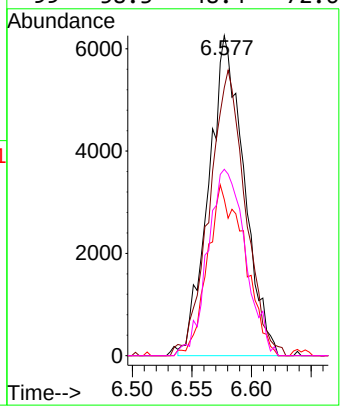


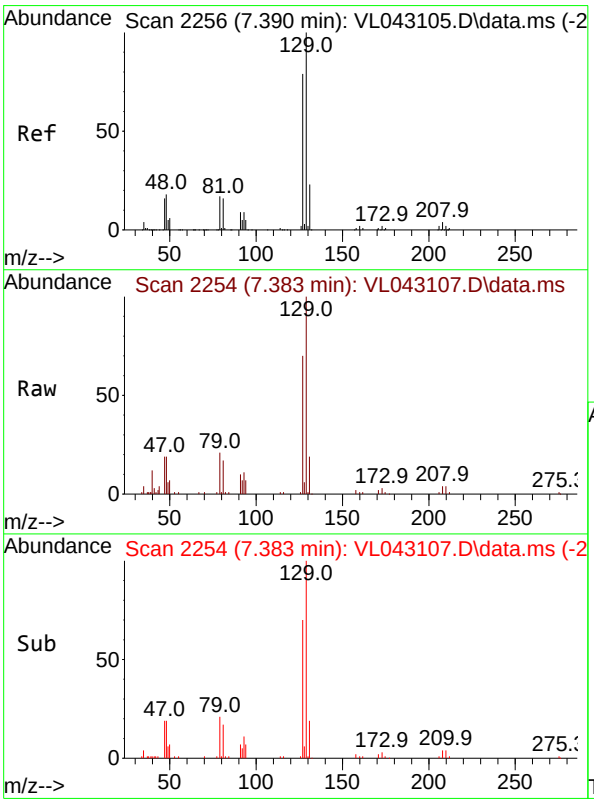
#47
1,1,2-Trichloroethane
Concen: 1.030 ppbv
RT: 6.577 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 12876

Ion	Ratio	Lower	Upper
97	100		
83	80.9	64.6	96.8
85	48.8	40.6	60.8
99	58.3	48.4	72.6

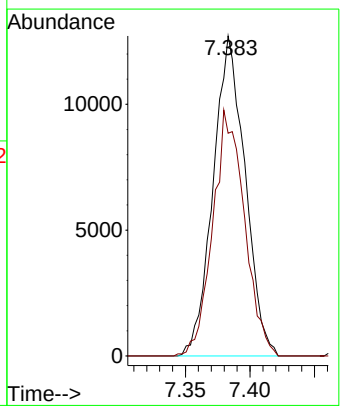


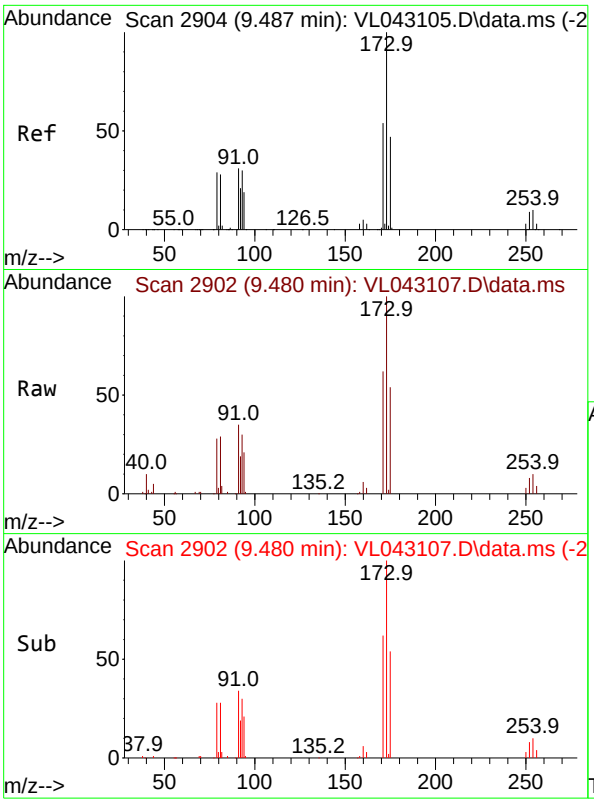


#48
Dibromochloromethane
Concen: 1.046 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:129 Resp: 21874

Ion	Ratio	Lower	Upper
129	100		
127	76.1	39.3	117.9



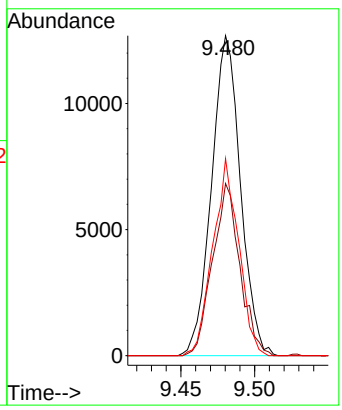


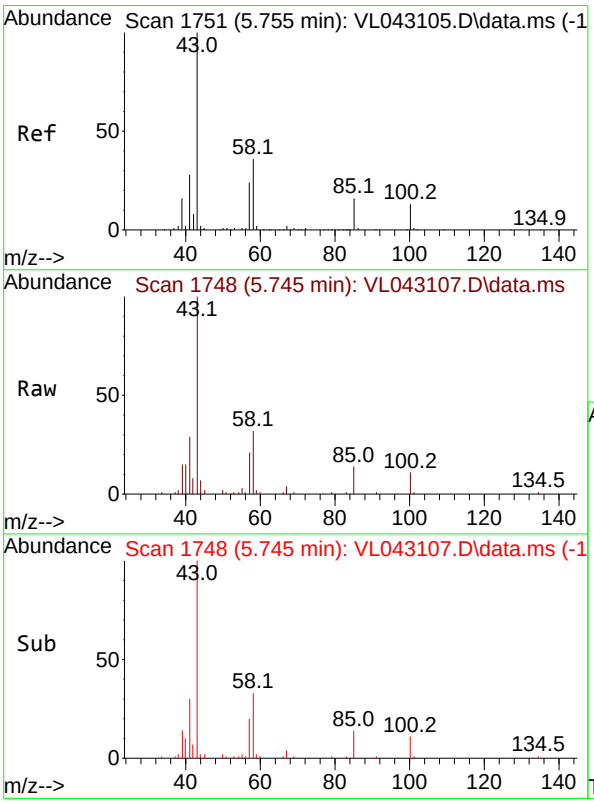
#49
Bromoform
Concen: 1.019 ppbv
RT: 9.480 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 17320

Ion	Ratio	Lower	Upper
173	100		
175	50.9	38.8	58.2
171	55.0	41.7	62.5

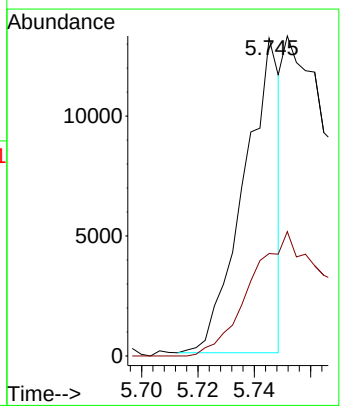


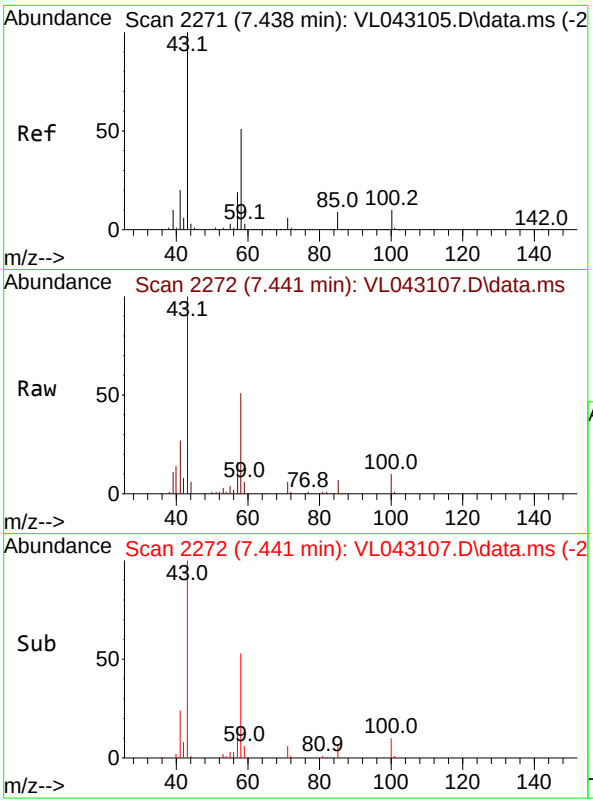


#50
4-Methyl-2-Pentanone
Concen: 0.371 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 11642

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7#



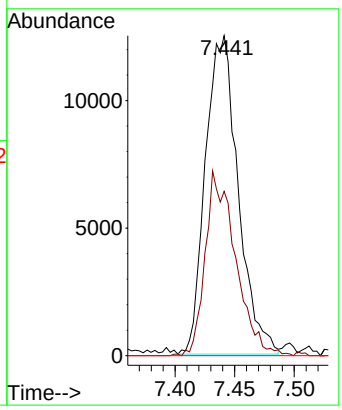


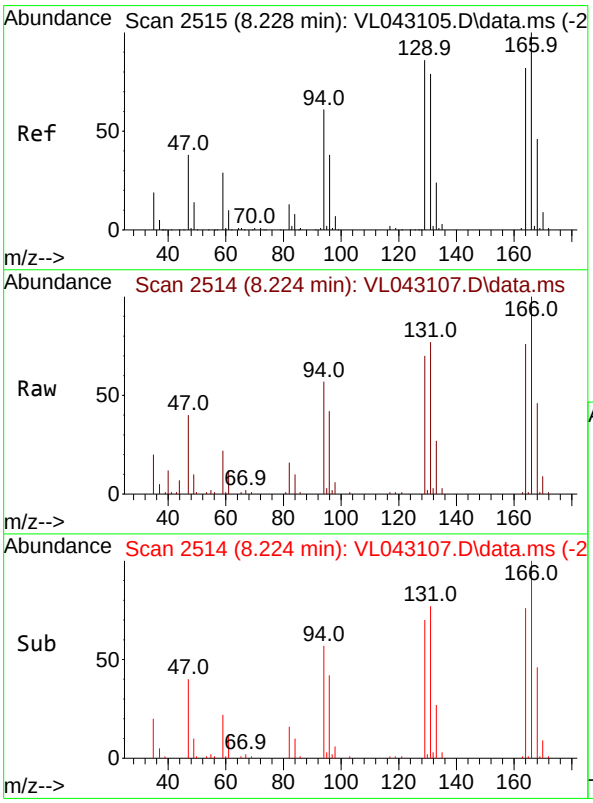
#51
2-Hexanone
Concen: 1.018 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 23817

Ion	Ratio	Lower	Upper
43	100		
58	53.7	40.4	60.6
98	0.0	0.1	0.1#

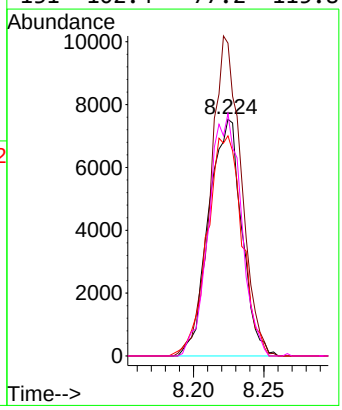


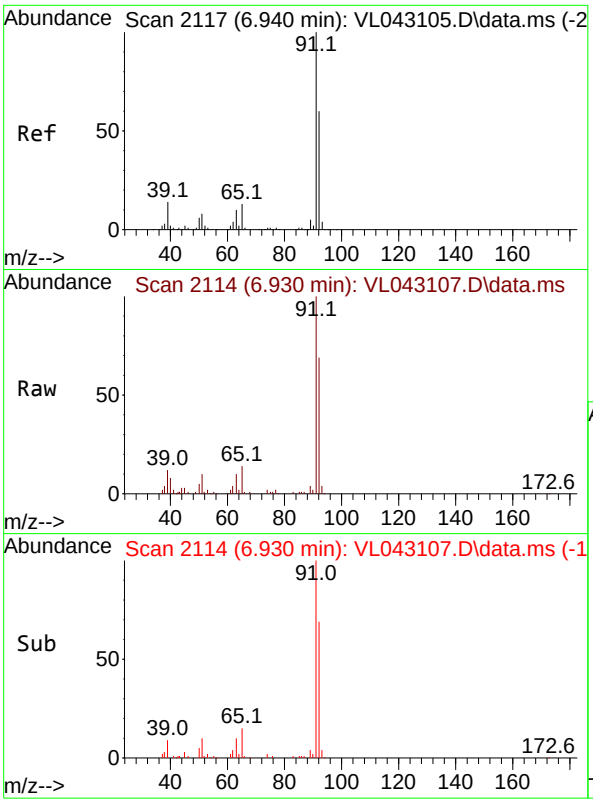


#52
Tetrachloroethene
Concen: 1.079 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:164 Resp: 12319

Ion	Ratio	Lower	Upper
164	100		
166	132.1	97.6	146.4
129	93.0	84.5	126.7
131	102.4	77.2	115.8



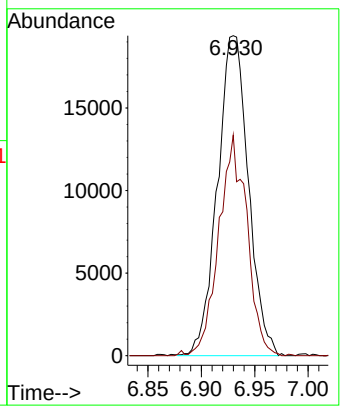


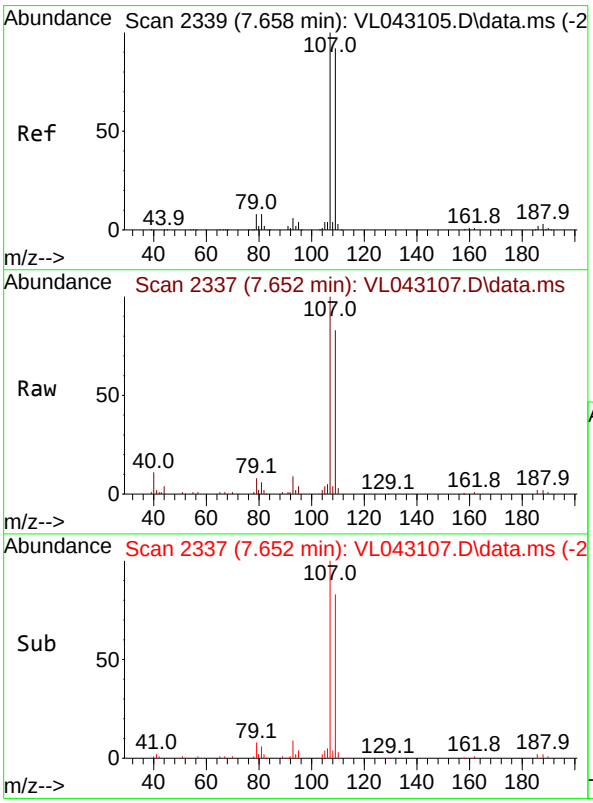
#53
Toluene
Concen: 1.040 ppbv
RT: 6.930 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 39079

Ion	Ratio	Lower	Upper
91	100		
92	62.8	48.8	73.2

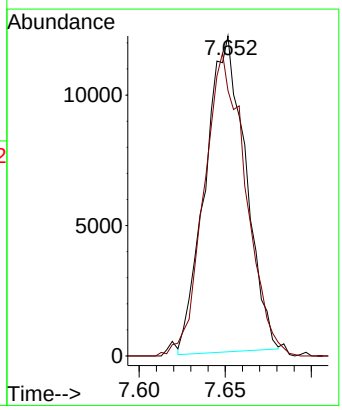


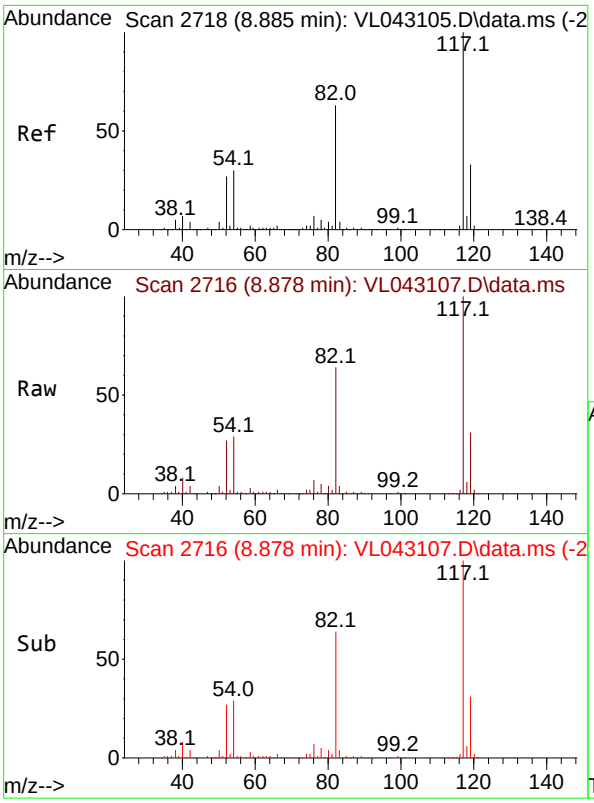


#54
1,2-Dibromoethane
Concen: 0.999 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:107 Resp: 19711

Ion	Ratio	Lower	Upper
107	100		
109	80.7	73.4	110.2



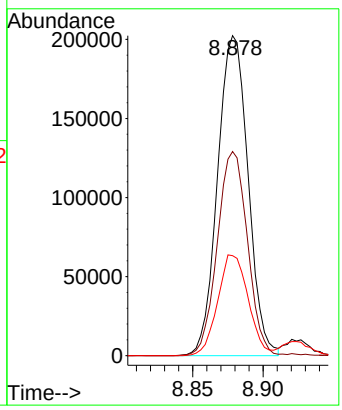


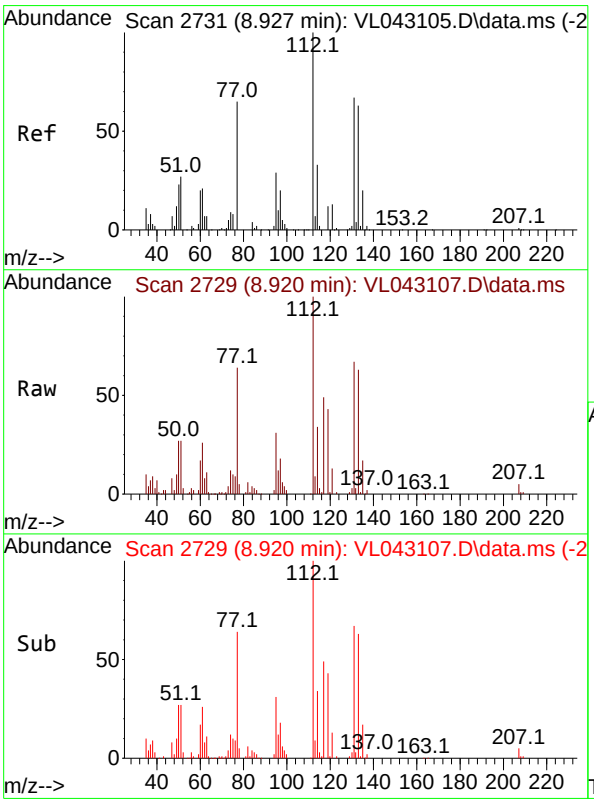
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 305409

Ion	Ratio	Lower	Upper
117	100		
82	63.4	53.8	80.8
119	32.3	25.4	38.0

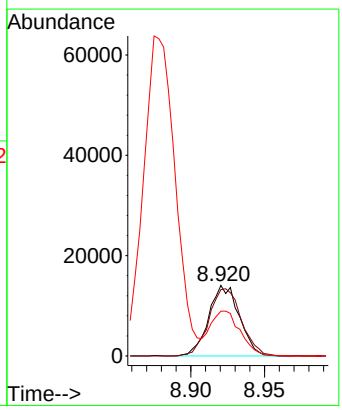


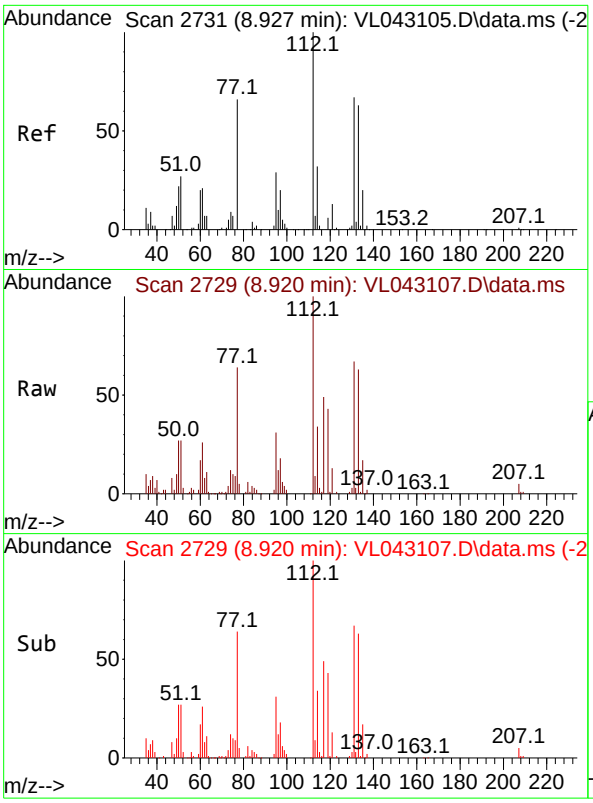


#56
1,1,1,2-Tetrachloroethane
Concen: 1.053 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:131 Resp: 20279

Ion	Ratio	Lower	Upper
131	100		
133	100.9	75.7	113.5
119	62.1	50.6	76.0



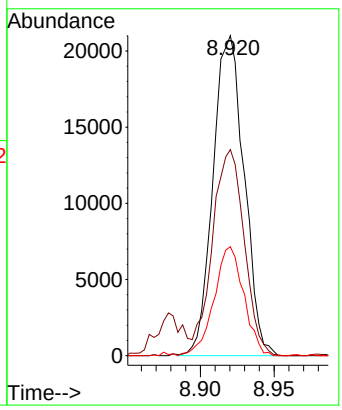


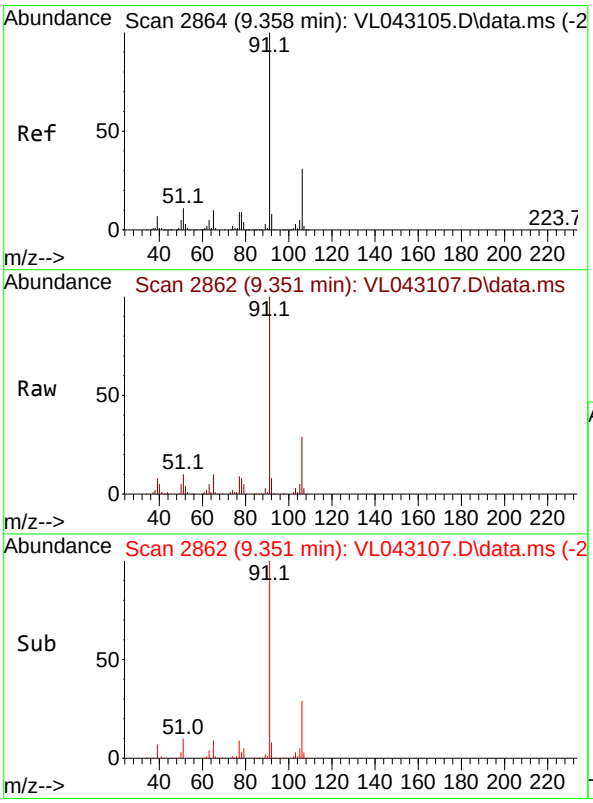
#57
Chlorobenzene
Concen: 1.079 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 30824

Ion	Ratio	Lower	Upper
112	100		
77	64.2	53.3	79.9
114	34.1	29.3	35.8

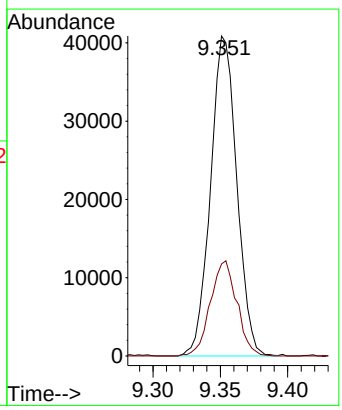


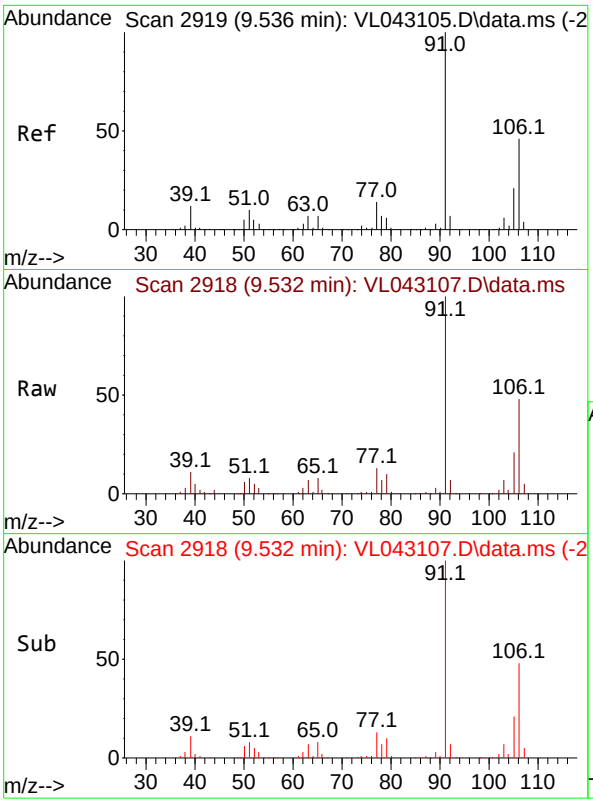


#58
Ethyl Benzene
Concen: 1.049 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 55420

Ion	Ratio	Lower	Upper
91	100		
106	28.7	24.8	37.2



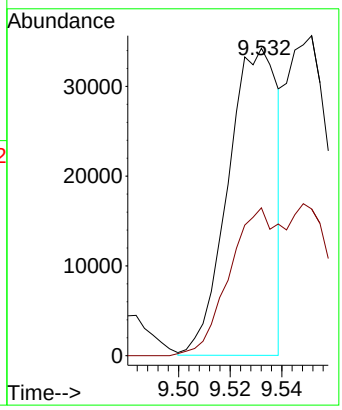


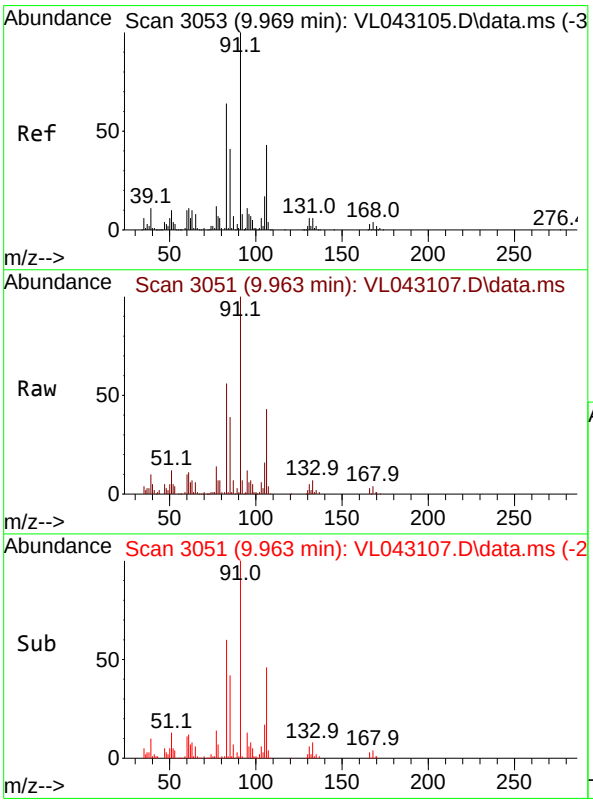
#59
m/p-Xylene
Concen: 1.087 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 45483

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

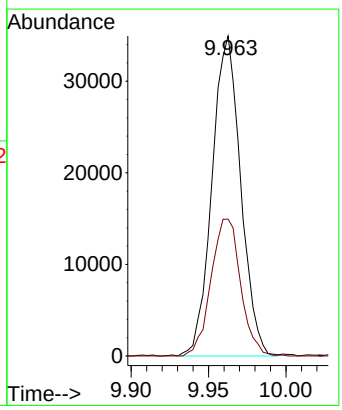


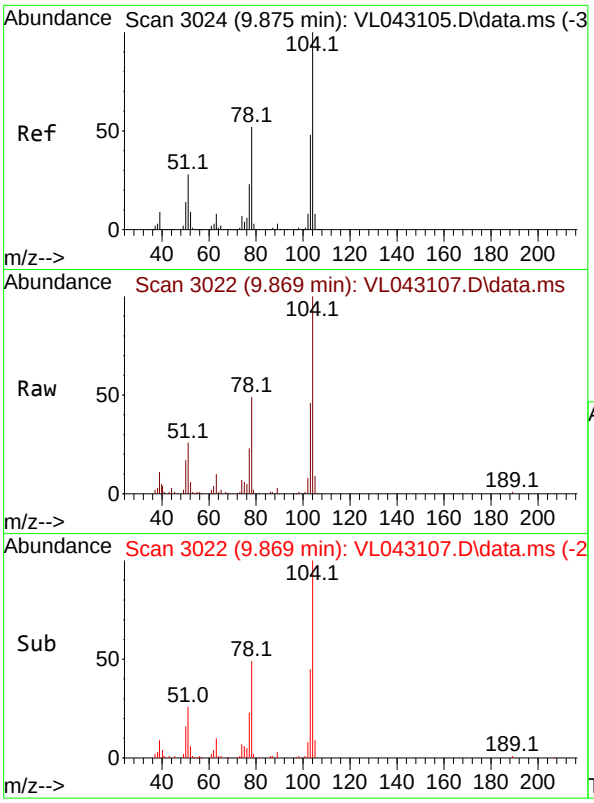


#60
o-Xylene
Concen: 1.088 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 44925

Ion	Ratio	Lower	Upper
91	100		
106	44.1	21.9	65.8



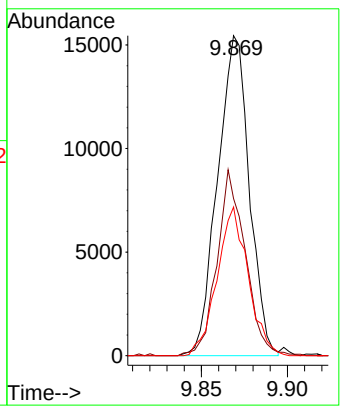


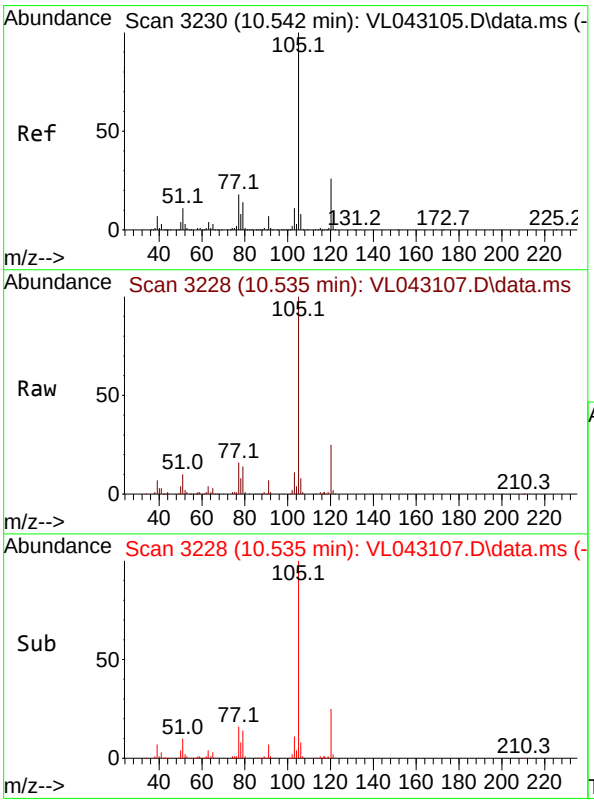
#61
Styrene
Concen: 1.063 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:104 Resp: 19809

Ion	Ratio	Lower	Upper
104	100		
78	51.8	40.2	60.2
103	45.5	36.9	55.3

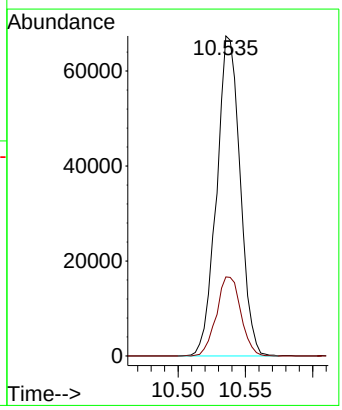


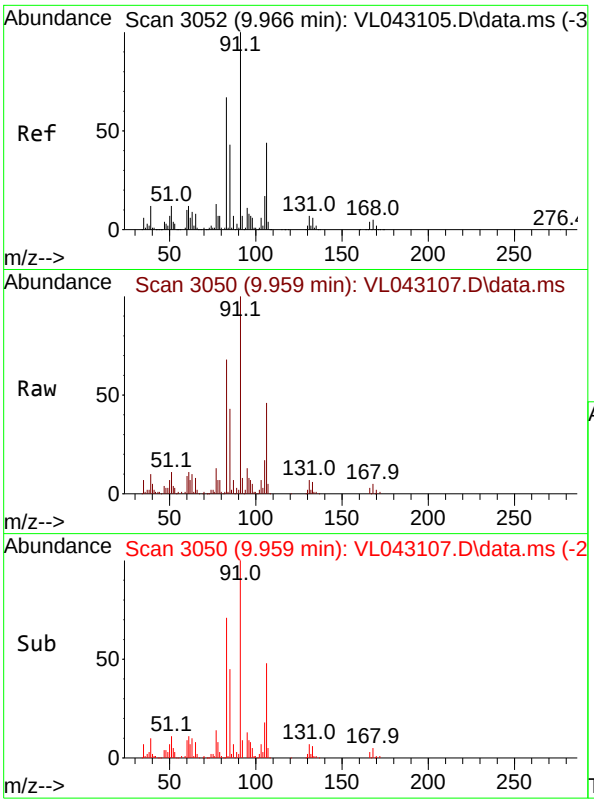


#62
Isopropylbenzene
Concen: 1.093 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 81579

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.2	30.4



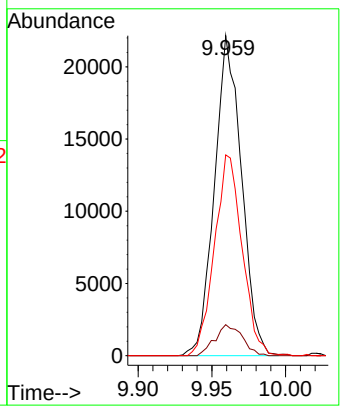


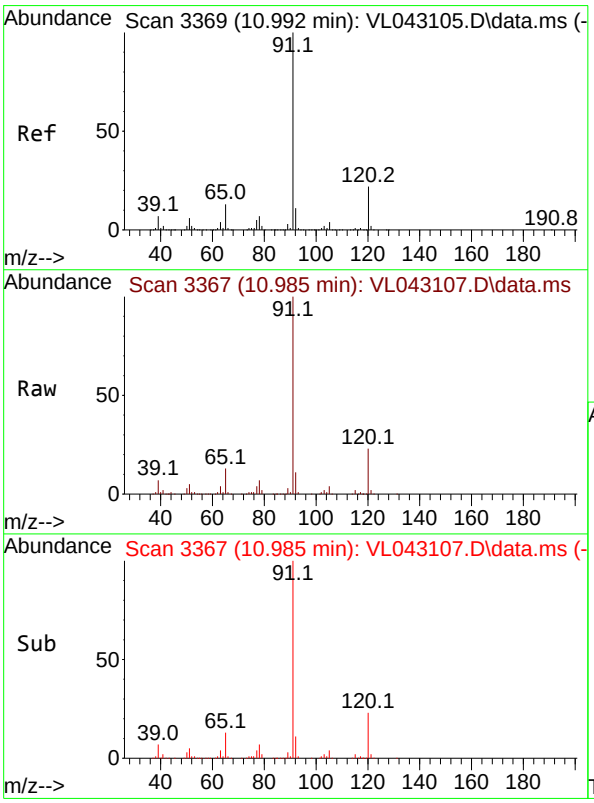
#63
1,1,2,2-Tetrachloroethane
Concen: 1.021 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 28230

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.3
85	64.3	32.0	96.0

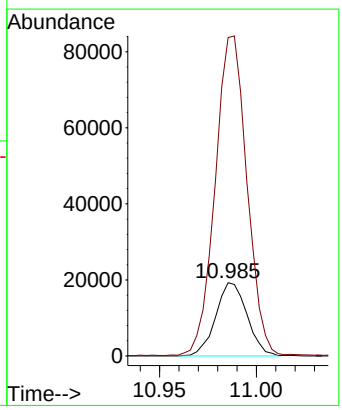


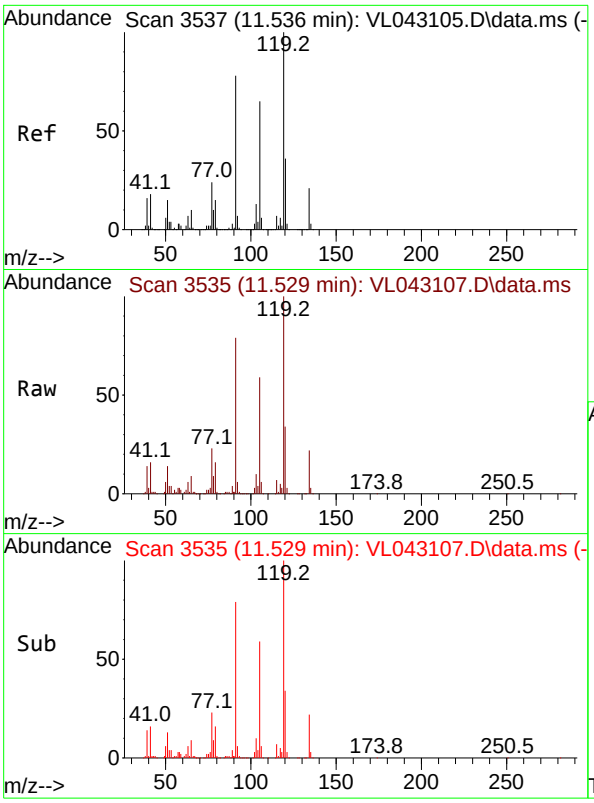


#64
n-propylbenzene
Concen: 1.098 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:120 Resp: 21685

Ion	Ratio	Lower	Upper
120	100		
91	446.5	361.6	542.4



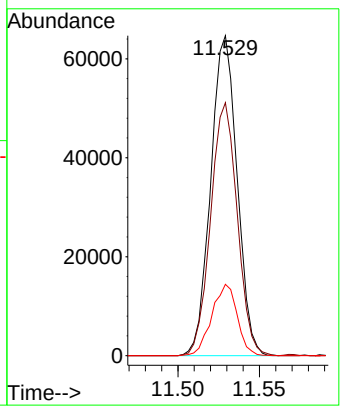


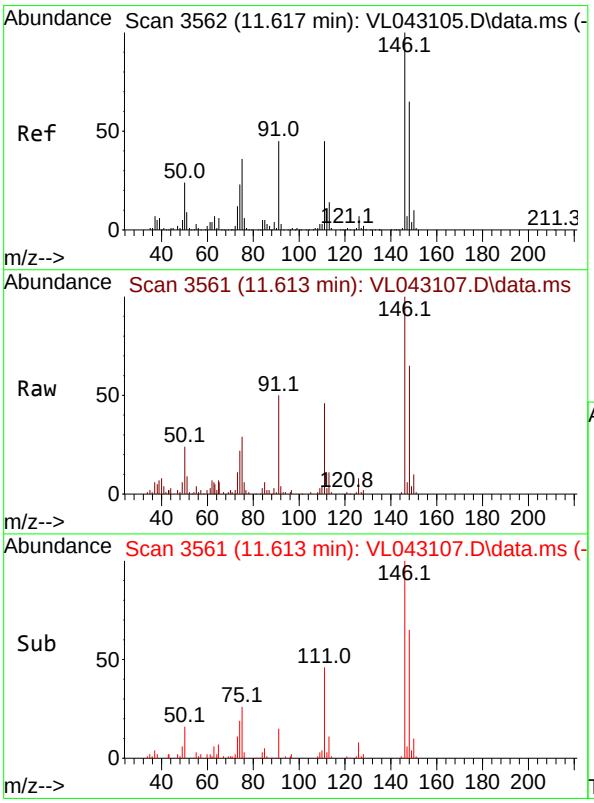
#65
tert-Butylbenzene
Concen: 1.105 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 72781

Ion	Ratio	Lower	Upper
119	100		
91	79.8	63.4	95.0
134	21.5	17.3	25.9

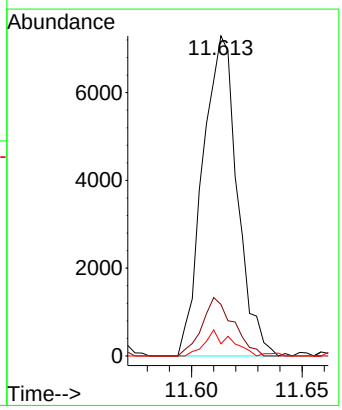


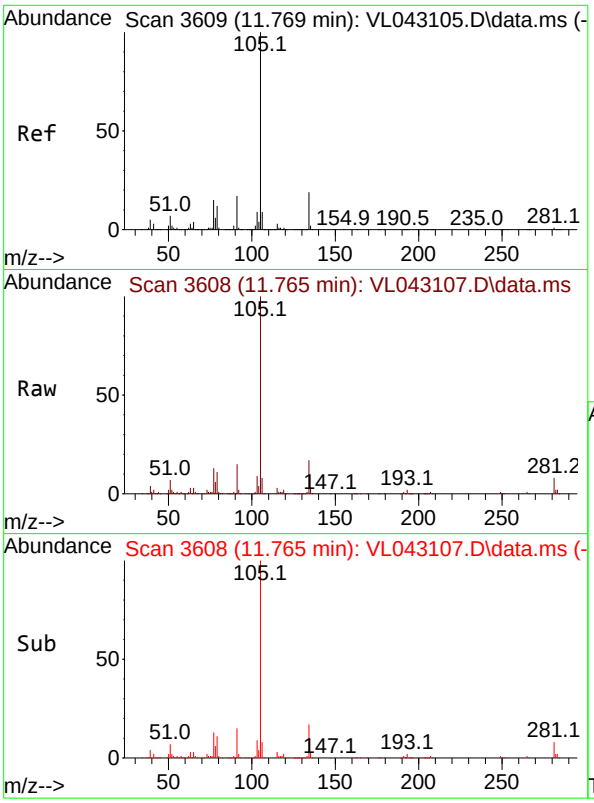


#66
Benzyl Chloride
Concen: 1.076 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 7918

Ion	Ratio	Lower	Upper
91	100		
126	16.6	14.6	22.0
128	6.6	4.6	6.8



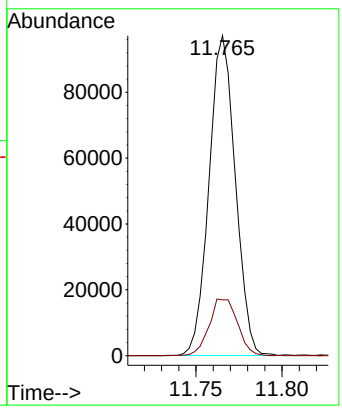


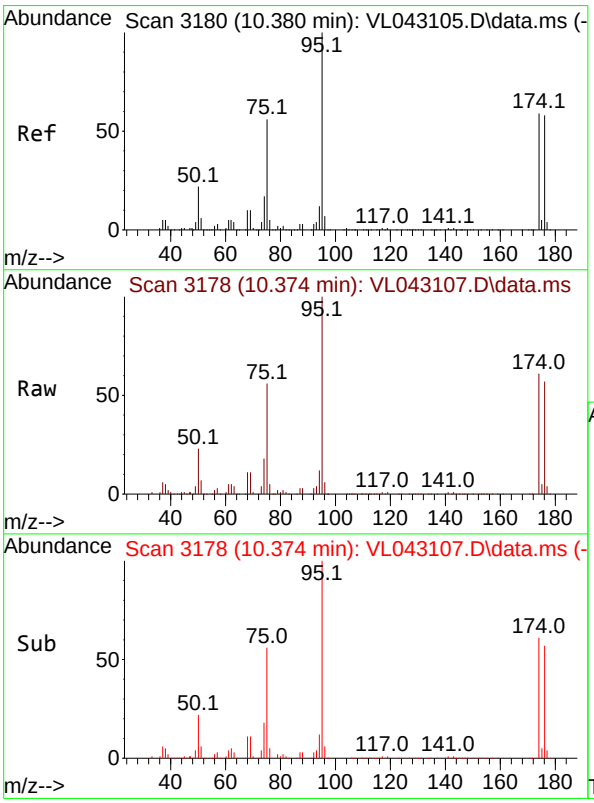
#67
sec-Butylbenzene
Concen: 1.103 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 103152

Ion	Ratio	Lower	Upper
105	100		
134	19.2	15.5	23.3

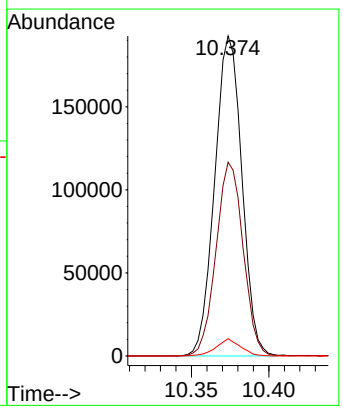


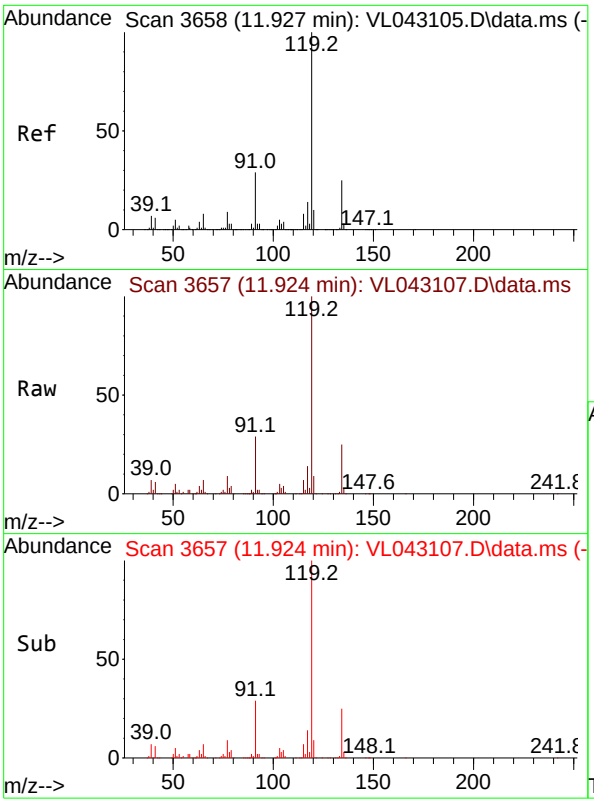


#68
1-Bromo-4-Fluorobenzene
Concen: 9.912 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 95 Resp: 235307

Ion	Ratio	Lower	Upper
95	100		
174	60.3	48.3	72.5
175	4.8	3.8	5.8



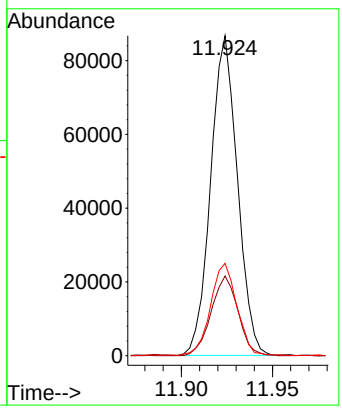


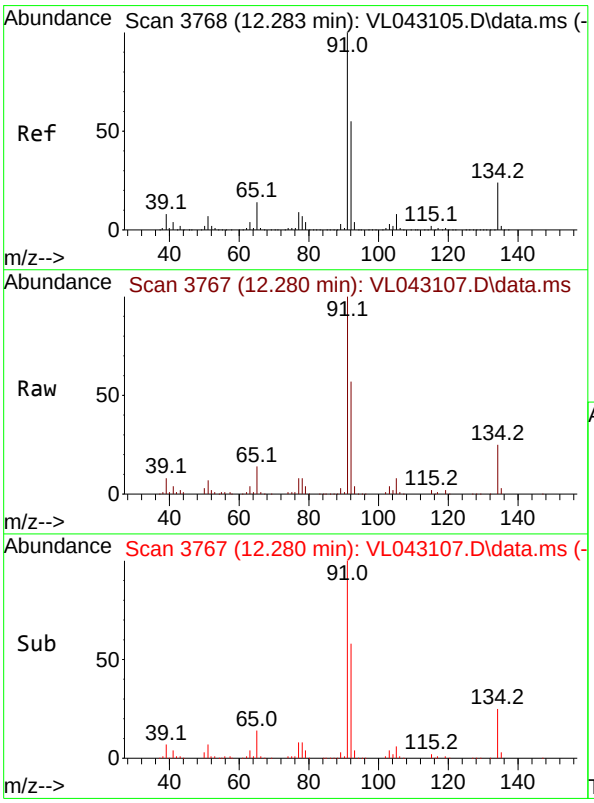
#69
p-Isopropyltoluene
Concen: 1.113 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 88443

Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.3	30.5
91	28.9	22.6	33.8

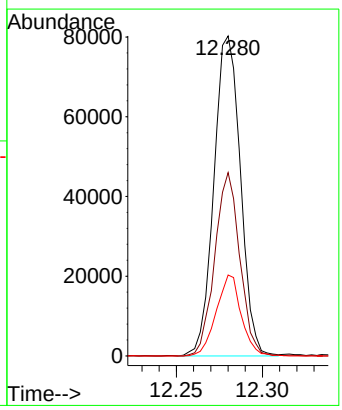


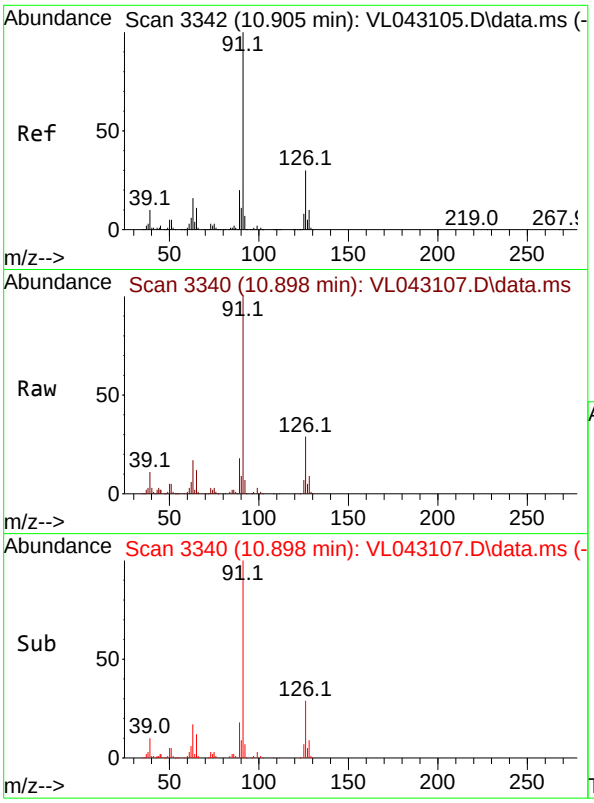


#70
n-Butylbenzene
Concen: 1.100 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 86120

Ion	Ratio	Lower	Upper
91	100		
92	54.1	44.5	66.7
134	23.9	19.3	28.9



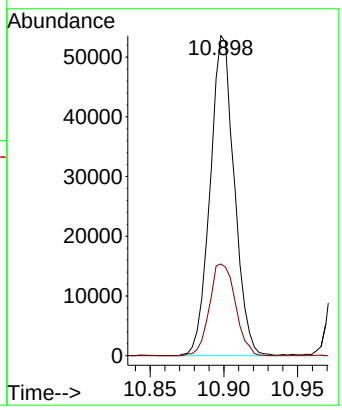


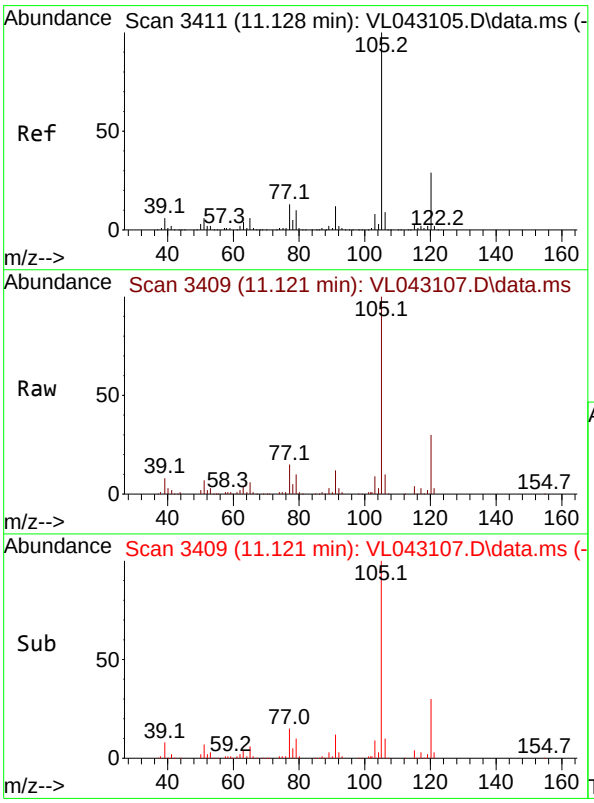
#71
2-Chlorotoluene
Concen: 1.072 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 60994

Ion	Ratio	Lower	Upper
91	100		
126	30.8	12.0	48.0

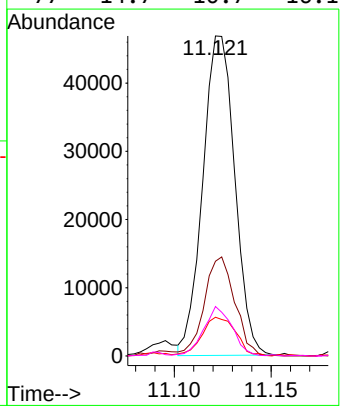


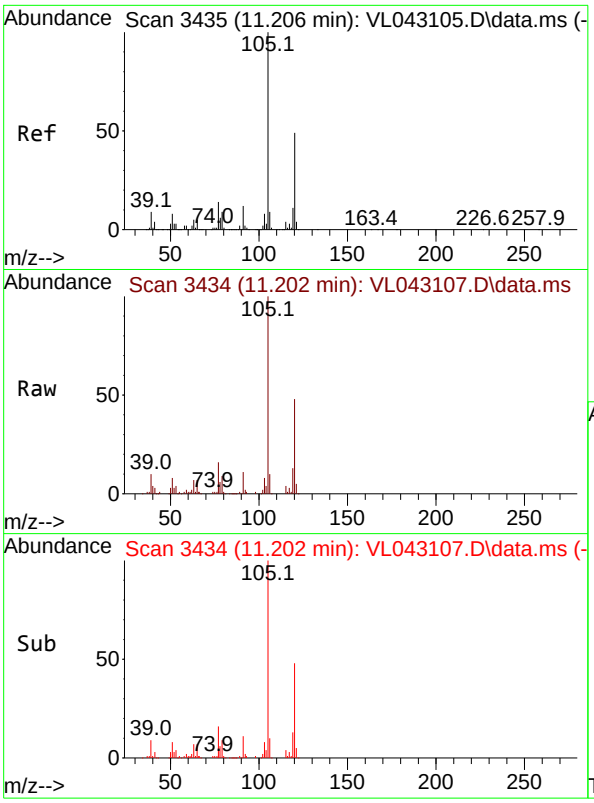


#72
4-Ethyltoluene
Concen: 1.059 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 53788

Ion	Ratio	Lower	Upper
105	100		
120	31.0	24.2	36.4
91	14.0	10.0	15.0
77	14.7	10.7	16.1



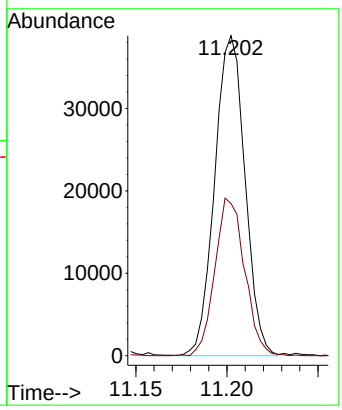


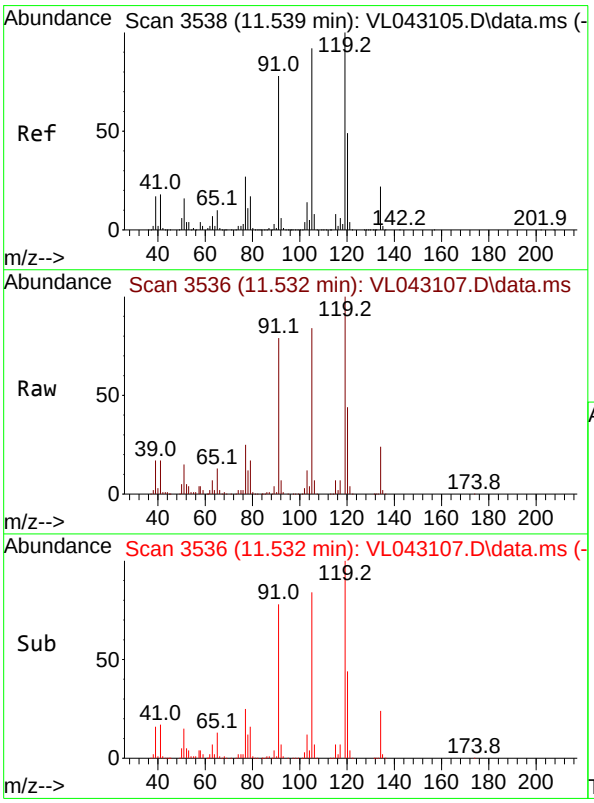
#73
1,3,5-Trimethylbenzene
Concen: 1.070 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 44786

Ion	Ratio	Lower	Upper
105	100		
120	47.3	39.0	58.6

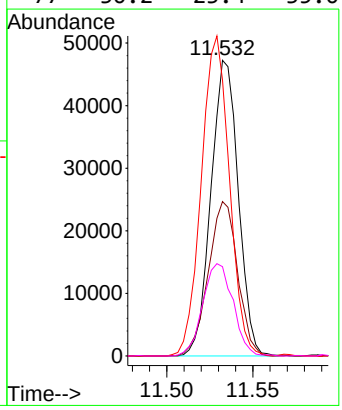


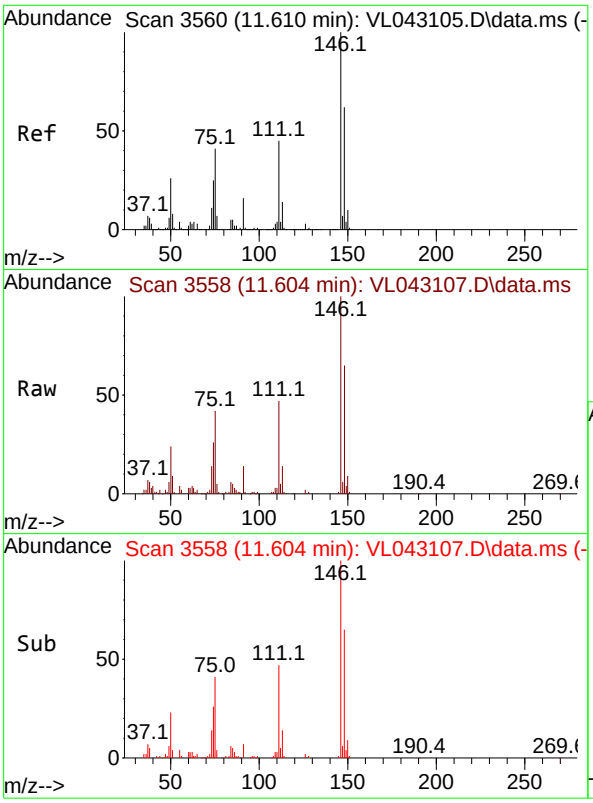


#74
1,2,4-Trimethylbenzene
Concen: 1.112 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 52118

Ion	Ratio	Lower	Upper
105	100		
120	52.2	42.8	64.2
91	93.1	68.3	102.5
77	30.2	23.4	35.0



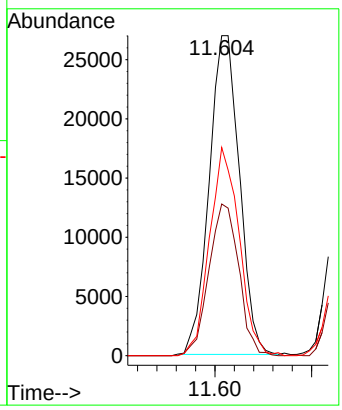


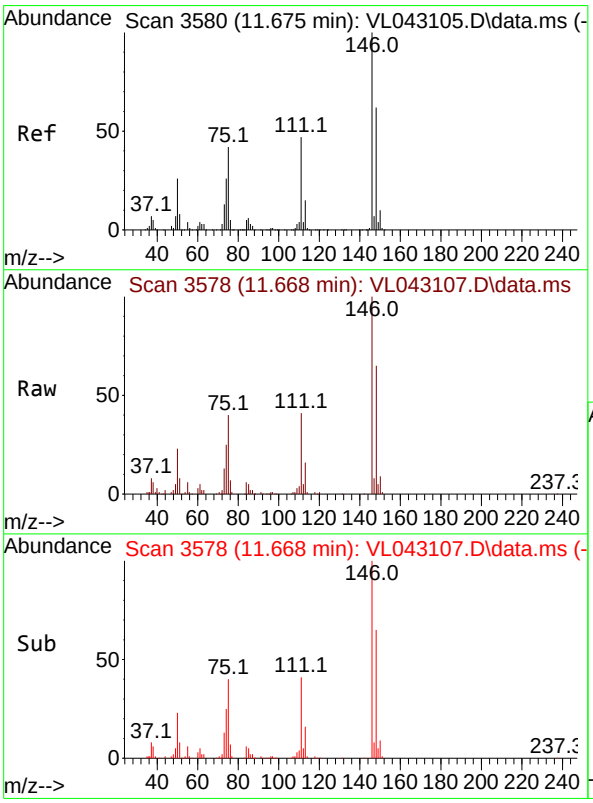
#75
1,3-Dichlorobenzene
Concen: 1.074 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 29186

Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.3	69.9
148	64.0	31.6	95.0

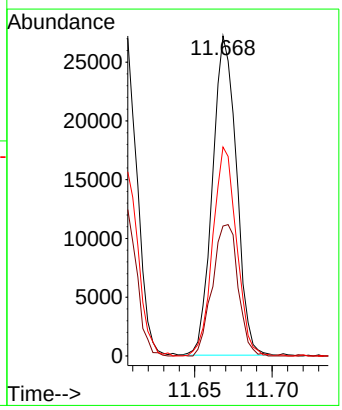


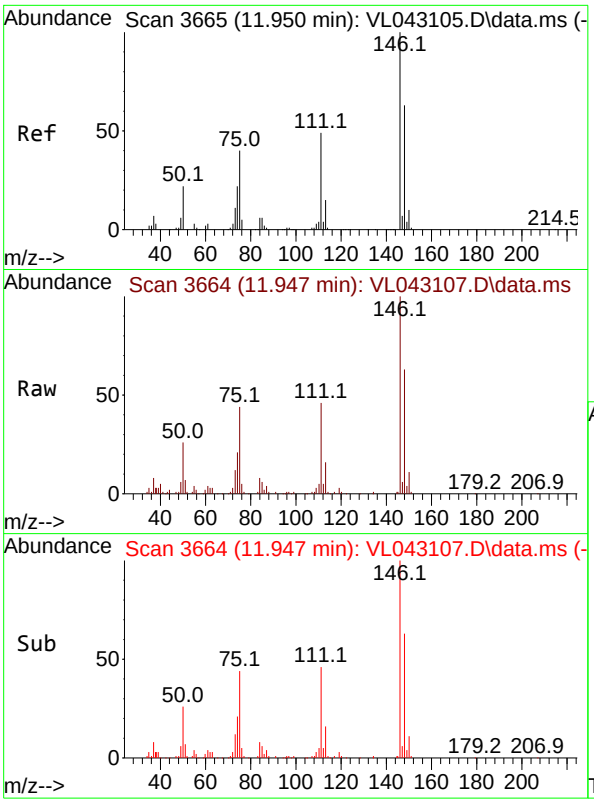


#76
1,4-Dichlorobenzene
Concen: 1.066 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:146 Resp: 29225

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.4	67.0
148	65.0	31.6	94.7



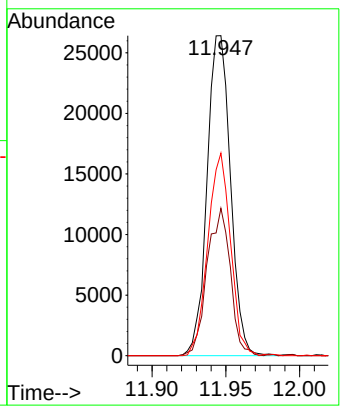


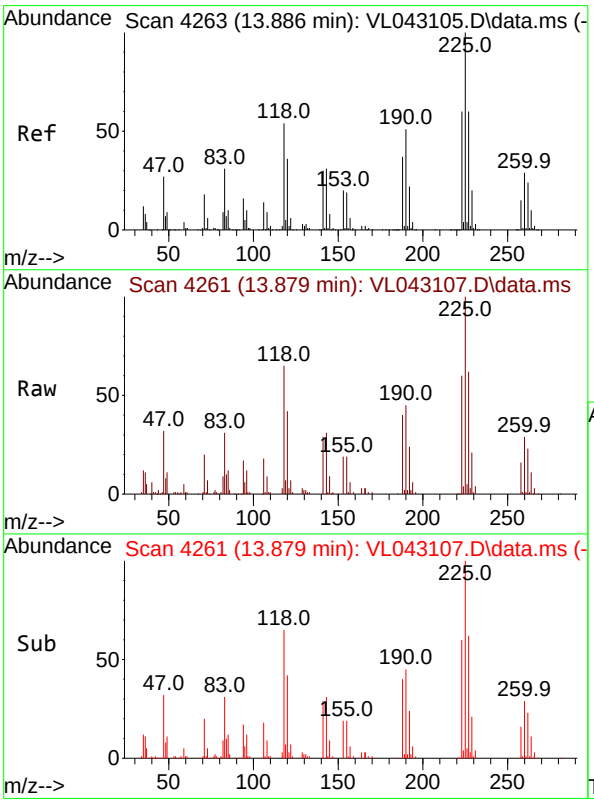
#77
1,2-Dichlorobenzene
Concen: 1.109 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 29146

Ion	Ratio	Lower	Upper
146	100		
111	45.8	24.0	72.0
148	61.5	31.1	93.3

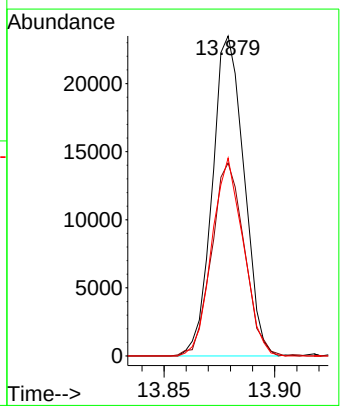


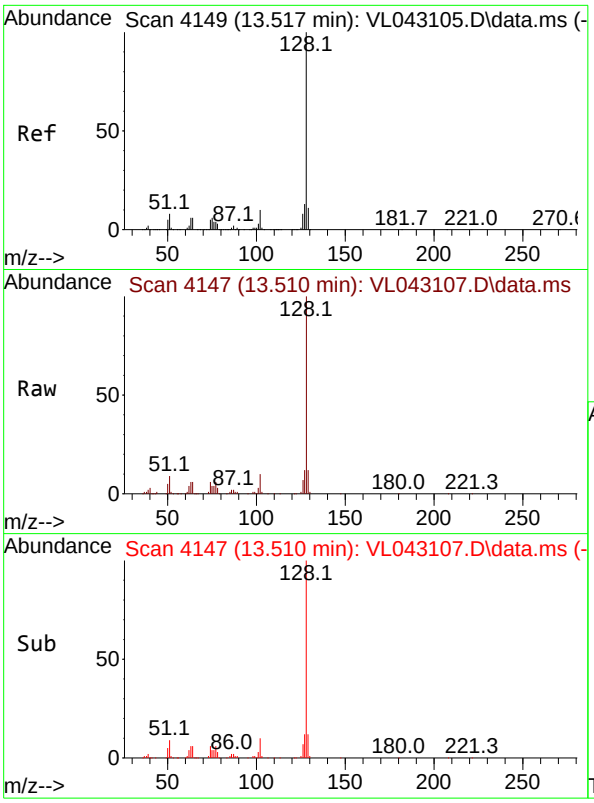


#78
Hexachloro-1,3-Butadiene
Concen: 1.146 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:225 Resp: 23330

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.2	75.4
227	61.6	49.6	74.4



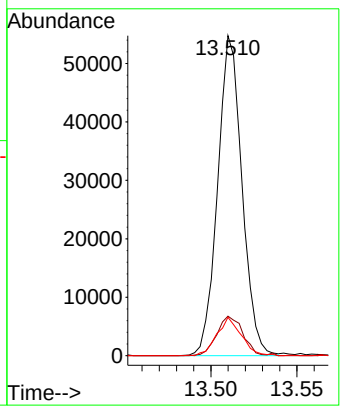


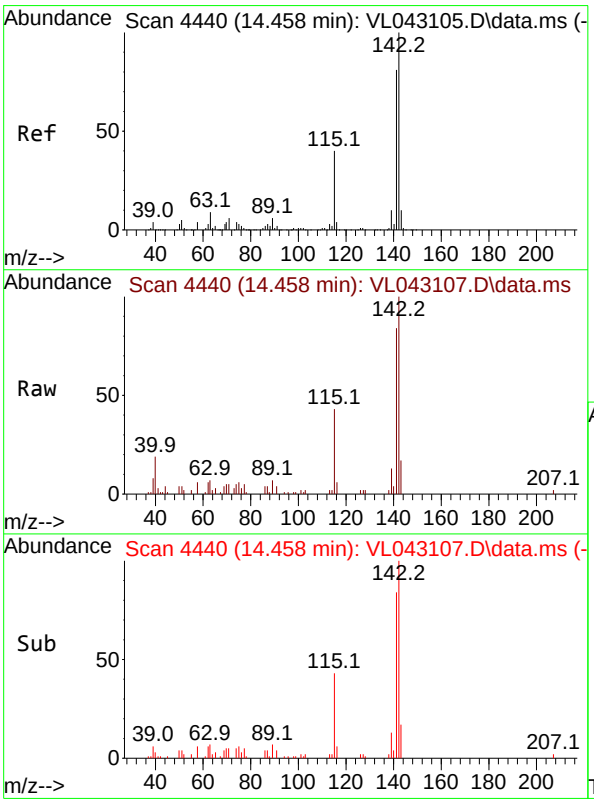
#79
Naphthalene
Concen: 1.114 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 53930

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.5	15.7
129	12.0	9.1	13.7

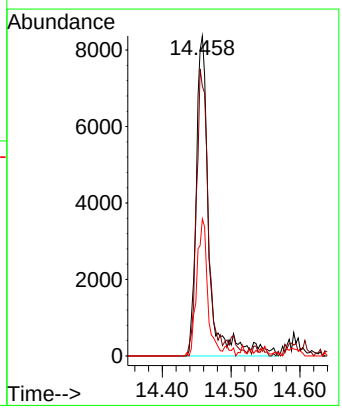


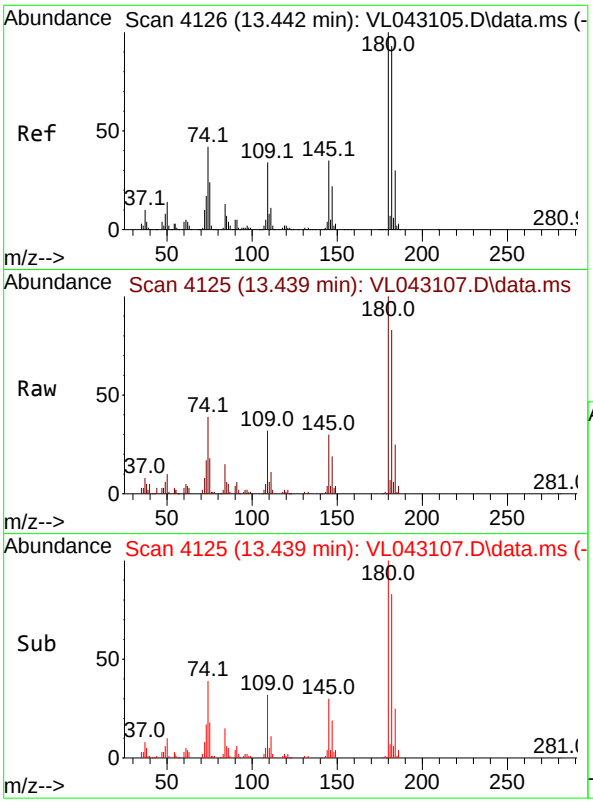


#80
Naphthalene,2-methyl-
Concen: 0.849 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Tgt Ion:142 Resp: 10851

Ion	Ratio	Lower	Upper
142	100		
141	88.9	64.6	97.0
115	38.1	30.2	45.4



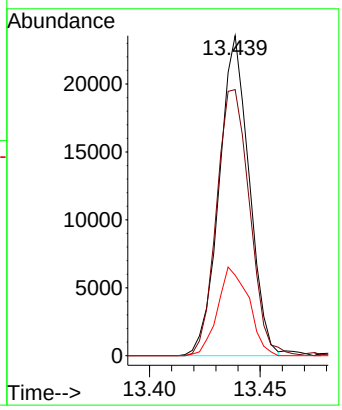


#81
1,2,4-Trichlorobenzene
Concen: 1.090 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043107.D
Acq: 14 Oct 2025 12:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 22161

Ion	Ratio	Lower	Upper
180	100		
182	92.5	75.5	113.3
184	28.8	23.9	35.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043108.D
Acq On : 14 Oct 2025 12:34
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Oct 15 01:53:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	101636	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	336188	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	303445	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	232904	9.875	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	7851	0.543	ppbv		98
3) Chlorodifluoromethane	1.479	51	8497	0.543	ppbv	#	89
4) Chloromethane	1.534	50	3254	0.568	ppbv	#	88
5) Vinyl Chloride	1.583	62	2857	0.509	ppbv		96
6) Bromomethane	1.670	94	1709	0.555	ppbv		100
7) Chloroethane	1.706	64	1326	0.578	ppbv	#	85
8) Dichlorotetrafluoroethane	1.557	85	5970	0.511	ppbv		92
9) Propene	1.486	41	3750	0.541	ppbv		92
10) Heptane	4.981	43	6039	0.304	ppbv	#	27
11) Trichlorofluoromethane	1.881	101	7672	0.543	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.143	101	6173	0.543	ppbv		100
13) Ethanol	1.725	45	1468	0.572	ppbv		86
14) Bromoethene	1.787	108	2444	0.578	ppbv	#	90
15) Acetone	1.839	43	7931	0.576	ppbv	#	88
16) 1,3-Butadiene	1.612	39	3962	0.607	ppbv		91
17) tert-Butyl alcohol	2.046	59	10213	0.543	ppbv	#	88
18) 1,1-Dichloroethene	2.039	96	2636	0.531	ppbv		91
19) Isopropyl Alcohol	1.887	45	4932	0.578	ppbv	#	43
20) Methylene Chloride	2.065	84	3750	0.693	ppbv	#	75
21) Allyl Chloride	2.098	41	5575	0.551	ppbv		98
22) trans-1,2-Dichloroethene	2.344	96	3093	0.522	ppbv		98
23) Vinyl Acetate	2.467	43	10914	0.544	ppbv	#	96
24) 1,1-Dichloroethane	2.412	63	5942	0.519	ppbv		99
25) Ethyl Acetate	2.845	43	17918	0.527	ppbv	#	96
26) Hexane	2.829	57	8908	0.569	ppbv		95
27) Carbon Disulfide	2.153	76	7230	0.504	ppbv	#	1
28) Methyl tert-Butyl Ether	2.444	73	3770	0.529	ppbv	#	47
29) Chloroform	2.852	83	12384	0.546	ppbv		100
30) Cyclohexane	3.862	84	6978	0.511	ppbv	#	88
31) cis-1,2-Dichloroethene	2.725	61	7576	0.507	ppbv	#	88
32) 1,1,1-Trichloroethane	3.373	97	12234	0.518	ppbv		97
34) 2-Butanone	2.564	43	12659	0.557	ppbv		99
35) Carbon Tetrachloride	3.768	117	11931	0.494	ppbv		87
36) Benzene	3.661	78	16376	0.517	ppbv		94
37) 1,2-Dichloroethane	3.224	62	9907	0.543	ppbv		99
38) Trichloroethene	4.554	130	6745	0.511	ppbv		95
39) 1,2-Dichloropropane	4.318	63	6032	0.521	ppbv	#	80
40) 1,4-Dioxane	4.603	88	1303	0.252	ppbv	#	33
41) Tetrahydrofuran	3.065	42	6831	0.538	ppbv		97
42) Bromodichloromethane	4.496	83	13094	0.519	ppbv		96
43) Methyl Methacrylate	4.888	69	4902	0.303	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.648	57	27304	0.516	ppbv		98
45) t-1,3-Dichloropropene	6.425	75	8030	0.498	ppbv		94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043108.D
Acq On : 14 Oct 2025 12:34
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Oct 15 01:53:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

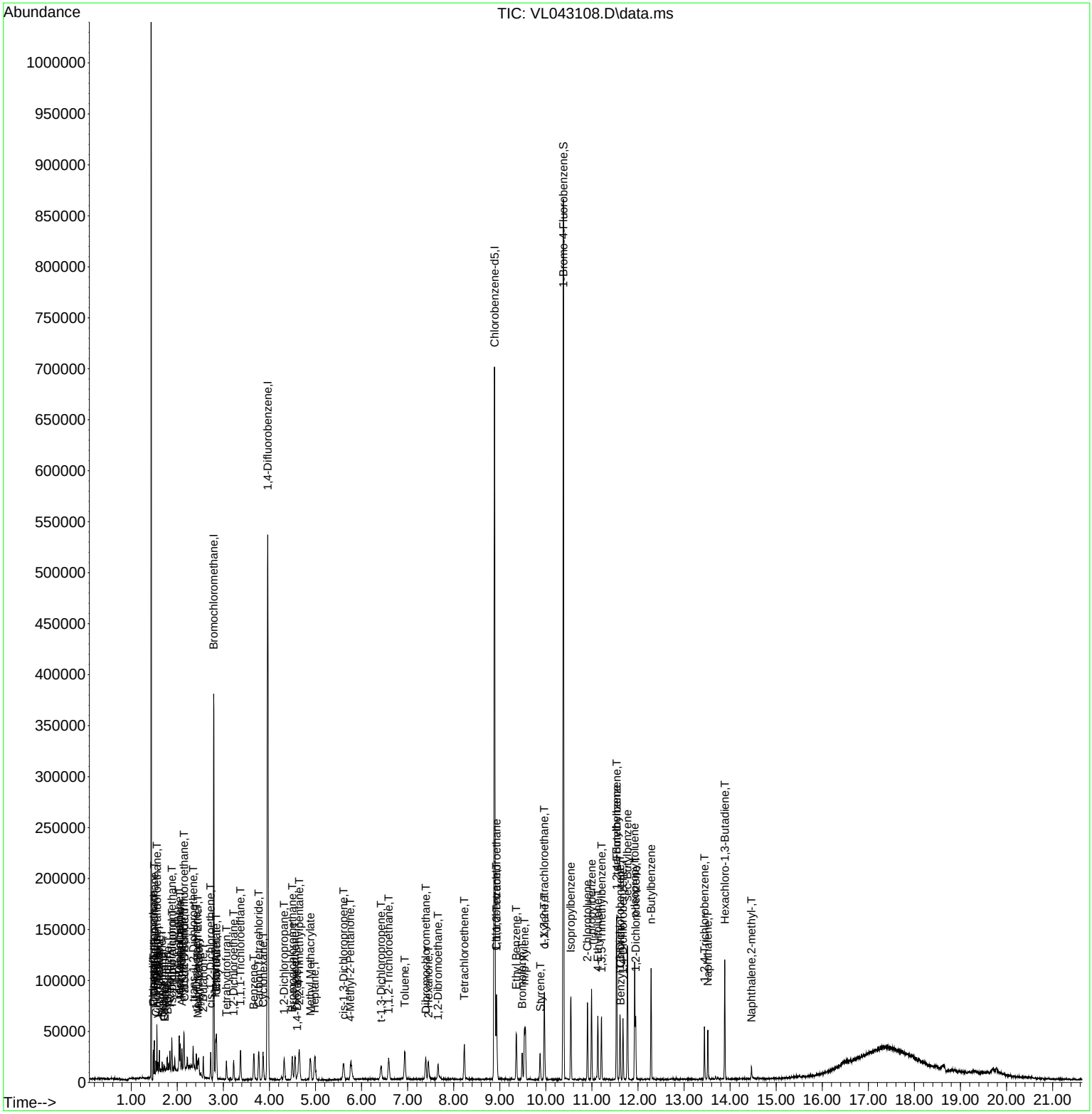
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	8375	0.435	ppbv	#	88
47) 1,1,2-Trichloroethane	6.587	97	6996	0.560	ppbv		92
48) Dibromochloromethane	7.393	129	10413	0.498	ppbv		96
49) Bromoform	9.487	173	8455	0.498	ppbv		96
50) 4-Methyl-2-Pentanone	5.755	43	3434	0.110	ppbv	#	38
51) 2-Hexanone	7.451	43	11485	0.491	ppbv	#	94
52) Tetrachloroethene	8.231	164	5863	0.513	ppbv	#	90
53) Toluene	6.936	91	20380	0.542	ppbv		99
54) 1,2-Dibromoethane	7.661	107	9586	0.486	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.930	131	10044	0.525	ppbv	#	1
57) Chlorobenzene	8.927	112	15318	0.540	ppbv		95
58) Ethyl Benzene	9.357	91	27330	0.521	ppbv		91
59) m/p-Xylene	9.539	91	20079	0.483	ppbv	#	15
60) o-Xylene	9.969	91	21745	0.530	ppbv		96
61) Styrene	9.878	104	9052	0.489	ppbv		96
62) Isopropylbenzene	10.542	105	38899	0.525	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	13653	0.497	ppbv		97
64) n-propylbenzene	10.992	120	10435	0.532	ppbv		99
65) tert-Butylbenzene	11.532	119	35537	0.543	ppbv		99
66) Benzyl Chloride	11.620	91	3477	0.476	ppbv	#	97
67) sec-Butylbenzene	11.769	105	50259	0.541	ppbv		100
69) p-Isopropyltoluene	11.927	119	41366	0.524	ppbv		99
70) n-Butylbenzene	12.283	91	39620	0.509	ppbv		98
71) 2-Chlorotoluene	10.901	91	29722	0.526	ppbv		98
72) 4-Ethyltoluene	11.128	105	26408	0.524	ppbv		98
73) 1,3,5-Trimethylbenzene	11.209	105	21754	0.523	ppbv		89
74) 1,2,4-Trimethylbenzene	11.539	105	25663	0.551	ppbv		93
75) 1,3-Dichlorobenzene	11.610	146	13697	0.507	ppbv		95
76) 1,4-Dichlorobenzene	11.675	146	14514	0.533	ppbv		99
77) 1,2-Dichlorobenzene	11.950	146	14324	0.548	ppbv		98
78) Hexachloro-1,3-Butadiene	13.885	225	11400	0.564	ppbv		98
79) Naphthalene	13.516	128	23247	0.483	ppbv	#	94
80) Naphthalene,2-methyl-	14.462	142	3874	0.305	ppbv	#	84
81) 1,2,4-Trichlorobenzene	13.442	180	8395	0.416	ppbv		98

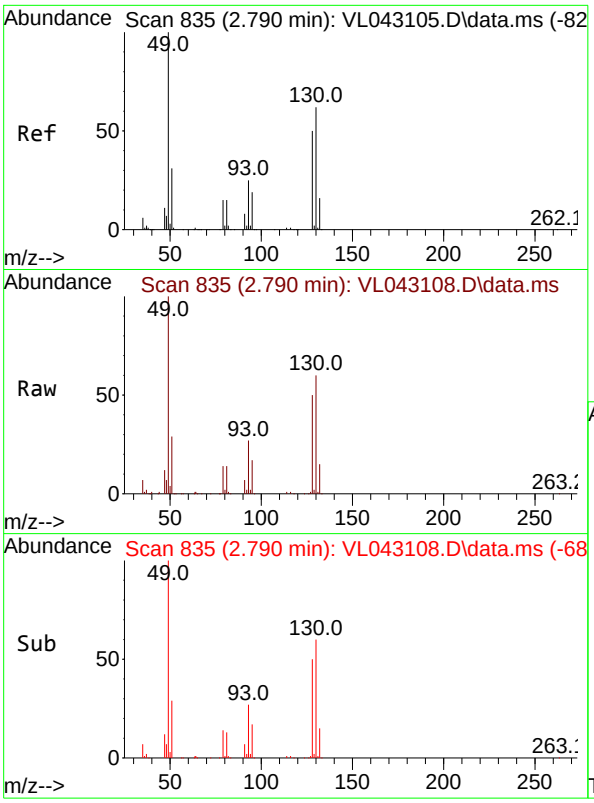
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043108.D
Acq On : 14 Oct 2025 12:34
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Oct 15 01:53:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration



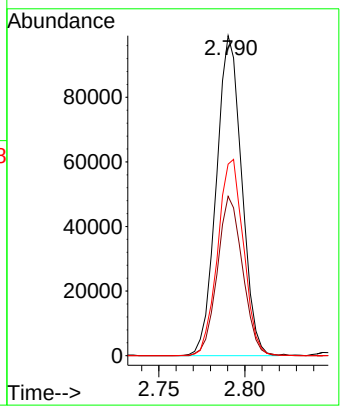


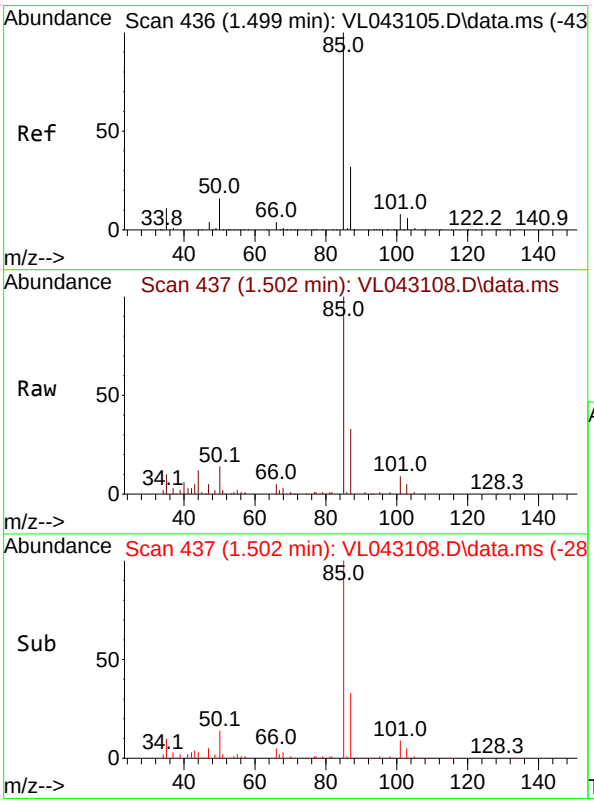
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 49 Resp: 101636

Ion	Ratio	Lower	Upper
49	100		
128	49.5	24.4	73.4
130	62.5	31.0	93.0

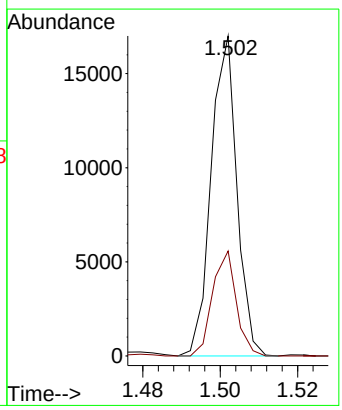


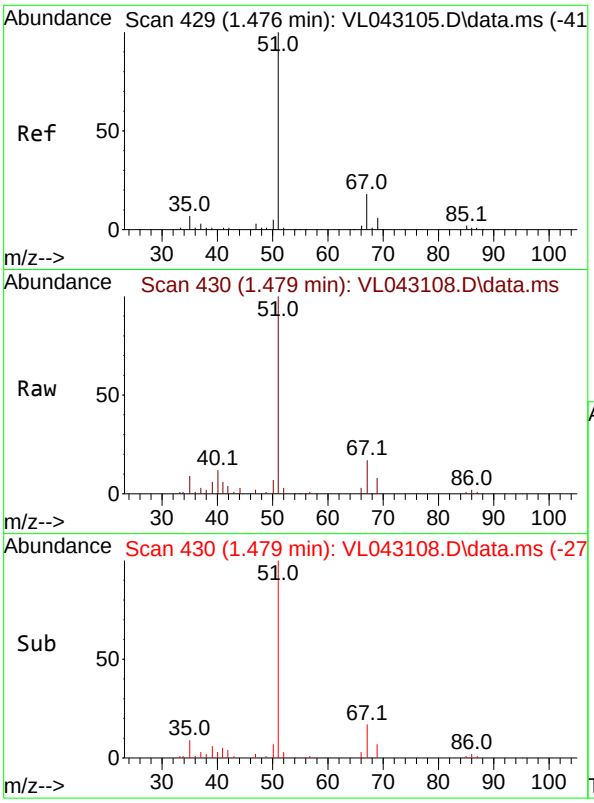


#2
Dichlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 7851

Ion	Ratio	Lower	Upper
85	100		
87	32.8	25.3	37.9



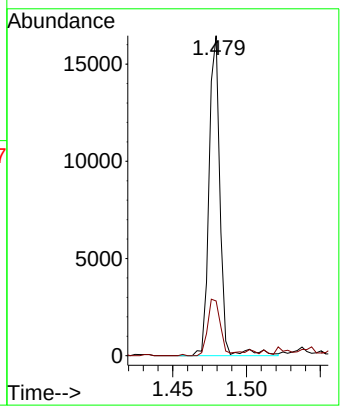


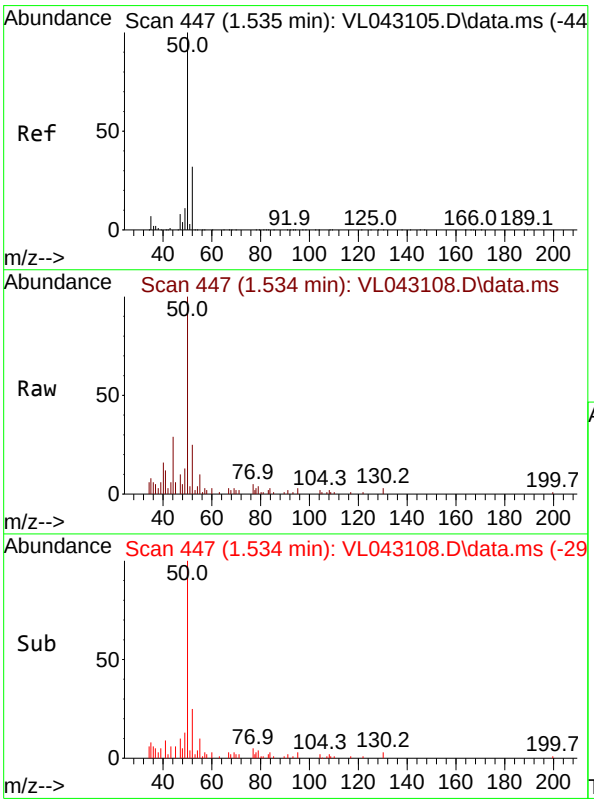
#3
Chlorodifluoromethane
Concen: 0.543 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 8497

Ion	Ratio	Lower	Upper
51	100		
67	23.8	15.1	22.7#

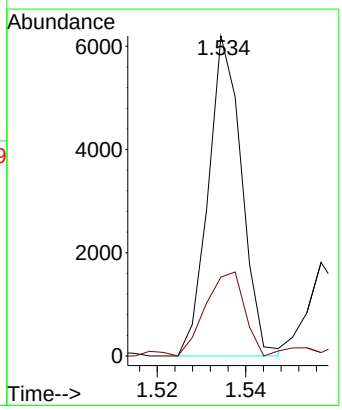


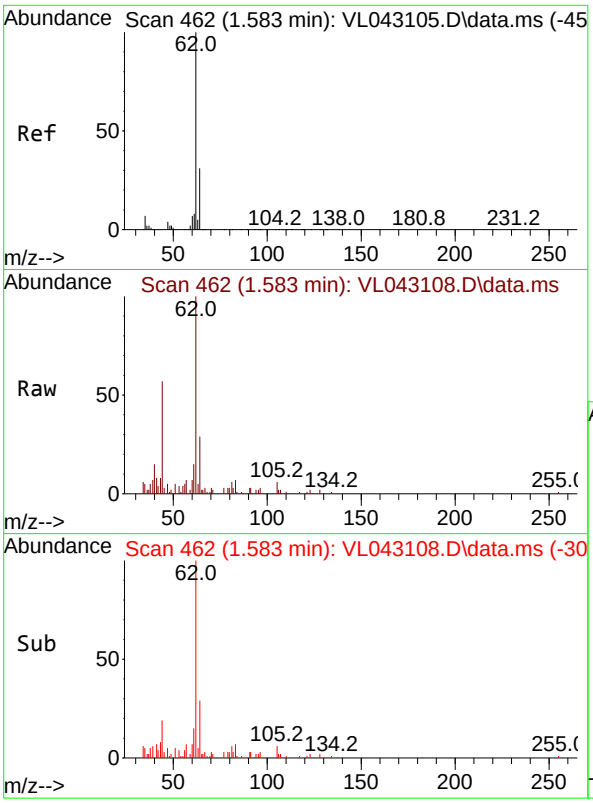


#4
Chloromethane
Concen: 0.568 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 50 Resp: 3254

Ion	Ratio	Lower	Upper
50	100		
52	24.7	25.2	37.8#



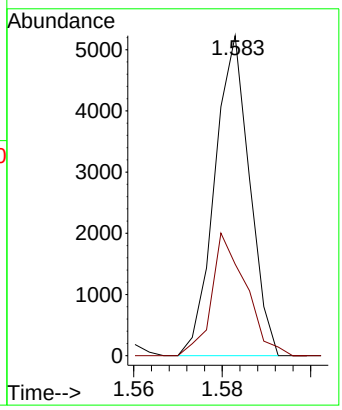


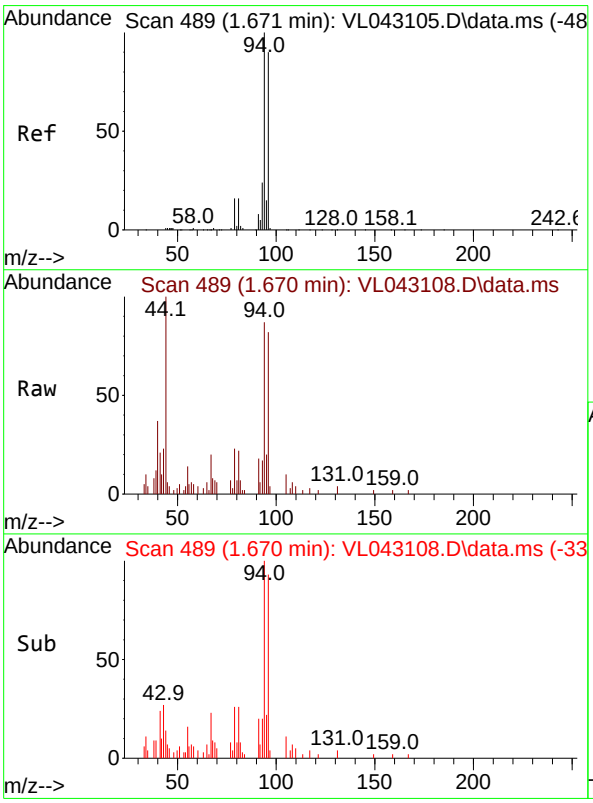
#5
Vinyl Chloride
Concen: 0.509 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 2857

Ion	Ratio	Lower	Upper
62	100		
64	28.6	24.6	36.8

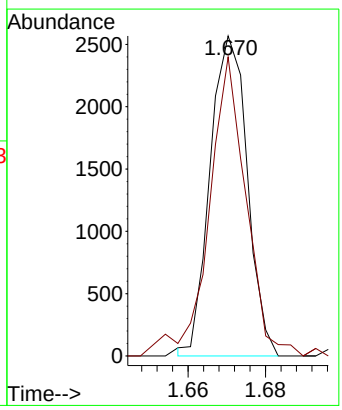


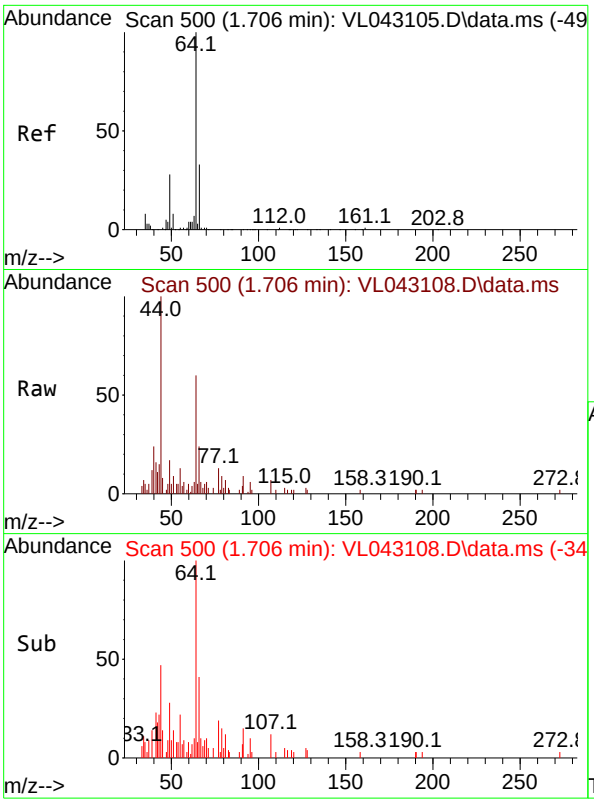


#6
Bromomethane
Concen: 0.555 ppbv
RT: 1.670 min Scan# 489
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 94 Resp: 1709

Ion	Ratio	Lower	Upper
94	100		
96	89.9	72.2	108.4



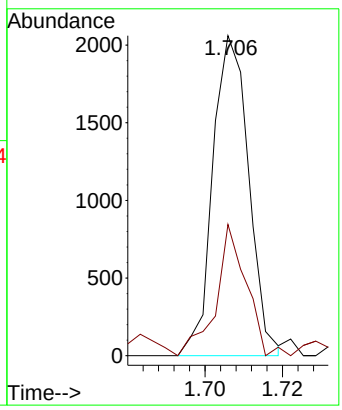


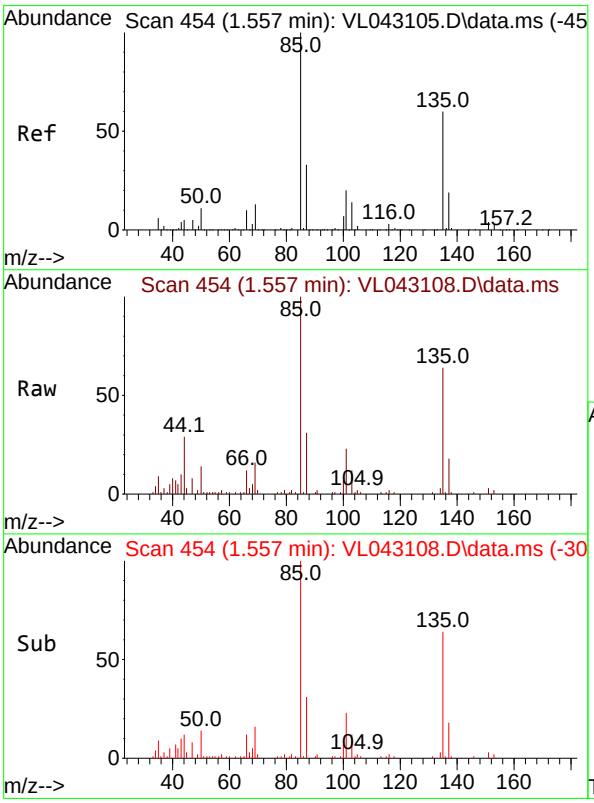
#7
Chloroethane
Concen: 0.578 ppbv
RT: 1.706 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 64 Resp: 1326

Ion	Ratio	Lower	Upper
64	100		
66	41.0	26.0	39.0#

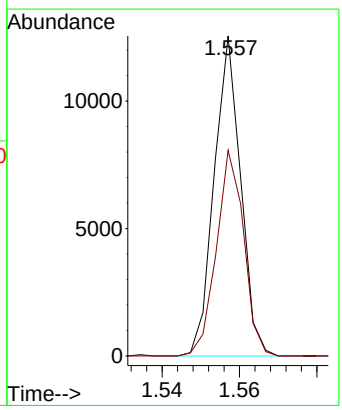


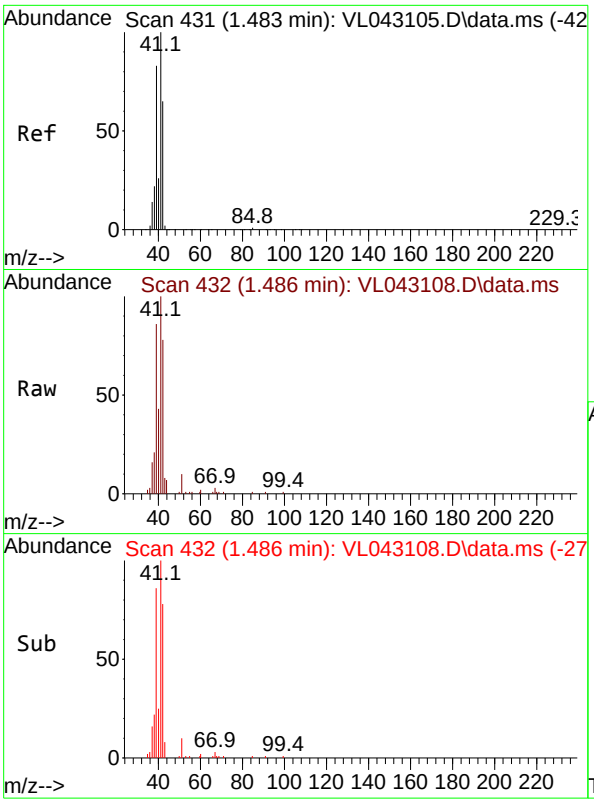


#8
Dichlorotetrafluoroethane
Concen: 0.511 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 5970

Ion	Ratio	Lower	Upper
85	100		
135	66.3	48.2	72.4



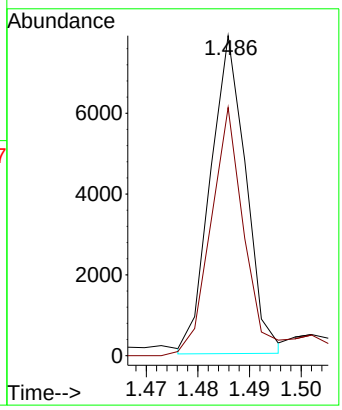


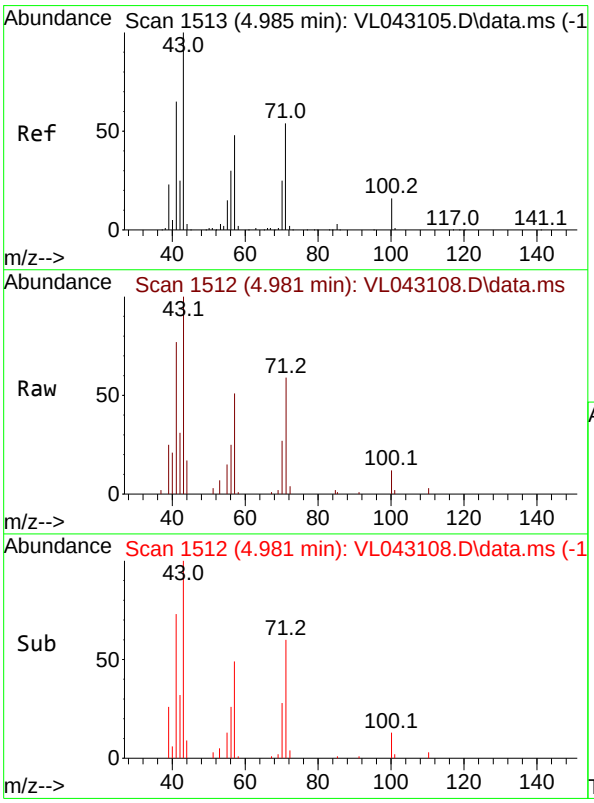
#9
Propene
Concen: 0.541 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 3750

Ion	Ratio	Lower	Upper
41	100		
42	75.0	55.1	82.7

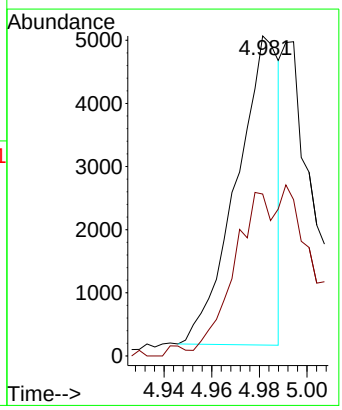


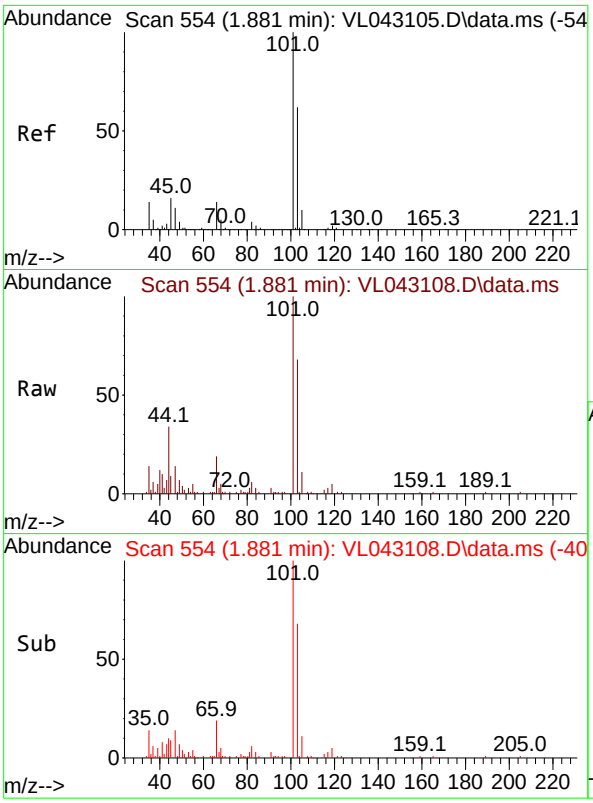


#10
Heptane
Concen: 0.304 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 6039

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.8	61.2#



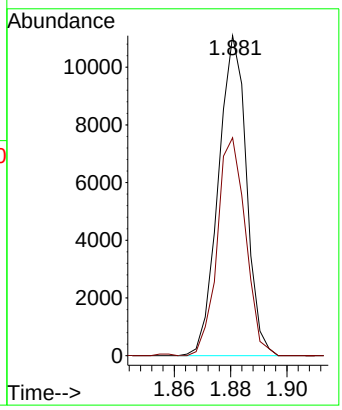


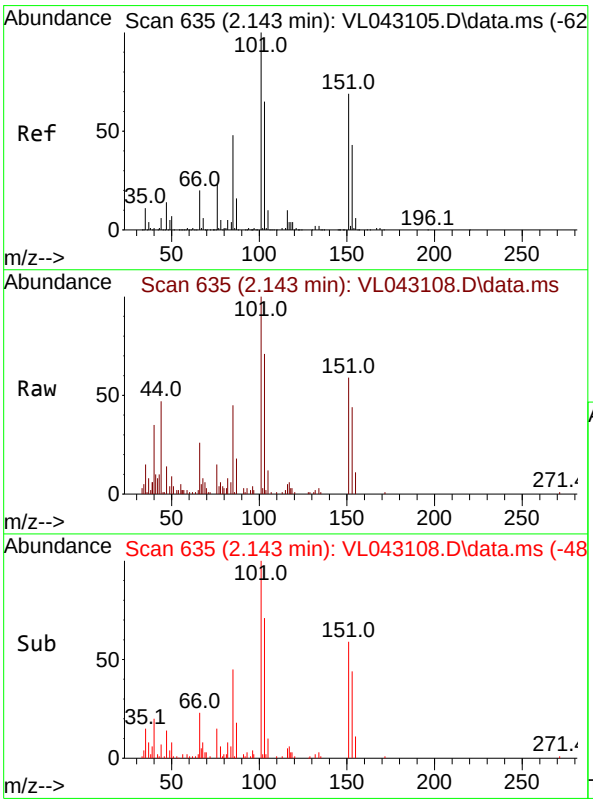
#11
Trichlorofluoromethane
Concen: 0.543 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:101 Resp: 7672

Ion	Ratio	Lower	Upper
101	100		
103	68.1	49.3	73.9

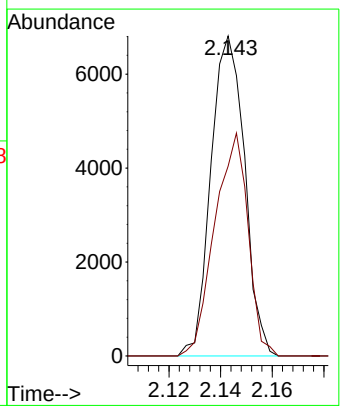


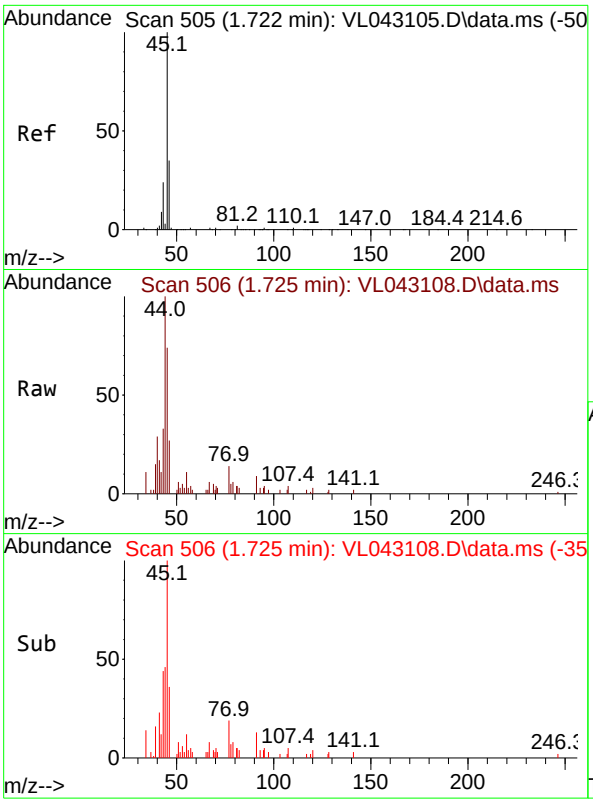


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.543 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:101 Resp: 6173

Ion	Ratio	Lower	Upper
101	100		
151	68.8	54.7	82.1



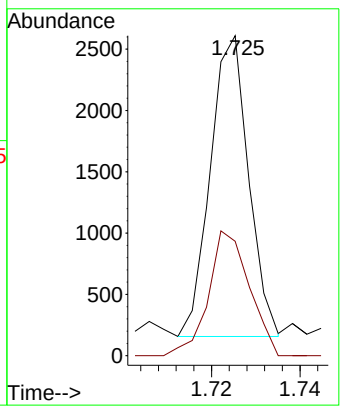


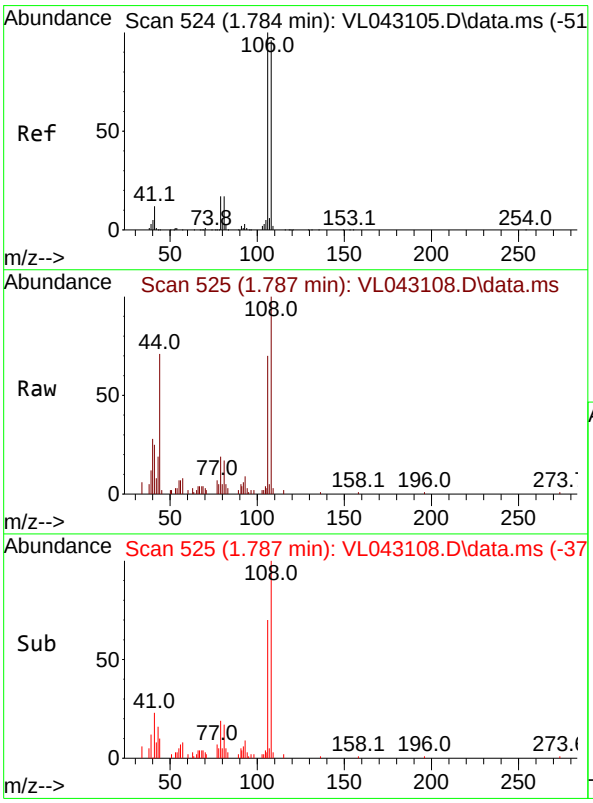
#13
Ethanol
Concen: 0.572 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 1468

Ion	Ratio	Lower	Upper
45	100		
46	45.1	14.7	58.9

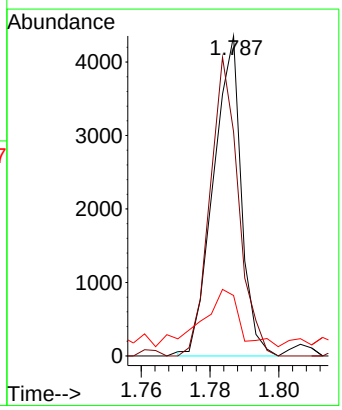


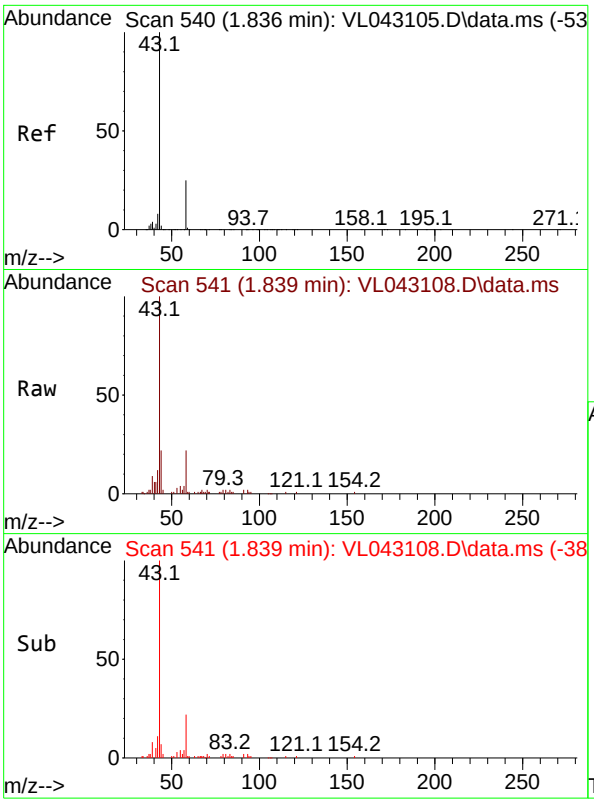


#14
Bromoethene
Concen: 0.578 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:108 Resp: 2444

Ion	Ratio	Lower	Upper
108	100		
106	98.2	84.4	126.6
79	31.2	15.3	22.9#



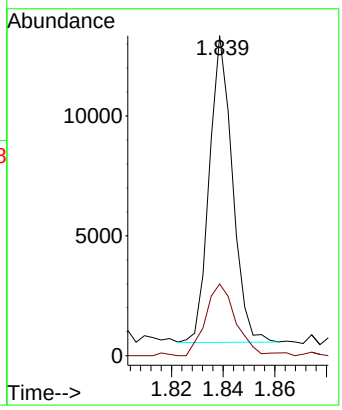


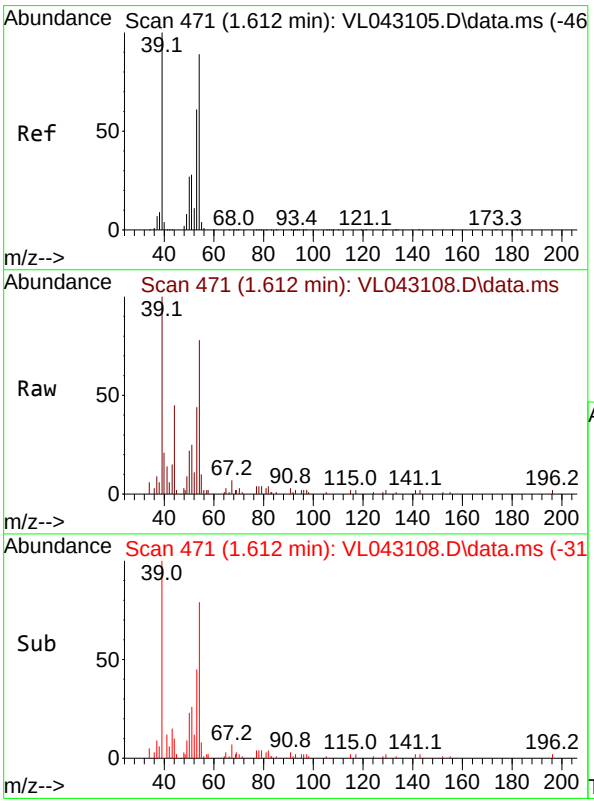
#15
Acetone
Concen: 0.576 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 7931

Ion	Ratio	Lower	Upper
43	100		
58	32.0	20.8	31.2#

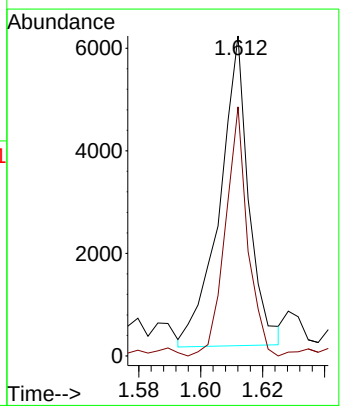


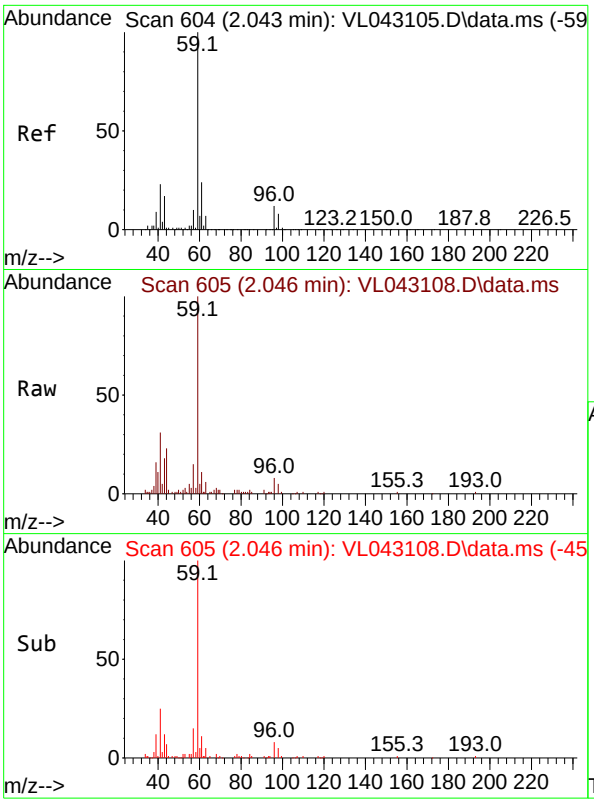


#16
1,3-Butadiene
Concen: 0.607 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 39 Resp: 3962

Ion	Ratio	Lower	Upper
39	100		
54	66.1	59.0	88.4



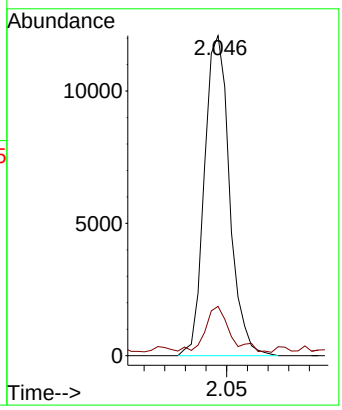


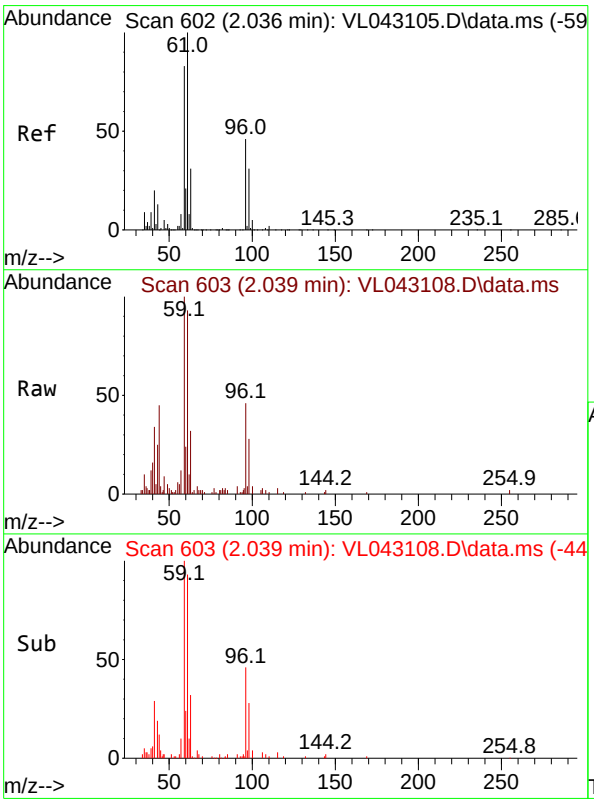
#17
tert-Butyl alcohol
Concen: 0.543 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 59 Resp: 10213

Ion	Ratio	Lower	Upper
59	100		
57	14.8	8.2	12.4#

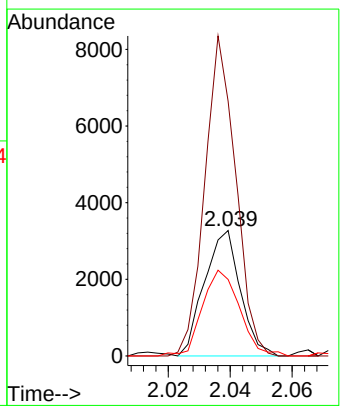


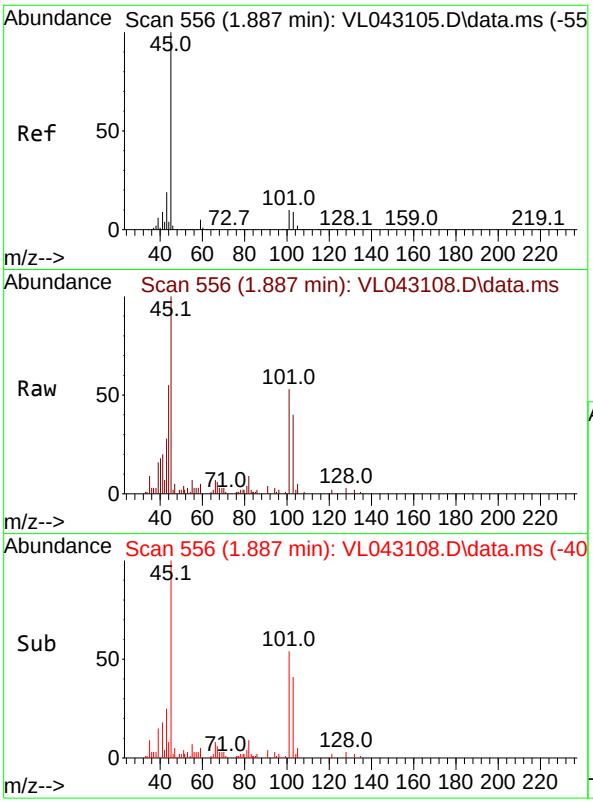


#18
1,1-Dichloroethene
Concen: 0.531 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 96 Resp: 2636

Ion	Ratio	Lower	Upper
96	100		
61	203.1	173.4	260.0
98	59.2	53.2	79.8



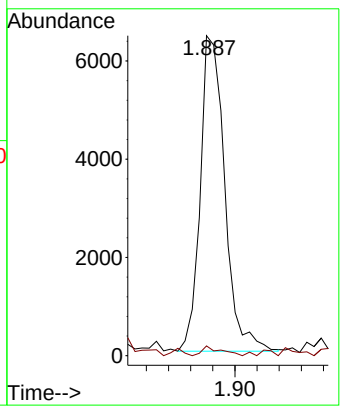


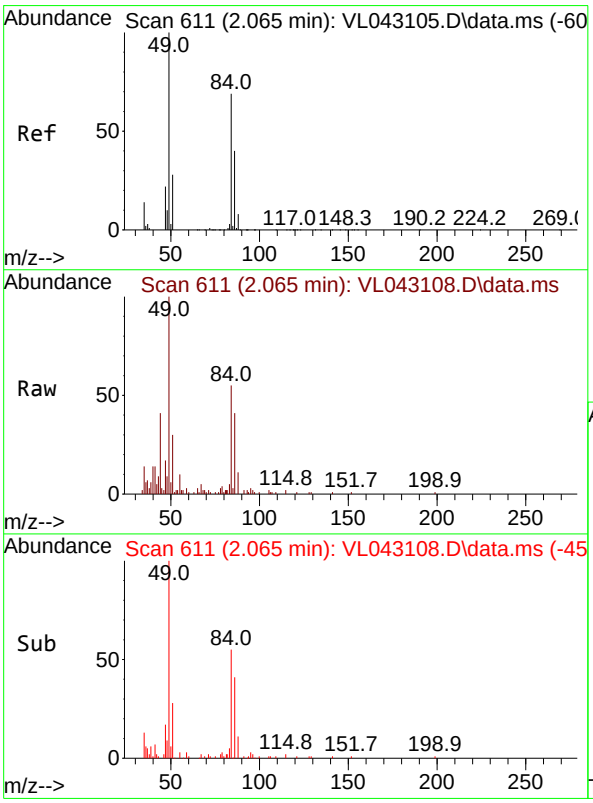
#19
Isopropyl Alcohol
Concen: 0.578 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 4932

Ion	Ratio	Lower	Upper
45	100		
58	4.1	31.3	46.9#

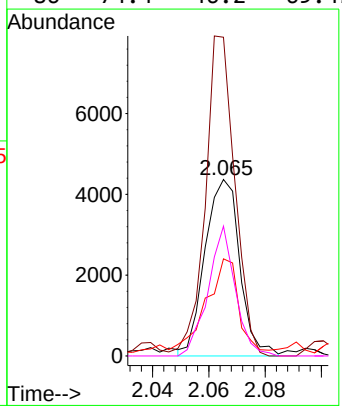


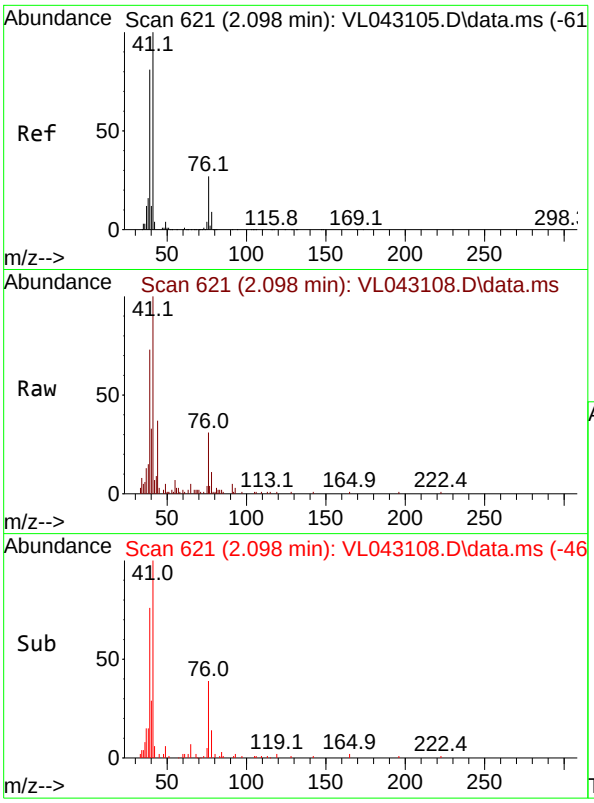


#20
Methylene Chloride
Concen: 0.693 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 84 Resp: 3750

Ion	Ratio	Lower	Upper
84	100		
49	182.8	116.6	175.0#
51	51.9	34.8	52.2
86	74.4	46.2	69.4#



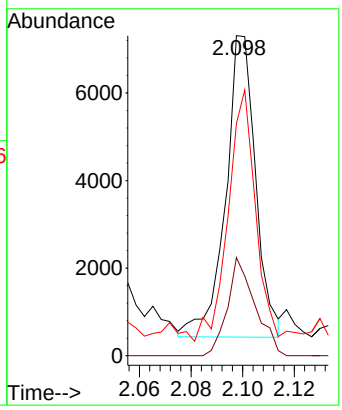


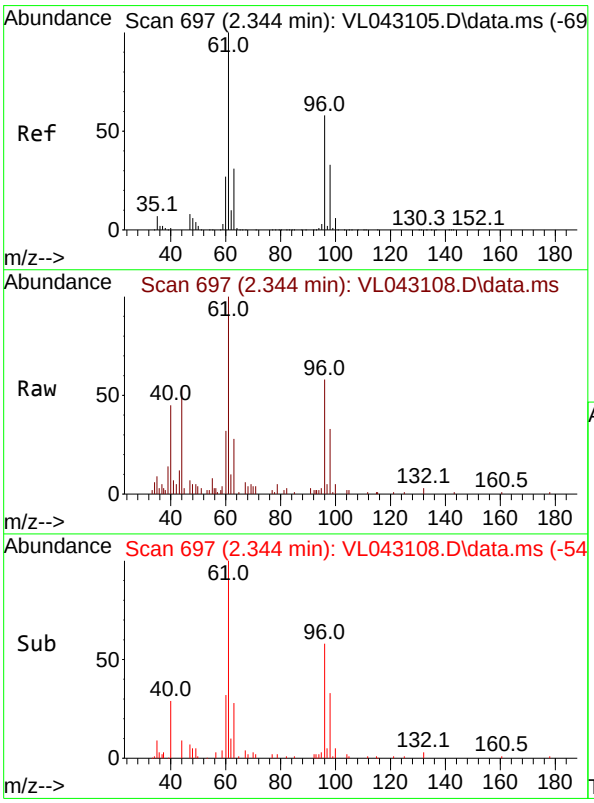
#21
Allyl Chloride
Concen: 0.551 ppbv
RT: 2.098 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 5575

Ion	Ratio	Lower	Upper
41	100		
76	30.0	21.5	32.3
39	75.1	60.8	91.2

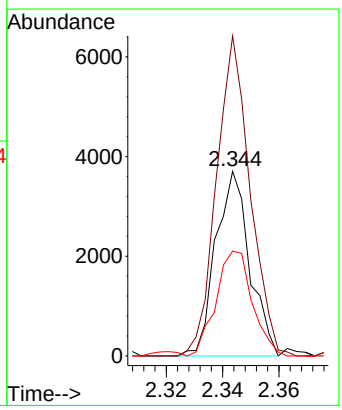


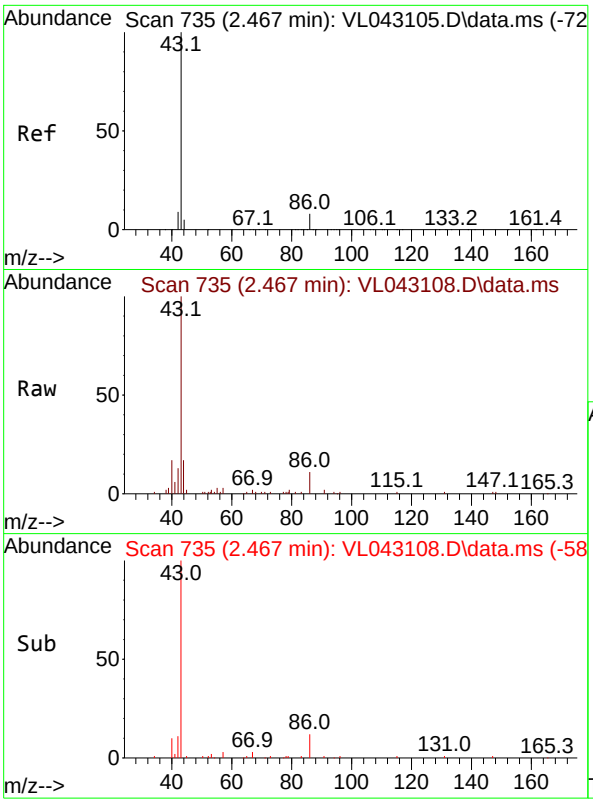


#22
trans-1,2-Dichloroethene
Concen: 0.522 ppbv
RT: 2.344 min Scan# 697
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 96 Resp: 3093

Ion	Ratio	Lower	Upper
96	100		
61	173.3	137.0	205.6
98	55.0	45.5	68.3



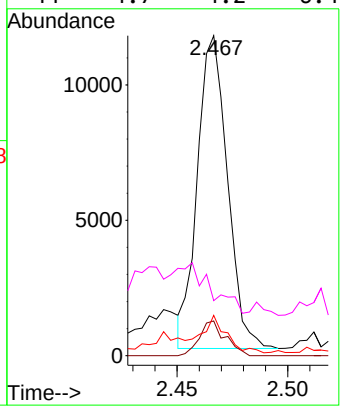


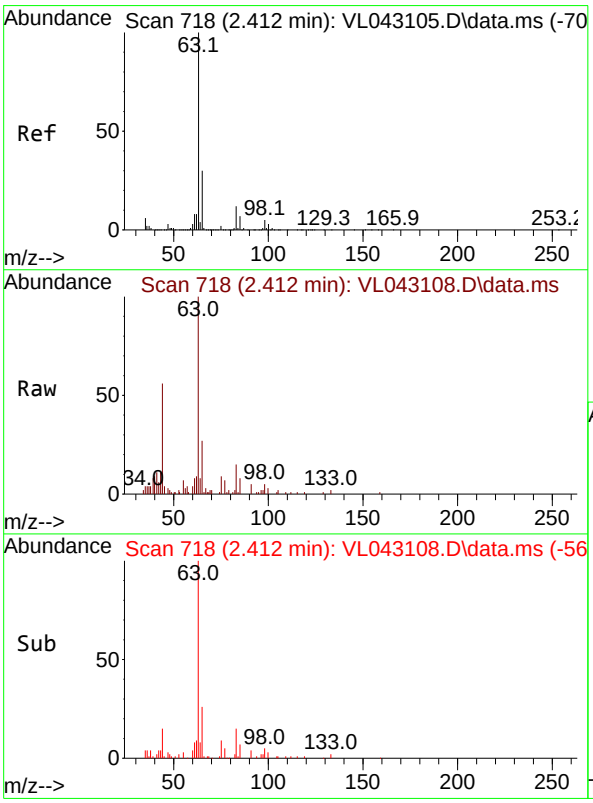
#23
Vinyl Acetate
Concen: 0.544 ppbv
RT: 2.467 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 10914

Ion	Ratio	Lower	Upper
43	100		
86	11.1	6.2	9.2#
42	9.0	7.6	11.4
44	4.7	4.2	6.4

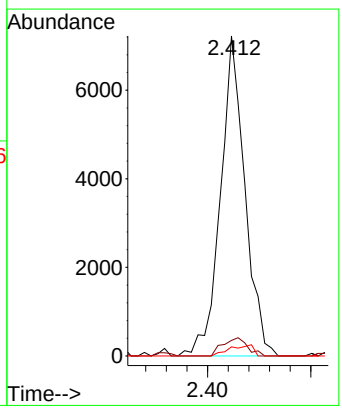


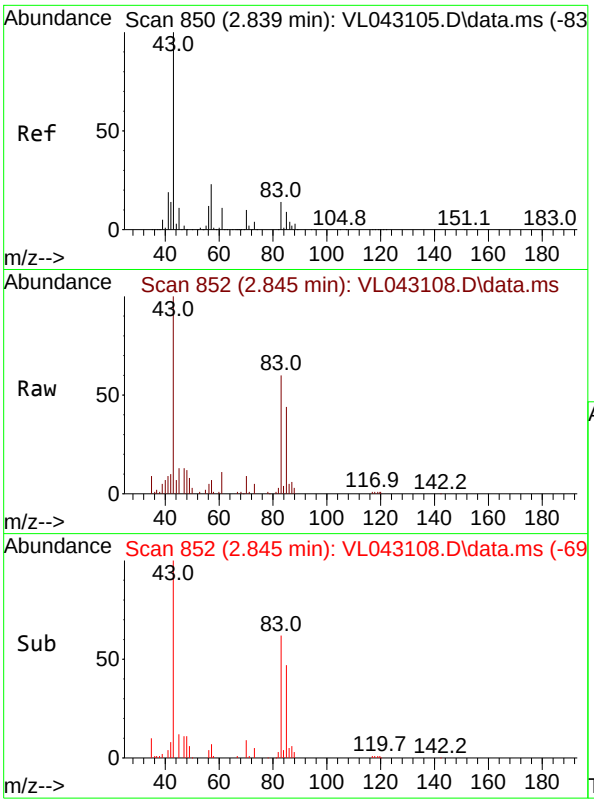


#24
1,1-Dichloroethane
Concen: 0.519 ppbv
RT: 2.412 min Scan# 718
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 63 Resp: 5942

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.6	7.8
100	2.8	1.5	4.4



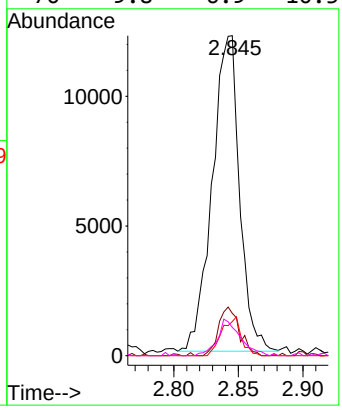


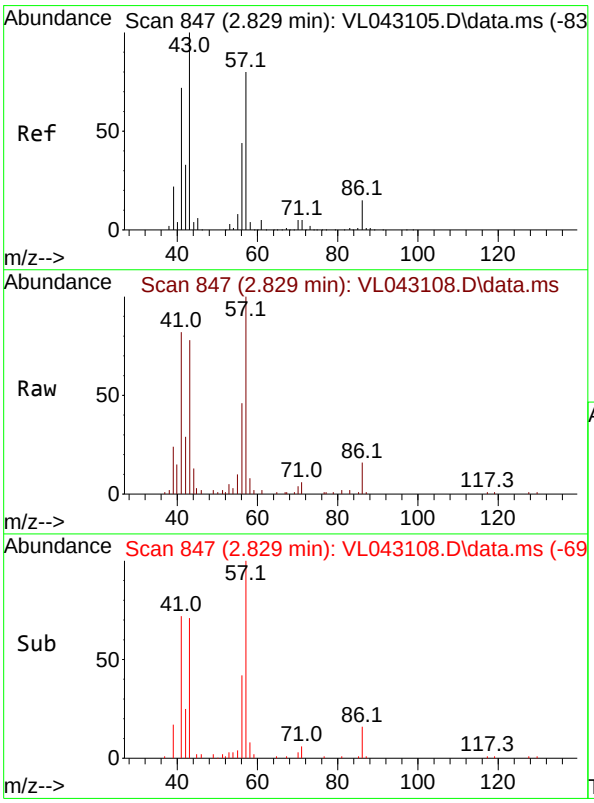
#25
Ethyl Acetate
Concen: 0.527 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 17918

Ion	Ratio	Lower	Upper
43	100		
45	12.3	7.8	11.8#
61	8.8	7.0	10.6
70	9.8	6.9	10.3

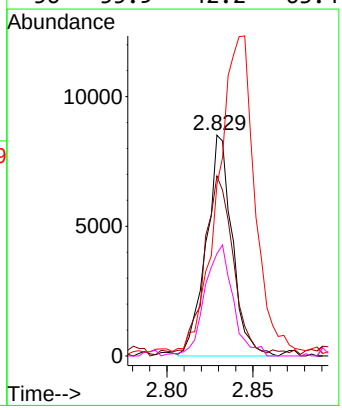


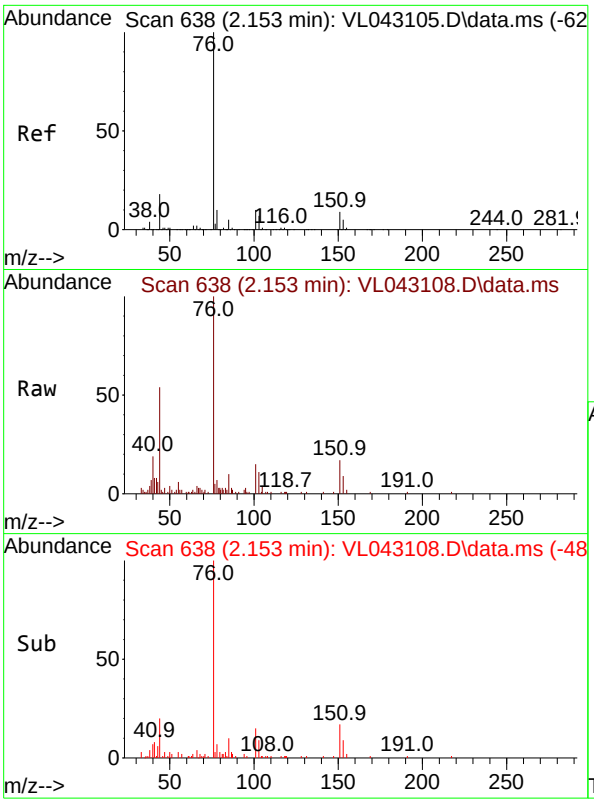


#26
Hexane
Concen: 0.569 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 57 Resp: 8908

Ion	Ratio	Lower	Upper
57	100		
41	90.3	71.4	107.0
43	211.8	178.5	267.7
56	55.9	42.2	63.4



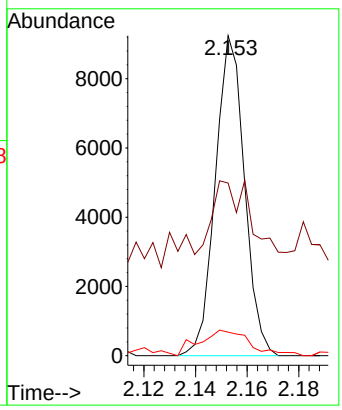


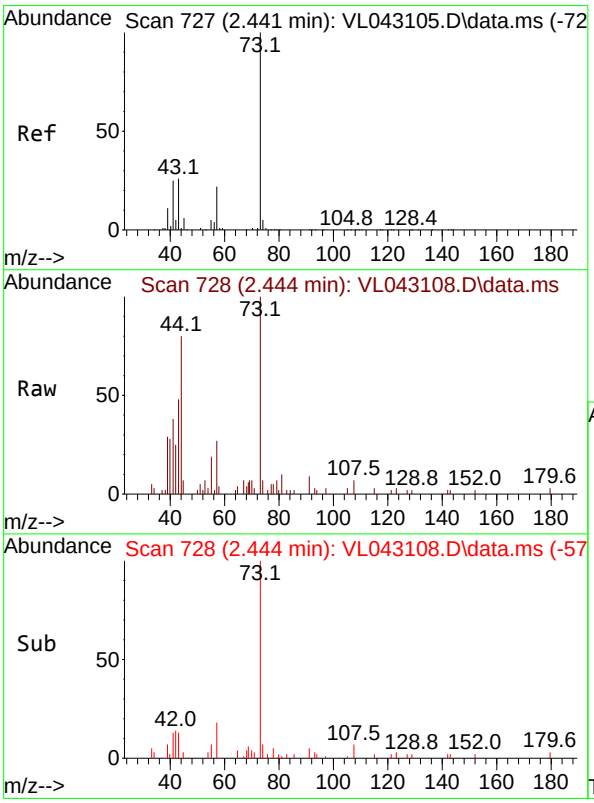
#27
Carbon Disulfide
Concen: 0.504 ppbv
RT: 2.153 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 76 Resp: 7230

Ion	Ratio	Lower	Upper
76	100		
44	120.9	16.7	25.1#
78	13.9	9.3	13.9

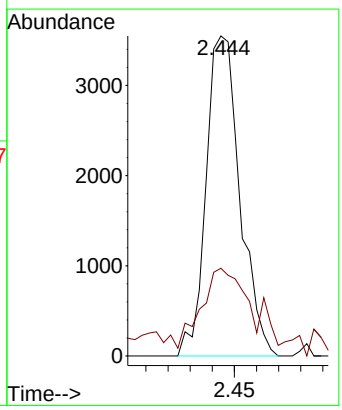


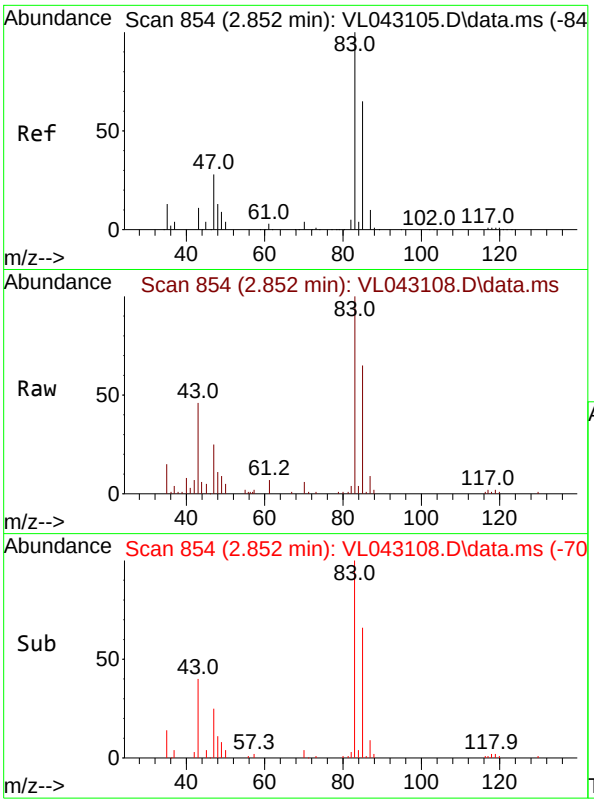


#28
Methyl tert-Butyl Ether
Concen: 0.529 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 73 Resp: 3770

Ion	Ratio	Lower	Upper
73	100		
57	52.7	20.5	30.7#



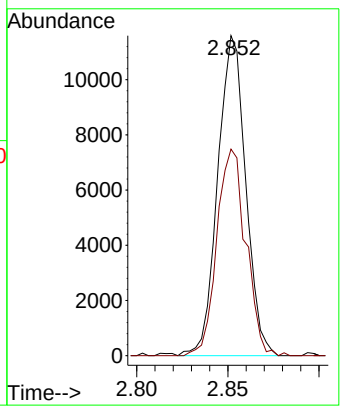


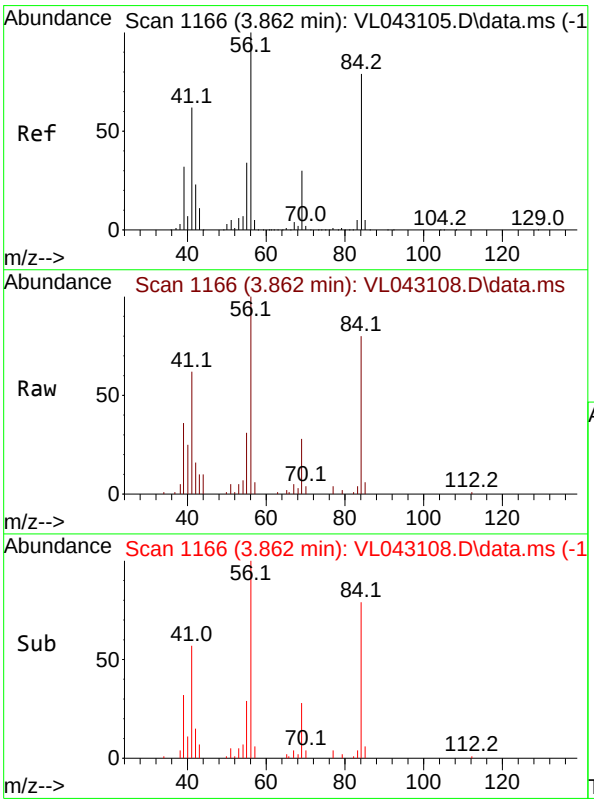
#29
Chloroform
Concen: 0.546 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 12384

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.8	77.6

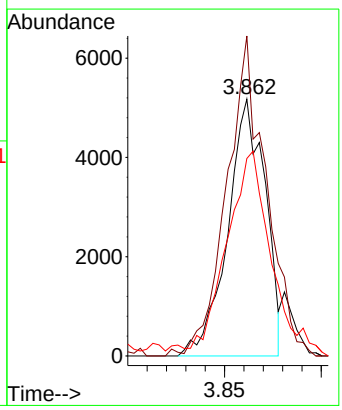


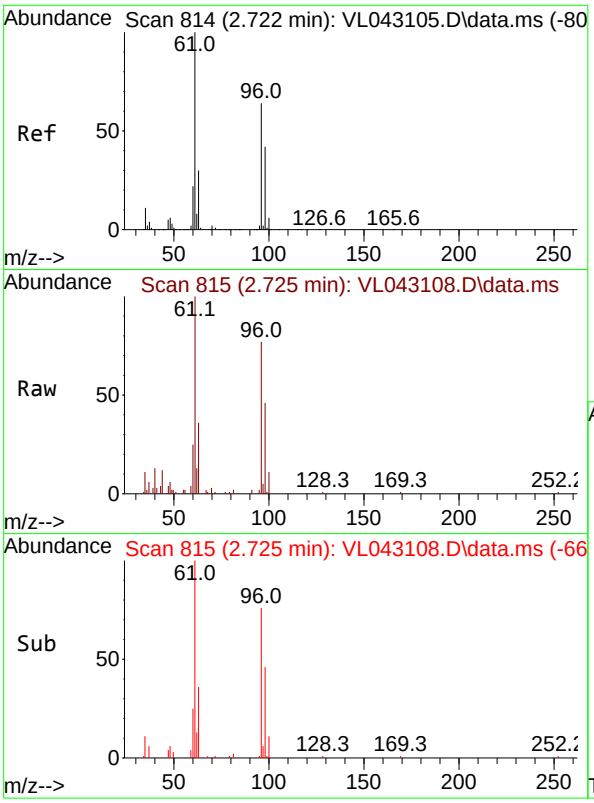


#30
Cyclohexane
Concen: 0.511 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 84 Resp: 6978

Ion	Ratio	Lower	Upper
84	100		
56	131.8	100.9	151.3
41	99.7	63.8	95.6#



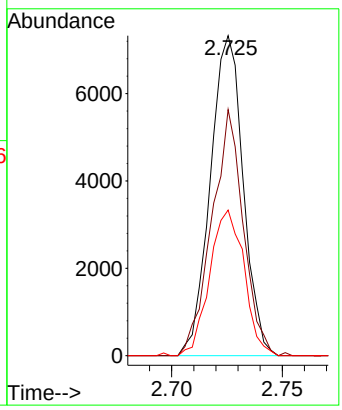


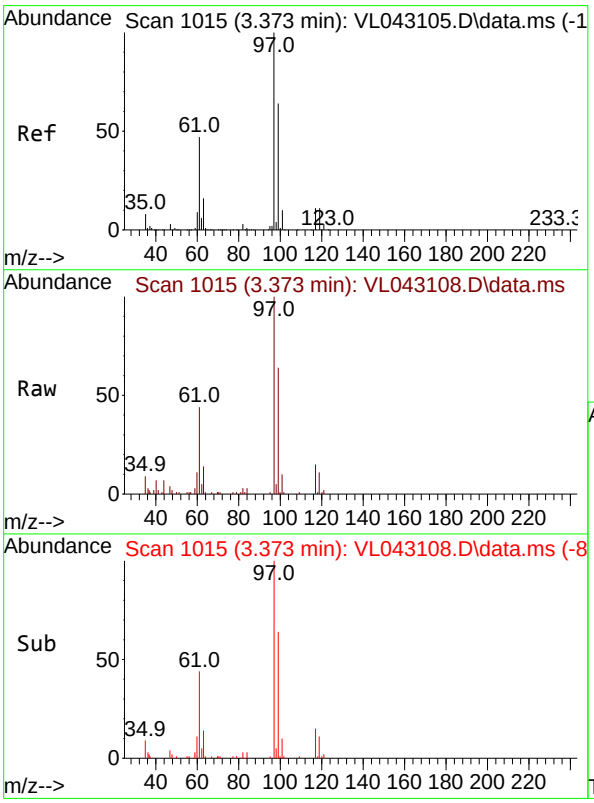
#31
cis-1,2-Dichloroethene
Concen: 0.507 ppbv
RT: 2.725 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 61 Resp: 7576

Ion	Ratio	Lower	Upper
61	100		
96	76.9	51.0	76.6#
98	45.5	33.5	50.3

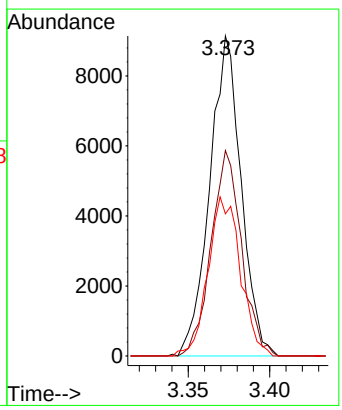


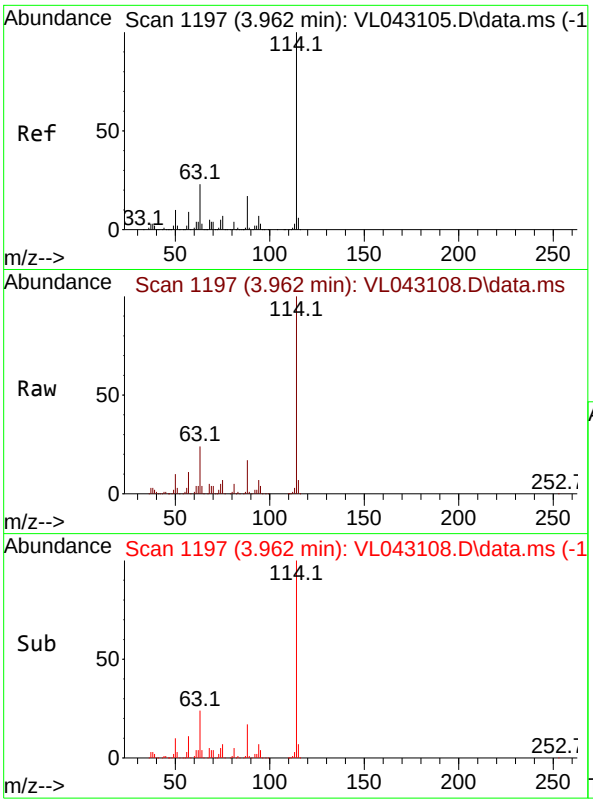


#32
1,1,1-Trichloroethane
Concen: 0.518 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 97 Resp: 12234

Ion	Ratio	Lower	Upper
97	100		
99	62.0	51.3	76.9
61	51.2	38.4	57.6



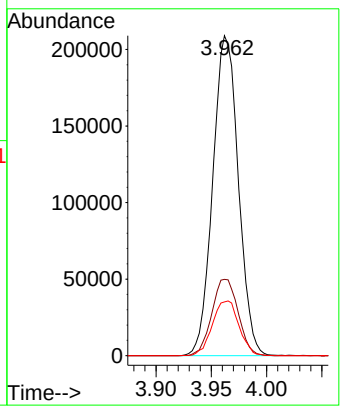


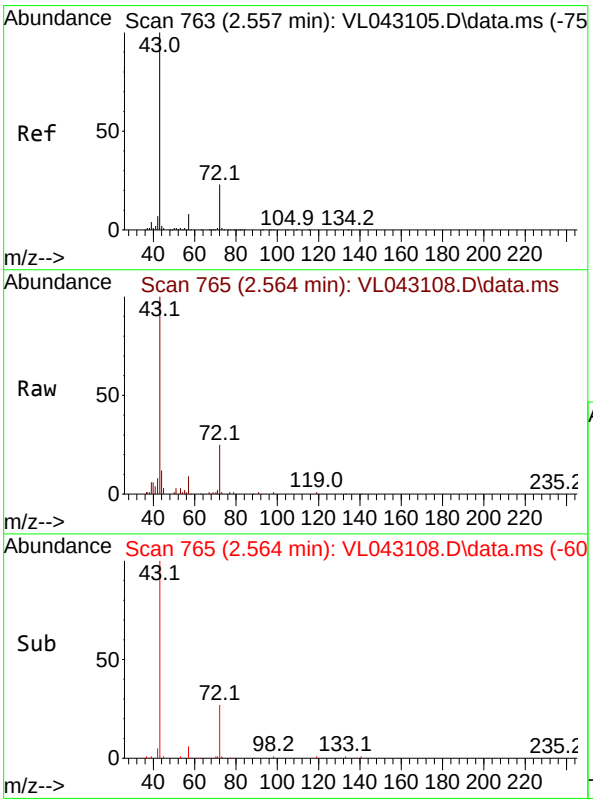
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:114 Resp: 336188

Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.3	28.9
88	17.9	13.9	20.9

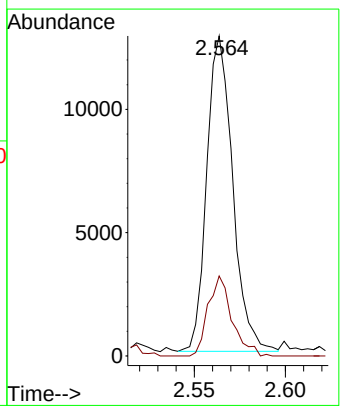


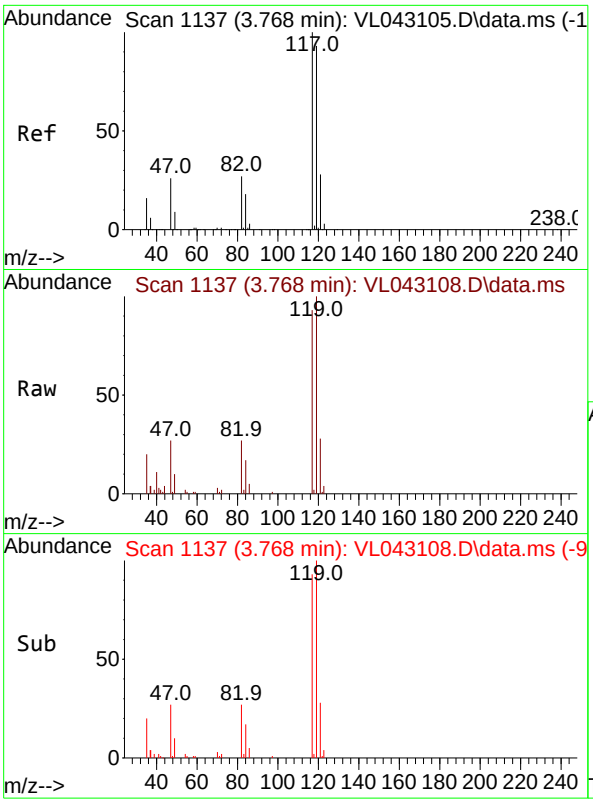


#34
2-Butanone
Concen: 0.557 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 12659

Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.4	27.6



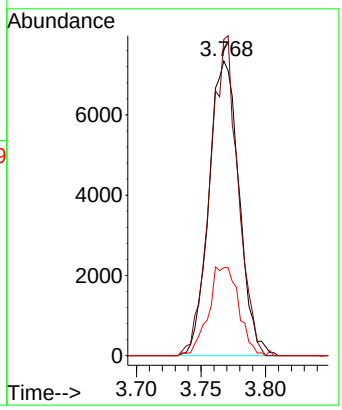


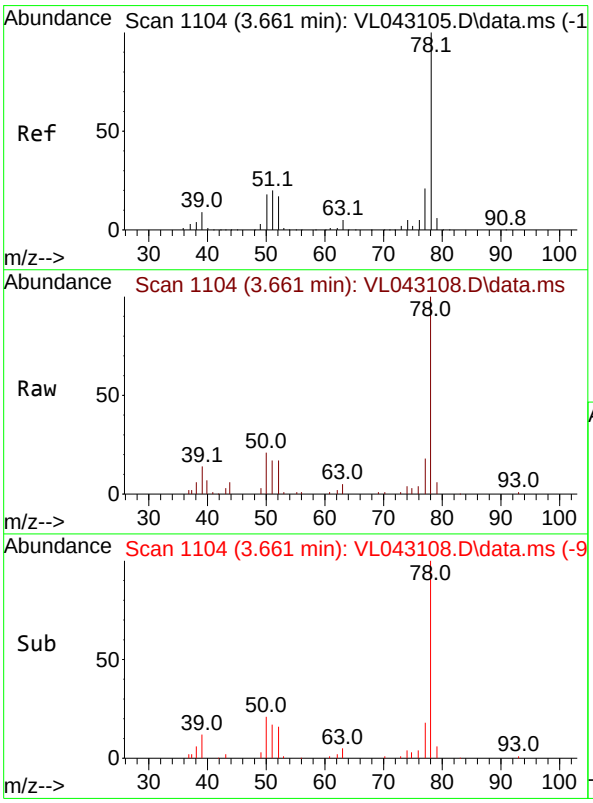
#35
Carbon Tetrachloride
Concen: 0.494 ppbv
RT: 3.768 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:117 Resp: 11931

Ion	Ratio	Lower	Upper
117	100		
119	107.3	74.1	111.1
121	29.9	22.2	33.2

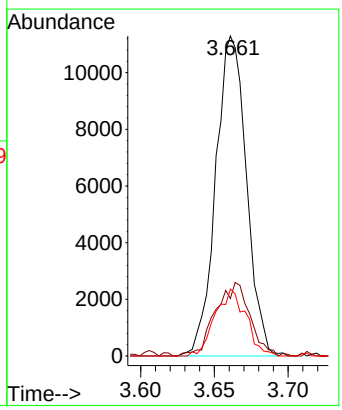


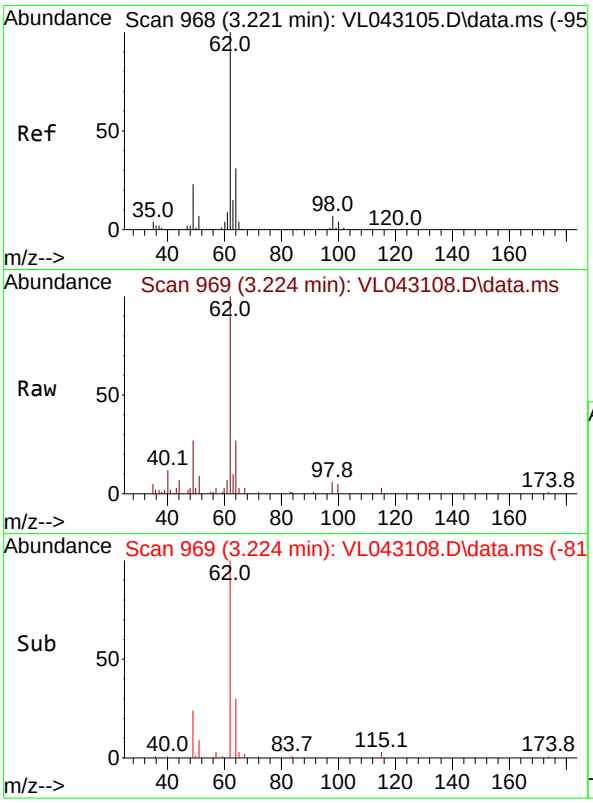


#36
Benzene
Concen: 0.517 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 78 Resp: 16376

Ion	Ratio	Lower	Upper
78	100		
77	18.0	17.0	25.6
50	20.9	14.6	22.0



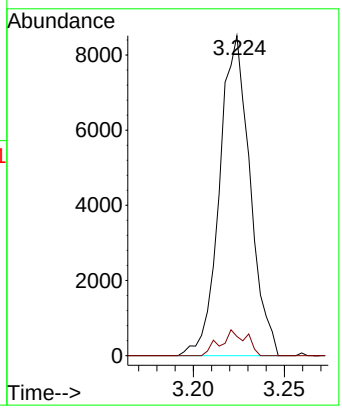


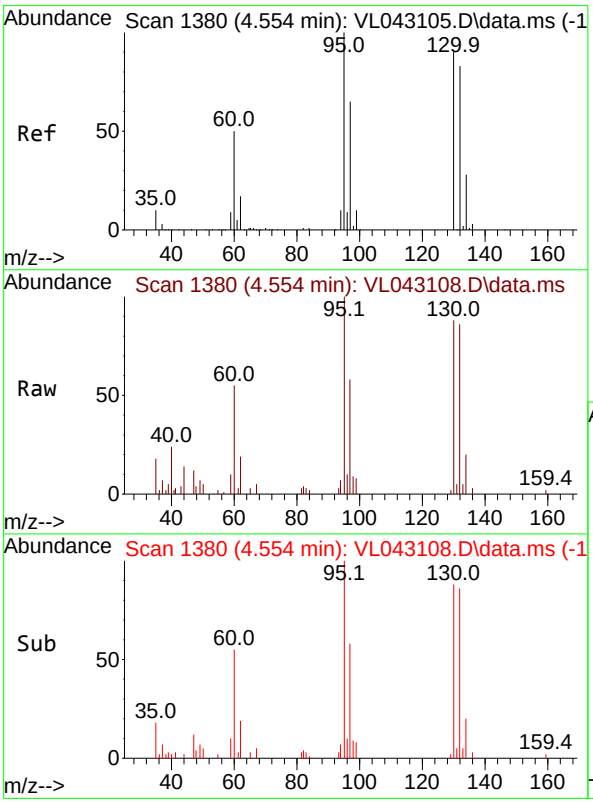
#37
1,2-Dichloroethane
Concen: 0.543 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 9907

Ion	Ratio	Lower	Upper
62	100		
98	6.8	5.8	8.6

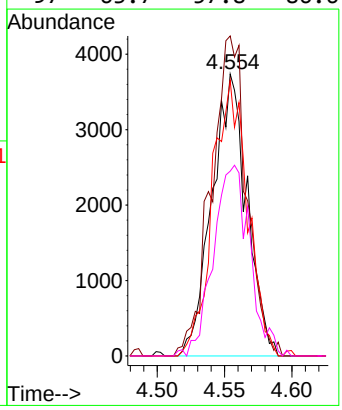


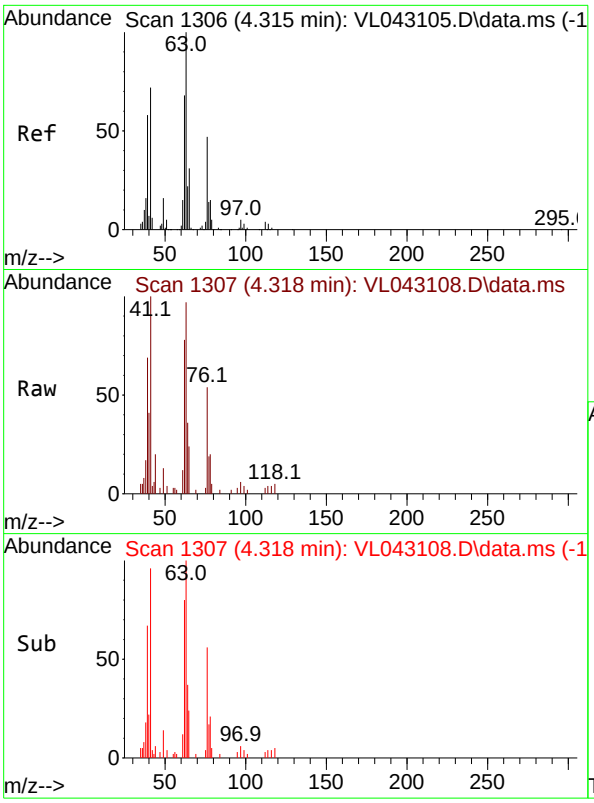


#38
Trichloroethene
Concen: 0.511 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:130 Resp: 6745

Ion	Ratio	Lower	Upper
130	100		
95	110.7	88.6	133.0
132	97.8	73.4	110.0
97	63.7	57.8	86.6



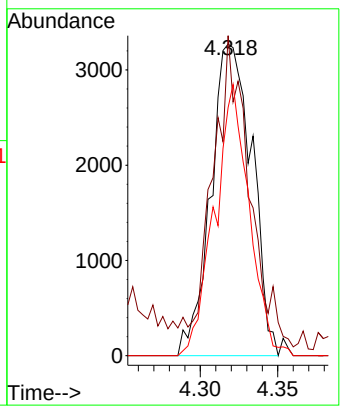


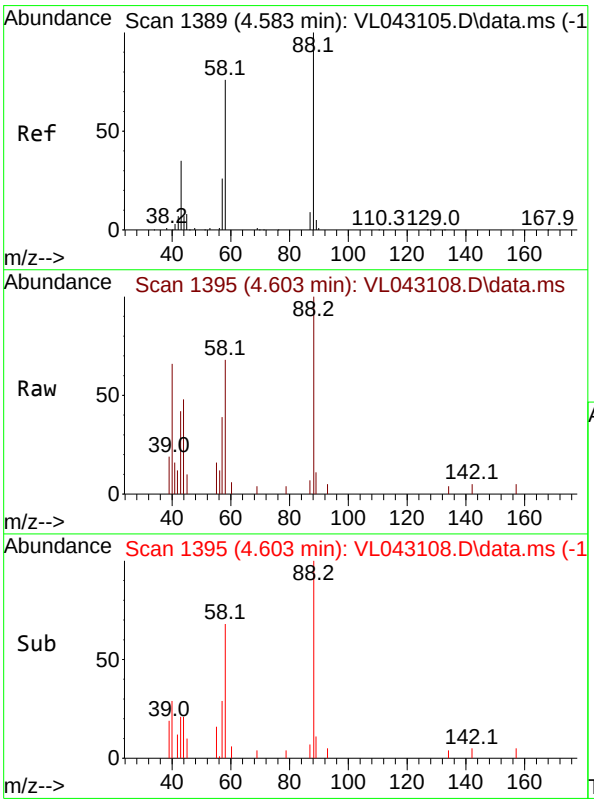
#39
1,2-Dichloropropane
Concen: 0.521 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 63 Resp: 6032

Ion	Ratio	Lower	Upper
63	100		
41	93.9	58.0	87.0#
62	79.6	54.7	82.1

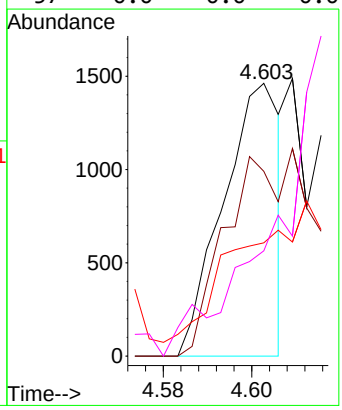


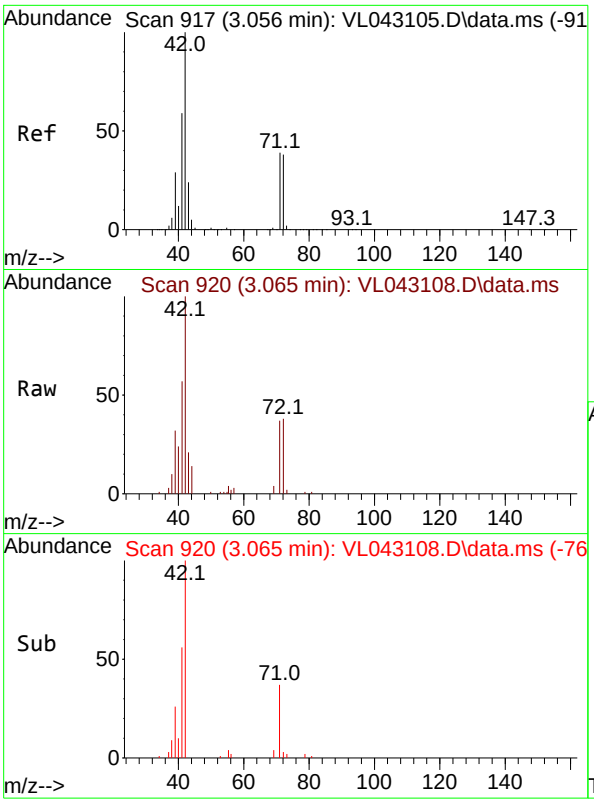


#40
1,4-Dioxane
Concen: 0.252 ppbv
RT: 4.603 min Scan# 1395
Delta R.T. 0.019 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 88 Resp: 1303

Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	24.5	24.0	36.0
57	0.0	0.0	0.0



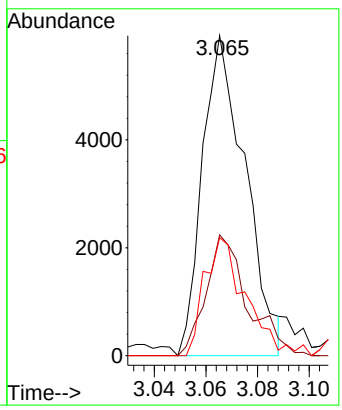


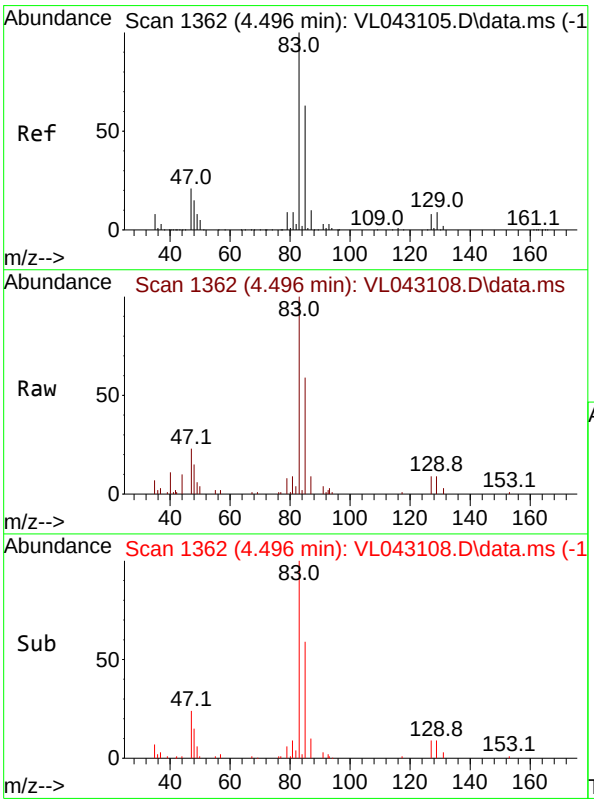
#41
Tetrahydrofuran
Concen: 0.538 ppbv
RT: 3.065 min Scan# 9
Delta R.T. 0.009 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 42 Resp: 6831

Ion	Ratio	Lower	Upper
42	100		
72	36.6	31.3	46.9
71	37.2	30.4	45.6

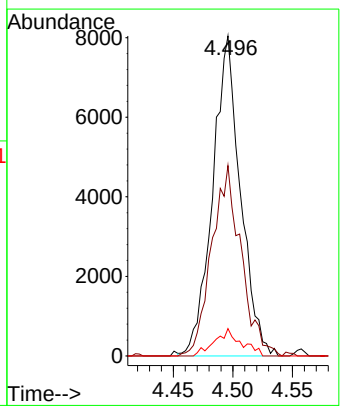


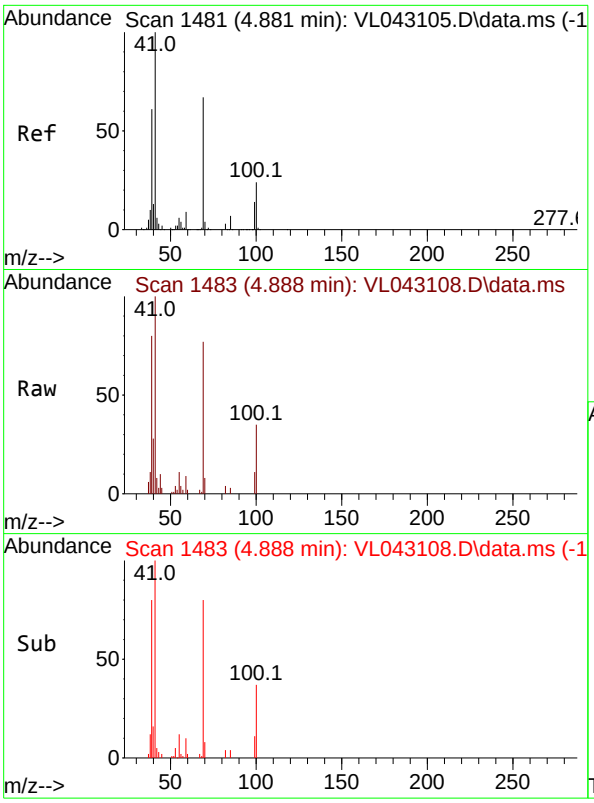


#42
Bromodichloromethane
Concen: 0.519 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 83 Resp: 13094

Ion	Ratio	Lower	Upper
83	100		
85	59.5	50.6	75.8
127	8.5	6.3	9.5



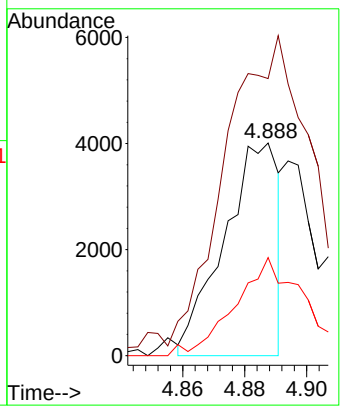


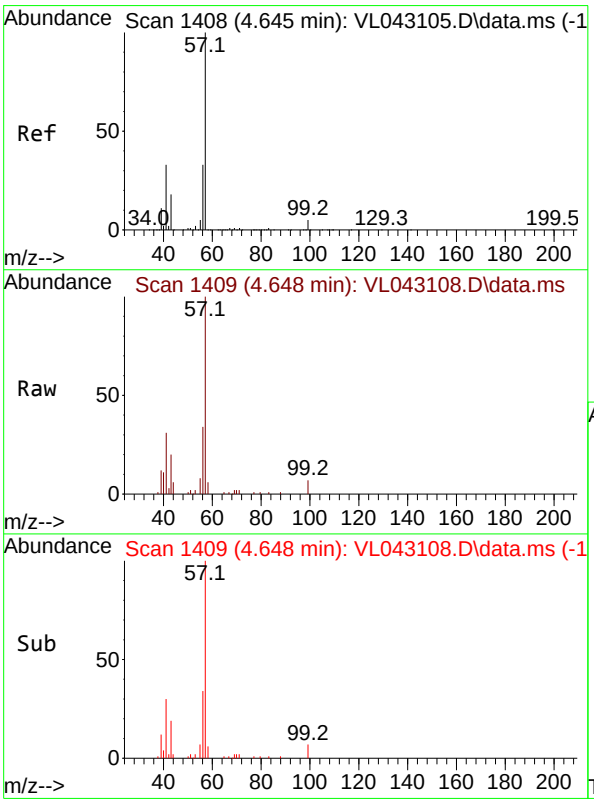
#43
Methyl Methacrylate
Concen: 0.303 ppbv
RT: 4.888 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 69 Resp: 4902

Ion	Ratio	Lower	Upper
69	100		
41	0.0	120.5	180.7#
100	61.1	29.0	43.4#

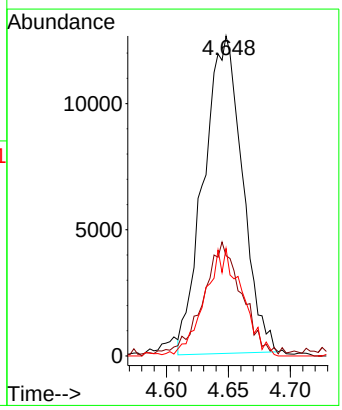


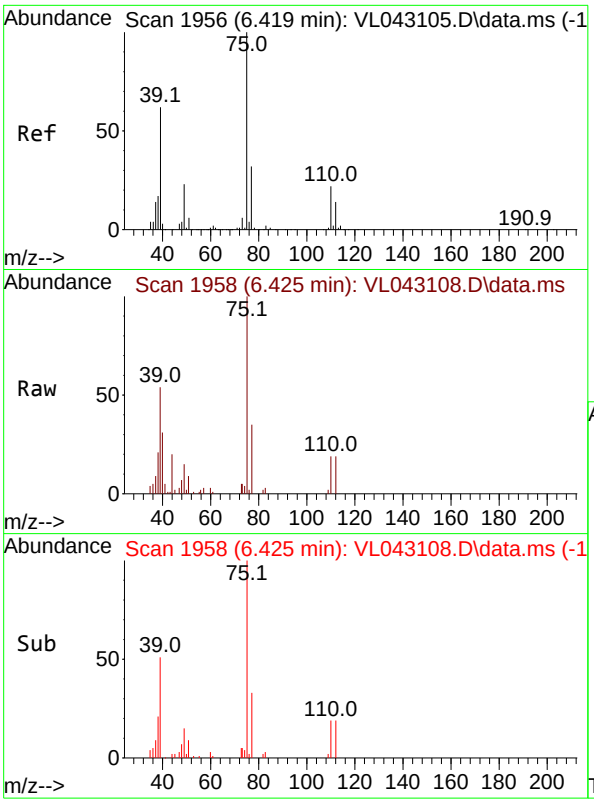


#44
2,2,4-Trimethylpentane
Concen: 0.516 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 57 Resp: 27304

Ion	Ratio	Lower	Upper
57	100		
41	34.2	26.3	39.5
56	33.3	25.9	38.9



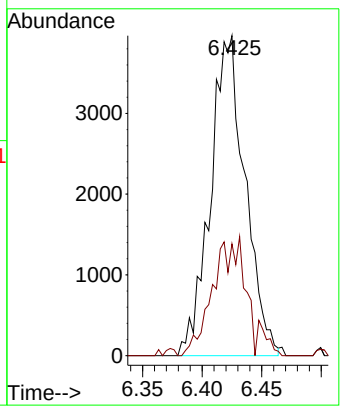


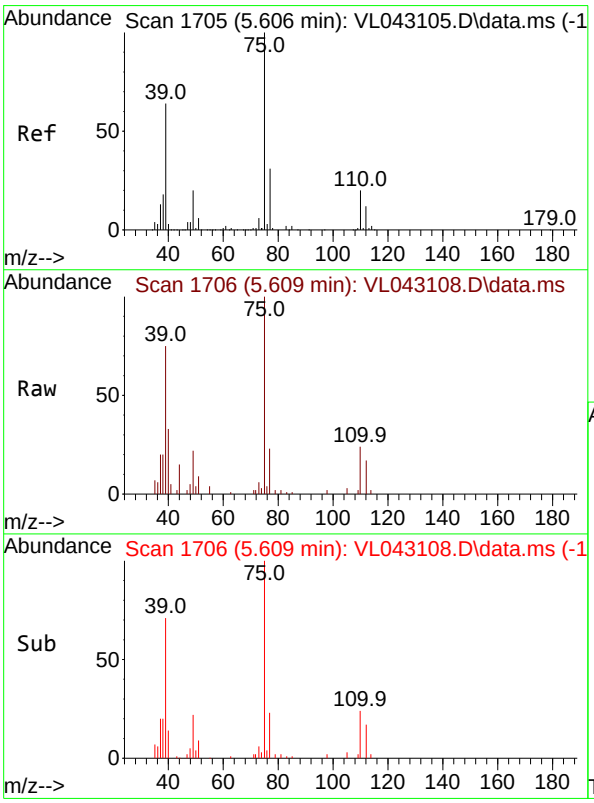
#45
t-1,3-Dichloropropene
Concen: 0.498 ppbv
RT: 6.425 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 75 Resp: 8030

Ion	Ratio	Lower	Upper
75	100		
77	34.9	25.4	38.2

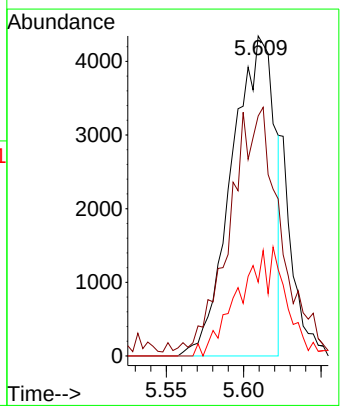


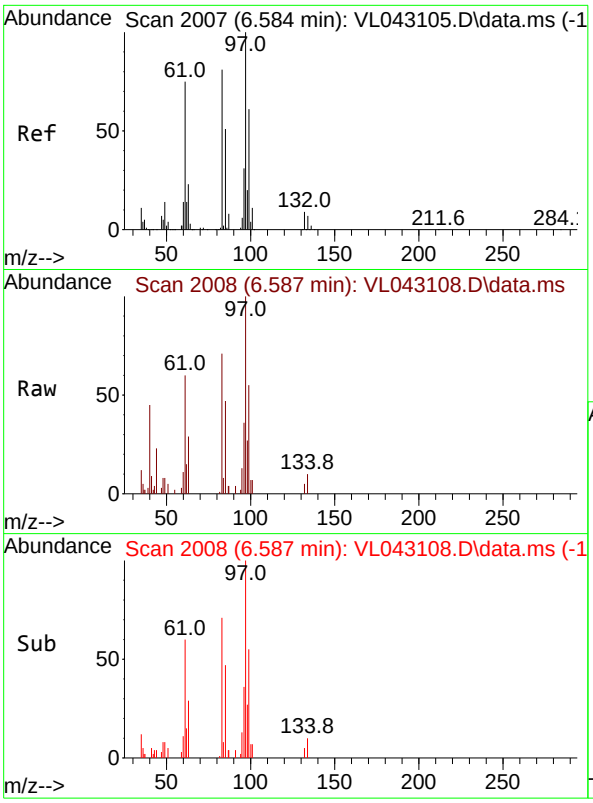


#46
cis-1,3-Dichloropropene
Concen: 0.435 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 75 Resp: 8375

Ion	Ratio	Lower	Upper
75	100		
39	72.5	51.0	76.6
77	23.1	25.0	37.4#



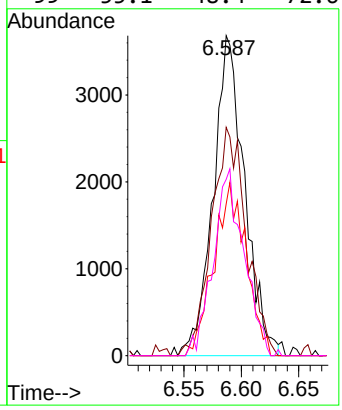


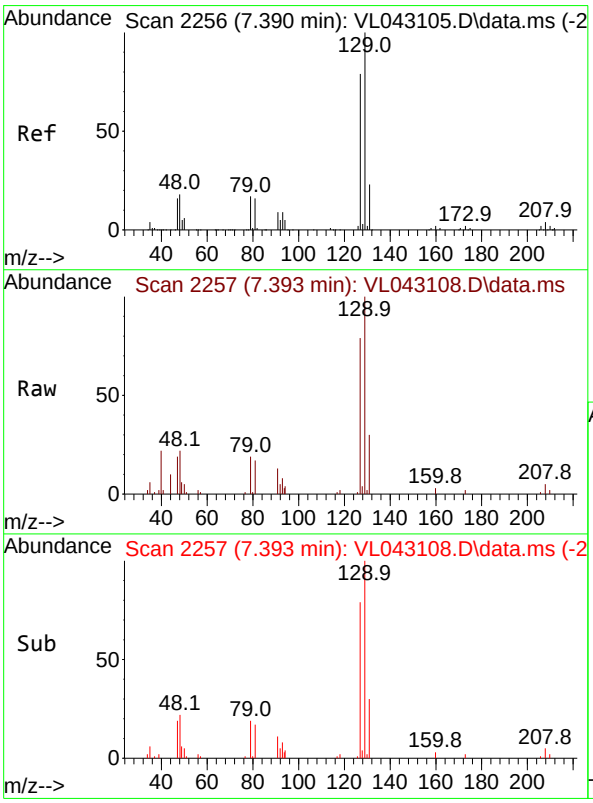
#47
1,1,2-Trichloroethane
Concen: 0.560 ppbv
RT: 6.587 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 97 Resp: 6996

Ion	Ratio	Lower	Upper
97	100		
83	71.4	64.6	96.8
85	47.5	40.6	60.8
99	55.1	48.4	72.6

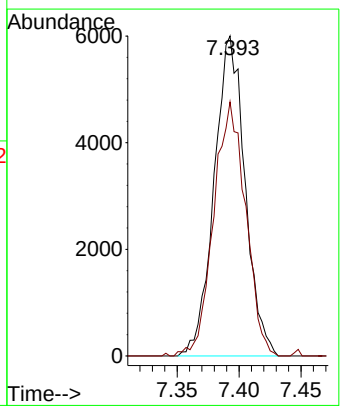


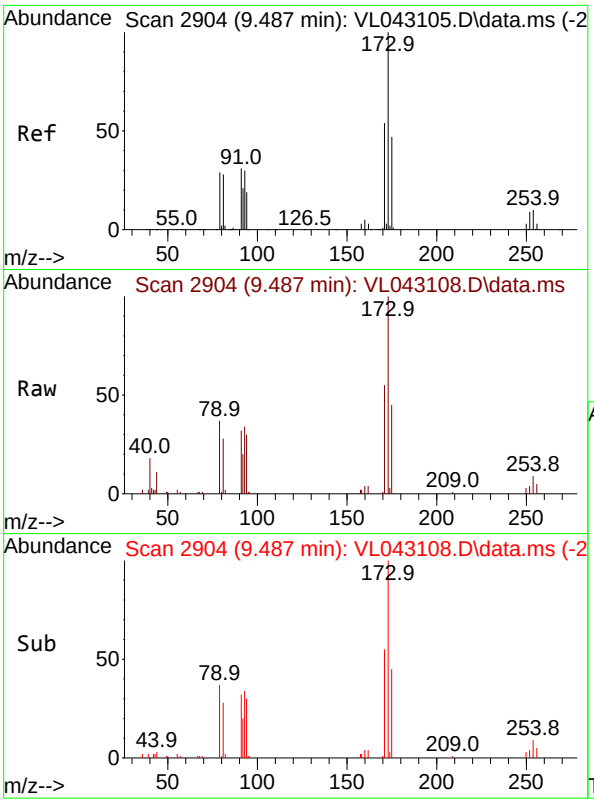


#48
Dibromochloromethane
Concen: 0.498 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:129 Resp: 10413

Ion	Ratio	Lower	Upper
129	100		
127	82.2	39.3	117.9



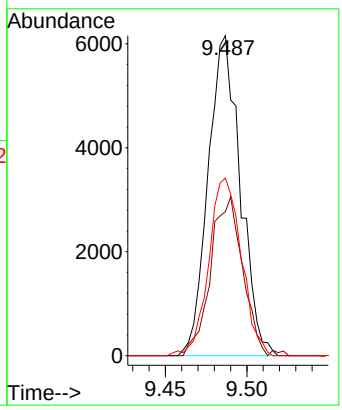


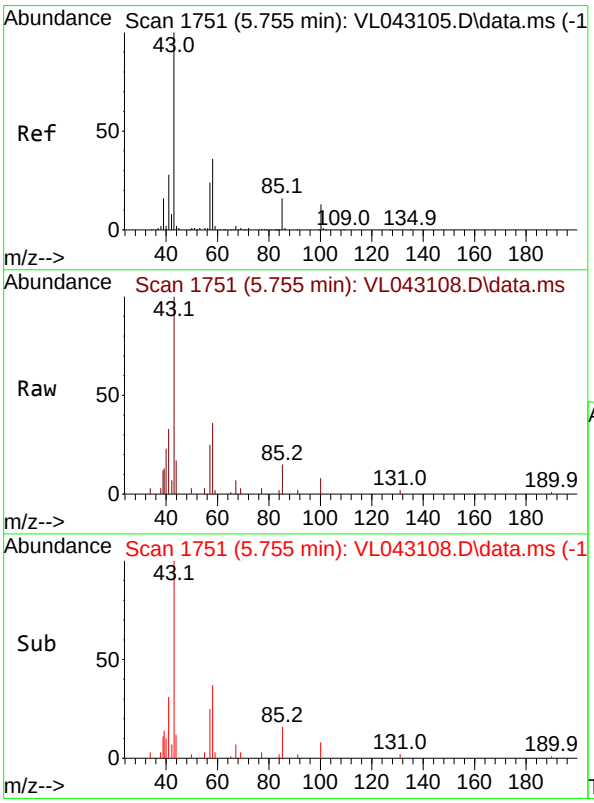
#49
Bromoform
Concen: 0.498 ppbv
RT: 9.487 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:173 Resp: 8455

Ion	Ratio	Lower	Upper
173	100		
175	49.6	38.8	58.2
171	56.3	41.7	62.5

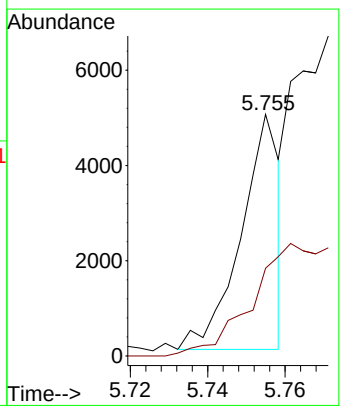


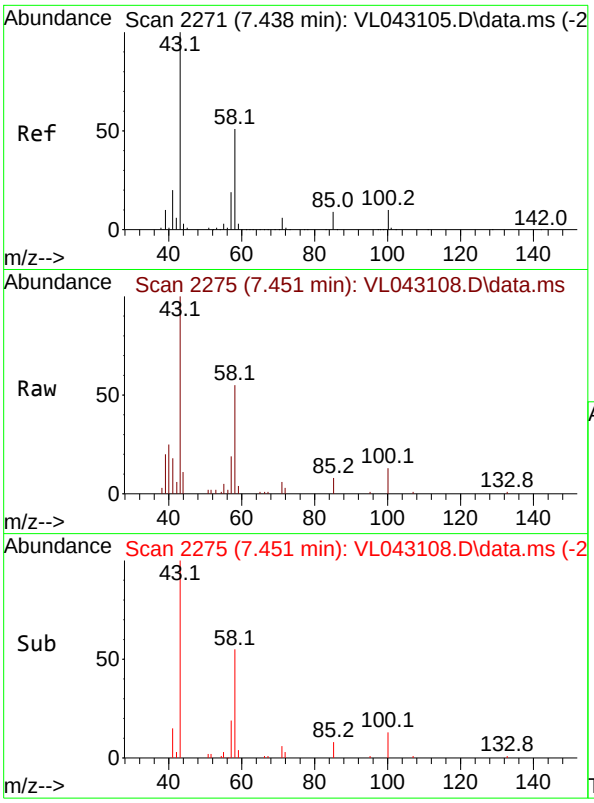


#50
4-Methyl-2-Pentanone
Concen: 0.110 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 3434

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7#



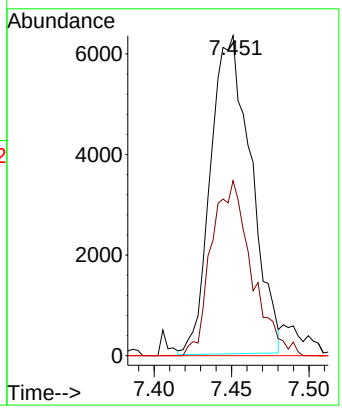


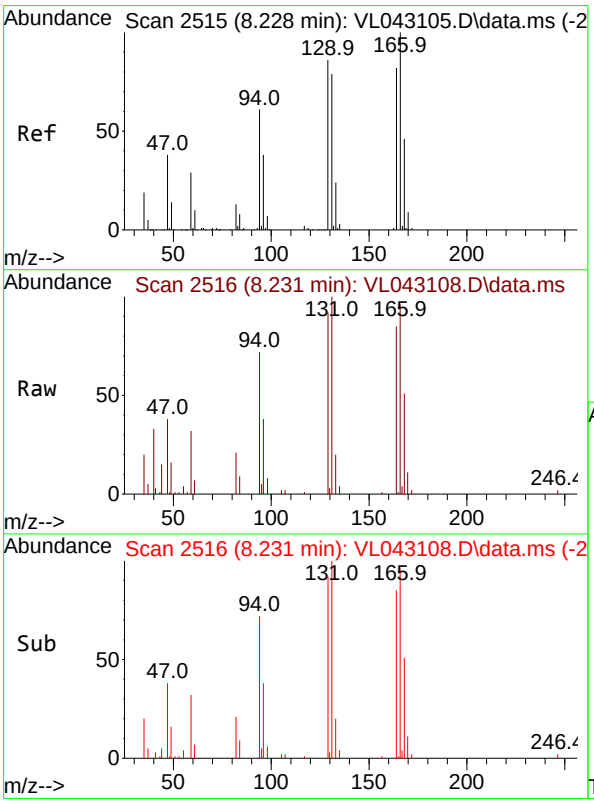
#51
2-Hexanone
Concen: 0.491 ppbv
RT: 7.451 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 11485

Ion	Ratio	Lower	Upper
43	100		
58	54.7	40.4	60.6
98	0.0	0.1	0.1#

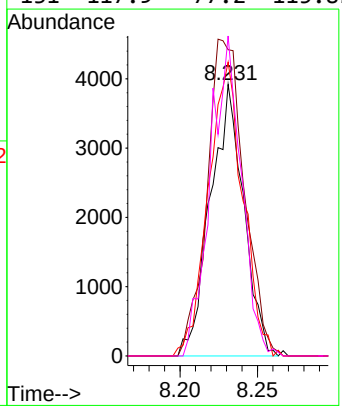


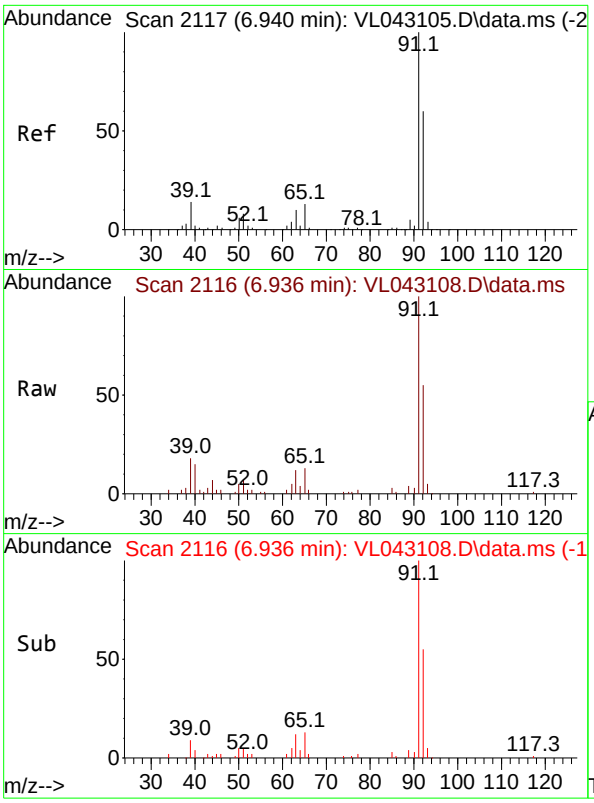


#52
Tetrachloroethene
Concen: 0.513 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:164 Resp: 5863

Ion	Ratio	Lower	Upper
164	100		
166	112.8	97.6	146.4
129	106.1	84.5	126.7
131	117.9	77.2	115.8#



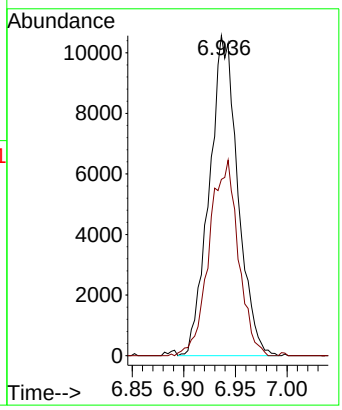


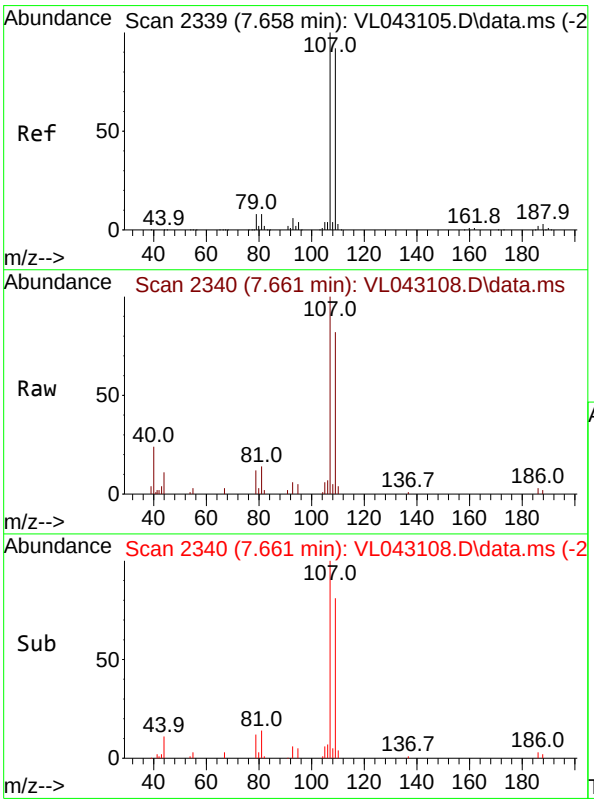
#53
Toluene
Concen: 0.542 ppbv
RT: 6.936 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 20380

Ion	Ratio	Lower	Upper
91	100		
92	62.1	48.8	73.2

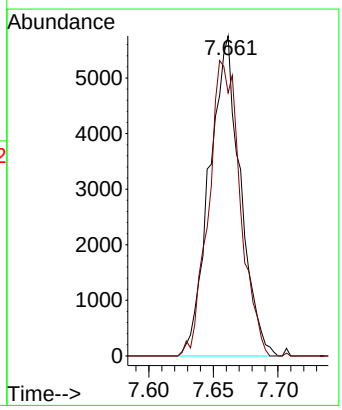


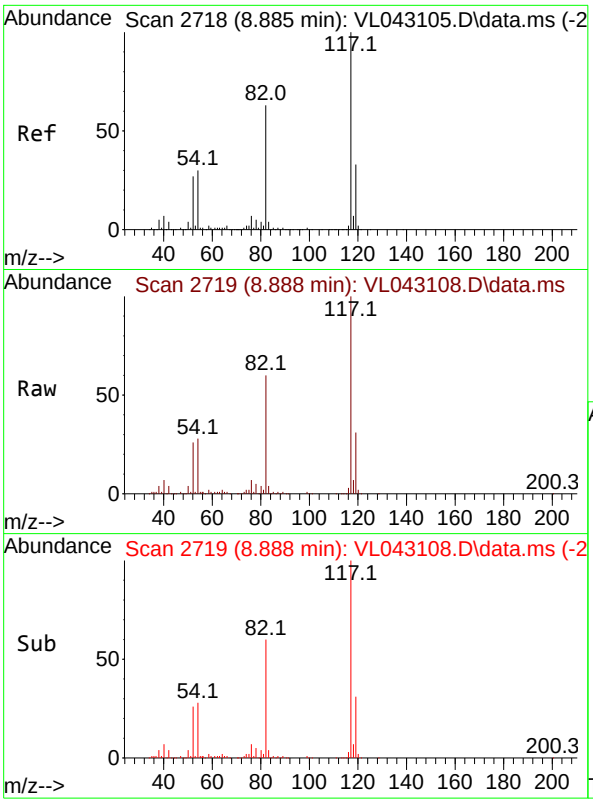


#54
1,2-Dibromoethane
Concen: 0.486 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:107 Resp: 9586

Ion	Ratio	Lower	Upper
107	100		
109	82.2	73.4	110.2



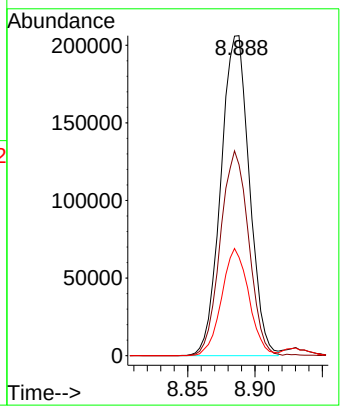


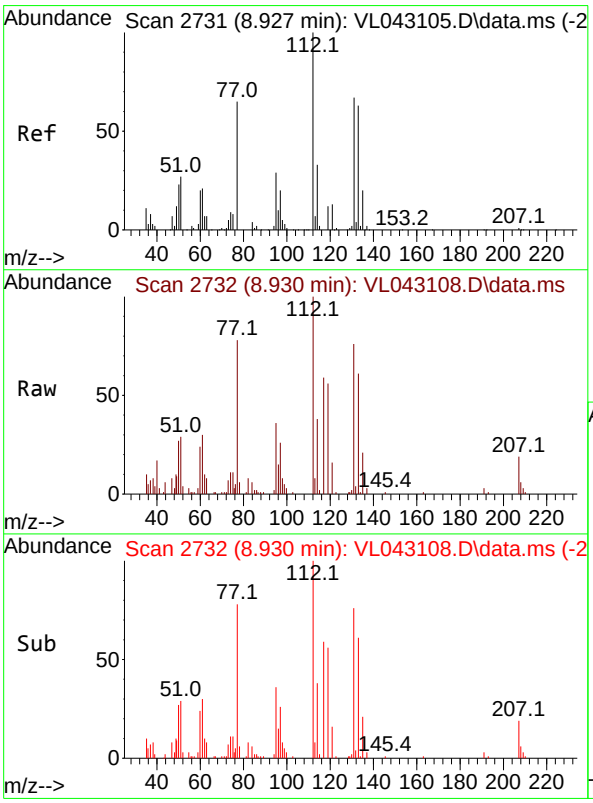
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:117 Resp: 303445

Ion	Ratio	Lower	Upper
117	100		
82	63.9	53.8	80.8
119	32.1	25.4	38.0

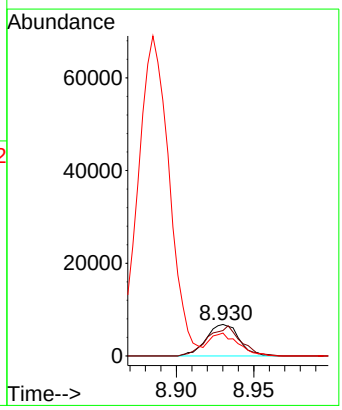


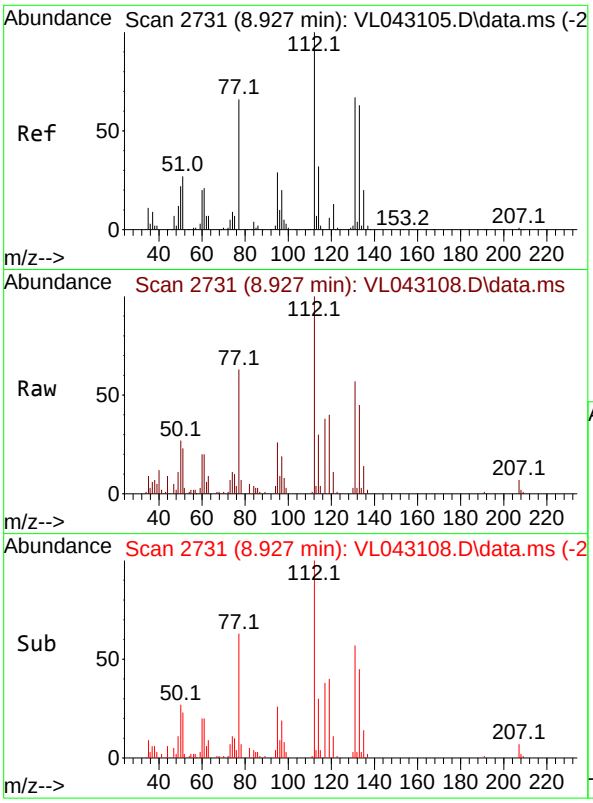


#56
1,1,1,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:131 Resp: 10044

Ion	Ratio	Lower	Upper
131	100		
133	94.6	75.7	113.5
119	1032.5	50.6	76.0#



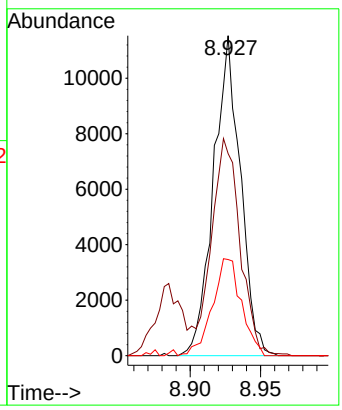


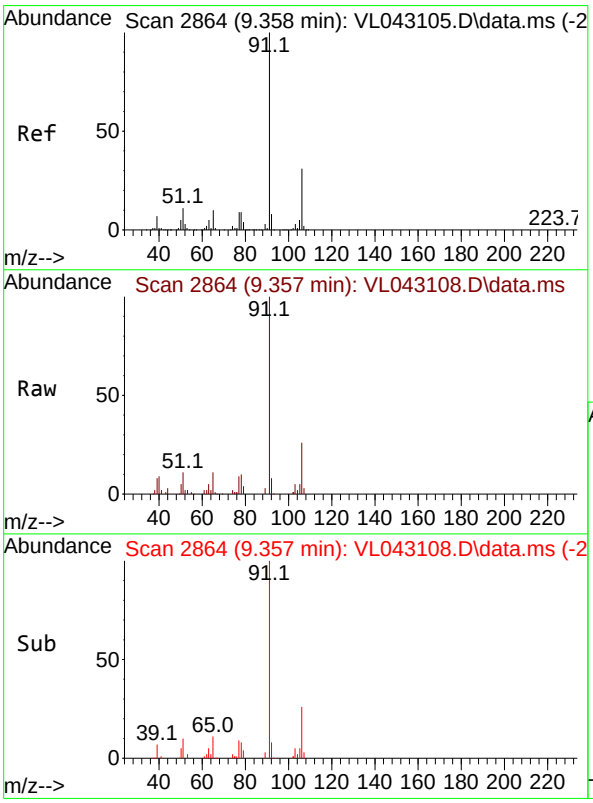
#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:112 Resp: 15318

Ion	Ratio	Lower	Upper
112	100		
77	62.5	53.3	79.9
114	30.0	29.3	35.8

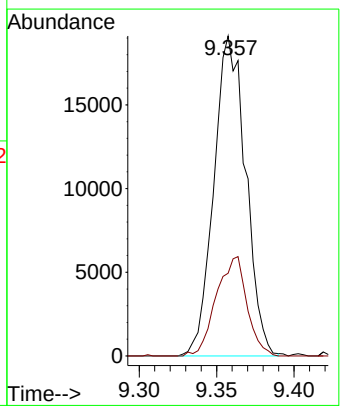


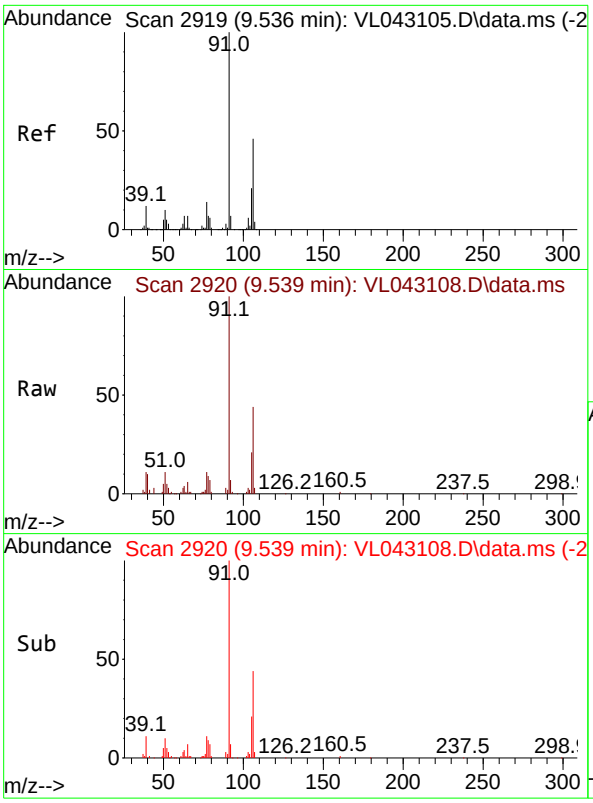


#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 27330

Ion	Ratio	Lower	Upper
91	100		
106	25.8	24.8	37.2



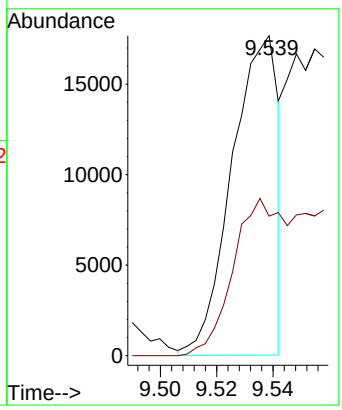


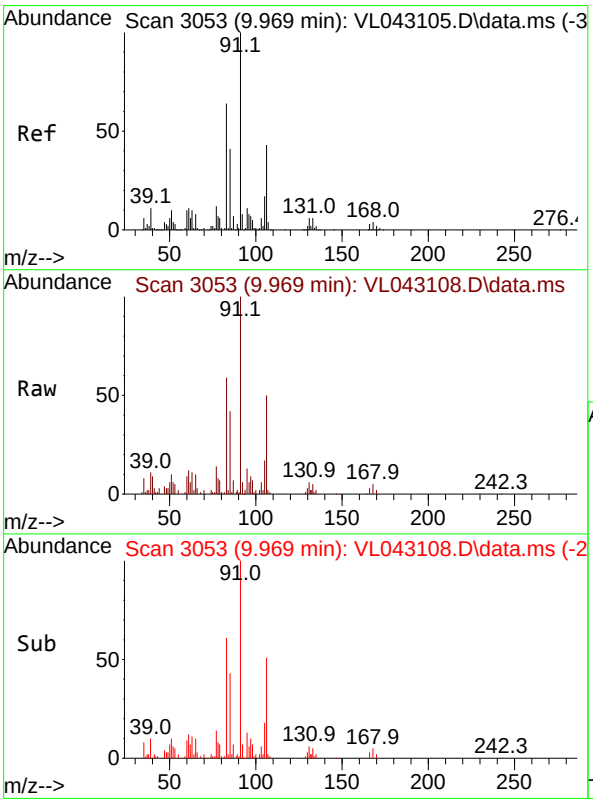
#59
m/p-Xylene
Concen: 0.483 ppbv
RT: 9.539 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 20079

Ion	Ratio	Lower	Upper
91	100		
106	104.4	38.0	57.0#

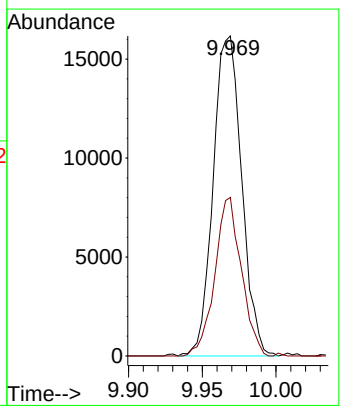


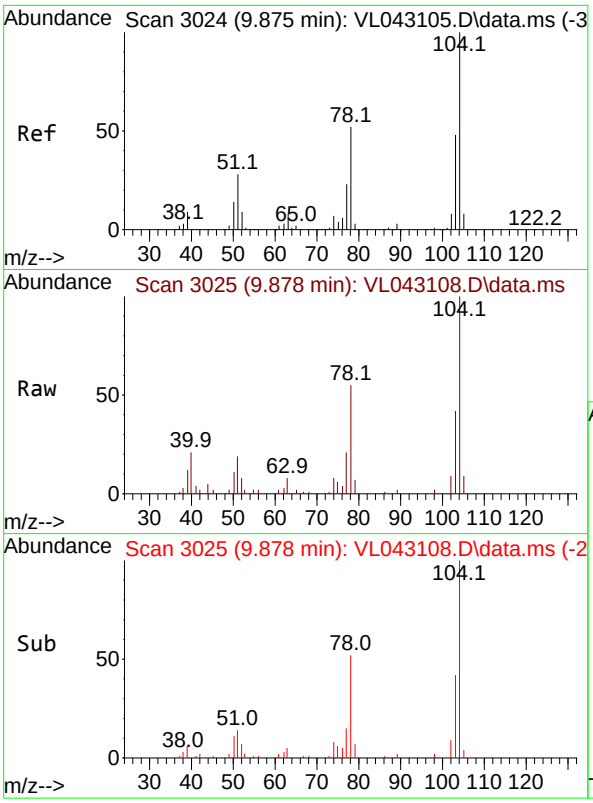


#60
o-Xylene
Concen: 0.530 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 21745

Ion	Ratio	Lower	Upper
91	100		
106	46.2	21.9	65.8



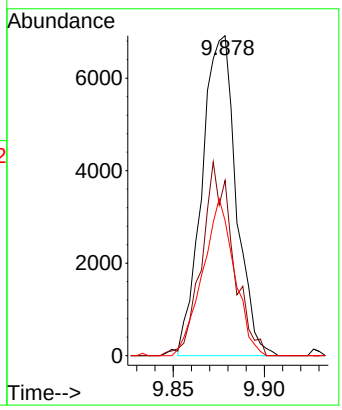


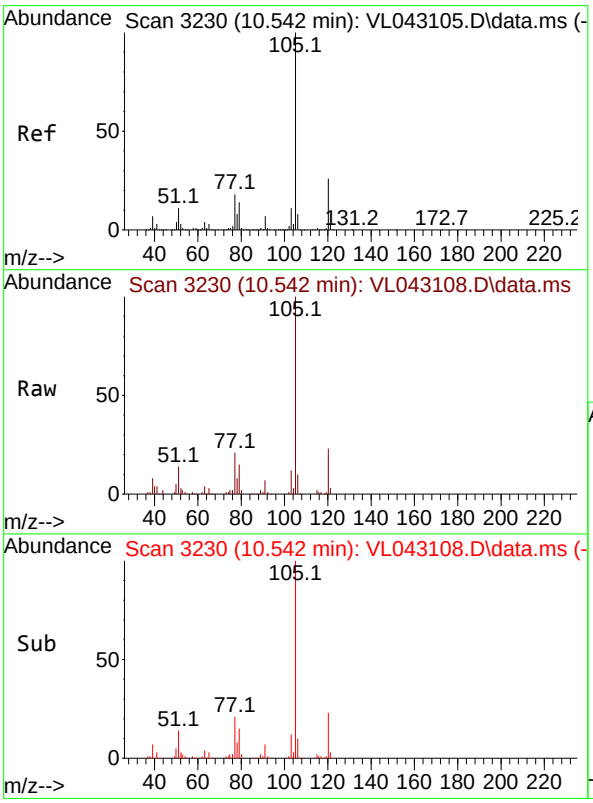
#61
Styrene
Concen: 0.489 ppbv
RT: 9.878 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:104 Resp: 9052

Ion	Ratio	Lower	Upper
104	100		
78	55.0	40.2	60.2
103	45.6	36.9	55.3

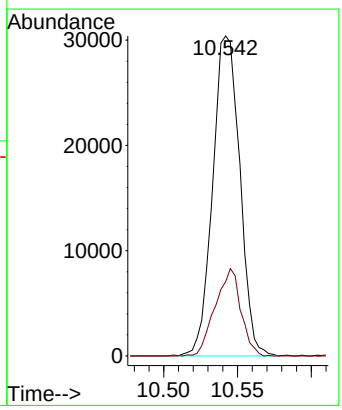


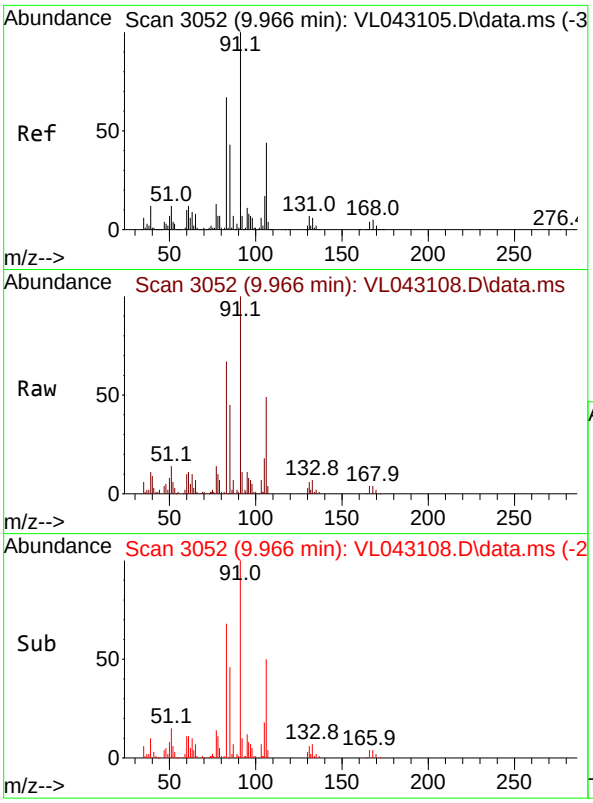


#62
Isopropylbenzene
Concen: 0.525 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 38899

Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.2	30.4



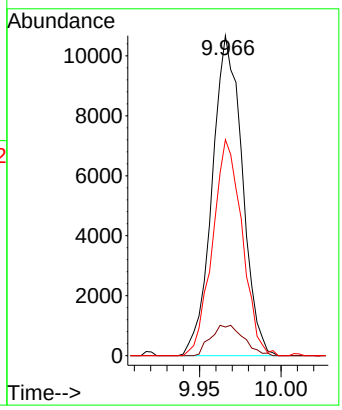


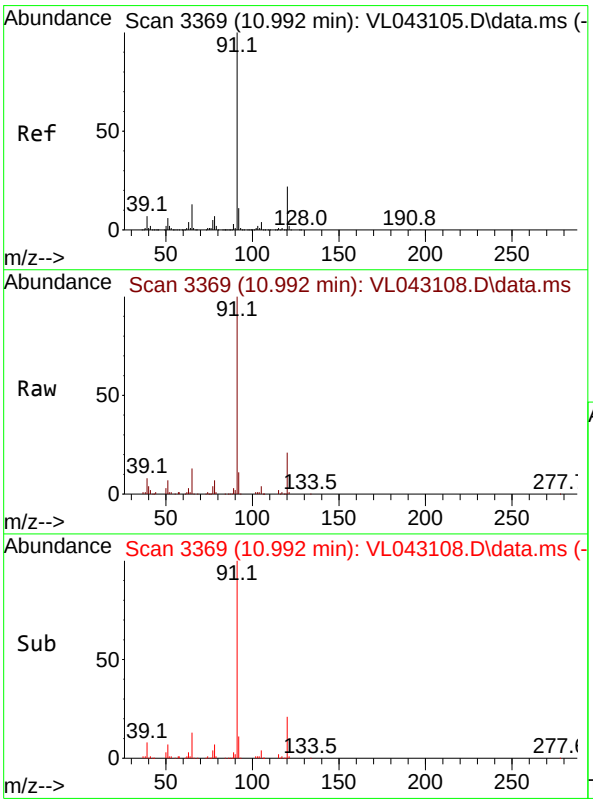
#63
1,1,2,2-Tetrachloroethane
Concen: 0.497 ppbv
RT: 9.966 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 13653

Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.8	14.3
85	66.7	32.0	96.0

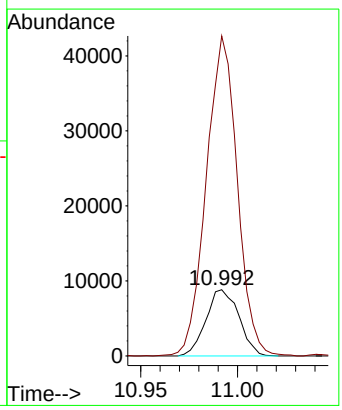


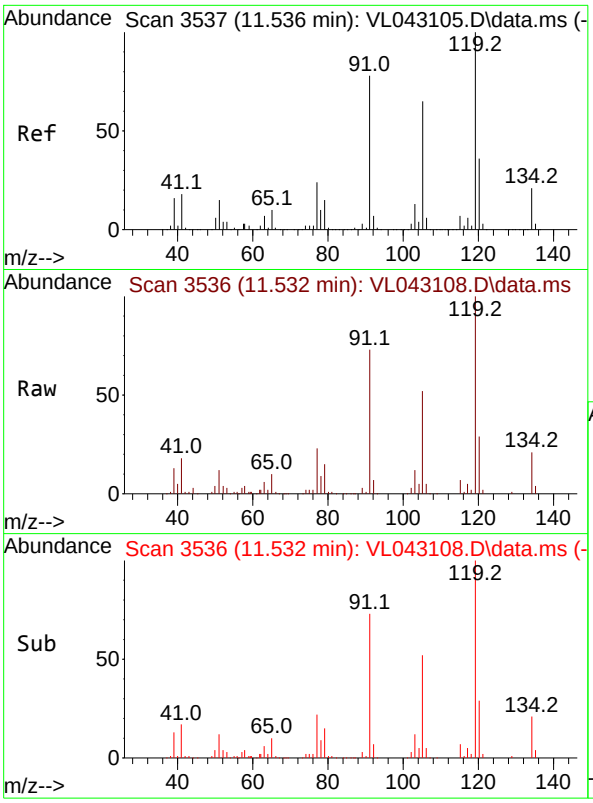


#64
n-propylbenzene
Concen: 0.532 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:120 Resp: 10435

Ion	Ratio	Lower	Upper
120	100		
91	455.0	361.6	542.4



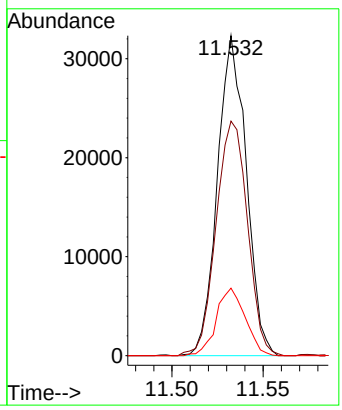


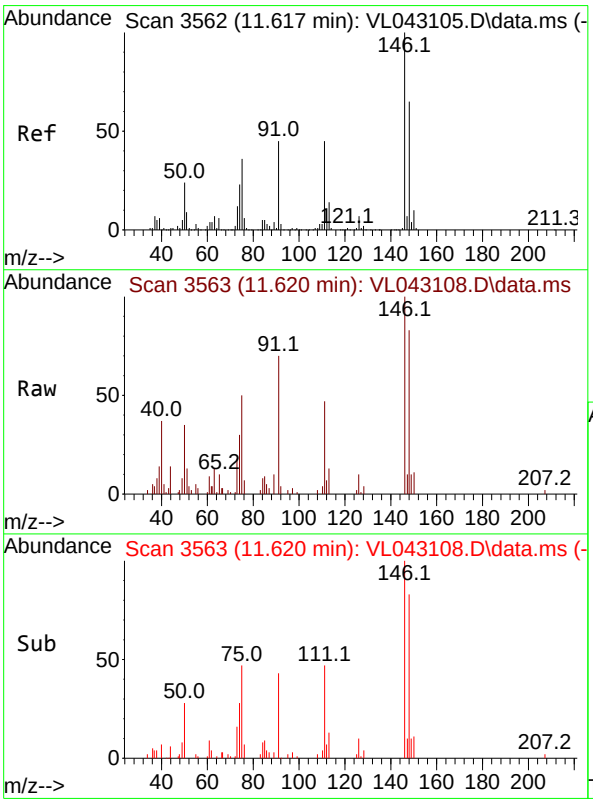
#65
tert-Butylbenzene
Concen: 0.543 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:119 Resp: 35537

Ion	Ratio	Lower	Upper
119	100		
91	80.0	63.4	95.0
134	21.2	17.3	25.9

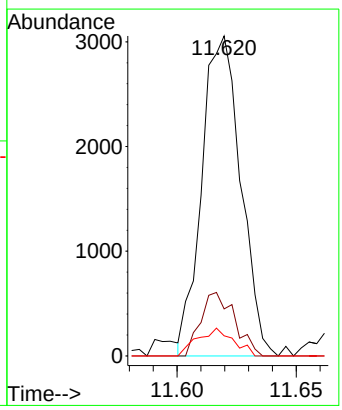


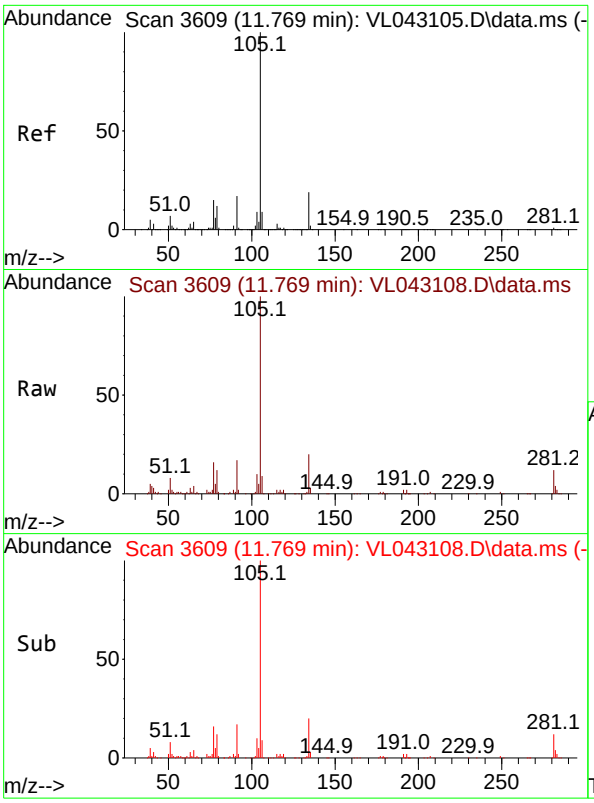


#66
Benzyl Chloride
Concen: 0.476 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 3477

Ion	Ratio	Lower	Upper
91	100		
126	17.3	14.6	22.0
128	7.9	4.6	6.8#



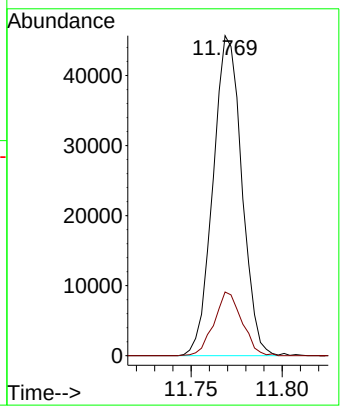


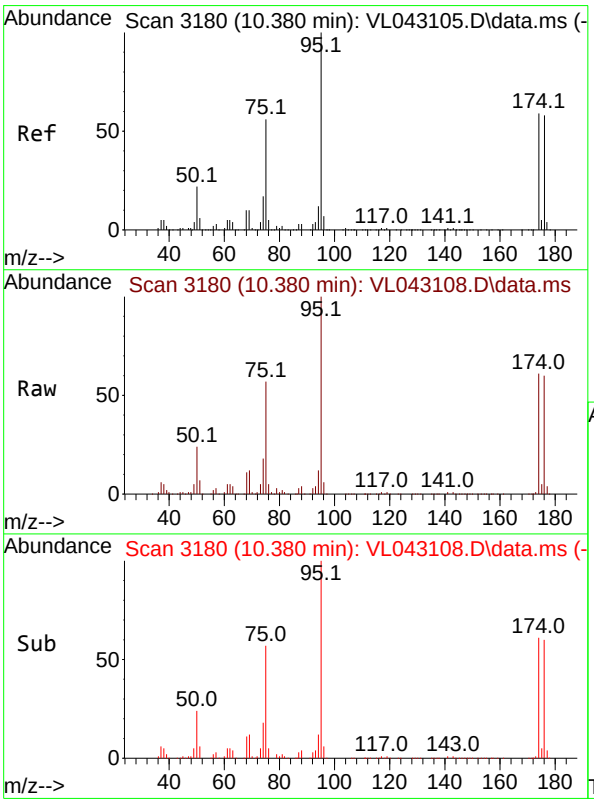
#67
sec-Butylbenzene
Concen: 0.541 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 50259

Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.5	23.3

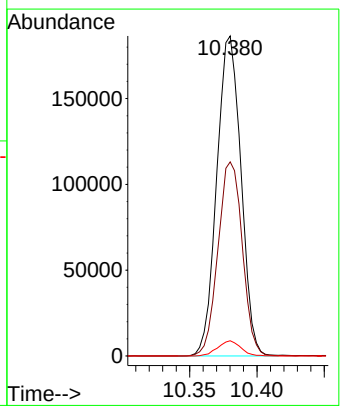


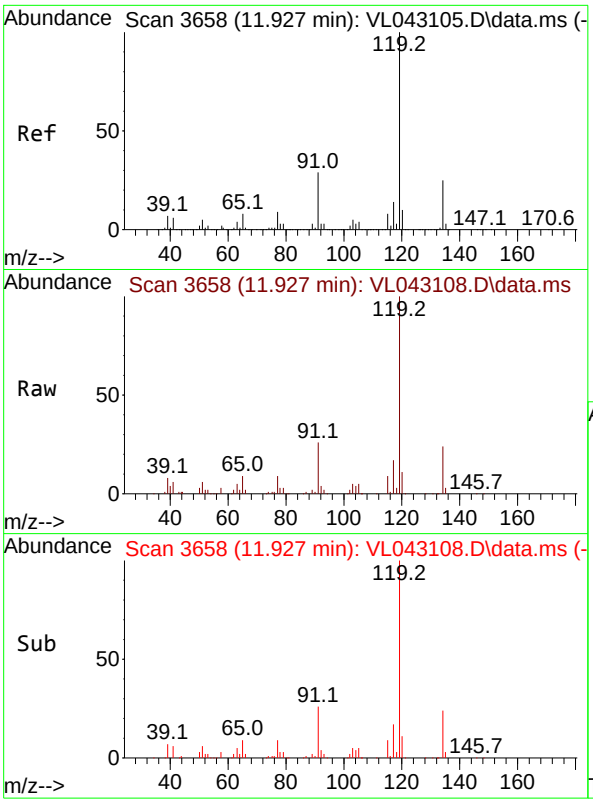


#68
1-Bromo-4-Fluorobenzene
Concen: 9.875 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 95 Resp: 232904

Ion	Ratio	Lower	Upper
95	100		
174	61.0	48.3	72.5
175	4.5	3.8	5.8



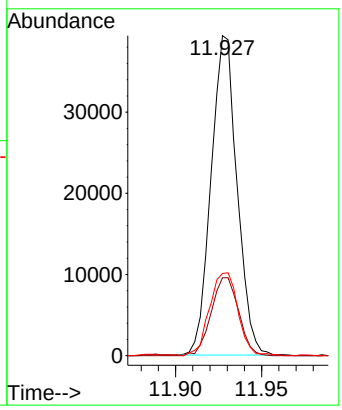


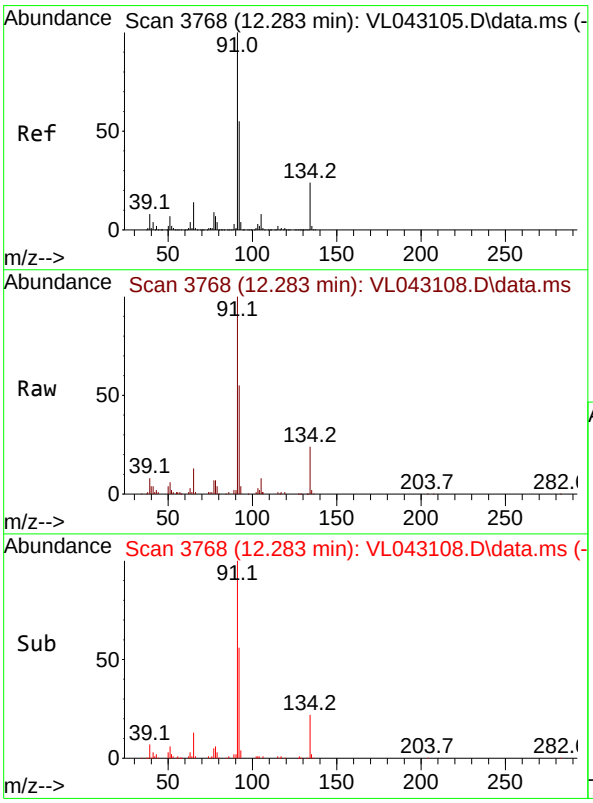
#69
p-Isopropyltoluene
Concen: 0.524 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:119 Resp: 41366

Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.3	30.5
91	28.9	22.6	33.8

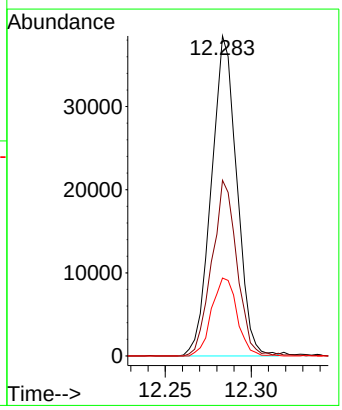


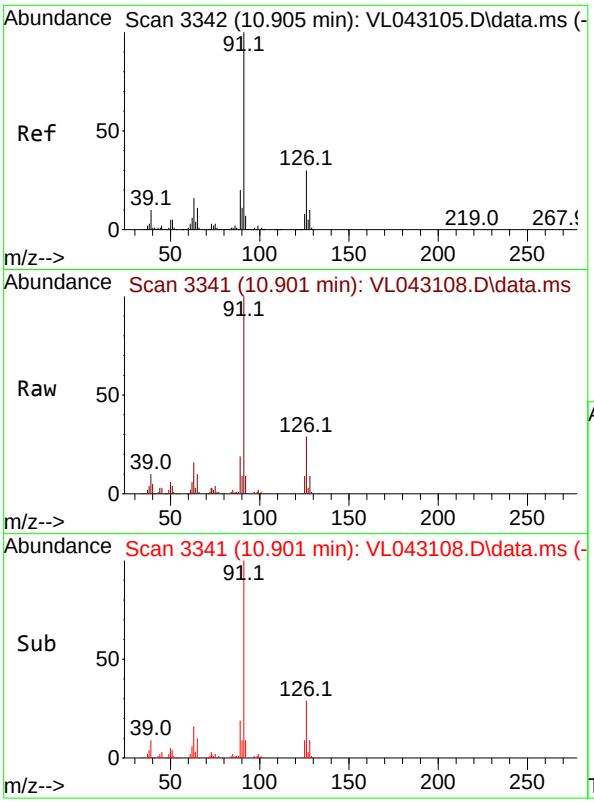


#70
n-Butylbenzene
Concen: 0.509 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 39620

Ion	Ratio	Lower	Upper
91	100		
92	54.2	44.5	66.7
134	24.4	19.3	28.9



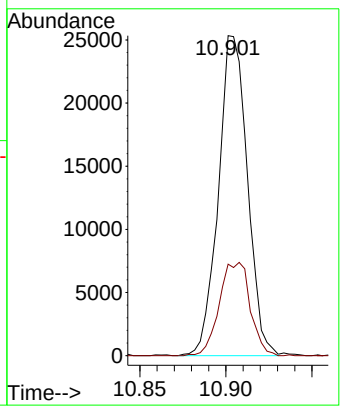


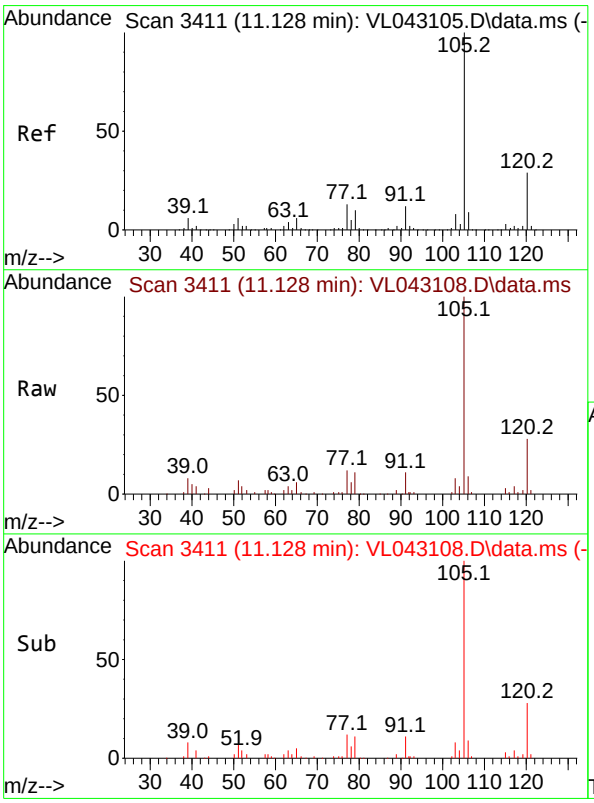
#71
2-Chlorotoluene
Concen: 0.526 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 29722

Ion	Ratio	Lower	Upper
91	100		
126	30.9	12.0	48.0

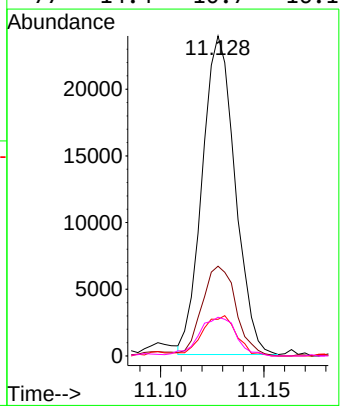


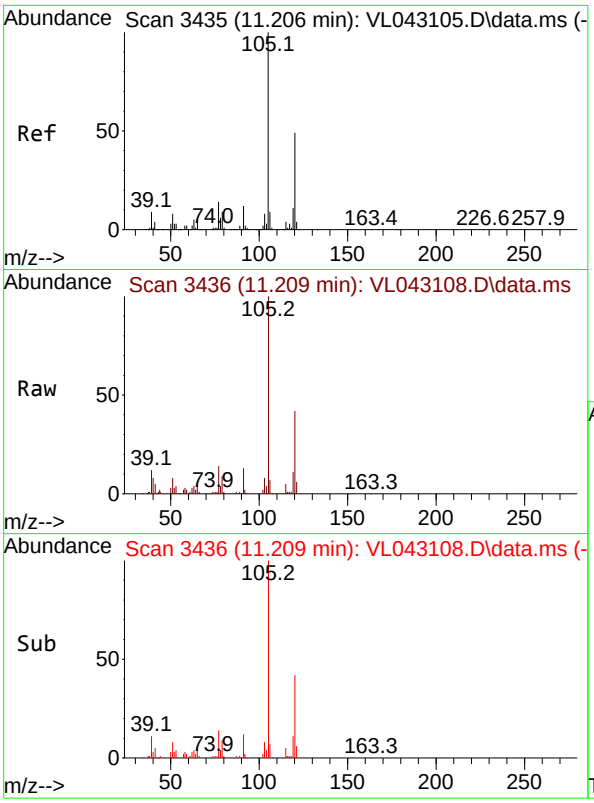


#72
4-Ethyltoluene
Concen: 0.524 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 26408

Ion	Ratio	Lower	Upper
105	100		
120	30.8	24.2	36.4
91	14.6	10.0	15.0
77	14.4	10.7	16.1



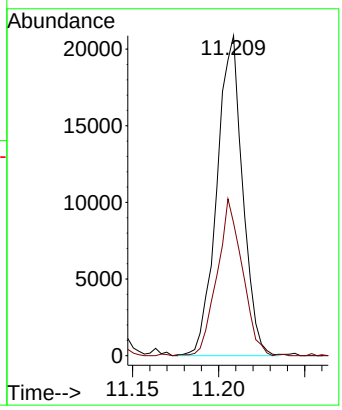


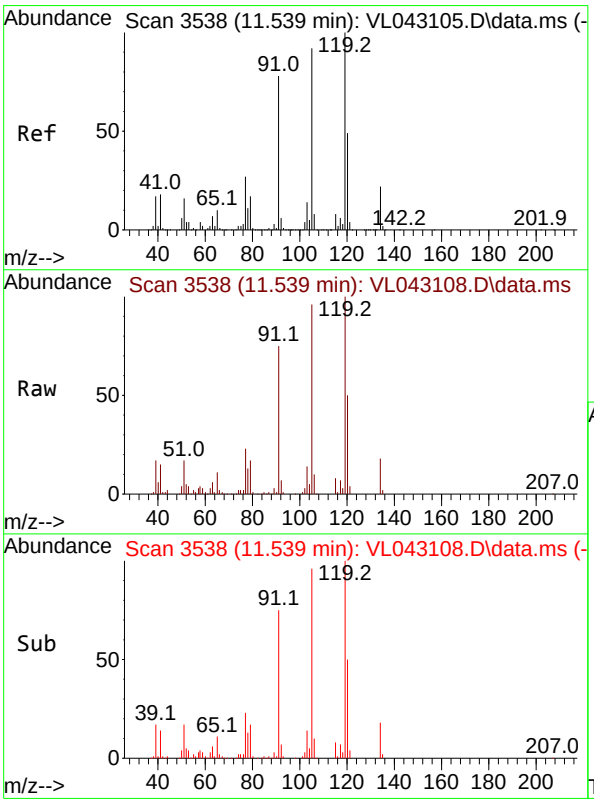
#73
1,3,5-Trimethylbenzene
Concen: 0.523 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 21754

Ion	Ratio	Lower	Upper
105	100		
120	41.1	39.0	58.6

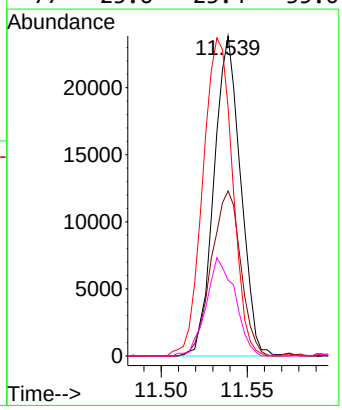


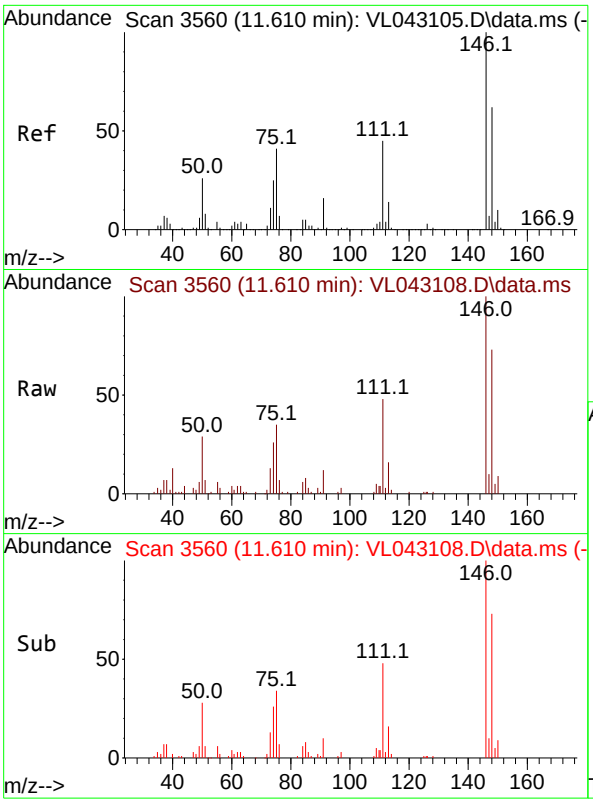


#74
1,2,4-Trimethylbenzene
Concen: 0.551 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 25663

Ion	Ratio	Lower	Upper
105	100		
120	51.5	42.8	64.2
91	77.7	68.3	102.5
77	23.6	23.4	35.0



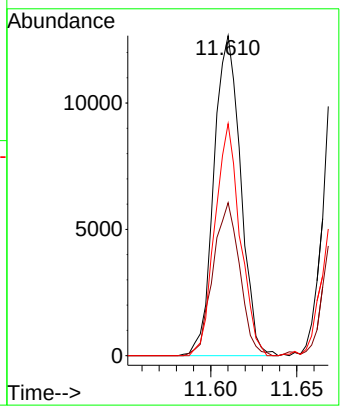


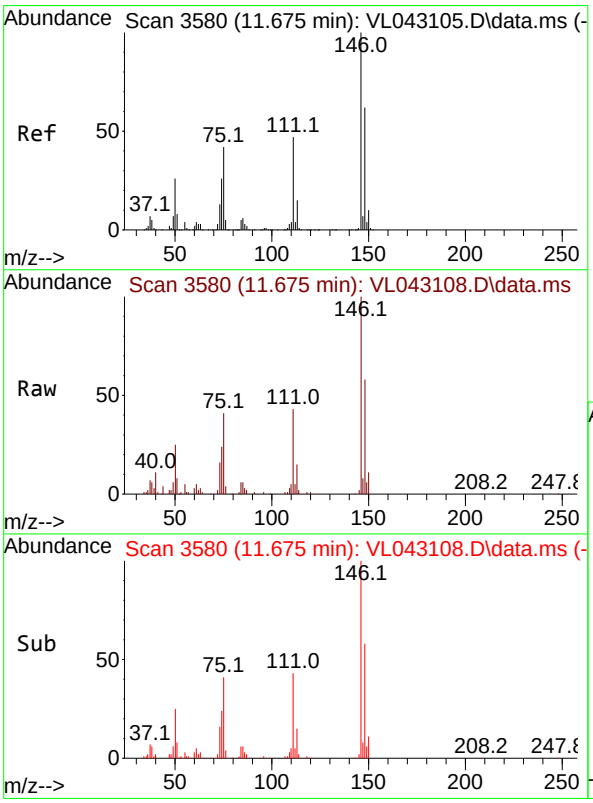
#75
1,3-Dichlorobenzene
Concen: 0.507 ppbv
RT: 11.610 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 13697

Ion	Ratio	Lower	Upper
146	100		
111	47.8	23.3	69.9
148	68.4	31.6	95.0

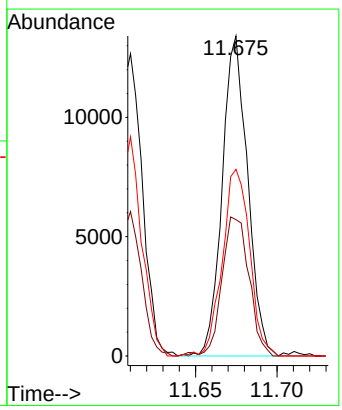


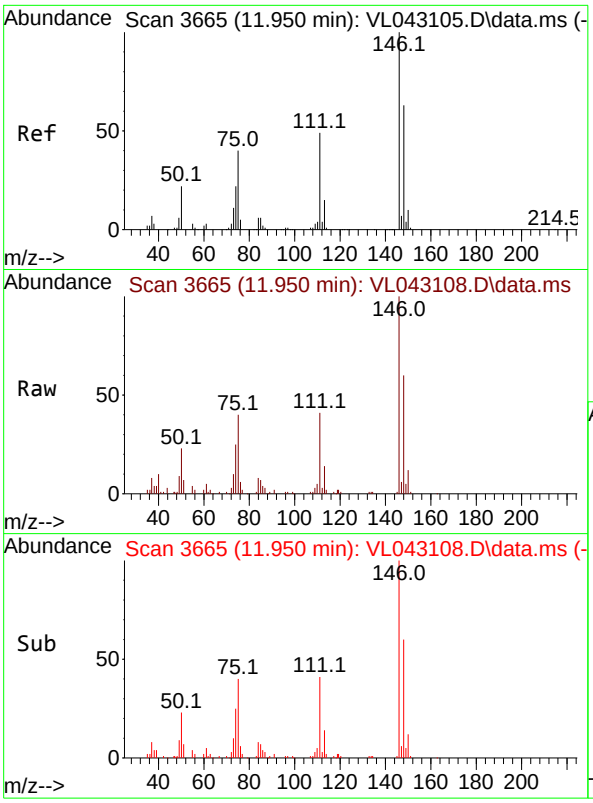


#76
1,4-Dichlorobenzene
Concen: 0.533 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:146 Resp: 14514

Ion	Ratio	Lower	Upper
146	100		
111	46.4	22.4	67.0
148	62.7	31.6	94.7



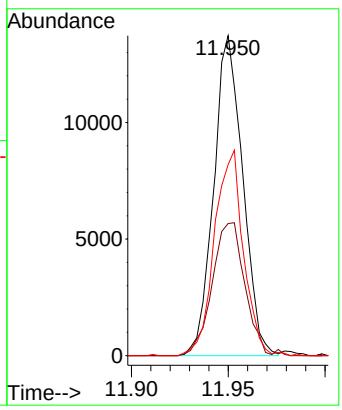


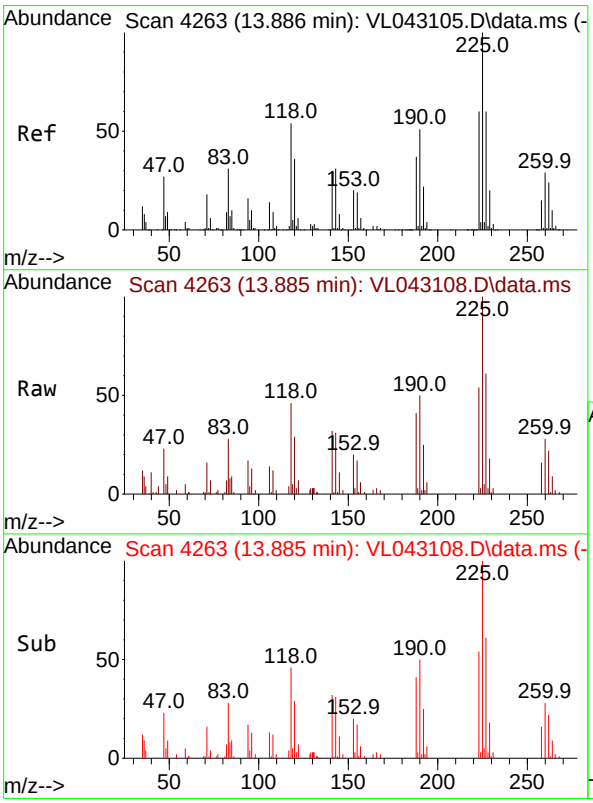
#77
1,2-Dichlorobenzene
Concen: 0.548 ppbv
RT: 11.950 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 14324

Ion	Ratio	Lower	Upper
146	100		
111	46.9	24.0	72.0
148	64.1	31.1	93.3

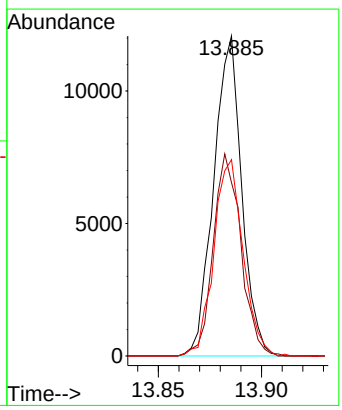


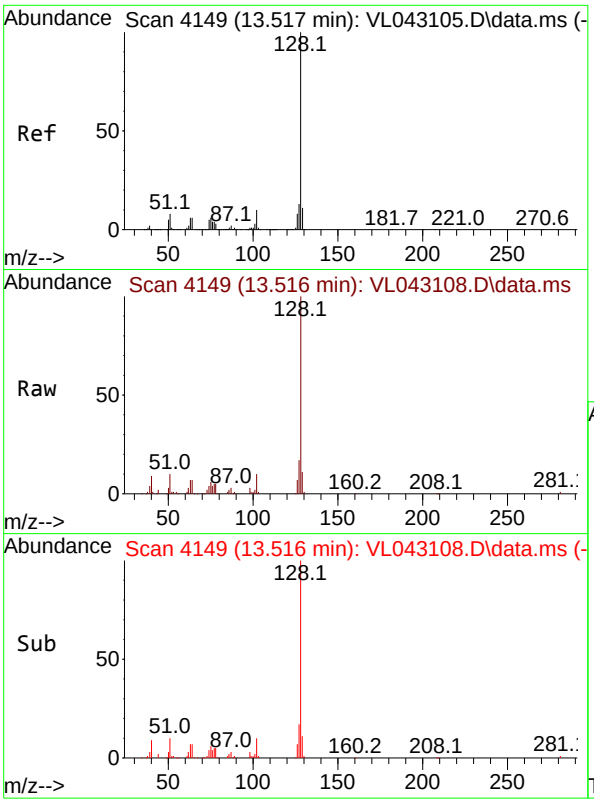


#78
Hexachloro-1,3-Butadiene
Concen: 0.564 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:225 Resp: 11400

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.2	75.4
227	64.2	49.6	74.4



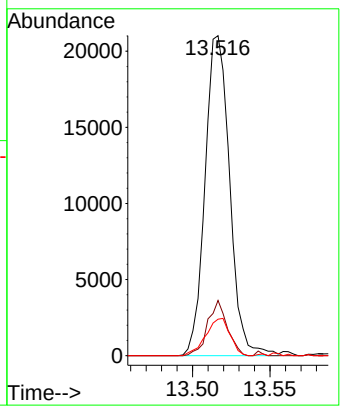


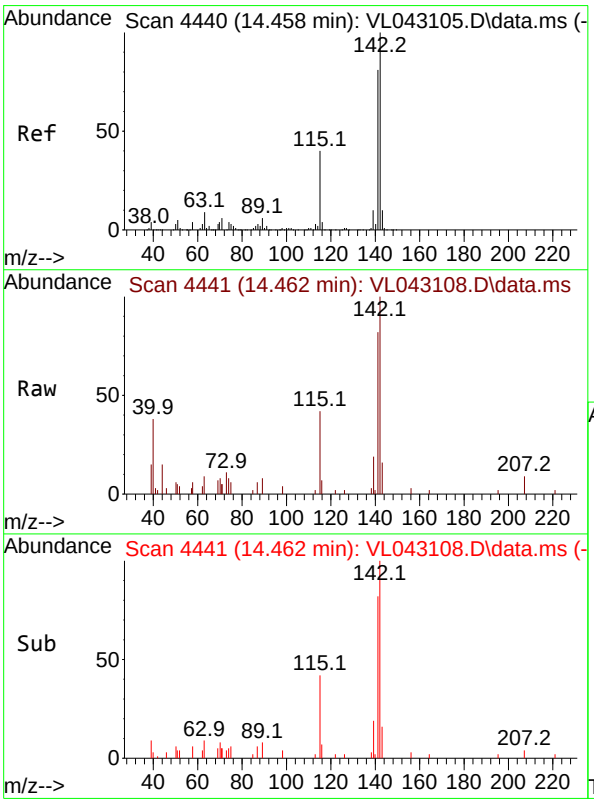
#79
Naphthalene
Concen: 0.483 ppbv
RT: 13.516 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:128 Resp: 23247

Ion	Ratio	Lower	Upper
128	100		
127	17.3	10.5	15.7#
129	11.4	9.1	13.7

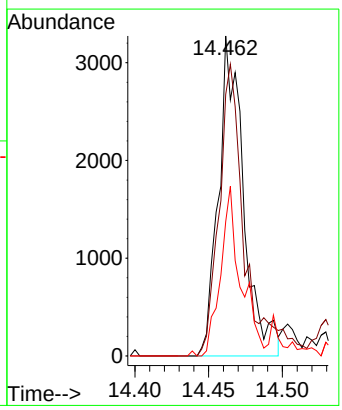


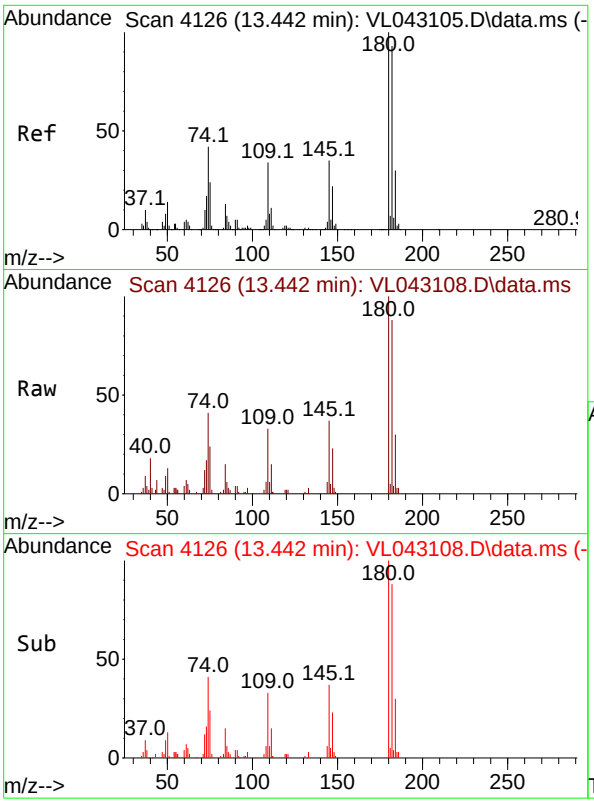


#80
Naphthalene,2-methyl-
Concen: 0.305 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Tgt Ion:142 Resp: 3874

Ion	Ratio	Lower	Upper
142	100		
141	92.6	64.6	97.0
115	51.2	30.2	45.4#



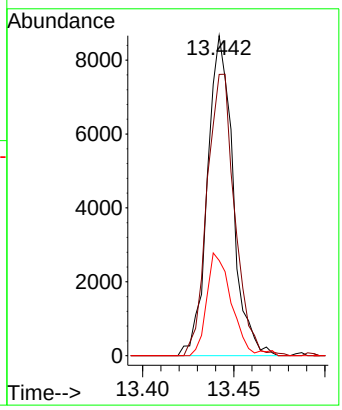


#81
1,2,4-Trichlorobenzene
Concen: 0.416 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043108.D
Acq: 14 Oct 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:180 Resp: 8395

Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.5	113.3
184	31.4	23.9	35.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043109.D
Acq On : 14 Oct 2025 13:08
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Oct 15 01:54:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	99997	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332574	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	299676	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	233673	10.032	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	1417	0.100	ppbv	96
3) Chlorodifluoromethane	1.479	51	1709	0.111	ppbv #	75
4) Chloromethane	1.534	50	746	0.132	ppbv	94
5) Vinyl Chloride	1.583	62	554	0.100	ppbv #	33
6) Bromomethane	1.667	94	479	0.158	ppbv #	61
7) Chloroethane	1.703	64	261	0.116	ppbv #	42
8) Dichlorotetrafluoroethane	1.557	85	1427	0.124	ppbv	85
9) Propene	1.486	41	689	0.101	ppbv #	1
10) Heptane	4.985	43	706	0.036	ppbv #	27
11) Trichlorofluoromethane	1.877	101	1515	0.109	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	1303	0.116	ppbv	97
13) Ethanol	1.725	45	327	0.130	ppbv #	27
14) Bromoethene	1.787	108	443	0.107	ppbv #	50
15) Acetone	1.839	43	2487	0.184	ppbv	93
16) 1,3-Butadiene	1.612	39	770	0.120	ppbv #	49
17) tert-Butyl alcohol	2.043	59	2301	0.124	ppbv #	3
18) 1,1-Dichloroethene	2.036	96	720	0.148	ppbv #	67
19) Isopropyl Alcohol	1.887	45	1443	0.172	ppbv #	53
20) Methylene Chloride	2.062	84	1890	0.355	ppbv #	77
21) Allyl Chloride	2.098	41	1664	0.167	ppbv #	43
22) trans-1,2-Dichloroethene	2.036	96	720	0.123	ppbv	86
23) Vinyl Acetate	2.467	43	2916	0.148	ppbv #	91
24) 1,1-Dichloroethane	2.408	63	1367	0.121	ppbv #	91
25) Ethyl Acetate	2.836	43	1114	0.033	ppbv #	66
26) Hexane	2.829	57	2134	0.139	ppbv	94
27) Carbon Disulfide	2.153	76	1609	0.114	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	351	0.050	ppbv #	49
29) Chloroform	2.855	83	1225	0.055	ppbv	89
30) Cyclohexane	3.868	84	340	0.025	ppbv #	1
31) cis-1,2-Dichloroethene	2.725	61	1605	0.109	ppbv #	88
32) 1,1,1-Trichloroethane	3.373	97	1581	0.068	ppbv #	60
34) 2-Butanone	2.564	43	2560	0.114	ppbv	94
35) Carbon Tetrachloride	3.370	117	231	0.010	ppbv	90
36) Benzene	3.658	78	3507	0.112	ppbv	96
37) 1,2-Dichloroethane	3.224	62	1448	0.080	ppbv #	93
38) Trichloroethene	4.551	130	242	0.019	ppbv #	7
39) 1,2-Dichloropropane	3.962	63	80849	7.054	ppbv #	25
40) 1,4-Dioxane	4.609	88	339	0.066	ppbv #	38
41) Tetrahydrofuran	3.043	42	58	0.005	ppbv #	37
42) Bromodichloromethane	4.496	83	2440	0.098	ppbv #	73
43) Methyl Methacrylate	4.881	69	636	0.040	ppbv #	1
44) 2,2,4-Trimethylpentane	4.642	57	3354	0.064	ppbv #	45
45) t-1,3-Dichloropropene	6.425	75	617	0.039	ppbv	94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043109.D
Acq On : 14 Oct 2025 13:08
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Oct 15 01:54:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

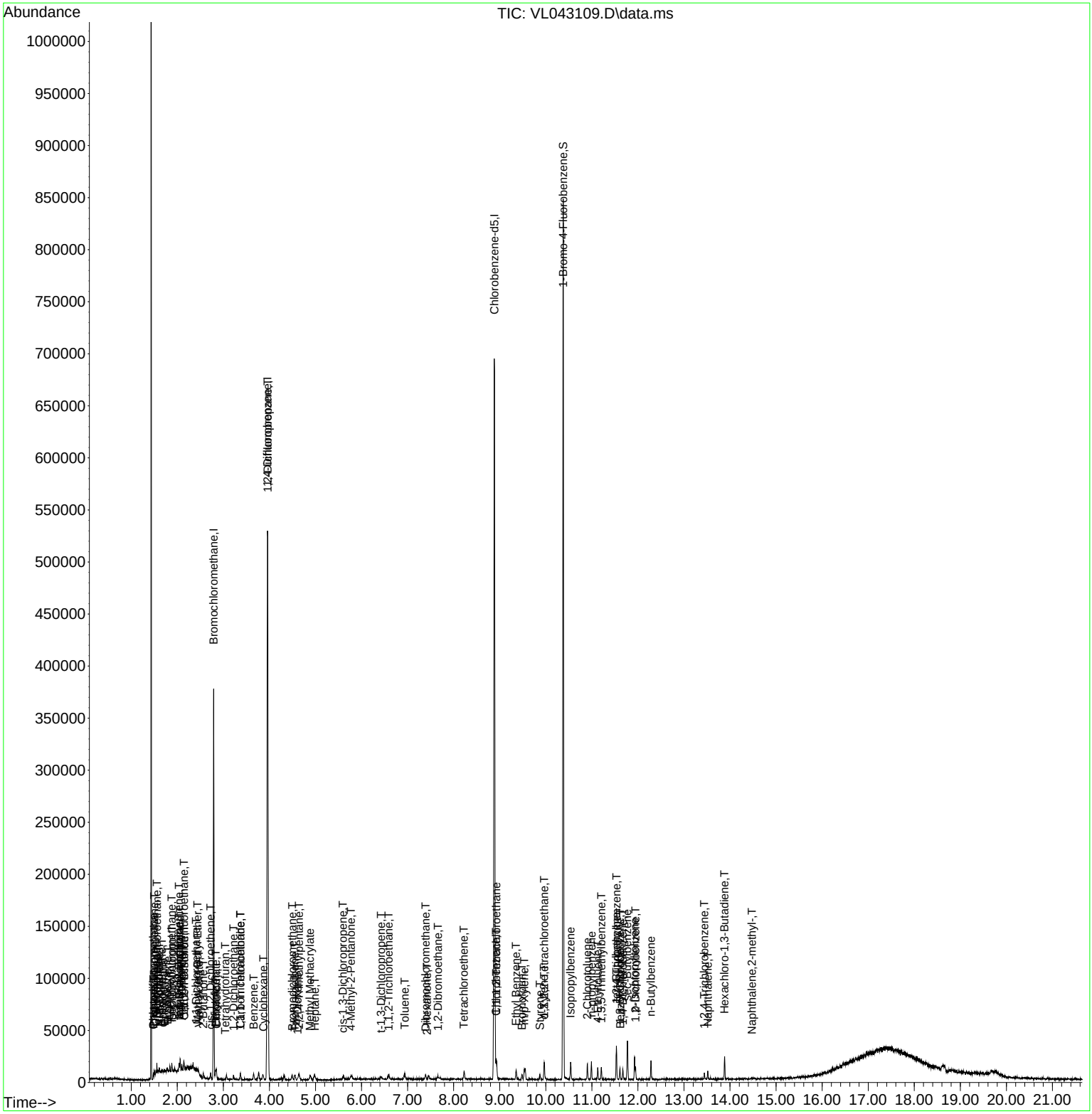
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	472	0.025	ppbv	#	55
47) 1,1,2-Trichloroethane	6.587	97	716	0.058	ppbv	#	38
48) Dibromochloromethane	7.393	129	1506	0.073	ppbv		72
49) Bromoform	9.484	173	1666	0.099	ppbv	#	90
50) 4-Methyl-2-Pentanone	5.771	43	1420	0.046	ppbv	#	38
51) 2-Hexanone	7.422	43	65	0.003	ppbv	#	27
52) Tetrachloroethene	8.221	164	377	0.033	ppbv	#	22
53) Toluene	6.940	91	1973	0.053	ppbv	#	9
54) 1,2-Dibromoethane	7.658	107	2201	0.113	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.927	131	1509	0.080	ppbv	#	9
57) Chlorobenzene	8.920	112	3177	0.113	ppbv	#	95
58) Ethyl Benzene	9.354	91	5210	0.100	ppbv		96
59) m/p-Xylene	9.535	91	3213	0.078	ppbv	#	29
60) o-Xylene	9.963	91	3450	0.085	ppbv		78
61) Styrene	9.872	104	1475	0.081	ppbv	#	82
62) Isopropylbenzene	10.539	105	8132	0.111	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.966	83	3053	0.113	ppbv		90
64) n-propylbenzene	10.992	120	1906	0.098	ppbv		87
65) tert-Butylbenzene	11.532	119	6951	0.108	ppbv		97
66) Benzyl Chloride	11.617	91	277	0.038	ppbv	#	78
67) sec-Butylbenzene	11.769	105	9081	0.099	ppbv		96
69) p-Isopropyltoluene	11.927	119	8105	0.104	ppbv		98
70) n-Butylbenzene	12.283	91	6640	0.086	ppbv		100
71) 2-Chlorotoluene	10.904	91	5527	0.099	ppbv		96
72) 4-Ethyltoluene	11.128	105	4754	0.095	ppbv	#	92
73) 1,3,5-Trimethylbenzene	11.205	105	4680	0.114	ppbv	#	85
74) 1,2,4-Trimethylbenzene	11.536	105	4519	0.098	ppbv	#	94
75) 1,3-Dichlorobenzene	11.610	146	2518	0.094	ppbv		94
76) 1,4-Dichlorobenzene	11.672	146	2266	0.084	ppbv		91
77) 1,2-Dichlorobenzene	11.950	146	2676	0.104	ppbv		94
78) Hexachloro-1,3-Butadiene	13.879	225	2107	0.105	ppbv		95
79) Naphthalene	13.516	128	3453	0.073	ppbv	#	97
80) Naphthalene,2-methyl-	14.478	142	582	0.046	ppbv	#	28
81) 1,2,4-Trichlorobenzene	13.442	180	774	0.039	ppbv	#	77

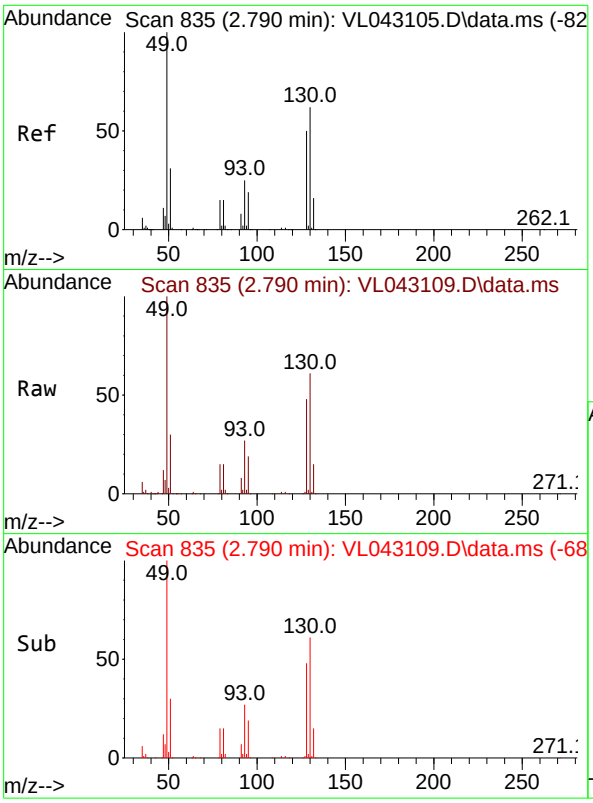
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043109.D
Acq On : 14 Oct 2025 13:08
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Oct 15 01:54:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration



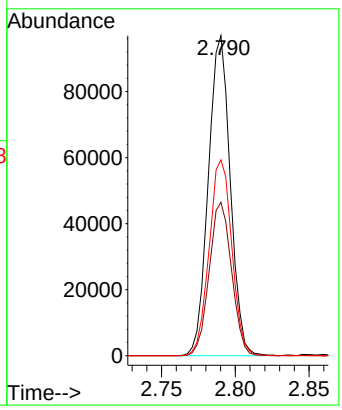


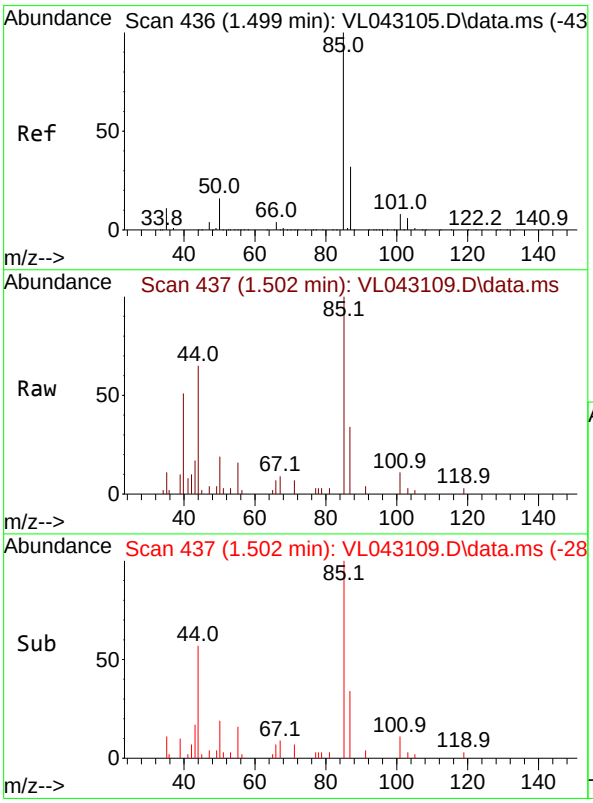
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 49 Resp: 99997

Ion	Ratio	Lower	Upper
49	100		
128	48.9	24.4	73.4
130	63.3	31.0	93.0

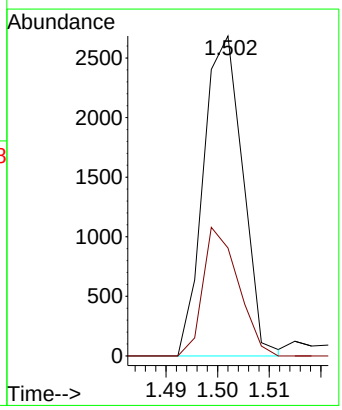


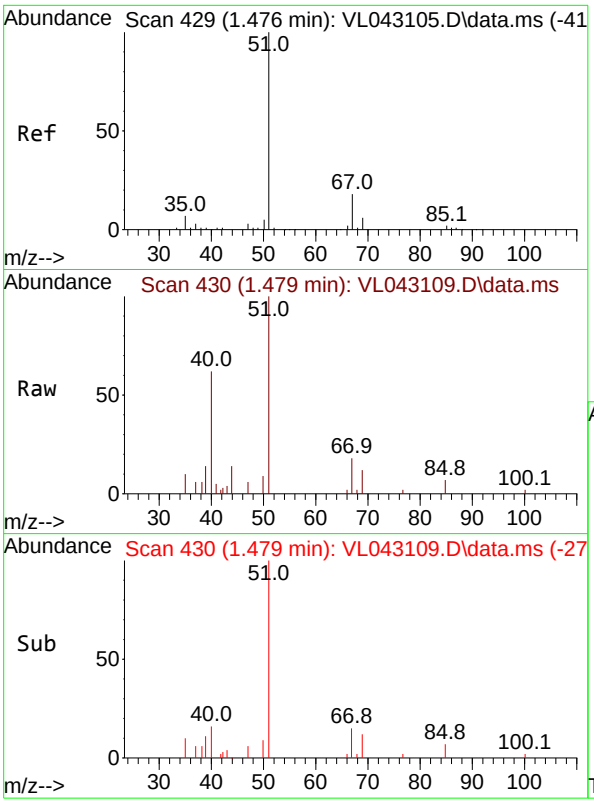


#2
Dichlorodifluoromethane
Concen: 0.100 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 85 Resp: 1417

Ion	Ratio	Lower	Upper
85	100		
87	33.7	25.3	37.9



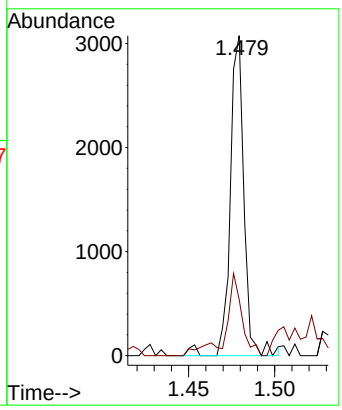


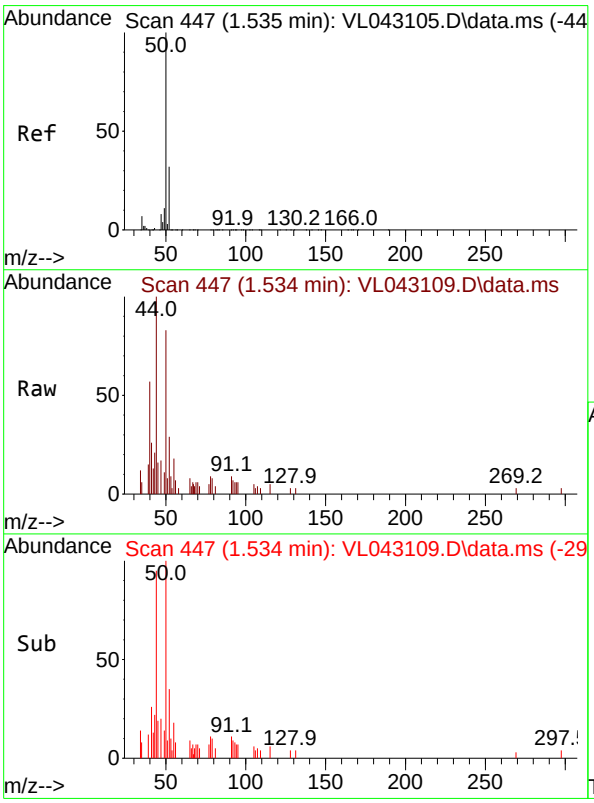
#3
Chlorodifluoromethane
Concen: 0.111 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 51 Resp: 1709

Ion	Ratio	Lower	Upper
51	100		
67	30.1	15.1	22.7#

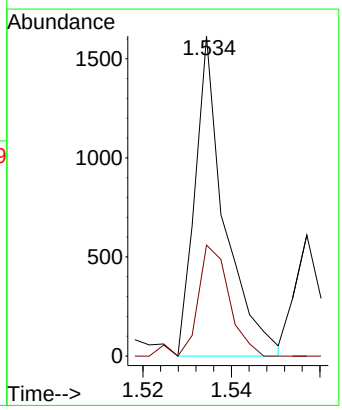


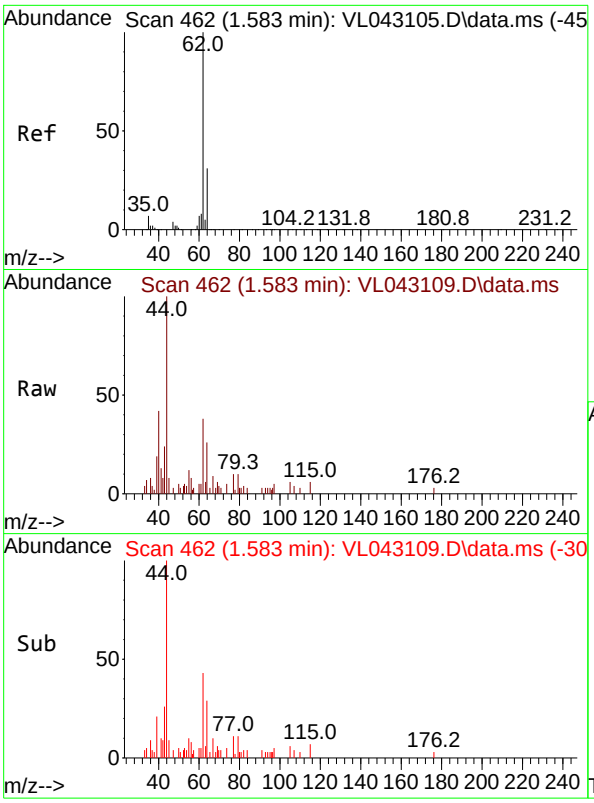


#4
Chloromethane
Concen: 0.132 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 50 Resp: 746

Ion	Ratio	Lower	Upper
50	100		
52	34.7	25.2	37.8



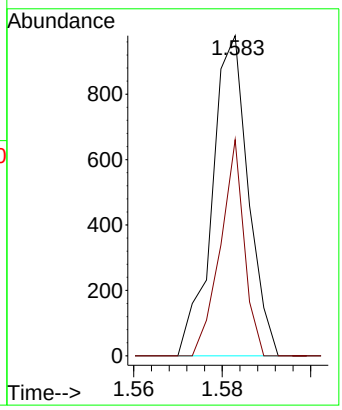


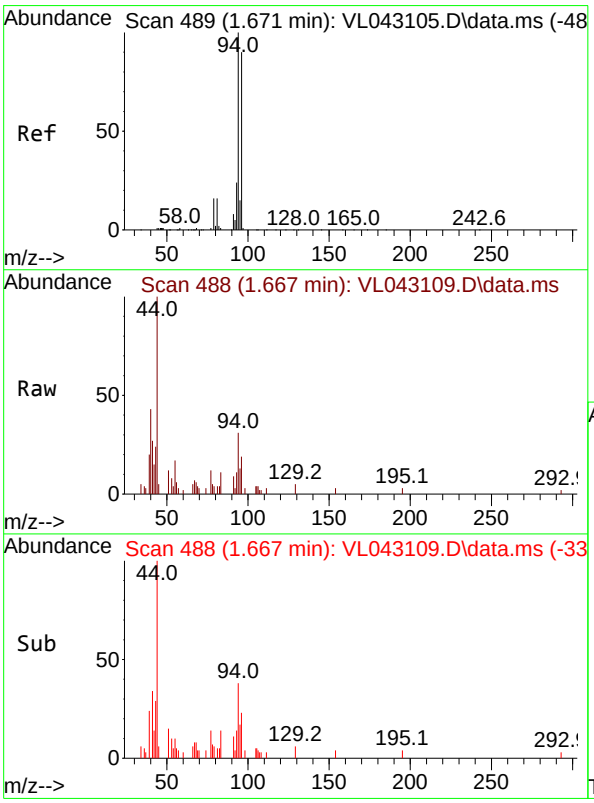
#5
Vinyl Chloride
Concen: 0.100 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 554

Ion	Ratio	Lower	Upper
62	100		
64	67.5	24.6	36.8#

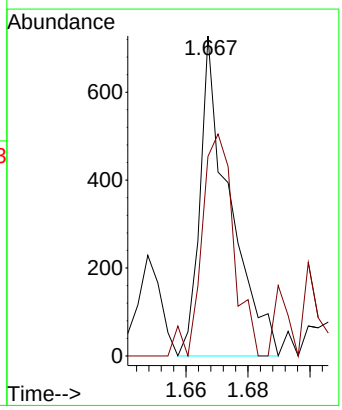


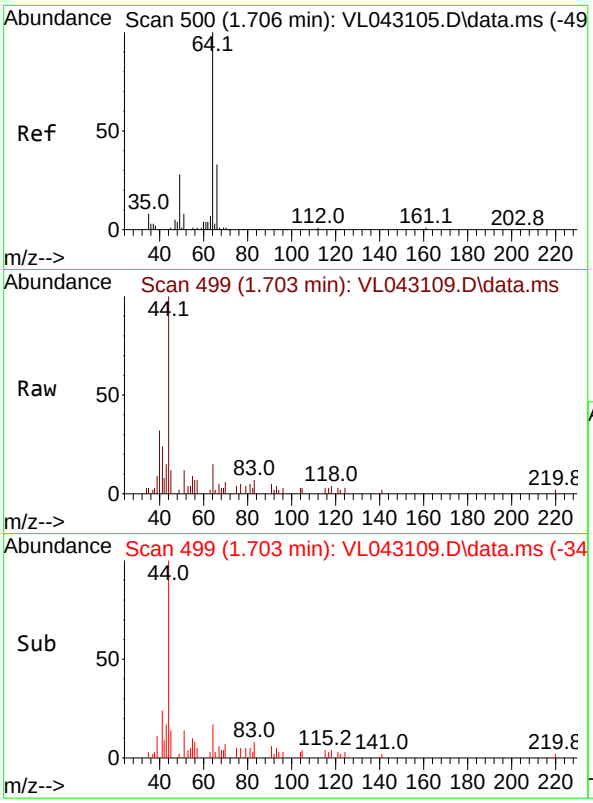


#6
Bromomethane
Concen: 0.158 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 94 Resp: 479

Ion	Ratio	Lower	Upper
94	100		
96	53.0	72.2	108.4#



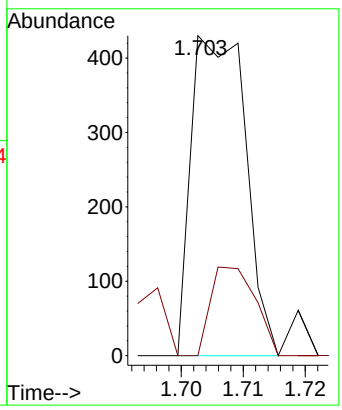


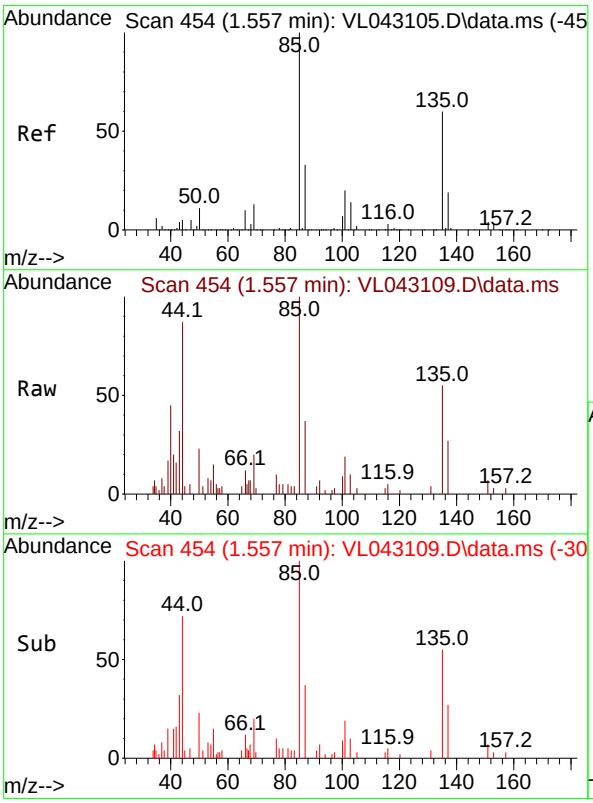
#7
Chloroethane
Concen: 0.116 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 64 Resp: 261

Ion	Ratio	Lower	Upper
64	100		
66	0.0	26.0	39.0#

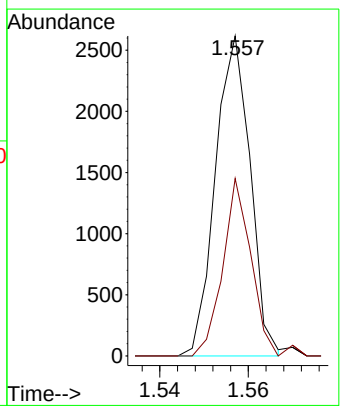


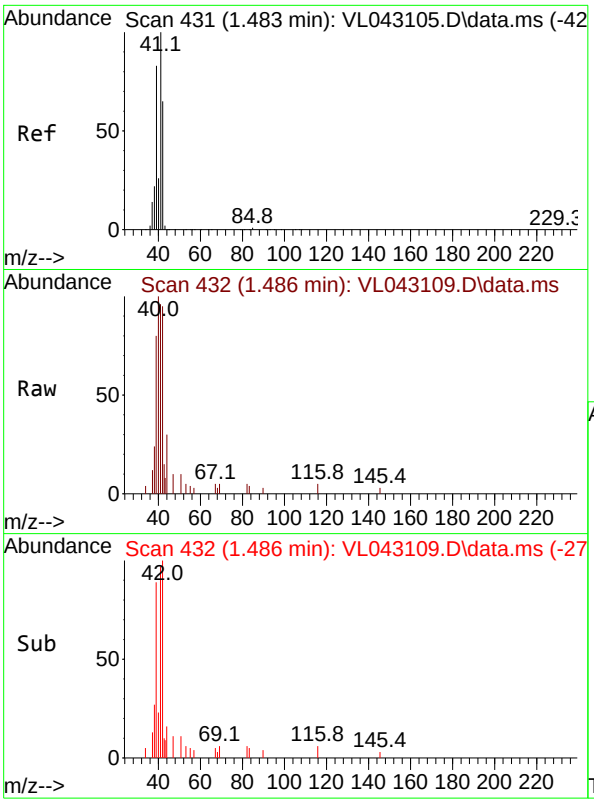


#8
Dichlorotetrafluoroethane
Concen: 0.124 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 85 Resp: 1427

Ion	Ratio	Lower	Upper
85	100		
135	48.7	48.2	72.4



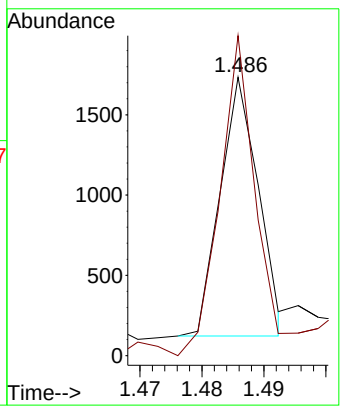


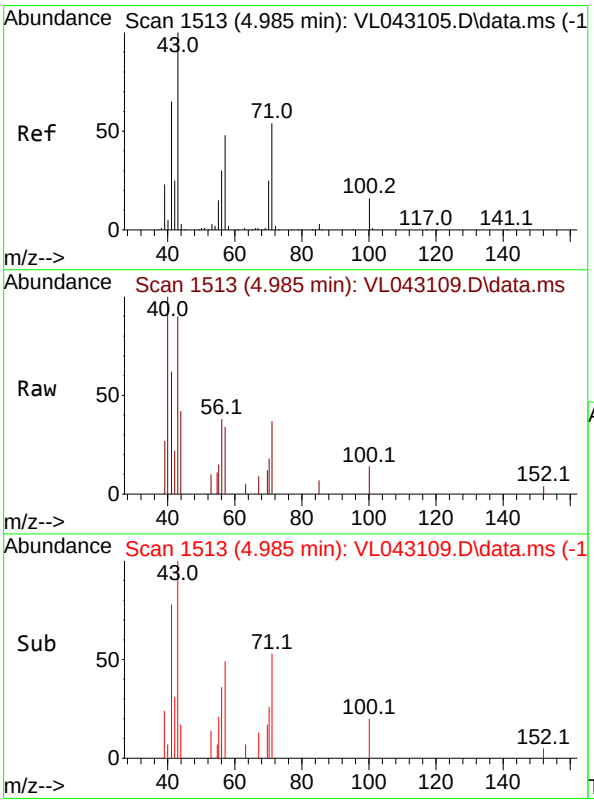
#9
Propene
Concen: 0.101 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 689

Ion	Ratio	Lower	Upper
41	100		
42	168.5	55.1	82.7#

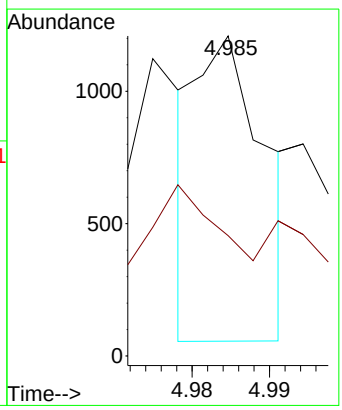


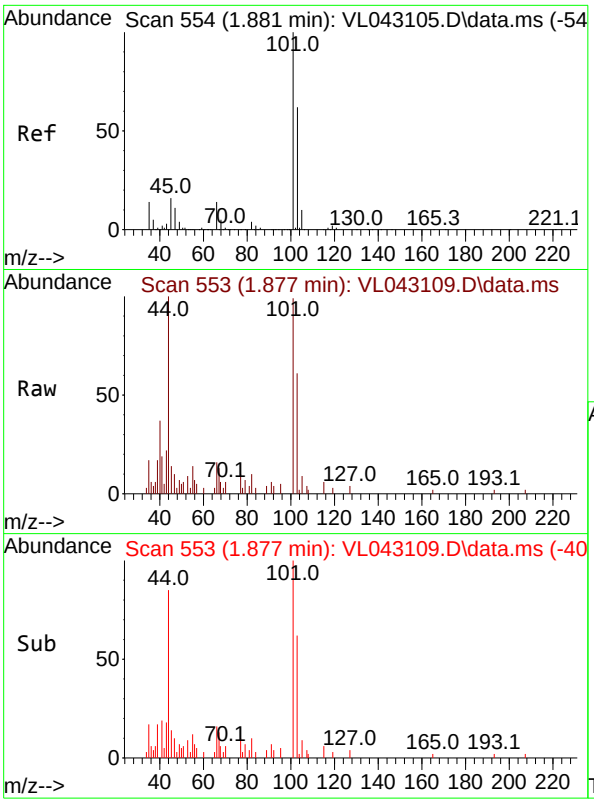


#10
Heptane
Concen: 0.036 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 43 Resp: 706

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.8	61.2#



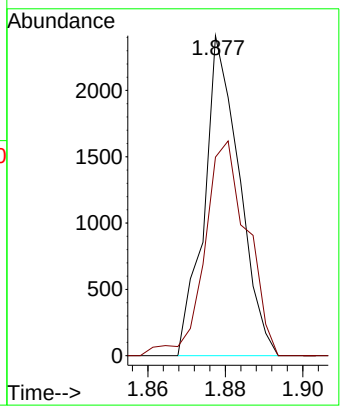


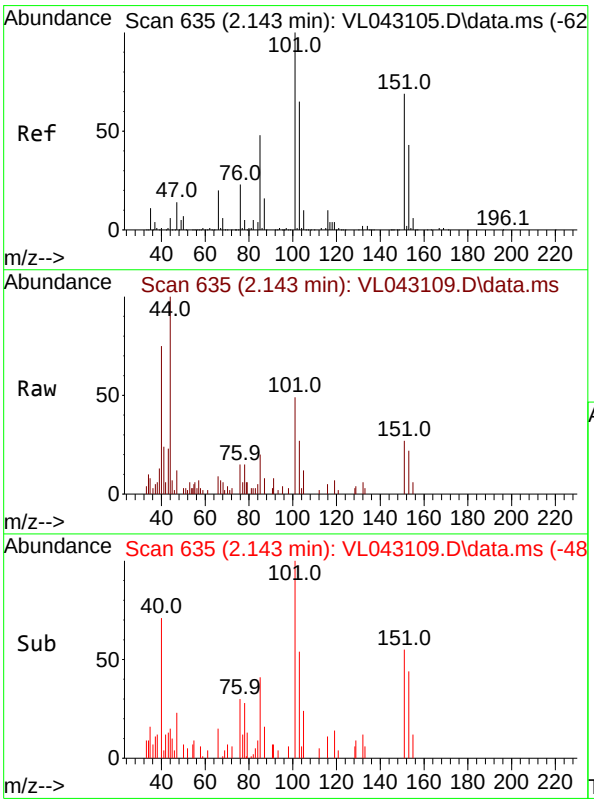
#11
Trichlorofluoromethane
Concen: 0.109 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:101 Resp: 1515

Ion	Ratio	Lower	Upper
101	100		
103	62.1	49.3	73.9

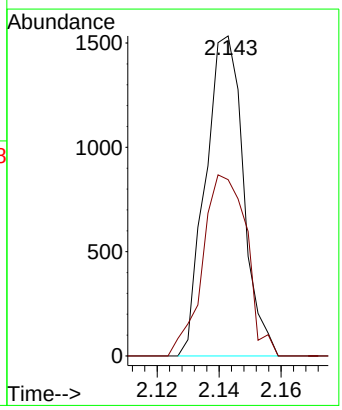


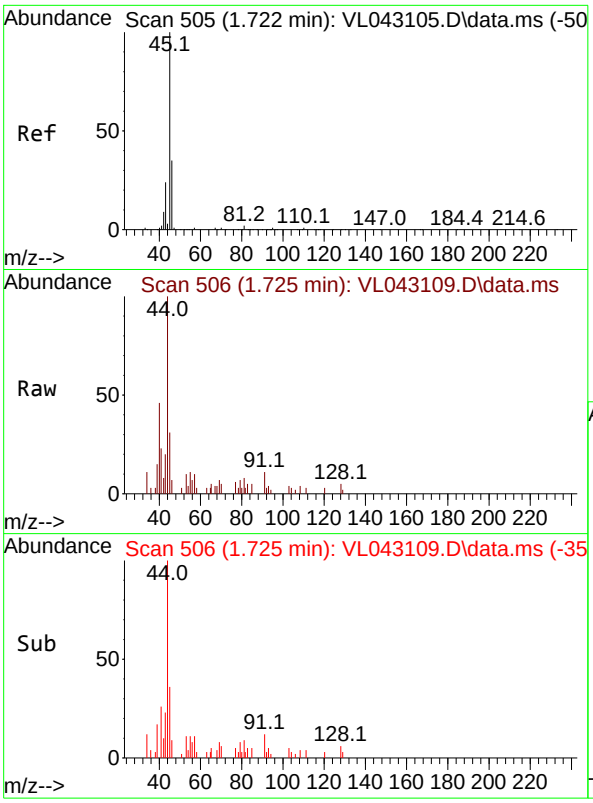


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.116 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:101 Resp: 1303

Ion	Ratio	Lower	Upper
101	100		
151	65.7	54.7	82.1



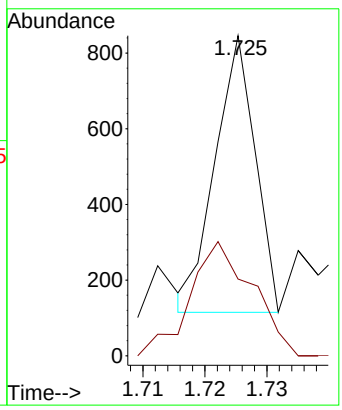


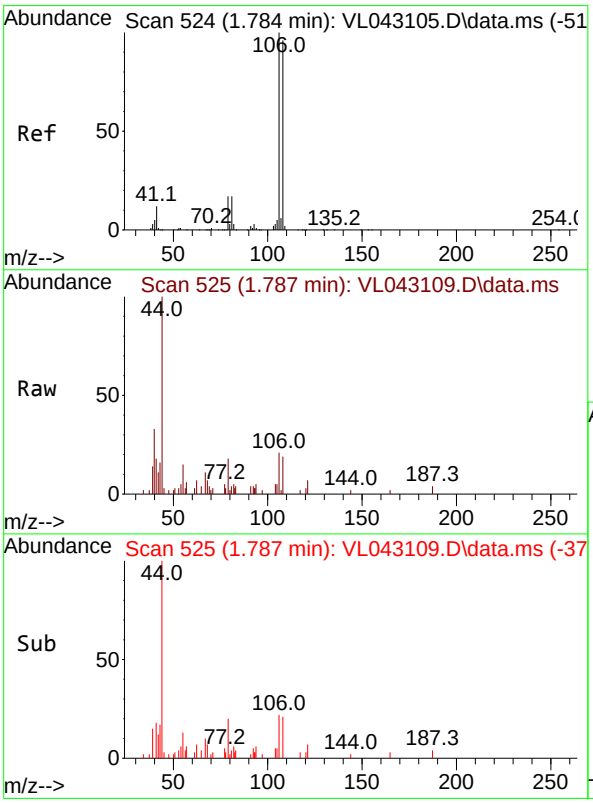
#13
Ethanol
Concen: 0.130 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 327

Ion	Ratio	Lower	Upper
45	100		
46	80.1	14.7	58.9#

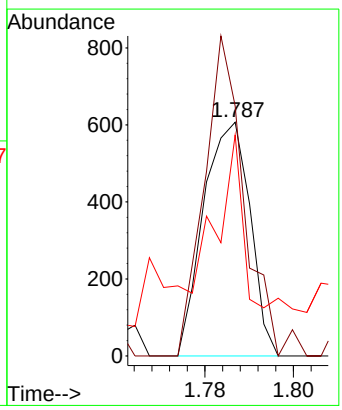


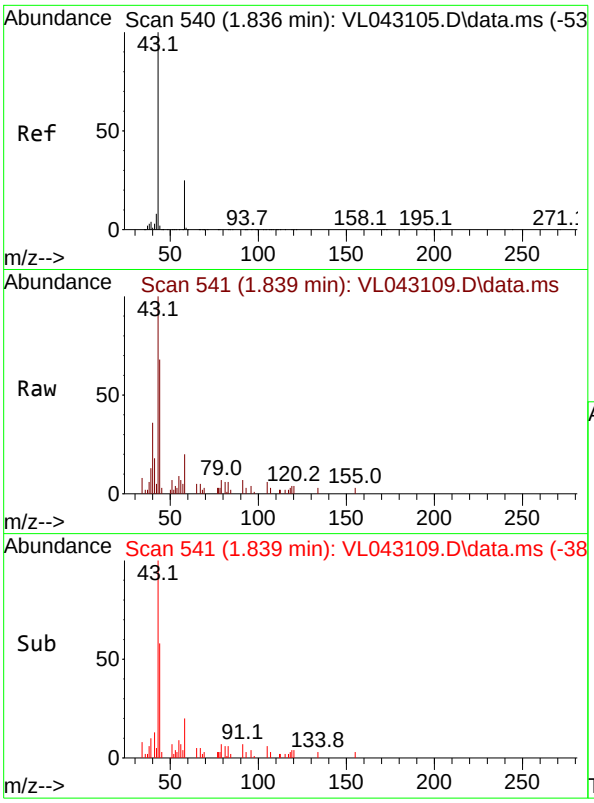


#14
Bromoethene
Concen: 0.107 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:108 Resp: 443

Ion	Ratio	Lower	Upper
108	100		
106	133.2	84.4	126.6#
79	99.1	15.3	22.9#



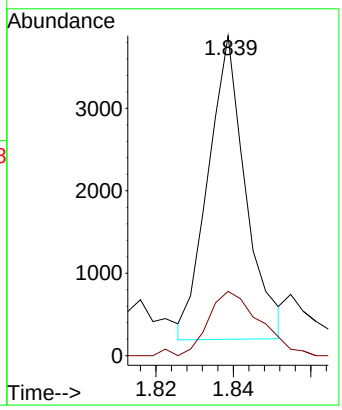


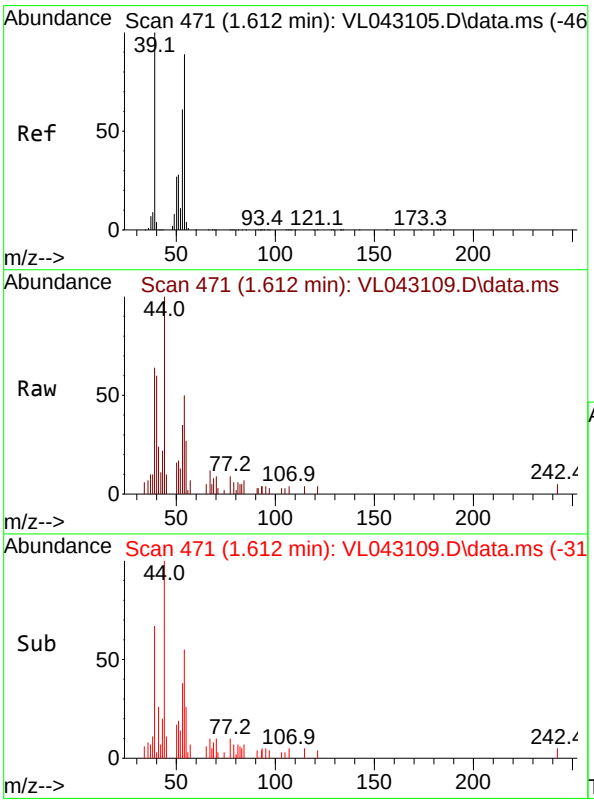
#15
Acetone
Concen: 0.184 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 2487

Ion	Ratio	Lower	Upper
43	100		
58	29.5	20.8	31.2

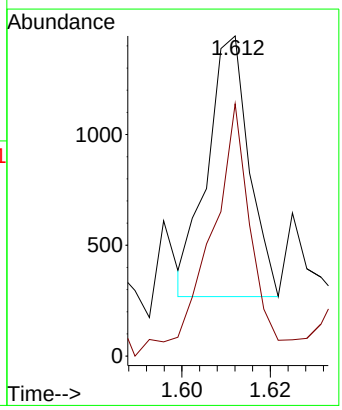


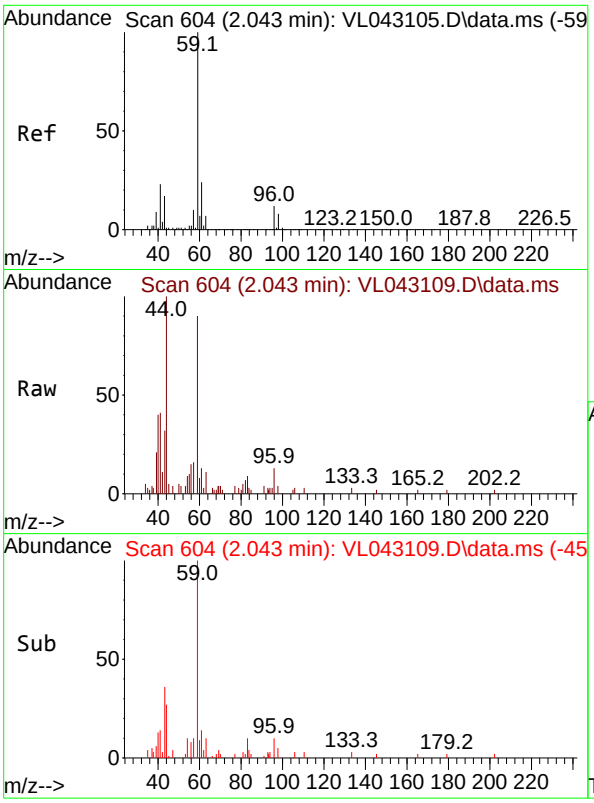


#16
1,3-Butadiene
Concen: 0.120 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 39 Resp: 770

Ion	Ratio	Lower	Upper
39	100		
54	116.8	59.0	88.4#



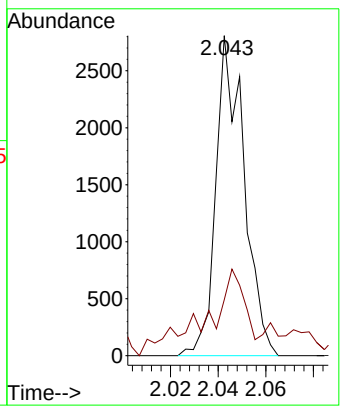


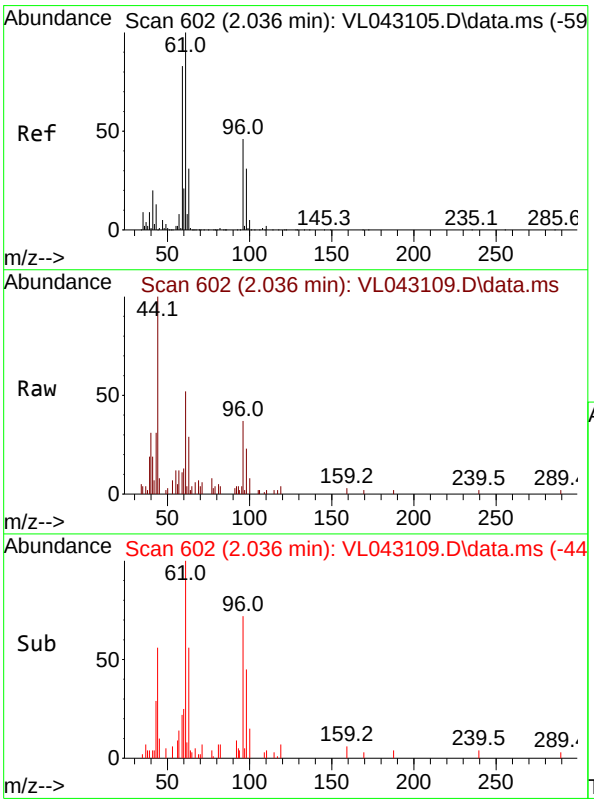
#17
tert-Butyl alcohol
Concen: 0.124 ppbv
RT: 2.043 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 59 Resp: 2301

Ion	Ratio	Lower	Upper
59	100		
57	46.6	8.2	12.4#

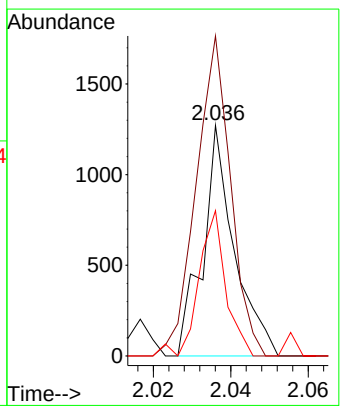


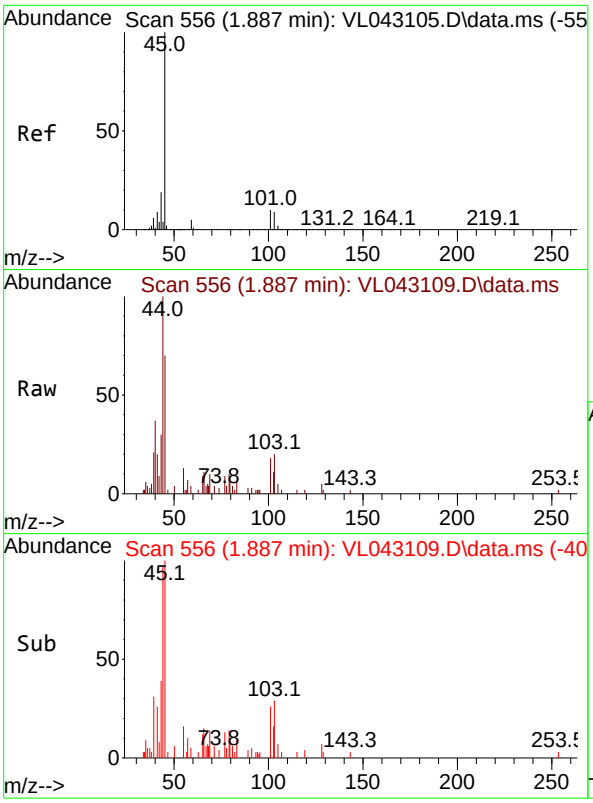


#18
1,1-Dichloroethene
Concen: 0.148 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 96 Resp: 720

Ion	Ratio	Lower	Upper
96	100		
61	149.8	173.4	260.0#
98	63.0	53.2	79.8



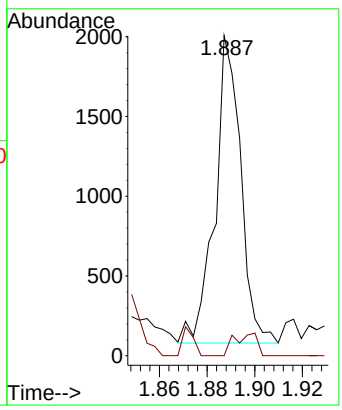


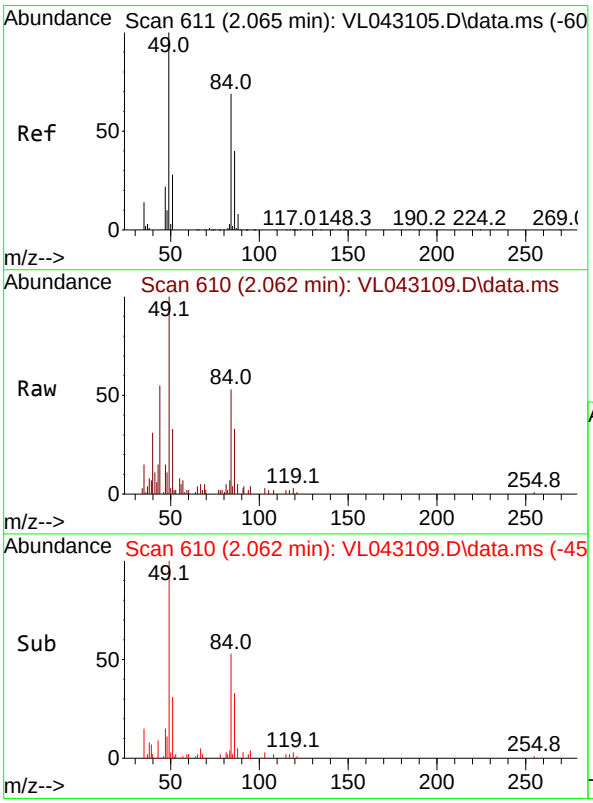
#19
Isopropyl Alcohol
Concen: 0.172 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 1443

Ion	Ratio	Lower	Upper
45	100		
58	10.5	31.3	46.9#

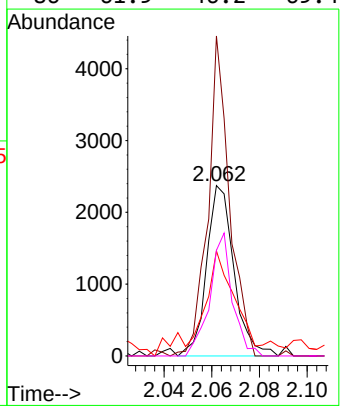


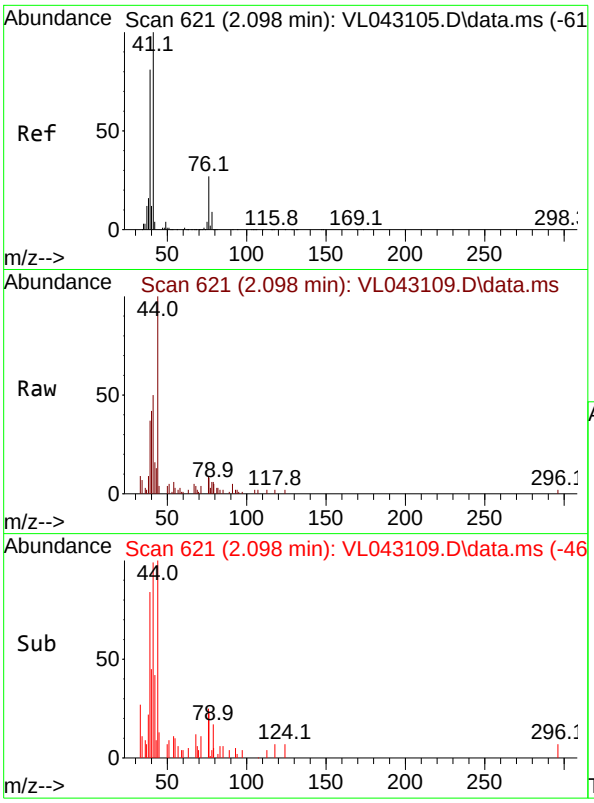


#20
Methylene Chloride
Concen: 0.355 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 84 Resp: 1890

Ion	Ratio	Lower	Upper
84	100		
49	183.9	116.6	175.0#
51	55.8	34.8	52.2#
86	61.9	46.2	69.4



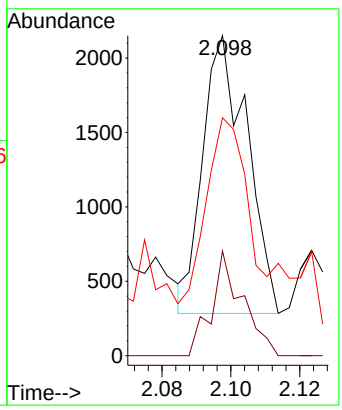


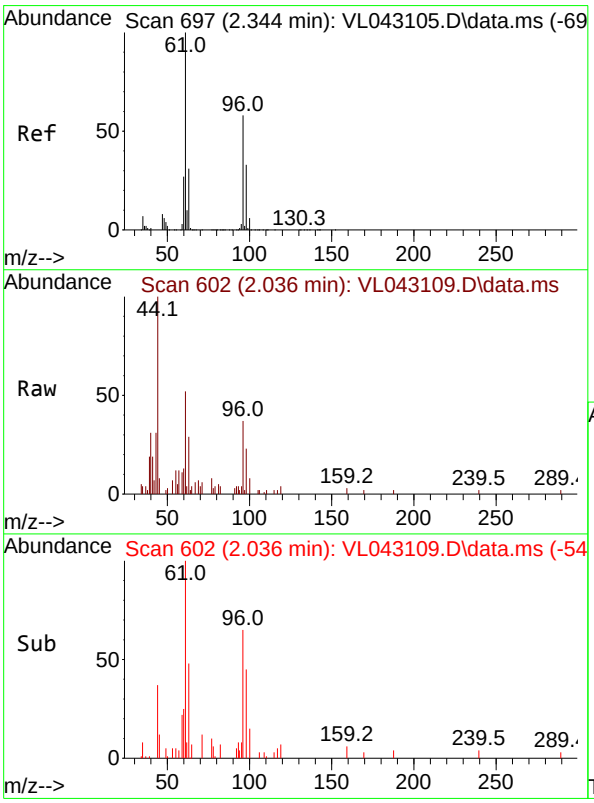
#21
Allyl Chloride
Concen: 0.167 ppbv
RT: 2.098 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 1664

Ion	Ratio	Lower	Upper
41	100		
76	26.4	21.5	32.3
39	142.1	60.8	91.2#

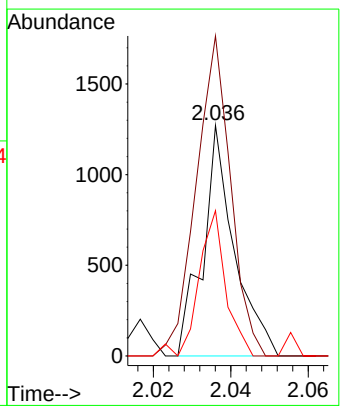


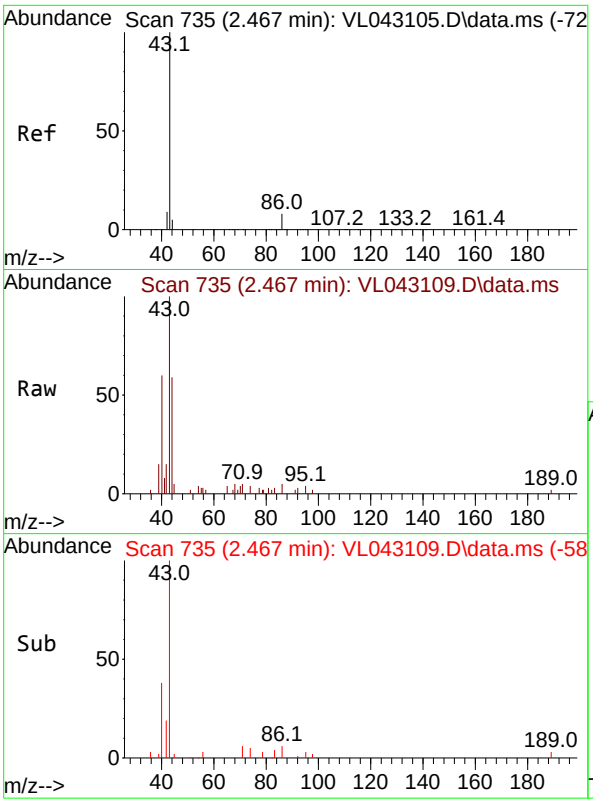


#22
trans-1,2-Dichloroethene
Concen: 0.123 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.308 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 96 Resp: 720

Ion	Ratio	Lower	Upper
96	100		
61	149.8	137.0	205.6
98	63.0	45.5	68.3



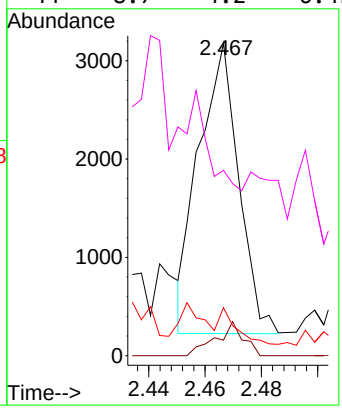


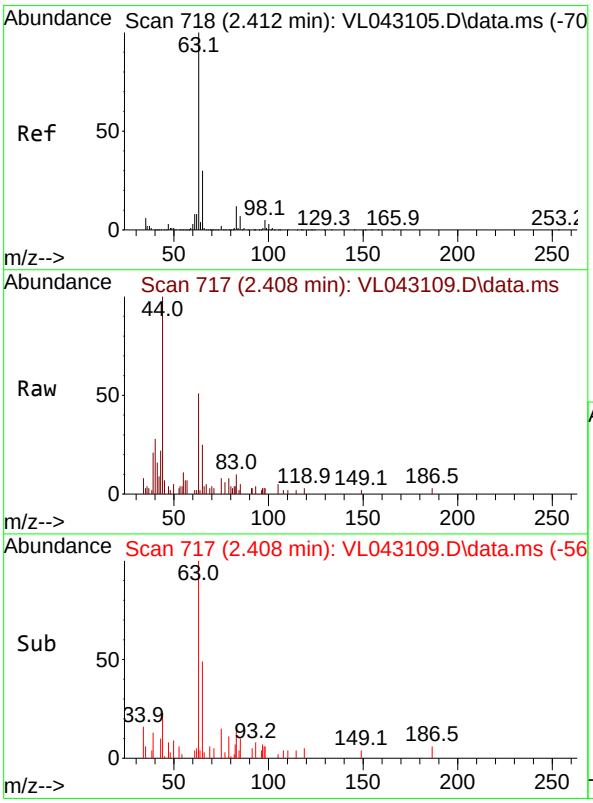
#23
Vinyl Acetate
Concen: 0.148 ppbv
RT: 2.467 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 2916

Ion	Ratio	Lower	Upper
43	100		
86	5.4	6.2	9.2#
42	5.5	7.6	11.4#
44	8.7	4.2	6.4#

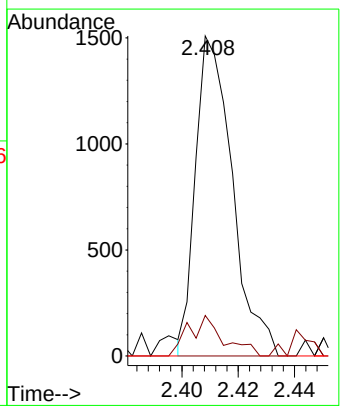


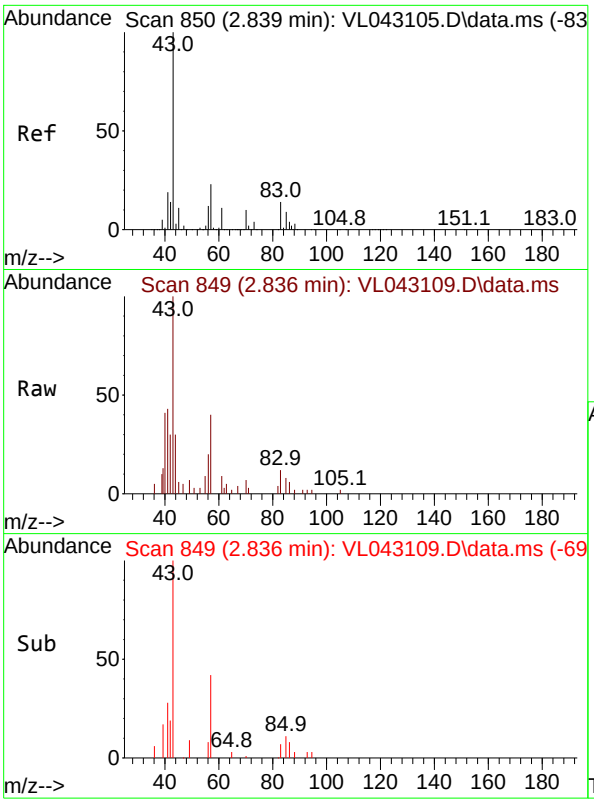


#24
1,1-Dichloroethane
Concen: 0.121 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 63 Resp: 1367

Ion	Ratio	Lower	Upper
63	100		
98	8.5	2.6	7.8#
100	0.0	1.5	4.4#



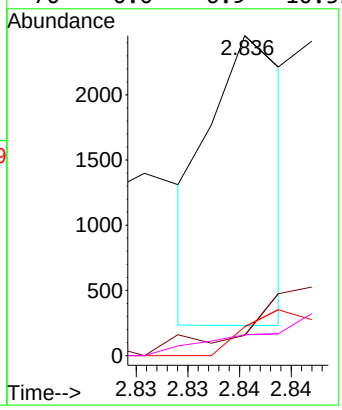


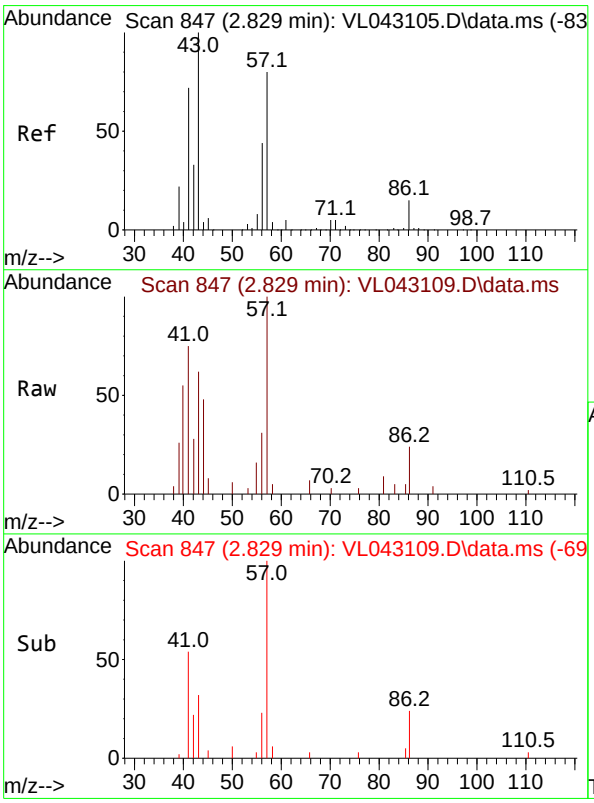
#25
Ethyl Acetate
Concen: 0.033 ppbv
RT: 2.836 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 1114

Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	27.3	7.0	10.6#
70	0.0	6.9	10.3#

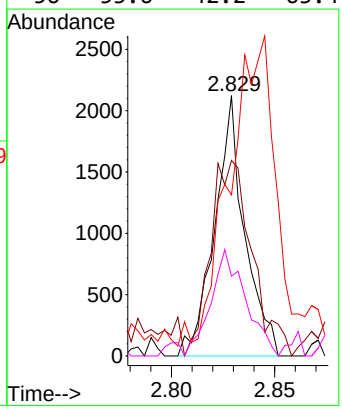


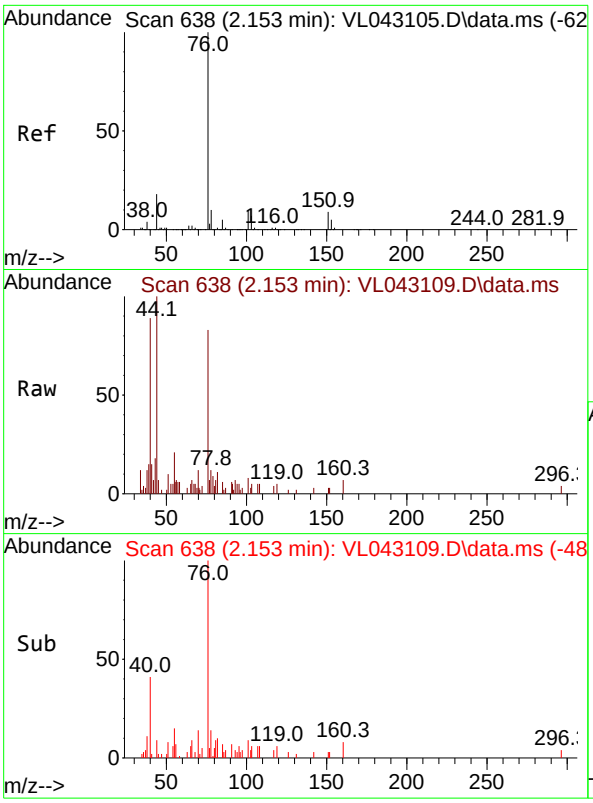


#26
Hexane
Concen: 0.139 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 57 Resp: 2134

Ion	Ratio	Lower	Upper
57	100		
41	106.3	71.4	107.0
43	219.9	178.5	267.7
56	53.6	42.2	63.4



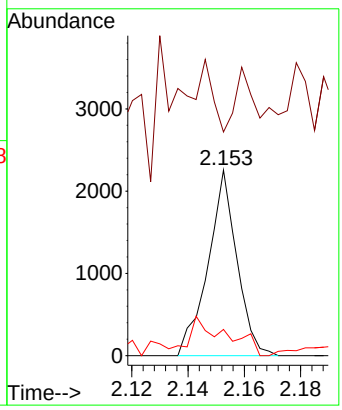


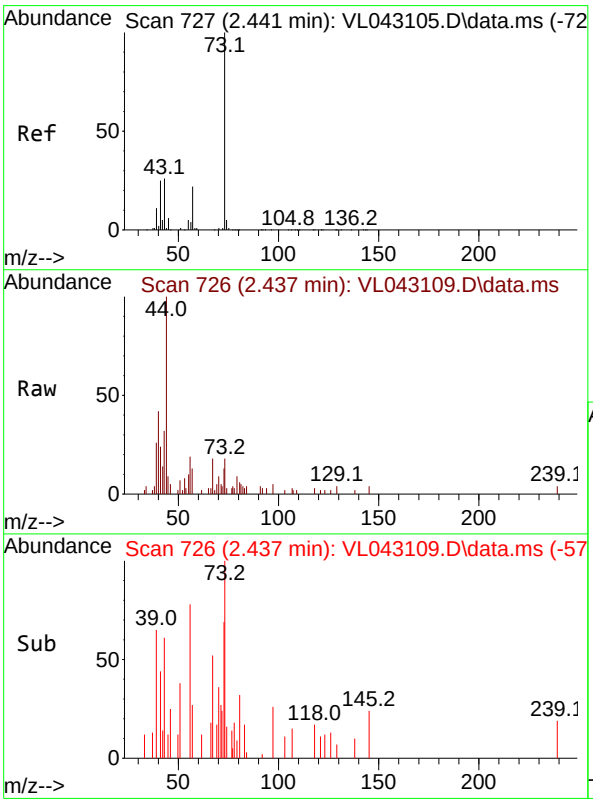
#27
Carbon Disulfide
Concen: 0.114 ppbv
RT: 2.153 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 76 Resp: 1609

Ion	Ratio	Lower	Upper
76	100		
44	164.6	16.7	25.1#
78	37.2	9.3	13.9#

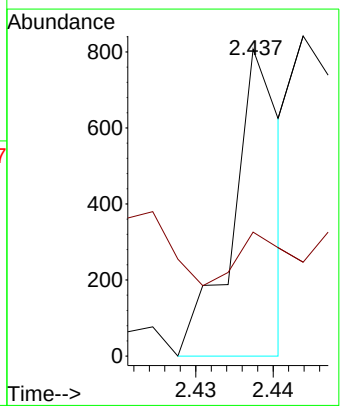


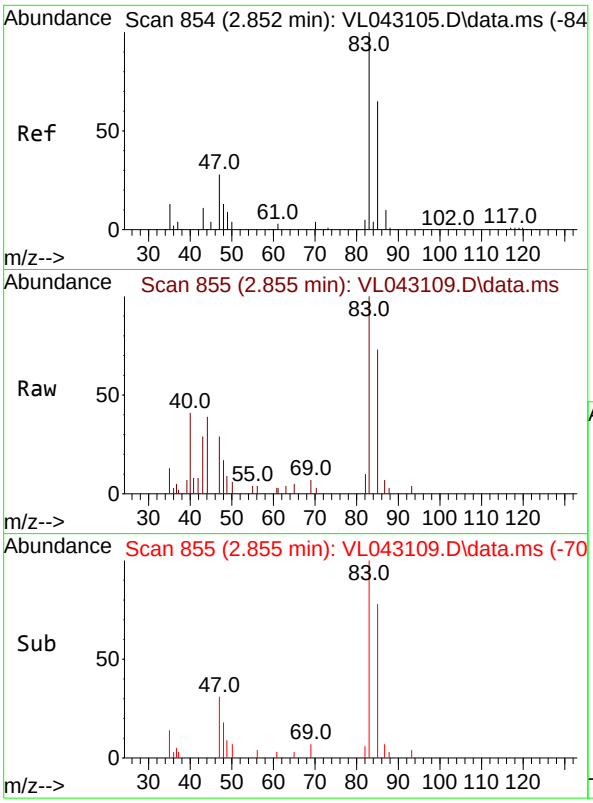


#28
Methyl tert-Butyl Ether
Concen: 0.050 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 73 Resp: 351

Ion	Ratio	Lower	Upper
73	100		
57	0.0	20.5	30.7#



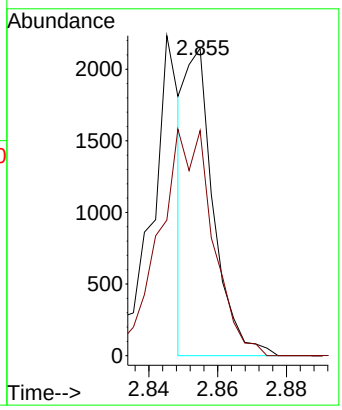


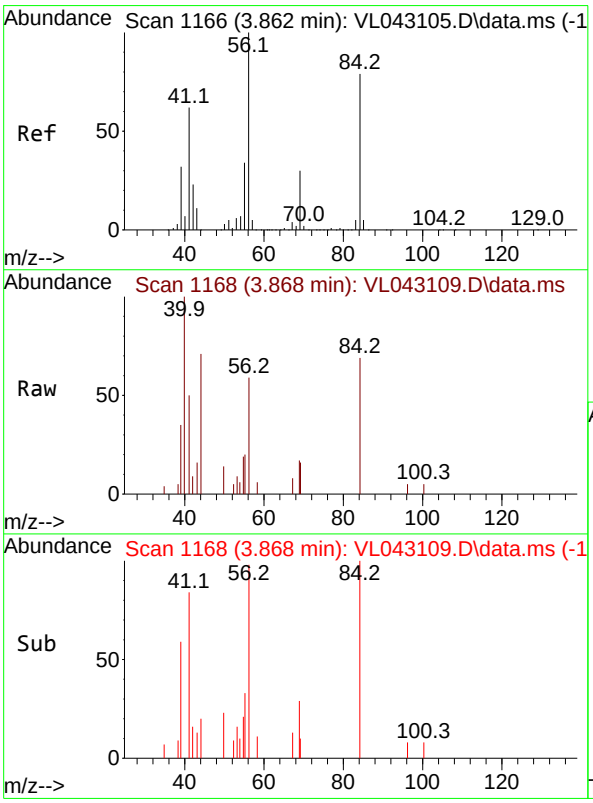
#29
Chloroform
Concen: 0.055 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 1225

Ion	Ratio	Lower	Upper
83	100		
85	73.3	51.8	77.6

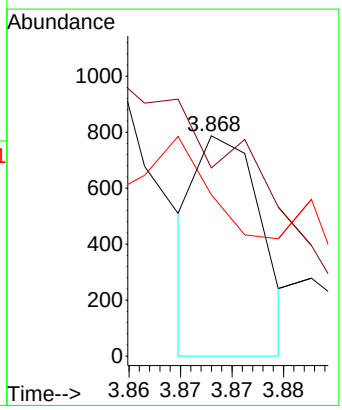


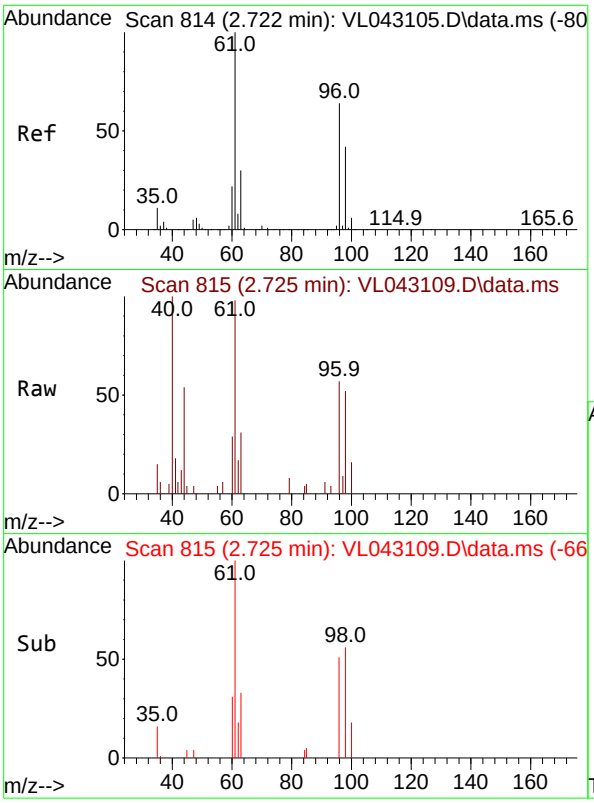


#30
Cyclohexane
Concen: 0.025 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 84 Resp: 340

Ion	Ratio	Lower	Upper
84	100		
56	0.0	100.9	151.3#
41	578.5	63.8	95.6#



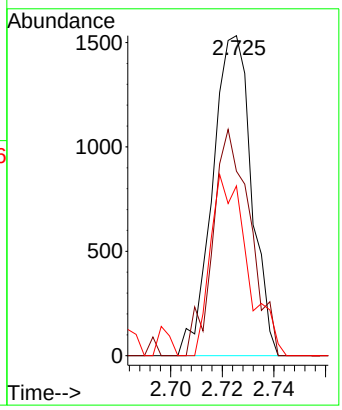


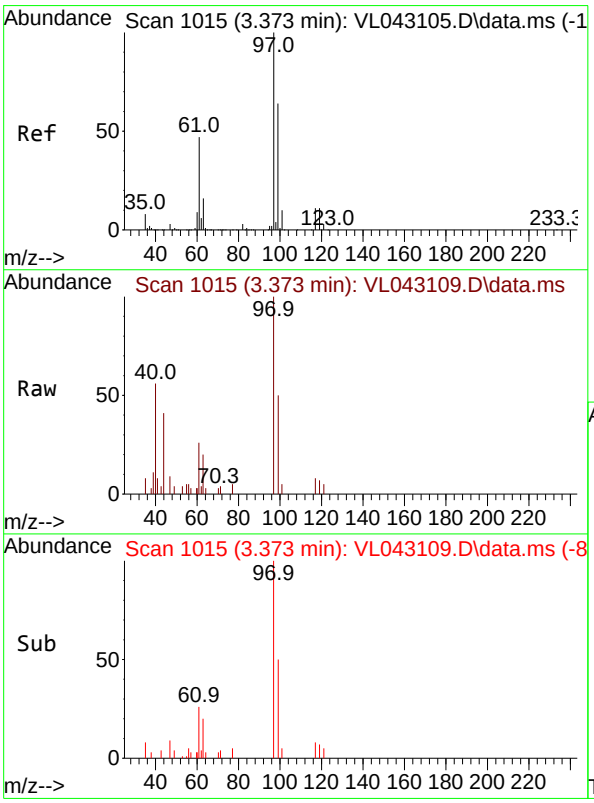
#31
cis-1,2-Dichloroethene
Concen: 0.109 ppbv
RT: 2.725 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 61 Resp: 1605

Ion	Ratio	Lower	Upper
61	100		
96	57.7	51.0	76.6
98	53.0	33.5	50.3#

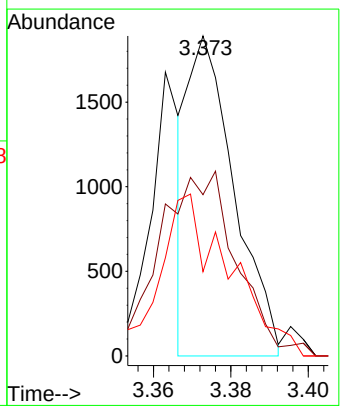


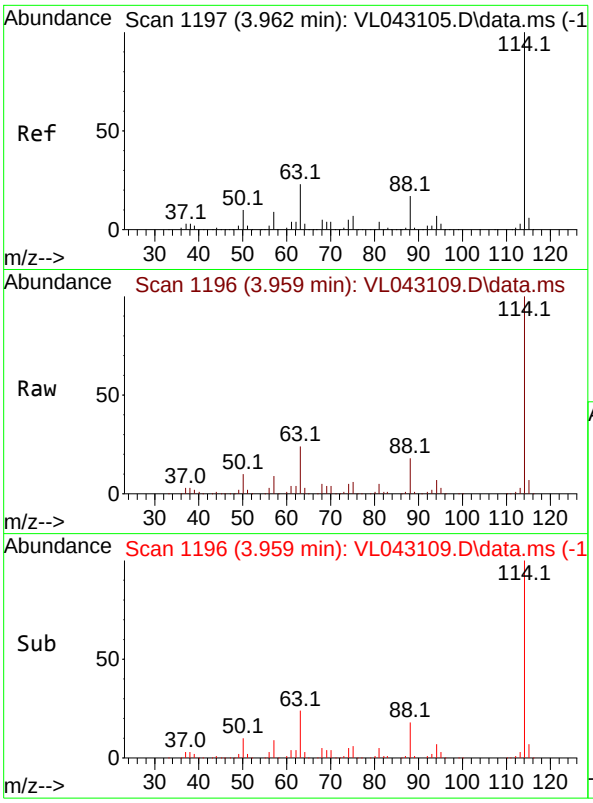


#32
1,1,1-Trichloroethane
Concen: 0.068 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 97 Resp: 1581

Ion	Ratio	Lower	Upper
97	100		
99	94.8	51.3	76.9#
61	76.3	38.4	57.6#



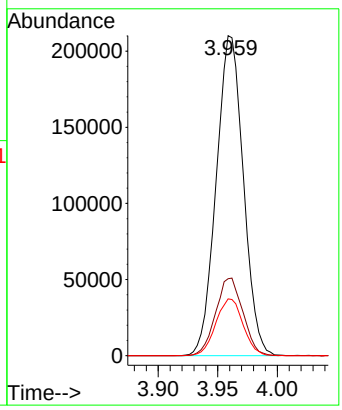


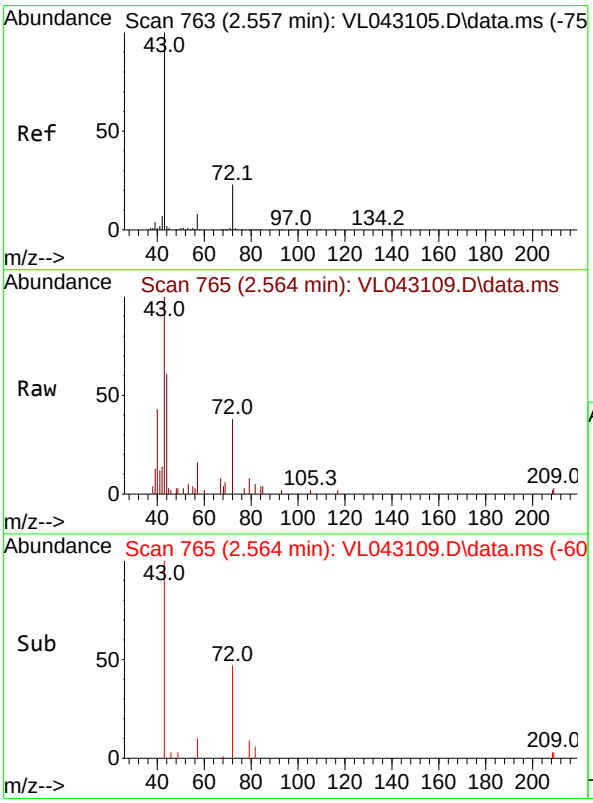
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:114 Resp: 332574

Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.3	28.9
88	17.9	13.9	20.9

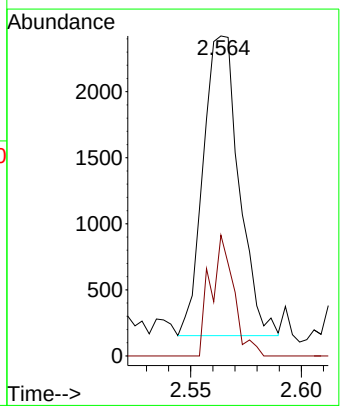


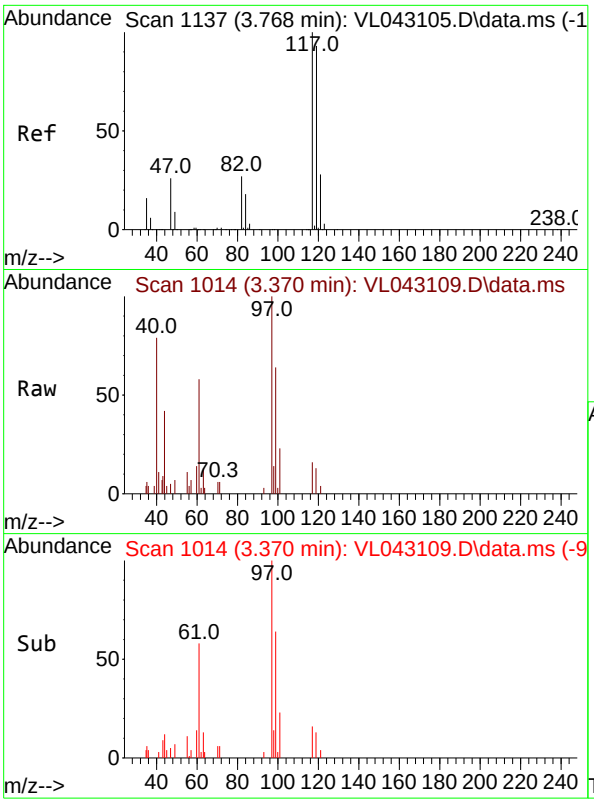


#34
2-Butanone
Concen: 0.114 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 43 Resp: 2560

Ion	Ratio	Lower	Upper
43	100		
72	26.1	18.4	27.6



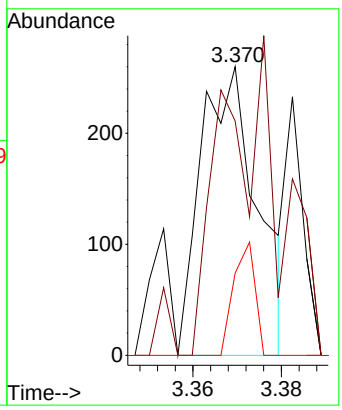


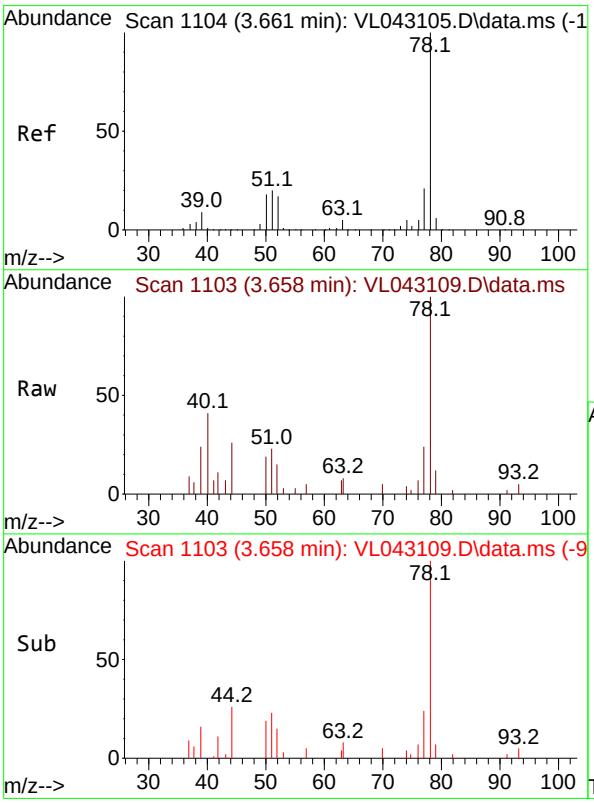
#35
Carbon Tetrachloride
Concen: 0.010 ppbv
RT: 3.370 min Scan# 1
Delta R.T. -0.398 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:117 Resp: 231

Ion	Ratio	Lower	Upper
117	100		
119	81.2	74.1	111.1
121	28.5	22.2	33.2

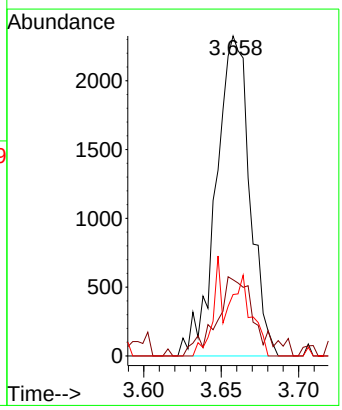


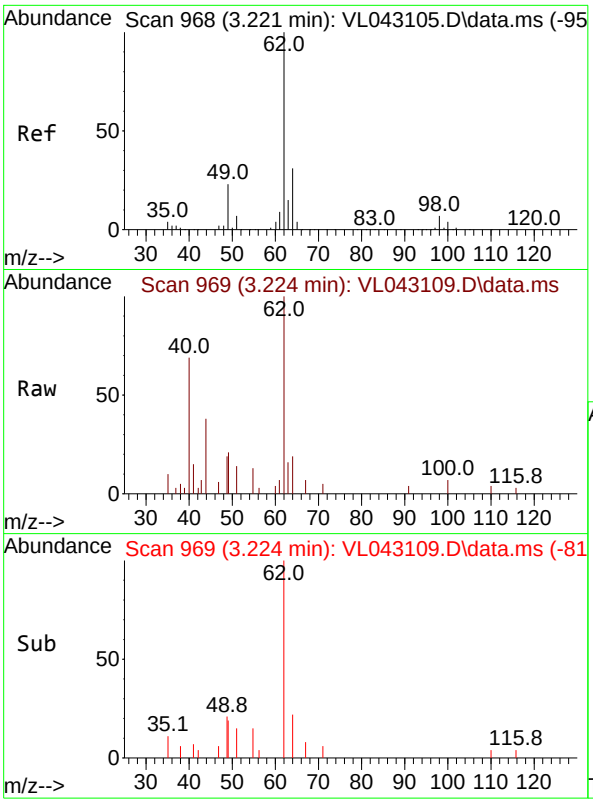


#36
Benzene
Concen: 0.112 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 78 Resp: 3507

Ion	Ratio	Lower	Upper
78	100		
77	23.8	17.0	25.6
50	19.2	14.6	22.0



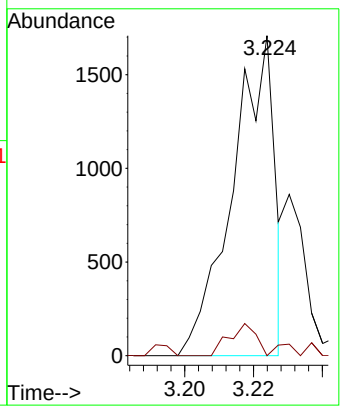


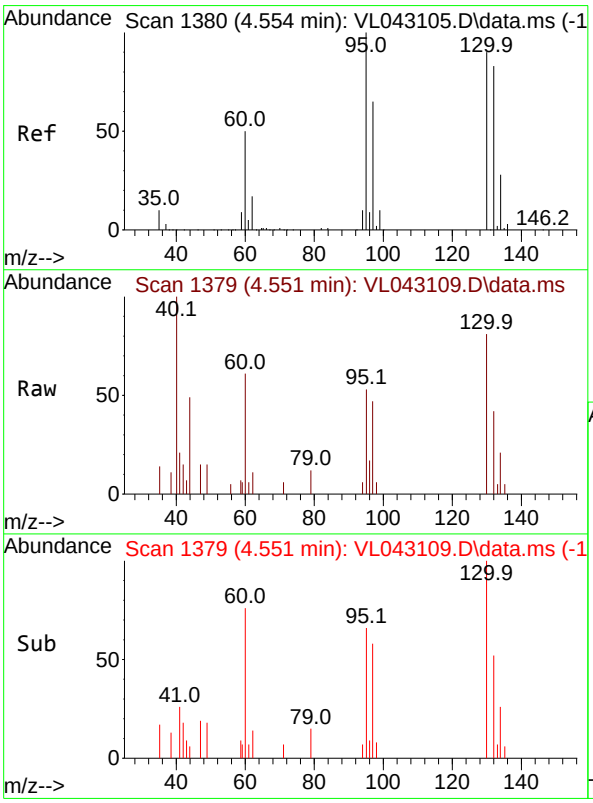
#37
1,2-Dichloroethane
Concen: 0.080 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 1448

Ion	Ratio	Lower	Upper
62	100		
98	9.5	5.8	8.6#

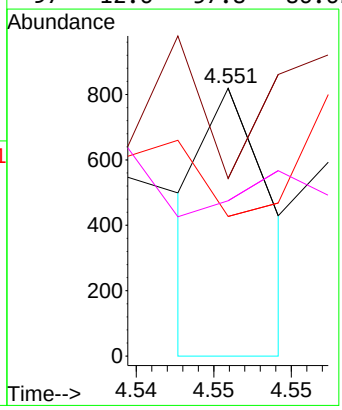


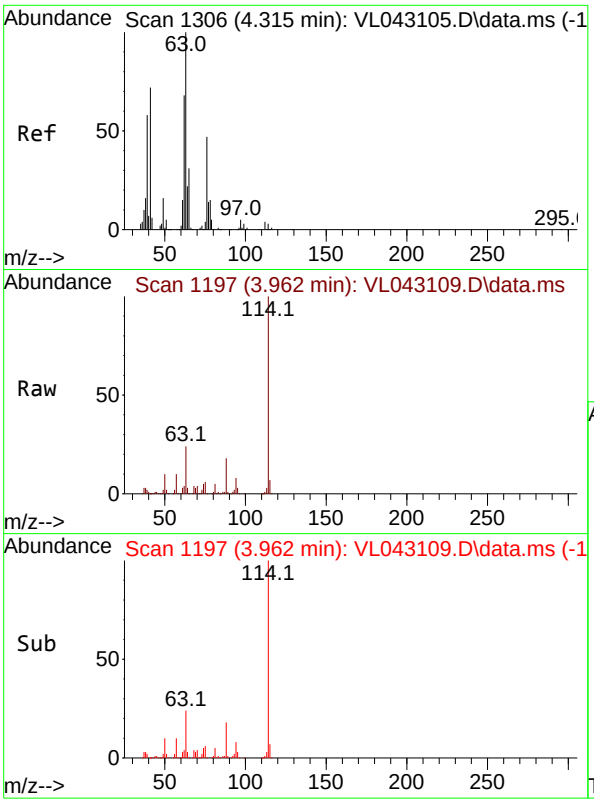


#38
Trichloroethene
Concen: 0.019 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:130 Resp: 242

Ion	Ratio	Lower	Upper
130	100		
95	0.0	88.6	133.0#
132	0.0	73.4	110.0#
97	12.6	57.8	86.6#



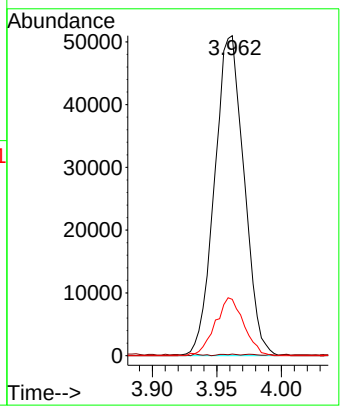


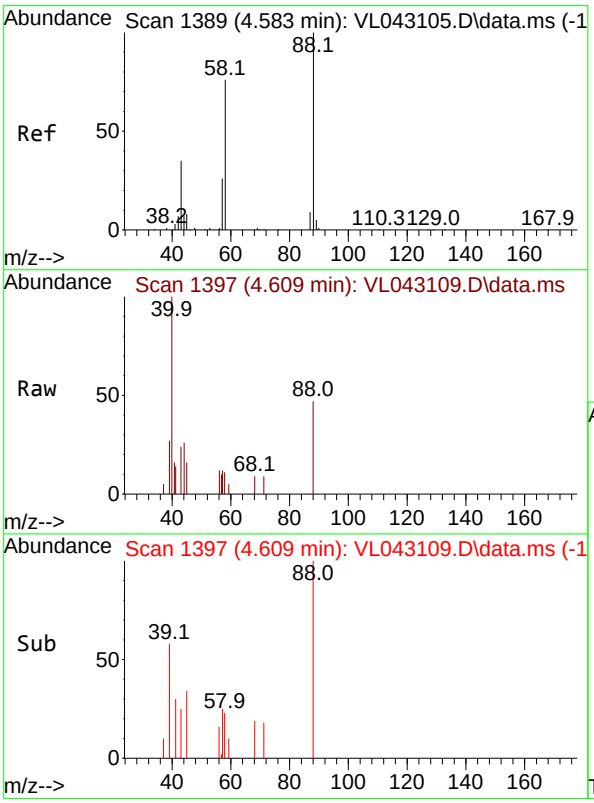
#39
1,2-Dichloropropane
Concen: 7.054 ppbv
RT: 3.962 min Scan# 1
Delta R.T. -0.353 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 63 Resp: 80849

Ion	Ratio	Lower	Upper
63	100		
41	0.5	58.0	87.0#
62	17.6	54.7	82.1#

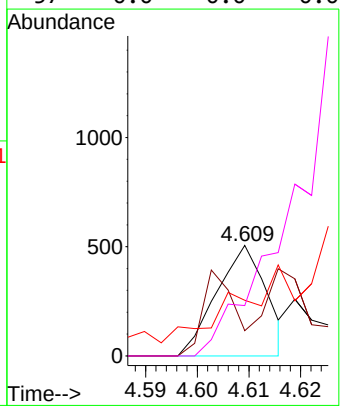


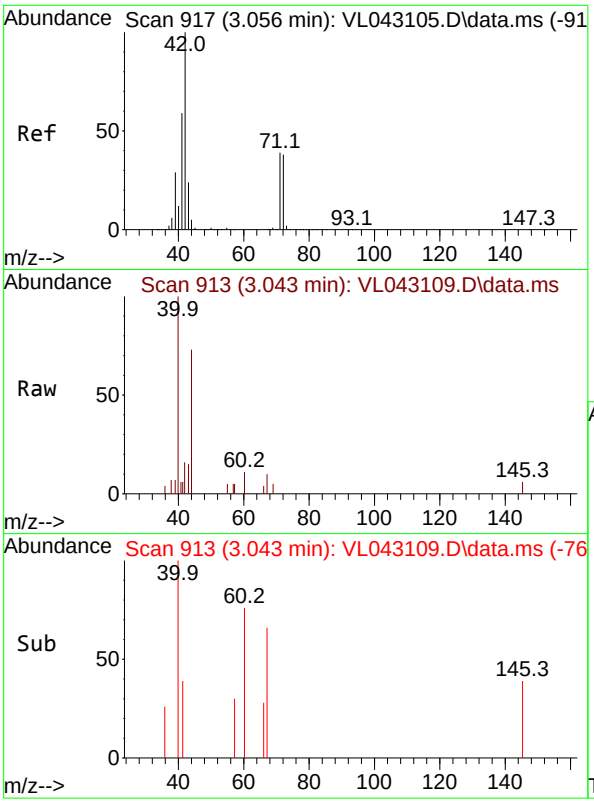


#40
1,4-Dioxane
Concen: 0.066 ppbv
RT: 4.609 min Scan# 1397
Delta R.T. 0.026 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 88 Resp: 339

Ion	Ratio	Lower	Upper
88	100		
58	14.2	61.1	91.7#
43	48.4	24.0	36.0#
57	0.0	0.0	0.0



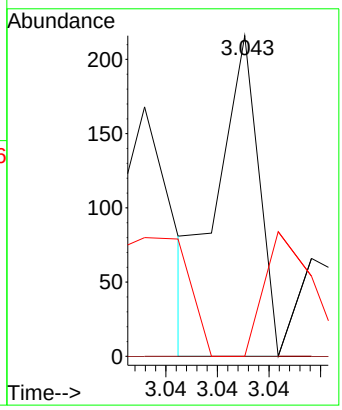


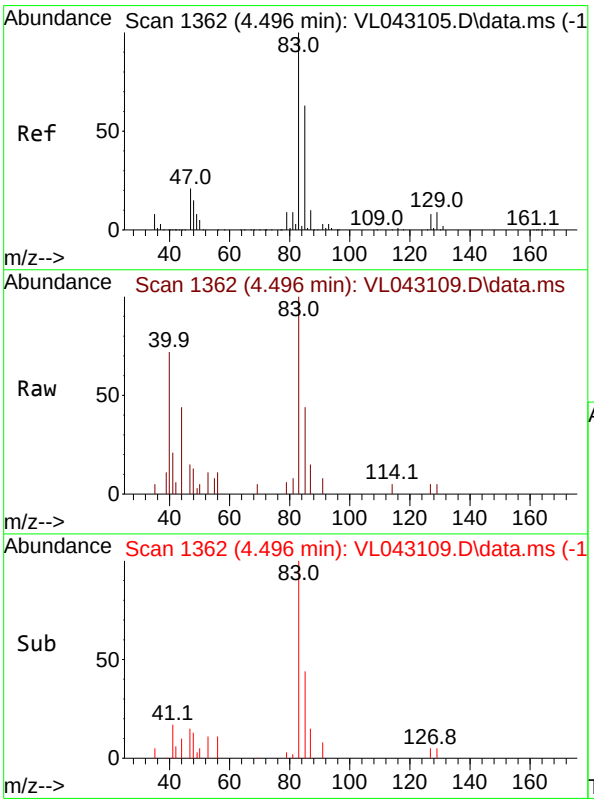
#41
Tetrahydrofuran
Concen: 0.005 ppbv
RT: 3.043 min Scan# 91
Delta R.T. -0.013 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 42 Resp: 58

Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.3	46.9#
71	0.0	30.4	45.6#

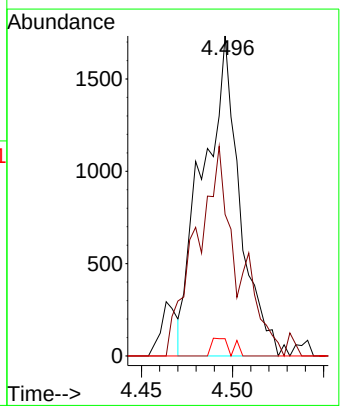


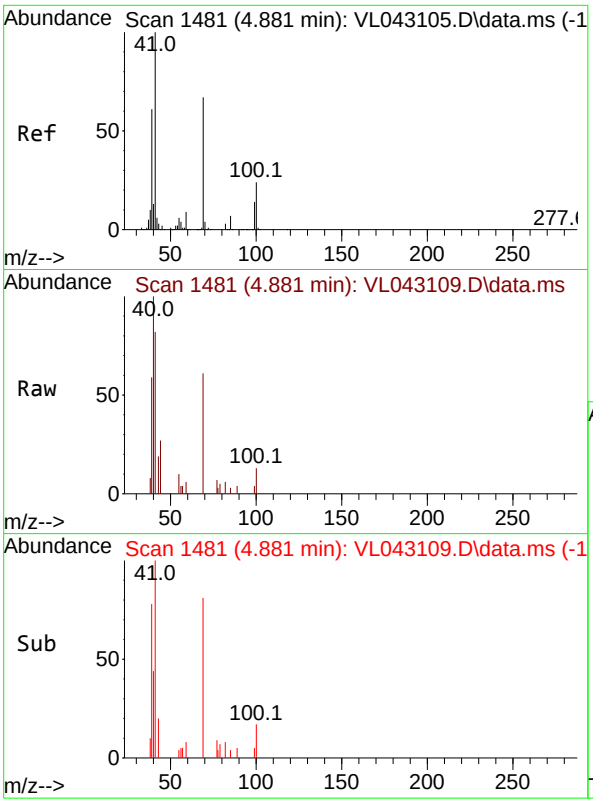


#42
Bromodichloromethane
Concen: 0.098 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 83 Resp: 2440

Ion	Ratio	Lower	Upper
83	100		
85	40.1	50.6	75.8#
127	5.4	6.3	9.5#



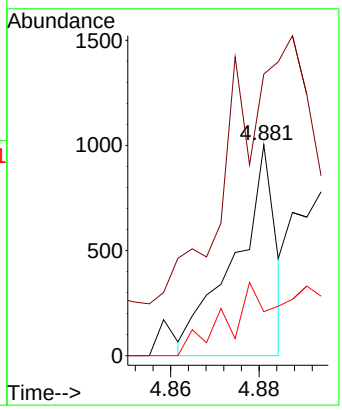


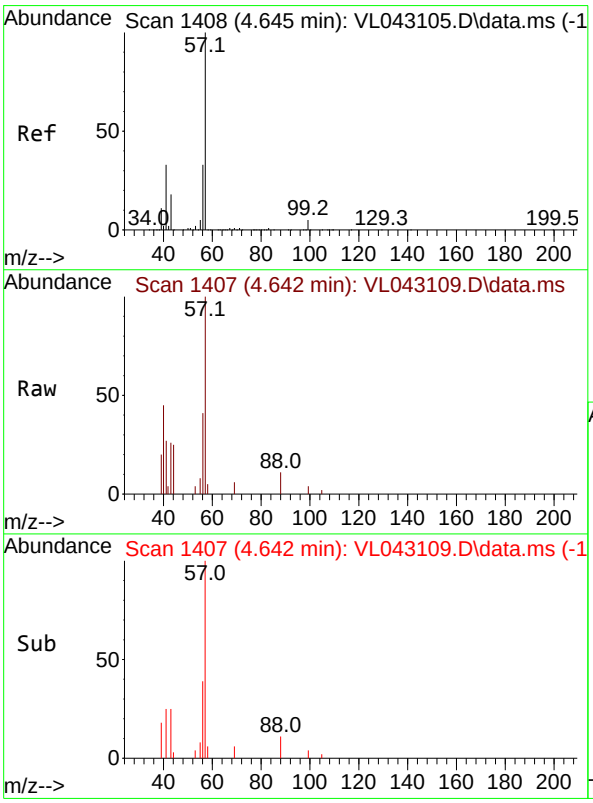
#43
Methyl Methacrylate
Concen: 0.040 ppbv
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 69 Resp: 636

Ion	Ratio	Lower	Upper
69	100		
41	0.0	120.5	180.7#
100	0.0	29.0	43.4#

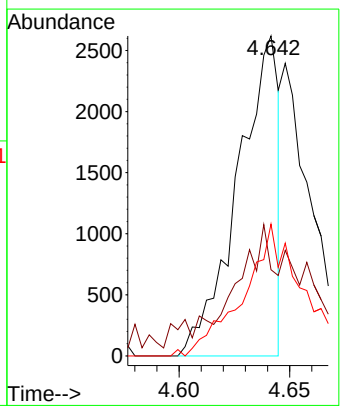


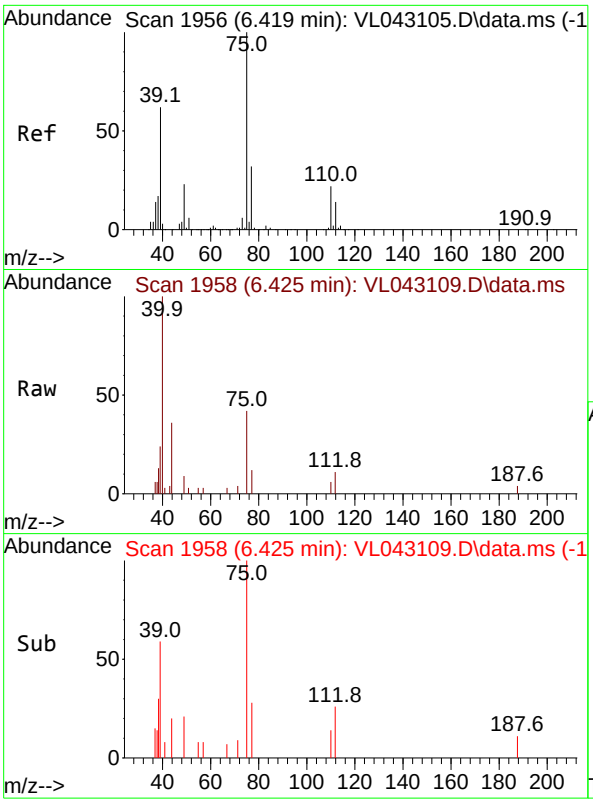


#44
2,2,4-Trimethylpentane
Concen: 0.064 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 57 Resp: 3354

Ion	Ratio	Lower	Upper
57	100		
41	68.1	26.3	39.5#
56	59.0	25.9	38.9#



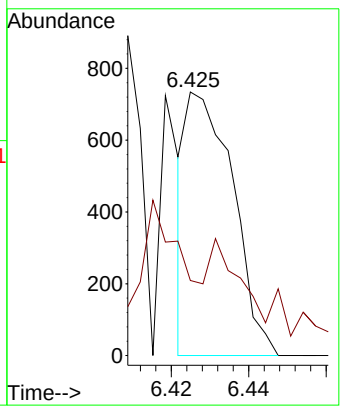


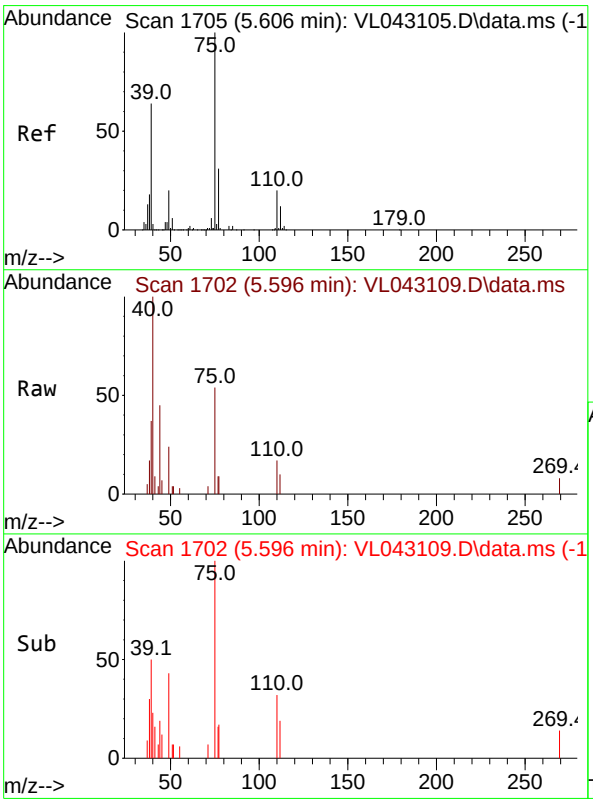
#45
t-1,3-Dichloropropene
Concen: 0.039 ppbv
RT: 6.425 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 75 Resp: 617

Ion	Ratio	Lower	Upper
75	100		
77	28.5	25.4	38.2

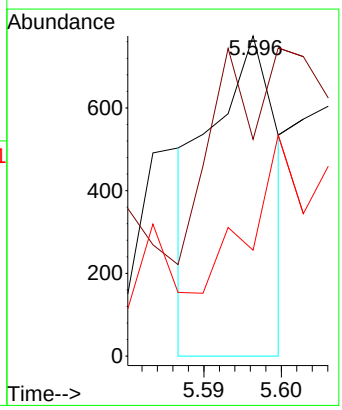


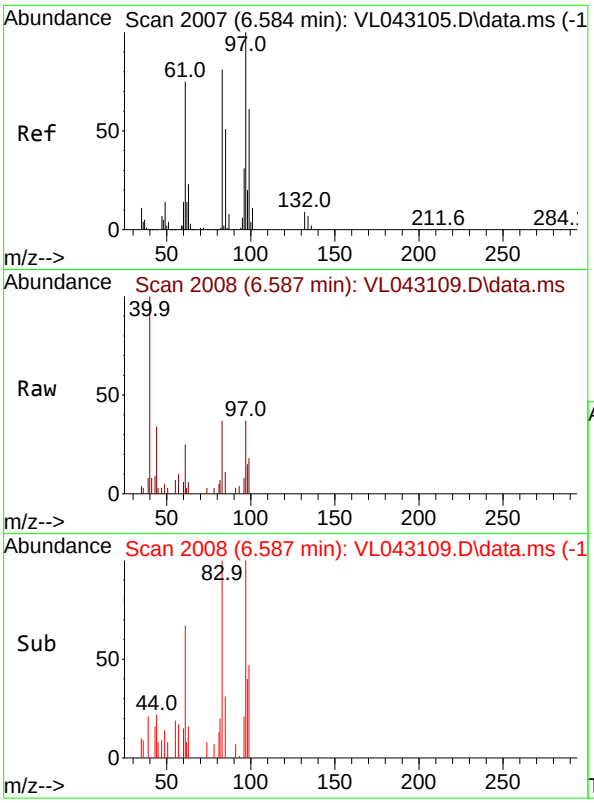


#46
cis-1,3-Dichloropropene
Concen: 0.025 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. -0.010 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 75 Resp: 472

Ion	Ratio	Lower	Upper
75	100		
39	111.8	51.0	76.6#
77	37.6	25.0	37.4#



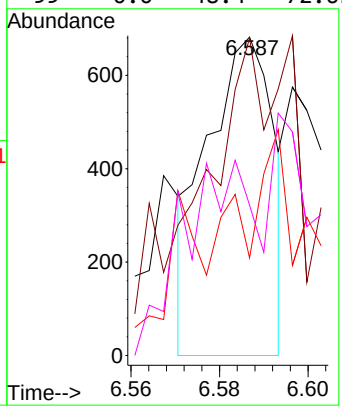


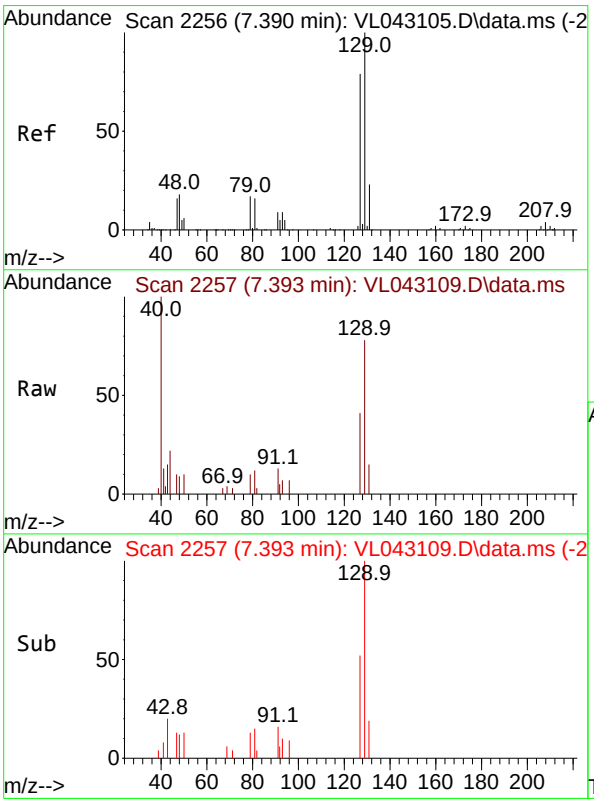
#47
1,1,2-Trichloroethane
Concen: 0.058 ppbv
RT: 6.587 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 97 Resp: 716

Ion	Ratio	Lower	Upper
97	100		
83	117.6	64.6	96.8#
85	0.0	40.6	60.8#
99	0.0	48.4	72.6#

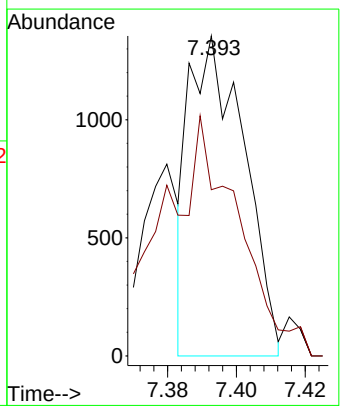


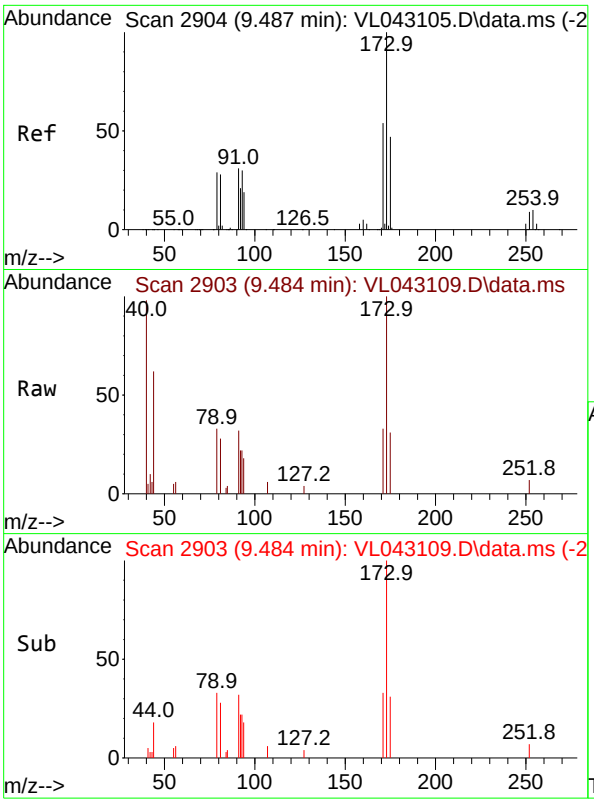


#48
Dibromochloromethane
Concen: 0.073 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:129 Resp: 1506

Ion	Ratio	Lower	Upper
129	100		
127	102.8	39.3	117.9



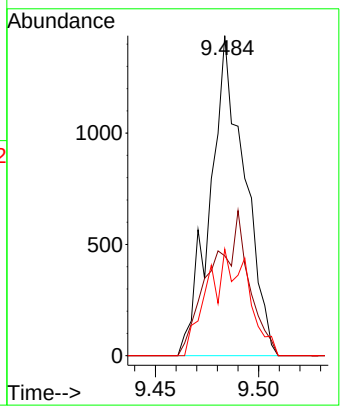


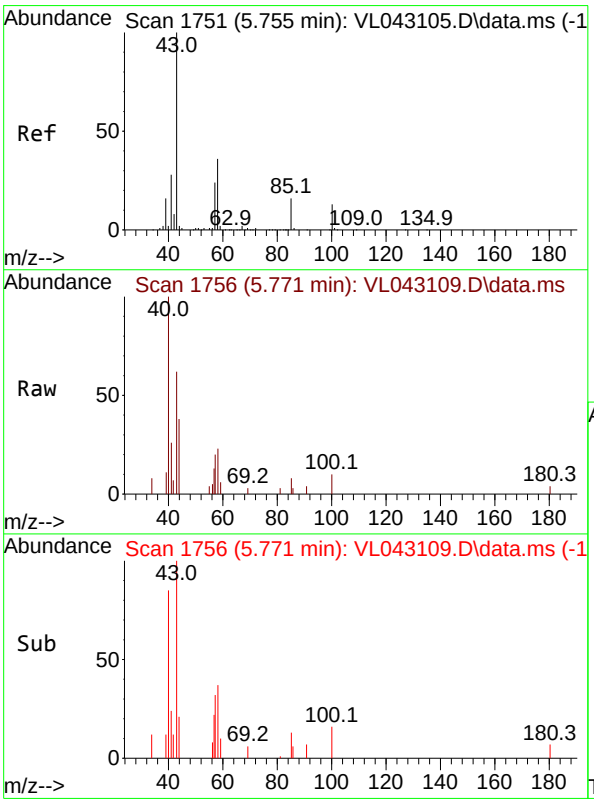
#49
Bromoform
Concen: 0.099 ppbv
RT: 9.484 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:173 Resp: 1666

Ion	Ratio	Lower	Upper
173	100		
175	48.9	38.8	58.2
171	39.1	41.7	62.5#

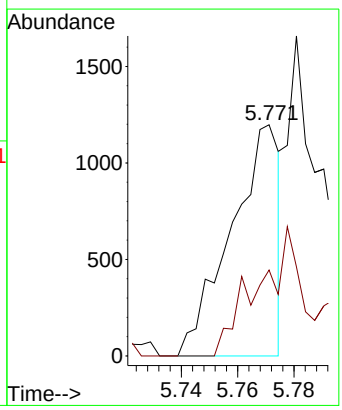


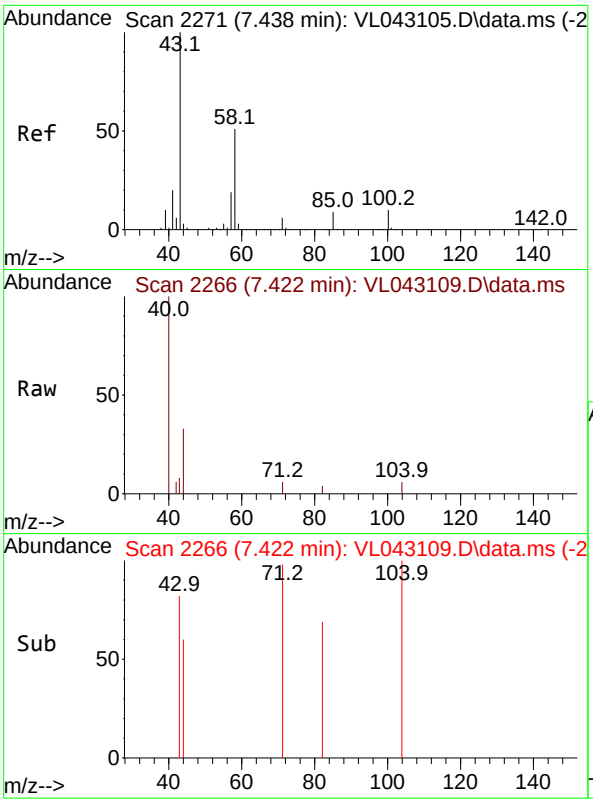


#50
4-Methyl-2-Pentanone
Concen: 0.046 ppbv
RT: 5.771 min Scan# 1756
Delta R.T. 0.016 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 43 Resp: 1420

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7#



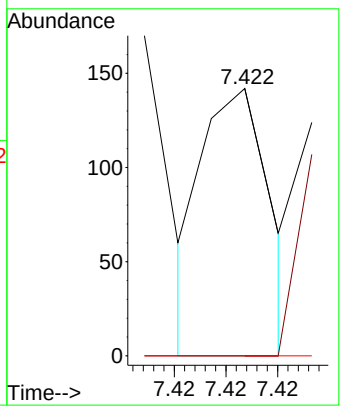


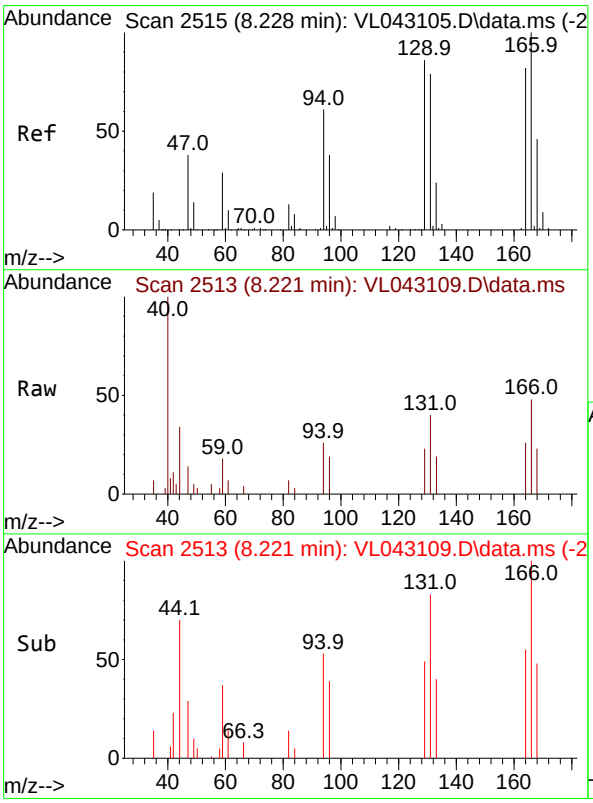
#51
2-Hexanone
Concen: 0.003 ppbv
RT: 7.422 min Scan# 2
Delta R.T. -0.016 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 65

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.4	60.6#
98	0.0	0.1	0.1#

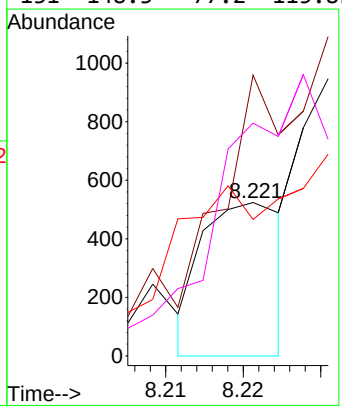


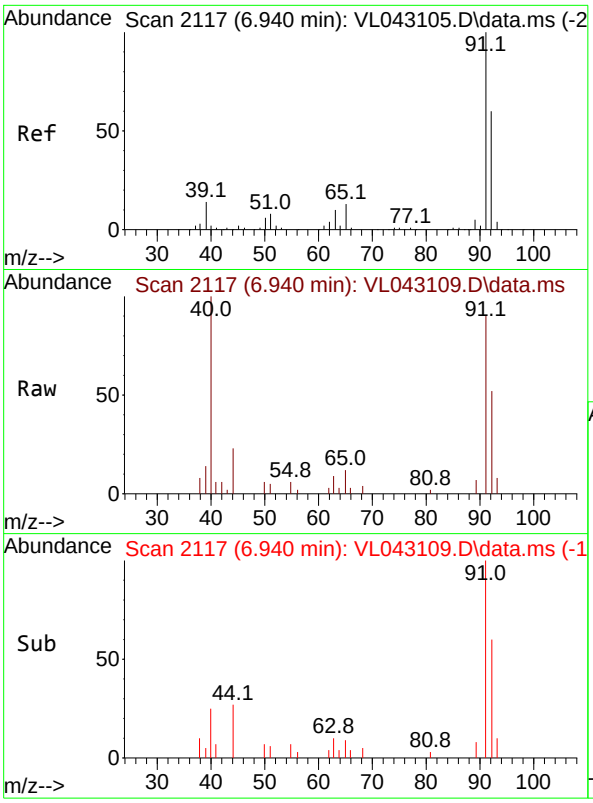


#52
Tetrachloroethene
Concen: 0.033 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:164 Resp: 377

Ion	Ratio	Lower	Upper
164	100		
166	208.1	97.6	146.4#
129	0.0	84.5	126.7#
131	148.3	77.2	115.8#



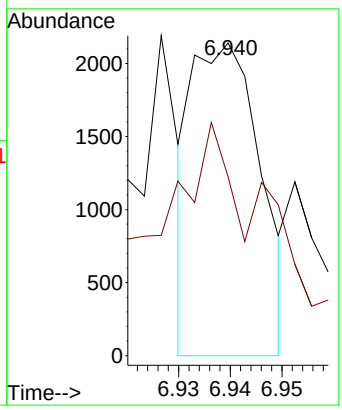


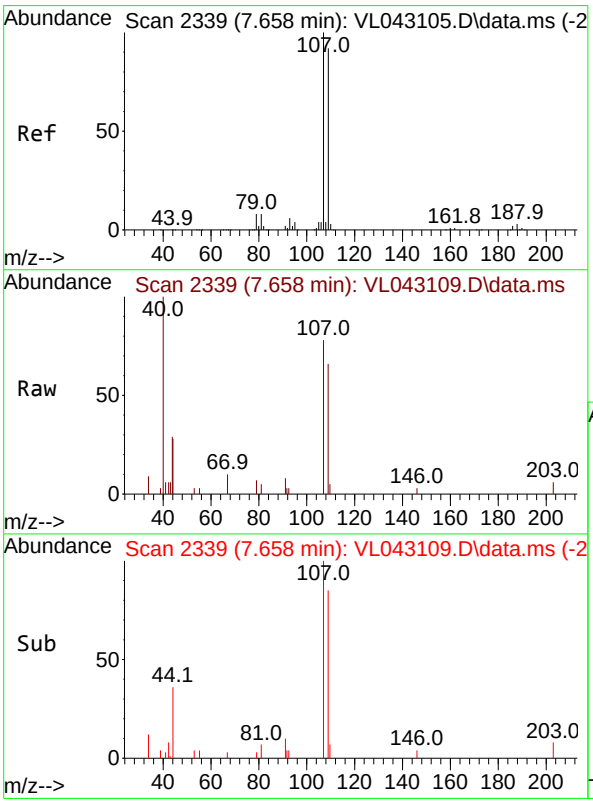
#53
Toluene
Concen: 0.053 ppbv
RT: 6.940 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 1973

Ion	Ratio	Lower	Upper
91	100		
92	130.1	48.8	73.2#

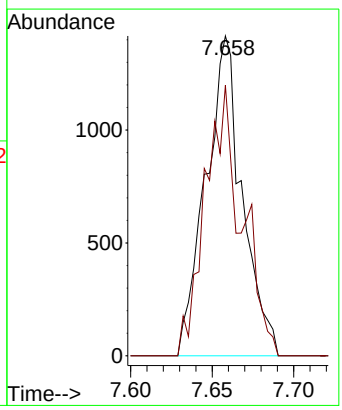


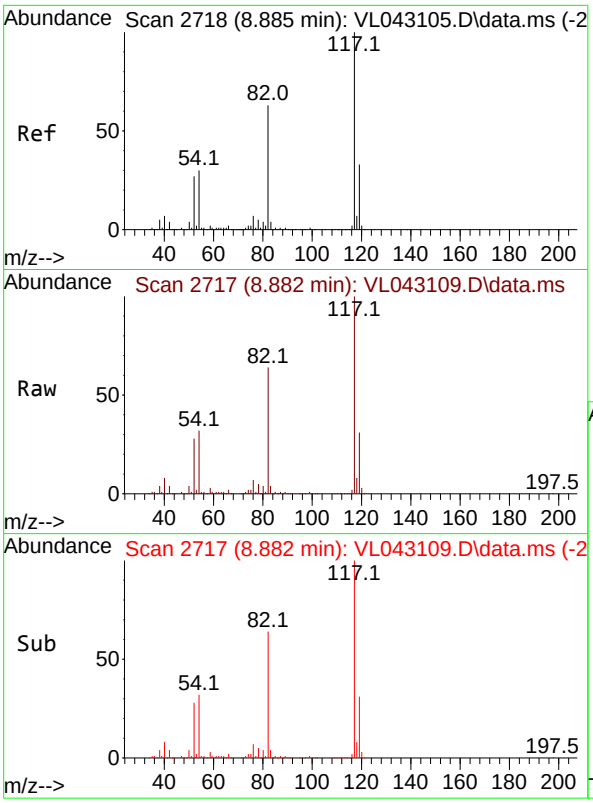


#54
1,2-Dibromoethane
Concen: 0.113 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:107 Resp: 2201

Ion	Ratio	Lower	Upper
107	100		
109	91.5	73.4	110.2



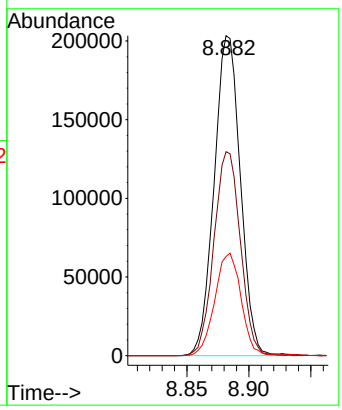


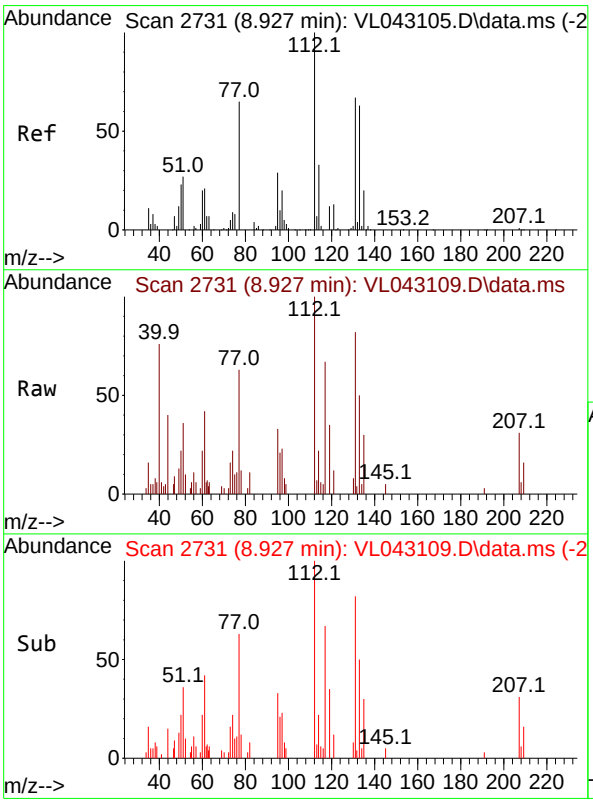
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:117 Resp: 299676

Ion	Ratio	Lower	Upper
117	100		
82	64.3	53.8	80.8
119	32.5	25.4	38.0

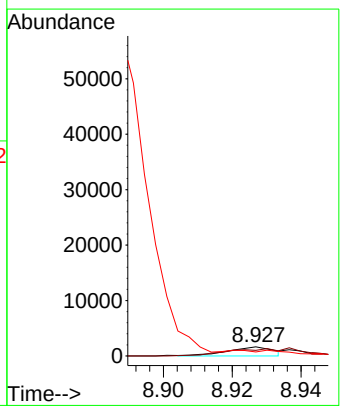


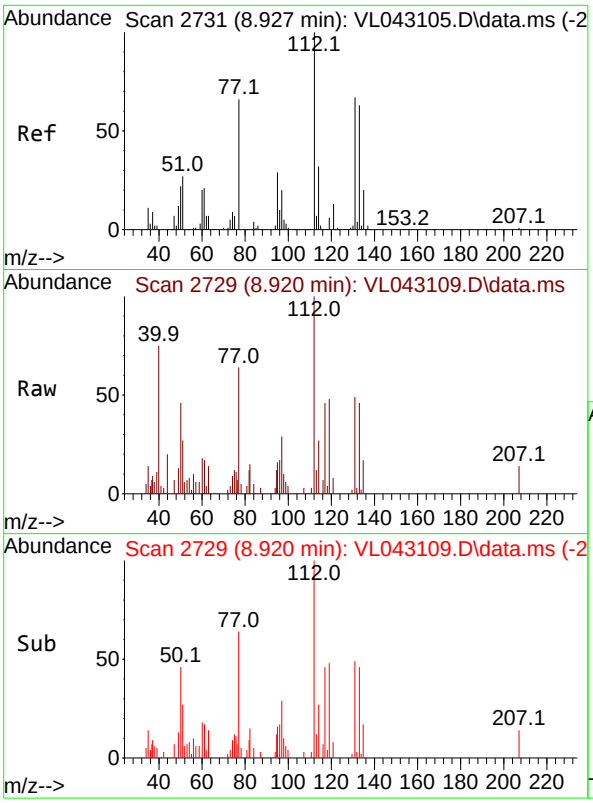


#56
1,1,1,2-Tetrachloroethane
Concen: 0.080 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:131 Resp: 1509

Ion	Ratio	Lower	Upper
131	100		
133	0.0	75.7	113.5#
119	0.0	50.6	76.0#



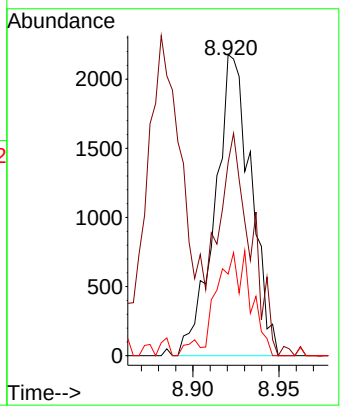


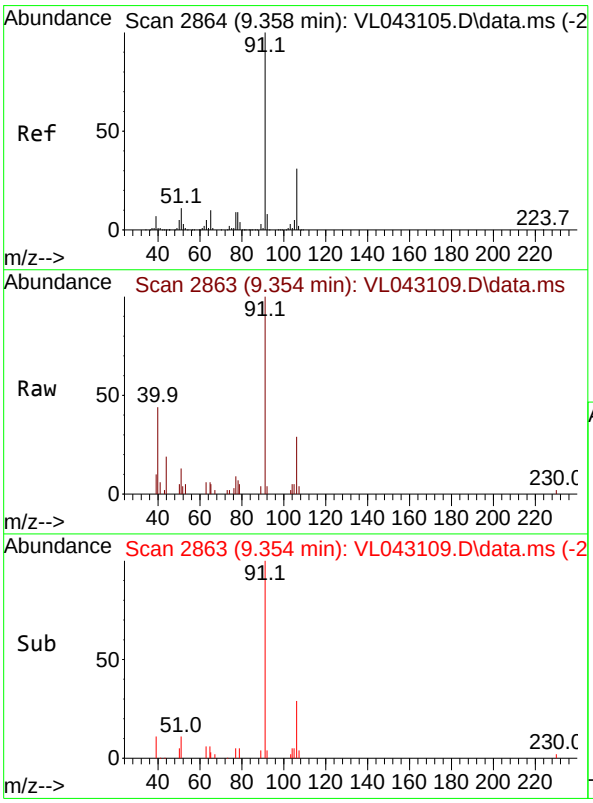
#57
Chlorobenzene
Concen: 0.113 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:112 Resp: 3177

Ion	Ratio	Lower	Upper
112	100		
77	64.1	53.3	79.9
114	27.1	29.3	35.8#

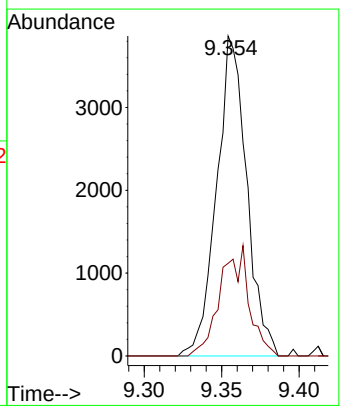


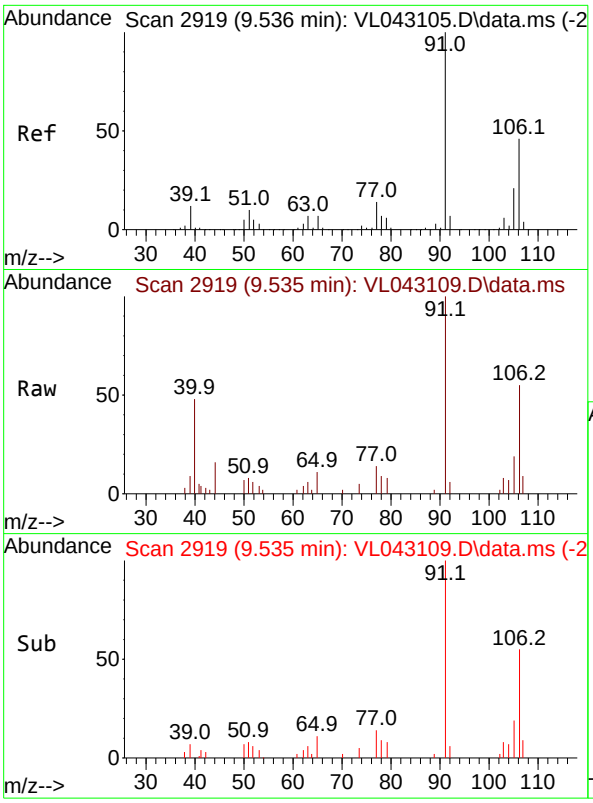


#58
Ethyl Benzene
Concen: 0.100 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 91 Resp: 5210

Ion	Ratio	Lower	Upper
91	100		
106	29.0	24.8	37.2



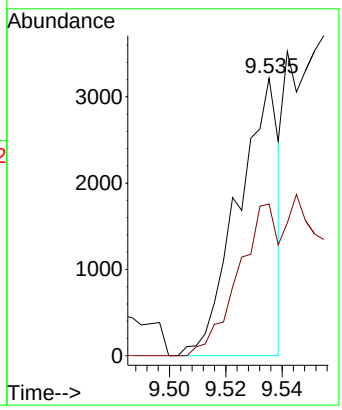


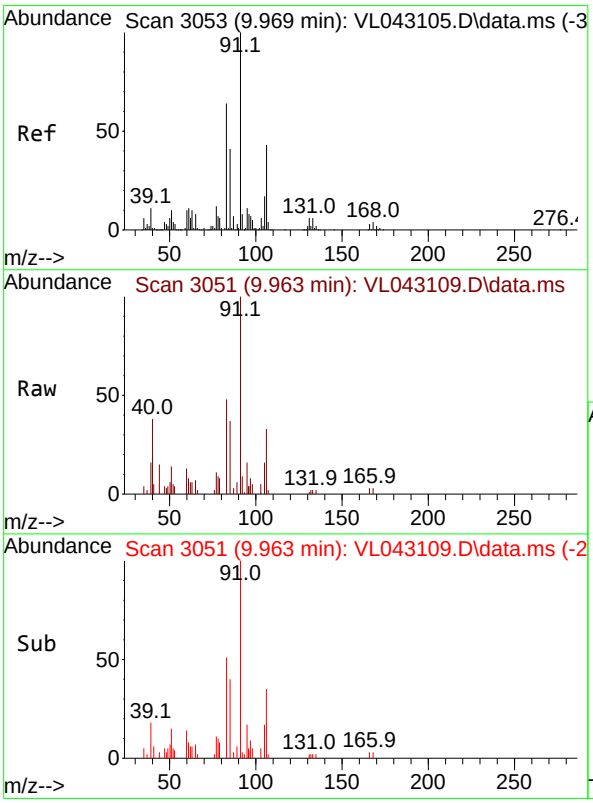
#59
m/p-Xylene
Concen: 0.078 ppbv
RT: 9.535 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 3213

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

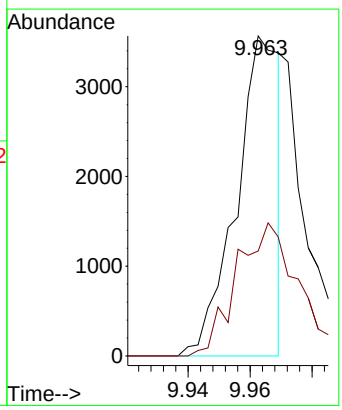


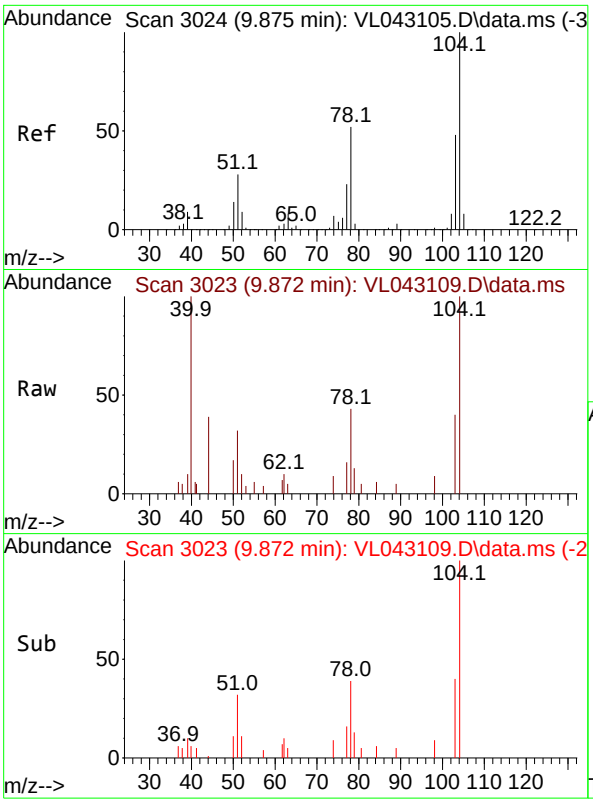


#60
o-Xylene
Concen: 0.085 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 91 Resp: 3450

Ion	Ratio	Lower	Upper
91	100		
106	57.9	21.9	65.8



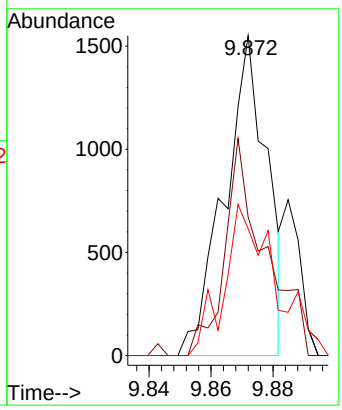


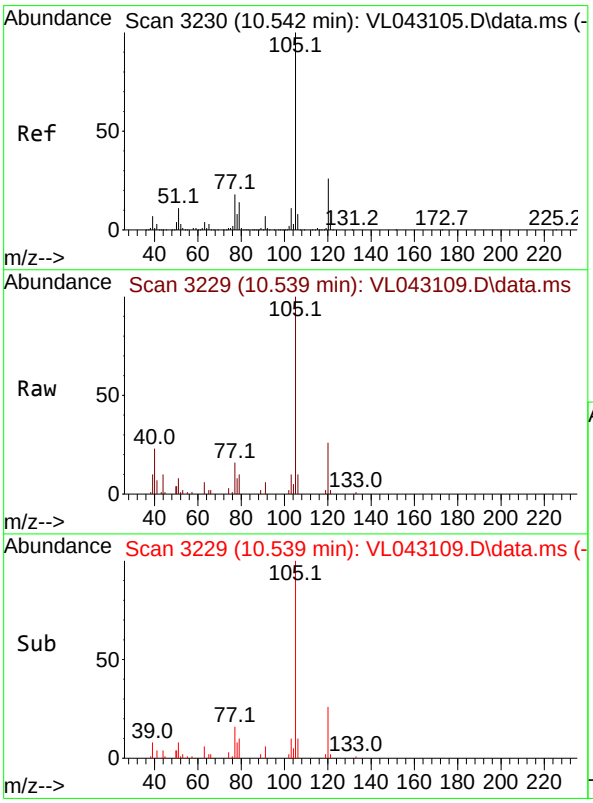
#61
Styrene
Concen: 0.081 ppbv
RT: 9.872 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:104 Resp: 1475

Ion	Ratio	Lower	Upper
104	100		
78	64.6	40.2	60.2#
103	56.3	36.9	55.3#

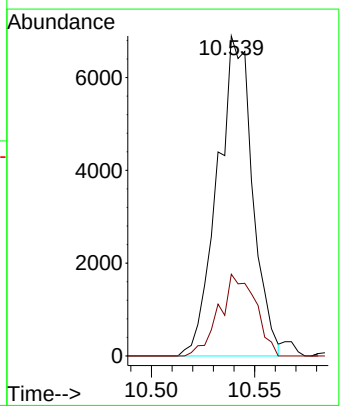


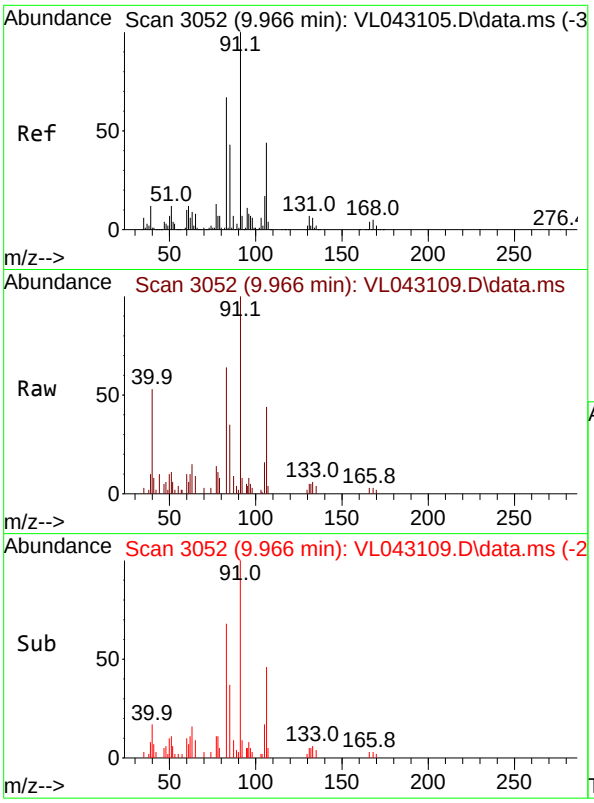


#62
Isopropylbenzene
Concen: 0.111 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:105 Resp: 8132

Ion	Ratio	Lower	Upper
105	100		
120	26.5	20.2	30.4



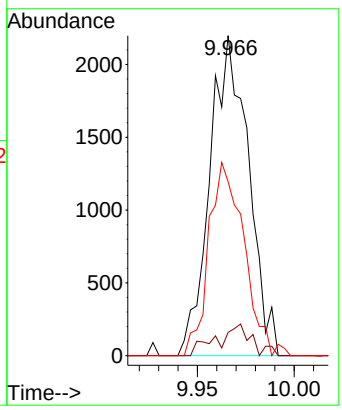


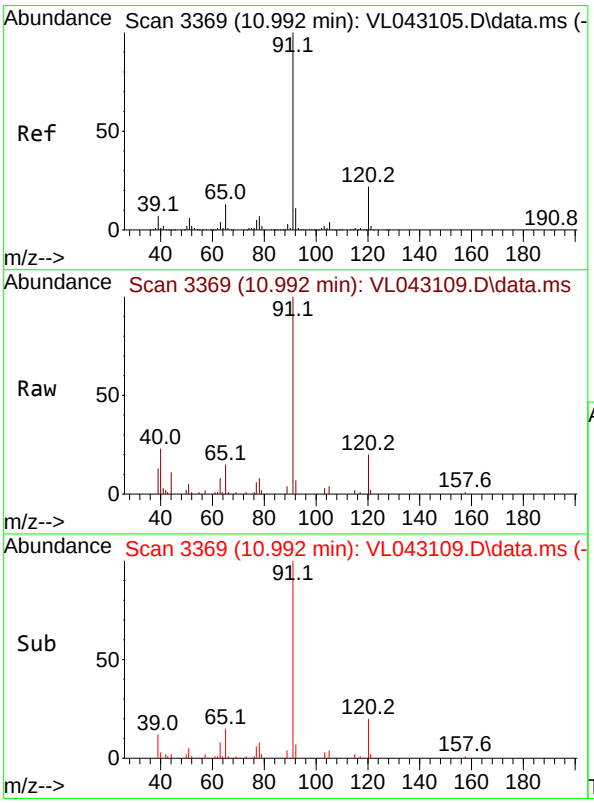
#63
1,1,2,2-Tetrachloroethane
Concen: 0.113 ppbv
RT: 9.966 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 3053

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.8	14.3
85	55.2	32.0	96.0

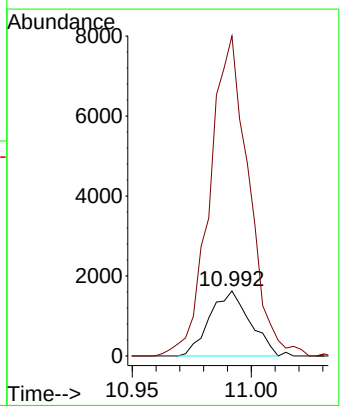


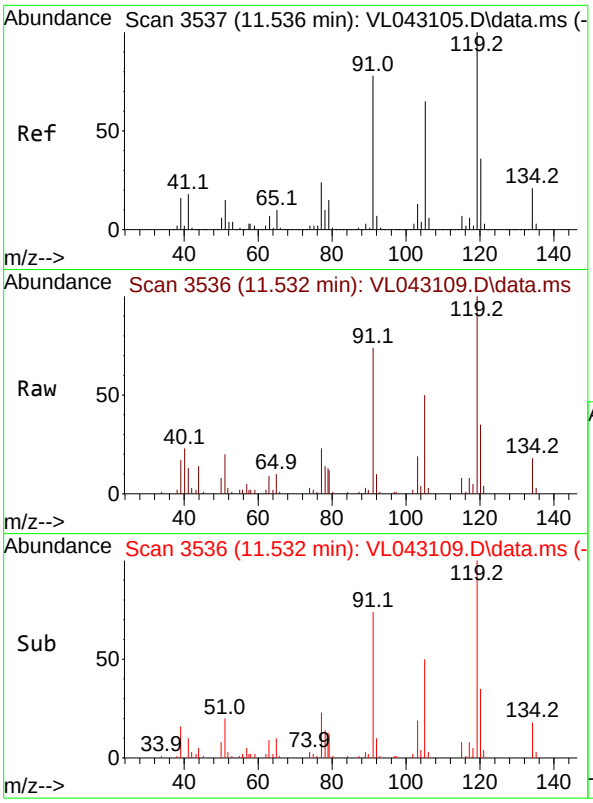


#64
n-propylbenzene
Concen: 0.098 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:120 Resp: 1906

Ion	Ratio	Lower	Upper
120	100		
91	484.6	361.6	542.4



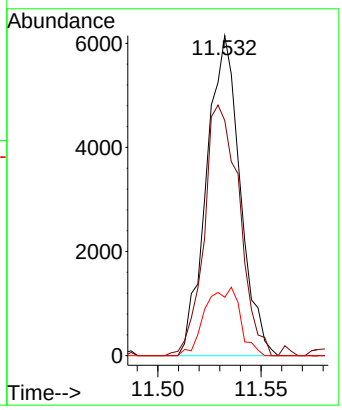


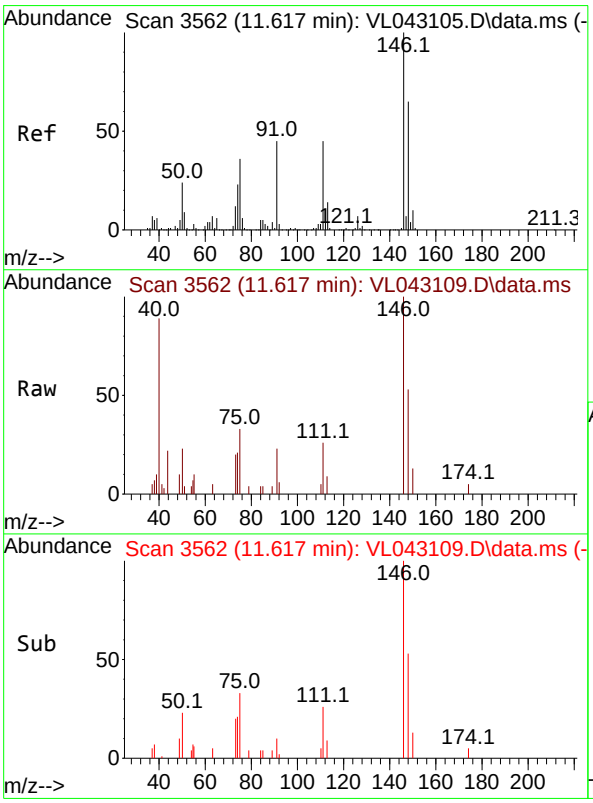
#65
tert-Butylbenzene
Concen: 0.108 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:119 Resp: 6951

Ion	Ratio	Lower	Upper
119	100		
91	82.7	63.4	95.0
134	22.2	17.3	25.9

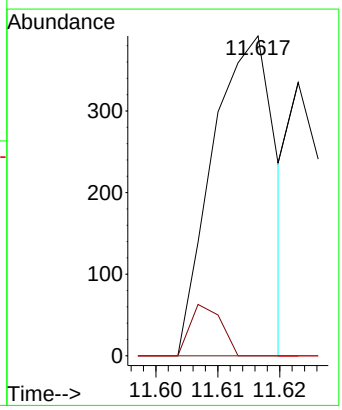


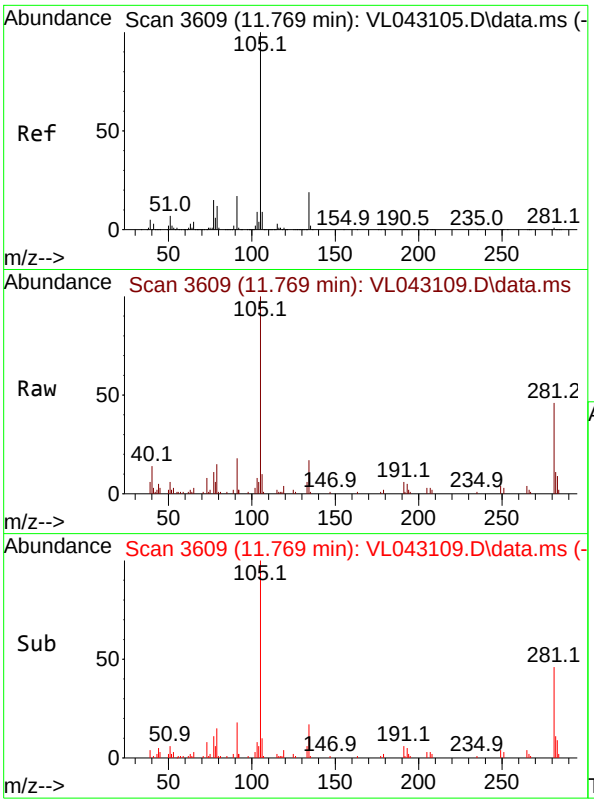


#66
Benzyl Chloride
Concen: 0.038 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 91 Resp: 277

Ion	Ratio	Lower	Upper
91	100		
126	7.9	14.6	22.0#
128	0.0	4.6	6.8#



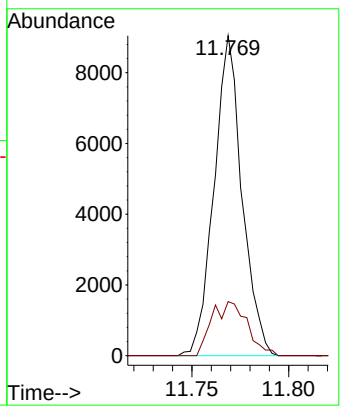


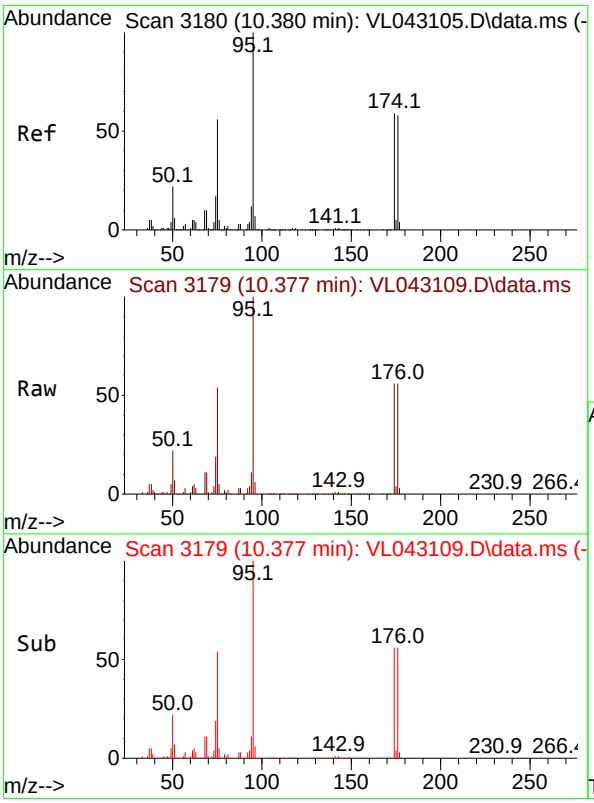
#67
sec-Butylbenzene
Concen: 0.099 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 9081

Ion	Ratio	Lower	Upper
105	100		
134	21.4	15.5	23.3

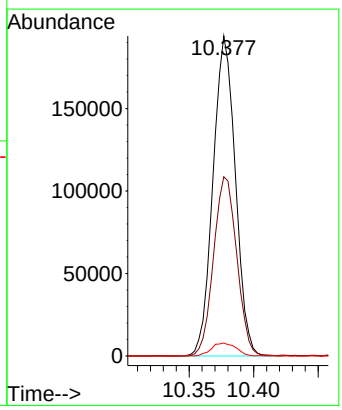


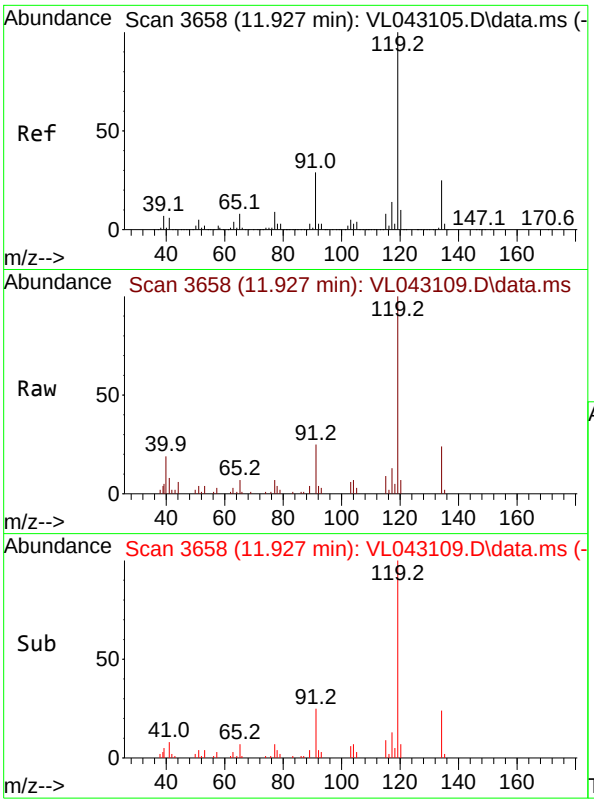


#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 95 Resp: 233673

Ion	Ratio	Lower	Upper
95	100		
174	58.0	48.3	72.5
175	4.5	3.8	5.8



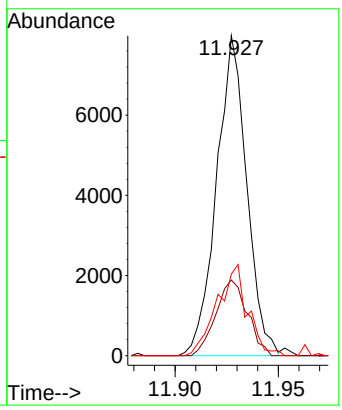


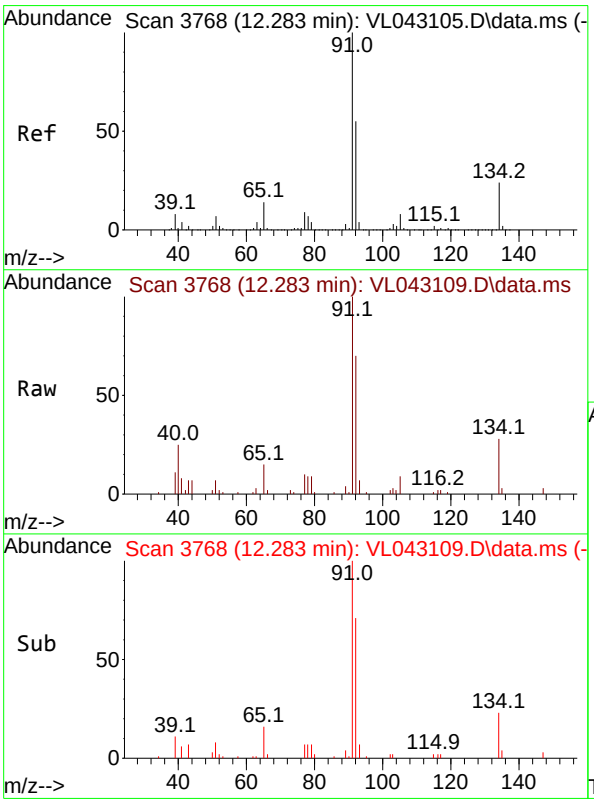
#69
p-Isopropyltoluene
Concen: 0.104 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:119 Resp: 8105

Ion	Ratio	Lower	Upper
119	100		
134	24.7	20.3	30.5
91	29.5	22.6	33.8

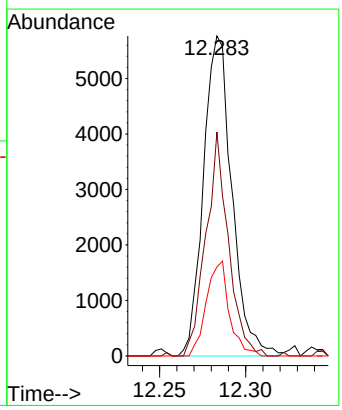


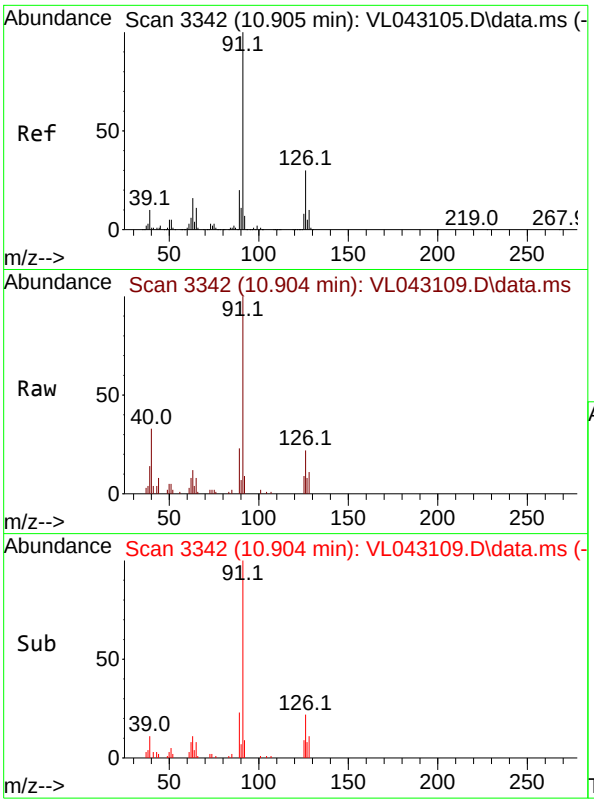


#70
n-Butylbenzene
Concen: 0.086 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion: 91 Resp: 6640

Ion	Ratio	Lower	Upper
91	100		
92	55.6	44.5	66.7
134	23.8	19.3	28.9



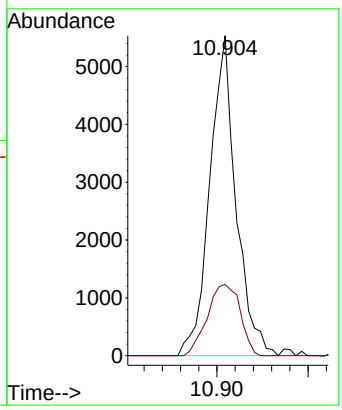


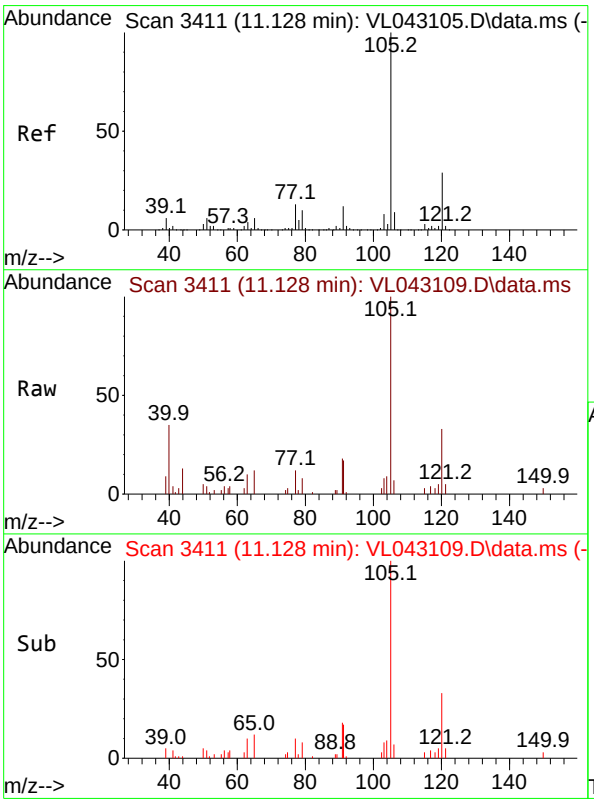
#71
2-Chlorotoluene
Concen: 0.099 ppbv
RT: 10.904 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 5527

Ion	Ratio	Lower	Upper
91	100		
126	27.9	12.0	48.0

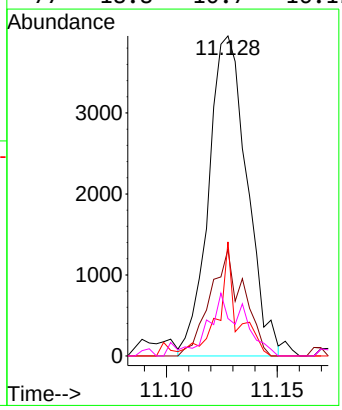


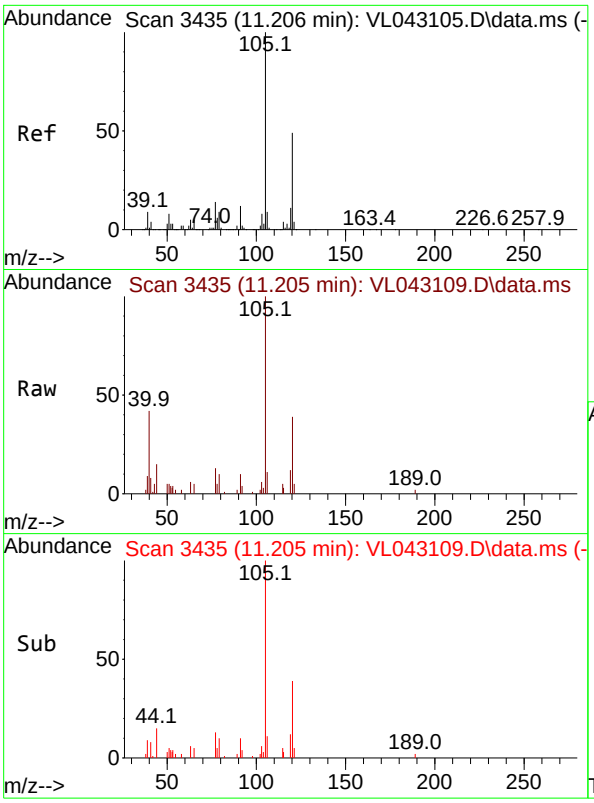


#72
4-Ethyltoluene
Concen: 0.095 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:105 Resp: 4754

Ion	Ratio	Lower	Upper
105	100		
120	29.1	24.2	36.4
91	18.8	10.0	15.0#
77	18.8	10.7	16.1#



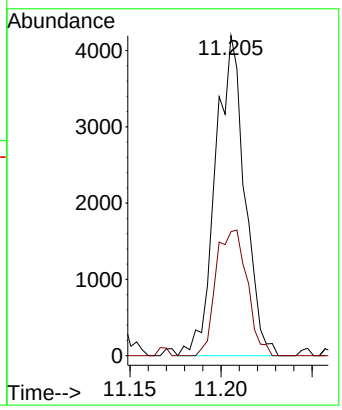


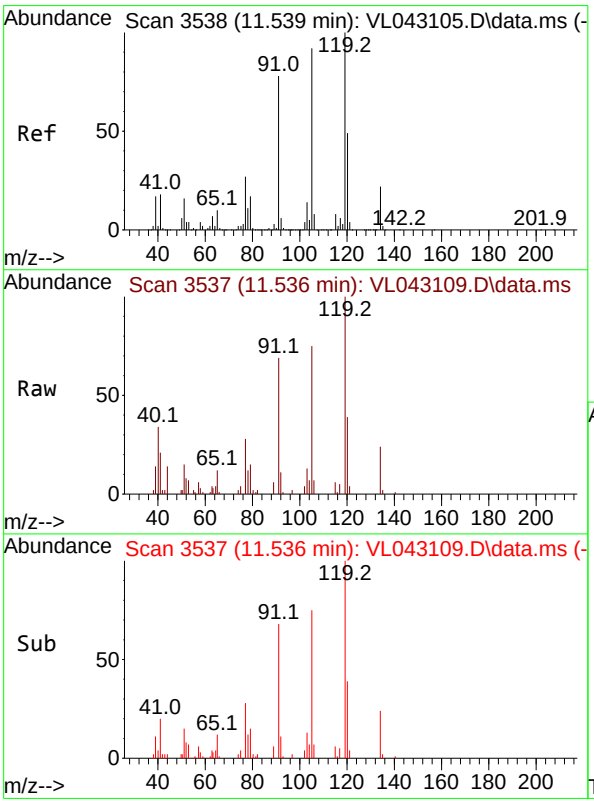
#73
1,3,5-Trimethylbenzene
Concen: 0.114 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 4680

Ion	Ratio	Lower	Upper
105	100		
120	38.7	39.0	58.6#

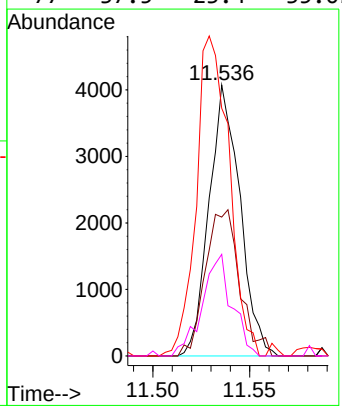


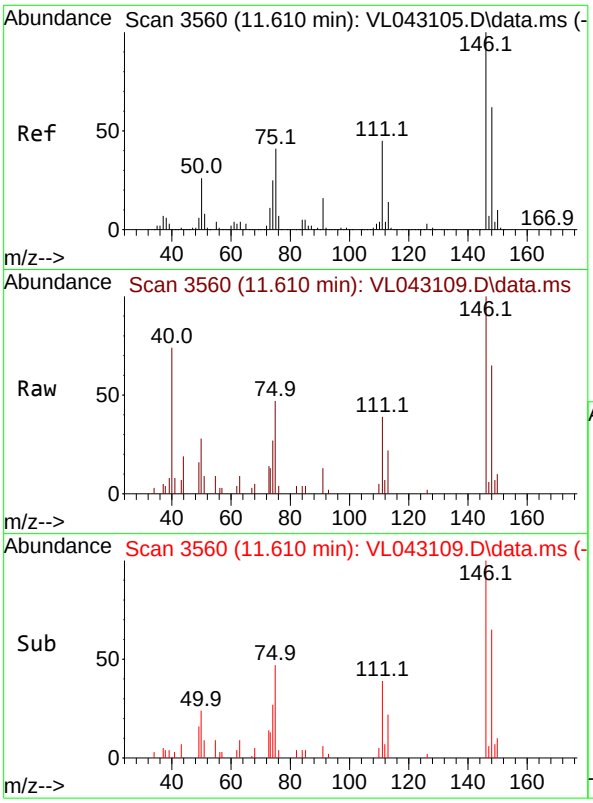


#74
1,2,4-Trimethylbenzene
Concen: 0.098 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:105 Resp: 4519

Ion	Ratio	Lower	Upper
105	100		
120	51.3	42.8	64.2
91	89.4	68.3	102.5
77	37.5	23.4	35.0#



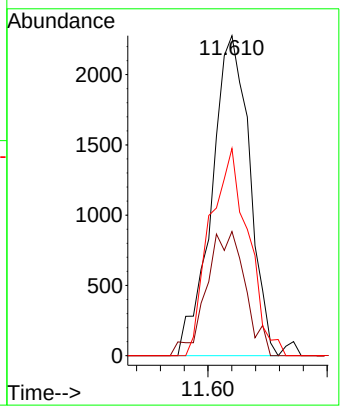


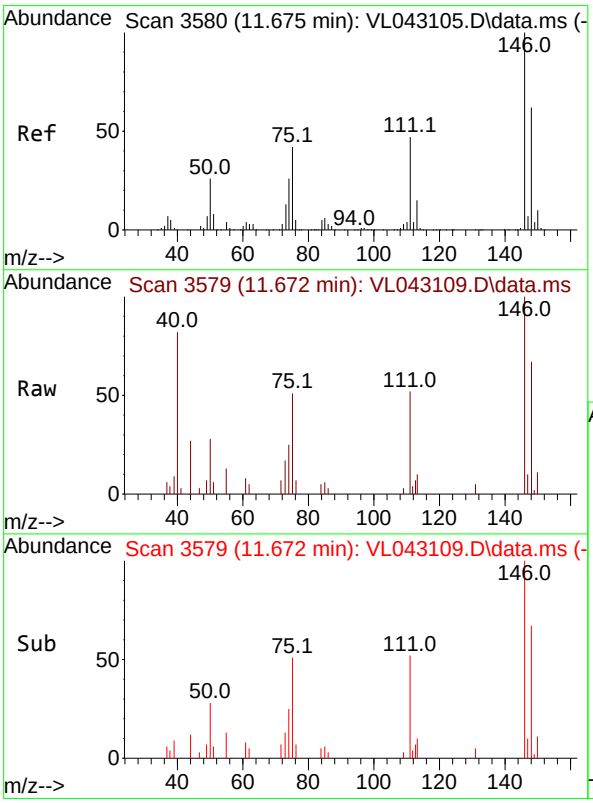
#75
1,3-Dichlorobenzene
Concen: 0.094 ppbv
RT: 11.610 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:146 Resp: 2518

Ion	Ratio	Lower	Upper
146	100		
111	39.9	23.3	69.9
148	66.0	31.6	95.0

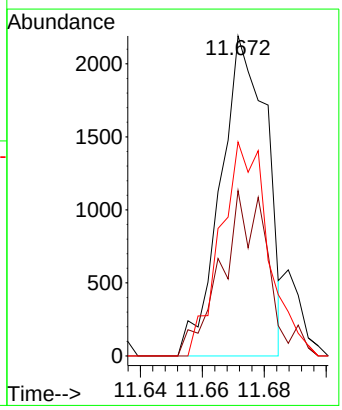


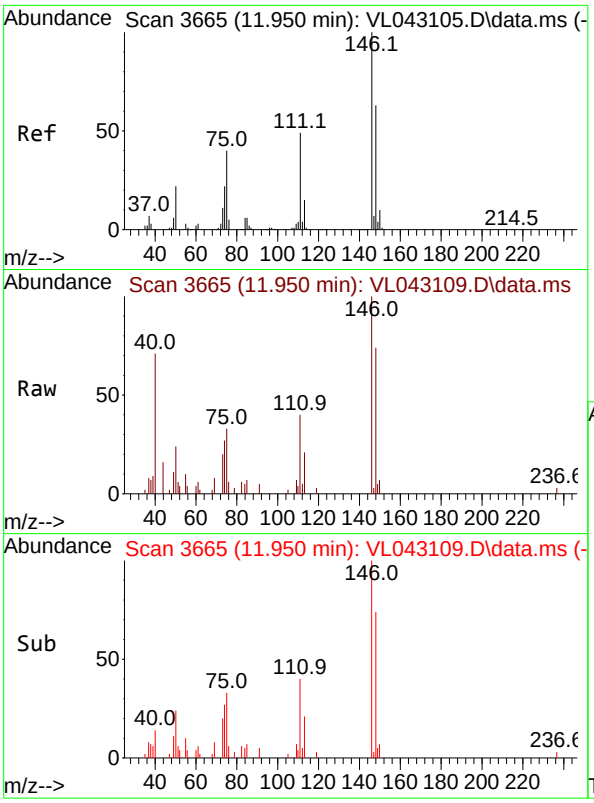


#76
1,4-Dichlorobenzene
Concen: 0.084 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.003 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:146 Resp: 2266

Ion	Ratio	Lower	Upper
146	100		
111	52.0	22.4	67.0
148	69.5	31.6	94.7



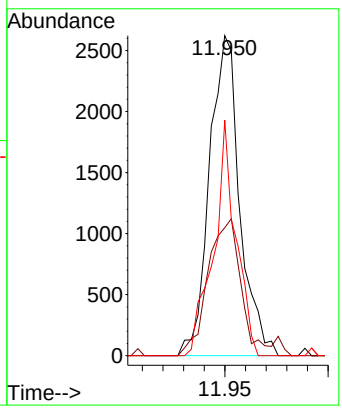


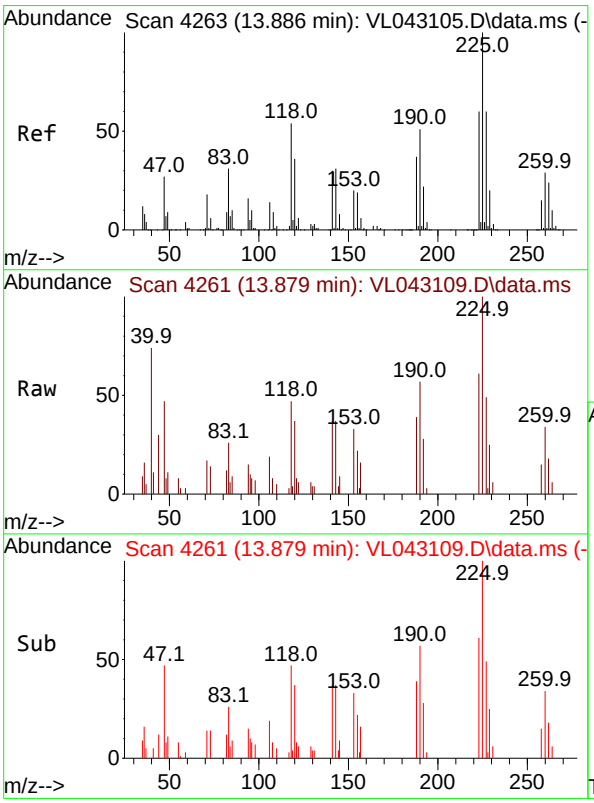
#77
1,2-Dichlorobenzene
Concen: 0.104 ppbv
RT: 11.950 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:146 Resp: 2676

Ion	Ratio	Lower	Upper
146	100		
111	48.2	24.0	72.0
148	53.9	31.1	93.3

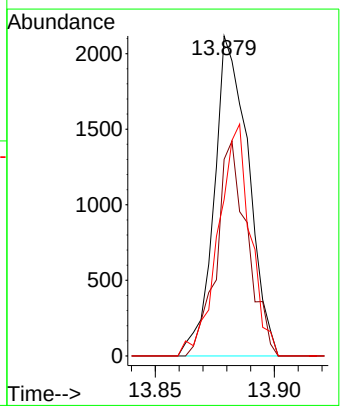


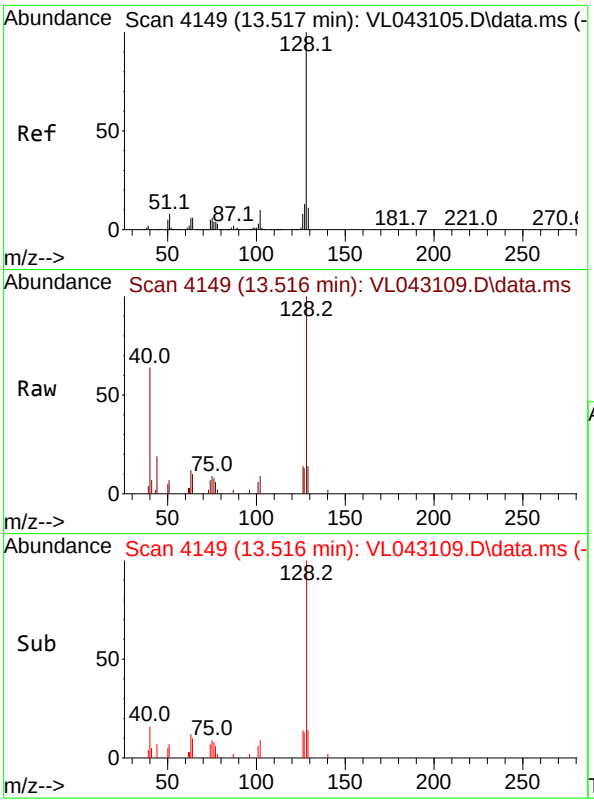


#78
Hexachloro-1,3-Butadiene
Concen: 0.105 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.007 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:225 Resp: 2107

Ion	Ratio	Lower	Upper
225	100		
223	60.6	50.2	75.4
227	68.2	49.6	74.4



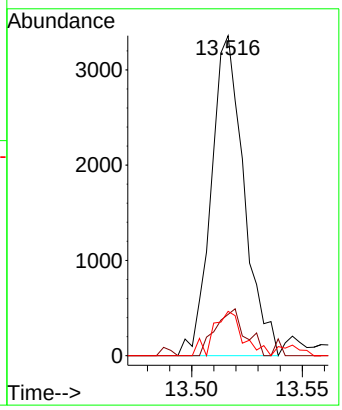


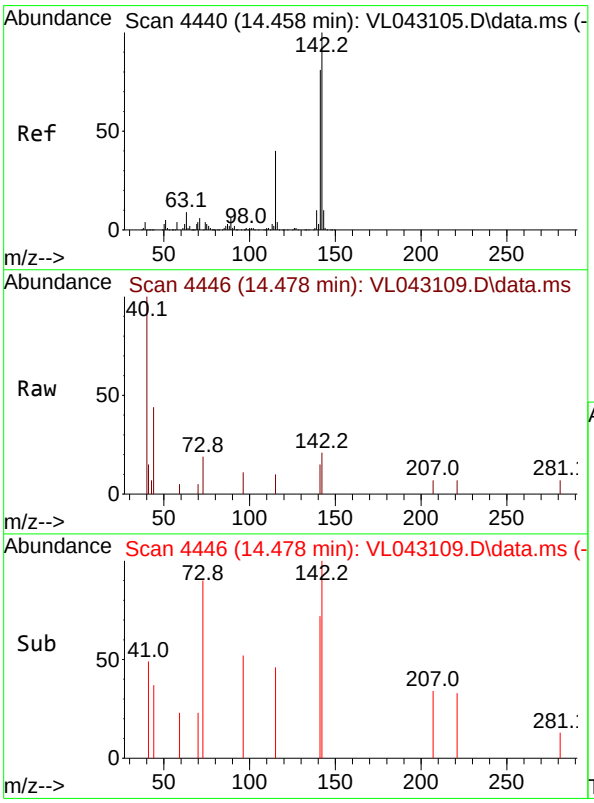
#79
Naphthalene
Concen: 0.073 ppbv
RT: 13.516 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:128 Resp: 3453

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	13.8	9.1	13.7#

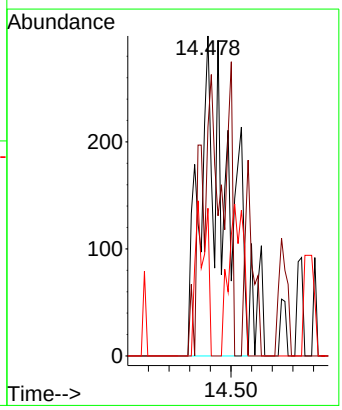


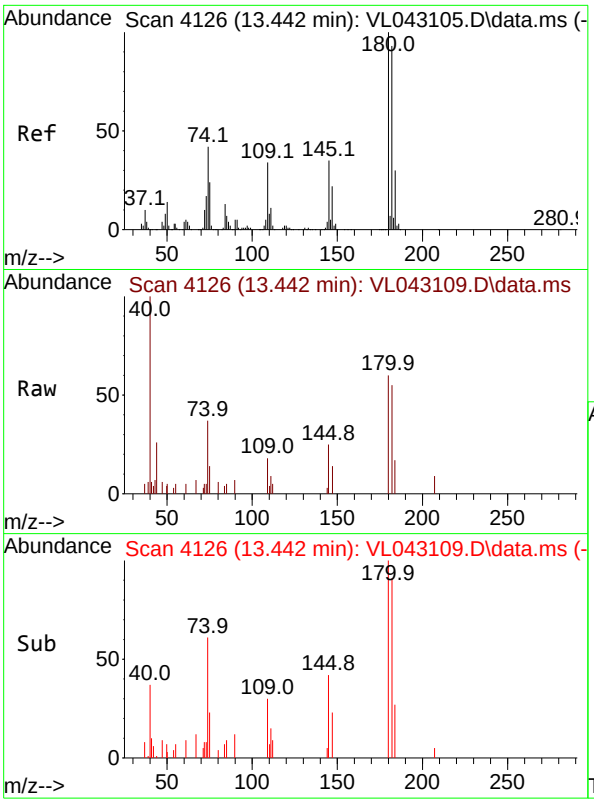


#80
Naphthalene,2-methyl-
Concen: 0.046 ppbv
RT: 14.478 min Scan# 4446
Delta R.T. 0.019 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Tgt Ion:142 Resp: 582

Ion	Ratio	Lower	Upper
142	100		
141	0.0	64.6	97.0#
115	18.2	30.2	45.4#



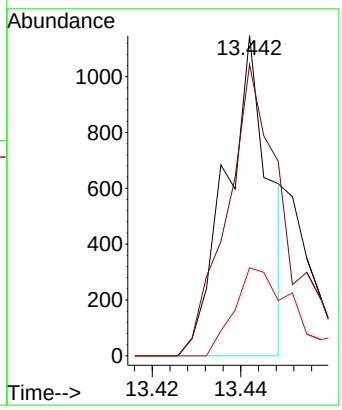


#81
1,2,4-Trichlorobenzene
Concen: 0.039 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043109.D
Acq: 14 Oct 2025 13:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:180 Resp: 774

Ion	Ratio	Lower	Upper
180	100		
182	119.1	75.5	113.3#
184	37.6	23.9	35.9#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043110.D
Acq On : 14 Oct 2025 13:42
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Oct 15 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	100058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	328897	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	292884	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	224043	9.841	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	546	0.038	ppbv	100
3) Chlorodifluoromethane	1.480	51	572	0.037	ppbv #	35
4) Chloromethane	1.535	50	354	0.063	ppbv #	53
5) Vinyl Chloride	1.583	62	217	0.039	ppbv #	78
6) Bromomethane	1.670	94	110	0.036	ppbv #	56
7) Chloroethane	1.706	64	136	0.060	ppbv #	42
8) Dichlorotetrafluoroethane	1.557	85	358	0.031	ppbv #	75
9) Propene	1.486	41	524	0.077	ppbv #	1
10) Heptane	4.988	43	203	0.010	ppbv #	27
11) Trichlorofluoromethane	2.137	101	209	0.015	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.143	101	220	0.020	ppbv #	13
13) Ethanol	1.793	45	201	0.080	ppbv #	1
14) Bromoethene	1.781	108	202	0.049	ppbv #	22
15) Acetone	1.839	43	1339	0.099	ppbv #	56
16) 1,3-Butadiene	1.612	39	710	0.110	ppbv	88
17) tert-Butyl alcohol	2.049	59	599	0.032	ppbv #	1
18) 1,1-Dichloroethene	2.036	96	232	0.048	ppbv	88
19) Isopropyl Alcohol	1.891	45	263	0.031	ppbv	95
20) Methylene Chloride	2.062	84	1624	0.305	ppbv #	83
21) Allyl Chloride	2.094	41	645	0.065	ppbv #	1
22) trans-1,2-Dichloroethene	2.344	96	240	0.041	ppbv	87
23) Vinyl Acetate	2.470	43	699	0.035	ppbv #	44
24) 1,1-Dichloroethane	2.412	63	383	0.034	ppbv #	87
25) Ethyl Acetate	2.845	43	998	0.030	ppbv #	85
26) Hexane	2.823	57	740	0.048	ppbv #	81
27) Carbon Disulfide	2.149	76	215	0.015	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	309	0.044	ppbv #	1
29) Chloroform	2.849	83	839	0.038	ppbv #	67
30) Cyclohexane	3.865	84	276	0.021	ppbv #	1
31) cis-1,2-Dichloroethene	2.719	61	467	0.032	ppbv #	73
32) 1,1,1-Trichloroethane	3.376	97	336	0.014	ppbv #	1
34) 2-Butanone	2.564	43	909	0.041	ppbv #	89
35) Carbon Tetrachloride	3.768	117	216	0.009	ppbv #	73
36) Benzene	3.658	78	246	0.008	ppbv #	1
37) 1,2-Dichloroethane	3.221	62	772	0.043	ppbv #	87
38) Trichloroethene	4.551	130	216	0.017	ppbv #	77
39) 1,2-Dichloropropane	3.959	63	79938	7.052	ppbv #	25
40) 1,4-Dioxane	4.609	88	33	0.007	ppbv #	1
41) Tetrahydrofuran	3.049	42	87	0.007	ppbv #	37
42) Bromodichloromethane	4.496	83	250	0.010	ppbv #	26
43) Methyl Methacrylate	4.875	69	36	0.002	ppbv #	1
44) 2,2,4-Trimethylpentane	4.638	57	669	0.013	ppbv #	1
45) t-1,3-Dichloropropene	6.415	75	165	0.010	ppbv #	87

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043110.D
Acq On : 14 Oct 2025 13:42
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Oct 15 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	261	0.014	ppbv	#	80
47) 1,1,2-Trichloroethane	6.577	97	98	0.008	ppbv	#	42
48) Dibromochloromethane	7.390	129	186	0.009	ppbv	#	1
49) Bromoform	9.480	173	323	0.019	ppbv	#	56
50) 4-Methyl-2-Pentanone	5.762	43	271	0.009	ppbv	#	38
51) 2-Hexanone	7.438	43	98	0.004	ppbv	#	27
52) Tetrachloroethene	8.218	164	120	0.011	ppbv	#	67
53) Toluene	6.936	91	632	0.017	ppbv	#	20
54) 1,2-Dibromoethane	7.649	107	308	0.016	ppbv		86
56) 1,1,1,2-Tetrachloroethane	8.927	131	441	0.024	ppbv	#	14
57) Chlorobenzene	8.921	112	764	0.028	ppbv	#	63
58) Ethyl Benzene	9.357	91	1218	0.024	ppbv	#	83
59) m/p-Xylene	9.529	91	759	0.019	ppbv	#	29
60) o-Xylene	9.966	91	693	0.018	ppbv	#	32
61) Styrene	9.875	104	538	0.030	ppbv	#	88
62) Isopropylbenzene	10.539	105	1735	0.024	ppbv		90
63) 1,1,2,2-Tetrachloroethane	9.960	83	369	0.014	ppbv	#	1
64) n-propylbenzene	10.995	120	616	0.033	ppbv		92
65) tert-Butylbenzene	11.533	119	2219	0.035	ppbv		95
66) Benzyl Chloride	11.620	91	98	0.014	ppbv	#	65
67) sec-Butylbenzene	11.769	105	3170	0.035	ppbv		96
69) p-Isopropyltoluene	11.927	119	2370	0.031	ppbv	#	90
70) n-Butylbenzene	12.290	91	1534	0.020	ppbv	#	92
71) 2-Chlorotoluene	10.901	91	1757	0.032	ppbv		100
72) 4-Ethyltoluene	11.128	105	1502	0.031	ppbv	#	90
73) 1,3,5-Trimethylbenzene	11.202	105	1005	0.025	ppbv	#	83
74) 1,2,4-Trimethylbenzene	11.533	105	806	0.018	ppbv		89
75) 1,3-Dichlorobenzene	11.600	146	251	0.010	ppbv	#	1
76) 1,4-Dichlorobenzene	11.672	146	504	0.019	ppbv	#	24
77) 1,2-Dichlorobenzene	11.950	146	709	0.028	ppbv		79
78) Hexachloro-1,3-Butadiene	13.876	225	239	0.012	ppbv	#	19
79) Naphthalene	13.520	128	851	0.018	ppbv	#	94
80) Naphthalene,2-methyl-	14.458	142	15	0.001	ppbv	#	1
81) 1,2,4-Trichlorobenzene	13.445	180	219	0.011	ppbv	#	79

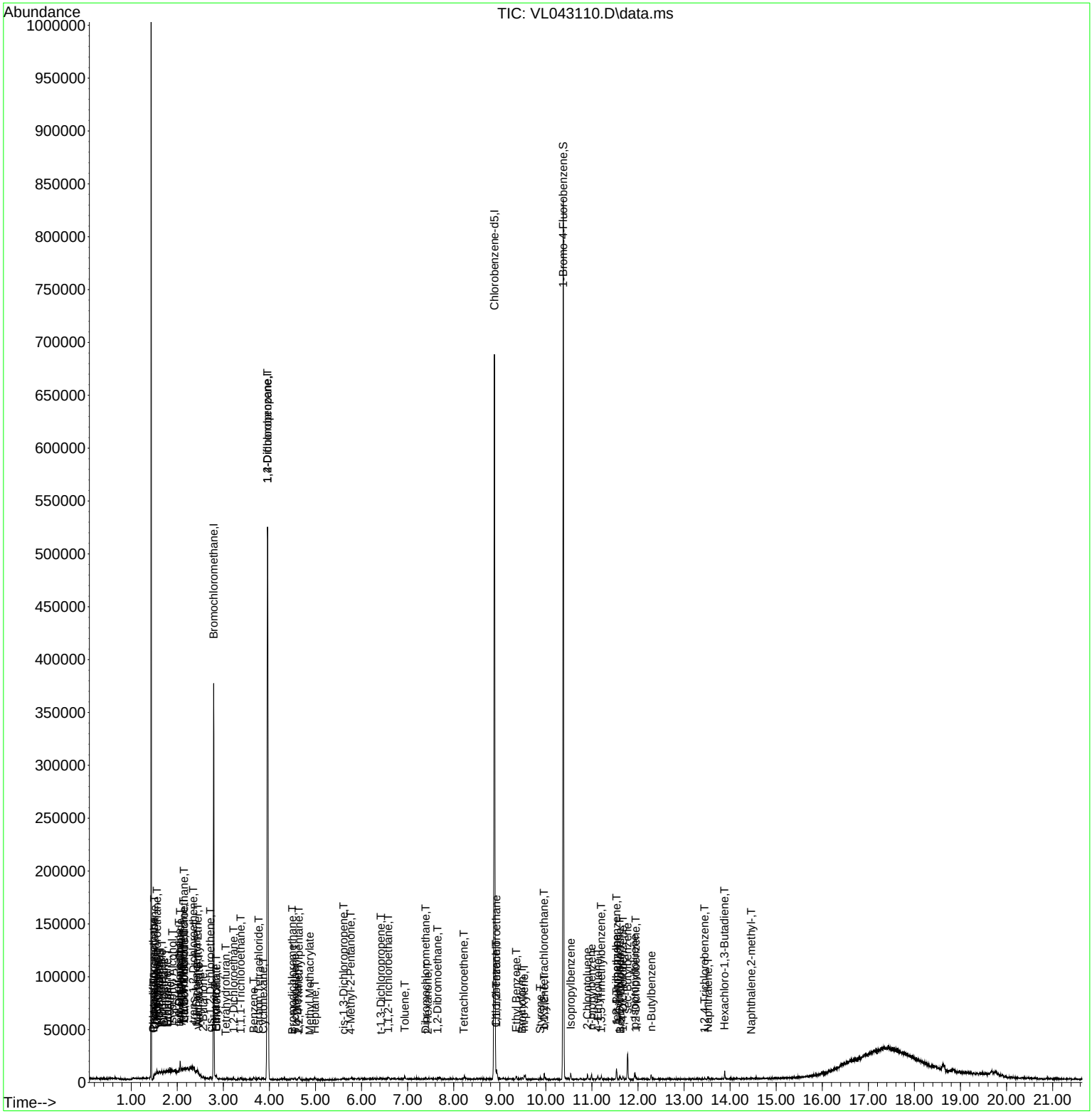
(#) = qualifier out of range (m) = manual integration (+) = signals summed

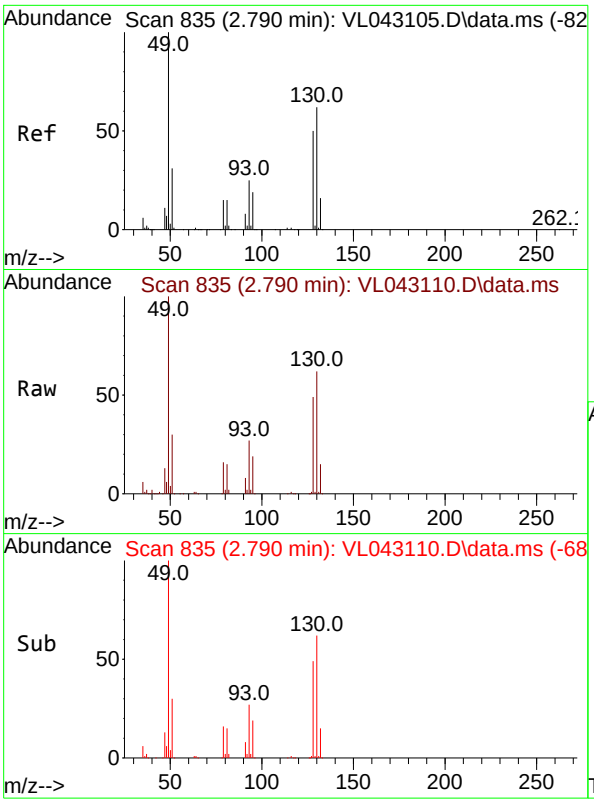
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043110.D
Acq On : 14 Oct 2025 13:42
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Oct 15 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration



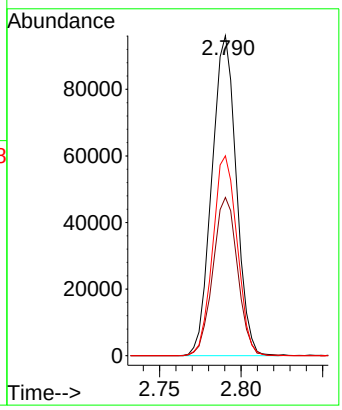


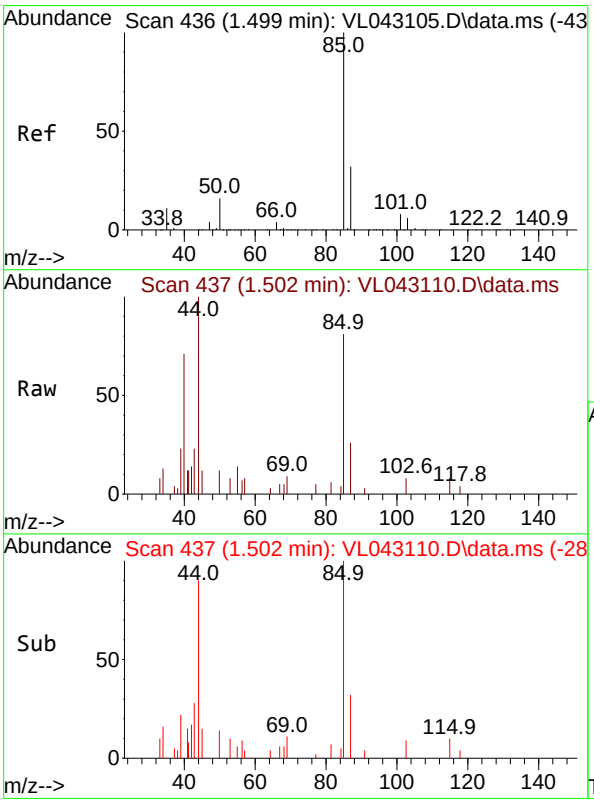
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 100058

Ion	Ratio	Lower	Upper
49	100		
128	49.9	24.4	73.4
130	62.5	31.0	93.0

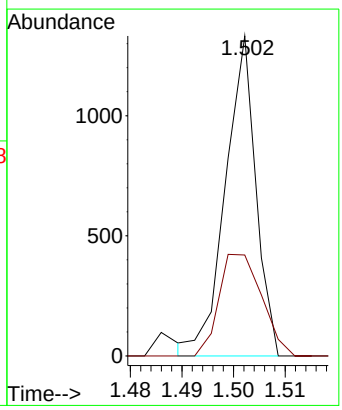


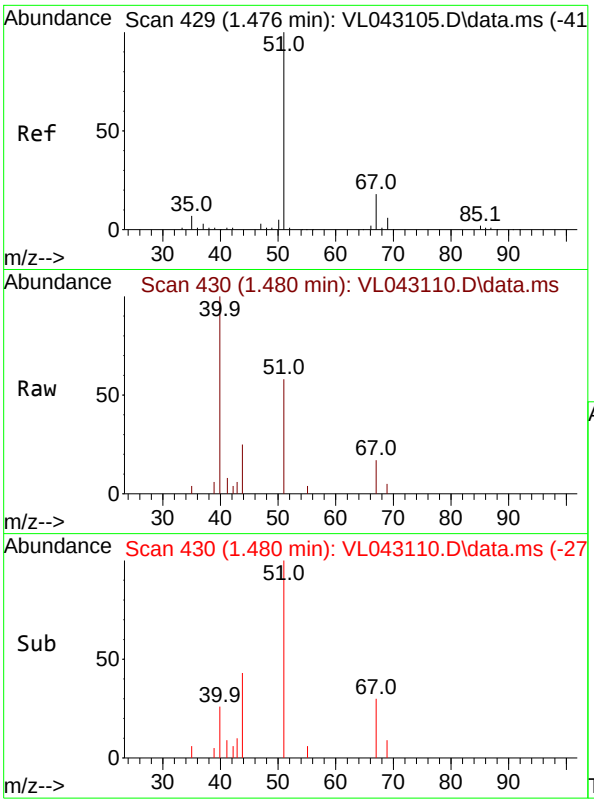


#2
Dichlorodifluoromethane
Concen: 0.038 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 85 Resp: 546

Ion	Ratio	Lower	Upper
85	100		
87	31.5	25.3	37.9



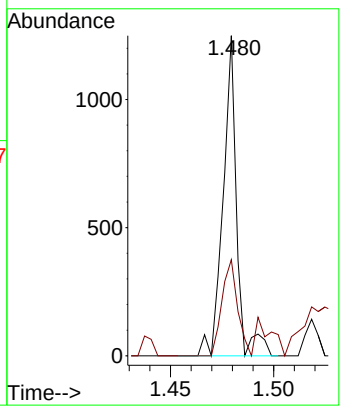


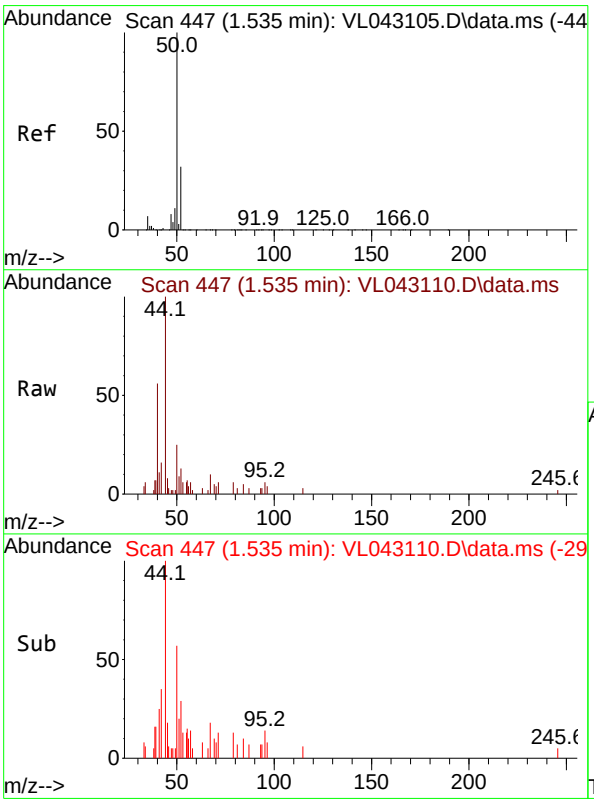
#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.480 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 51 Resp: 572

Ion	Ratio	Lower	Upper
51	100		
67	48.1	15.1	22.7#

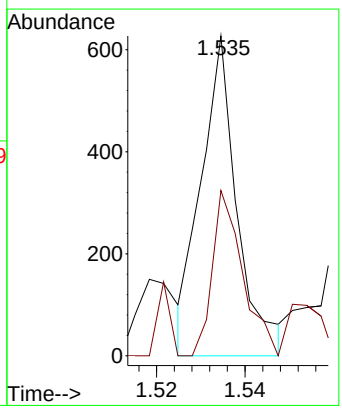


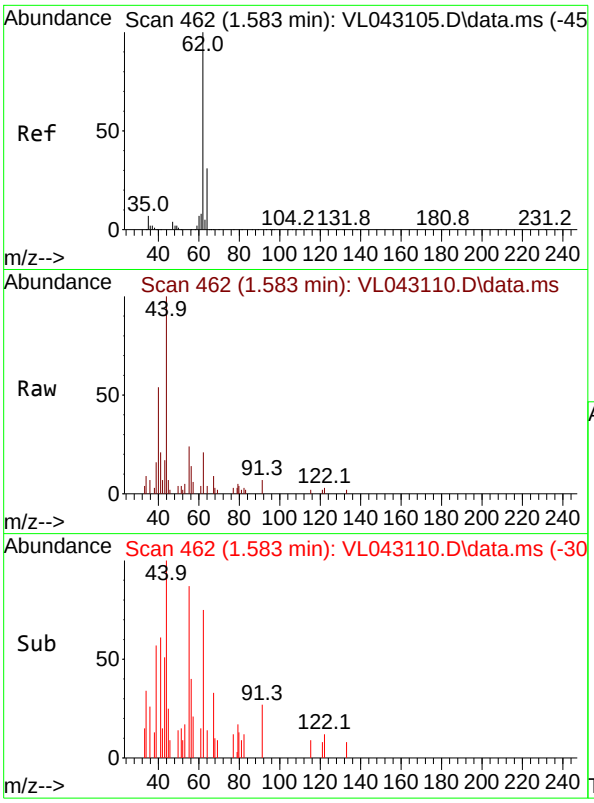


#4
Chloromethane
Concen: 0.063 ppbv
RT: 1.535 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 50 Resp: 354

Ion	Ratio	Lower	Upper
50	100		
52	57.3	25.2	37.8#



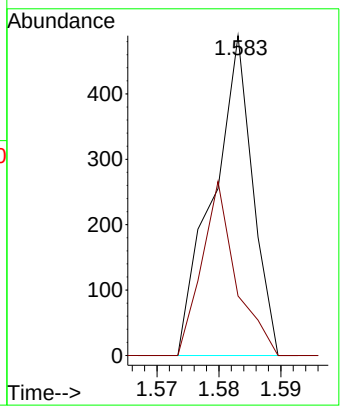


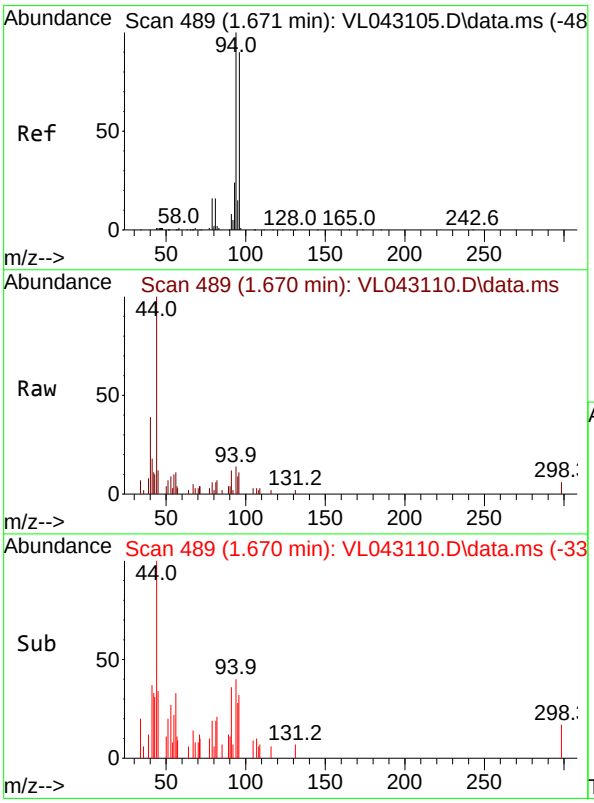
#5
Vinyl Chloride
Concen: 0.039 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 217

Ion	Ratio	Lower	Upper
62	100		
64	18.6	24.6	36.8#

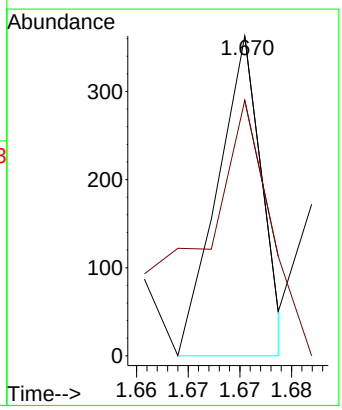


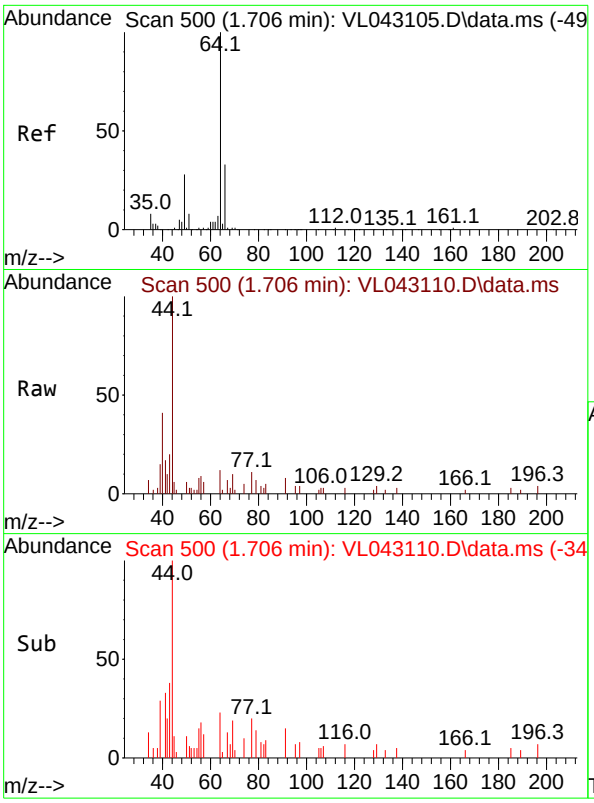


#6
Bromomethane
Concen: 0.036 ppbv
RT: 1.670 min Scan# 489
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 94 Resp: 110

Ion	Ratio	Lower	Upper
94	100		
96	48.8	72.2	108.4#



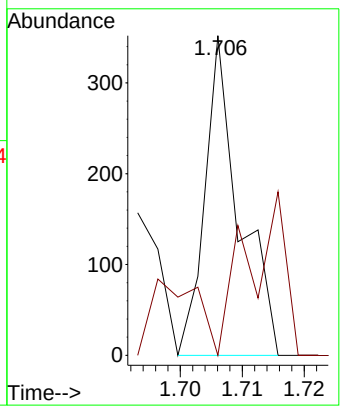


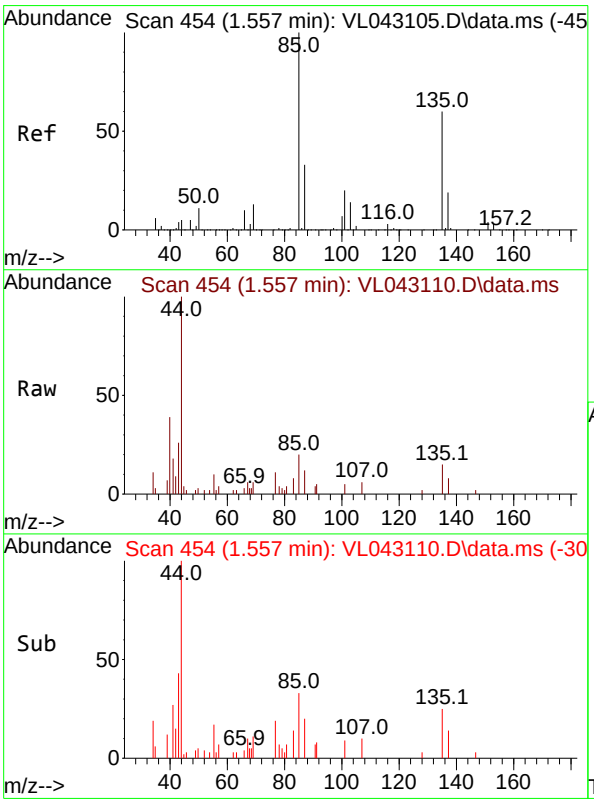
#7
Chloroethane
Concen: 0.060 ppbv
RT: 1.706 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 64 Resp: 136

Ion	Ratio	Lower	Upper
64	100		
66	0.0	26.0	39.0#

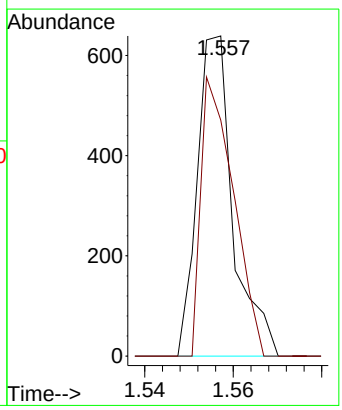


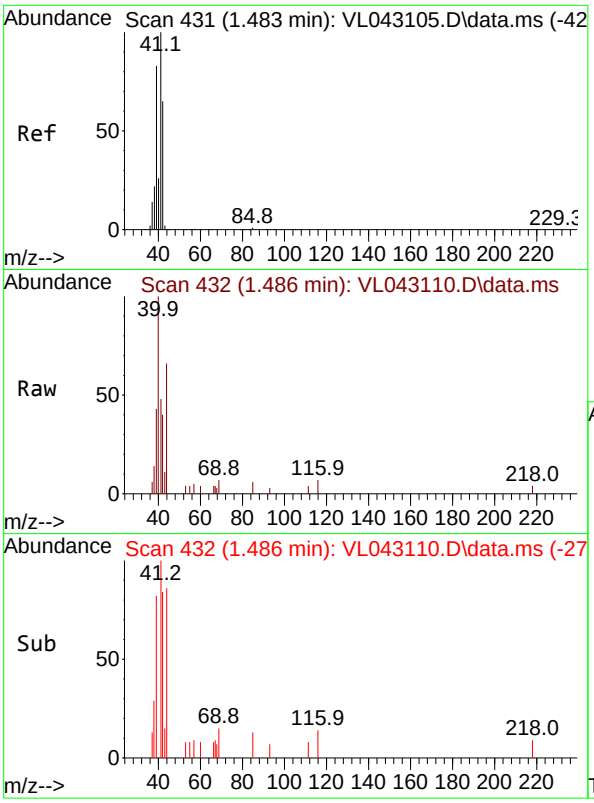


#8
Dichlorotetrafluoroethane
Concen: 0.031 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 85 Resp: 358

Ion	Ratio	Lower	Upper
85	100		
135	79.6	48.2	72.4#



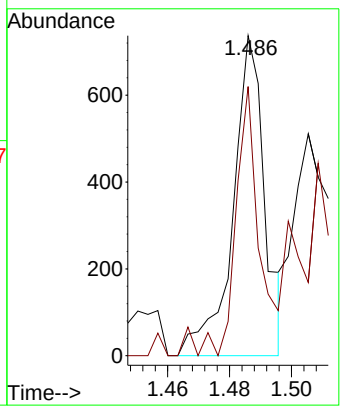


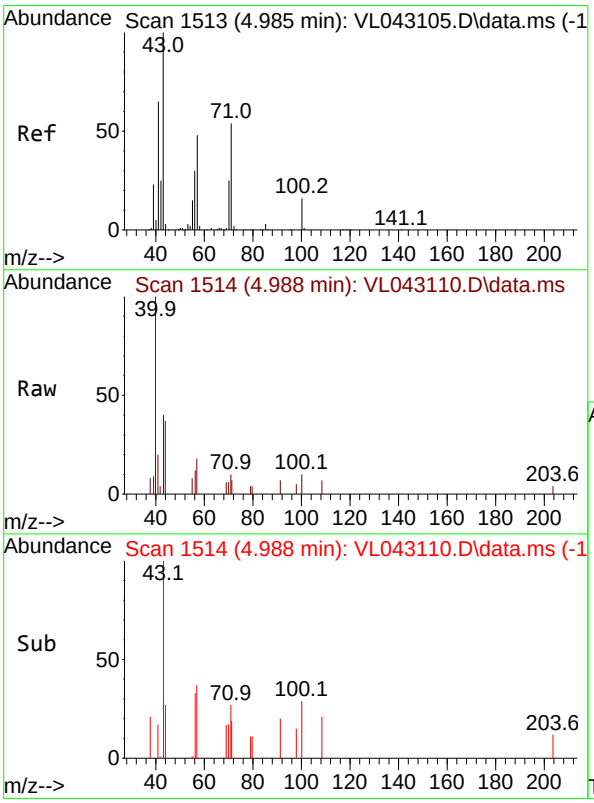
#9
Propene
Concen: 0.077 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 41 Resp: 524

Ion	Ratio	Lower	Upper
41	100		
42	154.8	55.1	82.7#

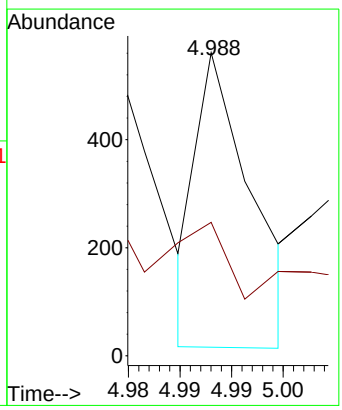


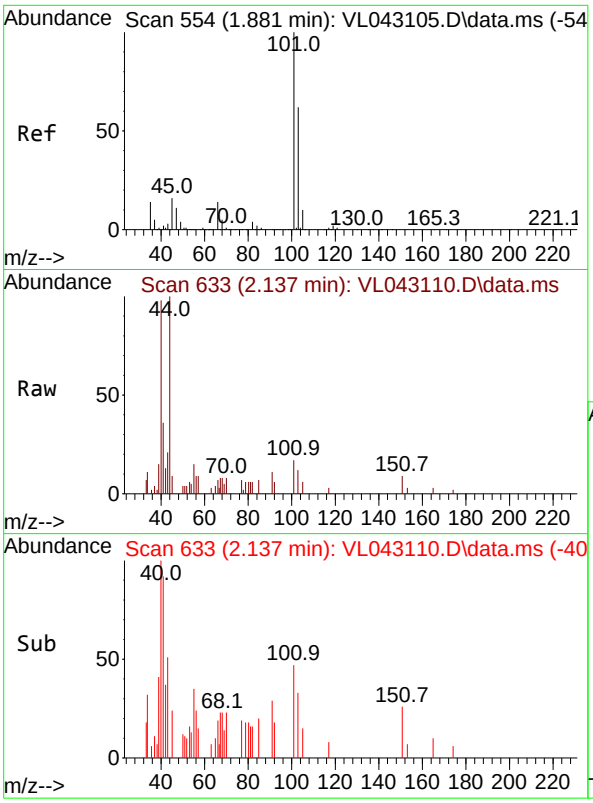


#10
Heptane
Concen: 0.010 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 43 Resp: 203

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.8	61.2#



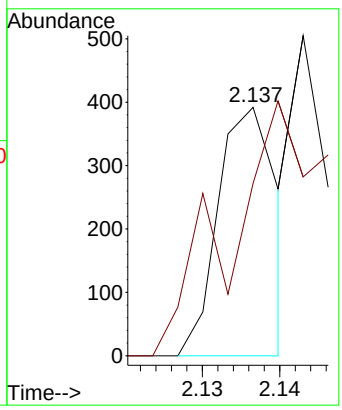


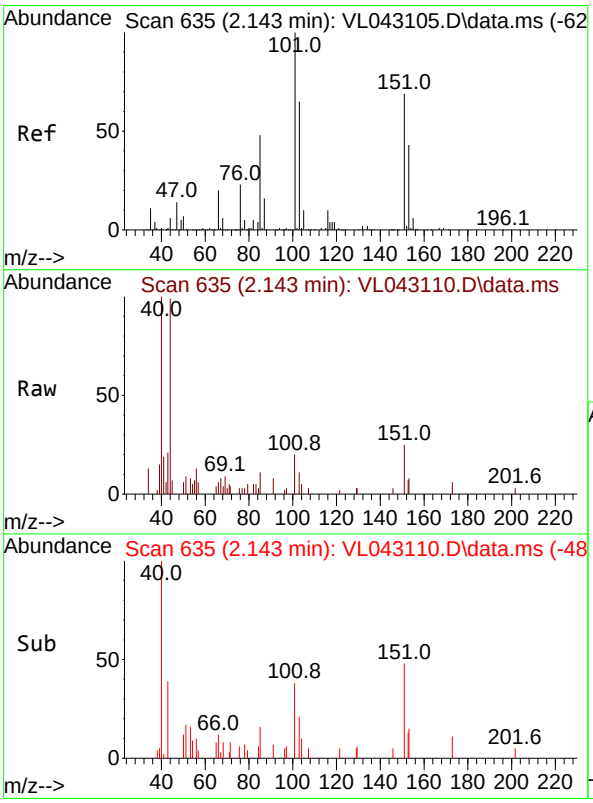
#11
Trichlorofluoromethane
Concen: 0.015 ppbv
RT: 2.137 min Scan# 6
Delta R.T. 0.256 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:101 Resp: 209

Ion	Ratio	Lower	Upper
101	100		
103	49.7	49.3	73.9

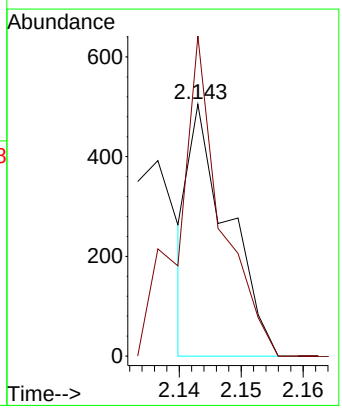


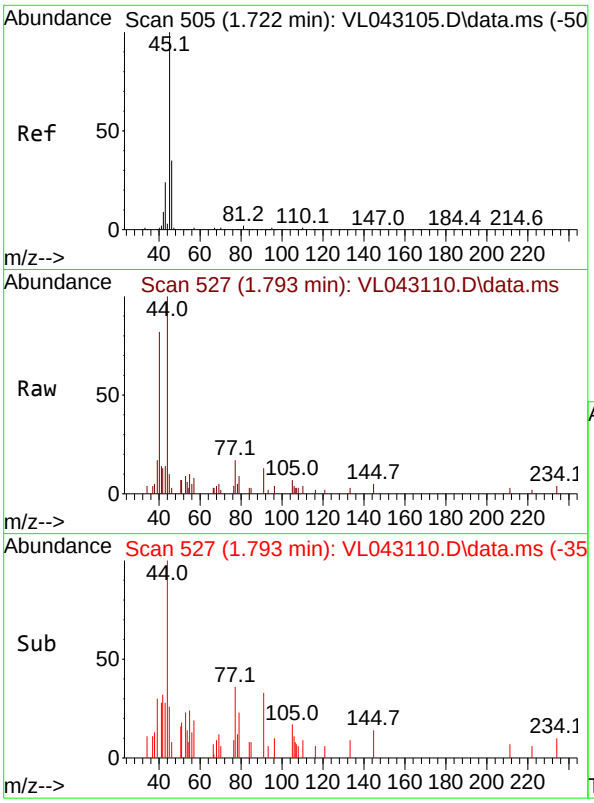


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.020 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:101 Resp: 220

Ion	Ratio	Lower	Upper
101	100		
151	139.1	54.7	82.1#



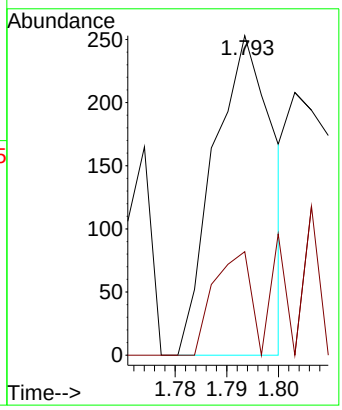


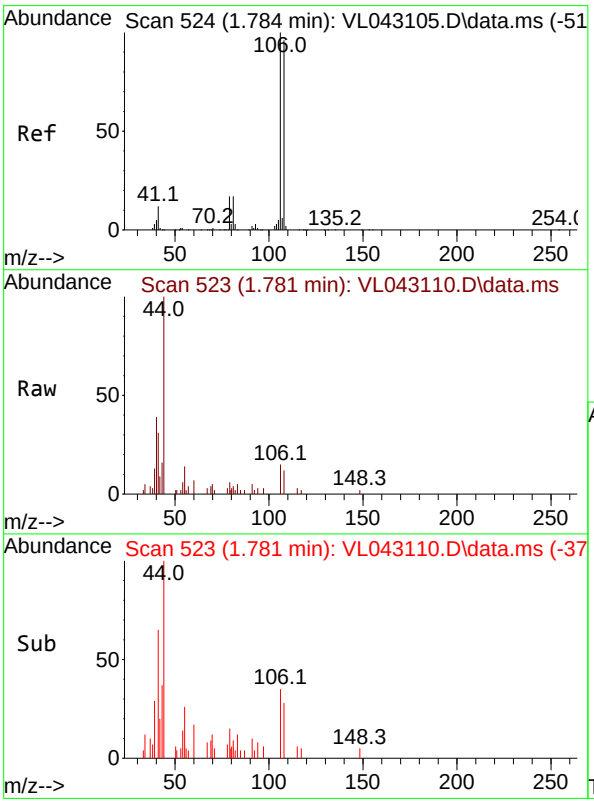
#13
Ethanol
Concen: 0.080 ppbv
RT: 1.793 min Scan# 5
Delta R.T. 0.071 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 201

Ion	Ratio	Lower	Upper
45	100		
46	146.3	14.7	58.9#

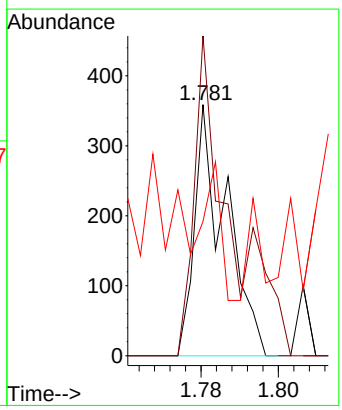


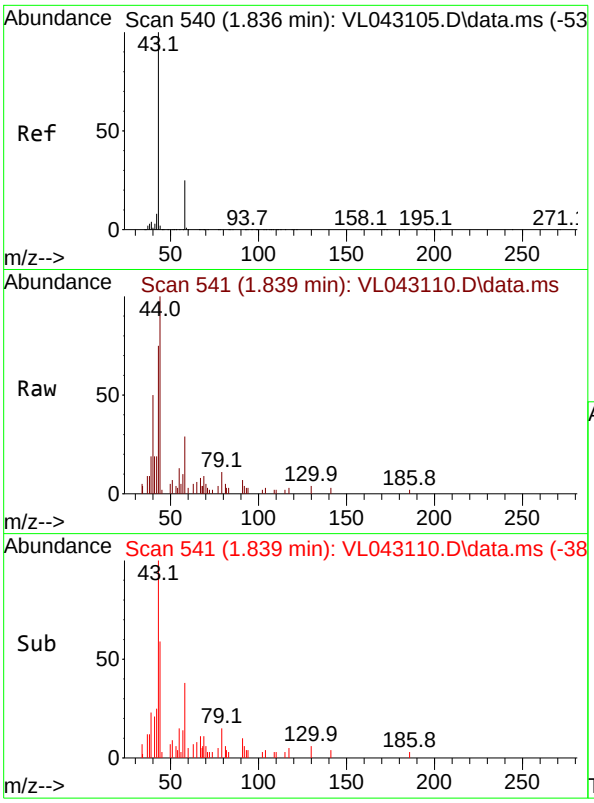


#14
Bromoethene
Concen: 0.049 ppbv
RT: 1.781 min Scan# 523
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:108 Resp: 202

Ion	Ratio	Lower	Upper
108	100		
106	144.6	84.4	126.6#
79	154.0	15.3	22.9#



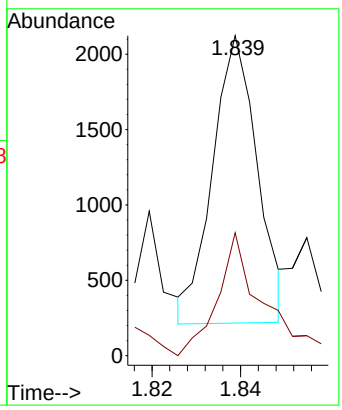


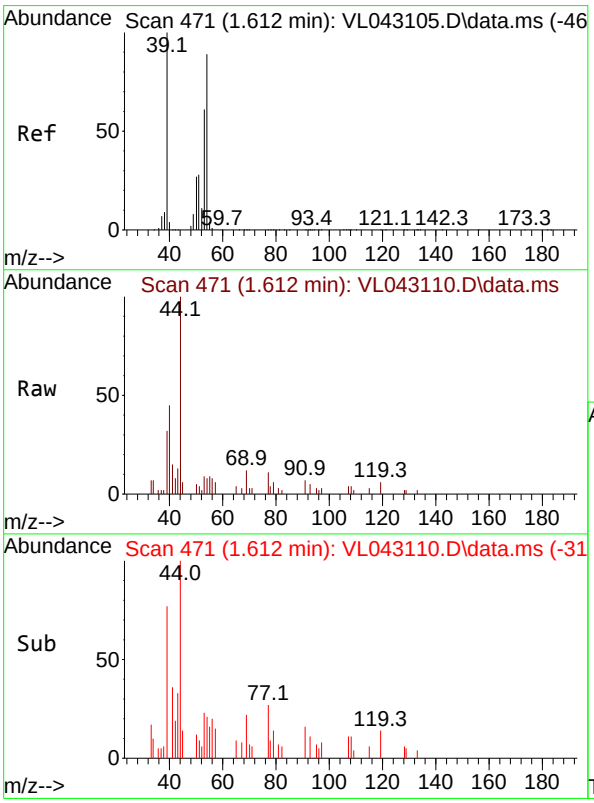
#15
Acetone
Concen: 0.099 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 1339

Ion	Ratio	Lower	Upper
43	100		
58	48.2	20.8	31.2#

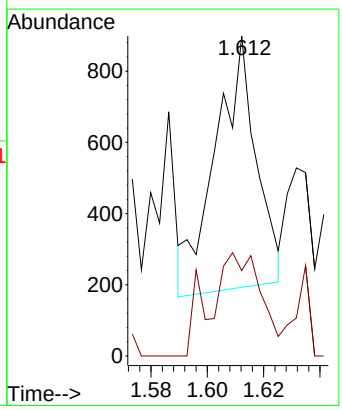


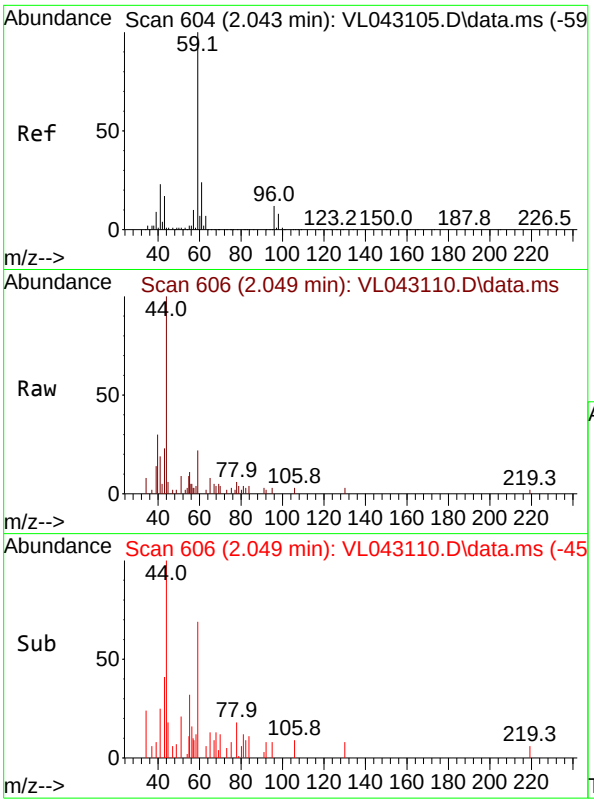


#16
1,3-Butadiene
Concen: 0.110 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 39 Resp: 710

Ion	Ratio	Lower	Upper
39	100		
54	63.4	59.0	88.4



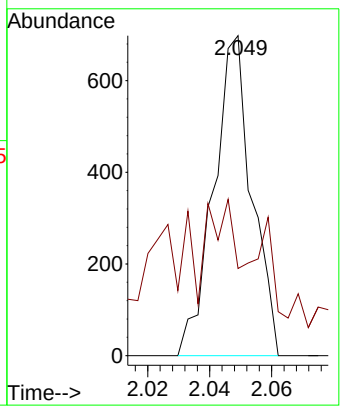


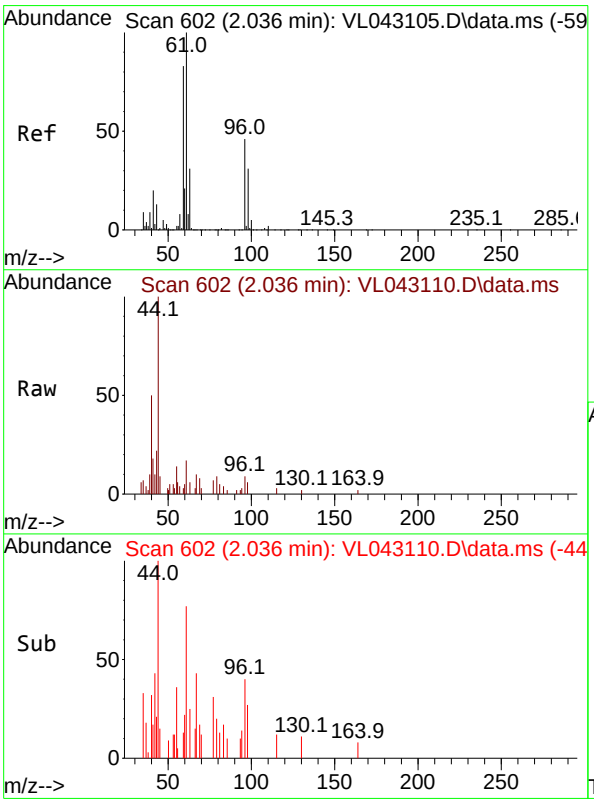
#17
tert-Butyl alcohol
Concen: 0.032 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 59 Resp: 599

Ion	Ratio	Lower	Upper
59	100		
57	72.6	8.2	12.4#

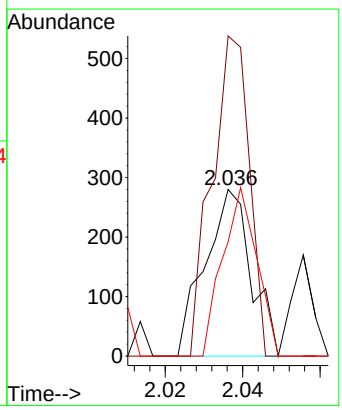


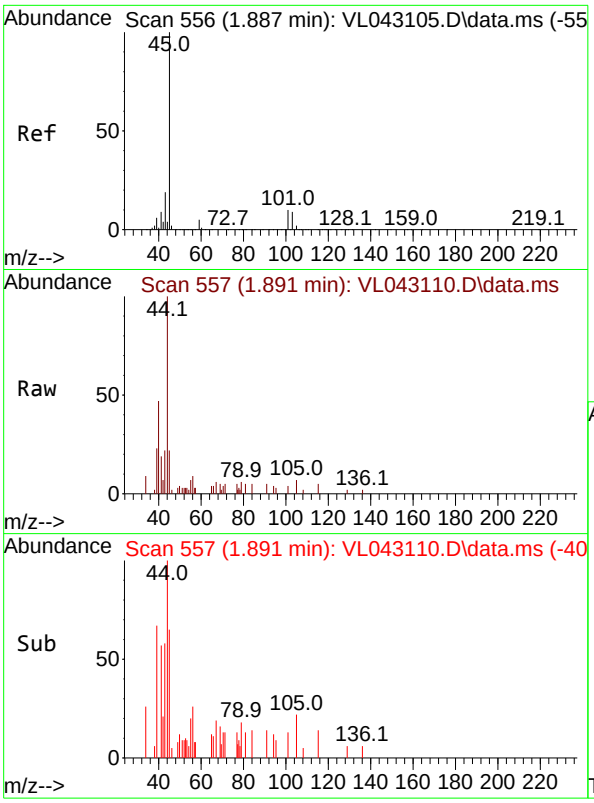


#18
1,1-Dichloroethene
Concen: 0.048 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 96 Resp: 232

Ion	Ratio	Lower	Upper
96	100		
61	192.1	173.4	260.0
98	68.6	53.2	79.8



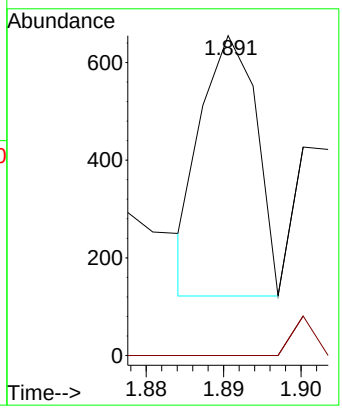


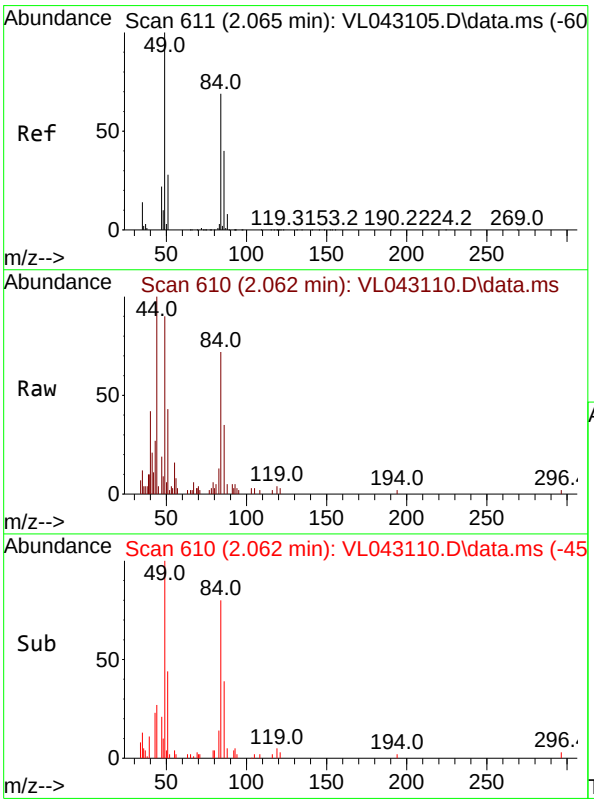
#19
Isopropyl Alcohol
Concen: 0.031 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 263

Ion	Ratio	Lower	Upper
45	100		
58	35.7	31.3	46.9

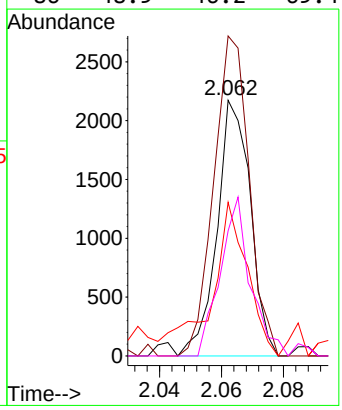


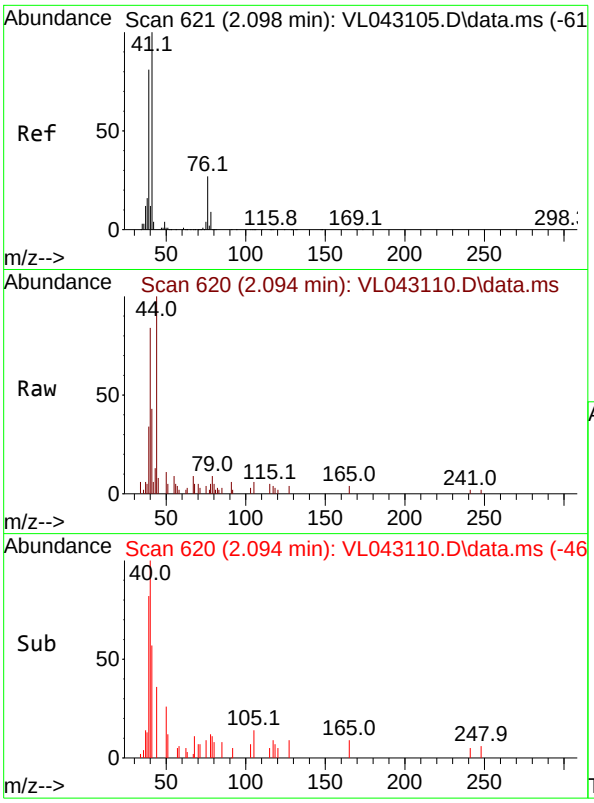


#20
Methylene Chloride
Concen: 0.305 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 84 Resp: 1624

Ion	Ratio	Lower	Upper
84	100		
49	125.2	116.6	175.0
51	60.1	34.8	52.2#
86	48.9	46.2	69.4



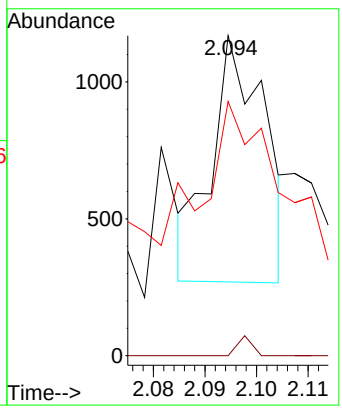


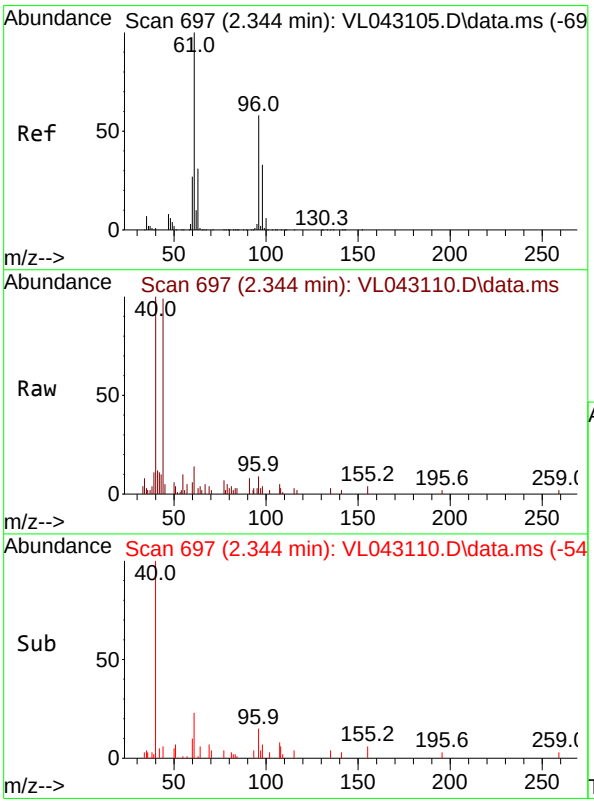
#21
Allyl Chloride
Concen: 0.065 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 41 Resp: 645

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.5	32.3#
39	263.7	60.8	91.2#

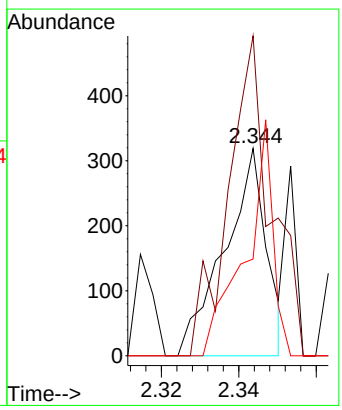


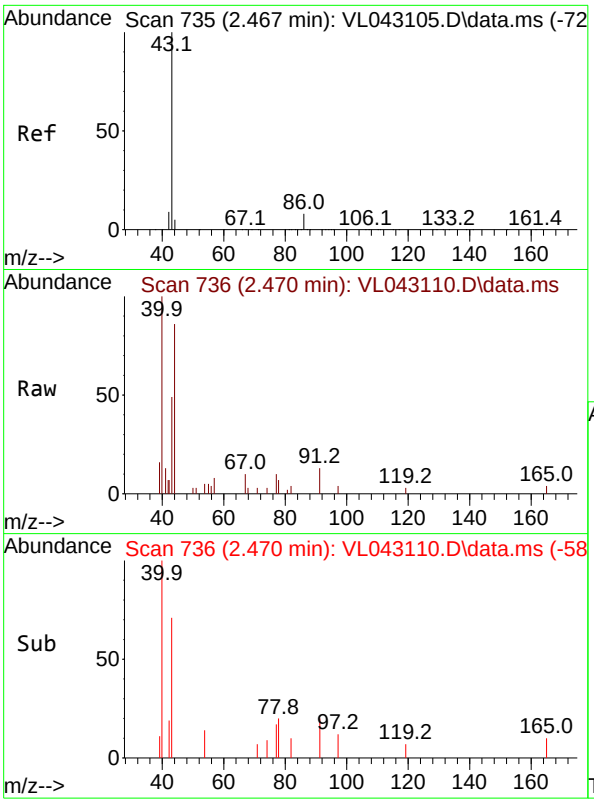


#22
trans-1,2-Dichloroethene
Concen: 0.041 ppbv
RT: 2.344 min Scan# 697
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 96 Resp: 240

Ion	Ratio	Lower	Upper
96	100		
61	154.2	137.0	205.6
98	46.7	45.5	68.3



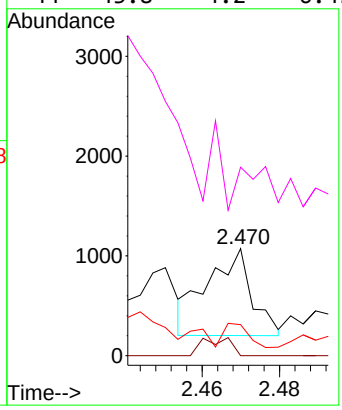


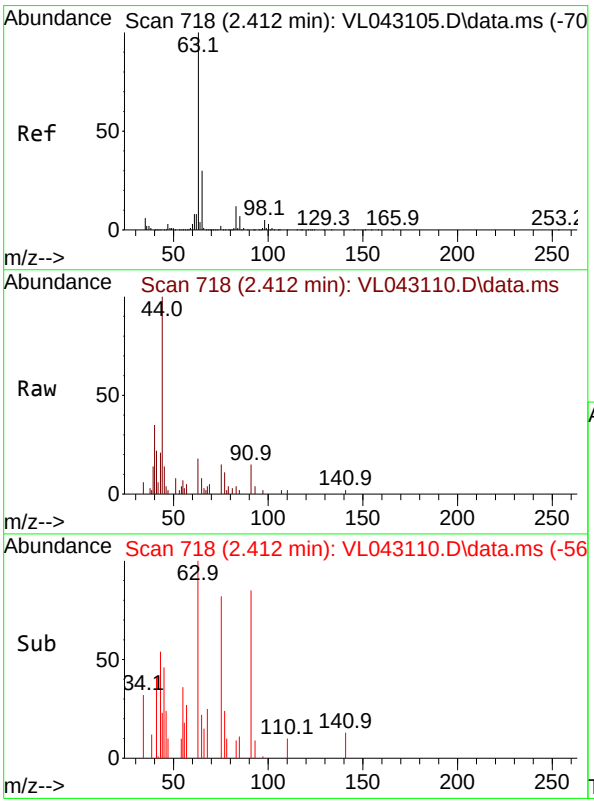
#23
Vinyl Acetate
Concen: 0.035 ppbv
RT: 2.470 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 699

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	27.9	7.6	11.4#
44	43.8	4.2	6.4#

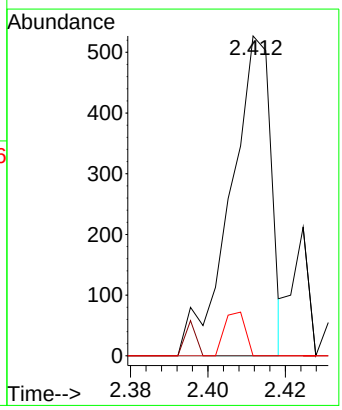


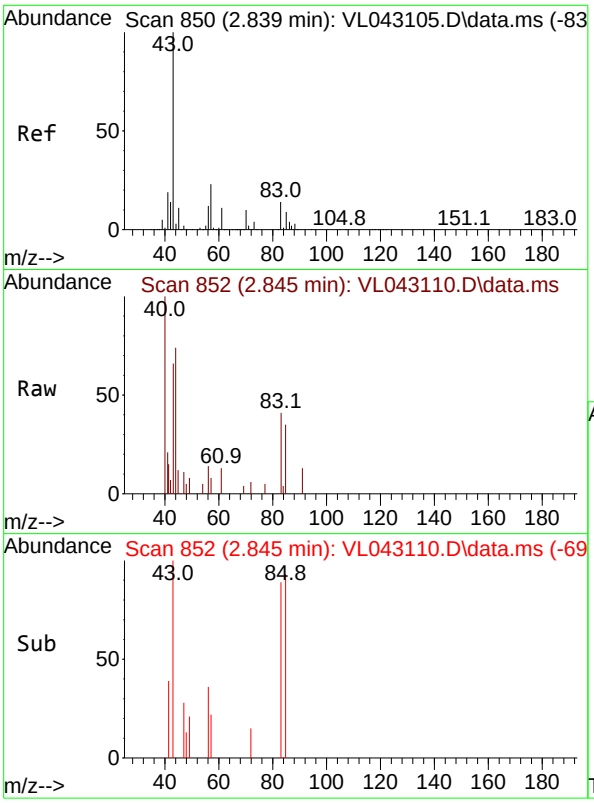


#24
1,1-Dichloroethane
Concen: 0.034 ppbv
RT: 2.412 min Scan# 718
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 63 Resp: 383

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.6	7.8#
100	0.0	1.5	4.4#



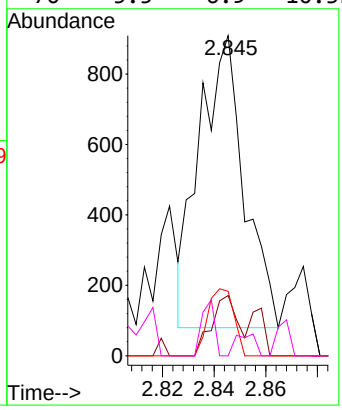


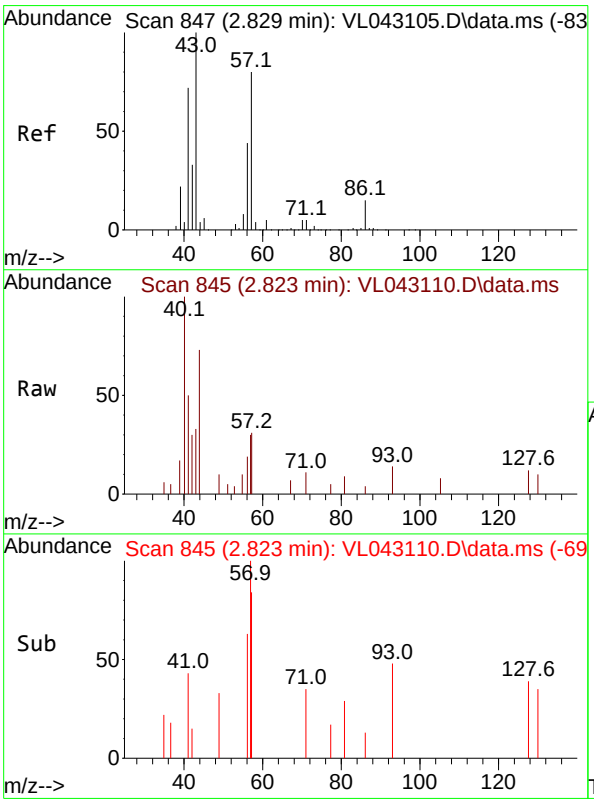
#25
Ethyl Acetate
Concen: 0.030 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 998

Ion	Ratio	Lower	Upper
43	100		
45	18.0	7.8	11.8#
61	13.2	7.0	10.6#
70	5.5	6.9	10.3#

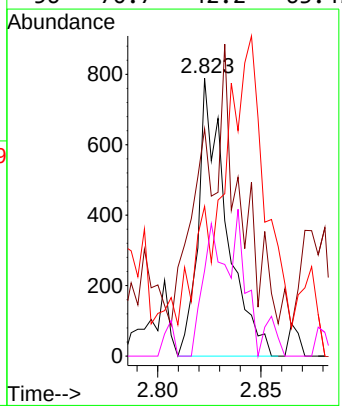


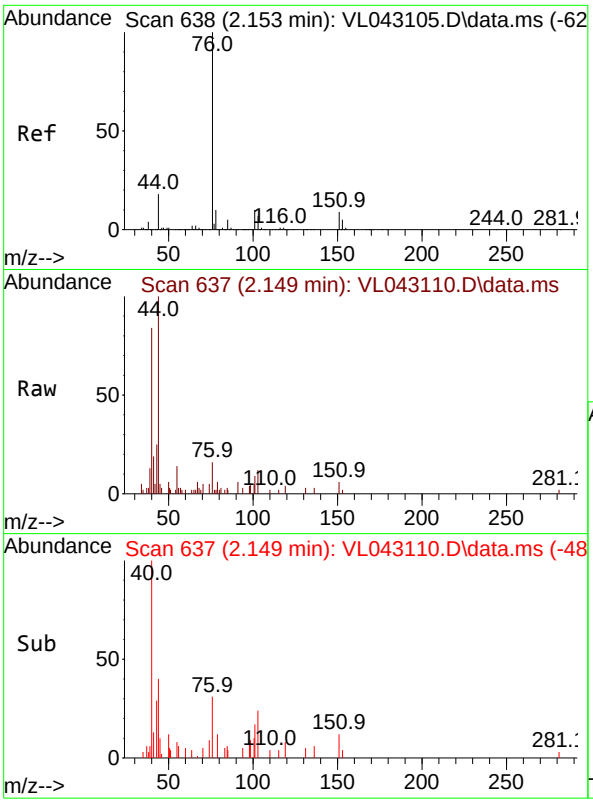


#26
Hexane
Concen: 0.048 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 57 Resp: 740

Ion	Ratio	Lower	Upper
57	100		
41	136.4	71.4	107.0#
43	230.5	178.5	267.7
56	70.7	42.2	63.4#



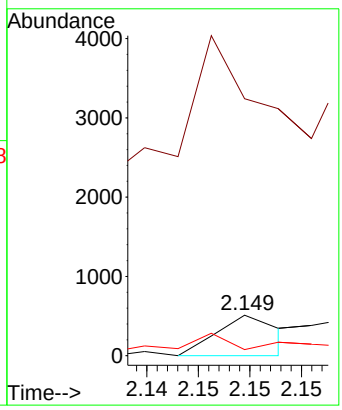


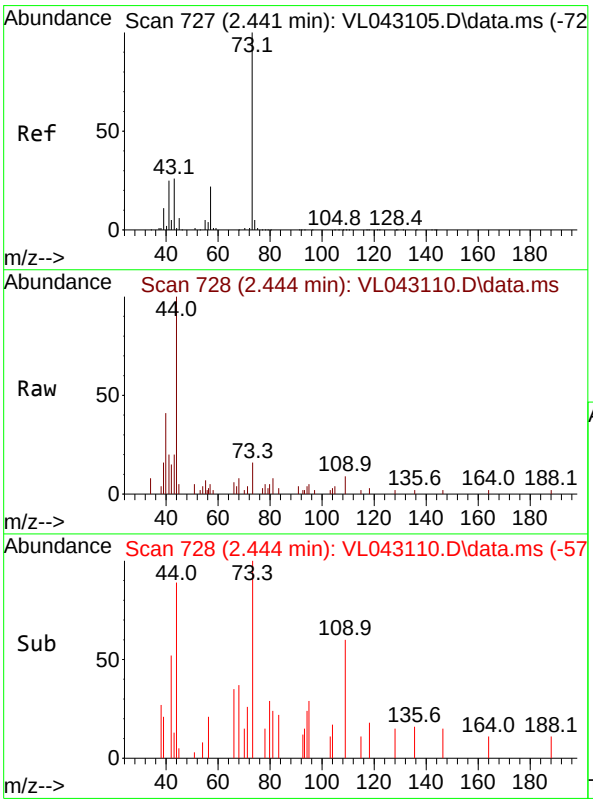
#27
Carbon Disulfide
Concen: 0.015 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 76 Resp: 215

Ion	Ratio	Lower	Upper
76	100		
44	0.0	16.7	25.1#
78	209.8	9.3	13.9#

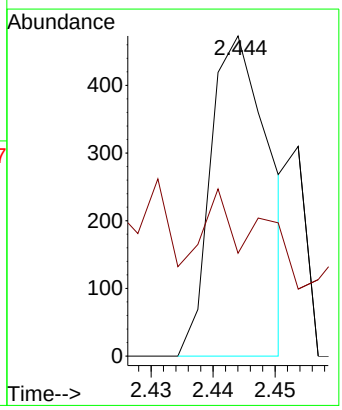


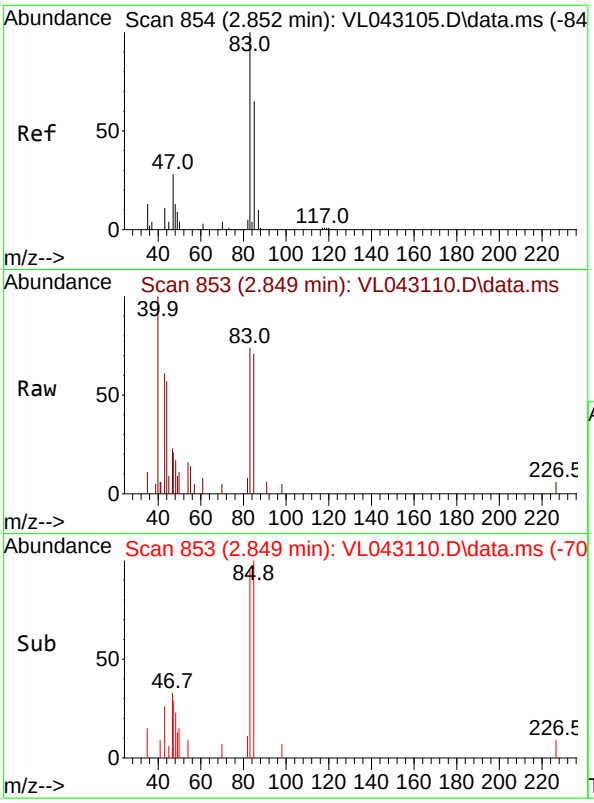


#28
Methyl tert-Butyl Ether
Concen: 0.044 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 73 Resp: 309

Ion	Ratio	Lower	Upper
73	100		
57	184.8	20.5	30.7#



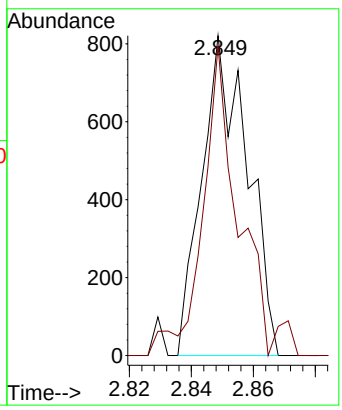


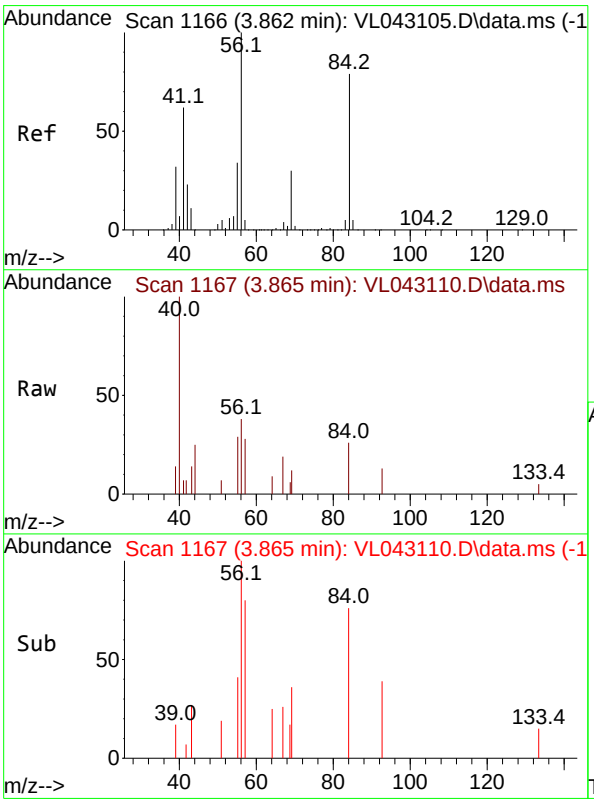
#29
Chloroform
Concen: 0.038 ppbv
RT: 2.849 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 839

Ion	Ratio	Lower	Upper
83	100		
85	90.7	51.8	77.6#

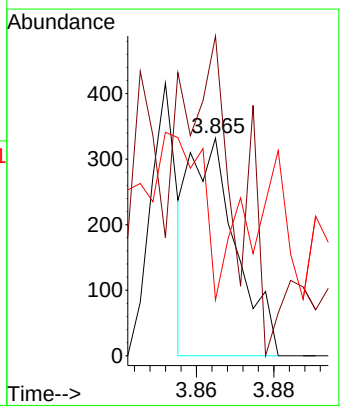


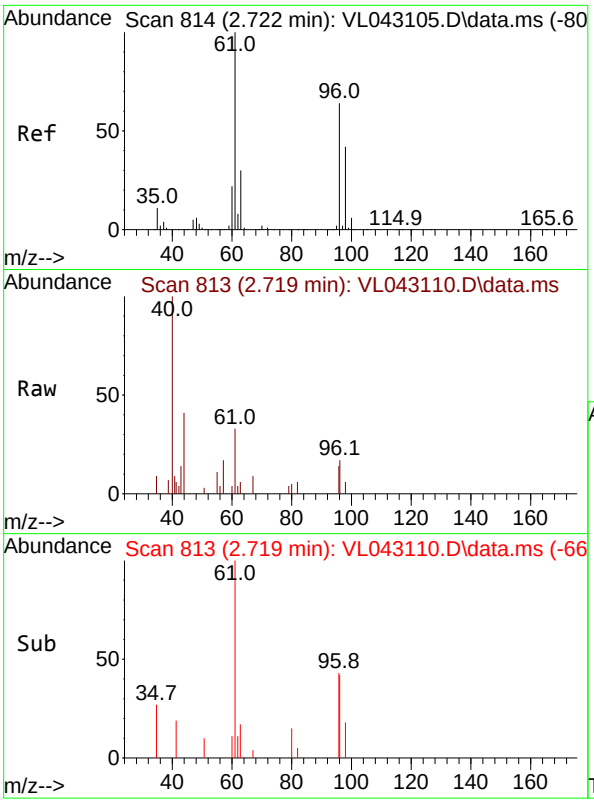


#30
Cyclohexane
Concen: 0.021 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 84 Resp: 276

Ion	Ratio	Lower	Upper
84	100		
56	324.3	100.9	151.3#
41	0.0	63.8	95.6#



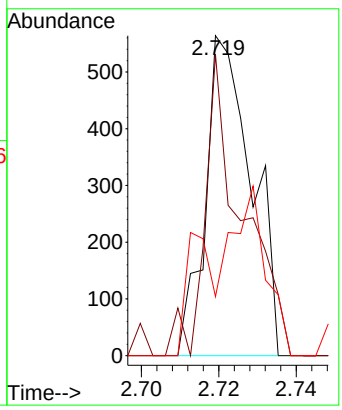


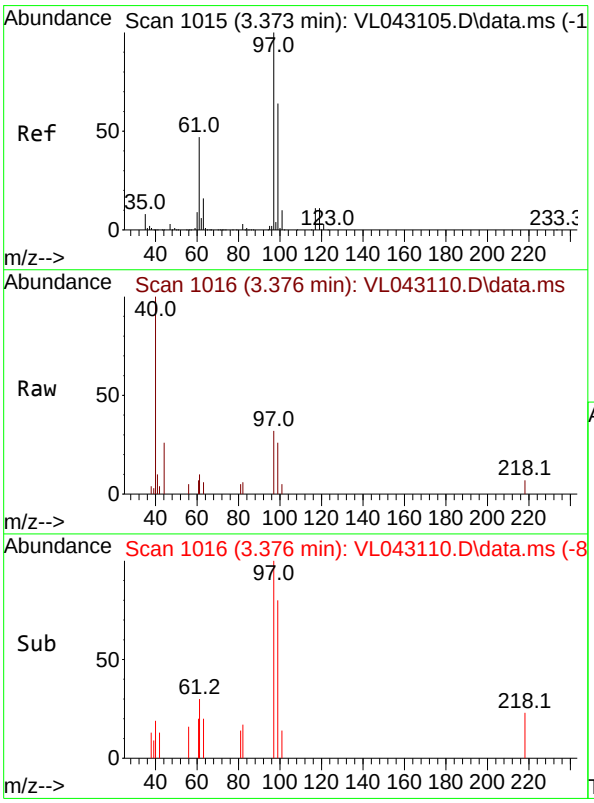
#31
cis-1,2-Dichloroethene
Concen: 0.032 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 61 Resp: 467

Ion	Ratio	Lower	Upper
61	100		
96	79.3	51.0	76.6#
98	18.4	33.5	50.3#

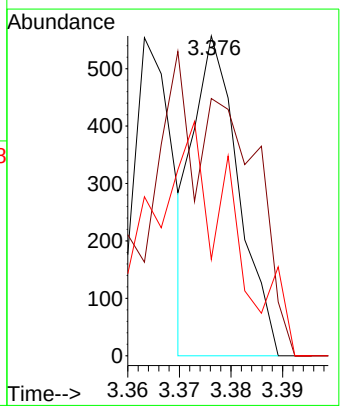


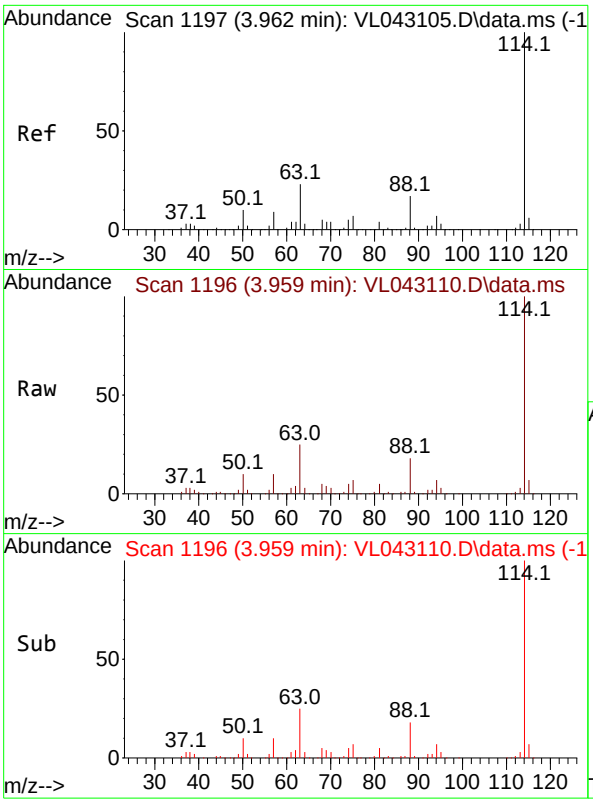


#32
1,1,1-Trichloroethane
Concen: 0.014 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 97 Resp: 336

Ion	Ratio	Lower	Upper
97	100		
99	185.7	51.3	76.9#
61	149.7	38.4	57.6#



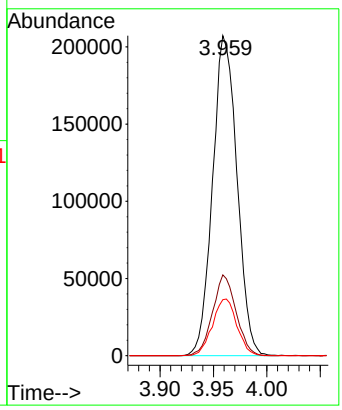


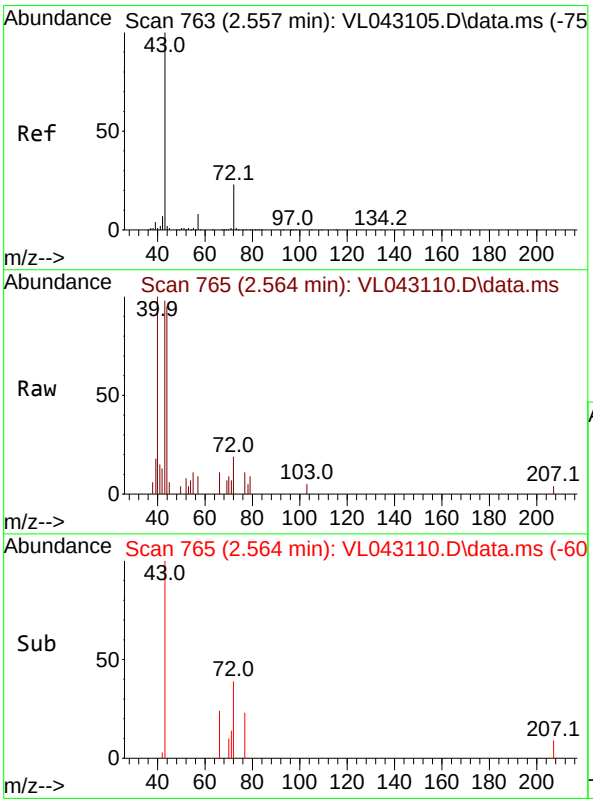
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:114 Resp: 328897

Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.3	28.9
88	17.8	13.9	20.9

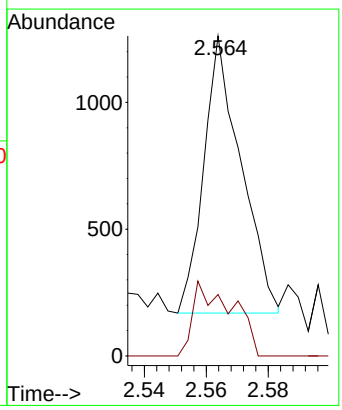


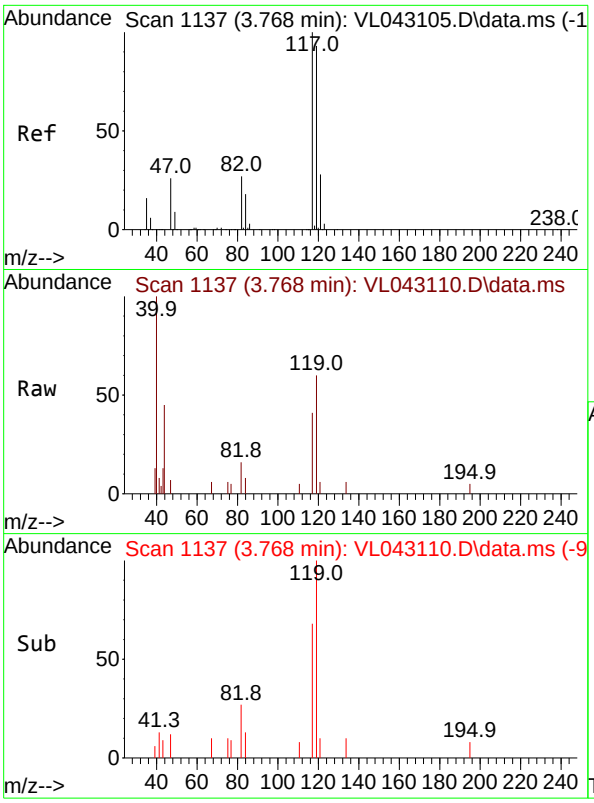


#34
2-Butanone
Concen: 0.041 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 43 Resp: 909

Ion	Ratio	Lower	Upper
43	100		
72	28.4	18.4	27.6#



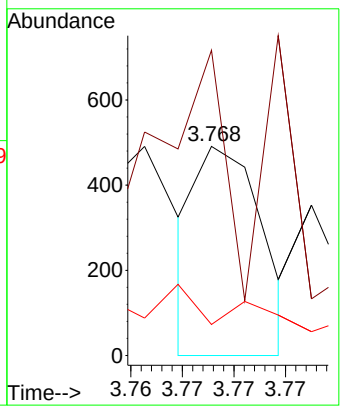


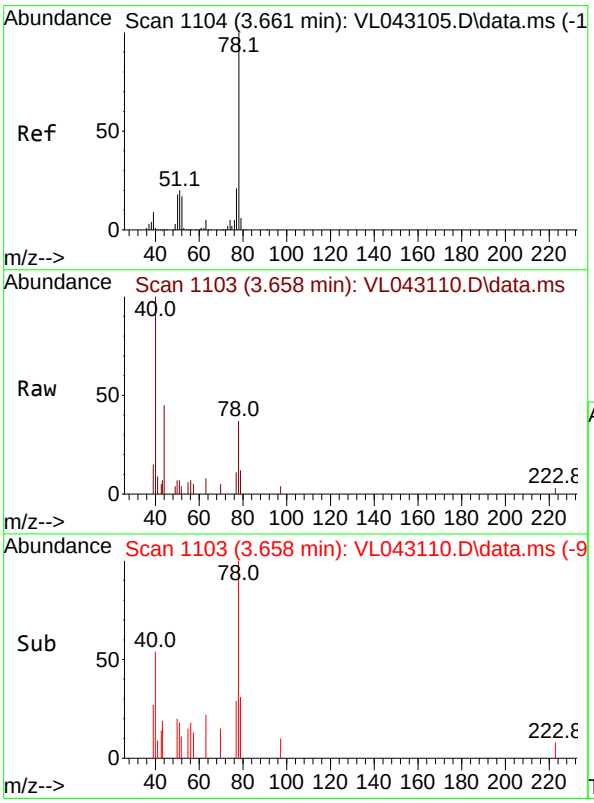
#35
Carbon Tetrachloride
Concen: 0.009 ppbv
RT: 3.768 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:117 Resp: 216

Ion	Ratio	Lower	Upper
117	100		
119	74.1	74.1	111.1
121	0.0	22.2	33.2#

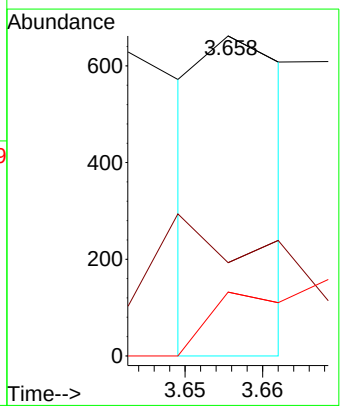


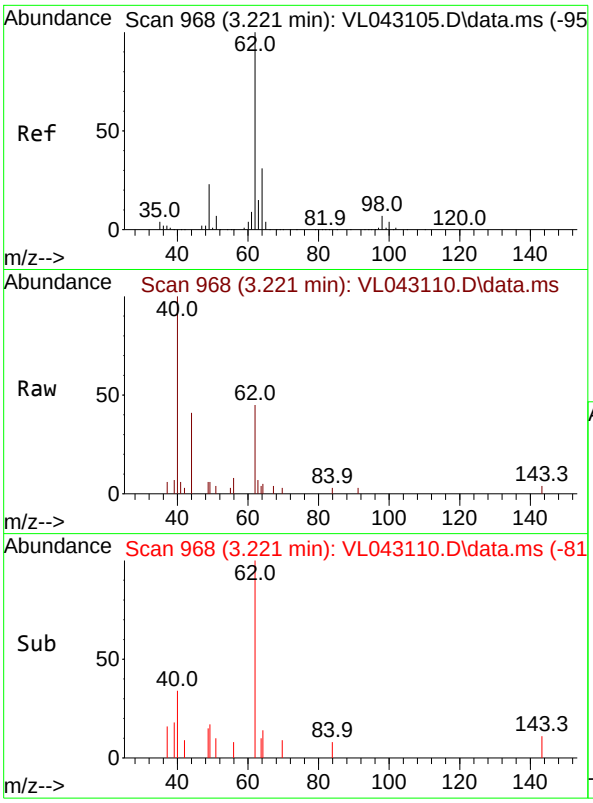


#36
Benzene
Concen: 0.008 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 78 Resp: 246

Ion	Ratio	Lower	Upper
78	100		
77	0.0	17.0	25.6#
50	244.4	14.6	22.0#



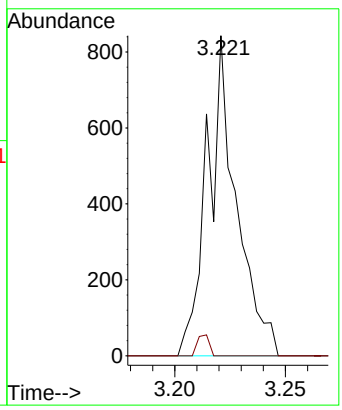


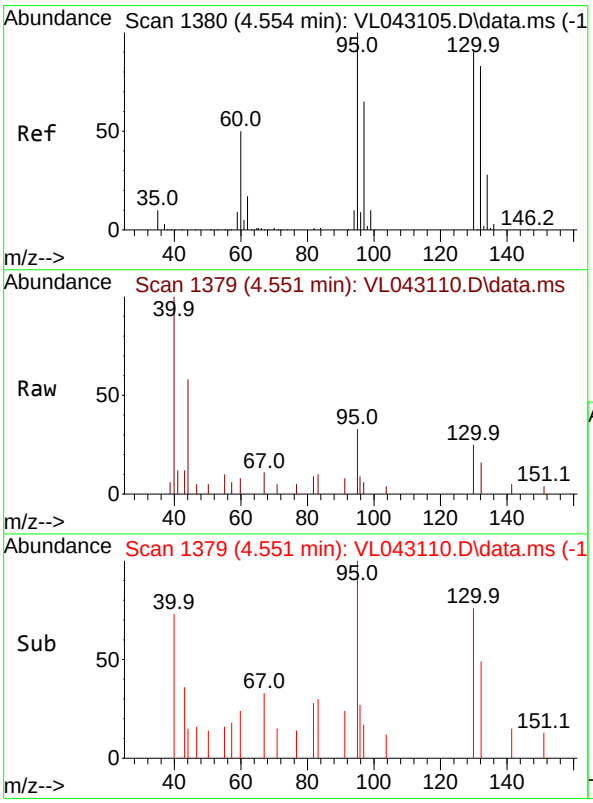
#37
1,2-Dichloroethane
Concen: 0.043 ppbv
RT: 3.221 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 772

Ion	Ratio	Lower	Upper
62	100		
98	2.7	5.8	8.6#

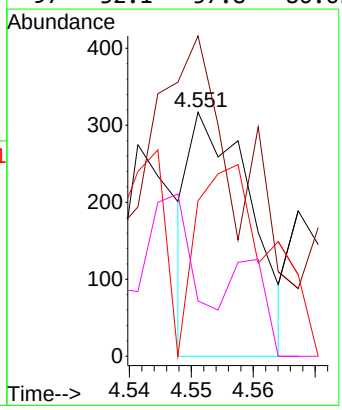


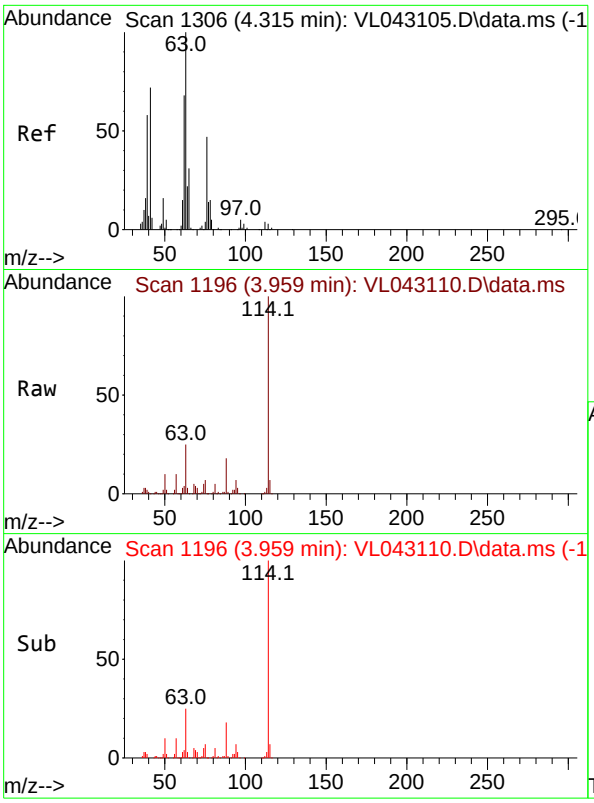


#38
Trichloroethene
Concen: 0.017 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:130 Resp: 216

Ion	Ratio	Lower	Upper
130	100		
95	136.6	88.6	133.0#
132	90.2	73.4	110.0
97	32.1	57.8	86.6#



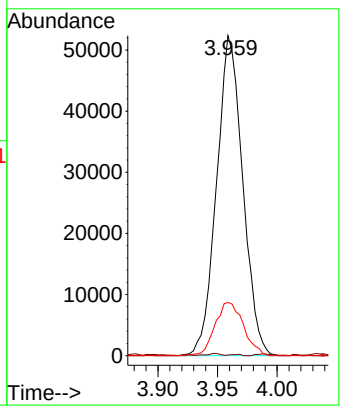


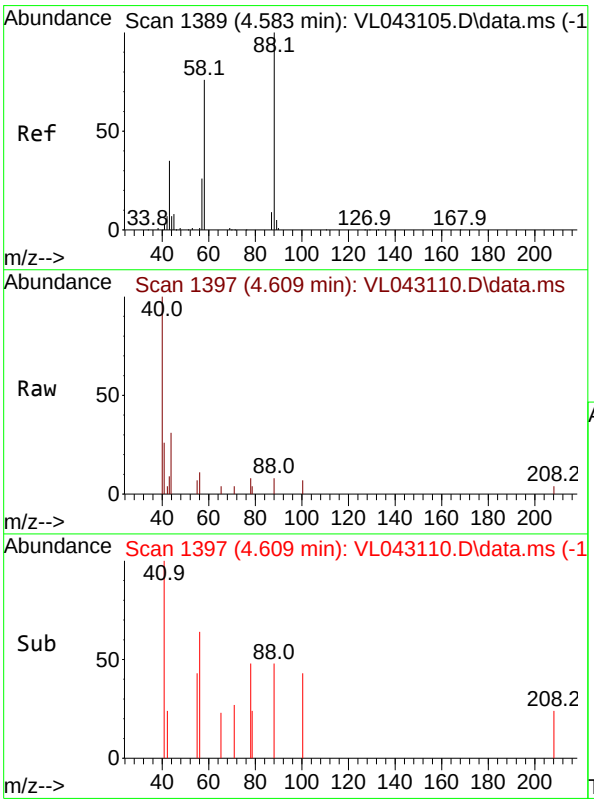
#39
1,2-Dichloropropane
Concen: 7.052 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.356 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 63 Resp: 79938

Ion	Ratio	Lower	Upper
63	100		
41	0.2	58.0	87.0#
62	16.7	54.7	82.1#

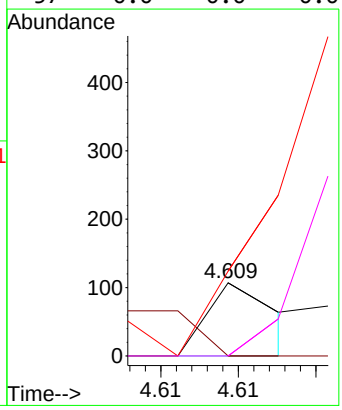


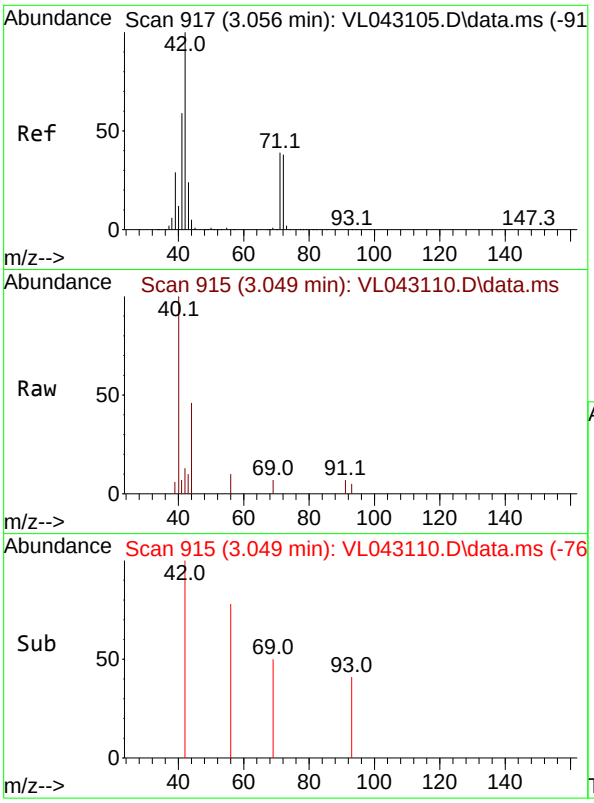


#40
1,4-Dioxane
Concen: 0.007 ppbv
RT: 4.609 min Scan# 1397
Delta R.T. 0.026 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 88 Resp: 33

Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	303.0	24.0	36.0#
57	0.0	0.0	0.0



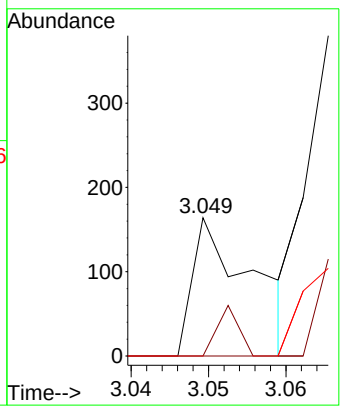


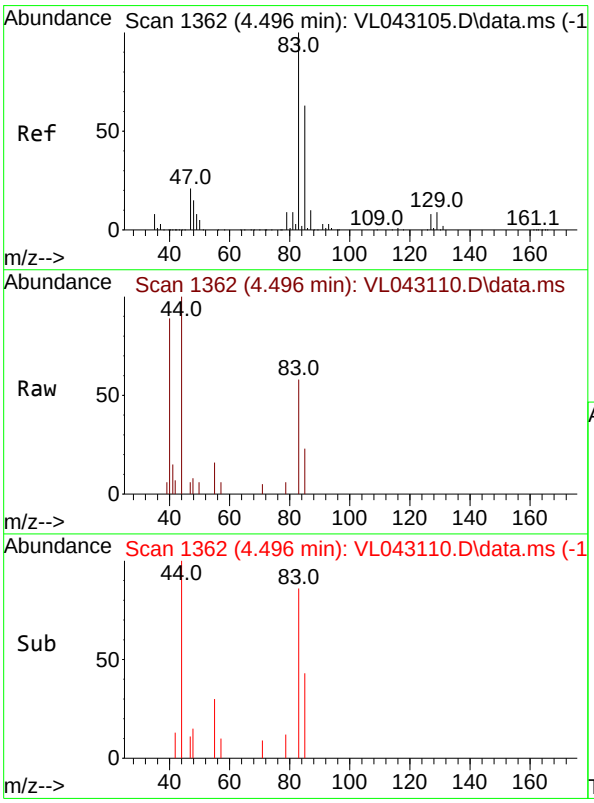
#41
Tetrahydrofuran
Concen: 0.007 ppbv
RT: 3.049 min Scan# 91
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 42 Resp: 87

Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.3	46.9#
71	0.0	30.4	45.6#

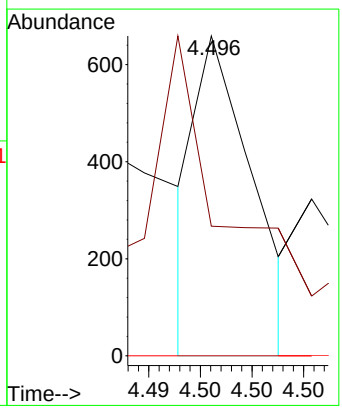


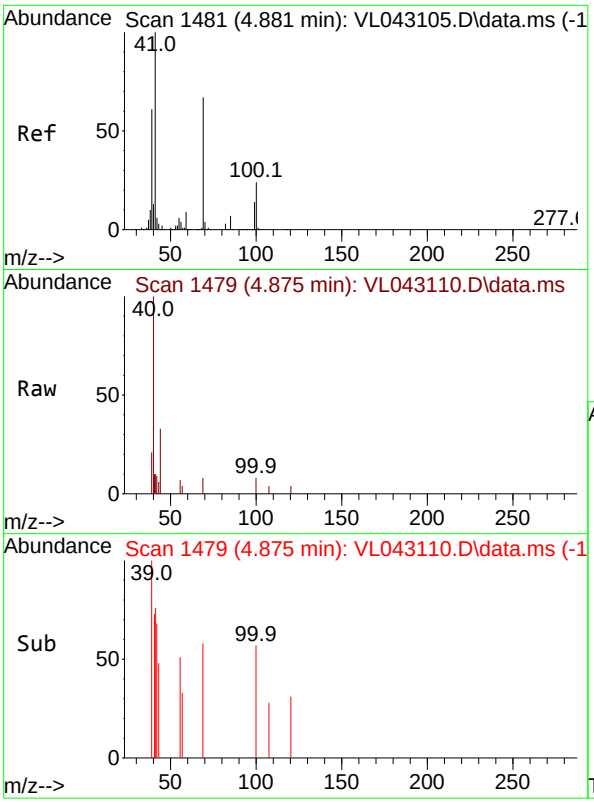


#42
Bromodichloromethane
Concen: 0.010 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 83 Resp: 250

Ion	Ratio	Lower	Upper
83	100		
85	0.9	50.6	75.8#
127	0.0	6.3	9.5#



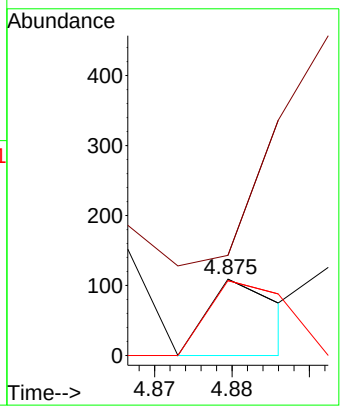


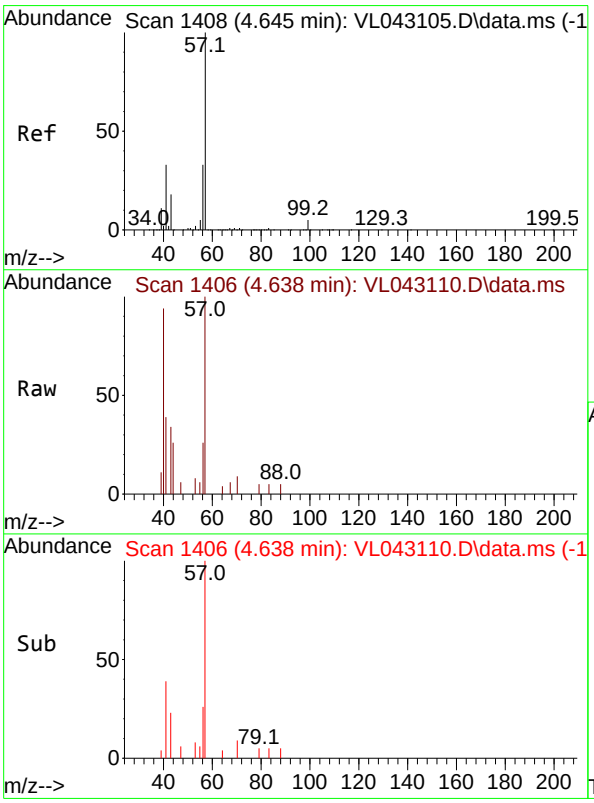
#43
Methyl Methacrylate
Concen: 0.002 ppbv
RT: 4.875 min Scan# 14
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 69 Resp: 36

Ion	Ratio	Lower	Upper
69	100		
41	0.0	120.5	180.7#
100	0.0	29.0	43.4#

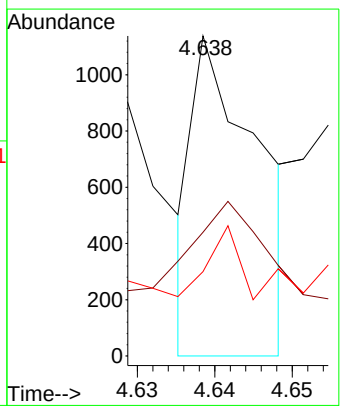


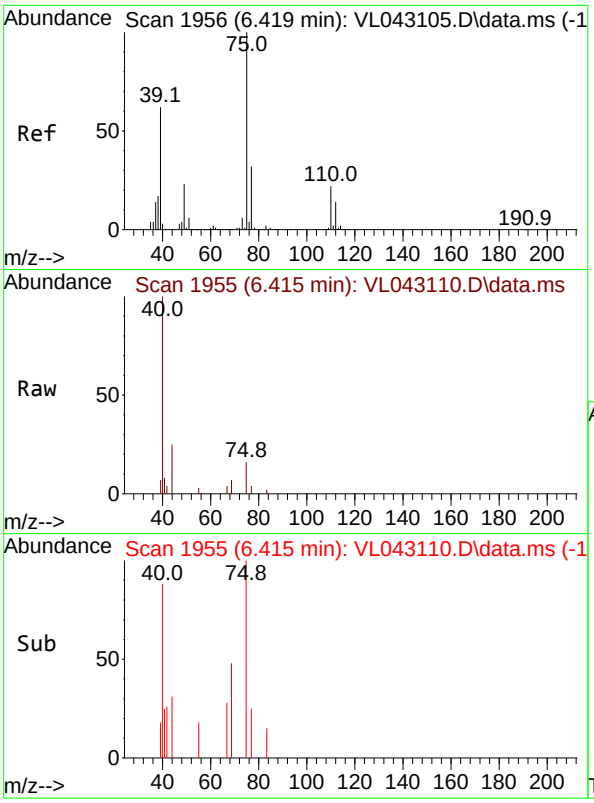


#44
2,2,4-Trimethylpentane
Concen: 0.013 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 57 Resp: 669

Ion	Ratio	Lower	Upper
57	100		
41	234.7	26.3	39.5#
56	122.3	25.9	38.9#



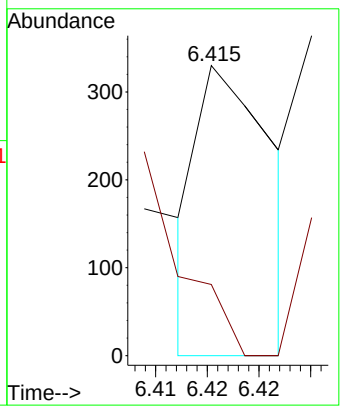


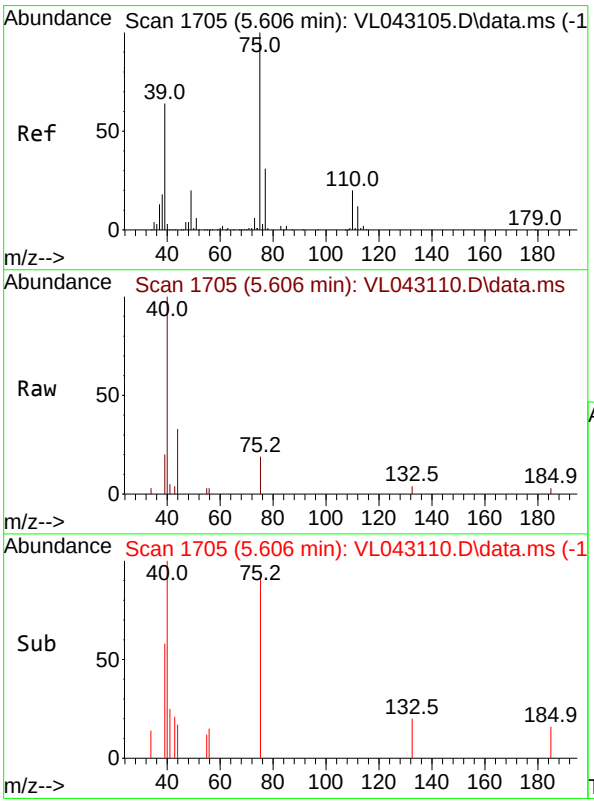
#45
t-1,3-Dichloropropene
Concen: 0.010 ppbv
RT: 6.415 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 75 Resp: 165

Ion	Ratio	Lower	Upper
75	100		
77	24.5	25.4	38.2#

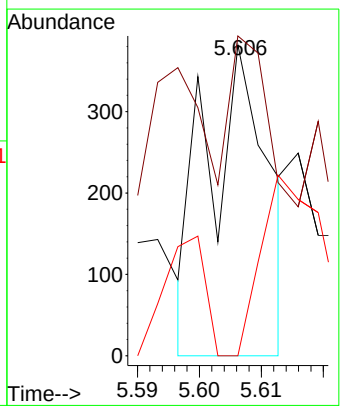


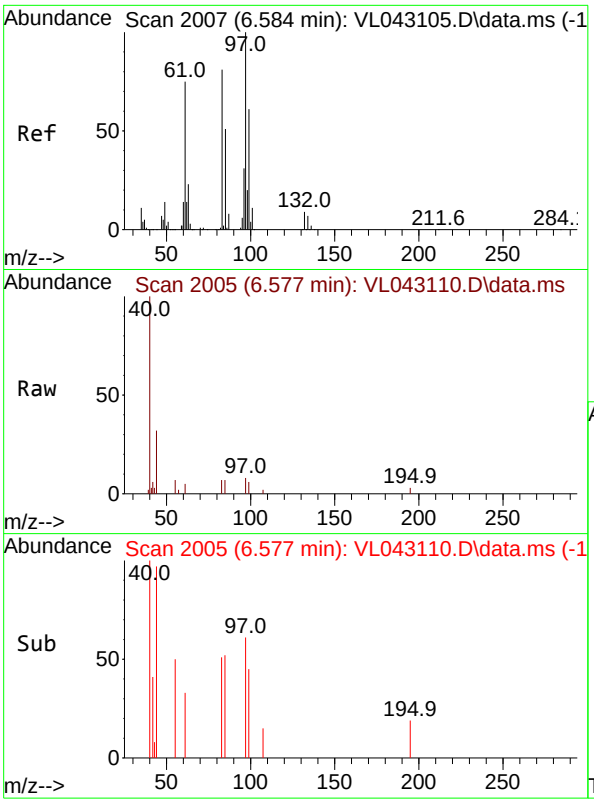


#46
cis-1,3-Dichloropropene
Concen: 0.014 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 75 Resp: 261

Ion	Ratio	Lower	Upper
75	100		
39	62.3	51.0	76.6
77	0.0	25.0	37.4#



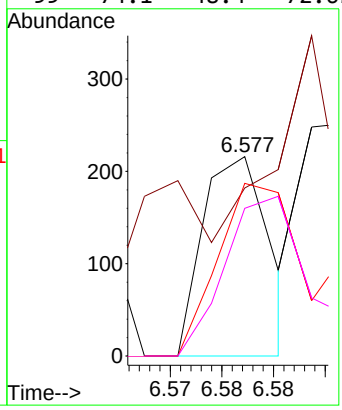


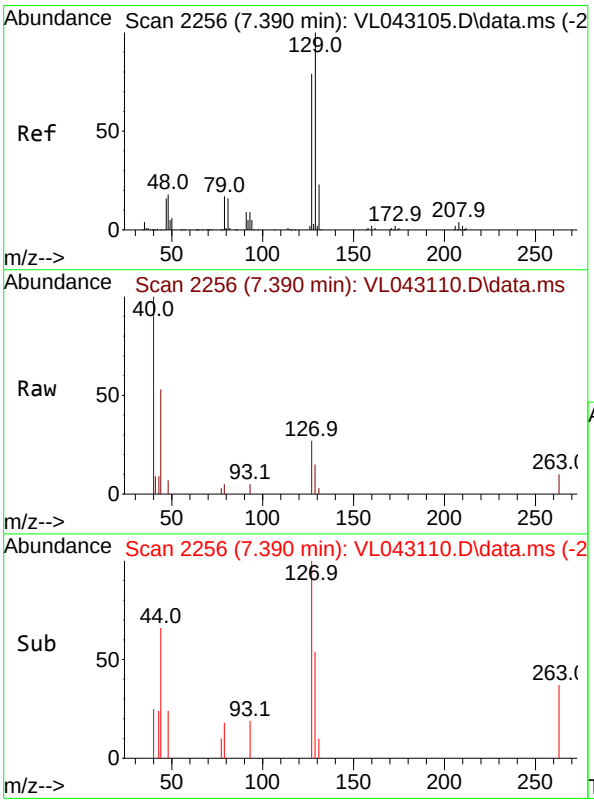
#47
1,1,2-Trichloroethane
Concen: 0.008 ppbv
RT: 6.577 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 97 Resp: 98

Ion	Ratio	Lower	Upper
97	100		
83	0.0	64.6	96.8#
85	86.6	40.6	60.8#
99	74.1	48.4	72.6#

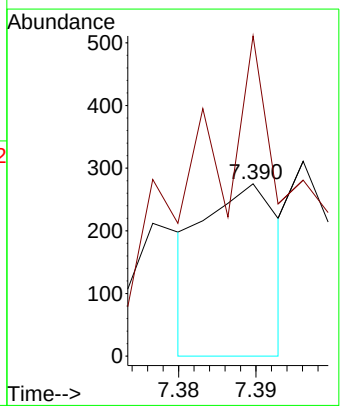


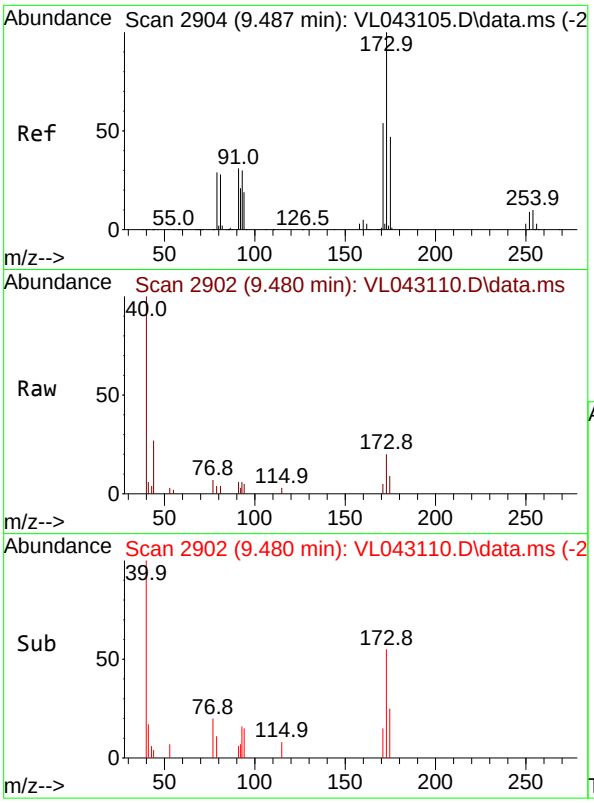


#48
Dibromochloromethane
Concen: 0.009 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:129 Resp: 186

Ion	Ratio	Lower	Upper
129	100		
127	311.3	39.3	117.9#



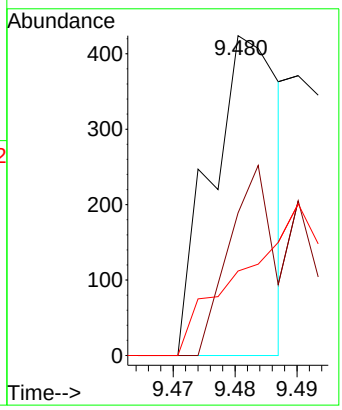


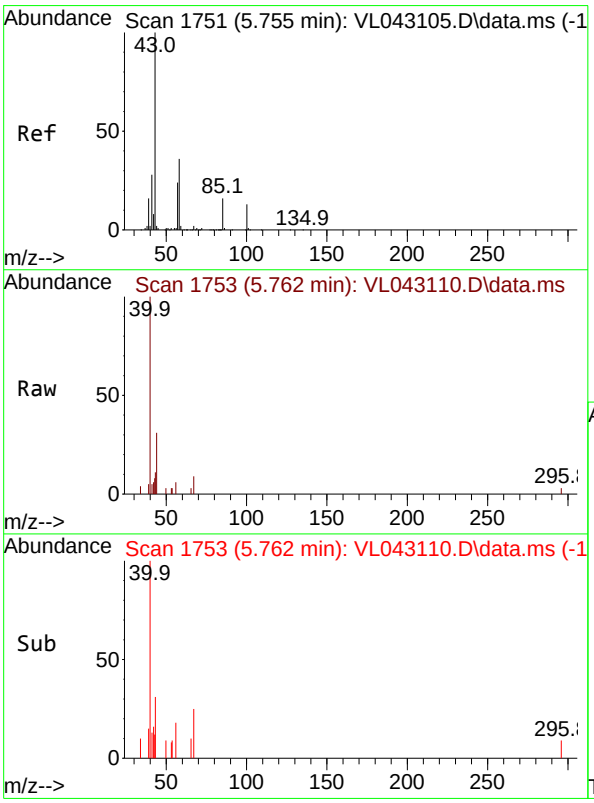
#49
Bromoform
Concen: 0.019 ppbv
RT: 9.480 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:173 Resp: 323

Ion	Ratio	Lower	Upper
173	100		
175	56.3	38.8	58.2
171	0.0	41.7	62.5#

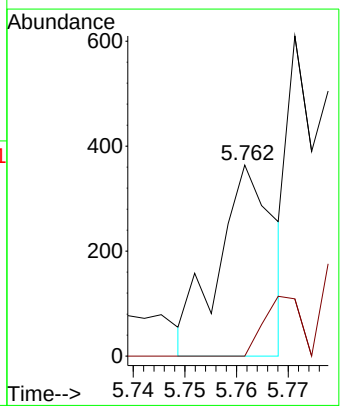


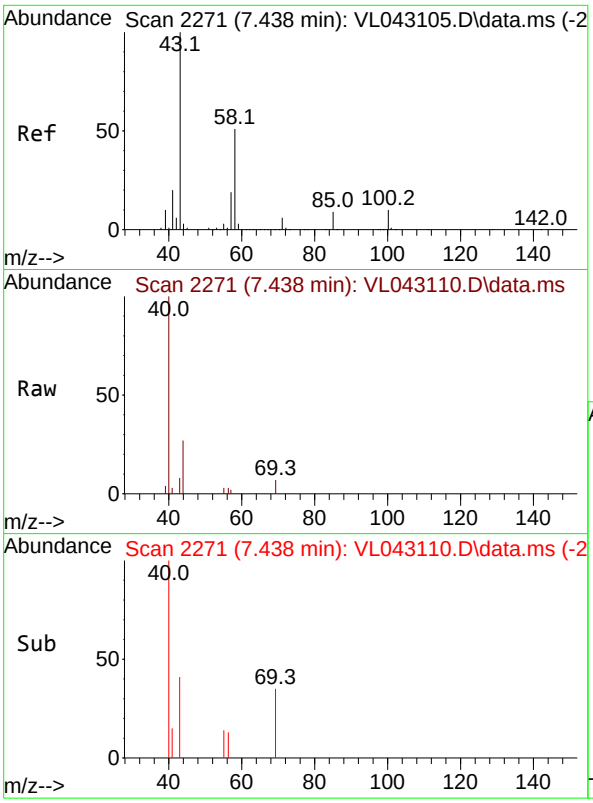


#50
4-Methyl-2-Pentanone
Concen: 0.009 ppbv
RT: 5.762 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 43 Resp: 271

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7#



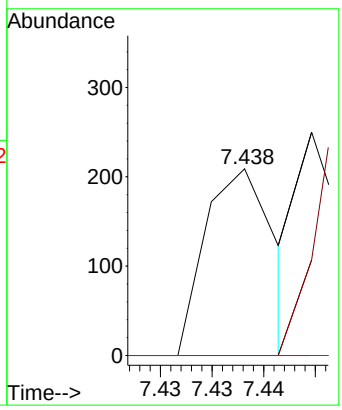


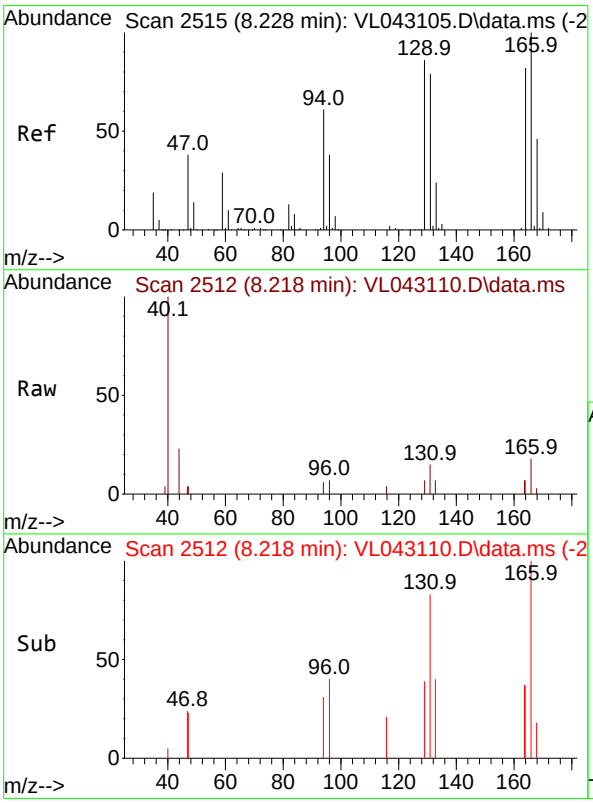
#51
2-Hexanone
Concen: 0.004 ppbv
RT: 7.438 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 98

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.4	60.6#
98	0.0	0.1	0.1#

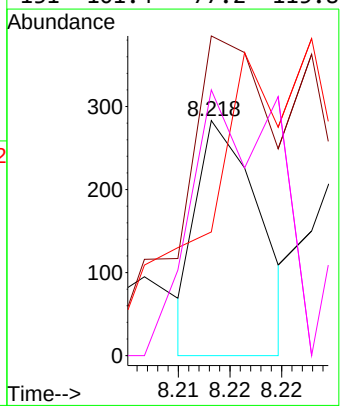


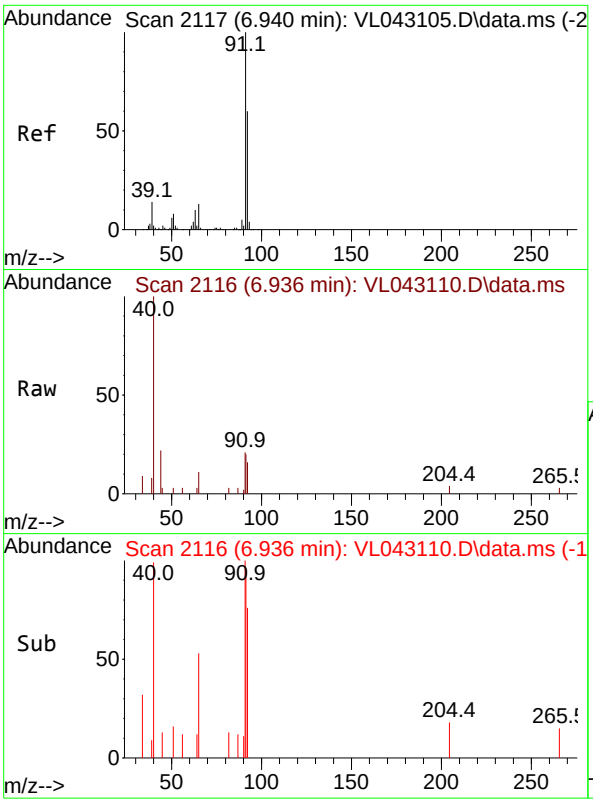


#52
Tetrachloroethene
Concen: 0.011 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:164 Resp: 120

Ion	Ratio	Lower	Upper
164	100		
166	125.2	97.6	146.4
129	8.9	84.5	126.7#
131	101.4	77.2	115.8



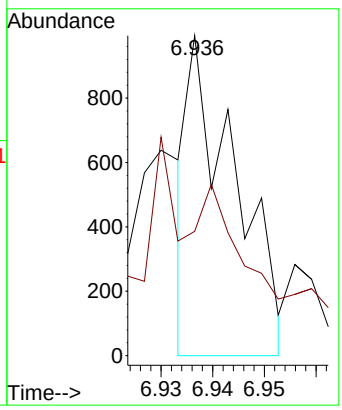


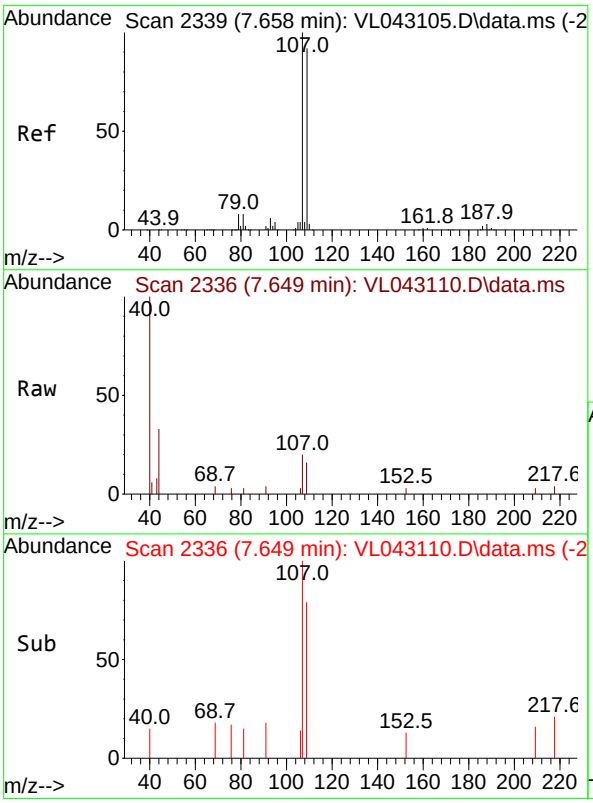
#53
Toluene
Concen: 0.017 ppbv
RT: 6.936 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 632

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.8	73.2#

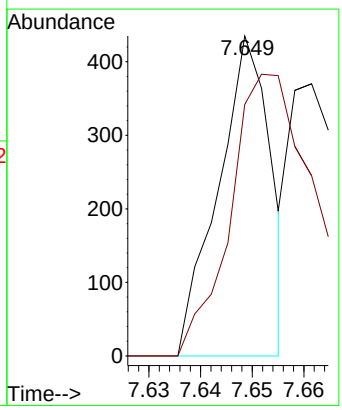


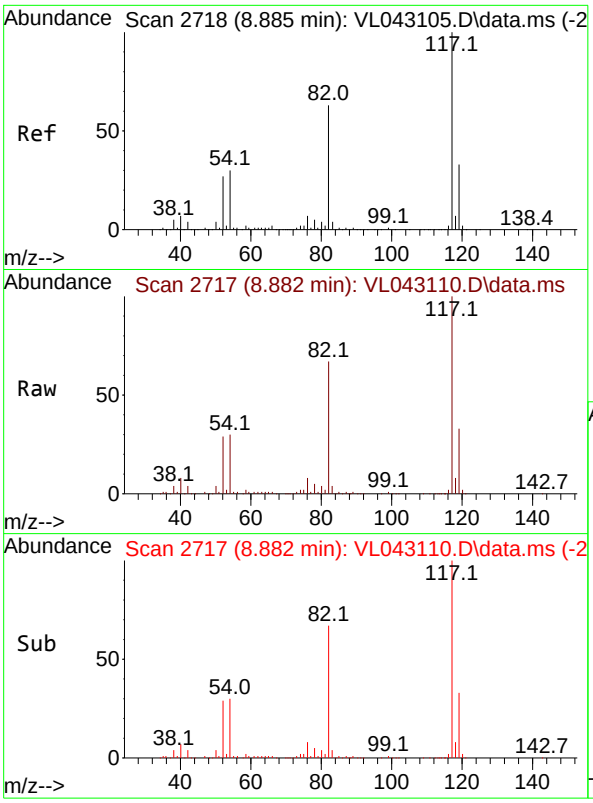


#54
1,2-Dibromoethane
Concen: 0.016 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:107 Resp: 308

Ion	Ratio	Lower	Upper
107	100		
109	78.6	73.4	110.2



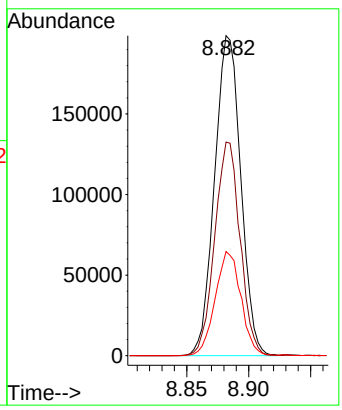


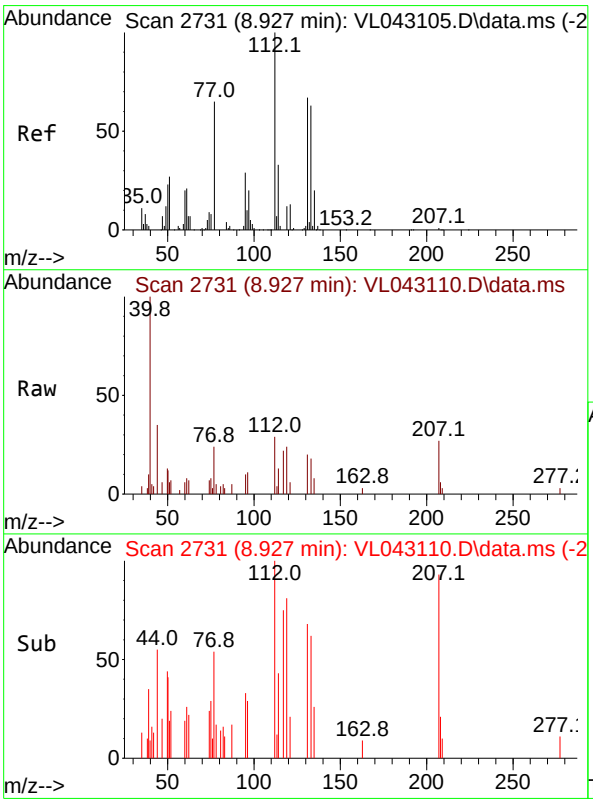
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:117 Resp: 292884

Ion	Ratio	Lower	Upper
117	100		
82	64.7	53.8	80.8
119	32.1	25.4	38.0

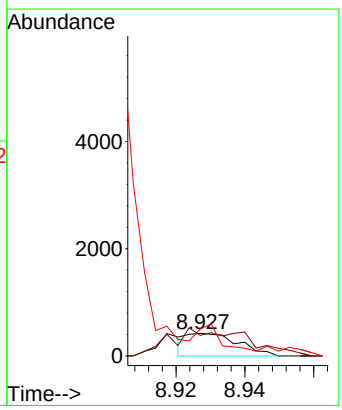


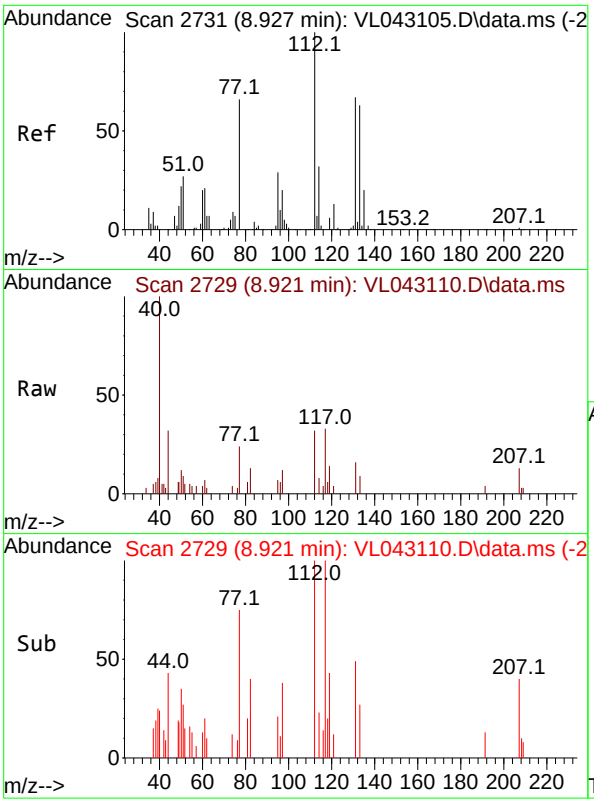


#56
1,1,1,2-Tetrachloroethane
Concen: 0.024 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:131 Resp: 441

Ion	Ratio	Lower	Upper
131	100		
133	181.0	75.7	113.5#
119	0.0	50.6	76.0#



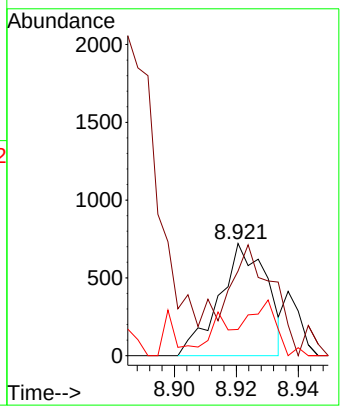


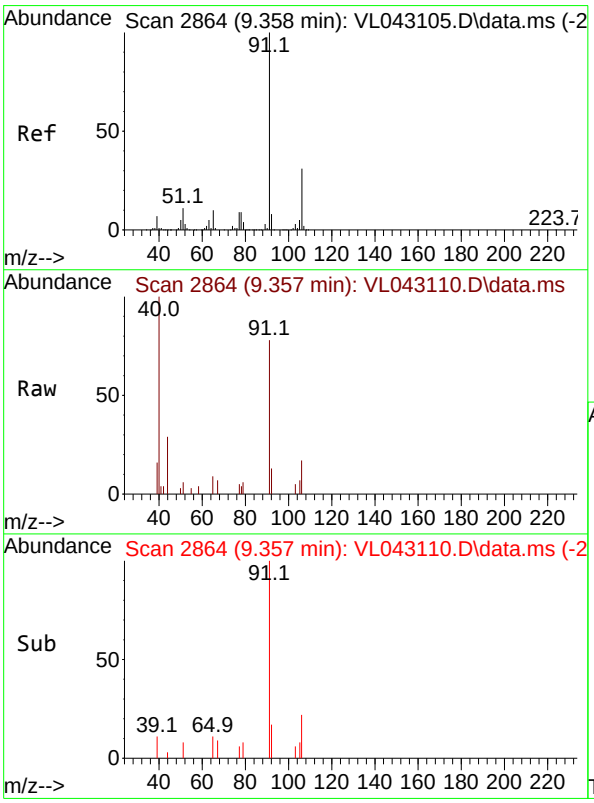
#57
Chlorobenzene
Concen: 0.028 ppbv
RT: 8.921 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:112 Resp: 764

Ion	Ratio	Lower	Upper
112	100		
77	33.7	53.3	79.9#
114	16.0	29.3	35.8#

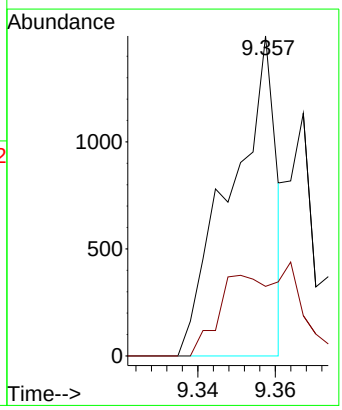


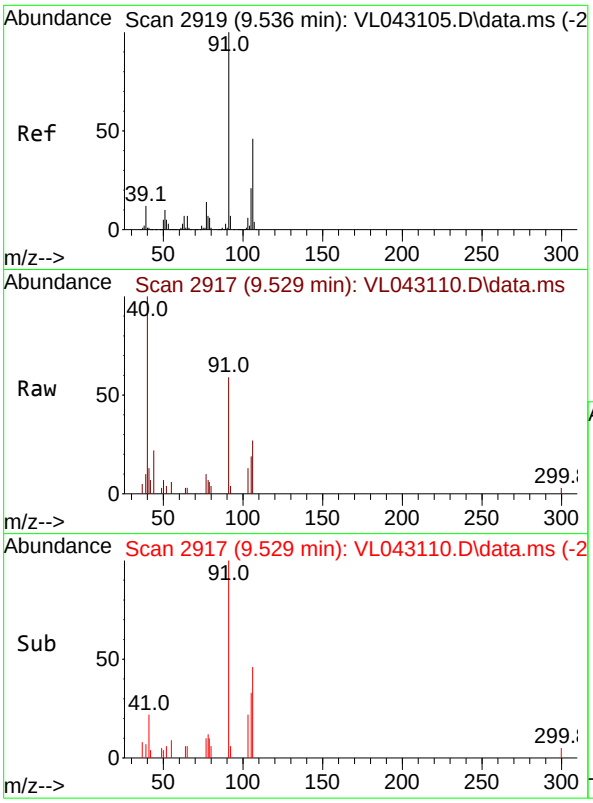


#58
Ethyl Benzene
Concen: 0.024 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 91 Resp: 1218

Ion	Ratio	Lower	Upper
91	100		
106	21.7	24.8	37.2#



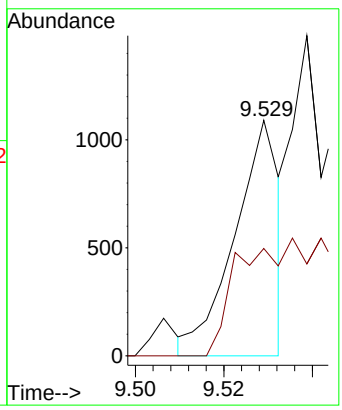


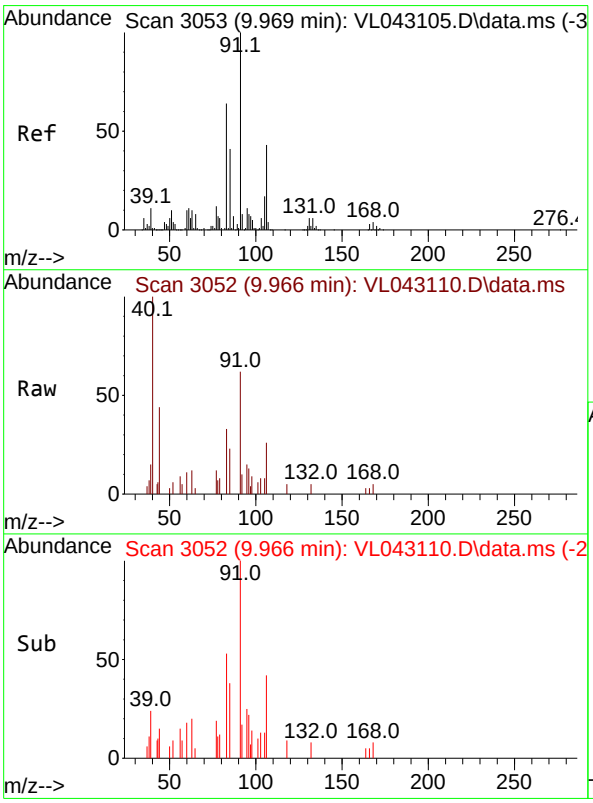
#59
m/p-Xylene
Concen: 0.019 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 759

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

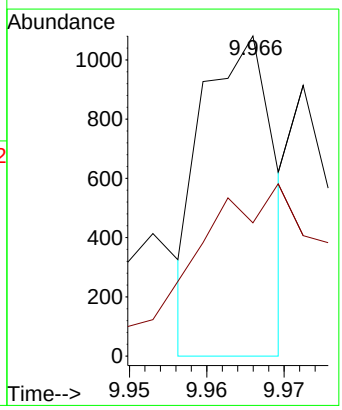


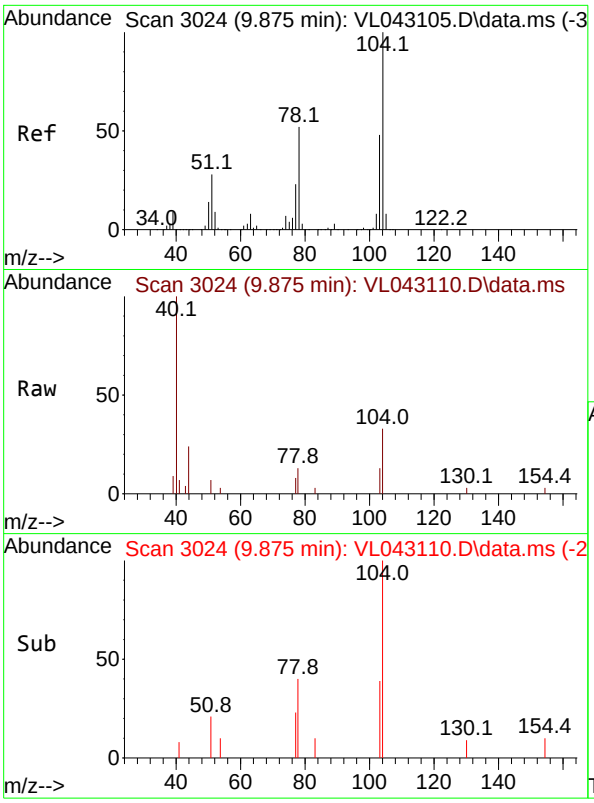


#60
o-Xylene
Concen: 0.018 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 91 Resp: 693

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.9	65.8#



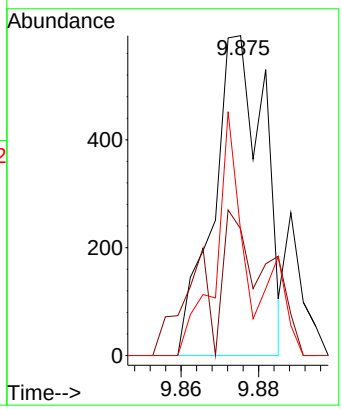


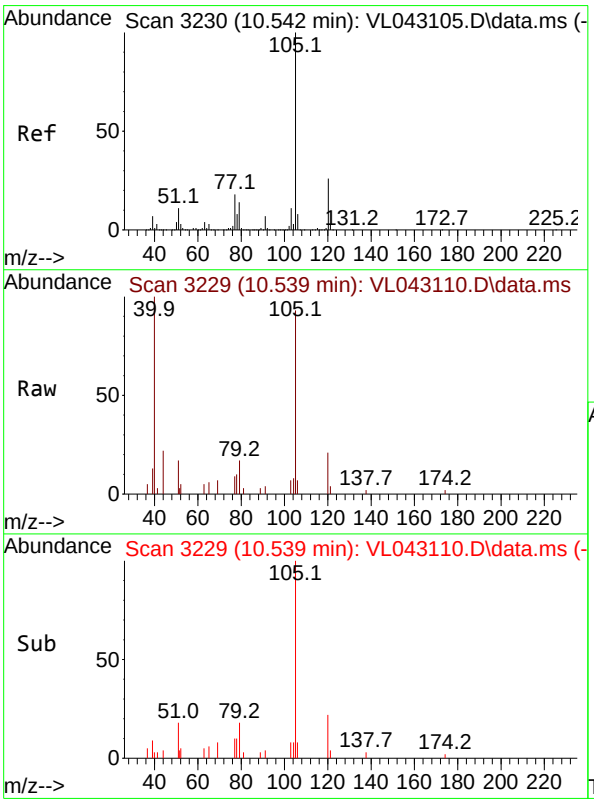
#61
Styrene
Concen: 0.030 ppbv
RT: 9.875 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:104 Resp: 538

Ion	Ratio	Lower	Upper
104	100		
78	61.7	40.2	60.2#
103	50.9	36.9	55.3

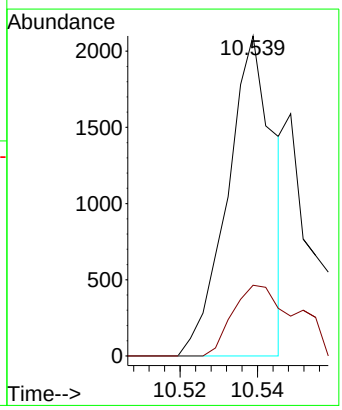


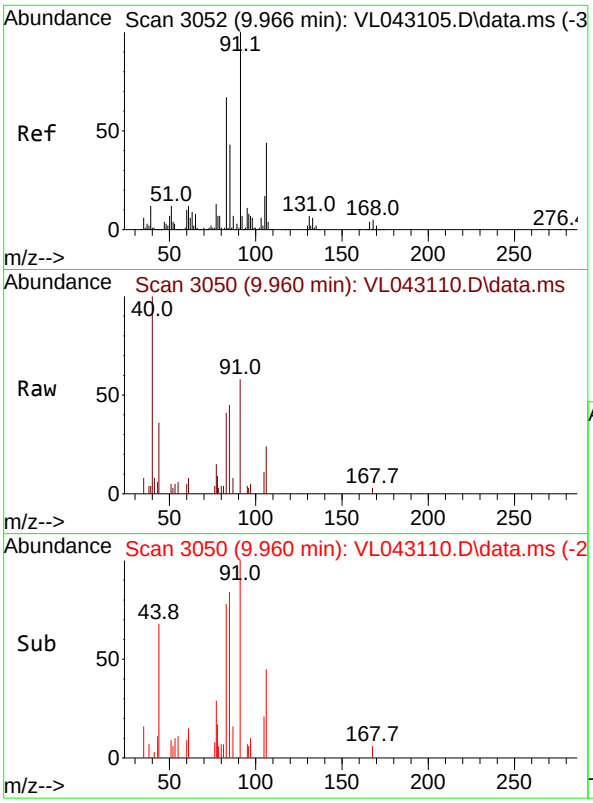


#62
Isopropylbenzene
Concen: 0.024 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:105 Resp: 1735

Ion	Ratio	Lower	Upper
105	100		
120	30.3	20.2	30.4



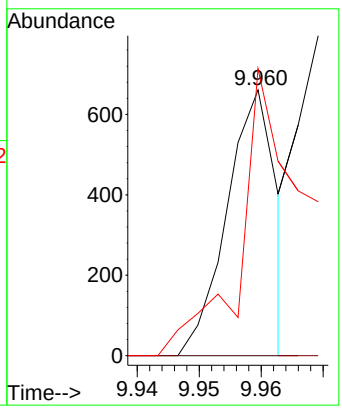


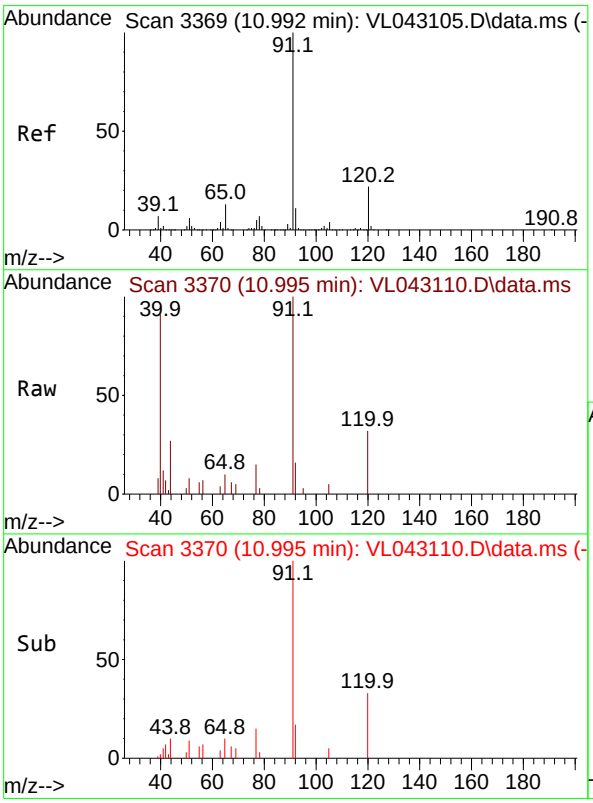
#63
1,1,2,2-Tetrachloroethane
Concen: 0.014 ppbv
RT: 9.960 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 369

Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.3#
85	181.6	32.0	96.0#

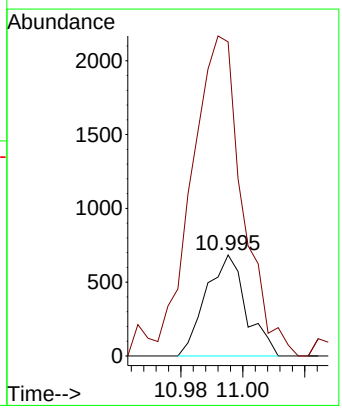


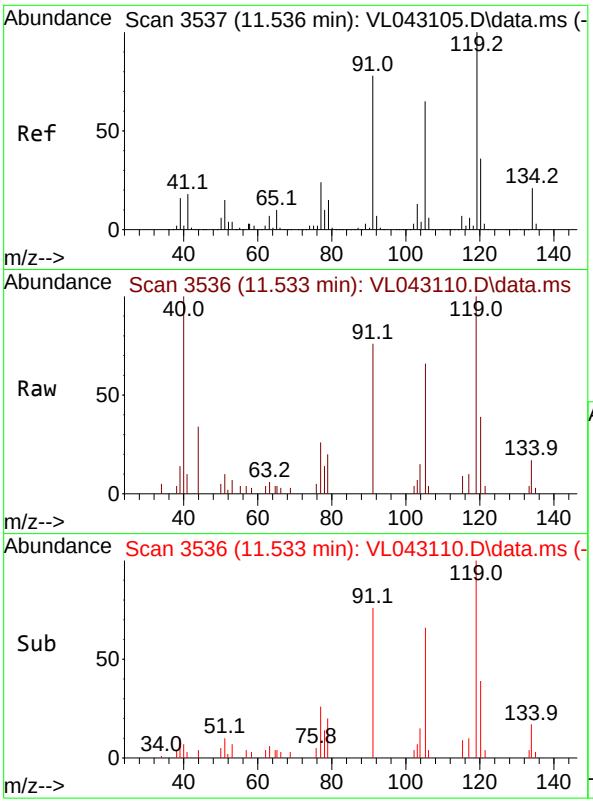


#64
n-propylbenzene
Concen: 0.033 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:120 Resp: 616

Ion	Ratio	Lower	Upper
120	100		
91	432.5	361.6	542.4



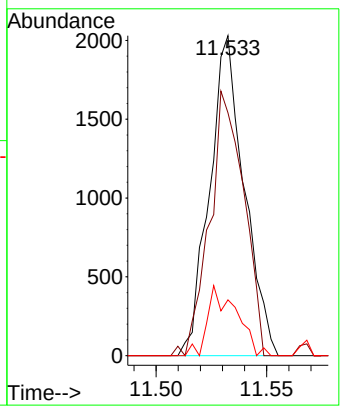


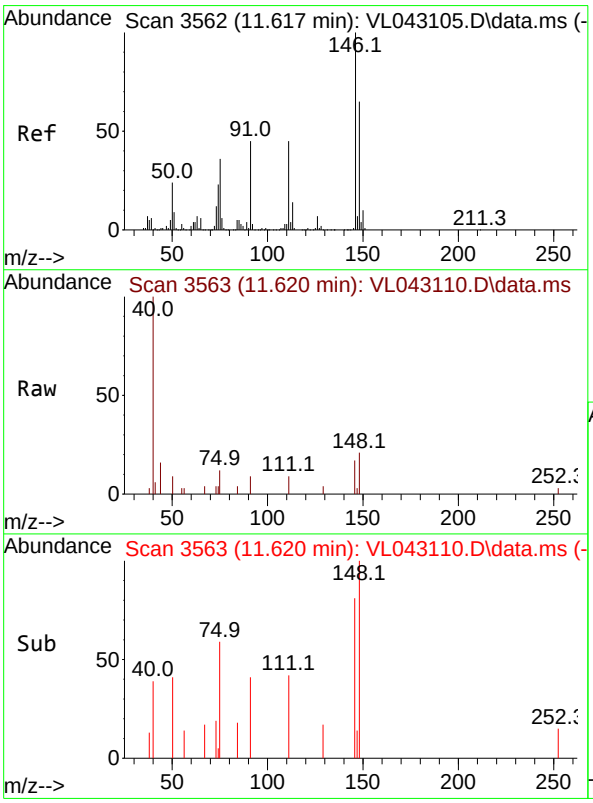
#65
tert-Butylbenzene
Concen: 0.035 ppbv
RT: 11.533 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:119 Resp: 2219

Ion	Ratio	Lower	Upper
119	100		
91	82.6	63.4	95.0
134	18.3	17.3	25.9

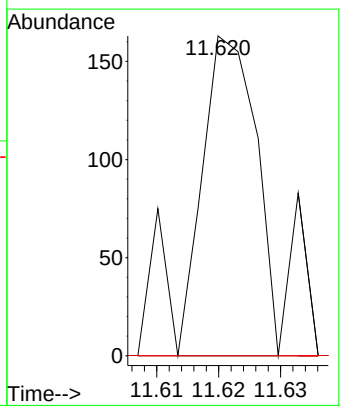


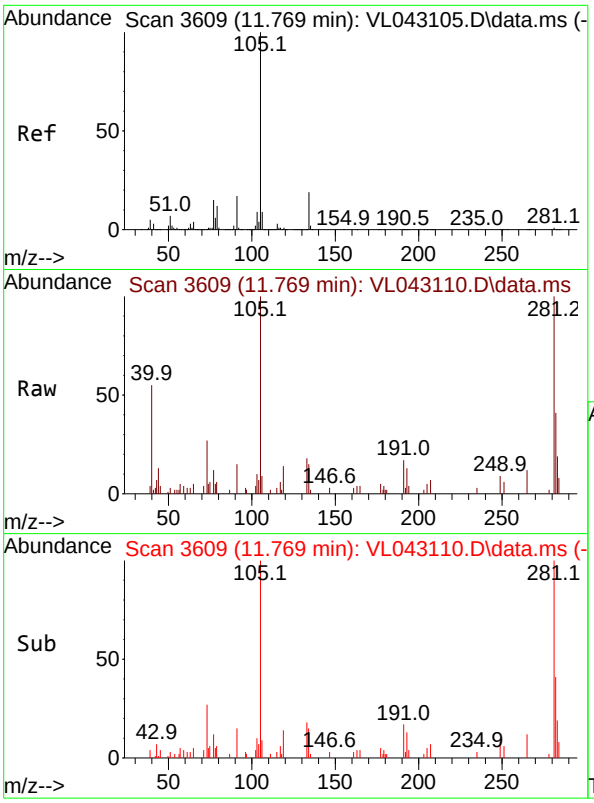


#66
Benzyl Chloride
Concen: 0.014 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 91 Resp: 98

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.6	22.0#
128	0.0	4.6	6.8#



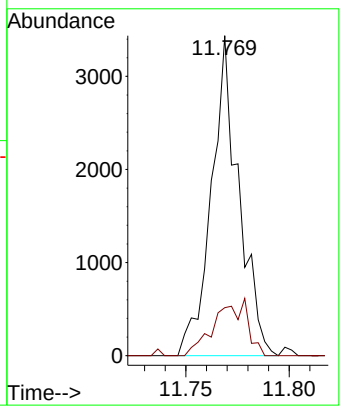


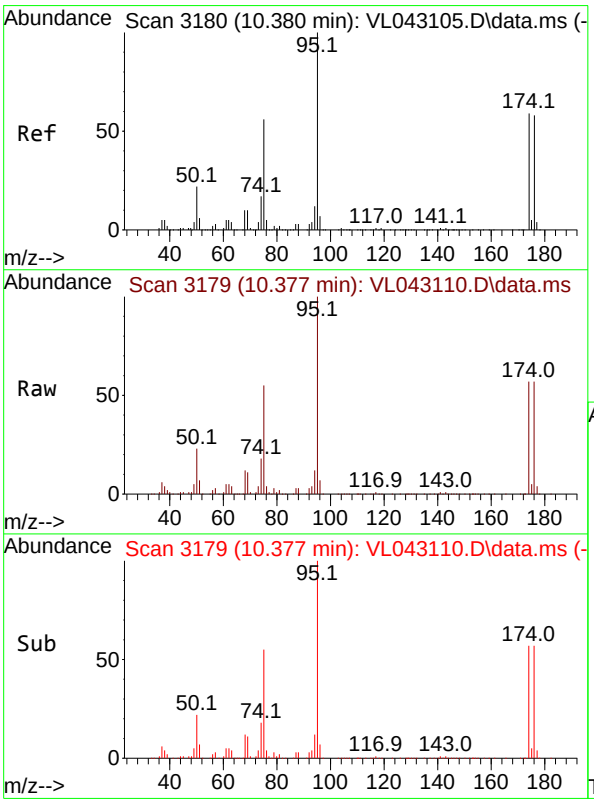
#67
sec-Butylbenzene
Concen: 0.035 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 3170

Ion	Ratio	Lower	Upper
105	100		
134	21.1	15.5	23.3

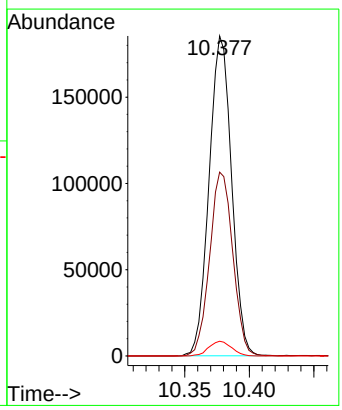


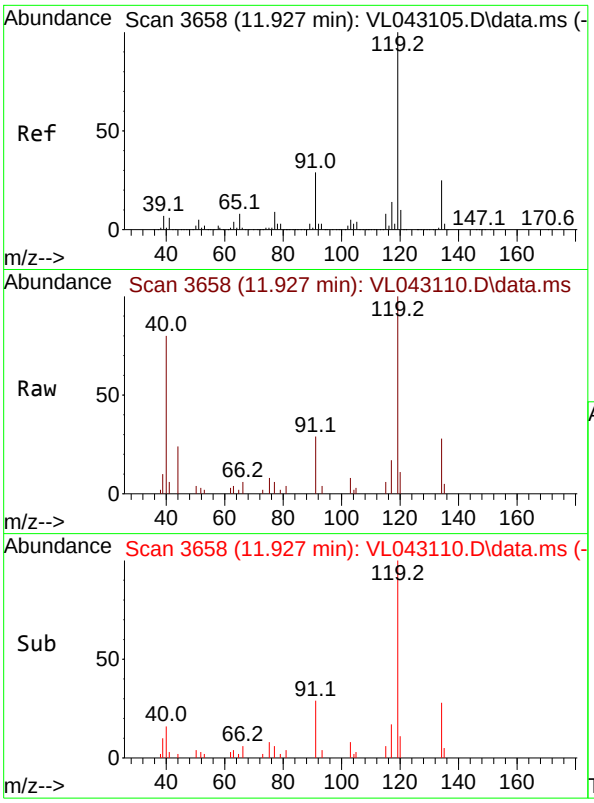


#68
1-Bromo-4-Fluorobenzene
Concen: 9.841 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 95 Resp: 224043

Ion	Ratio	Lower	Upper
95	100		
174	59.2	48.3	72.5
175	4.7	3.8	5.8



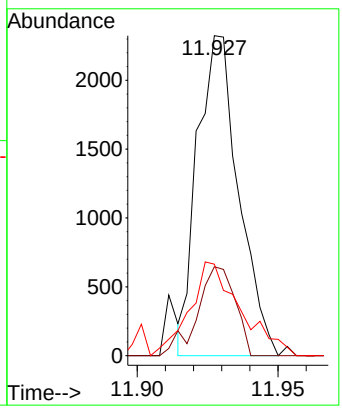


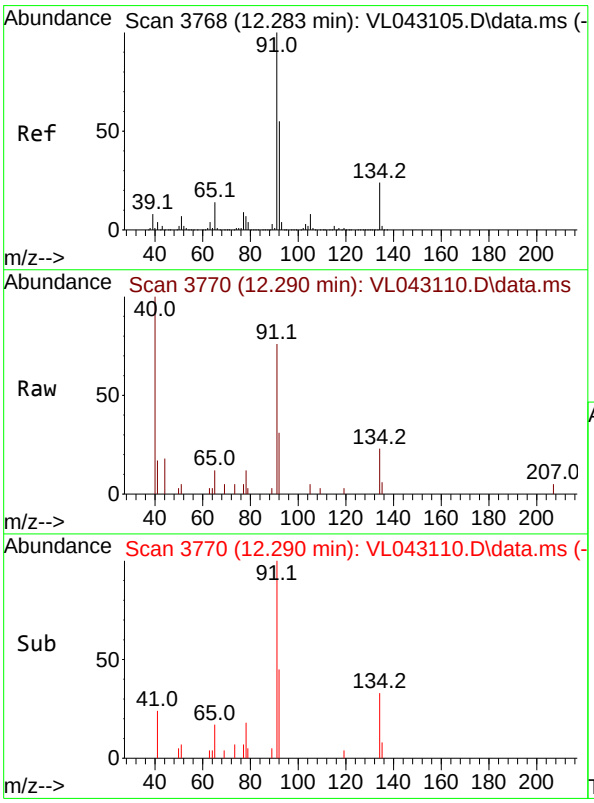
#69
p-Isopropyltoluene
Concen: 0.031 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:119 Resp: 2370

Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.3	30.5
91	38.4	22.6	33.8#

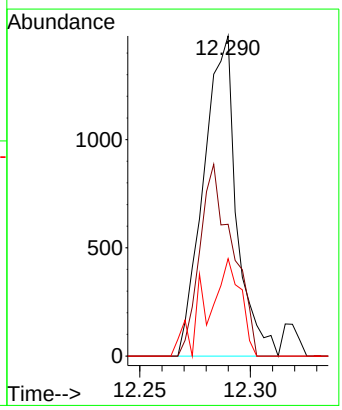


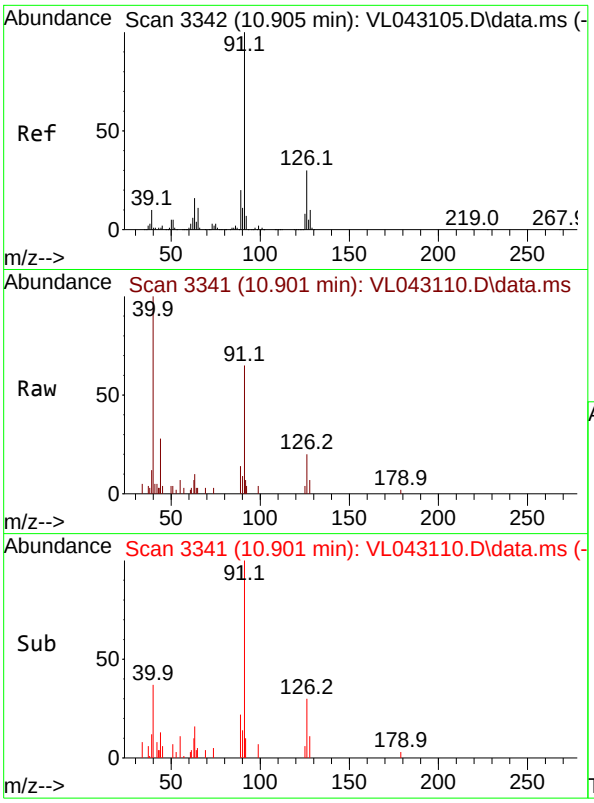


#70
n-Butylbenzene
Concen: 0.020 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.006 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion: 91 Resp: 1534

Ion	Ratio	Lower	Upper
91	100		
92	59.6	44.5	66.7
134	31.5	19.3	28.9#



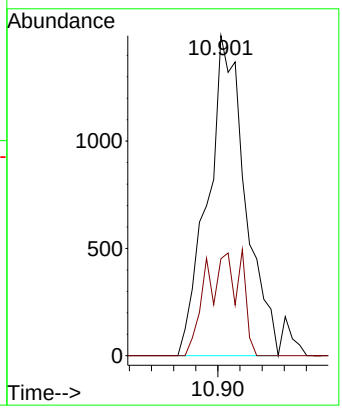


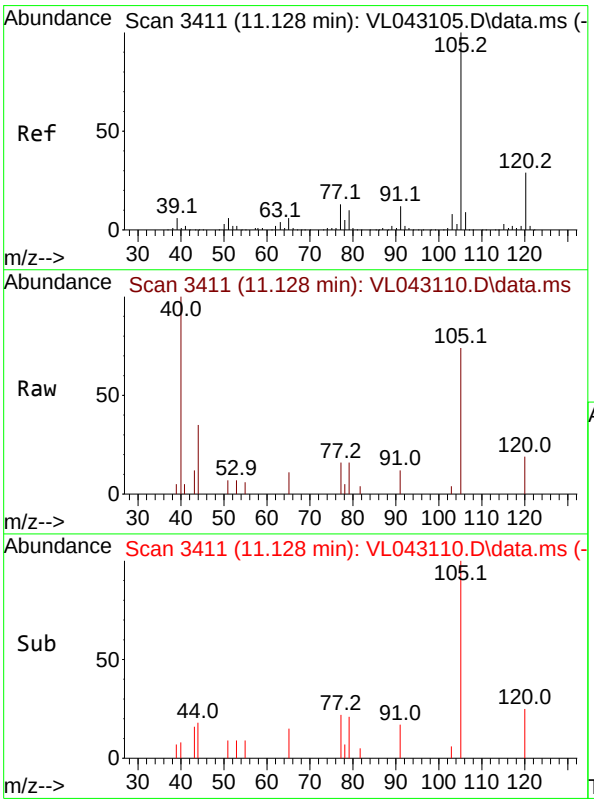
#71
2-Chlorotoluene
Concen: 0.032 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 1757

Ion	Ratio	Lower	Upper
91	100		
126	30.1	12.0	48.0

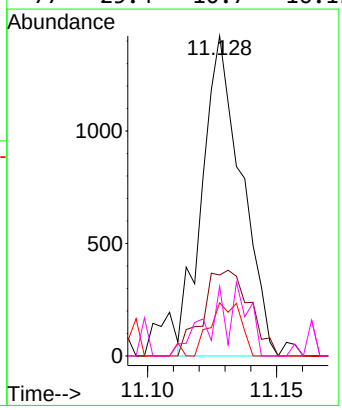


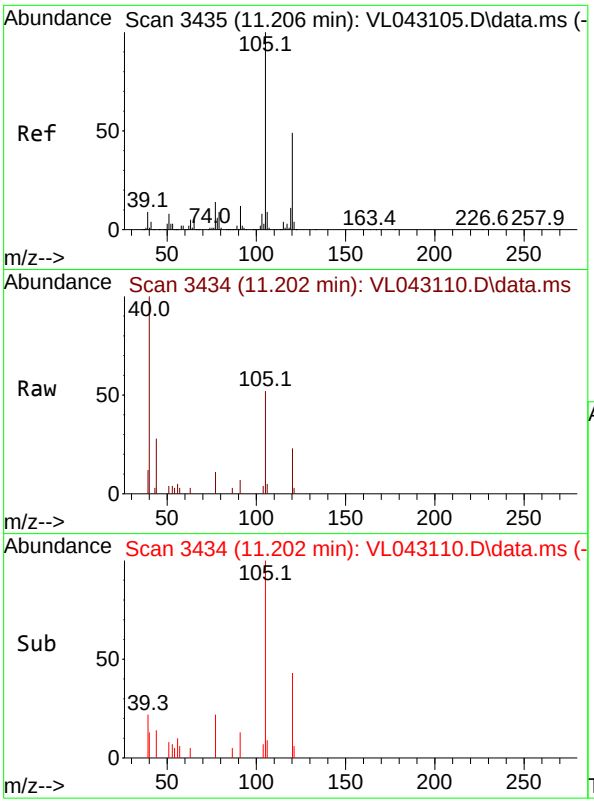


#72
4-Ethyltoluene
Concen: 0.031 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:105 Resp: 1502

Ion	Ratio	Lower	Upper
105	100		
120	32.0	24.2	36.4
91	13.9	10.0	15.0
77	25.4	10.7	16.1#



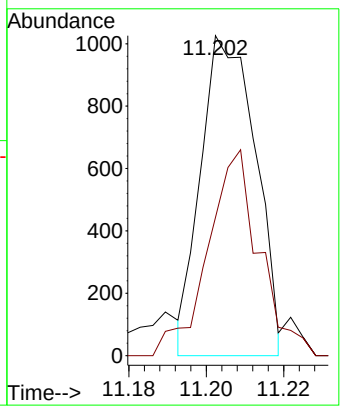


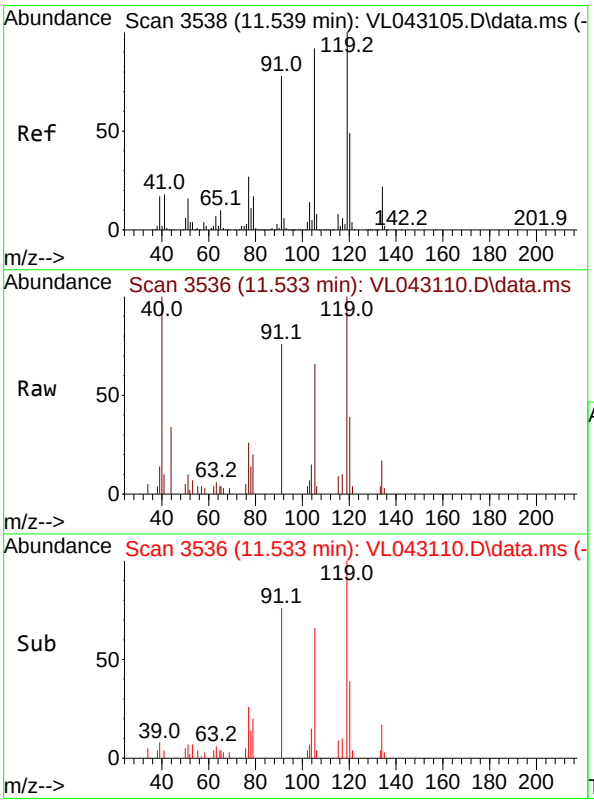
#73
1,3,5-Trimethylbenzene
Concen: 0.025 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 1005

Ion	Ratio	Lower	Upper
105	100		
120	37.2	39.0	58.6#

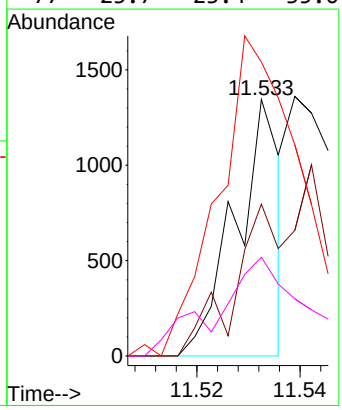


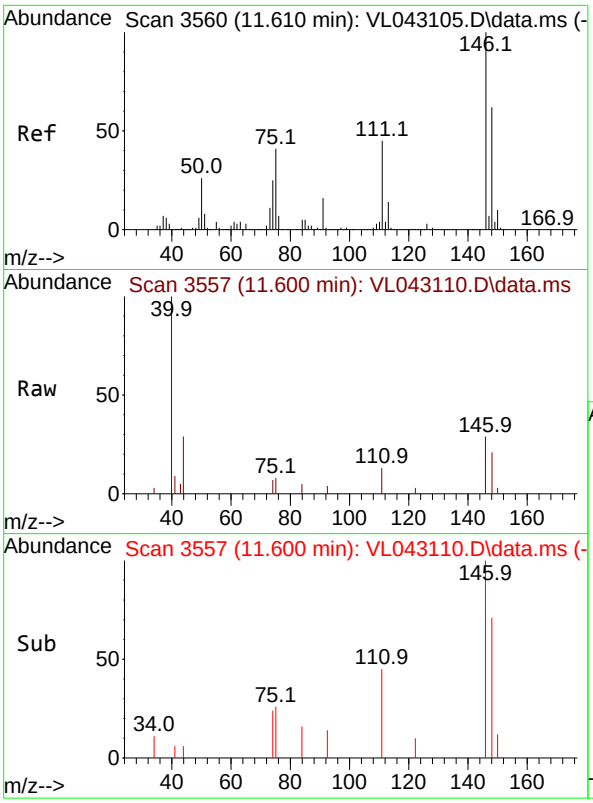


#74
1,2,4-Trimethylbenzene
Concen: 0.018 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:105 Resp: 806

Ion	Ratio	Lower	Upper
105	100		
120	59.2	42.8	64.2
91	98.1	68.3	102.5
77	23.7	23.4	35.0



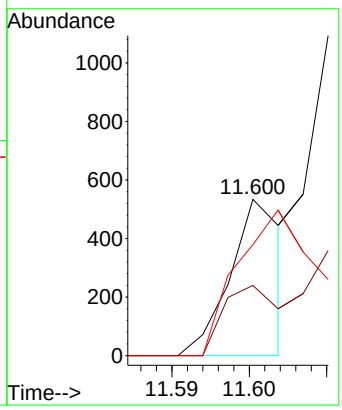


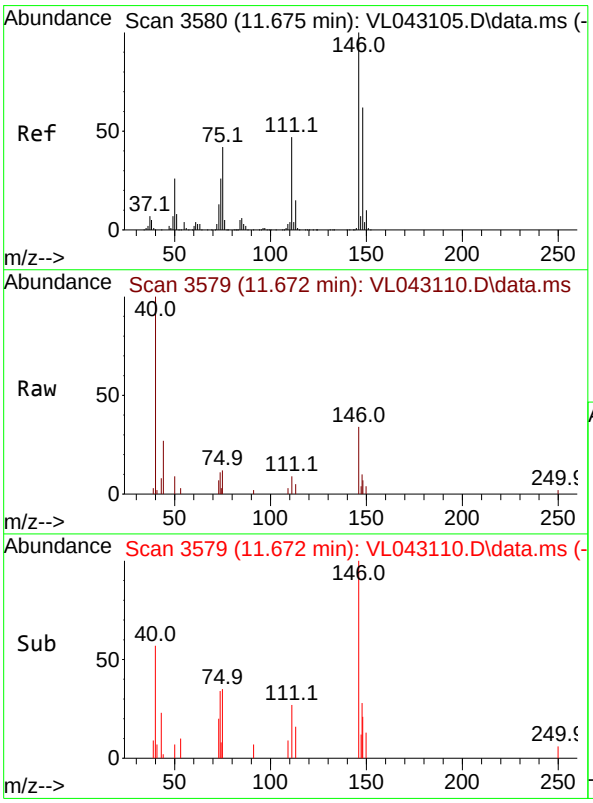
#75
1,3-Dichlorobenzene
Concen: 0.010 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:146 Resp: 251

Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.3	69.9#
148	222.3	31.6	95.0#

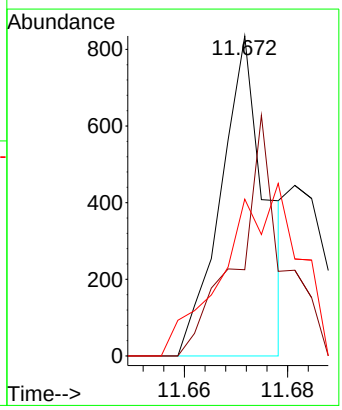


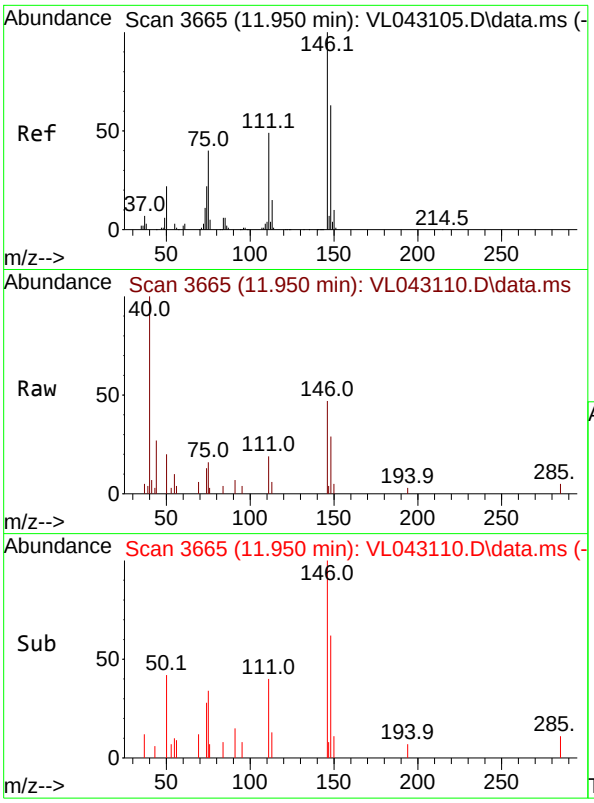


#76
1,4-Dichlorobenzene
Concen: 0.019 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:146 Resp: 504

Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.4	67.0#
148	0.0	31.6	94.7#



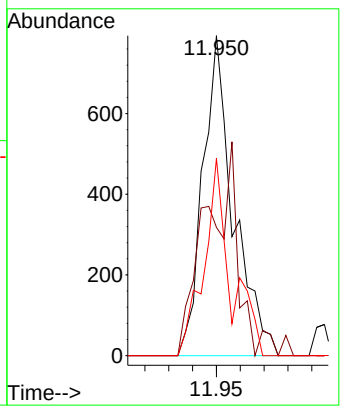


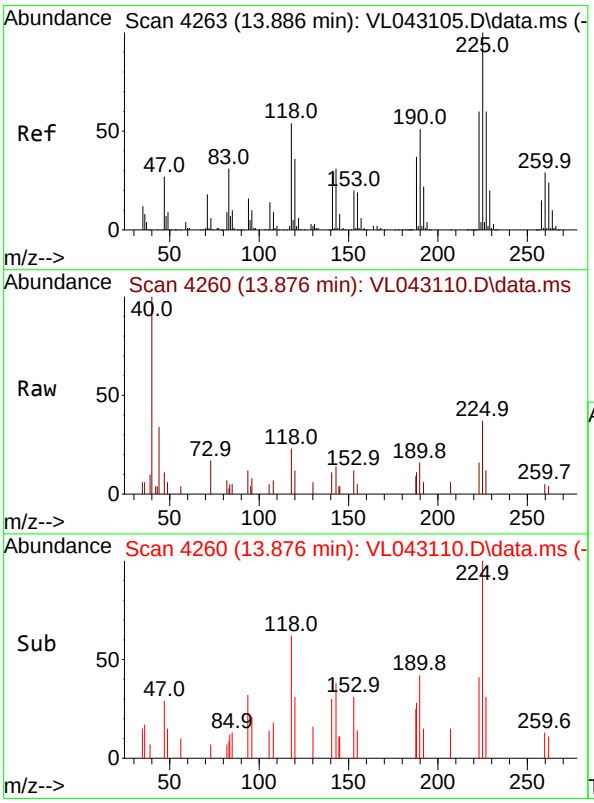
#77
1,2-Dichlorobenzene
Concen: 0.028 ppbv
RT: 11.950 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:146 Resp: 709

Ion	Ratio	Lower	Upper
146	100		
111	71.2	24.0	72.0
148	53.5	31.1	93.3

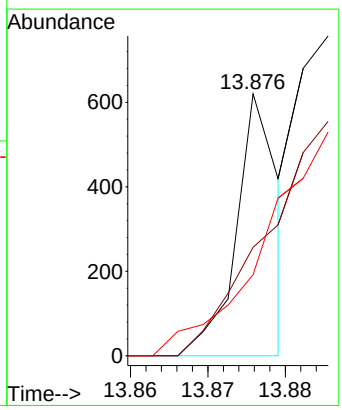


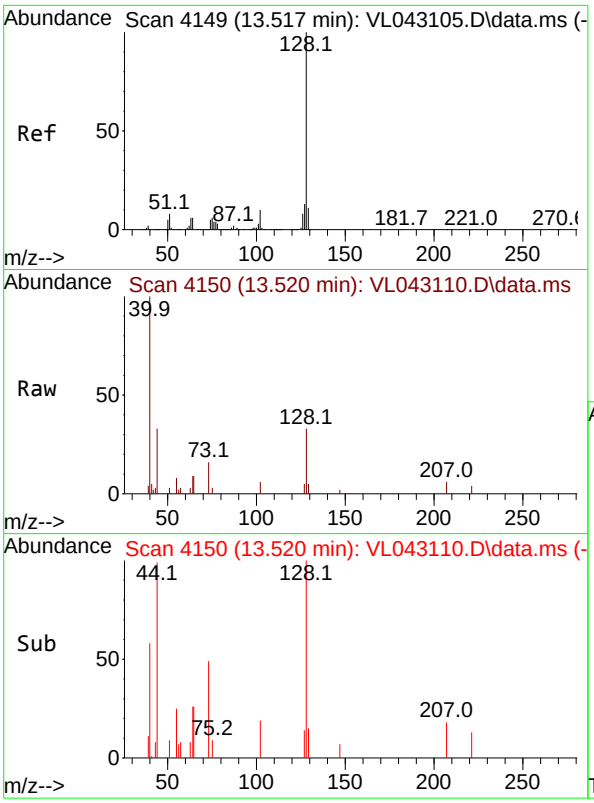


#78
Hexachloro-1,3-Butadiene
Concen: 0.012 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.010 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:225 Resp: 239

Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.2	75.4#
227	0.0	49.6	74.4#



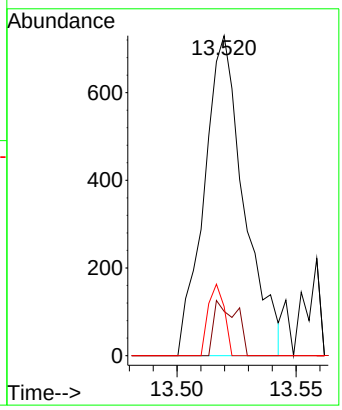


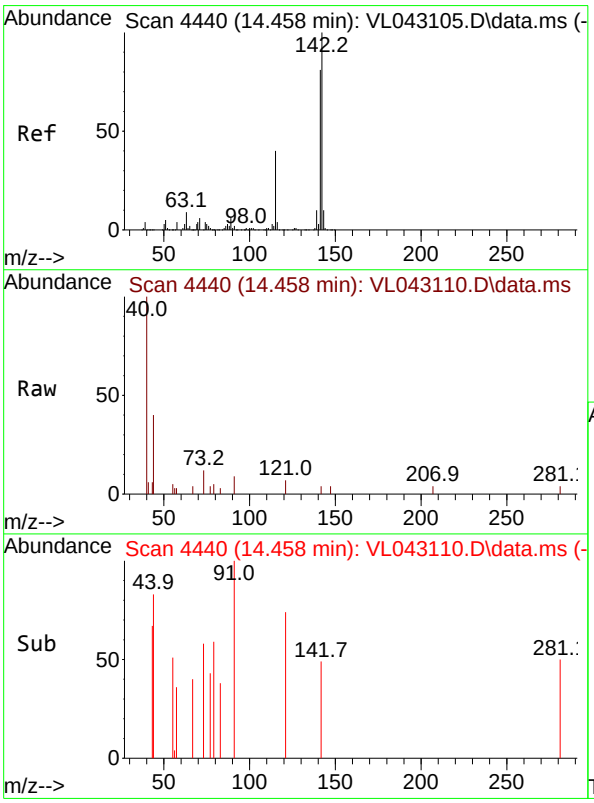
#79
Naphthalene
Concen: 0.018 ppbv
RT: 13.520 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:128 Resp: 851

Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.5	15.7
129	15.3	9.1	13.7#

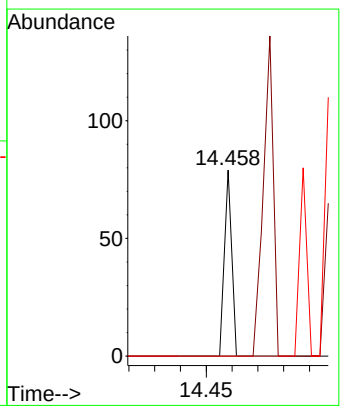


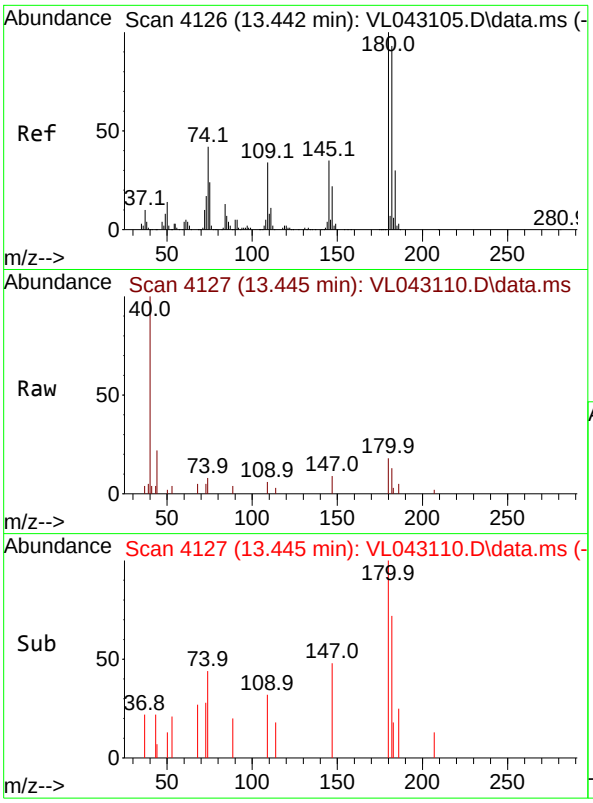


#80
Naphthalene,2-methyl-
Concen: 0.001 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Tgt Ion:142 Resp: 15

Ion	Ratio	Lower	Upper
142	100		
141	546.7	64.6	97.0#
115	340.0	30.2	45.4#



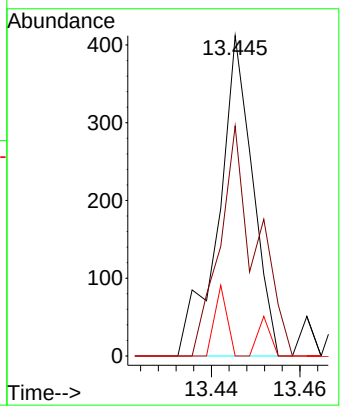


#81
1,2,4-Trichlorobenzene
Concen: 0.011 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043110.D
Acq: 14 Oct 2025 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:180 Resp: 219

Ion	Ratio	Lower	Upper
180	100		
182	76.7	75.5	113.3
184	12.8	23.9	35.9#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043111.D
Acq On : 14 Oct 2025 14:18
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Oct 15 01:55:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	100858	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	321665	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	292542	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	233522	10.270	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	193353	13.485	ppbv	98
3) Chlorodifluoromethane	1.476	51	205650	13.255	ppbv	98
4) Chloromethane	1.534	50	72111	12.695	ppbv	98
5) Vinyl Chloride	1.583	62	69909	12.548	ppbv	99
6) Bromomethane	1.670	94	39756	13.013	ppbv	98
7) Chloroethane	1.706	64	27709	12.164	ppbv	95
8) Dichlorotetrafluoroethane	1.557	85	156753	13.526	ppbv	100
9) Propene	1.486	41	88451	12.854	ppbv	98
10) Heptane	4.985	43	249682	12.658	ppbv	99
11) Trichlorofluoromethane	1.881	101	191307	13.640	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	150640	13.341	ppbv	98
13) Ethanol	1.722	45	25828	10.148	ppbv	98
14) Bromoethene	1.784	108	54818	13.068	ppbv	99
15) Acetone	1.835	43	160069	11.710	ppbv	100
16) 1,3-Butadiene	1.612	39	80403	12.411	ppbv	98
17) tert-Butyl alcohol	2.039	59	237633	12.735	ppbv	99
18) 1,1-Dichloroethene	2.036	96	65634	13.333	ppbv	98
19) Isopropyl Alcohol	1.887	45	102035	12.051	ppbv	98
20) Methylene Chloride	2.065	84	60549	11.268	ppbv	90
21) Allyl Chloride	2.097	41	131539	13.105	ppbv	95
22) trans-1,2-Dichloroethene	2.343	96	76780	13.048	ppbv	97
23) Vinyl Acetate	2.463	43	288274	14.476	ppbv	98
24) 1,1-Dichloroethane	2.411	63	152663	13.428	ppbv	99
25) Ethyl Acetate	2.835	43	434350	12.884	ppbv	100
26) Hexane	2.829	57	199384	12.836	ppbv	98
27) Carbon Disulfide	2.152	76	192452	13.522	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	96464	13.650	ppbv	94
29) Chloroform	2.852	83	302154	13.425	ppbv	98
30) Cyclohexane	3.858	84	177947	13.133	ppbv	95
31) cis-1,2-Dichloroethene	2.722	61	203888	13.745	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	316442	13.500	ppbv	99
34) 2-Butanone	2.557	43	283134	13.020	ppbv	99
35) Carbon Tetrachloride	3.764	117	325078	14.056	ppbv	98
36) Benzene	3.661	78	415823	13.725	ppbv	99
37) 1,2-Dichloroethane	3.221	62	241983	13.865	ppbv	98
38) Trichloroethene	4.551	130	159136	12.590	ppbv	97
39) 1,2-Dichloropropane	4.318	63	147155	13.274	ppbv	95
40) 1,4-Dioxane	4.580	88	65323	13.180	ppbv #	94
41) Tetrahydrofuran	3.052	42	160247	13.200	ppbv	99
42) Bromodichloromethane	4.493	83	343817	14.234	ppbv	99
43) Methyl Methacrylate	4.881	69	210756	13.633	ppbv	98
44) 2,2,4-Trimethylpentane	4.645	57	675770	13.340	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	218386	14.142	ppbv	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043111.D
Acq On : 14 Oct 2025 14:18
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Oct 15 01:55:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration

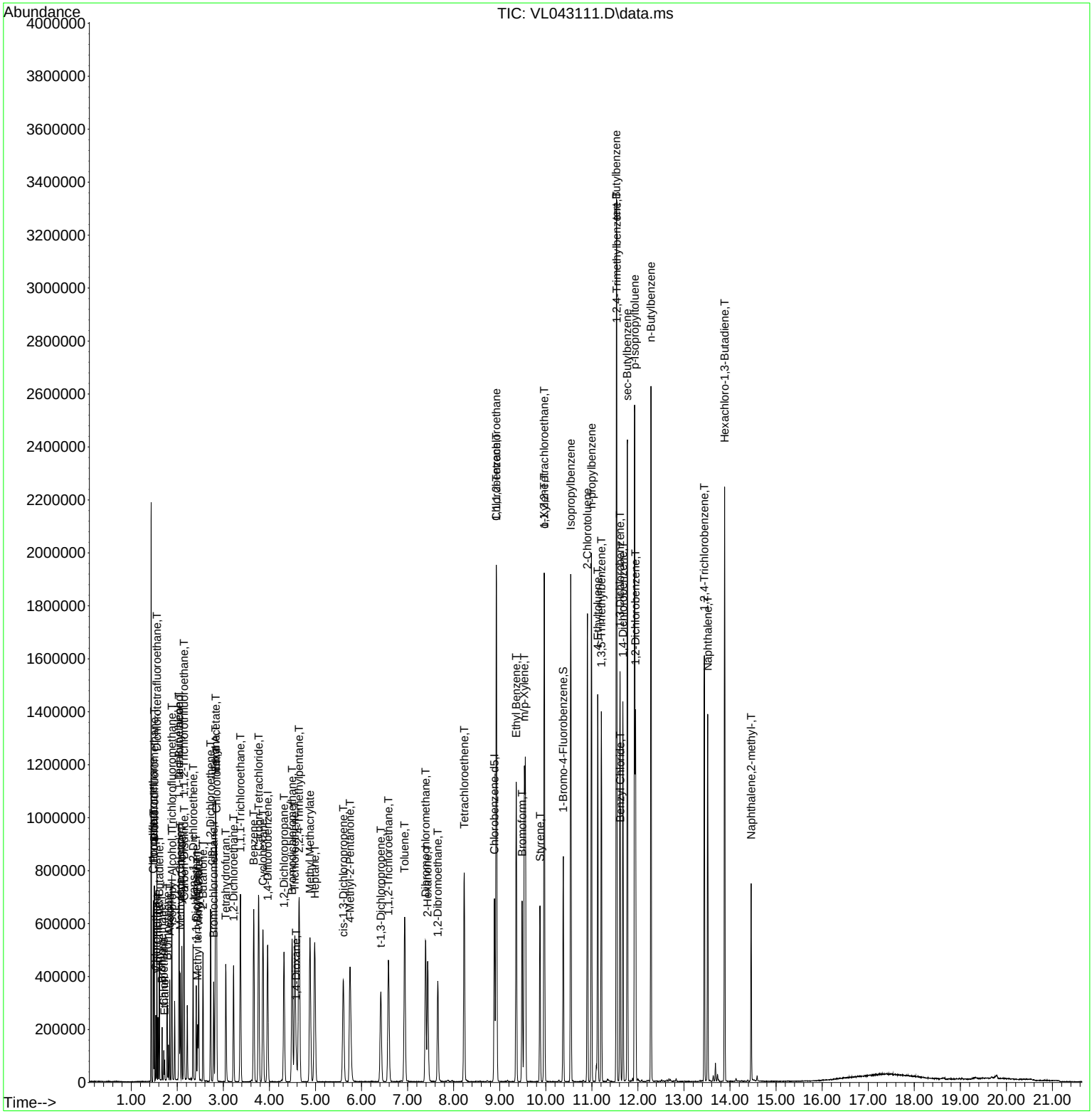
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	258355	14.018	ppbv		98
47) 1,1,2-Trichloroethane	6.583	97	163113	13.638	ppbv		94
48) Dibromochloromethane	7.393	129	280993	14.051	ppbv		100
49) Bromoform	9.487	173	230561	14.184	ppbv		100
50) 4-Methyl-2-Pentanone	5.748	43	401849	13.396	ppbv		100
51) 2-Hexanone	7.435	43	317288	14.176	ppbv	#	99
52) Tetrachloroethene	8.231	164	143954	13.177	ppbv		98
53) Toluene	6.936	91	483870	13.457	ppbv		100
54) 1,2-Dibromoethane	7.655	107	254024	13.461	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.927	131	250303	13.573	ppbv		99
57) Chlorobenzene	8.927	112	355301	12.983	ppbv		98
58) Ethyl Benzene	9.357	91	676918	13.375	ppbv		97
59) m/p-Xylene	9.535	91	626074	15.622	ppbv	#	29
60) o-Xylene	9.966	91	516660	13.063	ppbv		99
61) Styrene	9.875	104	247585	13.867	ppbv		99
62) Isopropylbenzene	10.542	105	931508	13.034	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	331423	12.515	ppbv		100
64) n-propylbenzene	10.992	120	241719	12.775	ppbv		96
65) tert-Butylbenzene	11.532	119	788234	12.490	ppbv		97
66) Benzyl Chloride	11.620	91	97114	13.778	ppbv		99
67) sec-Butylbenzene	11.769	105	1125489	12.566	ppbv		99
69) p-Isopropyltoluene	11.930	119	959206	12.602	ppbv		99
70) n-Butylbenzene	12.283	91	973466	12.979	ppbv		100
71) 2-Chlorotoluene	10.904	91	721827	13.242	ppbv		98
72) 4-Ethyltoluene	11.128	105	647315	13.310	ppbv		99
73) 1,3,5-Trimethylbenzene	11.205	105	534006	13.314	ppbv		98
74) 1,2,4-Trimethylbenzene	11.542	105	560932	12.498	ppbv	#	86
75) 1,3-Dichlorobenzene	11.610	146	339203	13.031	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	341936	13.027	ppbv		99
77) 1,2-Dichlorobenzene	11.950	146	318800	12.660	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	226294	11.606	ppbv		99
79) Naphthalene	13.516	128	661098	14.260	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	212784	17.384	ppbv		98
81) 1,2,4-Trichlorobenzene	13.442	180	266712	13.698	ppbv		100

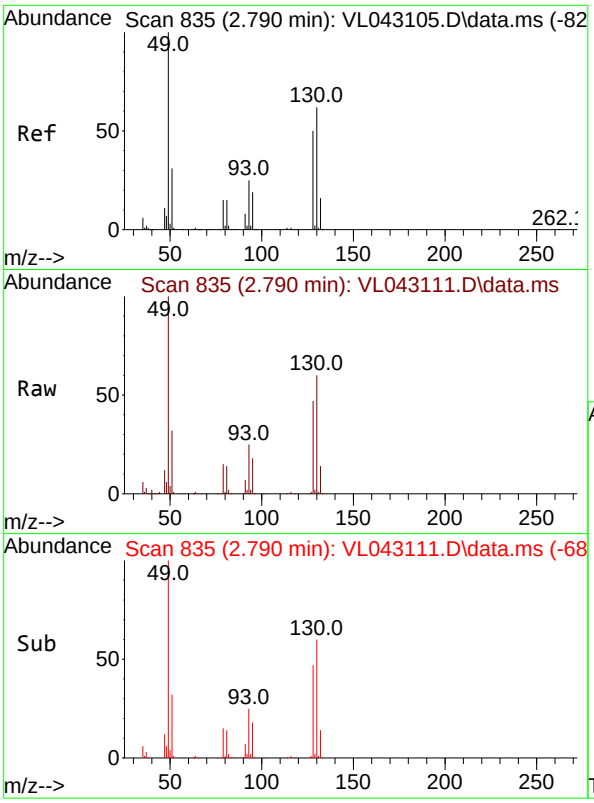
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043111.D
Acq On : 14 Oct 2025 14:18
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Oct 15 01:55:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 01:49:43 2025
Response via : Initial Calibration



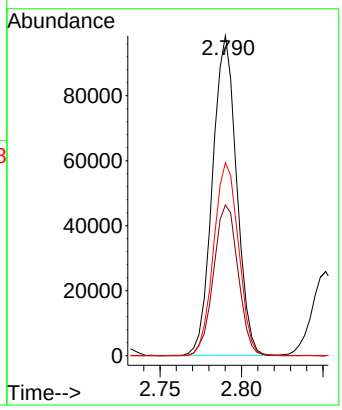


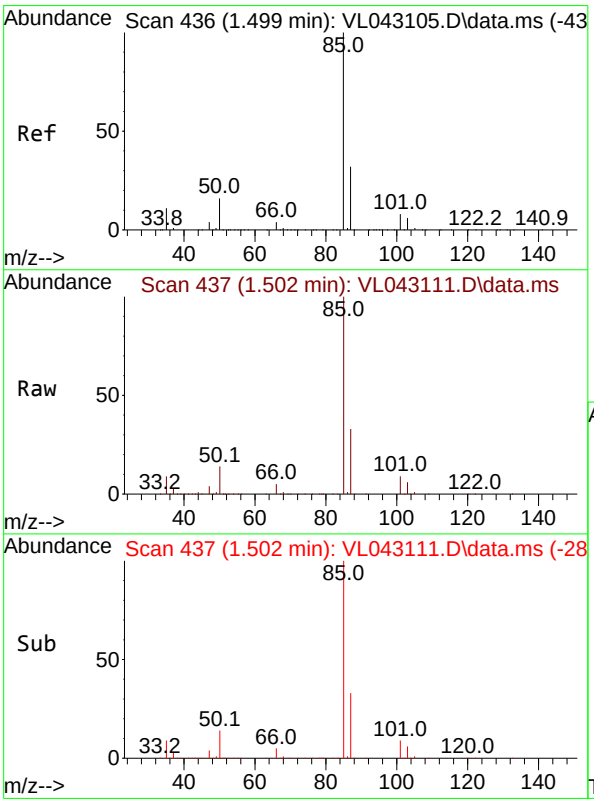
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 49 Resp: 100858

Ion	Ratio	Lower	Upper
49	100		
128	48.4	24.4	73.4
130	62.4	31.0	93.0

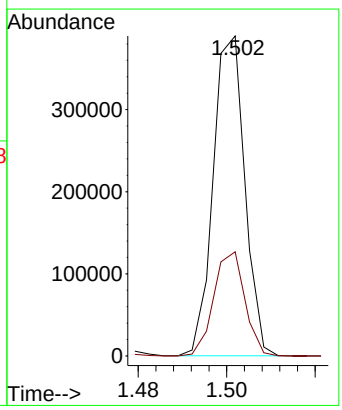


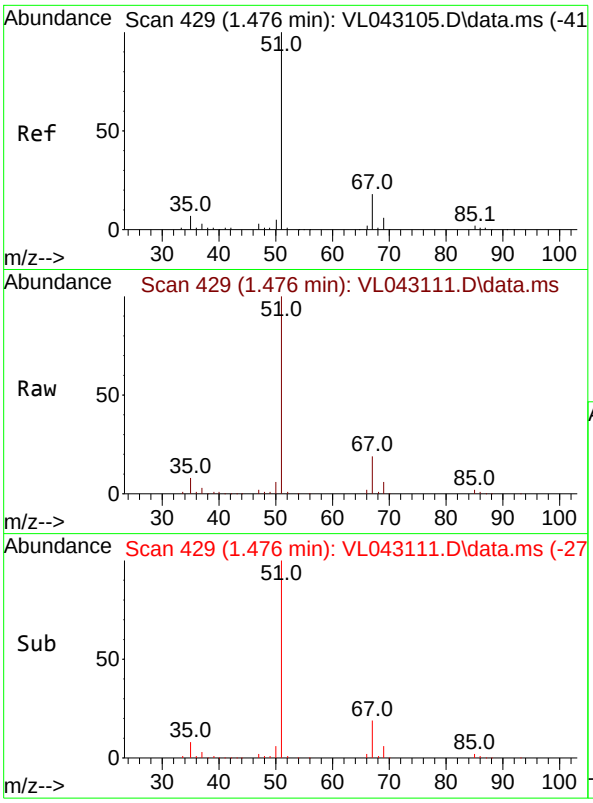


#2
Dichlorodifluoromethane
Concen: 13.485 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 193353

Ion	Ratio	Lower	Upper
85	100		
87	32.6	25.3	37.9



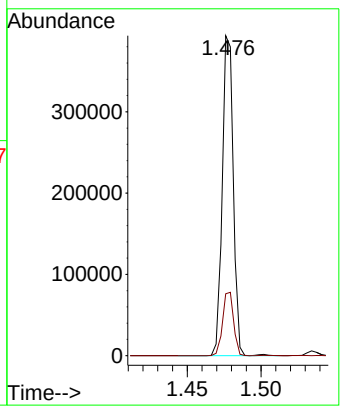


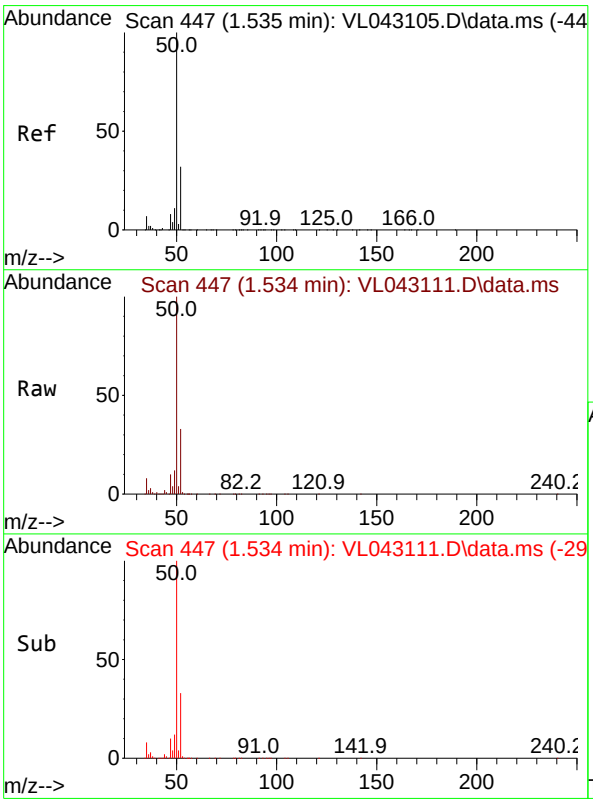
#3
Chlorodifluoromethane
Concen: 13.255 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 205650

Ion	Ratio	Lower	Upper
51	100		
67	20.0	15.1	22.7

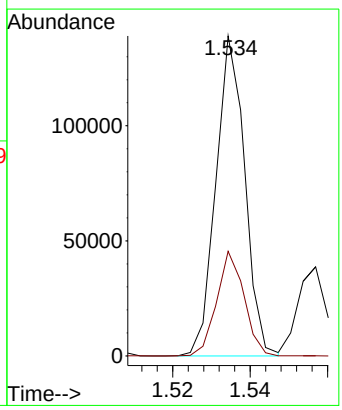


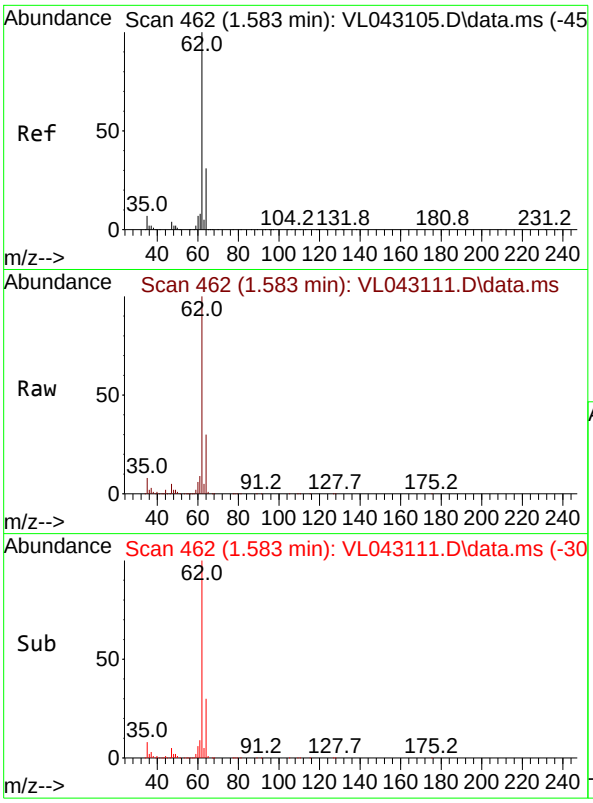


#4
Chloromethane
Concen: 12.695 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 50 Resp: 72111

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.2	37.8



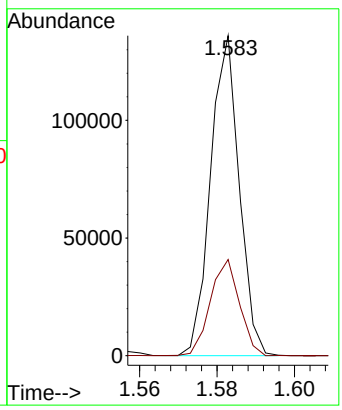


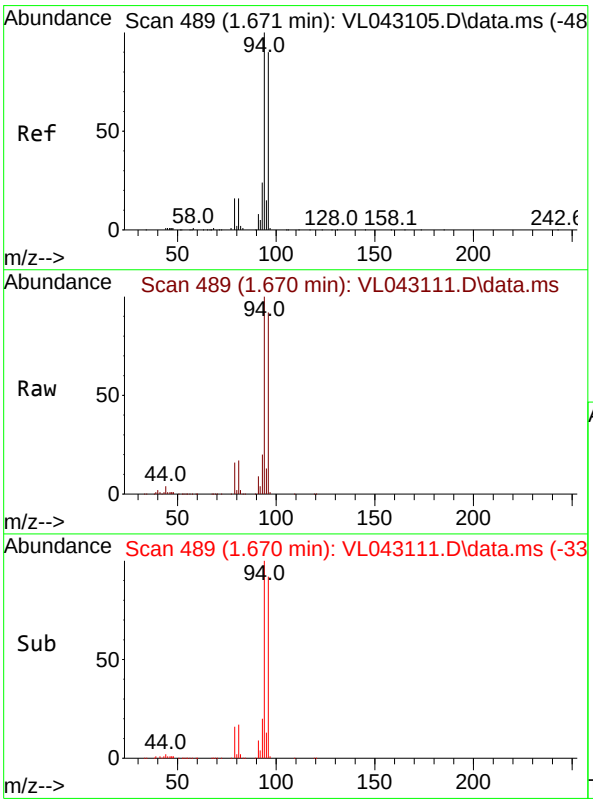
#5
Vinyl Chloride
Concen: 12.548 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 69909

Ion	Ratio	Lower	Upper
62	100		
64	30.0	24.6	36.8

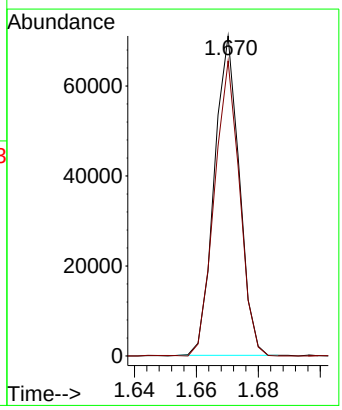


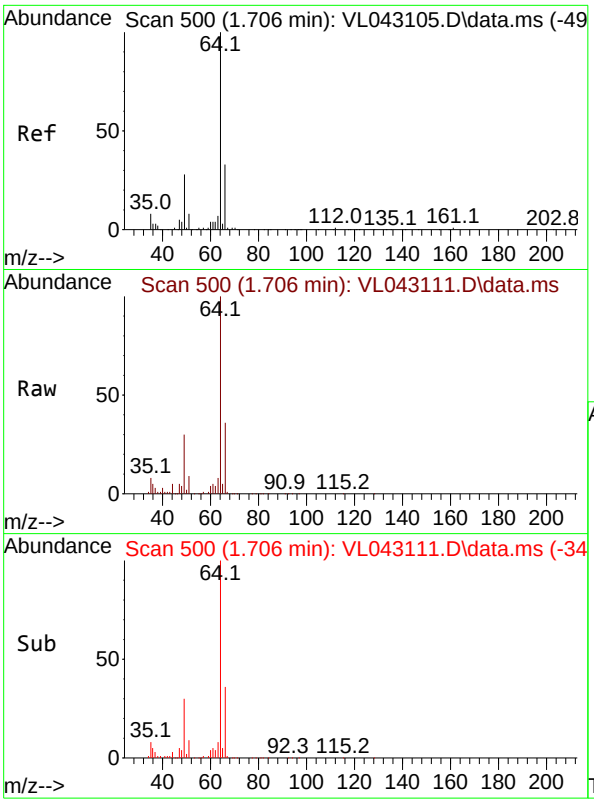


#6
Bromomethane
Concen: 13.013 ppbv
RT: 1.670 min Scan# 489
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 94 Resp: 39756

Ion	Ratio	Lower	Upper
94	100		
96	92.4	72.2	108.4



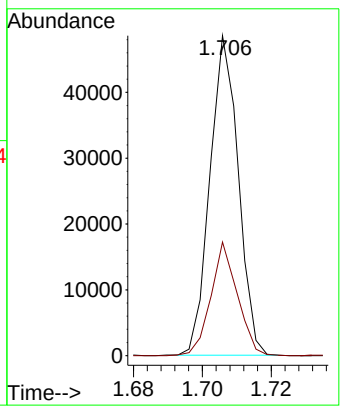


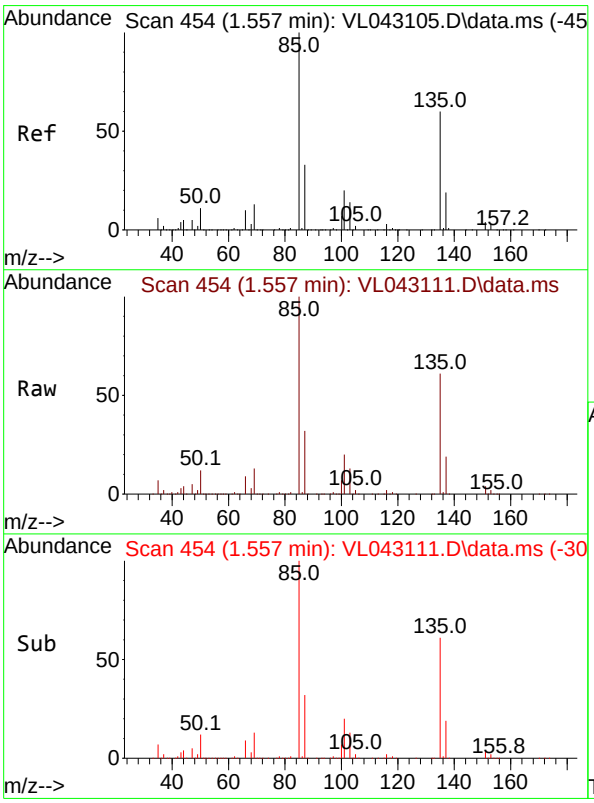
#7
Chloroethane
Concen: 12.164 ppbv
RT: 1.706 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 64 Resp: 27709

Ion	Ratio	Lower	Upper
64	100		
66	35.5	26.0	39.0

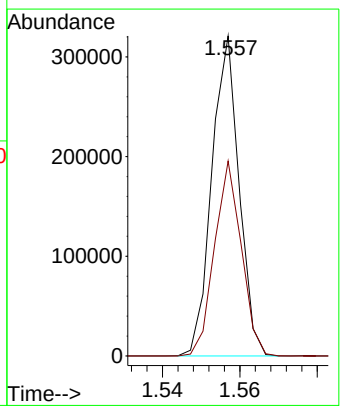


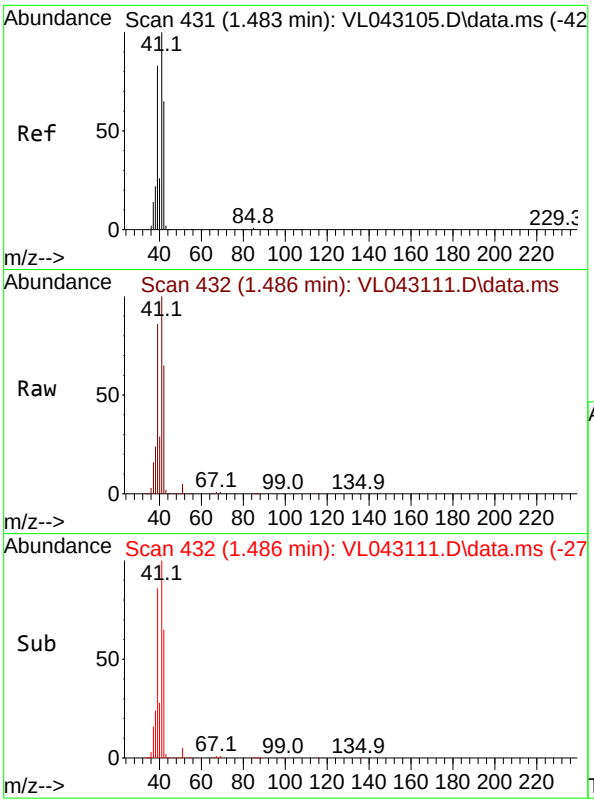


#8
Dichlorotetrafluoroethane
Concen: 13.526 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 156753

Ion	Ratio	Lower	Upper
85	100		
135	60.1	48.2	72.4



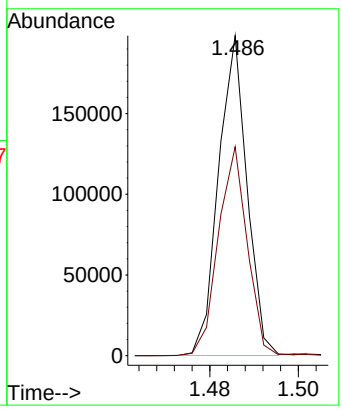


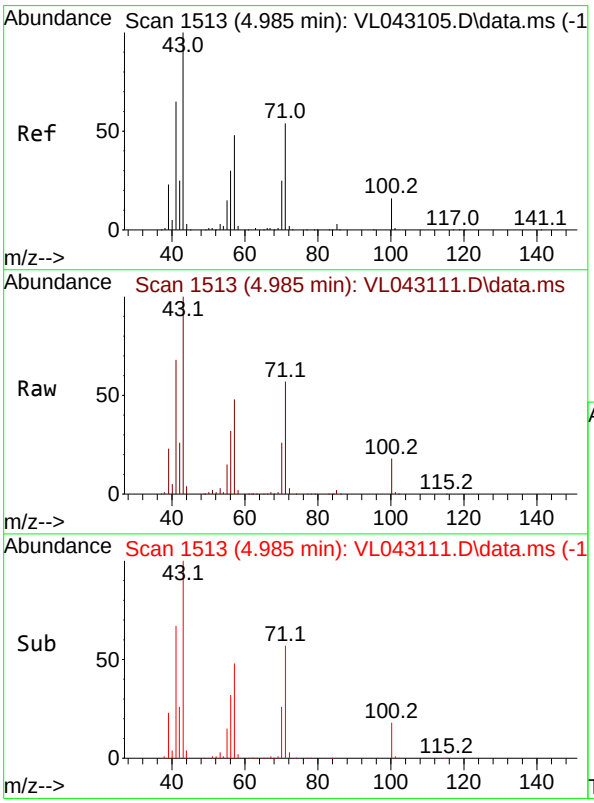
#9
Propene
Concen: 12.854 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 88451

Ion	Ratio	Lower	Upper
41	100		
42	67.2	55.1	82.7

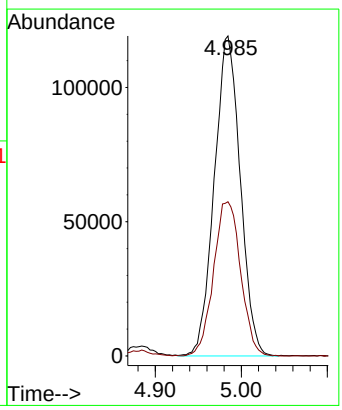


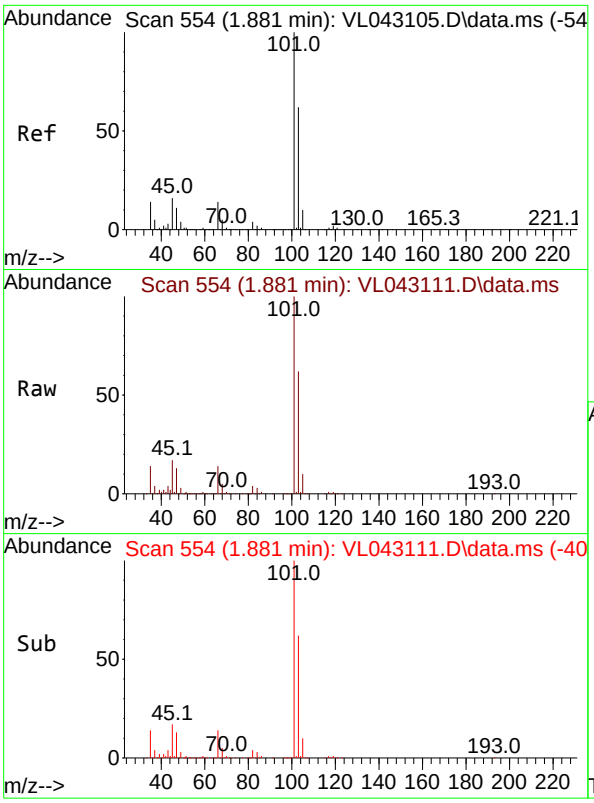


#10
Heptane
Concen: 12.658 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 249682

Ion	Ratio	Lower	Upper
43	100		
57	50.3	40.8	61.2



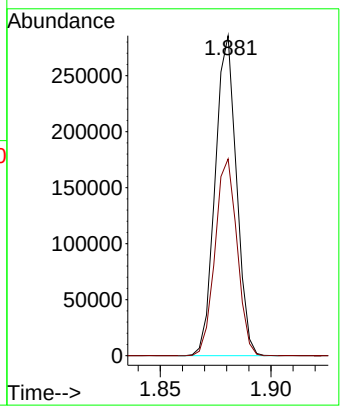


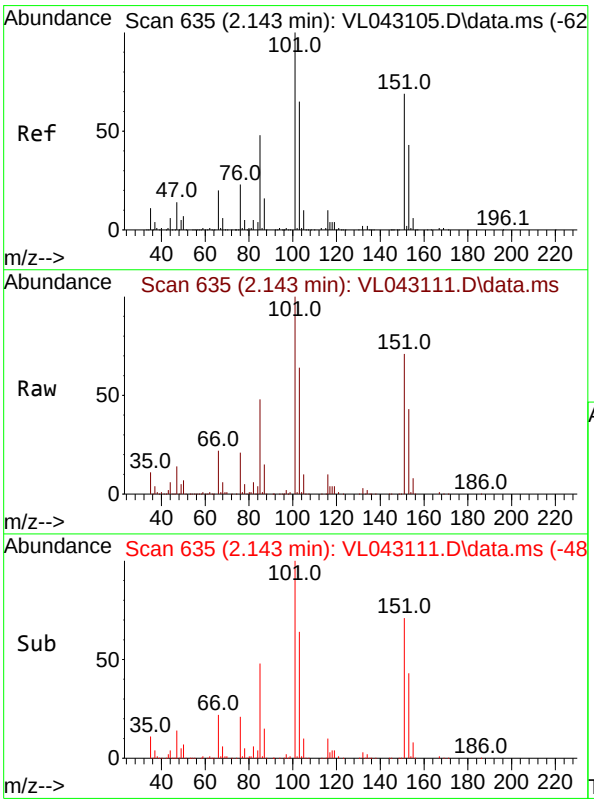
#11
Trichlorofluoromethane
Concen: 13.640 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:101 Resp: 191307

Ion	Ratio	Lower	Upper
101	100		
103	61.5	49.3	73.9

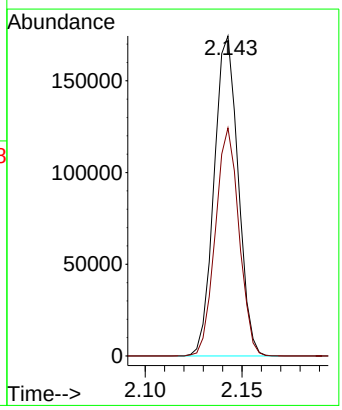


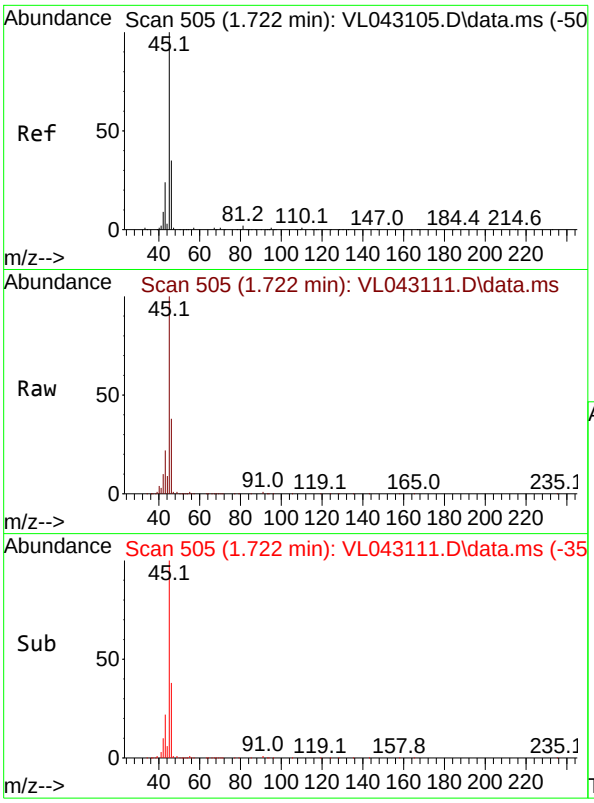


#12
1,1,2-Trichlorotrifluoroethane
Concen: 13.341 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:101 Resp: 150640

Ion	Ratio	Lower	Upper
101	100		
151	70.0	54.7	82.1



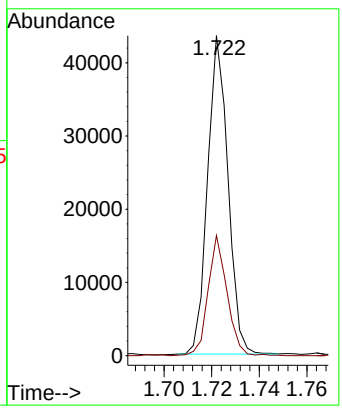


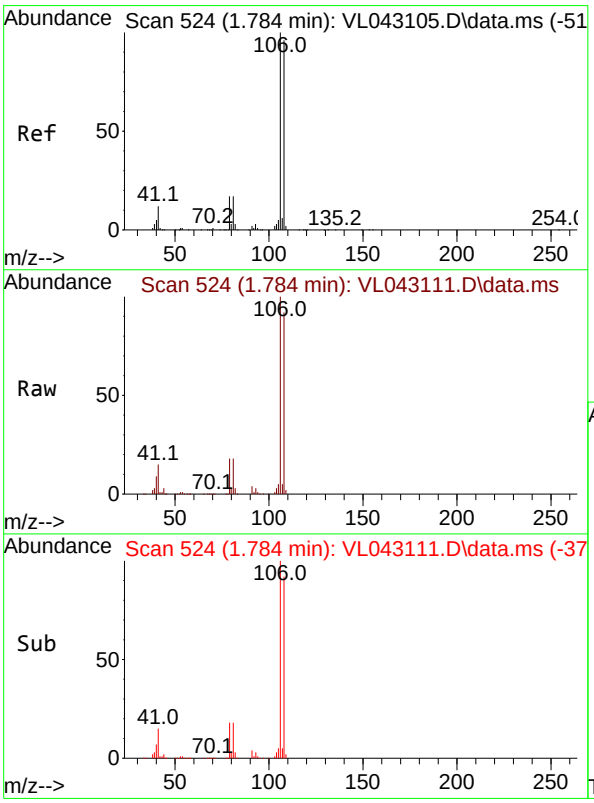
#13
Ethanol
Concen: 10.148 ppbv
RT: 1.722 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 25828

Ion	Ratio	Lower	Upper
45	100		
46	35.5	14.7	58.9

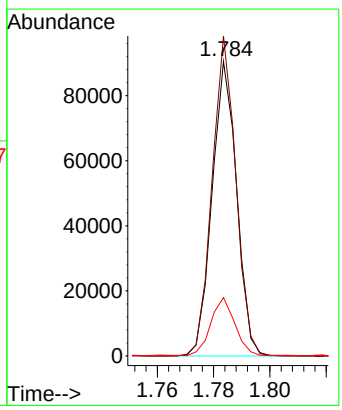


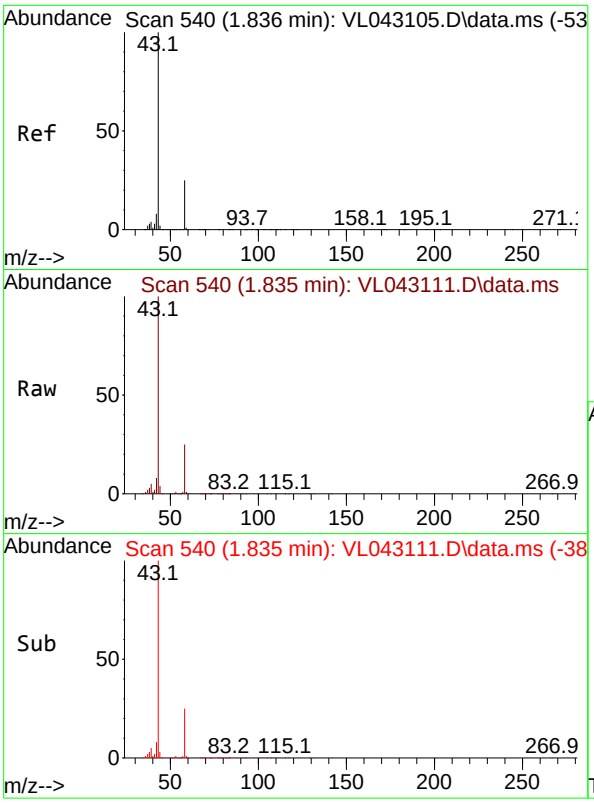


#14
Bromoethene
Concen: 13.068 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:108 Resp: 54818

Ion	Ratio	Lower	Upper
108	100		
106	104.9	84.4	126.6
79	20.2	15.3	22.9



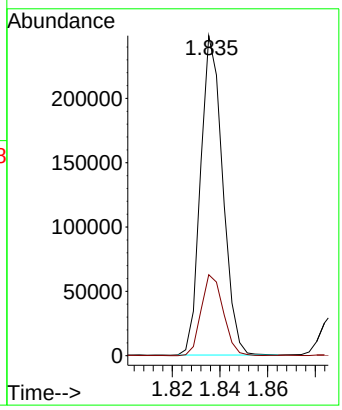


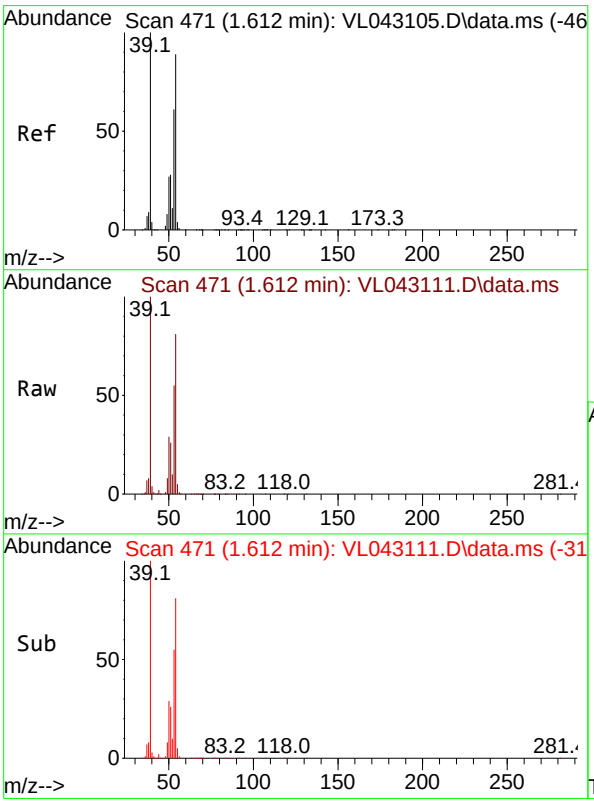
#15
Acetone
Concen: 11.710 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 160069

Ion	Ratio	Lower	Upper
43	100		
58	26.0	20.8	31.2

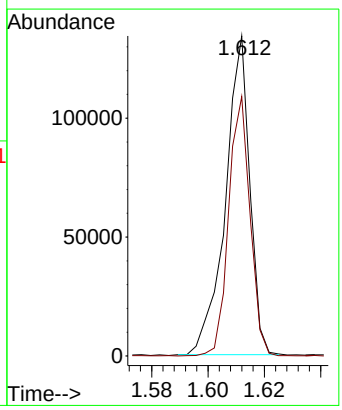


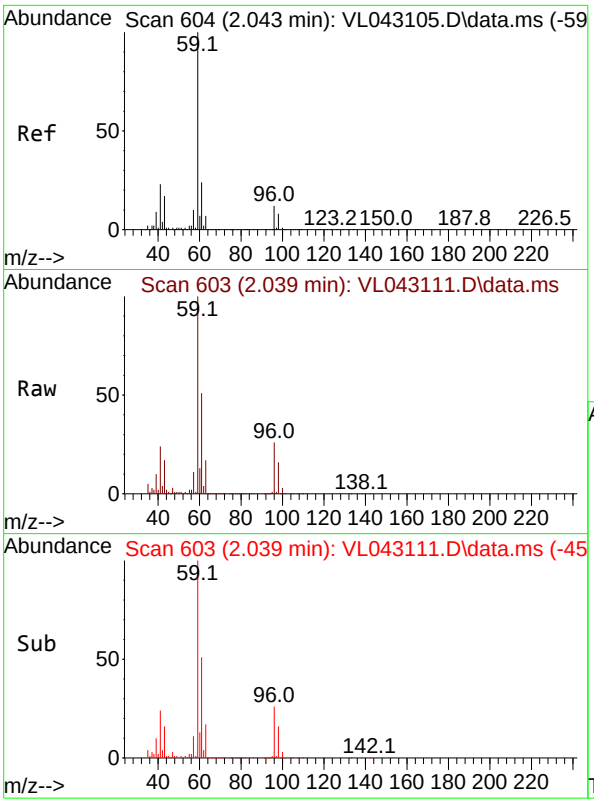


#16
1,3-Butadiene
Concen: 12.411 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 39 Resp: 80403

Ion	Ratio	Lower	Upper
39	100		
54	71.8	59.0	88.4



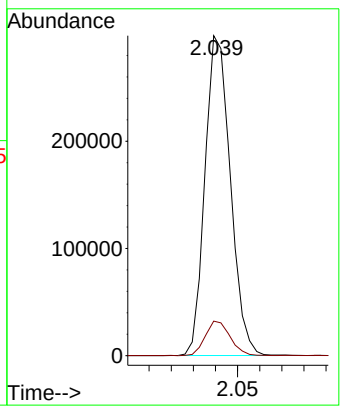


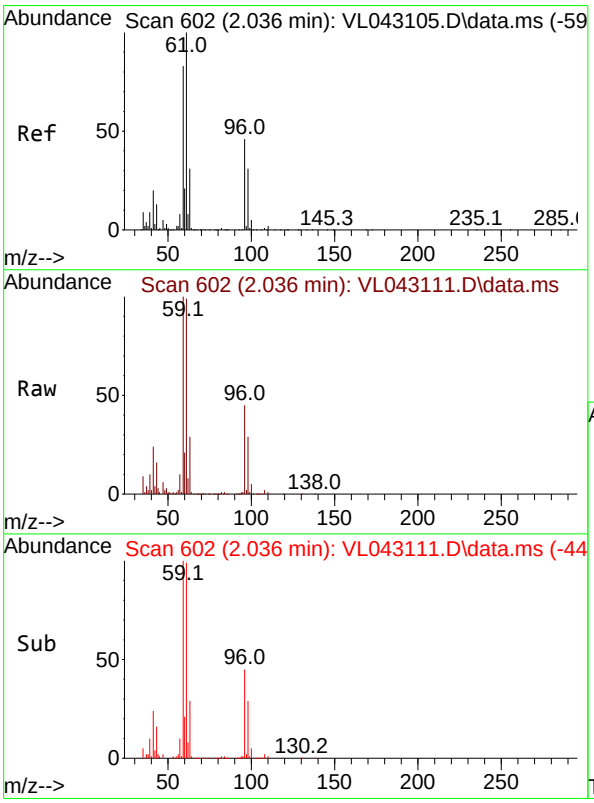
#17
tert-Butyl alcohol
Concen: 12.735 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 59 Resp: 237633

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.2	12.4

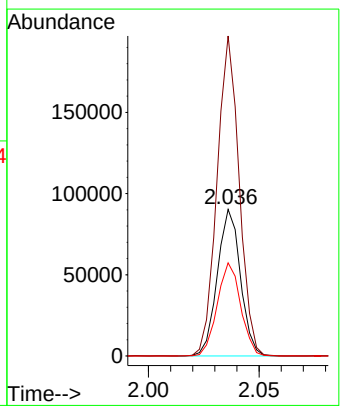


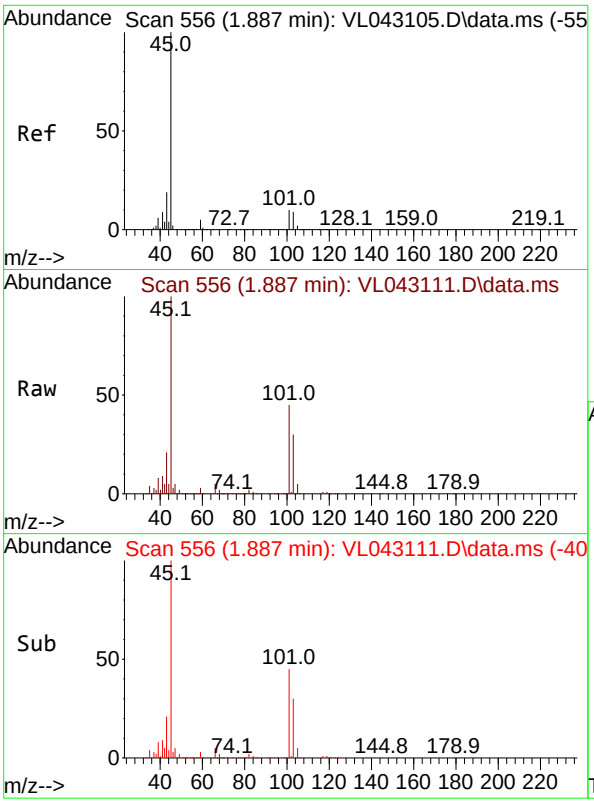


#18
1,1-Dichloroethene
Concen: 13.333 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 96 Resp: 65634

Ion	Ratio	Lower	Upper
96	100		
61	218.2	173.4	260.0
98	63.5	53.2	79.8



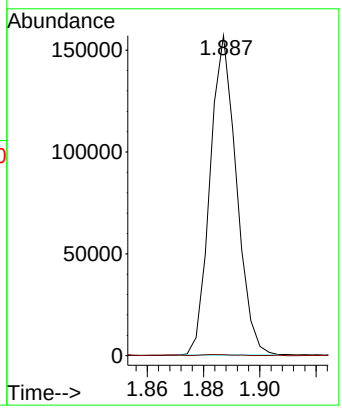


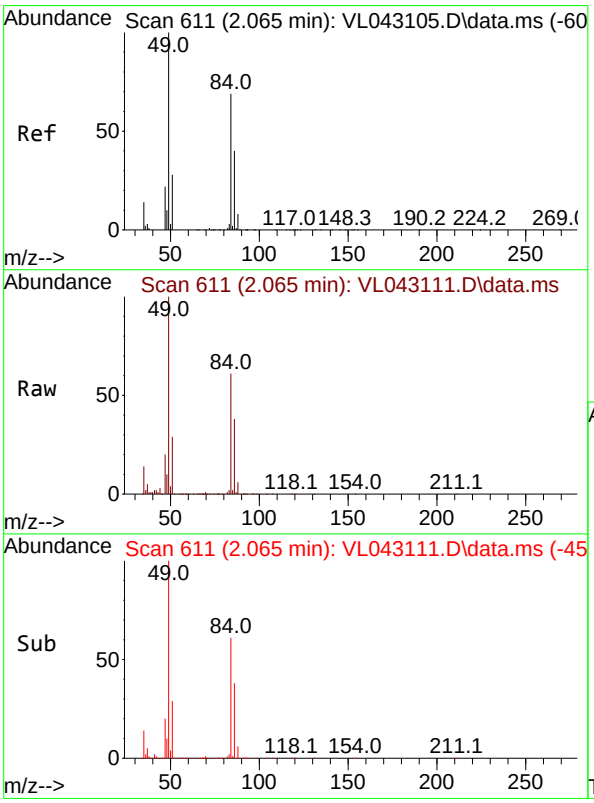
#19
Isopropyl Alcohol
Concen: 12.051 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 102035

Ion	Ratio	Lower	Upper
45	100		
58	40.2	31.3	46.9

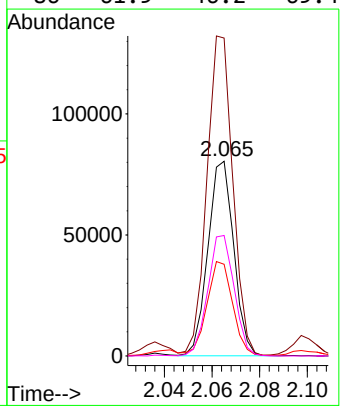


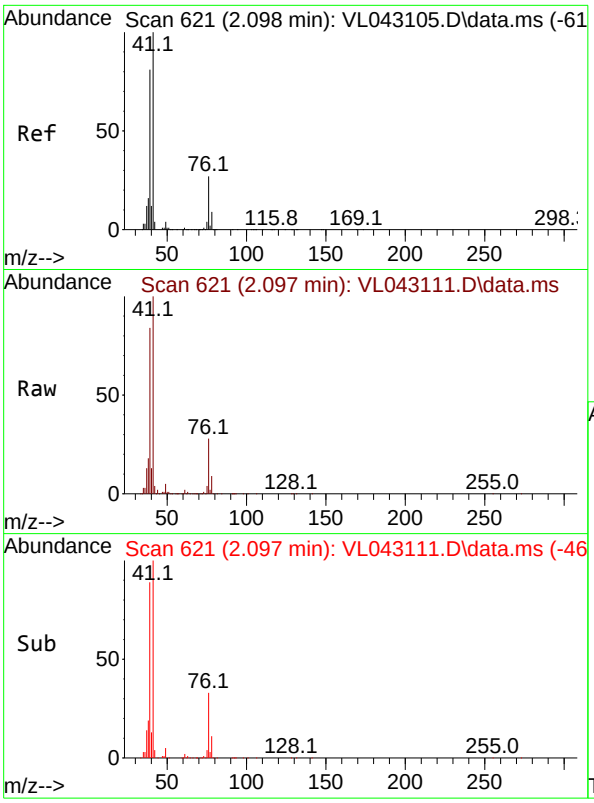


#20
Methylene Chloride
Concen: 11.268 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 84 Resp: 60549

Ion	Ratio	Lower	Upper
84	100		
49	162.4	116.6	175.0
51	46.6	34.8	52.2
86	61.9	46.2	69.4



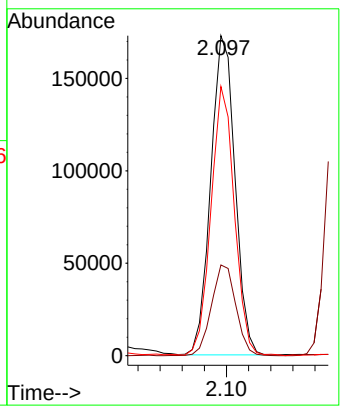


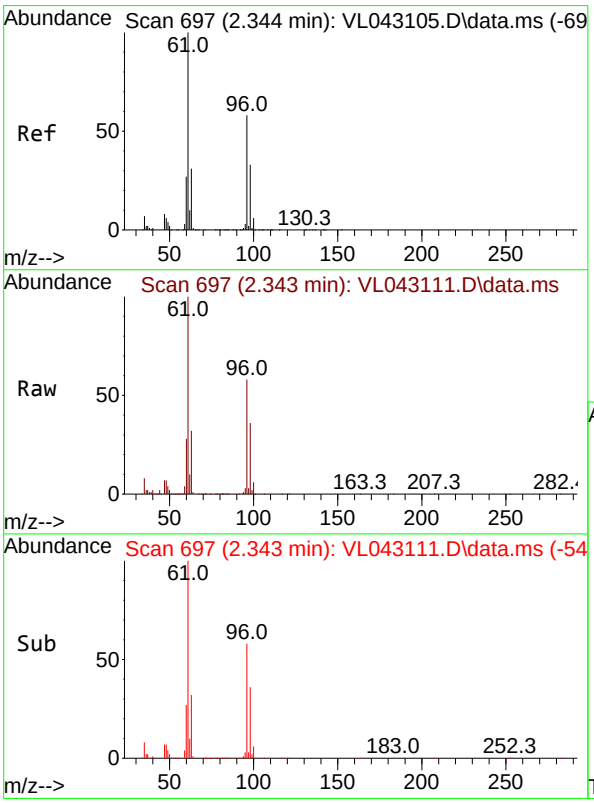
#21
Allyl Chloride
Concen: 13.105 ppbv
RT: 2.097 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 131539

Ion	Ratio	Lower	Upper
41	100		
76	28.8	21.5	32.3
39	80.9	60.8	91.2

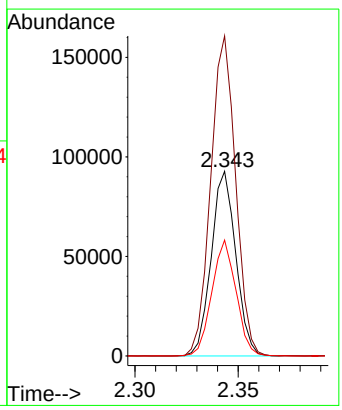


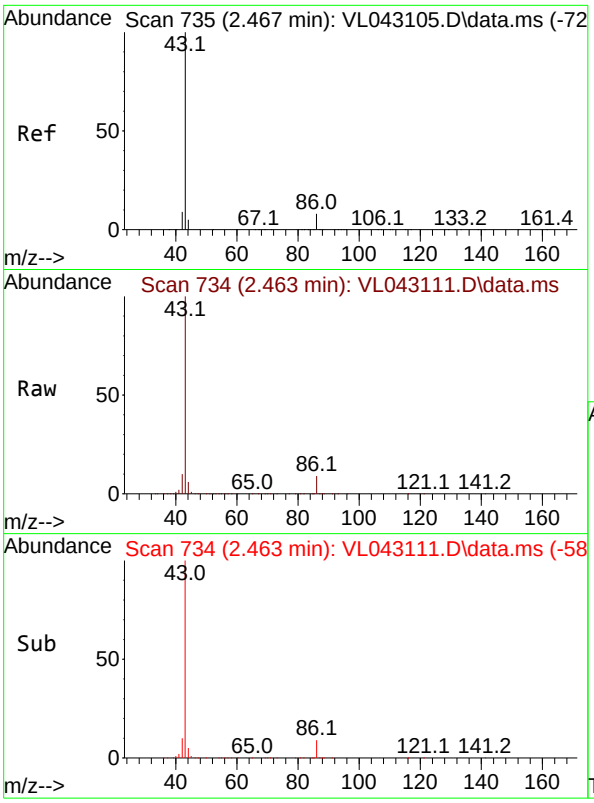


#22
trans-1,2-Dichloroethene
Concen: 13.048 ppbv
RT: 2.343 min Scan# 697
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 96 Resp: 76780

Ion	Ratio	Lower	Upper
96	100		
61	173.2	137.0	205.6
98	62.8	45.5	68.3



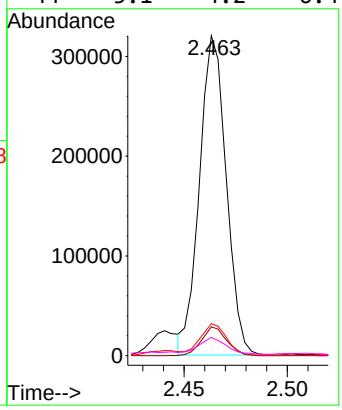


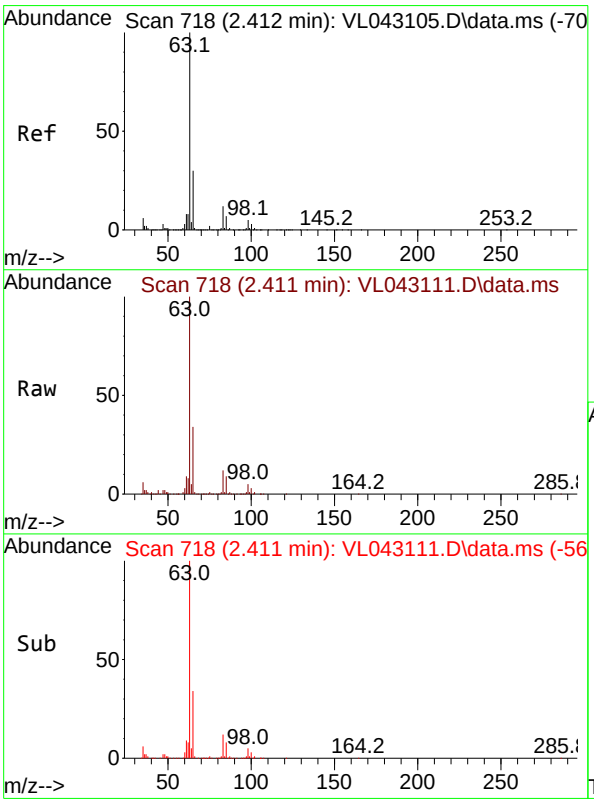
#23
Vinyl Acetate
Concen: 14.476 ppbv
RT: 2.463 min Scan# 7
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 288274

Ion	Ratio	Lower	Upper
43	100		
86	9.0	6.2	9.2
42	10.0	7.6	11.4
44	5.1	4.2	6.4

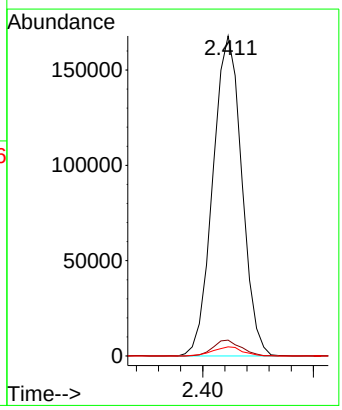


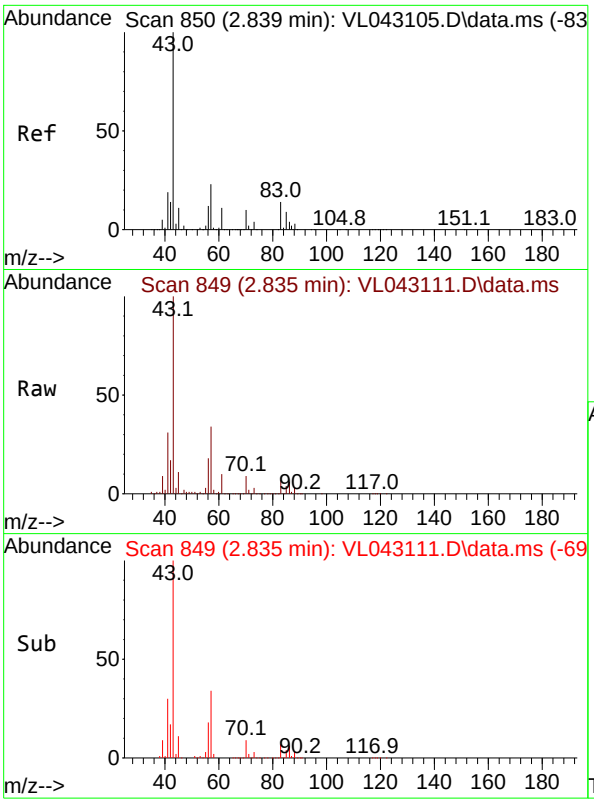


#24
1,1-Dichloroethane
Concen: 13.428 ppbv
RT: 2.411 min Scan# 718
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 63 Resp: 152663

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.6	7.8
100	2.8	1.5	4.4



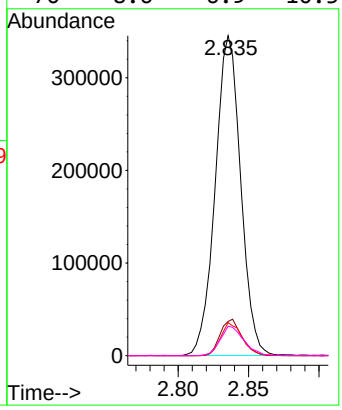


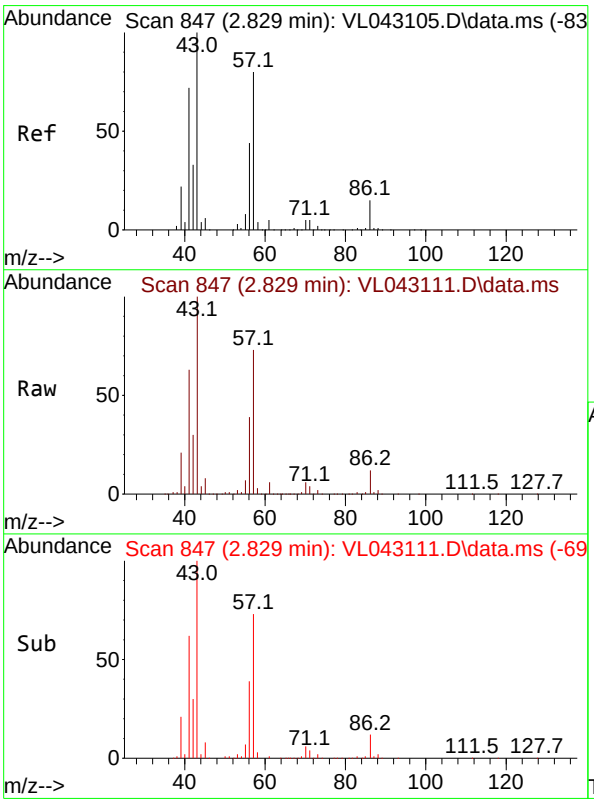
#25
Ethyl Acetate
Concen: 12.884 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 434350

Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	8.9	7.0	10.6
70	8.6	6.9	10.3

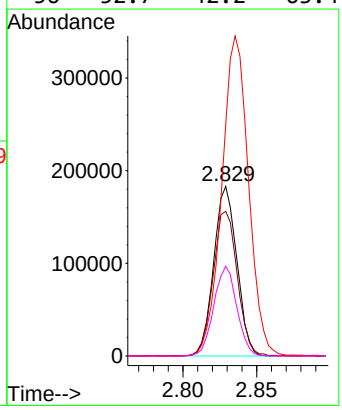


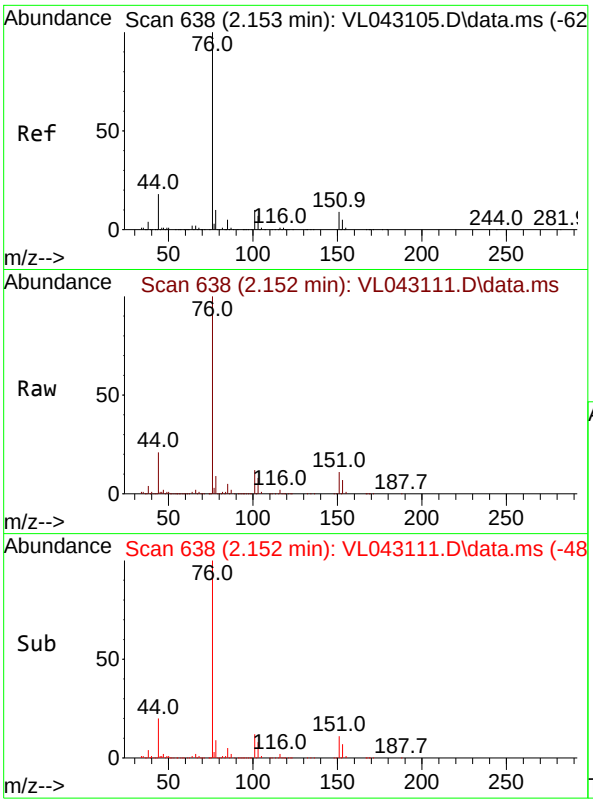


#26
Hexane
Concen: 12.836 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 199384

Ion	Ratio	Lower	Upper
57	100		
41	89.9	71.4	107.0
43	218.2	178.5	267.7
56	52.7	42.2	63.4



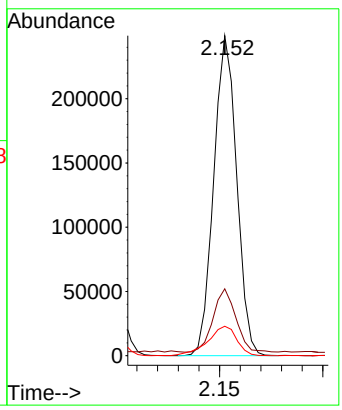


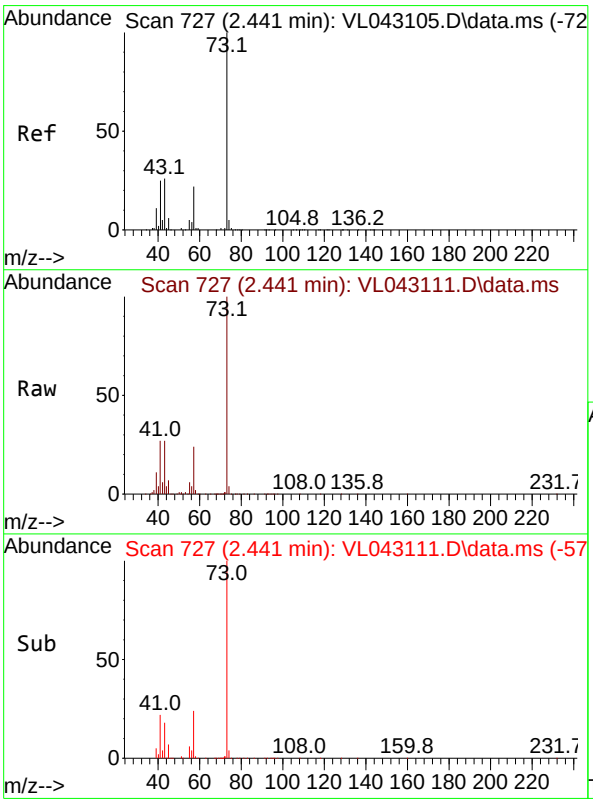
#27
Carbon Disulfide
Concen: 13.522 ppbv
RT: 2.152 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 76 Resp: 192452

Ion	Ratio	Lower	Upper
76	100		
44	20.6	16.7	25.1
78	11.6	9.3	13.9

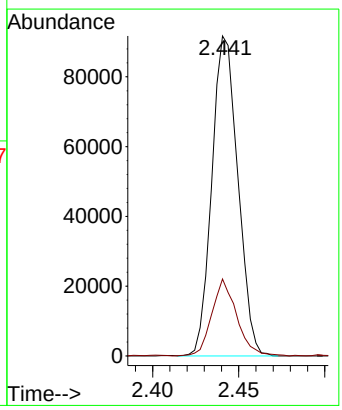


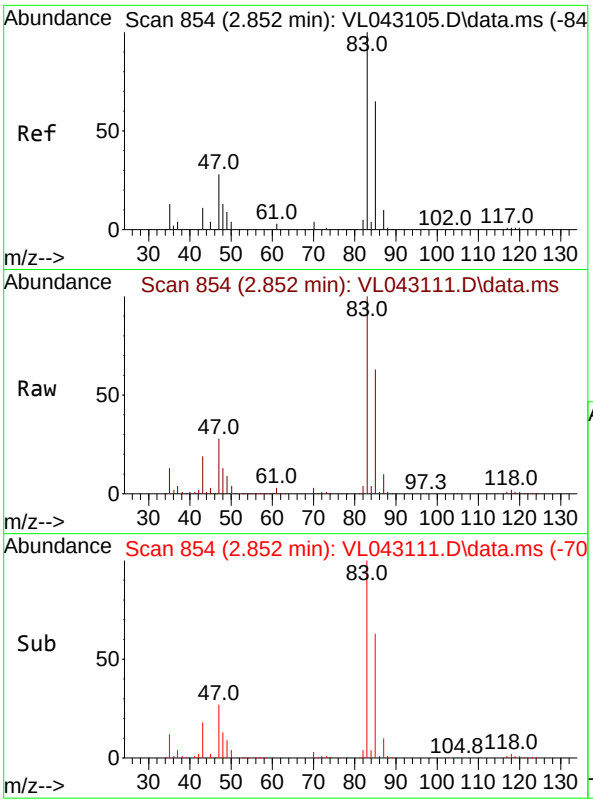


#28
Methyl tert-Butyl Ether
Concen: 13.650 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 73 Resp: 96464

Ion	Ratio	Lower	Upper
73	100		
57	22.7	20.5	30.7



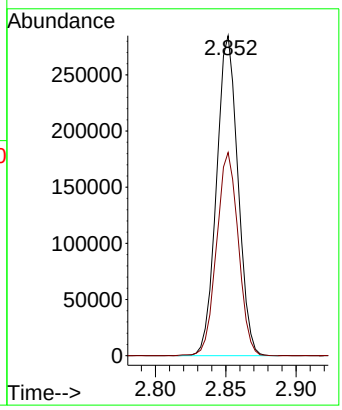


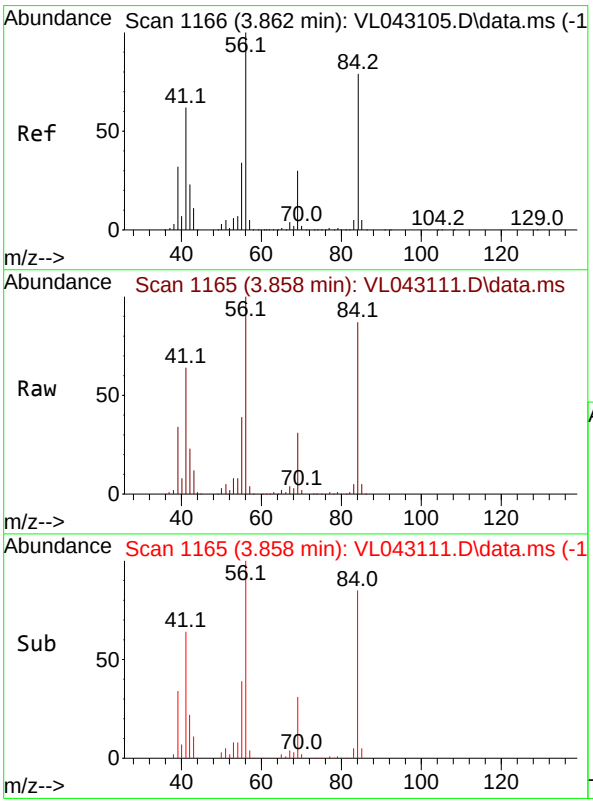
#29
Chloroform
Concen: 13.425 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 302154

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.6

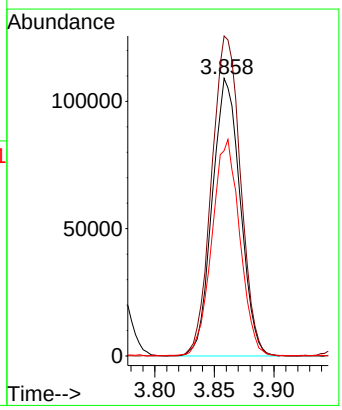


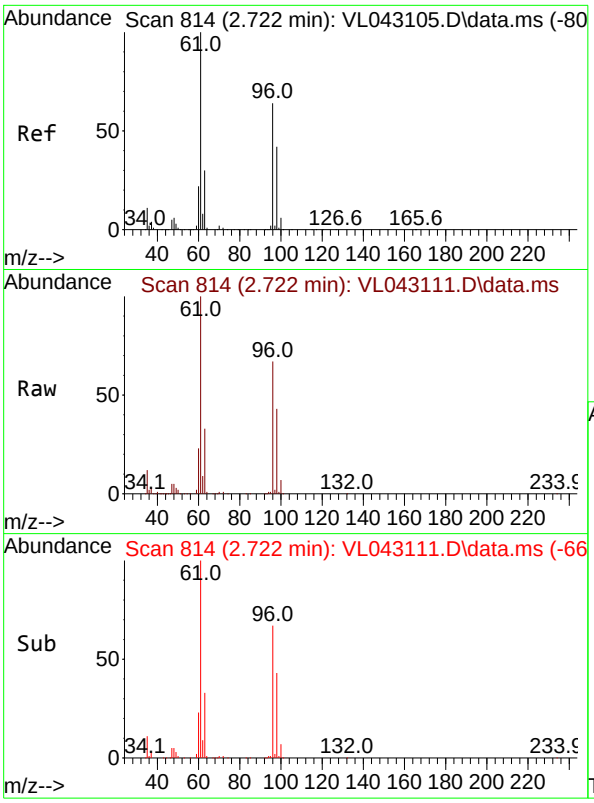


#30
Cyclohexane
Concen: 13.133 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 84 Resp: 177947

Ion	Ratio	Lower	Upper
84	100		
56	119.1	100.9	151.3
41	77.3	63.8	95.6



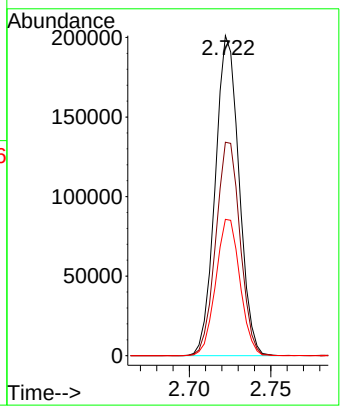


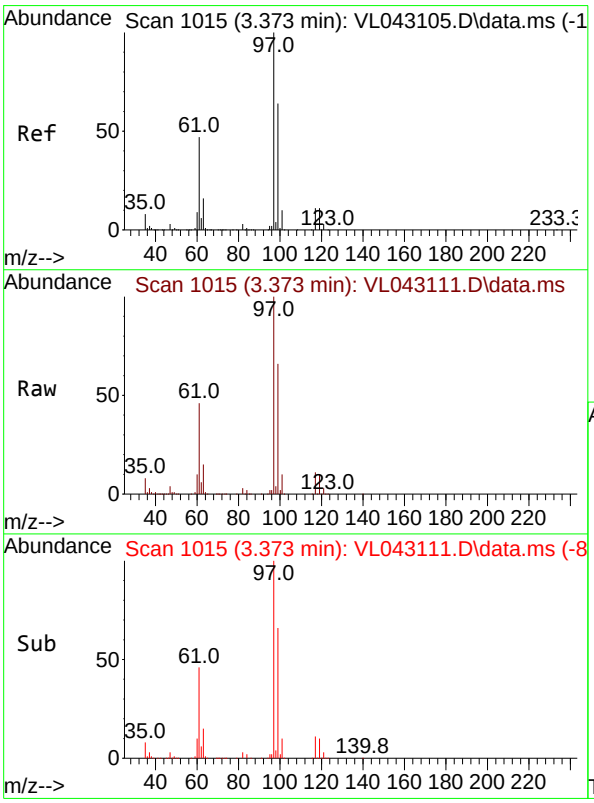
#31
cis-1,2-Dichloroethene
Concen: 13.745 ppbv
RT: 2.722 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 61 Resp: 203888

Ion	Ratio	Lower	Upper
61	100		
96	66.7	51.0	76.6
98	42.6	33.5	50.3

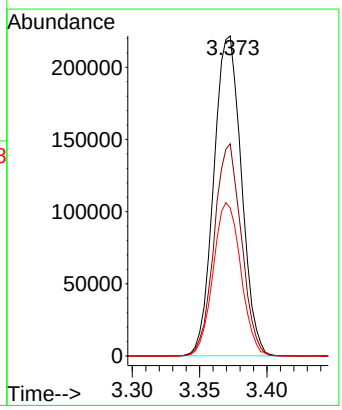


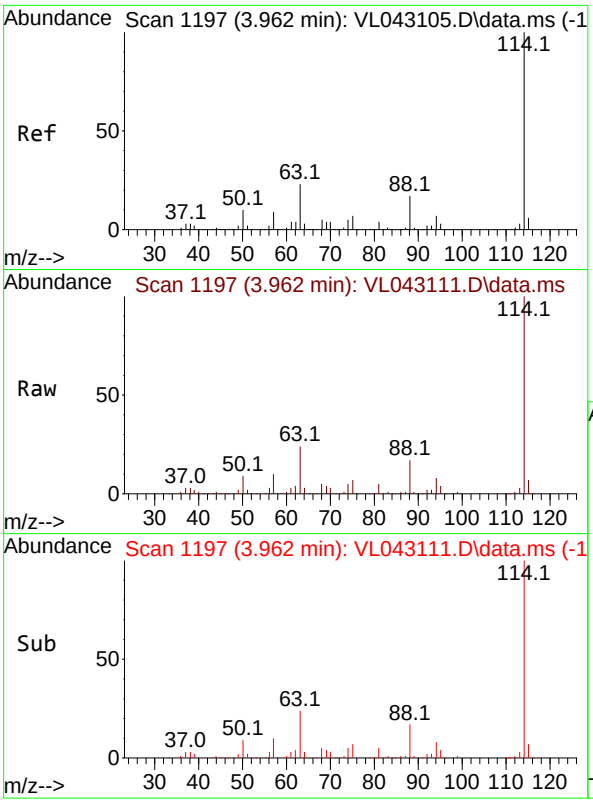


#32
1,1,1-Trichloroethane
Concen: 13.500 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 97 Resp: 316442

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.3	76.9
61	48.0	38.4	57.6



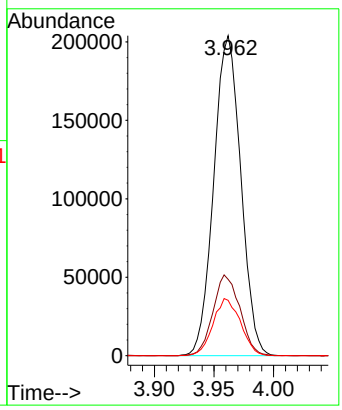


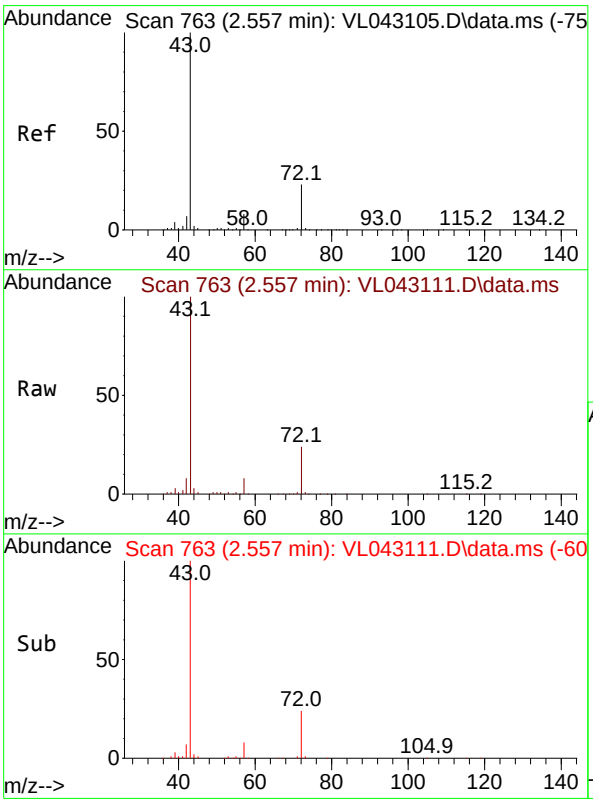
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:114 Resp: 321665

Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.3	28.9
88	18.1	13.9	20.9

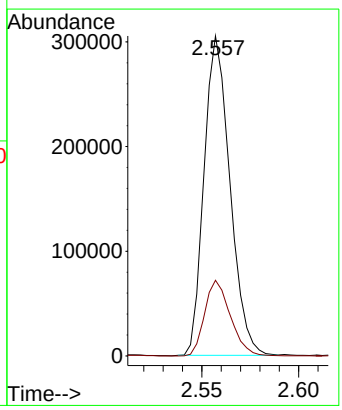


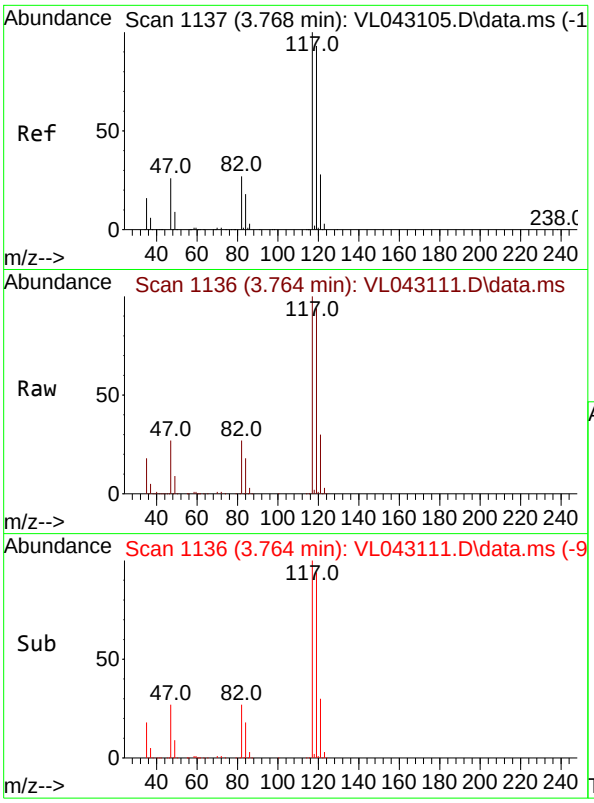


#34
2-Butanone
Concen: 13.020 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 283134

Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.4	27.6



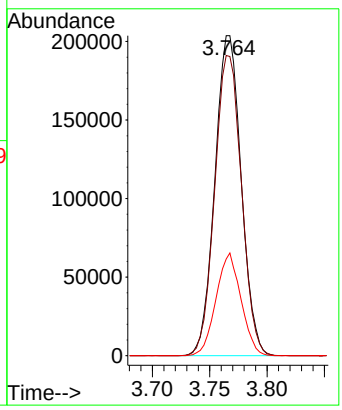


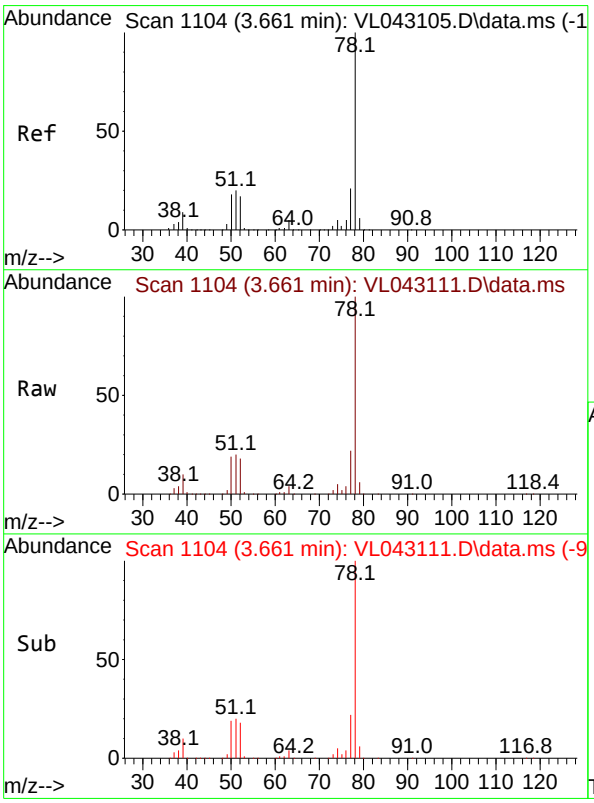
#35
Carbon Tetrachloride
Concen: 14.056 ppbv
RT: 3.764 min Scan# 11
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 325078

Ion	Ratio	Lower	Upper
117	100		
119	93.8	74.1	111.1
121	30.2	22.2	33.2

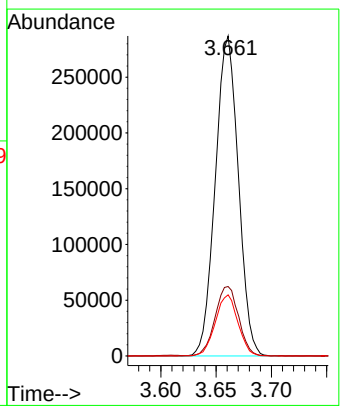


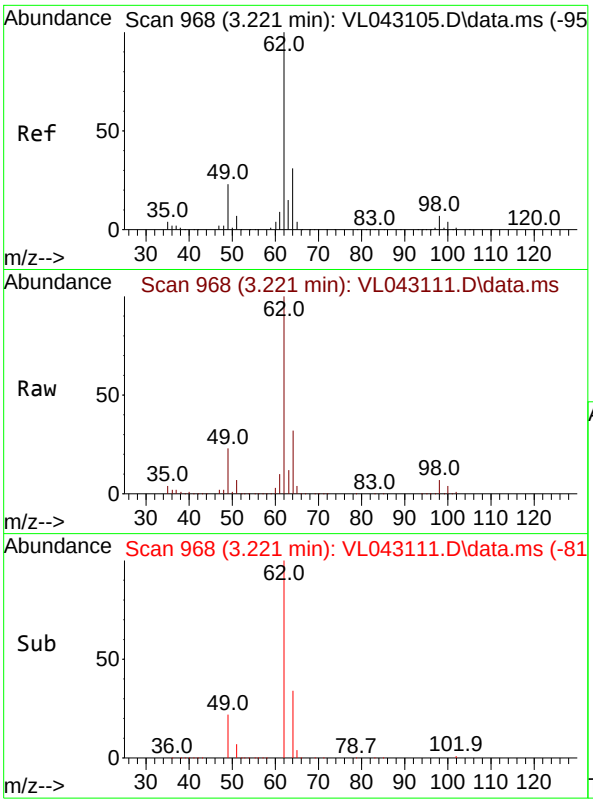


#36
Benzene
Concen: 13.725 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 78 Resp: 415823

Ion	Ratio	Lower	Upper
78	100		
77	21.6	17.0	25.6
50	19.1	14.6	22.0



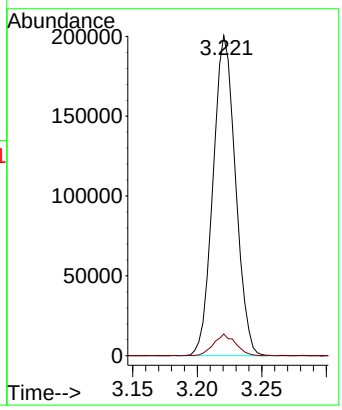


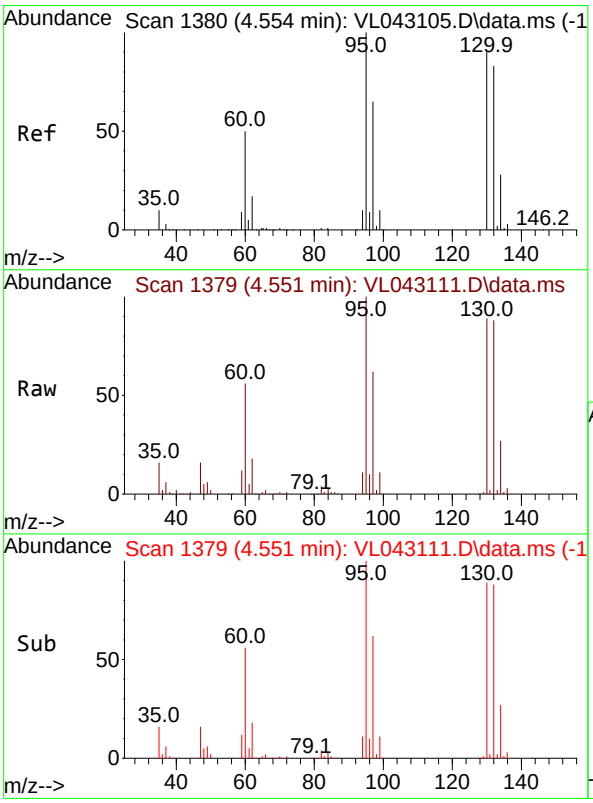
#37
1,2-Dichloroethane
Concen: 13.865 ppbv
RT: 3.221 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 241983

Ion	Ratio	Lower	Upper
62	100		
98	6.6	5.8	8.6

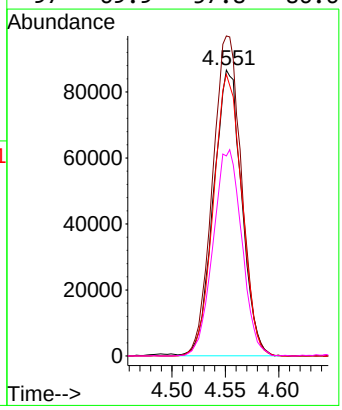


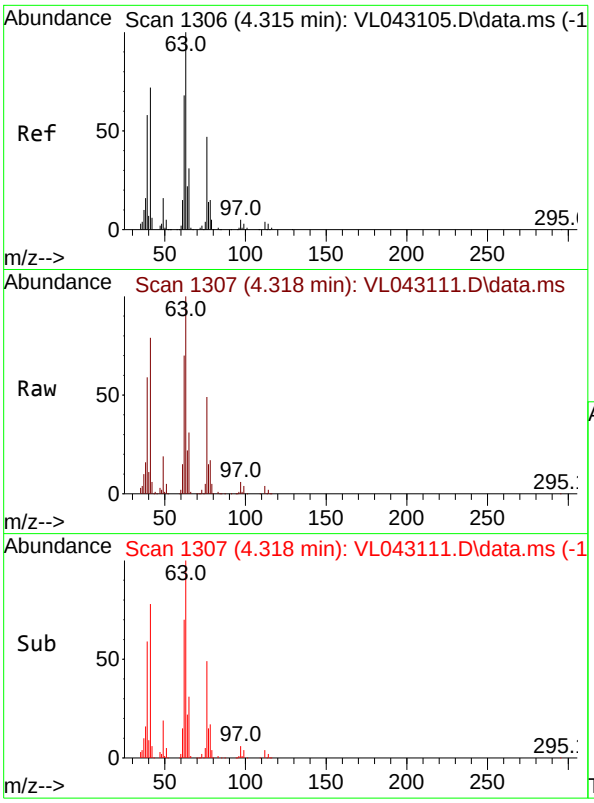


#38
Trichloroethene
Concen: 12.590 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:130 Resp: 159136

Ion	Ratio	Lower	Upper
130	100		
95	111.8	88.6	133.0
132	98.5	73.4	110.0
97	69.9	57.8	86.6



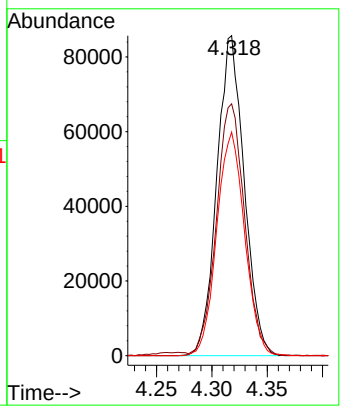


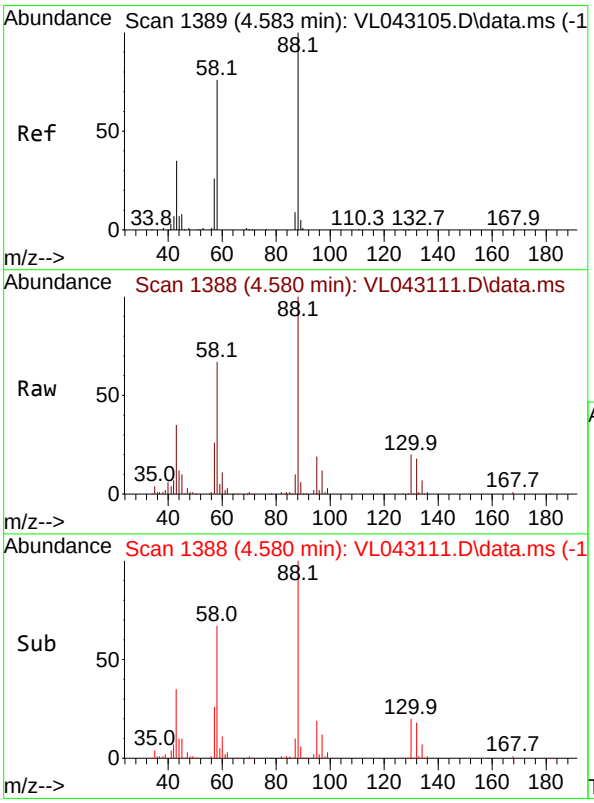
#39
1,2-Dichloropropane
Concen: 13.274 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 63 Resp: 147155

Ion	Ratio	Lower	Upper
63	100		
41	78.4	58.0	87.0
62	69.9	54.7	82.1

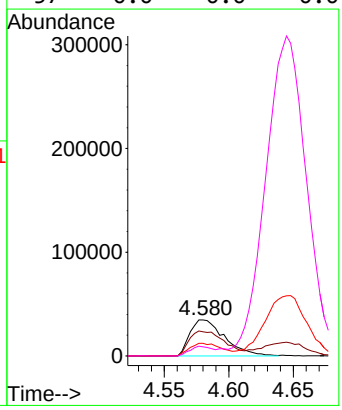


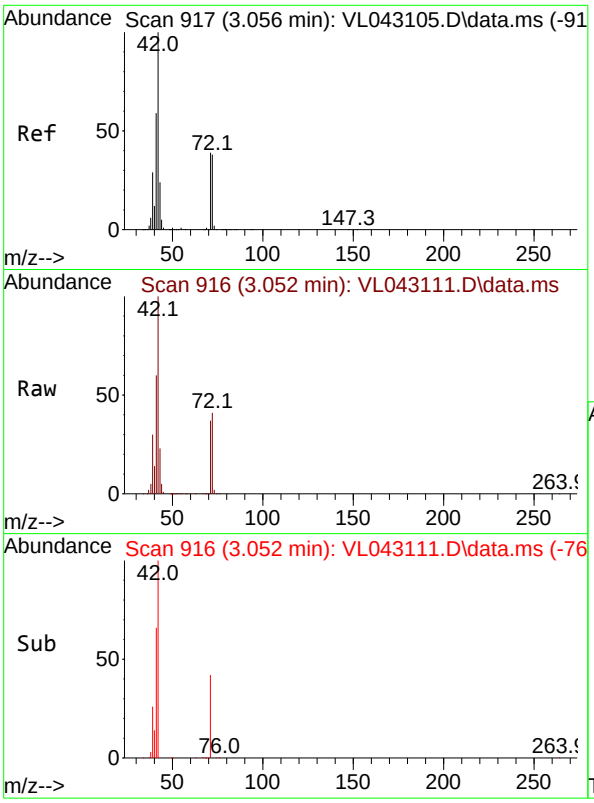


#40
1,4-Dioxane
Concen: 13.180 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 88 Resp: 65323

Ion	Ratio	Lower	Upper
88	100		
58	69.1	61.1	91.7
43	30.0	24.0	36.0
57	0.0	0.0	0.0



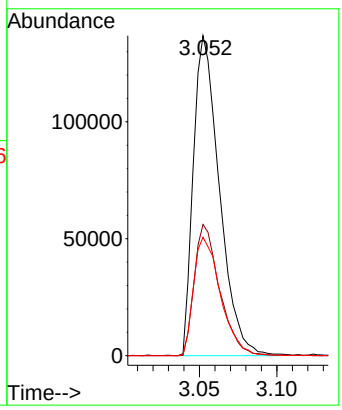


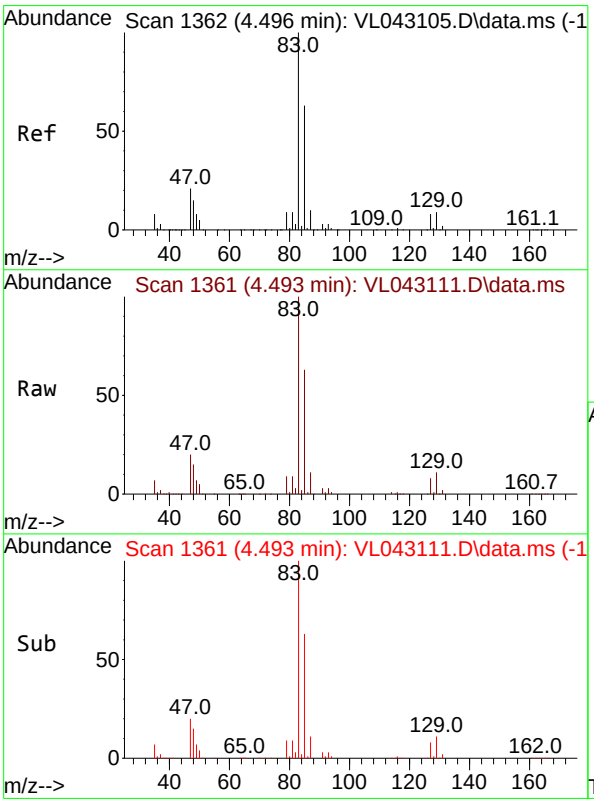
#41
Tetrahydrofuran
Concen: 13.200 ppbv
RT: 3.052 min Scan# 9
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 42 Resp: 160247

Ion	Ratio	Lower	Upper
42	100		
72	40.0	31.3	46.9
71	38.2	30.4	45.6

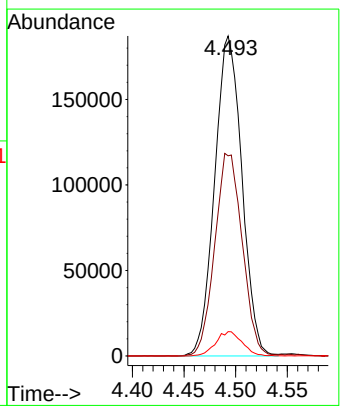


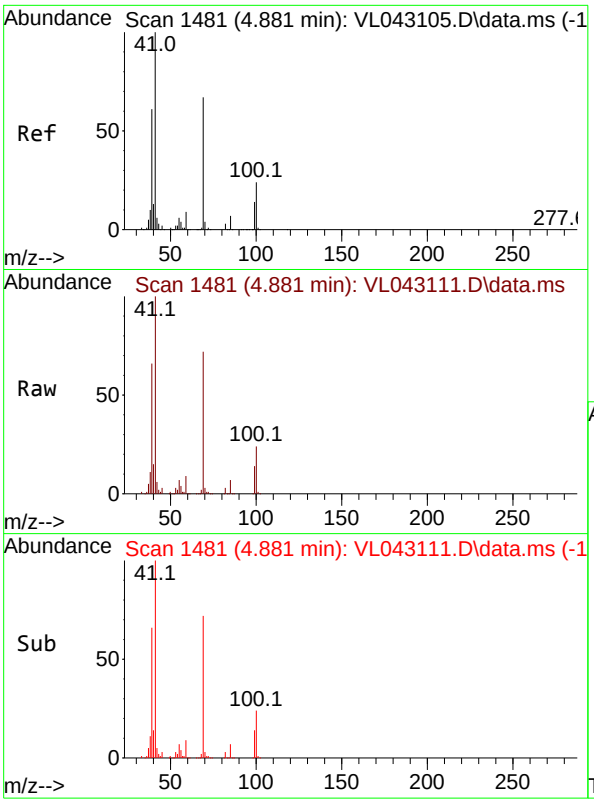


#42
Bromodichloromethane
Concen: 14.234 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 83 Resp: 343817

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.6	75.8
127	7.6	6.3	9.5



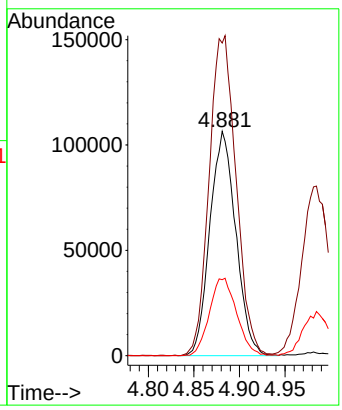


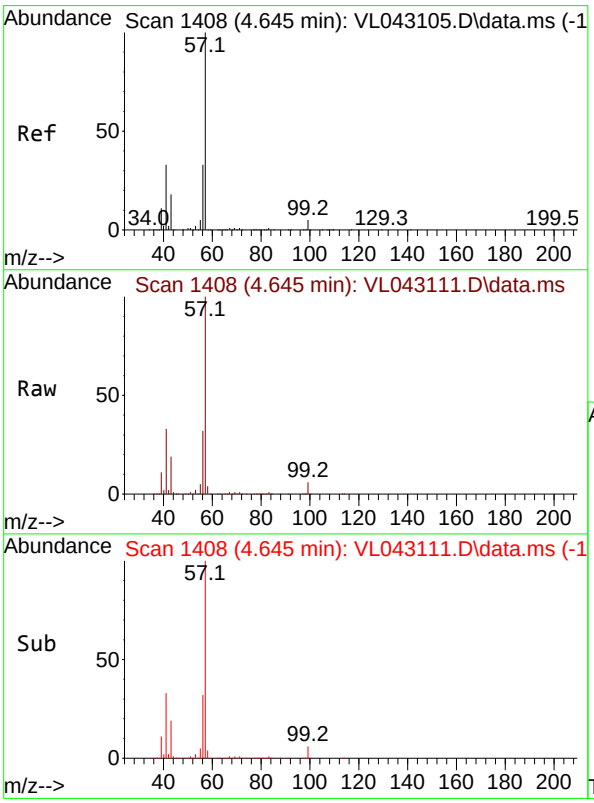
#43
Methyl Methacrylate
Concen: 13.633 ppbv
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 69 Resp: 210756

Ion	Ratio	Lower	Upper
69	100		
41	148.2	120.5	180.7
100	36.3	29.0	43.4

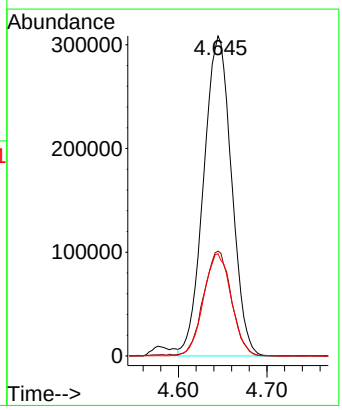


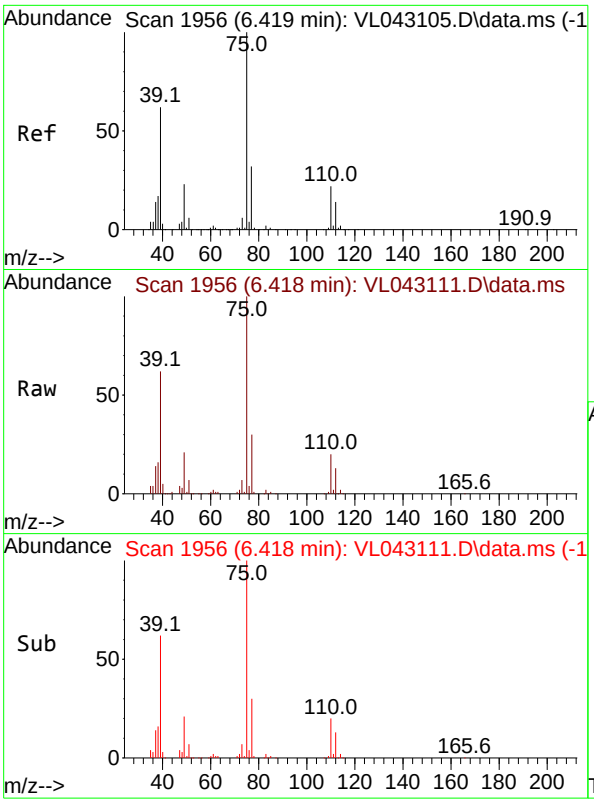


#44
2,2,4-Trimethylpentane
Concen: 13.340 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 675770

Ion	Ratio	Lower	Upper
57	100		
41	33.2	26.3	39.5
56	31.9	25.9	38.9



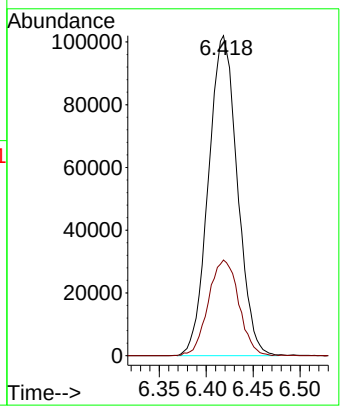


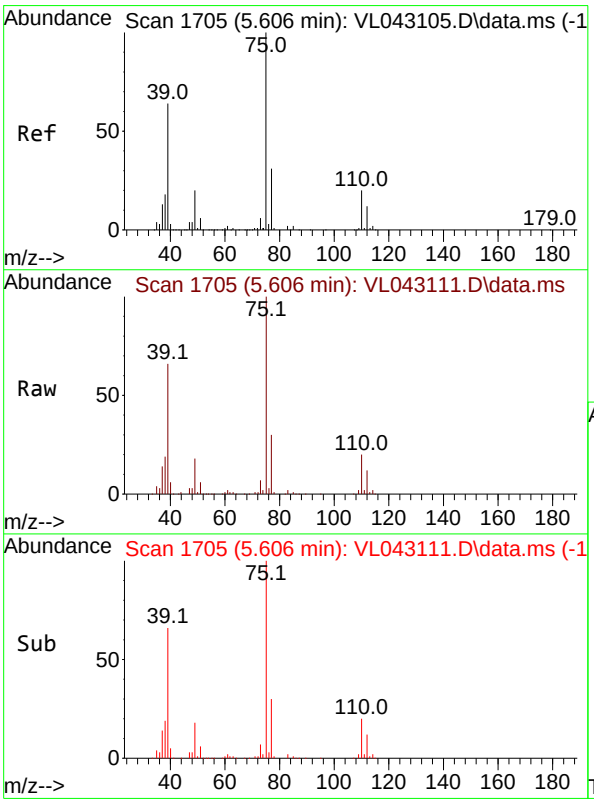
#45
t-1,3-Dichloropropene
Concen: 14.142 ppbv
RT: 6.418 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 75 Resp: 218386

Ion	Ratio	Lower	Upper
75	100		
77	29.9	25.4	38.2

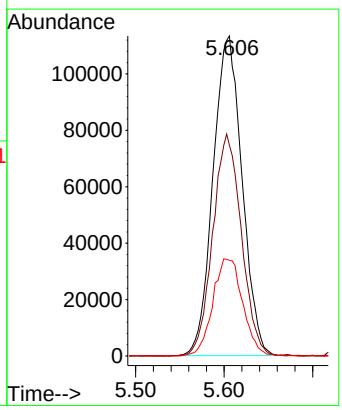


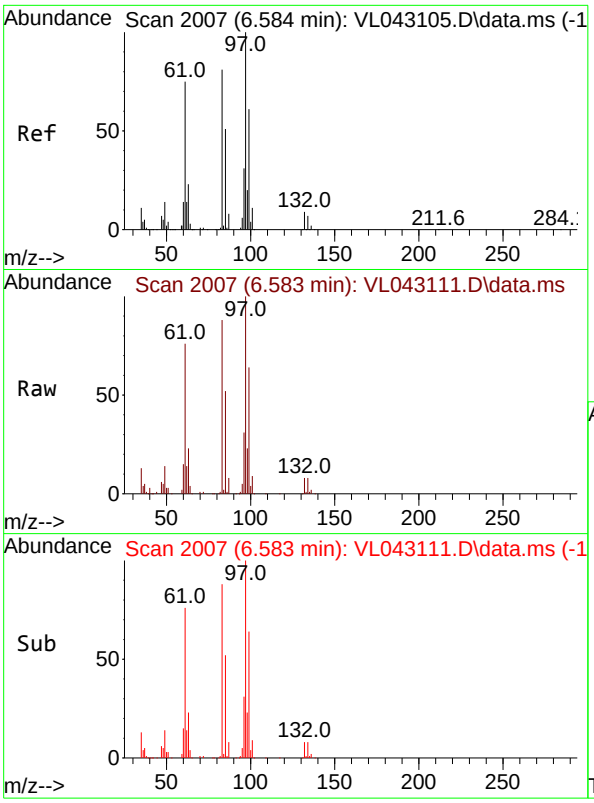


#46
cis-1,3-Dichloropropene
Concen: 14.018 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 75 Resp: 258355

Ion	Ratio	Lower	Upper
75	100		
39	65.8	51.0	76.6
77	29.9	25.0	37.4



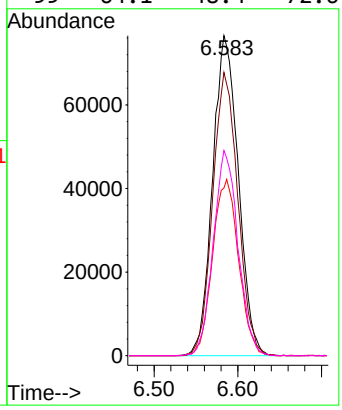


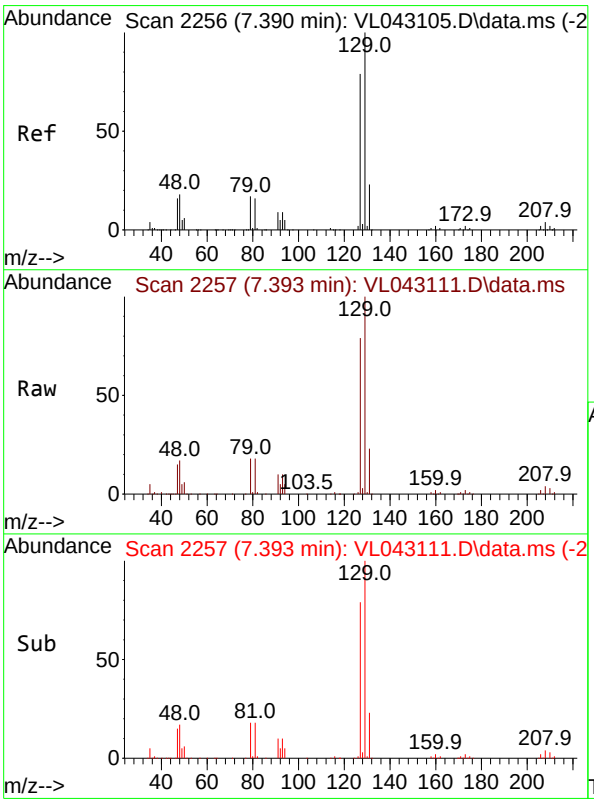
#47
1,1,2-Trichloroethane
Concen: 13.638 ppbv
RT: 6.583 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 97 Resp: 163113

Ion	Ratio	Lower	Upper
97	100		
83	88.4	64.6	96.8
85	52.4	40.6	60.8
99	64.1	48.4	72.6

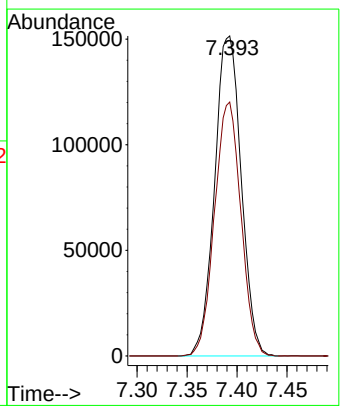


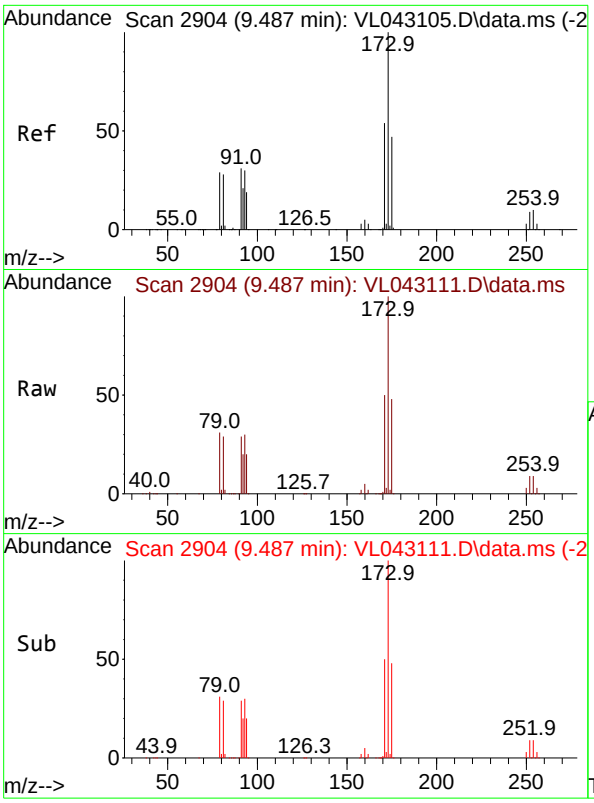


#48
Dibromochloromethane
Concen: 14.051 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:129 Resp: 280993

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9



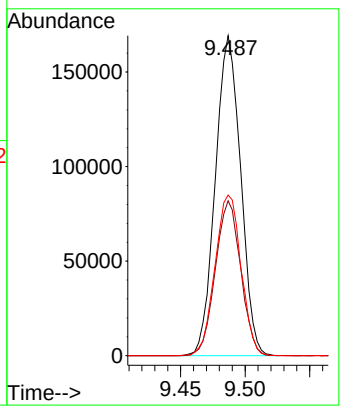


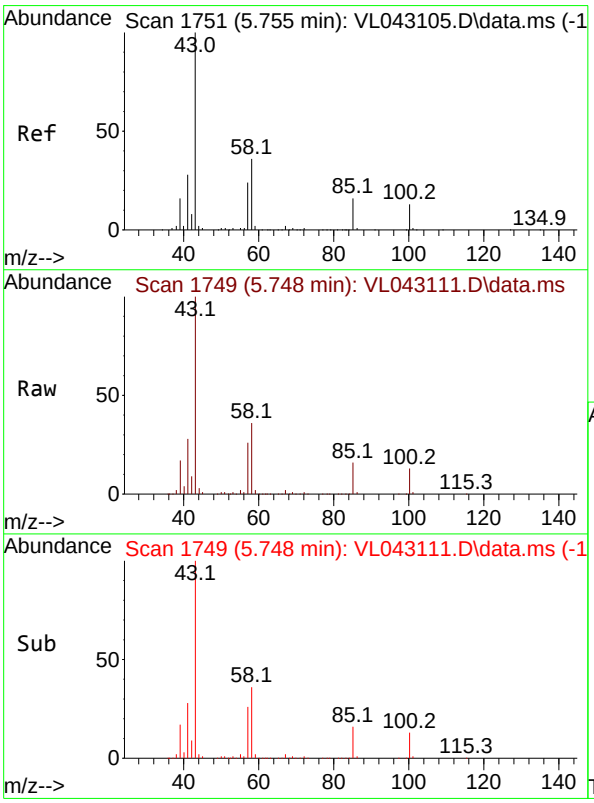
#49
Bromoform
Concen: 14.184 ppbv
RT: 9.487 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:173 Resp: 230561

Ion	Ratio	Lower	Upper
173	100		
175	48.5	38.8	58.2
171	51.7	41.7	62.5

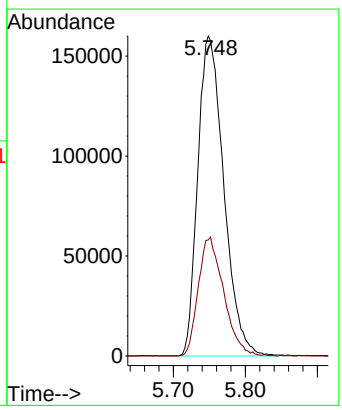


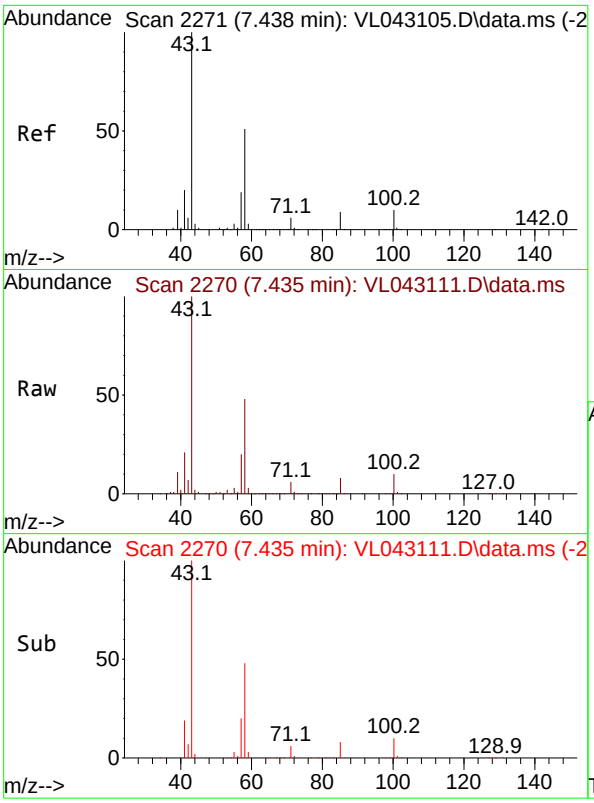


#50
4-Methyl-2-Pentanone
Concen: 13.396 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.007 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 401849

Ion	Ratio	Lower	Upper
43	100		
58	36.3	29.1	43.7



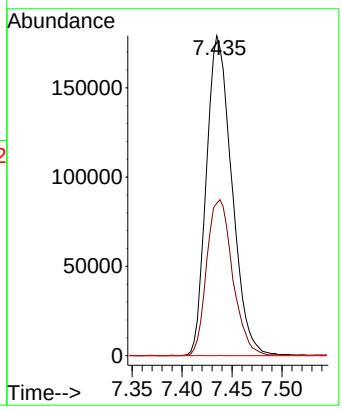


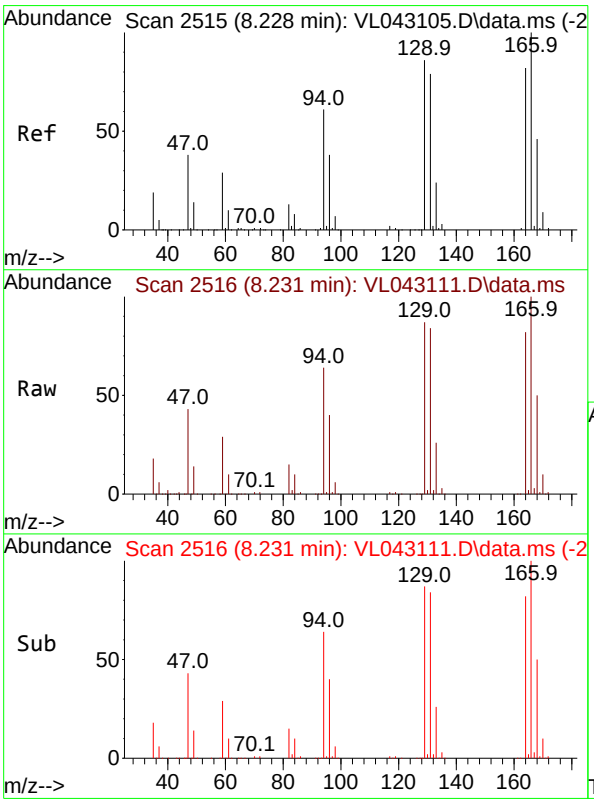
#51
2-Hexanone
Concen: 14.176 ppbv
RT: 7.435 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 317288

Ion	Ratio	Lower	Upper
43	100		
58	49.8	40.4	60.6
98	0.0	0.1	0.1#

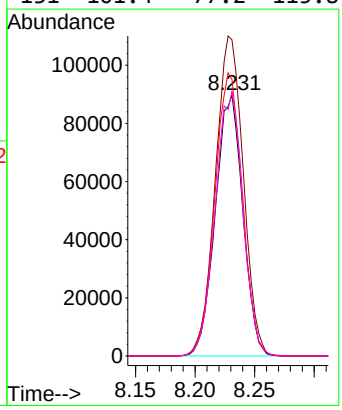


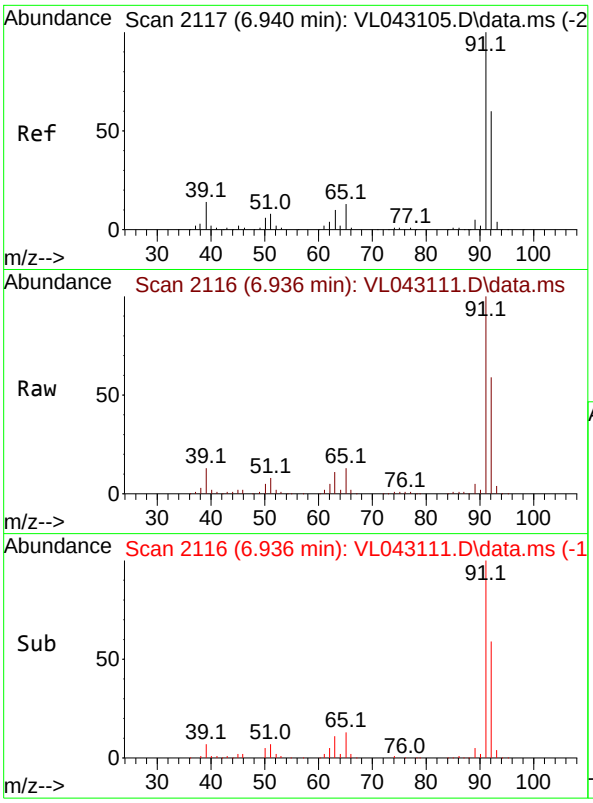


#52
Tetrachloroethene
Concen: 13.177 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:164 Resp: 143954

Ion	Ratio	Lower	Upper
164	100		
166	121.3	97.6	146.4
129	106.0	84.5	126.7
131	101.4	77.2	115.8



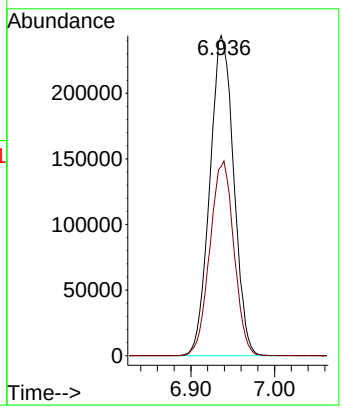


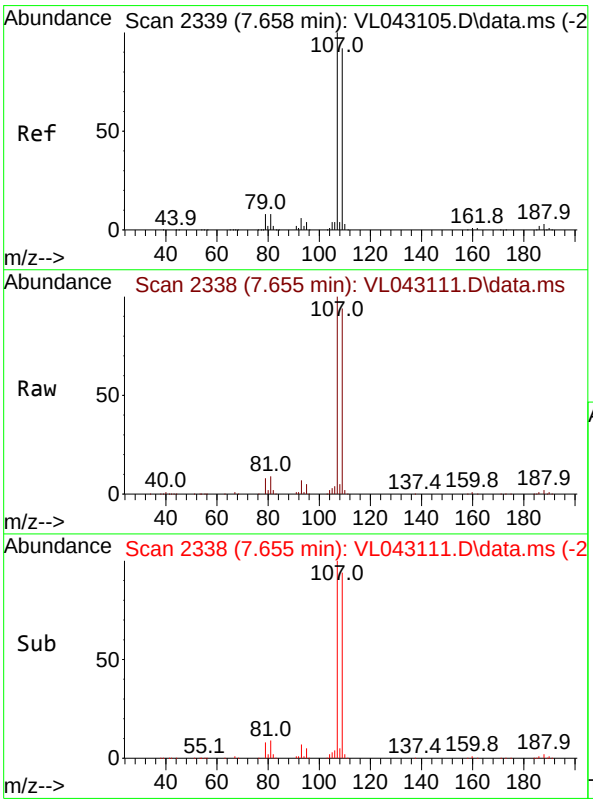
#53
Toluene
Concen: 13.457 ppbv
RT: 6.936 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 483870

Ion	Ratio	Lower	Upper
91	100		
92	61.1	48.8	73.2

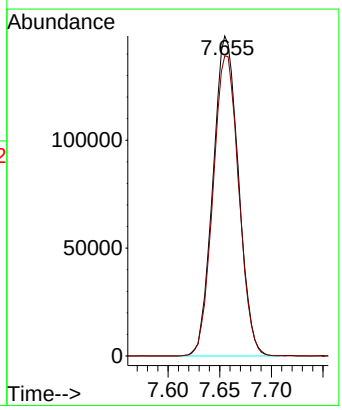


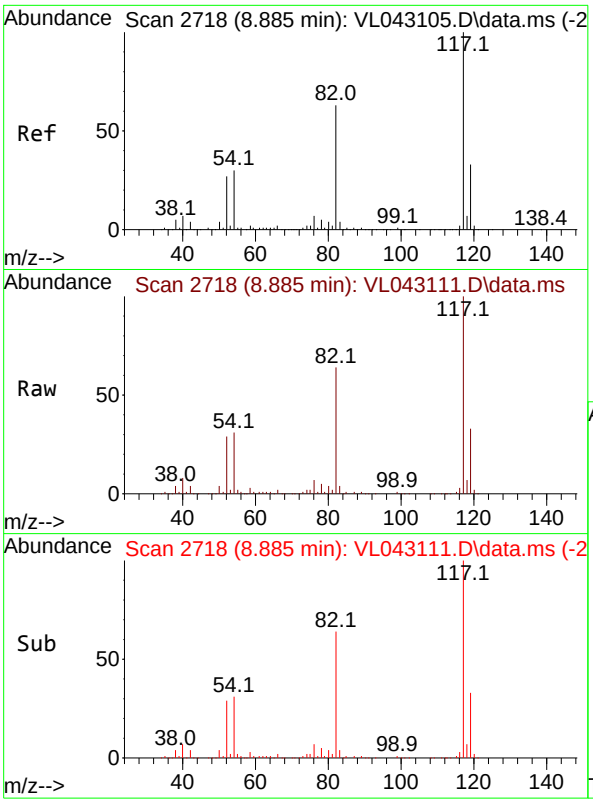


#54
1,2-Dibromoethane
Concen: 13.461 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:107 Resp: 254024

Ion	Ratio	Lower	Upper
107	100		
109	93.8	73.4	110.2



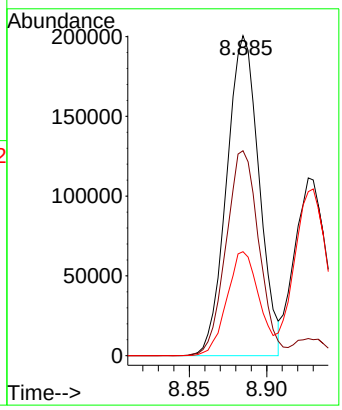


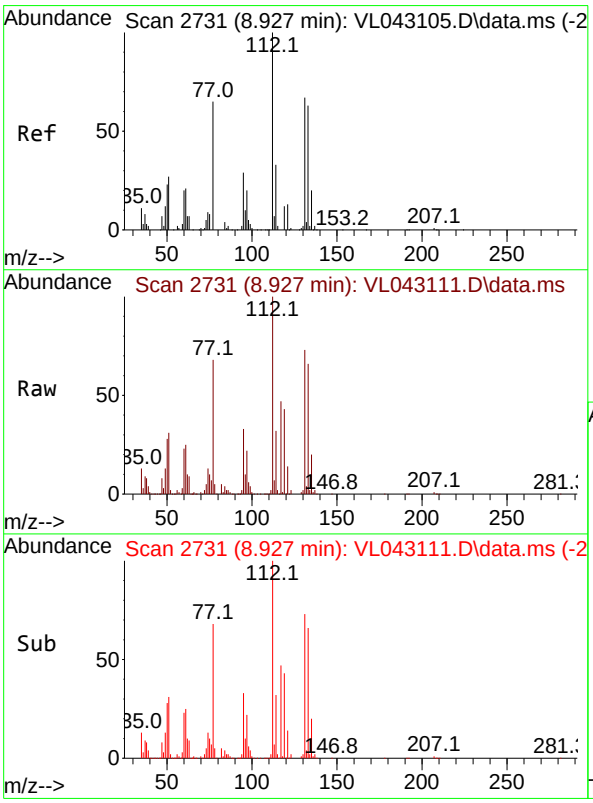
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 292542

Ion	Ratio	Lower	Upper
117	100		
82	70.2	53.8	80.8
119	33.1	25.4	38.0

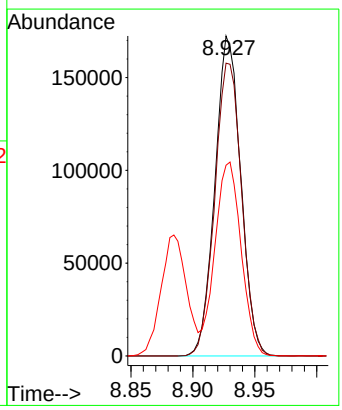


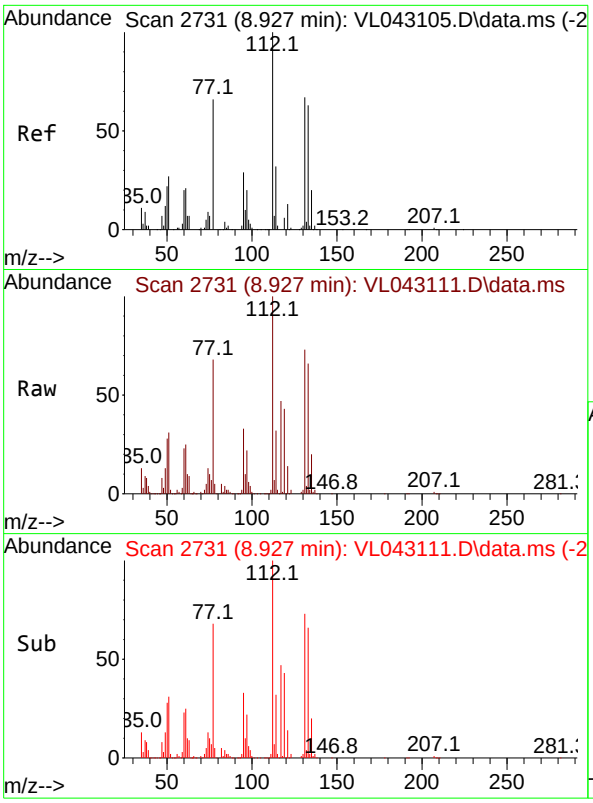


#56
1,1,1,2-Tetrachloroethane
Concen: 13.573 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:131 Resp: 250303

Ion	Ratio	Lower	Upper
131	100		
133	95.1	75.7	113.5
119	61.9	50.6	76.0



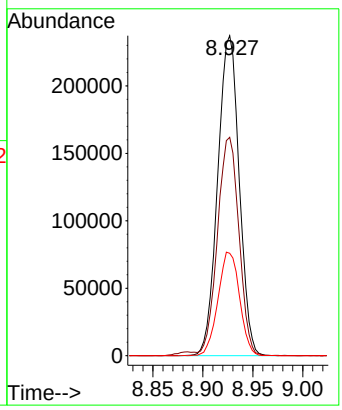


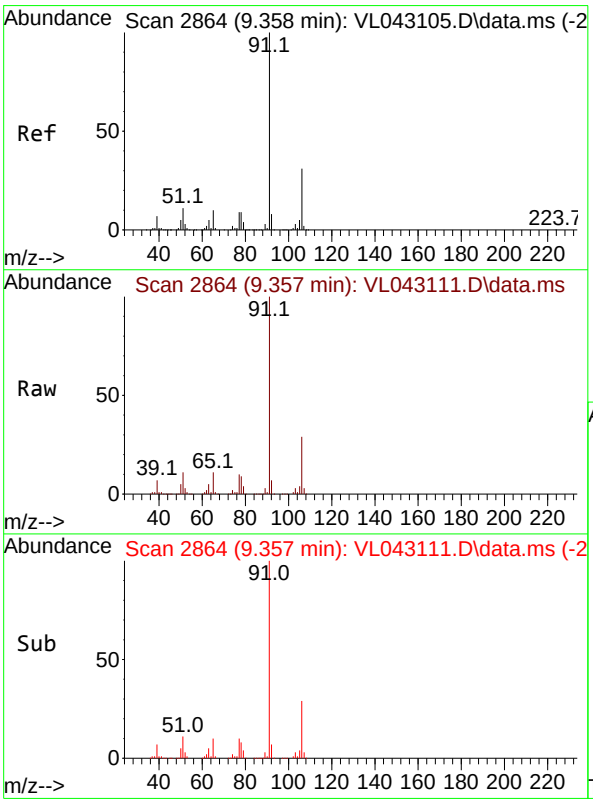
#57
Chlorobenzene
Concen: 12.983 ppbv
RT: 8.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:112 Resp: 355301

Ion	Ratio	Lower	Upper
112	100		
77	68.2	53.3	79.9
114	32.0	29.3	35.8

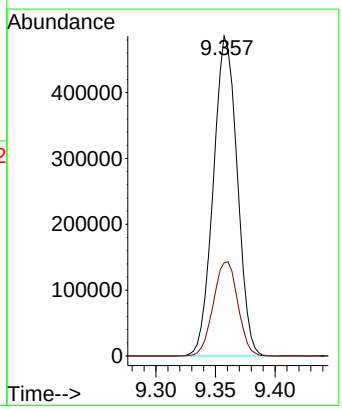


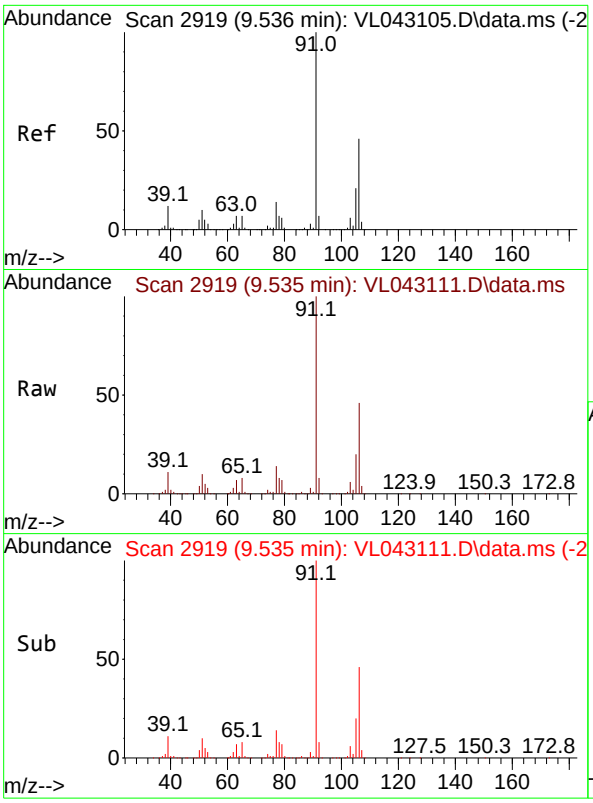


#58
Ethyl Benzene
Concen: 13.375 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 676918

Ion	Ratio	Lower	Upper
91	100		
106	29.1	24.8	37.2



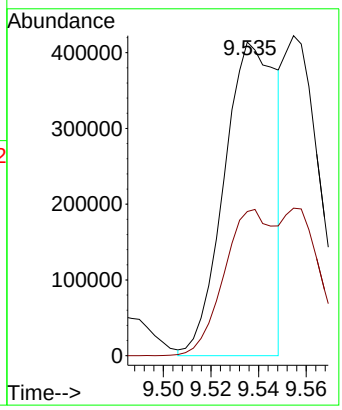


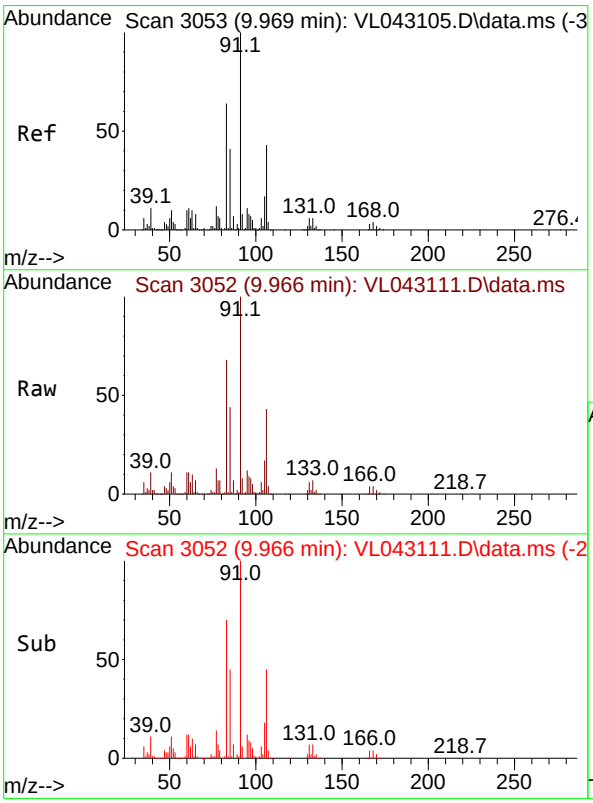
#59
m/p-Xylene
Concen: 15.622 ppbv
RT: 9.535 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 626074

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

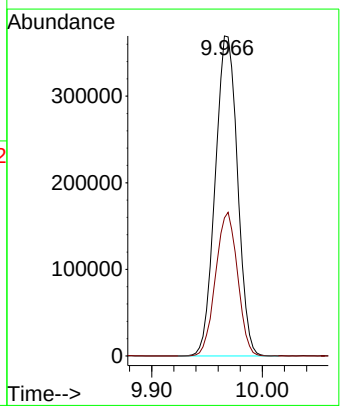


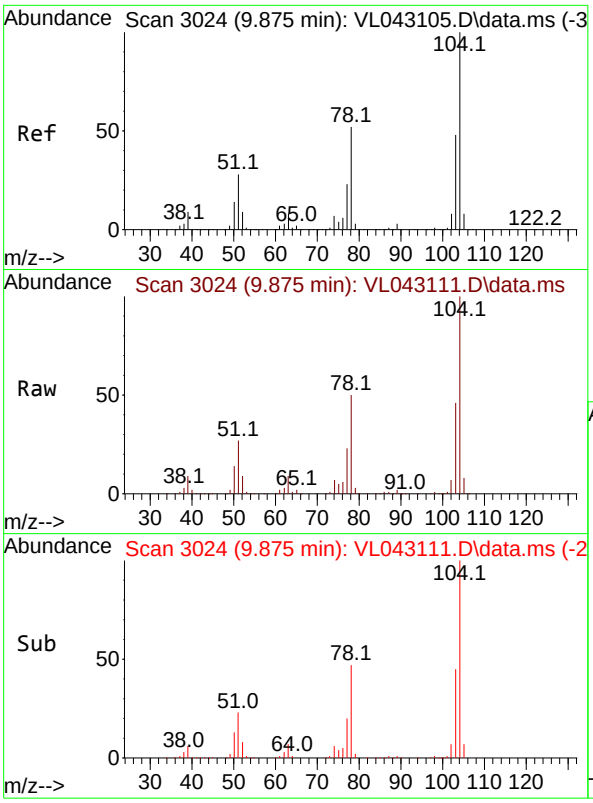


#60
o-Xylene
Concen: 13.063 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 516660

Ion	Ratio	Lower	Upper
91	100		
106	44.3	21.9	65.8



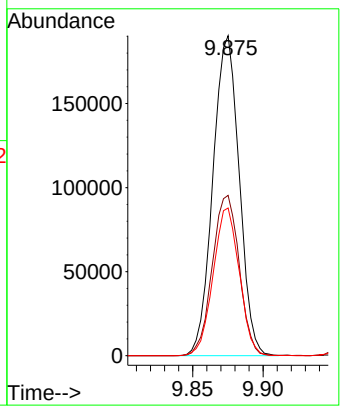


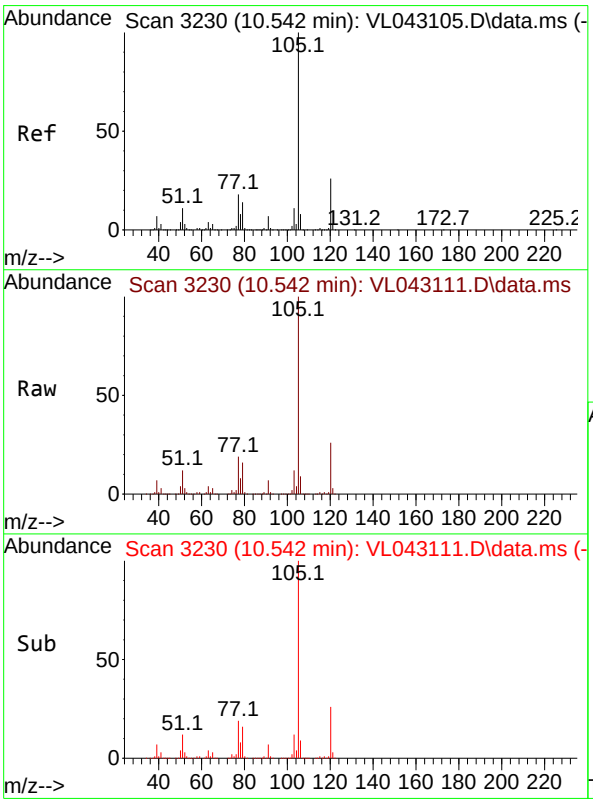
#61
Styrene
Concen: 13.867 ppbv
RT: 9.875 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:104 Resp: 247585

Ion	Ratio	Lower	Upper
104	100		
78	51.2	40.2	60.2
103	46.0	36.9	55.3

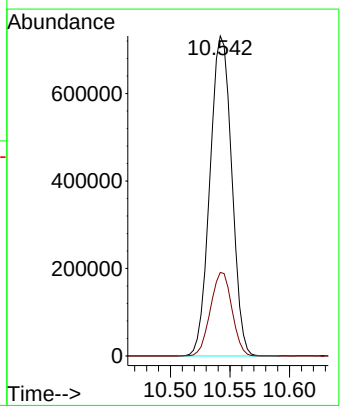


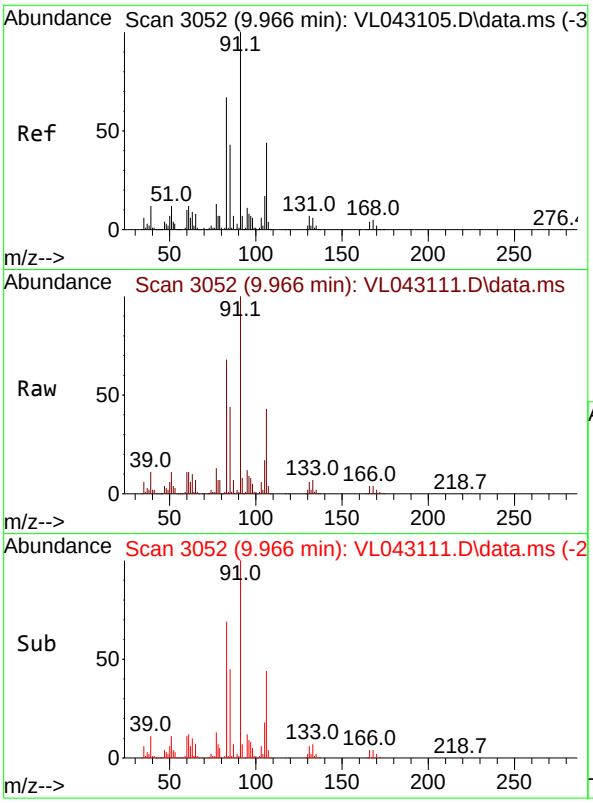


#62
Isopropylbenzene
Concen: 13.034 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 931508

Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.2	30.4



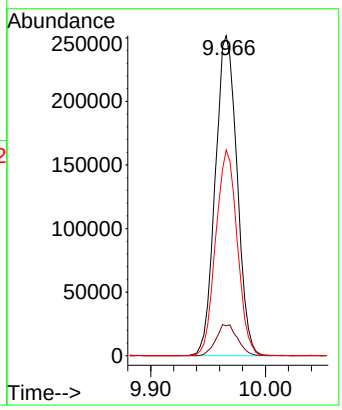


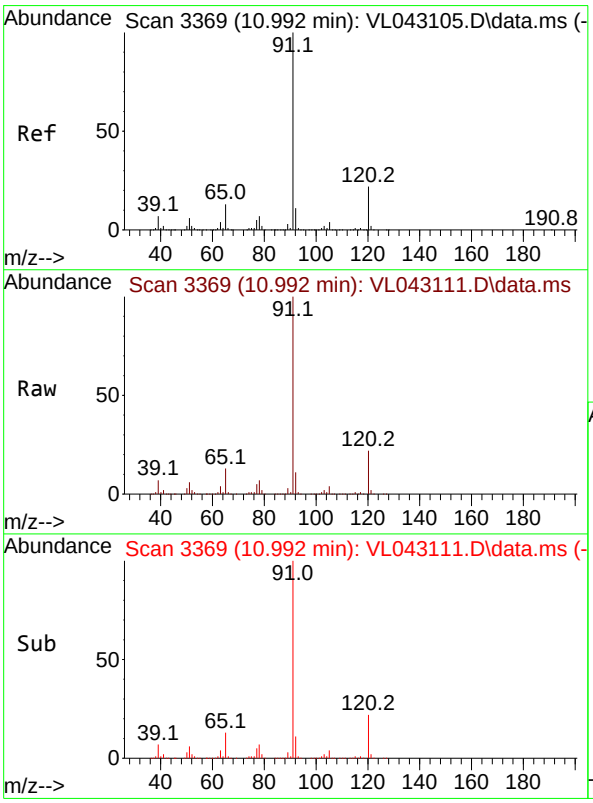
#63
1,1,2,2-Tetrachloroethane
Concen: 12.515 ppbv
RT: 9.966 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 331423

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	63.6	32.0	96.0

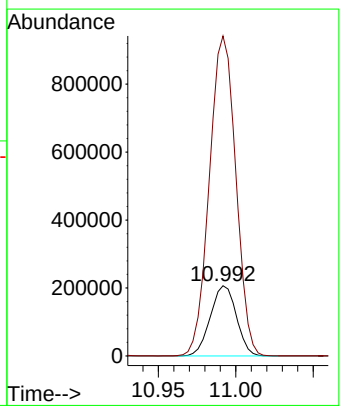


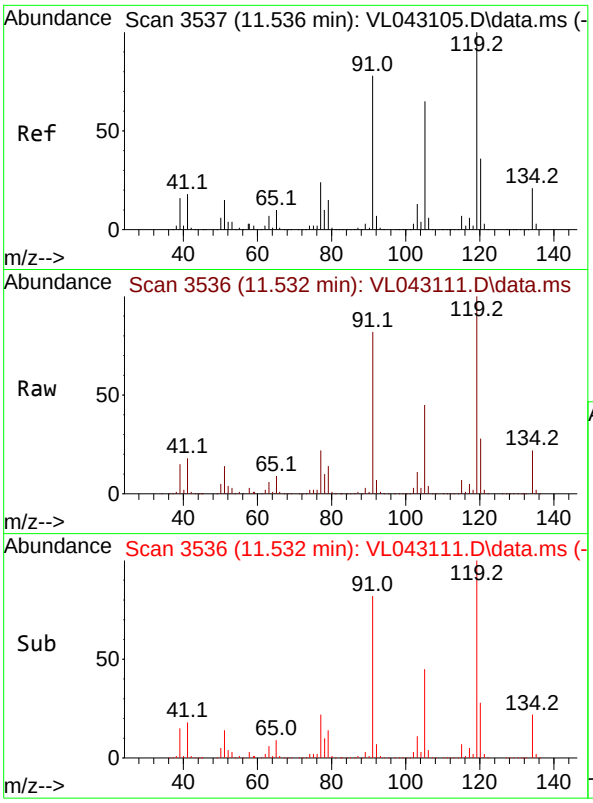


#64
n-propylbenzene
Concen: 12.775 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:120 Resp: 241719

Ion	Ratio	Lower	Upper
120	100		
91	463.5	361.6	542.4



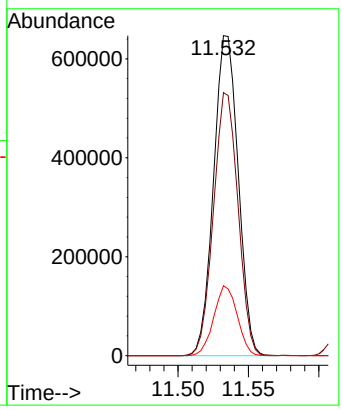


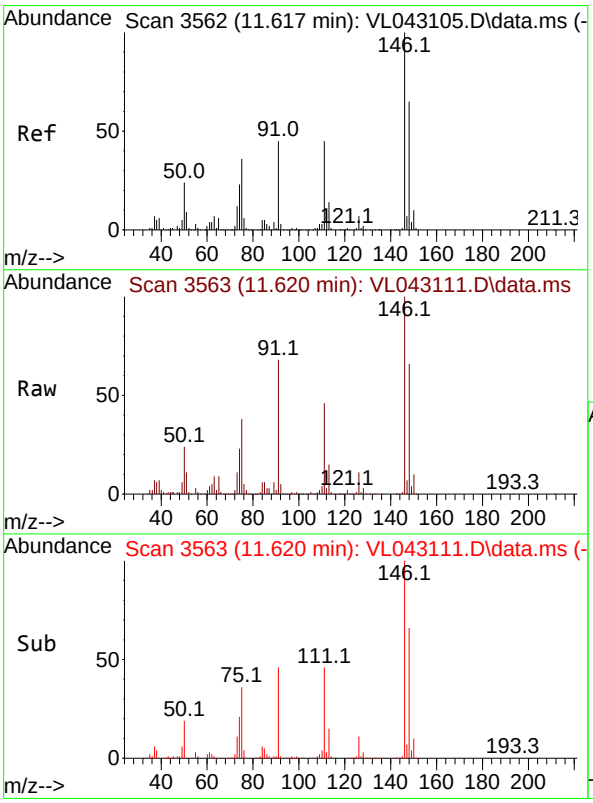
#65
tert-Butylbenzene
Concen: 12.490 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 788234

Ion	Ratio	Lower	Upper
119	100		
91	81.8	63.4	95.0
134	20.8	17.3	25.9

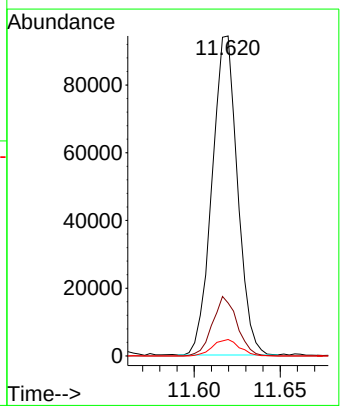


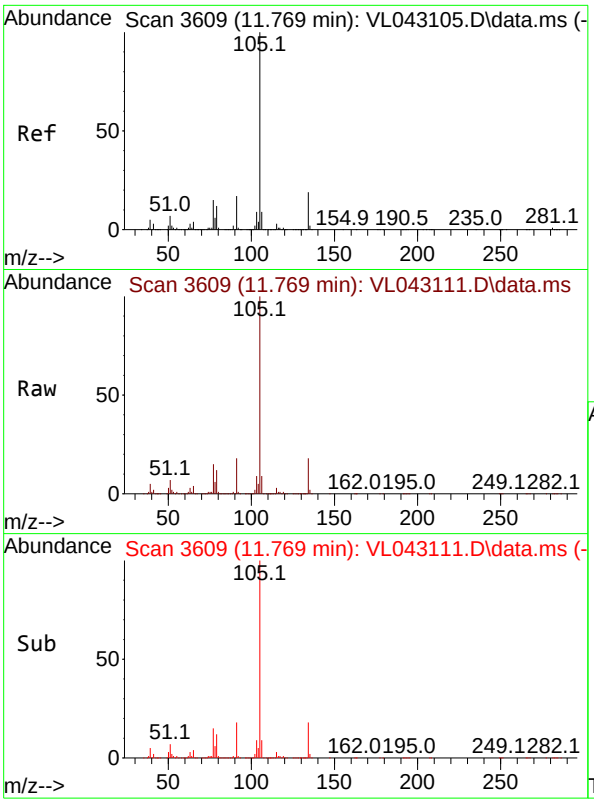


#66
Benzyl Chloride
Concen: 13.778 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 97114

Ion	Ratio	Lower	Upper
91	100		
126	18.0	14.6	22.0
128	5.4	4.6	6.8



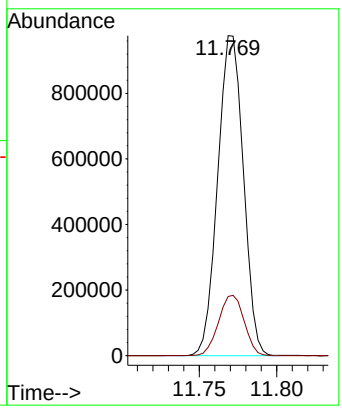


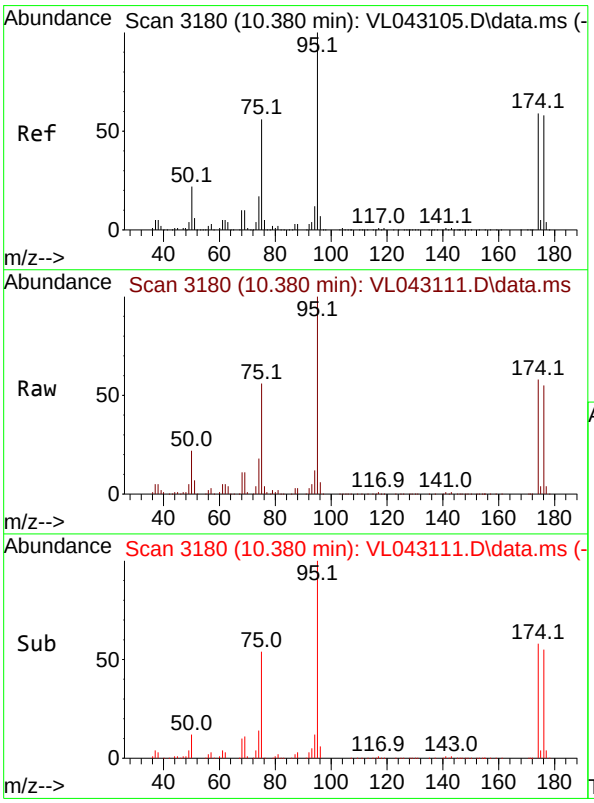
#67
sec-Butylbenzene
Concen: 12.566 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 1125489

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.5	23.3

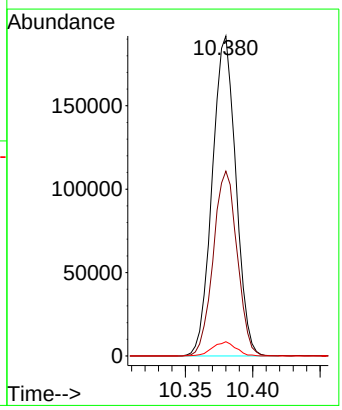


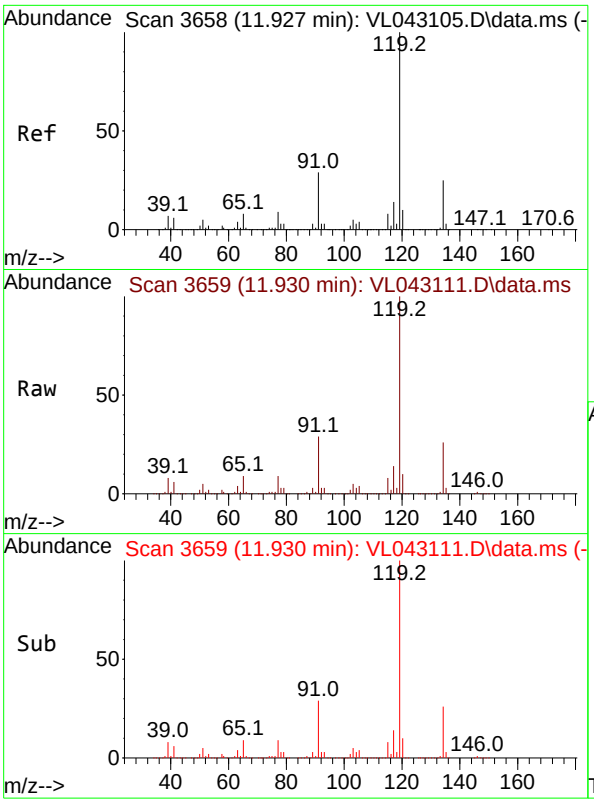


#68
1-Bromo-4-Fluorobenzene
Concen: 10.270 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 95 Resp: 233522

Ion	Ratio	Lower	Upper
95	100		
174	58.7	48.3	72.5
175	4.4	3.8	5.8



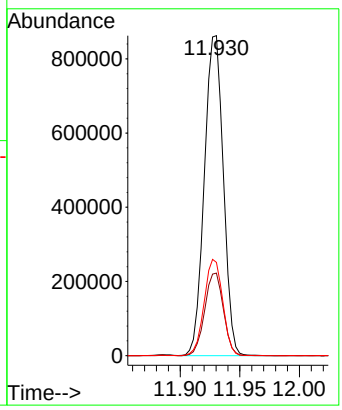


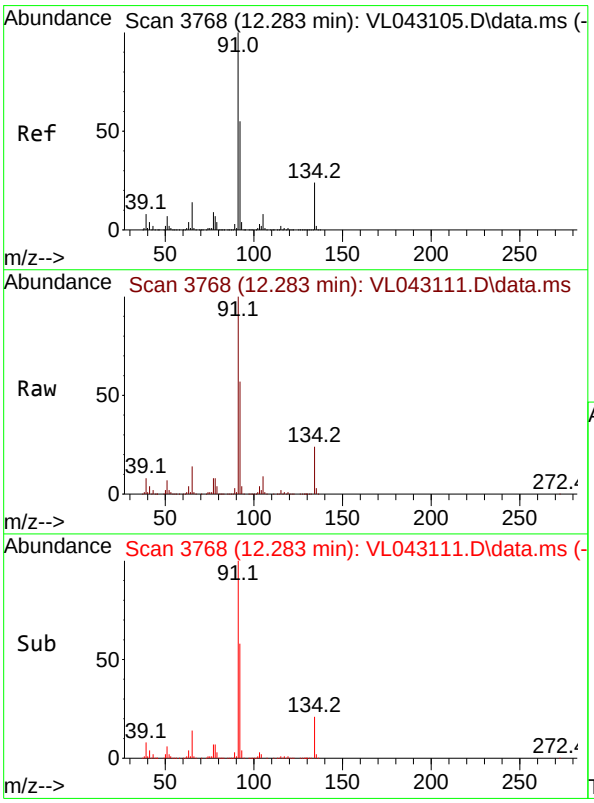
#69
p-Isopropyltoluene
Concen: 12.602 ppbv
RT: 11.930 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 959206

Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.3	30.5
91	29.5	22.6	33.8

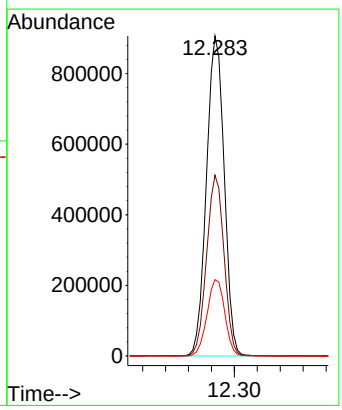


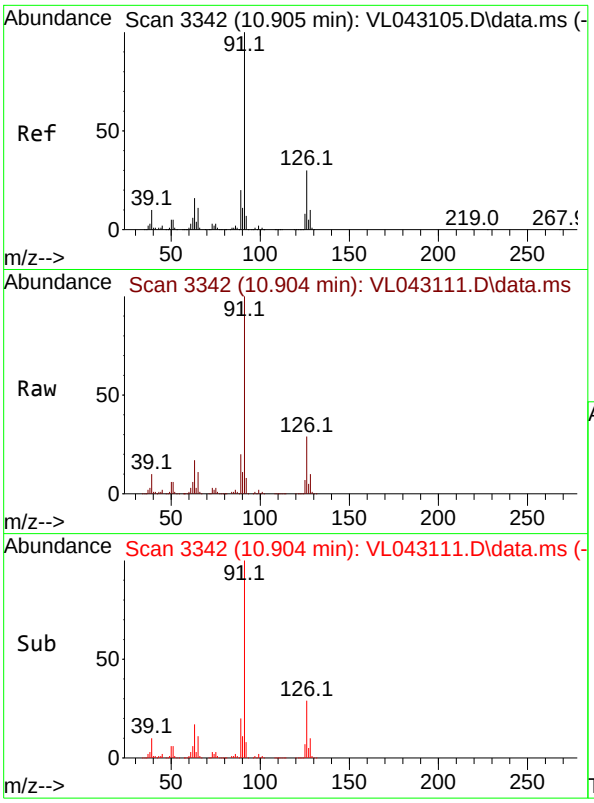


#70
n-Butylbenzene
Concen: 12.979 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 973466

Ion	Ratio	Lower	Upper
91	100		
92	55.6	44.5	66.7
134	23.8	19.3	28.9



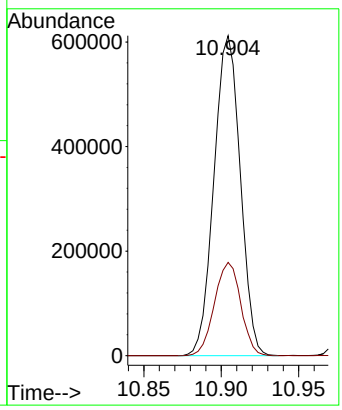


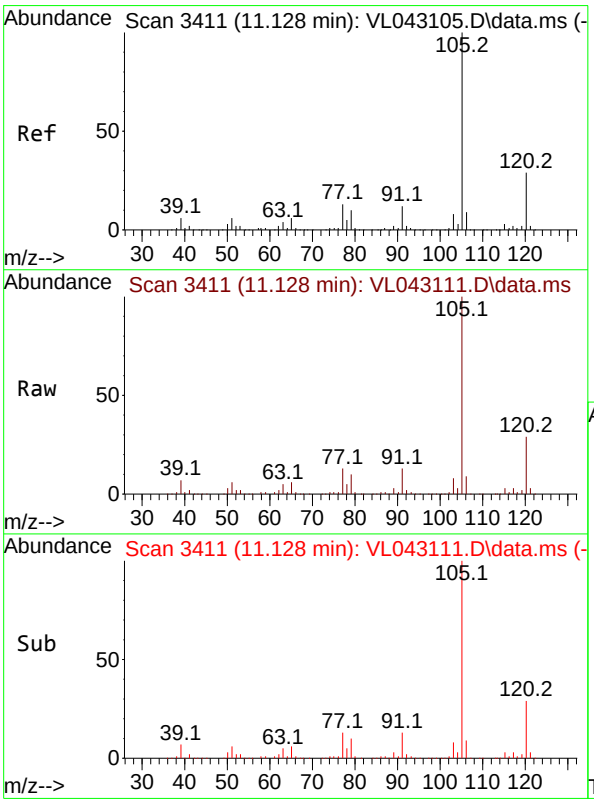
#71
2-Chlorotoluene
Concen: 13.242 ppbv
RT: 10.904 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 721827

Ion	Ratio	Lower	Upper
91	100		
126	29.1	12.0	48.0

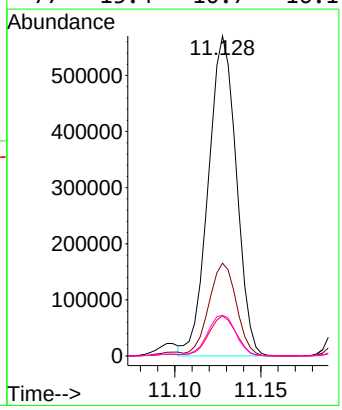


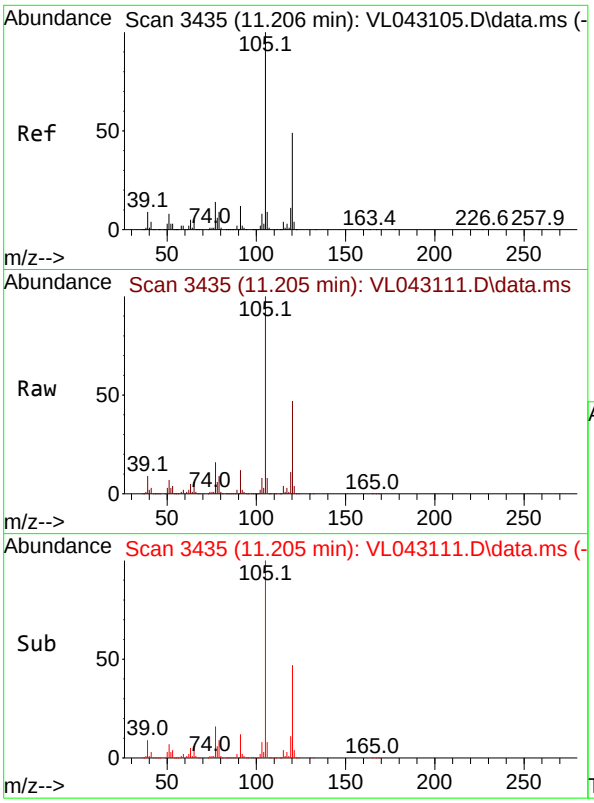


#72
4-Ethyltoluene
Concen: 13.310 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 647315

Ion	Ratio	Lower	Upper
105	100		
120	29.6	24.2	36.4
91	12.7	10.0	15.0
77	13.4	10.7	16.1



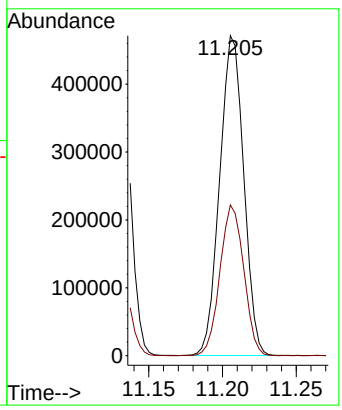


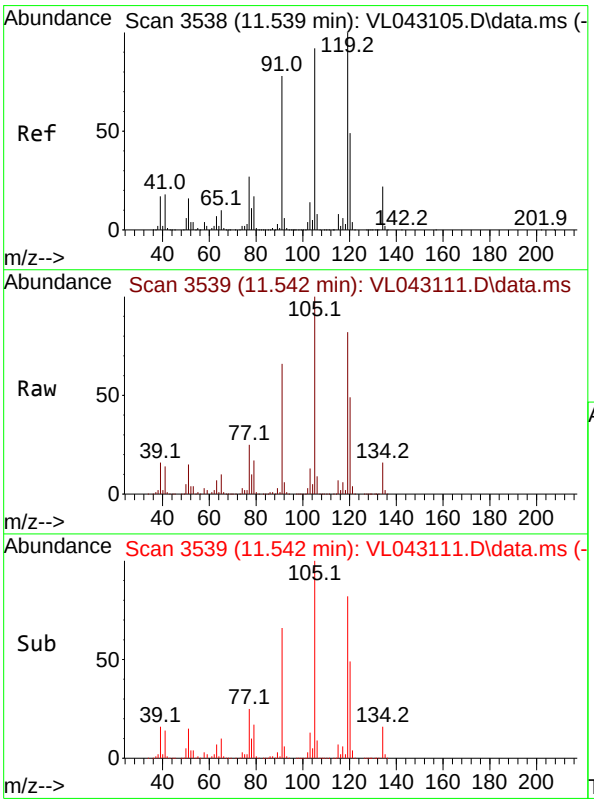
#73
1,3,5-Trimethylbenzene
Concen: 13.314 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 534006

Ion	Ratio	Lower	Upper
105	100		
120	47.1	39.0	58.6

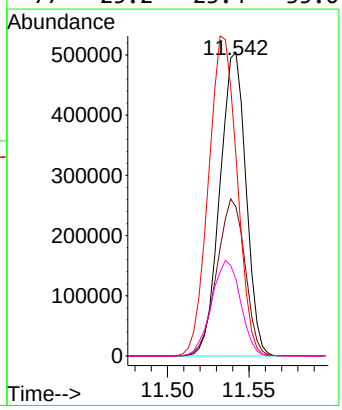


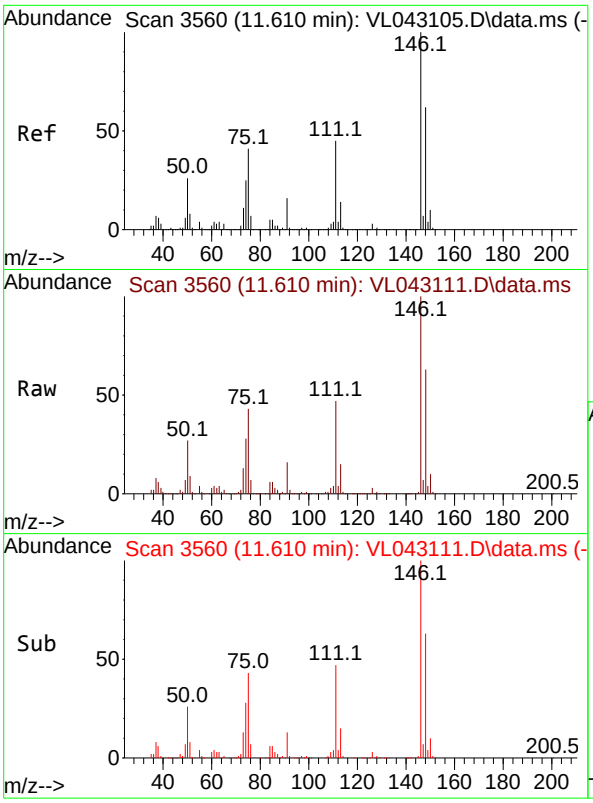


#74
1,2,4-Trimethylbenzene
Concen: 12.498 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 560932

Ion	Ratio	Lower	Upper
105	100		
120	49.0	42.8	64.2
91	66.0	68.3	102.5#
77	25.2	23.4	35.0



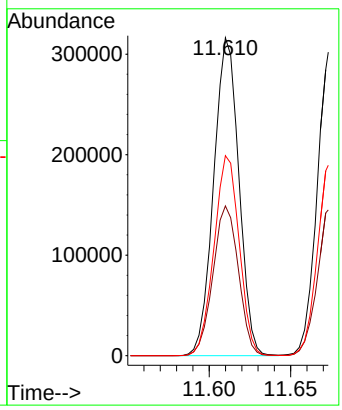


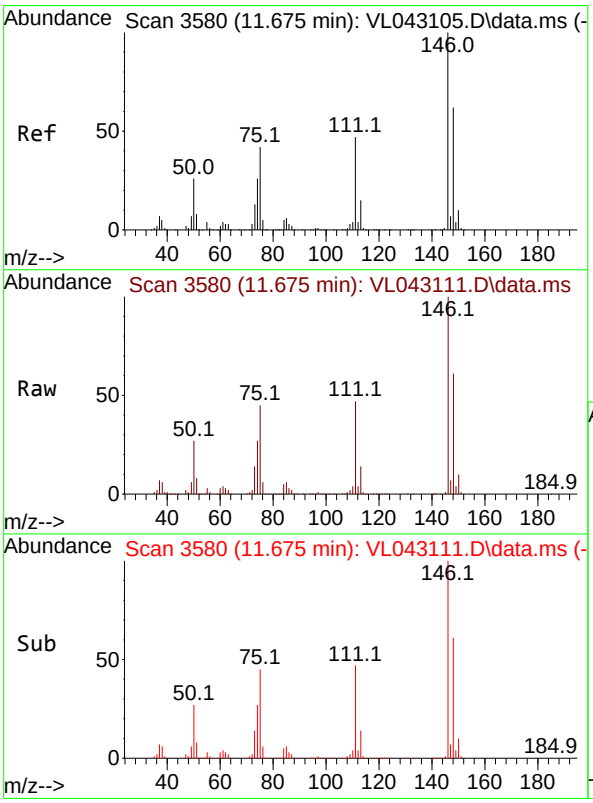
#75
1,3-Dichlorobenzene
Concen: 13.031 ppbv
RT: 11.610 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:146 Resp: 339203

Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.3	69.9
148	63.0	31.6	95.0

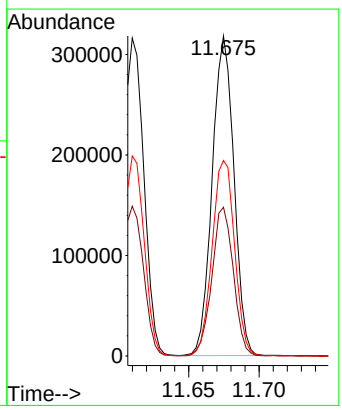


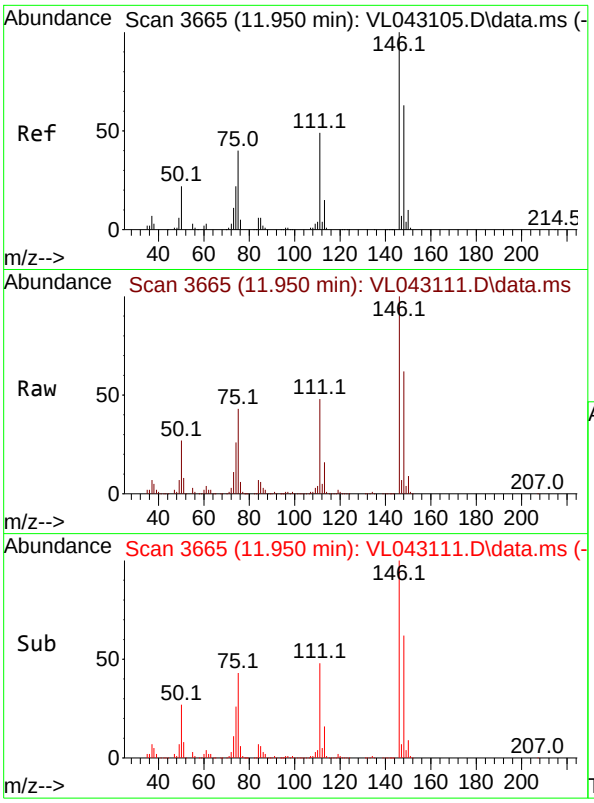


#76
1,4-Dichlorobenzene
Concen: 13.027 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:146 Resp: 341936

Ion	Ratio	Lower	Upper
146	100		
111	46.1	22.4	67.0
148	63.4	31.6	94.7



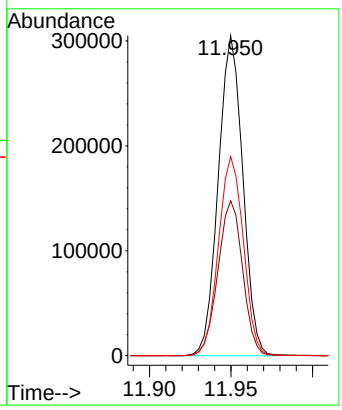


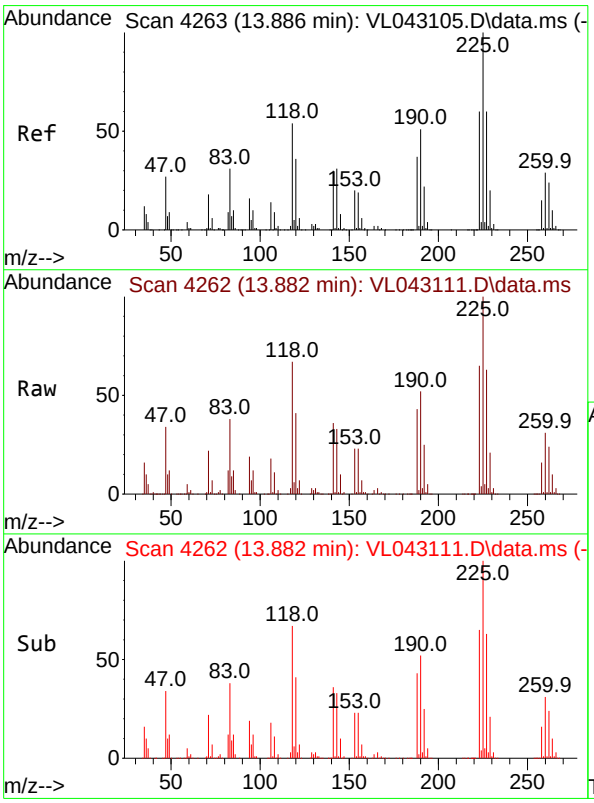
#77
1,2-Dichlorobenzene
Concen: 12.660 ppbv
RT: 11.950 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:146 Resp: 318800

Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.0	72.0
148	63.2	31.1	93.3

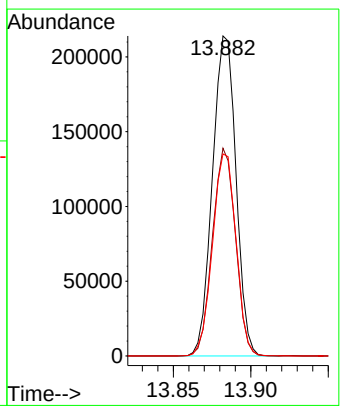


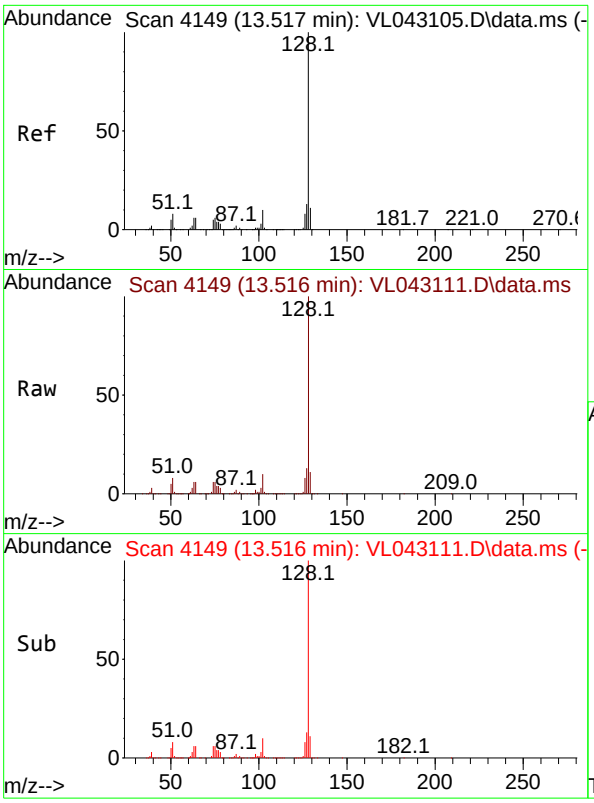


#78
Hexachloro-1,3-Butadiene
Concen: 11.606 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.004 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:225 Resp: 226294

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.2	75.4
227	63.1	49.6	74.4



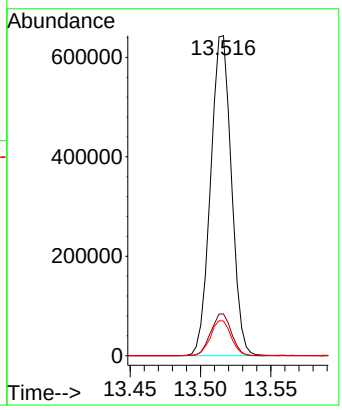


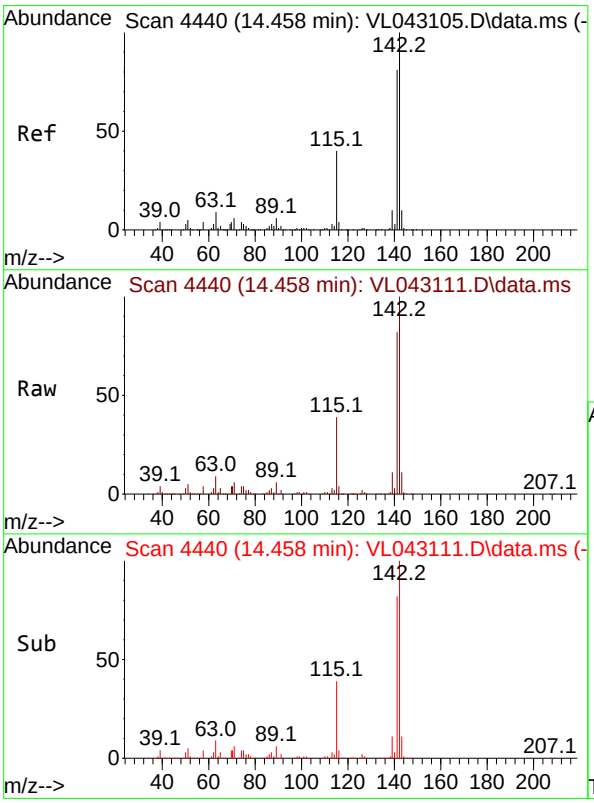
#79
Naphthalene
Concen: 14.260 ppbv
RT: 13.516 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:128 Resp: 661098

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.8	9.1	13.7

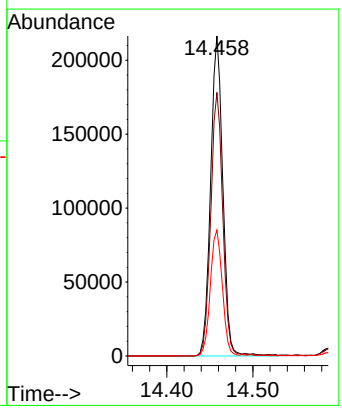


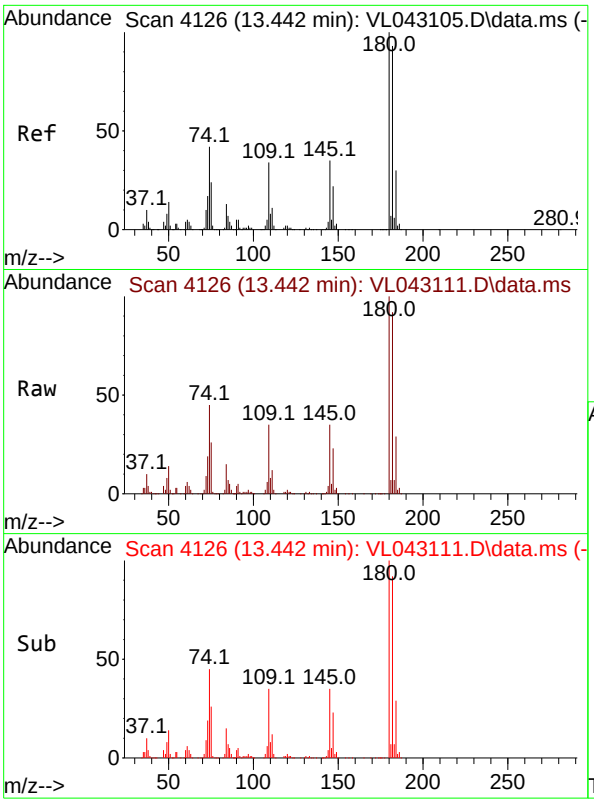


#80
Naphthalene,2-methyl-
Concen: 17.384 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Tgt Ion:142 Resp: 212784

Ion	Ratio	Lower	Upper
142	100		
141	81.9	64.6	97.0
115	39.4	30.2	45.4



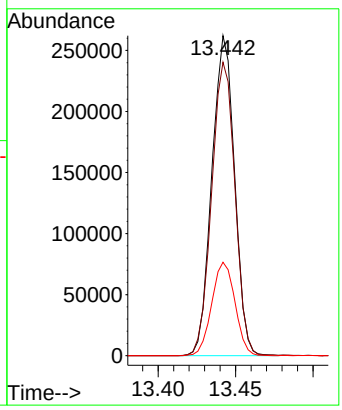


#81
1,2,4-Trichlorobenzene
Concen: 13.698 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043111.D
Acq: 14 Oct 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:180 Resp: 266712

Ion	Ratio	Lower	Upper
180	100		
182	94.2	75.5	113.3
184	30.0	23.9	35.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043112.D
Acq On : 14 Oct 2025 14:51
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	97563	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	325610	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	291676	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	229010	10.101	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	130726	9.425	ppbv	98
3) Chlorodifluoromethane	1.479	51	138956	9.260	ppbv	99
4) Chloromethane	1.538	50	48722	8.867	ppbv	96
5) Vinyl Chloride	1.583	62	47005	8.722	ppbv	97
6) Bromomethane	1.670	94	26304	8.901	ppbv	98
7) Chloroethane	1.709	64	19138	8.685	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	107147	9.558	ppbv	99
9) Propene	1.486	41	59287	8.908	ppbv	98
10) Heptane	4.991	43	165341	8.629	ppbv	99
11) Trichlorofluoromethane	1.881	101	132447	9.762	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	102449	9.380	ppbv	98
13) Ethanol	1.725	45	16837	6.839	ppbv	96
14) Bromoethene	1.787	108	37835	9.324	ppbv	100
15) Acetone	1.839	43	108010	8.214	ppbv	99
16) 1,3-Butadiene	1.612	39	55493	8.855	ppbv	98
17) tert-Butyl alcohol	2.043	59	162672	9.012	ppbv	97
18) 1,1-Dichloroethene	2.039	96	46544	9.774	ppbv	93
19) Isopropyl Alcohol	1.887	45	67552	8.248	ppbv	97
20) Methylene Chloride	2.065	84	40319	7.757	ppbv	89
21) Allyl Chloride	2.101	41	88965	9.181	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	51295	9.011	ppbv	93
23) Vinyl Acetate	2.467	43	185329	9.621	ppbv	98
24) 1,1-Dichloroethane	2.415	63	102877	9.355	ppbv	98
25) Ethyl Acetate	2.839	43	292399	8.966	ppbv	100
26) Hexane	2.832	57	135463	9.015	ppbv	97
27) Carbon Disulfide	2.156	76	131064	9.520	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	67260	9.839	ppbv	97
29) Chloroform	2.852	83	204925	9.412	ppbv	95
30) Cyclohexane	3.865	84	119287	9.096	ppbv	96
31) cis-1,2-Dichloroethene	2.725	61	137462	9.580	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	219167	9.666	ppbv	98
34) 2-Butanone	2.560	43	188755	8.624	ppbv	99
35) Carbon Tetrachloride	3.771	117	217678	9.298	ppbv	96
36) Benzene	3.664	78	278365	9.077	ppbv	97
37) 1,2-Dichloroethane	3.224	62	161750	9.156	ppbv	98
38) Trichloroethene	4.557	130	108261	8.453	ppbv	96
39) 1,2-Dichloropropane	4.321	63	100580	8.971	ppbv	96
40) 1,4-Dioxane	4.587	88	41464	8.265	ppbv #	95
41) Tetrahydrofuran	3.056	42	104701	8.553	ppbv	99
42) Bromodichloromethane	4.496	83	228288	9.336	ppbv	96
43) Methyl Methacrylate	4.884	69	138593	8.898	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	452117	8.738	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	142964	9.146	ppbv	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043112.D
Acq On : 14 Oct 2025 14:51
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

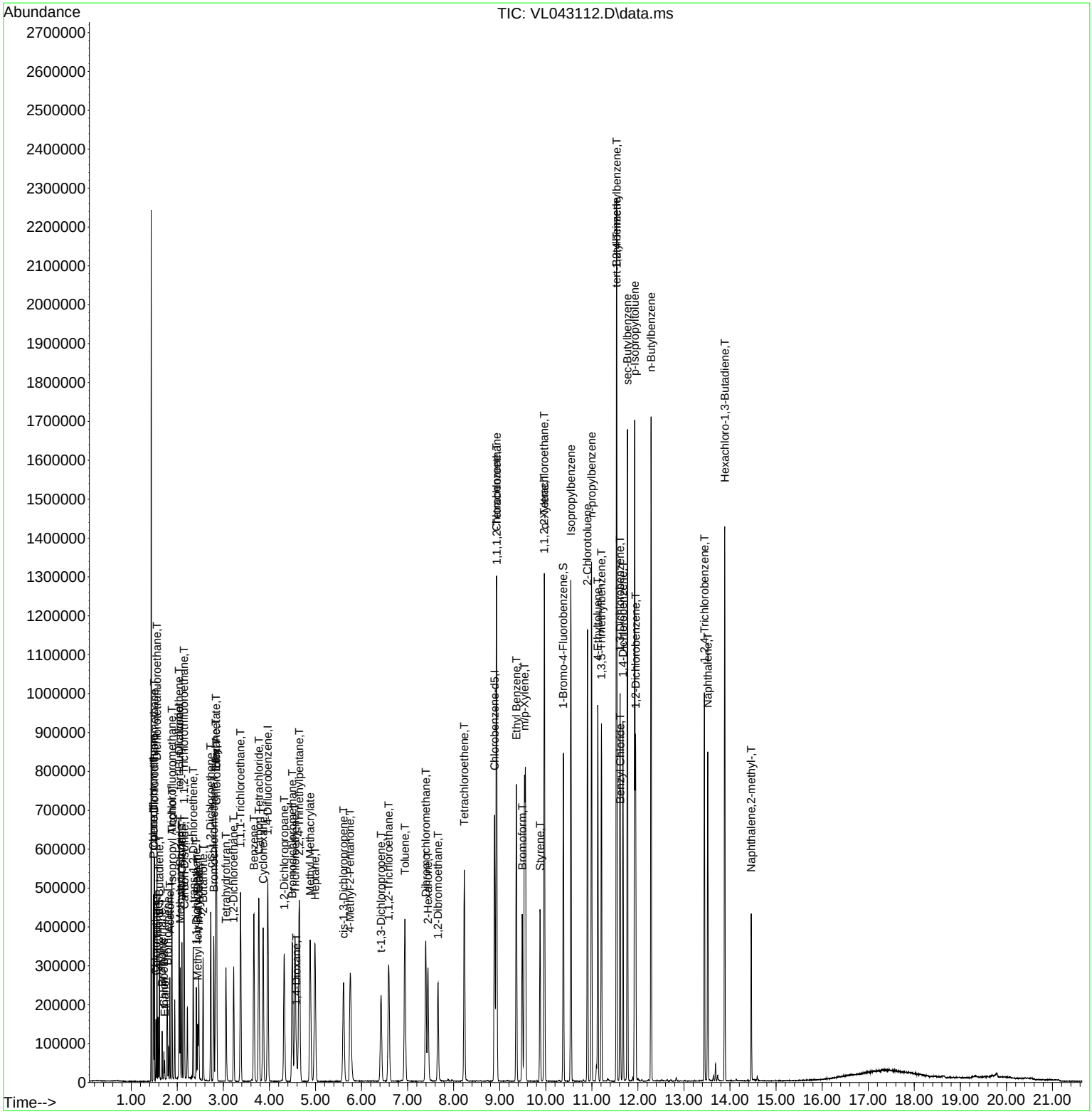
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	170038	9.106	ppbv		95
47) 1,1,2-Trichloroethane	6.590	97	108965	9.000	ppbv		96
48) Dibromochloromethane	7.396	129	184757	9.127	ppbv		100
49) Bromoform	9.490	173	147759	8.980	ppbv		100
50) 4-Methyl-2-Pentanone	5.752	43	263070	8.709	ppbv		100
51) 2-Hexanone	7.441	43	203876	8.999	ppbv	#	99
52) Tetrachloroethene	8.231	164	96000	8.681	ppbv		97
53) Toluene	6.943	91	324944	8.928	ppbv		100
54) 1,2-Dibromoethane	7.661	107	167936	8.856	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.933	131	166059	9.031	ppbv		98
57) Chlorobenzene	8.930	112	239309	8.770	ppbv		99
58) Ethyl Benzene	9.361	91	450029	8.990	ppbv		99
59) m/p-Xylene	9.539	91	392158	9.822	ppbv	#	29
60) o-Xylene	9.969	91	348346	8.834	ppbv		100
61) Styrene	9.878	104	161979	9.099	ppbv		98
62) Isopropylbenzene	10.545	105	621758	8.726	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	215911	8.177	ppbv		100
64) n-propylbenzene	10.995	120	160411	8.503	ppbv		94
65) tert-Butylbenzene	11.536	119	532570	8.464	ppbv		98
66) Benzyl Chloride	11.620	91	58169	8.306	ppbv		98
67) sec-Butylbenzene	11.772	105	762711	8.541	ppbv		98
69) p-Isopropyltoluene	11.930	119	638261	8.411	ppbv		99
70) n-Butylbenzene	12.286	91	641547	8.579	ppbv		99
71) 2-Chlorotoluene	10.904	91	479799	8.828	ppbv		99
72) 4-Ethyltoluene	11.128	105	427034	8.807	ppbv		99
73) 1,3,5-Trimethylbenzene	11.209	105	354875	8.874	ppbv		95
74) 1,2,4-Trimethylbenzene	11.542	105	372506	8.324	ppbv		92
75) 1,3-Dichlorobenzene	11.610	146	219423	8.454	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	221364	8.458	ppbv		99
77) 1,2-Dichlorobenzene	11.953	146	204178	8.132	ppbv		98
78) Hexachloro-1,3-Butadiene	13.885	225	144646	7.440	ppbv		99
79) Naphthalene	13.516	128	389814	8.334	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	123632	10.146	ppbv		97
81) 1,2,4-Trichlorobenzene	13.445	180	162553	8.373	ppbv		98

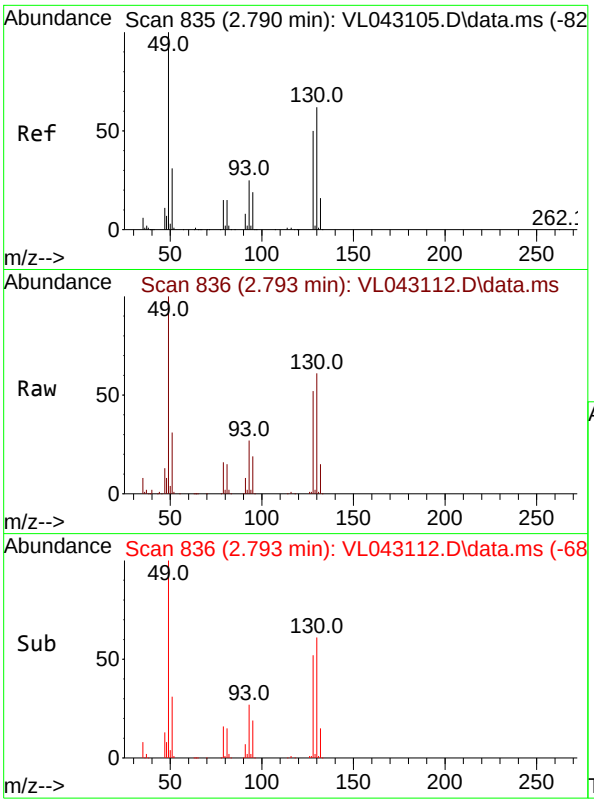
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
Data File : VL043112.D
Acq On : 14 Oct 2025 14:51
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Quant Time: Oct 15 02:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



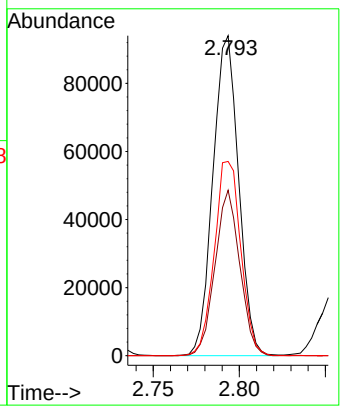


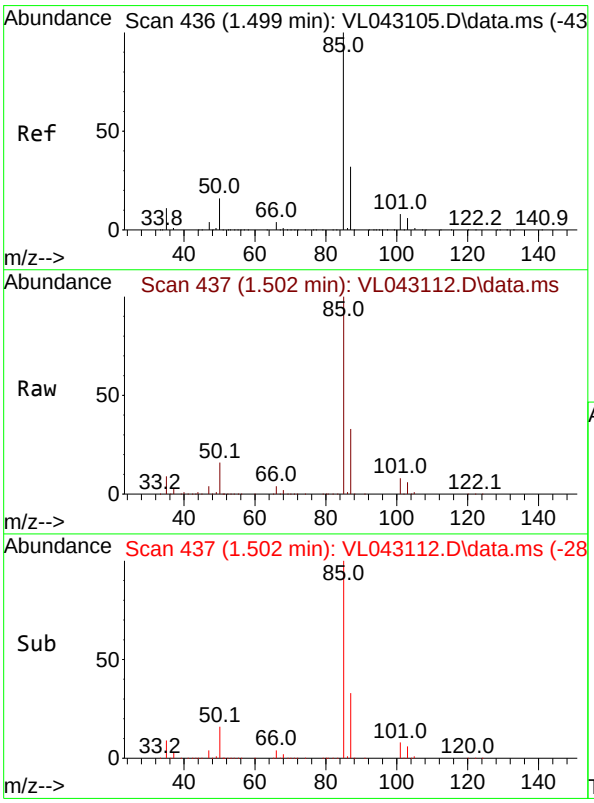
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 49 Resp: 97563

Ion	Ratio	Lower	Upper
49	100		
128	50.0	24.4	73.4
130	62.8	31.0	93.0

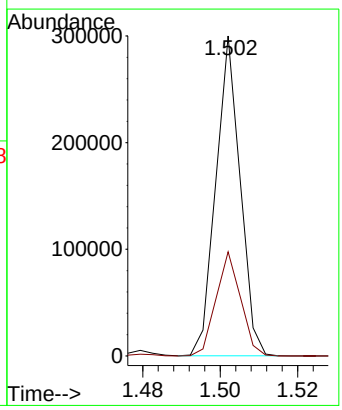


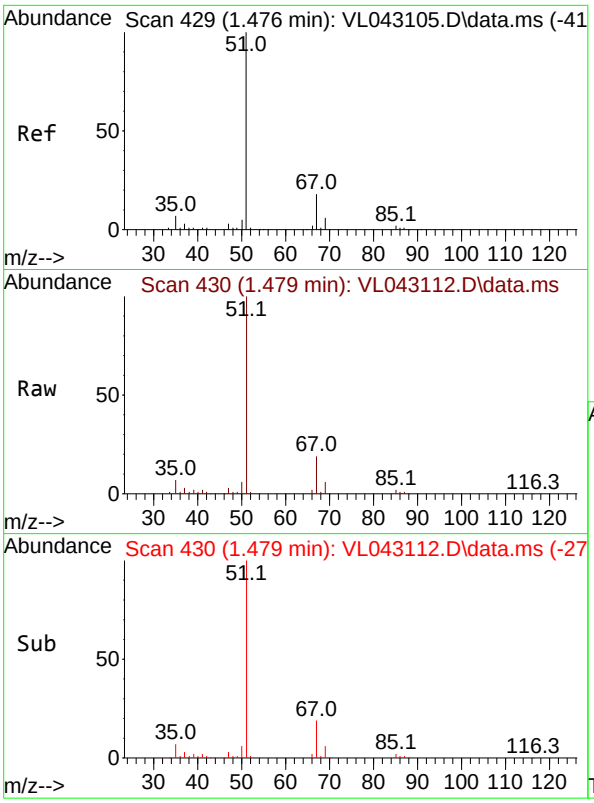


#2
Dichlorodifluoromethane
Concen: 9.425 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 130726

Ion	Ratio	Lower	Upper
85	100		
87	32.6	25.3	37.9



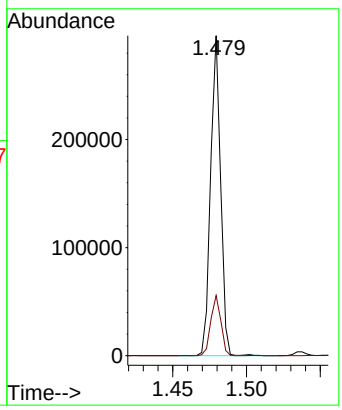


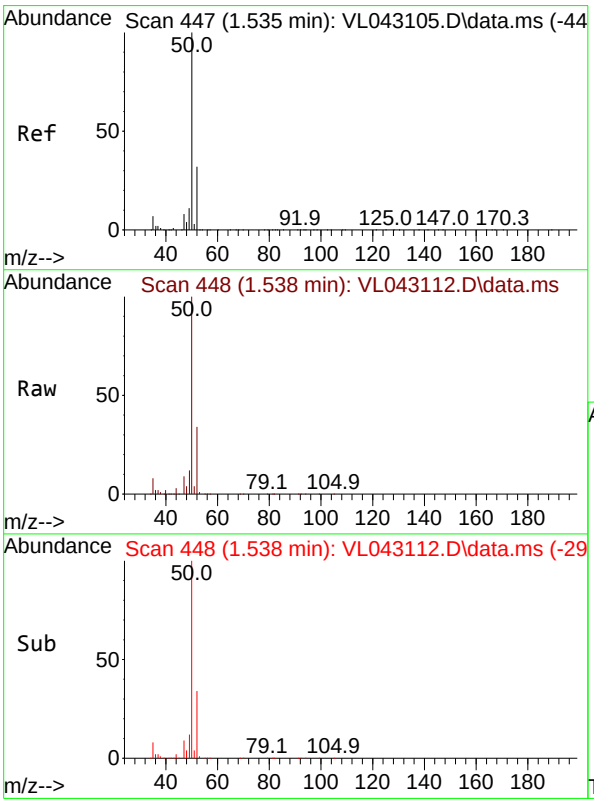
#3
Chlorodifluoromethane
Concen: 9.260 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 51 Resp: 138956

Ion	Ratio	Lower	Upper
51	100		
67	19.1	15.1	22.7

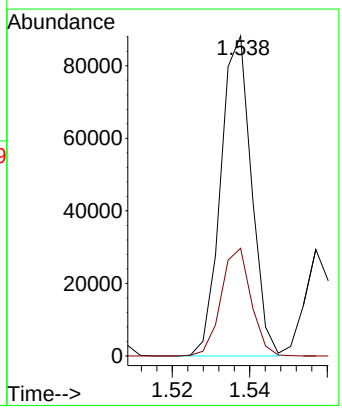


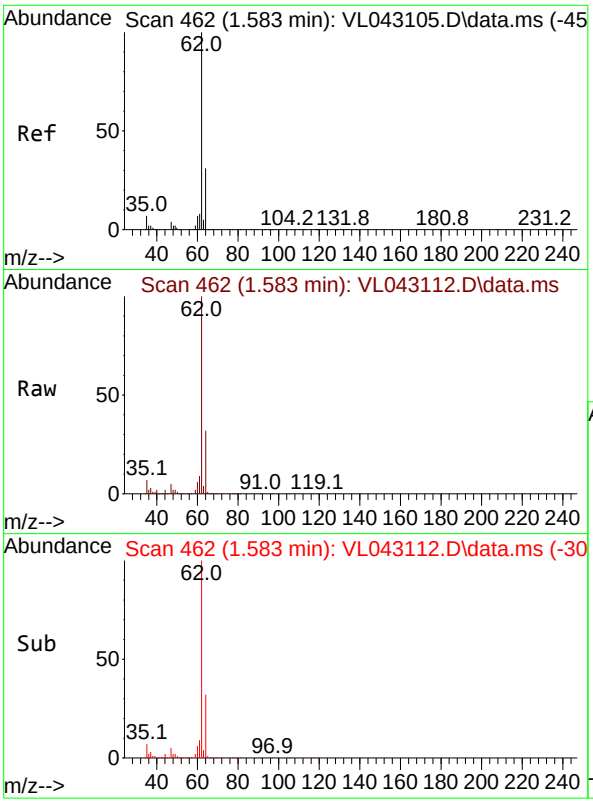


#4
Chloromethane
Concen: 8.867 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 50 Resp: 48722

Ion	Ratio	Lower	Upper
50	100		
52	33.4	25.2	37.8



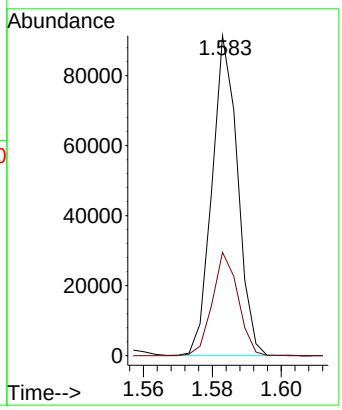


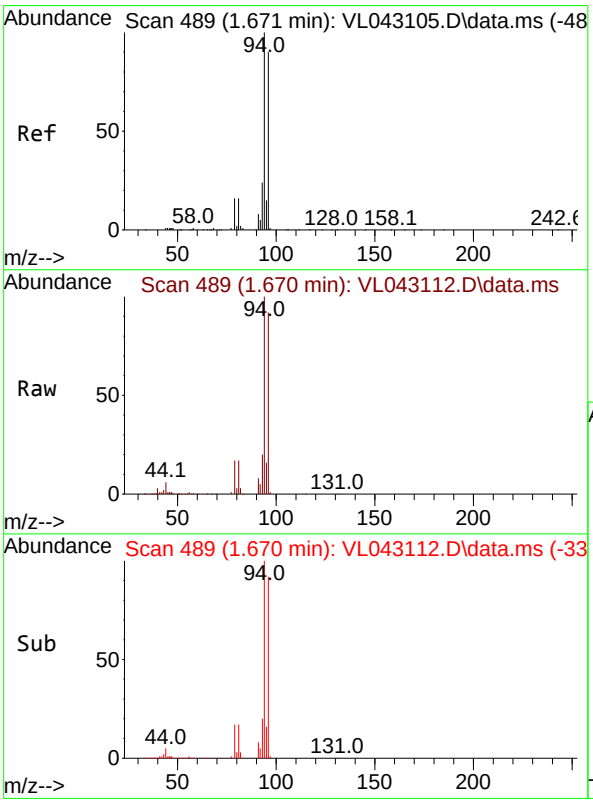
#5
Vinyl Chloride
Concen: 8.722 ppbv
RT: 1.583 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 62 Resp: 47005

Ion	Ratio	Lower	Upper
62	100		
64	32.3	24.6	36.8

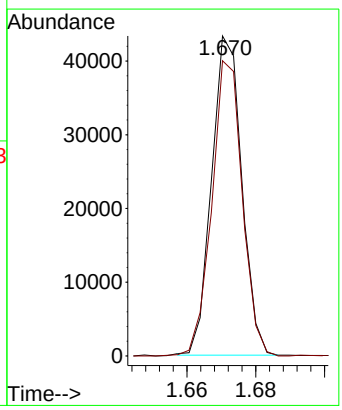


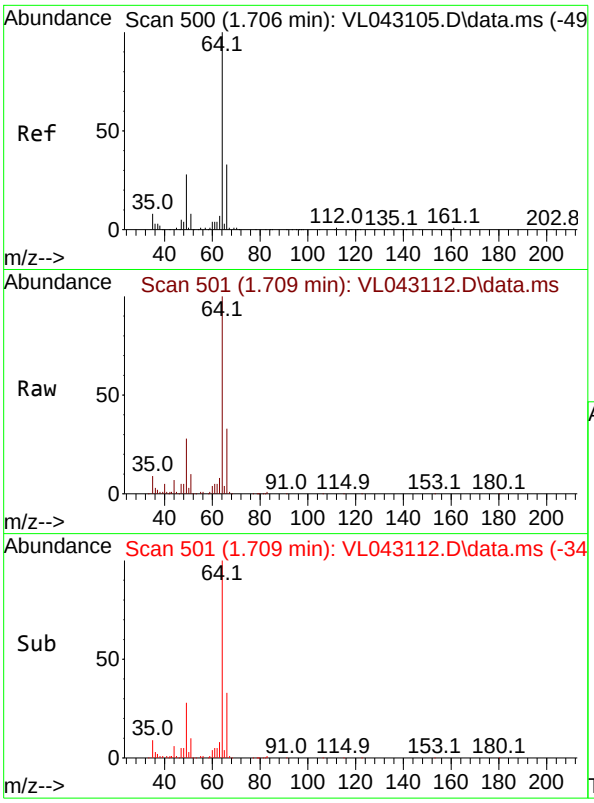


#6
Bromomethane
Concen: 8.901 ppbv
RT: 1.670 min Scan# 489
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 94 Resp: 26304

Ion	Ratio	Lower	Upper
94	100		
96	92.5	72.2	108.4



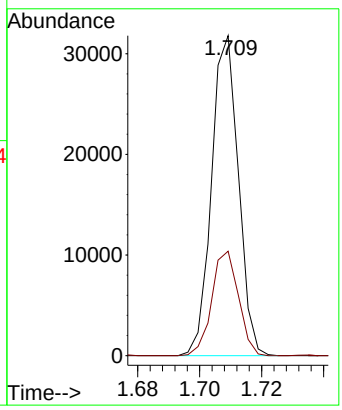


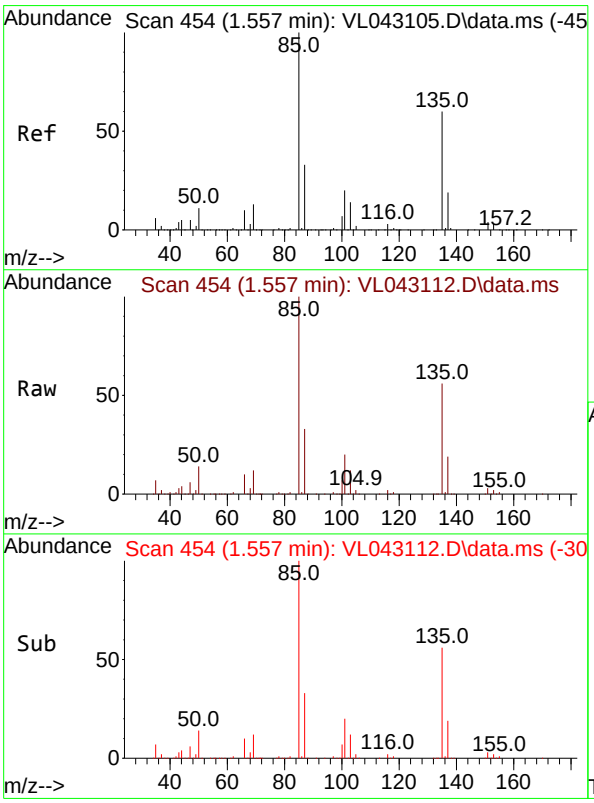
#7
Chloroethane
Concen: 8.685 ppbv
RT: 1.709 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 64 Resp: 19138

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.0	39.0

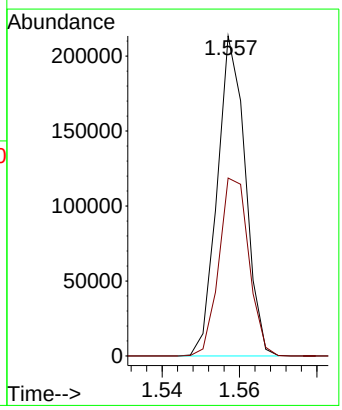


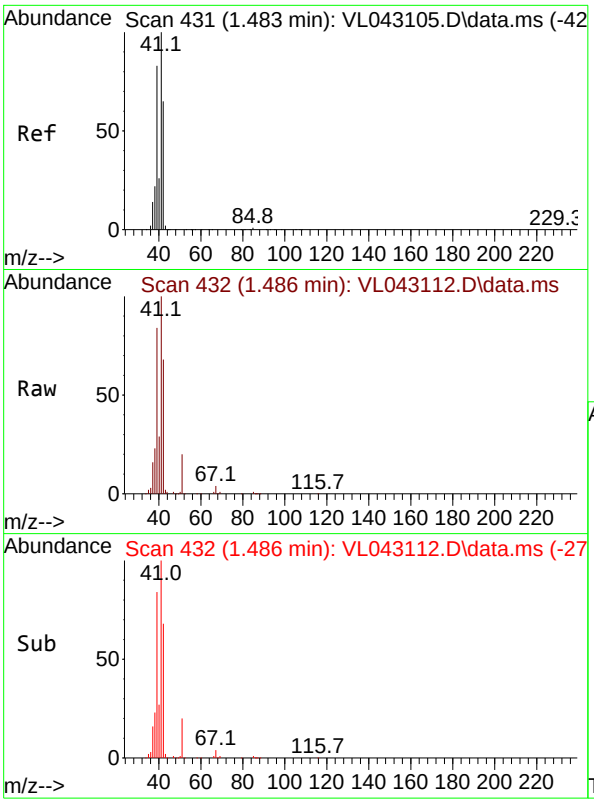


#8
Dichlorotetrafluoroethane
Concen: 9.558 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 107147

Ion	Ratio	Lower	Upper
85	100		
135	59.5	48.2	72.4



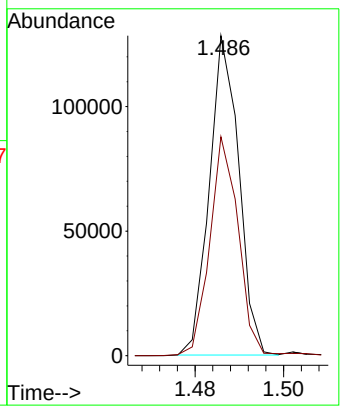


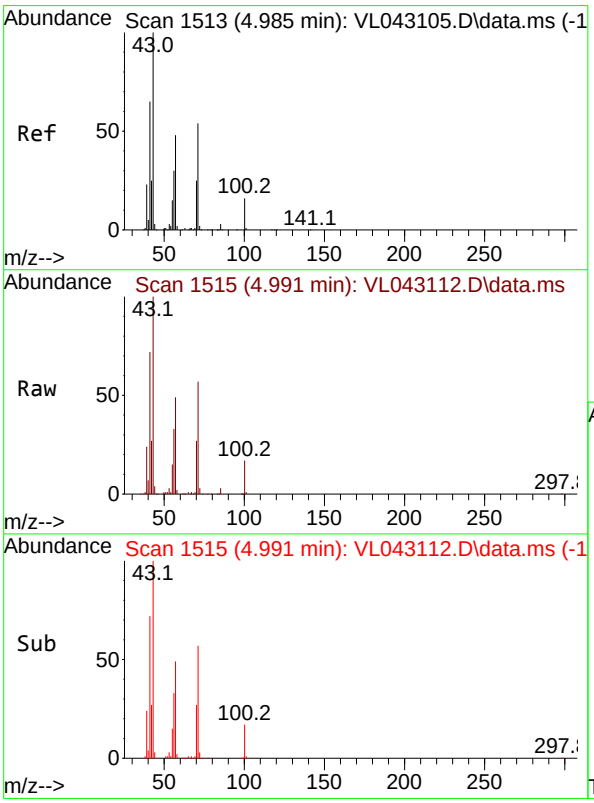
#9
Propene
Concen: 8.908 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 41 Resp: 59287

Ion	Ratio	Lower	Upper
41	100		
42	67.3	55.1	82.7

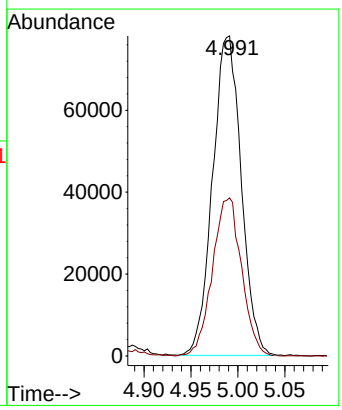


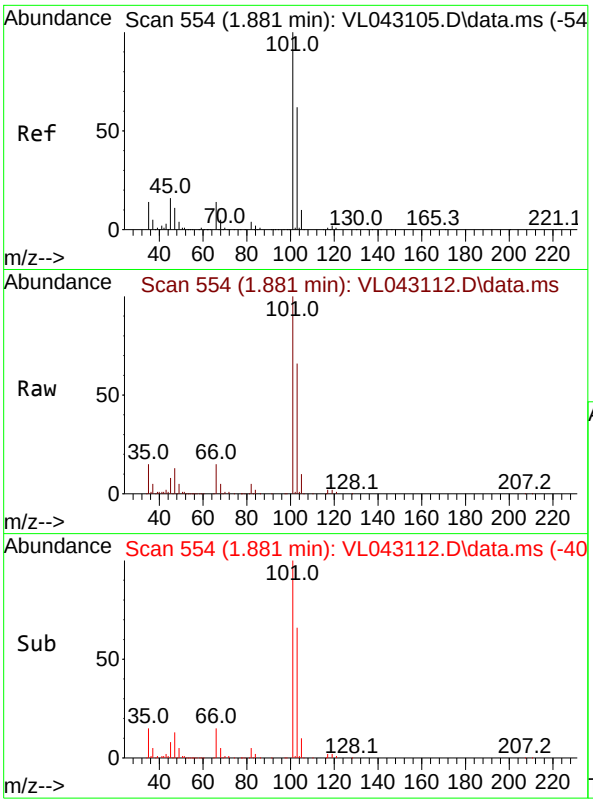


#10
Heptane
Concen: 8.629 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 165341

Ion	Ratio	Lower	Upper
43	100		
57	50.4	40.8	61.2



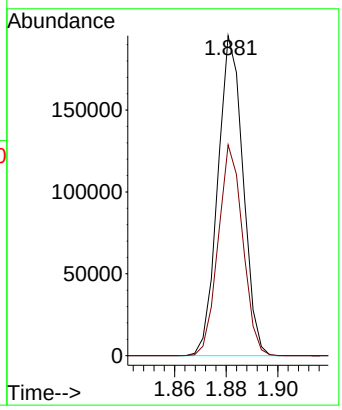


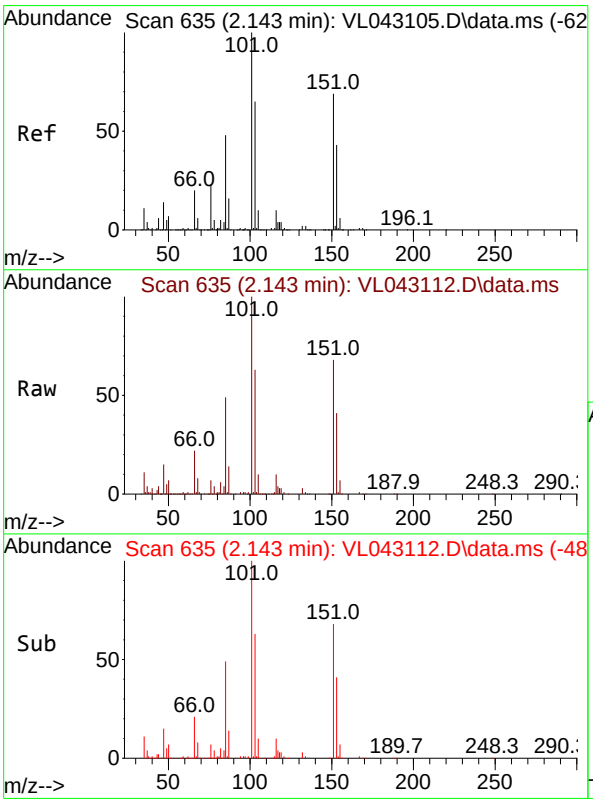
#11
Trichlorofluoromethane
Concen: 9.762 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:101 Resp: 132447

Ion	Ratio	Lower	Upper
101	100		
103	65.9	49.3	73.9

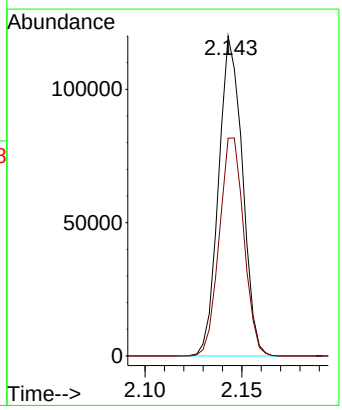


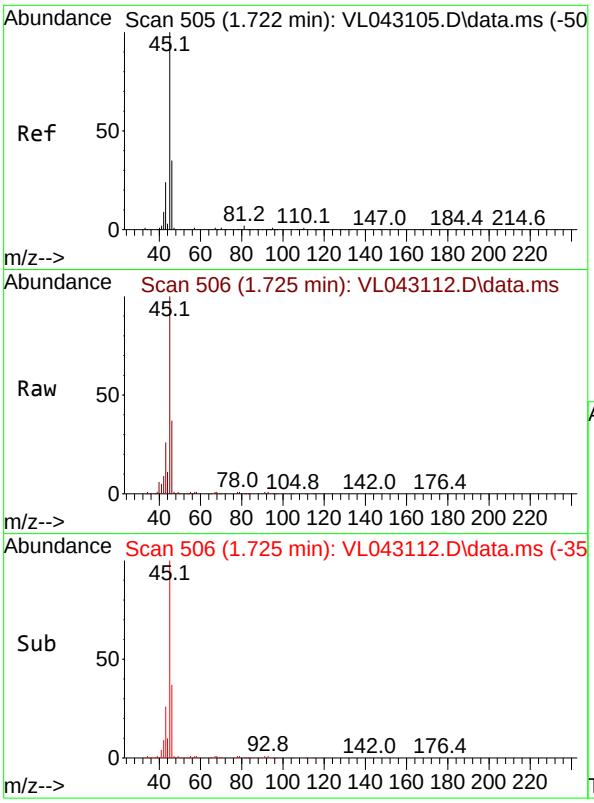


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.380 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:101 Resp: 102449

Ion	Ratio	Lower	Upper
101	100		
151	70.4	54.7	82.1



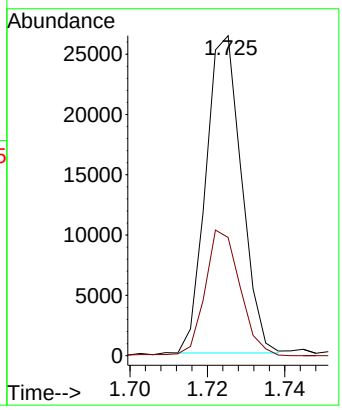


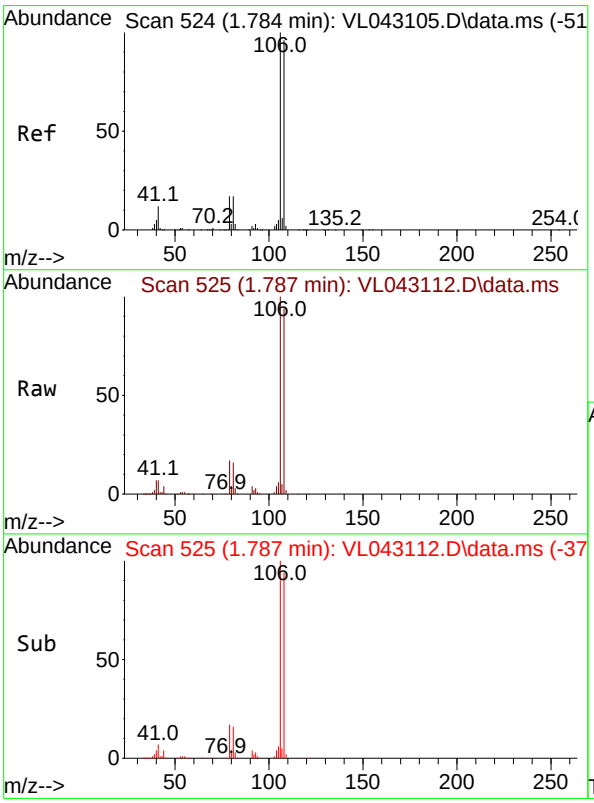
#13
Ethanol
Concen: 6.839 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 45 Resp: 16837

Ion	Ratio	Lower	Upper
45	100		
46	39.2	14.7	58.9

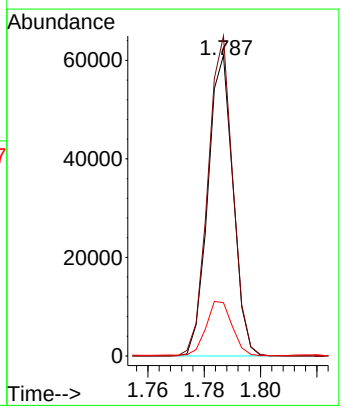


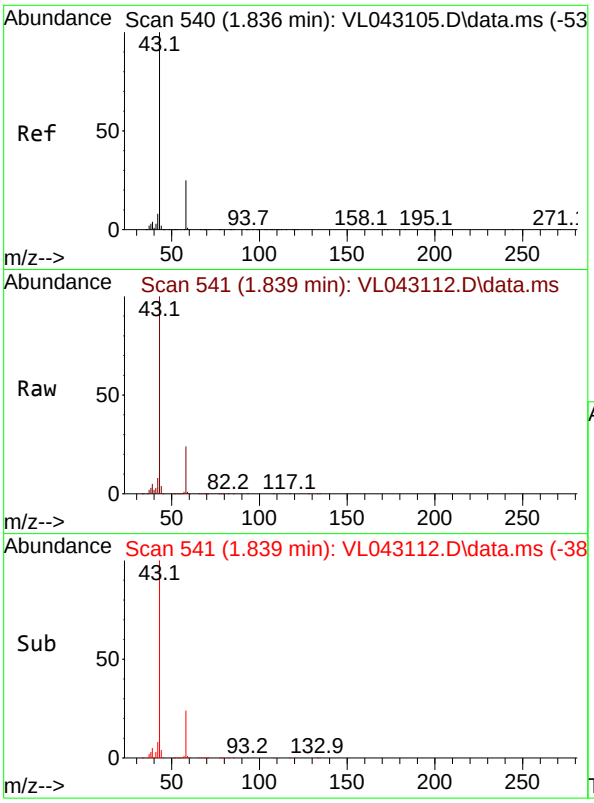


#14
Bromoethene
Concen: 9.324 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:108 Resp: 37835

Ion	Ratio	Lower	Upper
108	100		
106	105.3	84.4	126.6
79	18.7	15.3	22.9



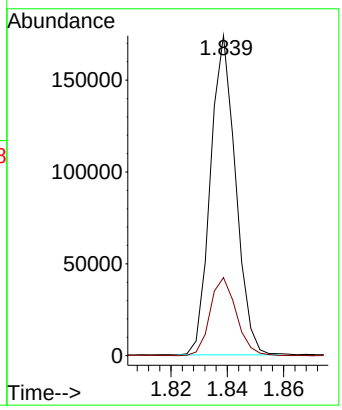


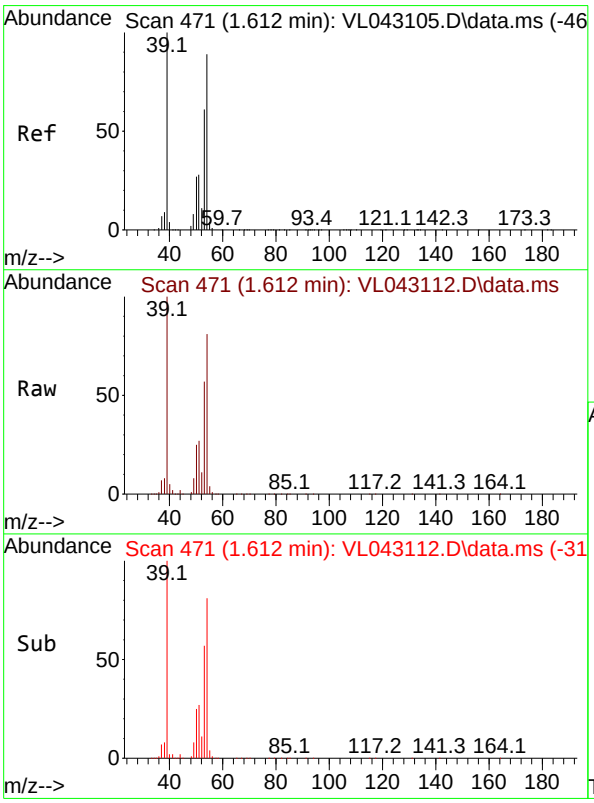
#15
Acetone
Concen: 8.214 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 43 Resp: 108010

Ion	Ratio	Lower	Upper
43	100		
58	25.7	20.8	31.2

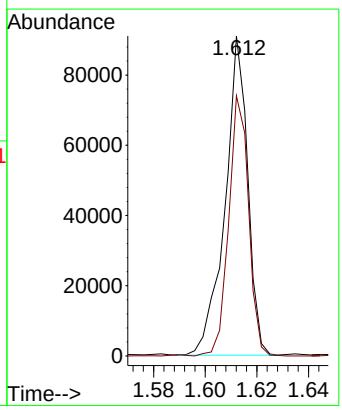


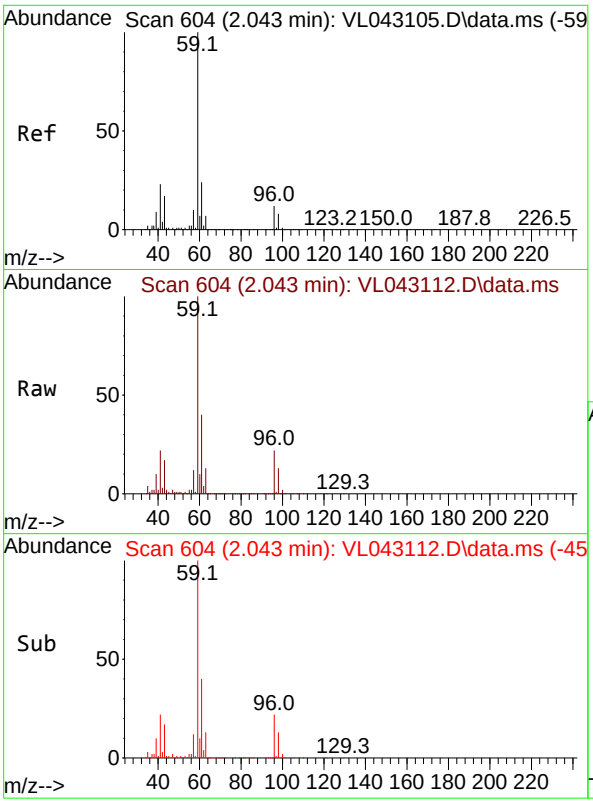


#16
1,3-Butadiene
Concen: 8.855 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 39 Resp: 55493

Ion	Ratio	Lower	Upper
39	100		
54	72.0	59.0	88.4



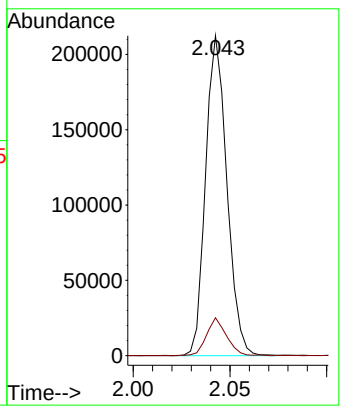


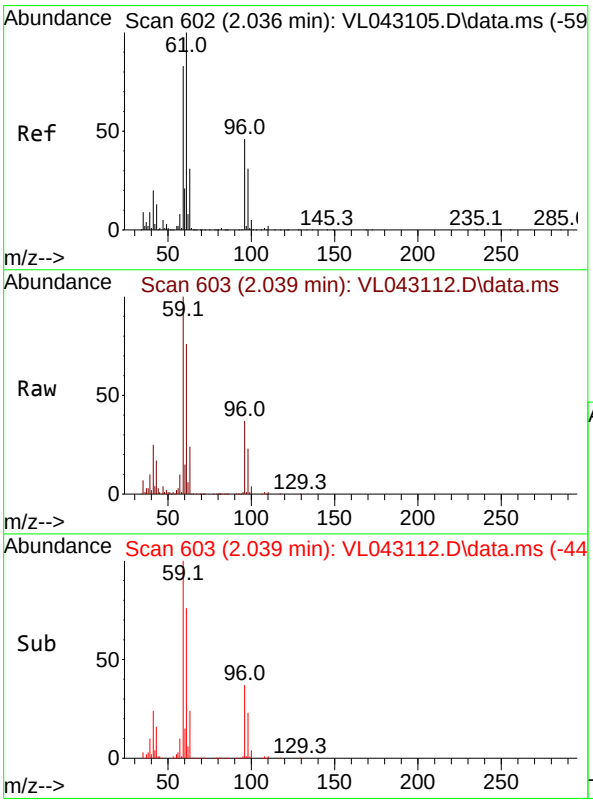
#17
tert-Butyl alcohol
Concen: 9.012 ppbv
RT: 2.043 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 59 Resp: 162672

Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.2	12.4

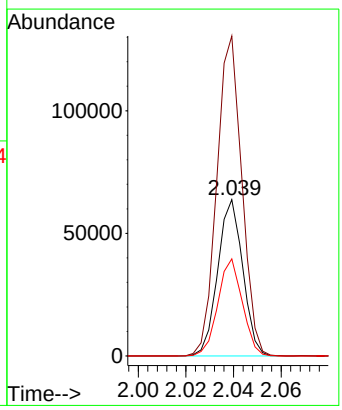


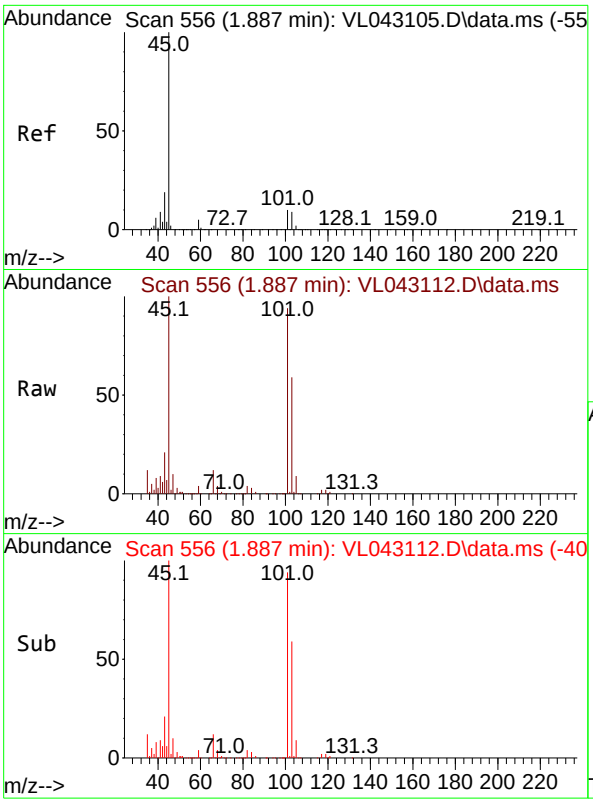


#18
1,1-Dichloroethene
Concen: 9.774 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 96 Resp: 46544

Ion	Ratio	Lower	Upper
96	100		
61	204.7	173.4	260.0
98	62.1	53.2	79.8



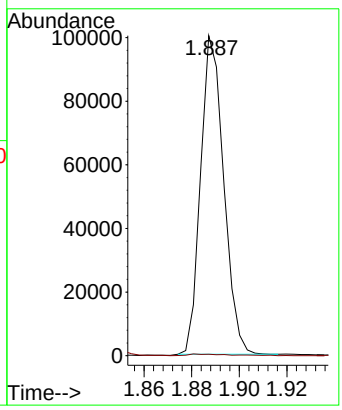


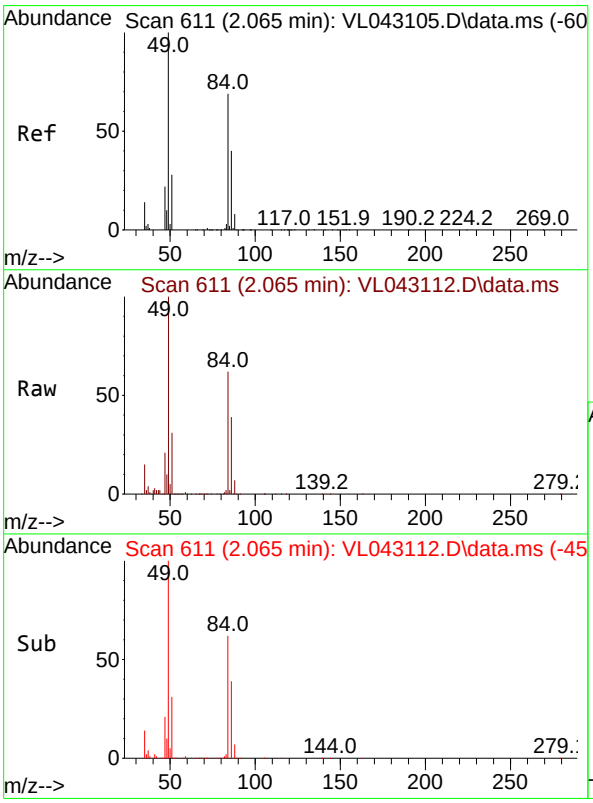
#19
Isopropyl Alcohol
Concen: 8.248 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 45 Resp: 67552

Ion	Ratio	Lower	Upper
45	100		
58	41.1	31.3	46.9

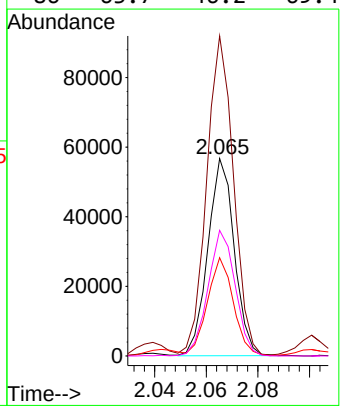


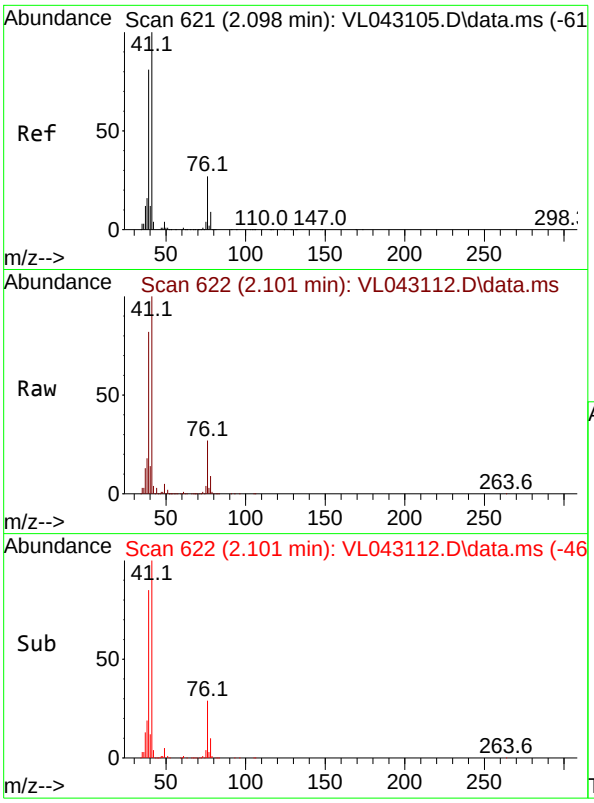


#20
Methylene Chloride
Concen: 7.757 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 84 Resp: 40319

Ion	Ratio	Lower	Upper
84	100		
49	161.4	116.6	175.0
51	49.4	34.8	52.2
86	63.7	46.2	69.4



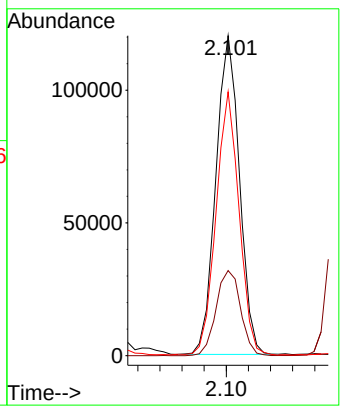


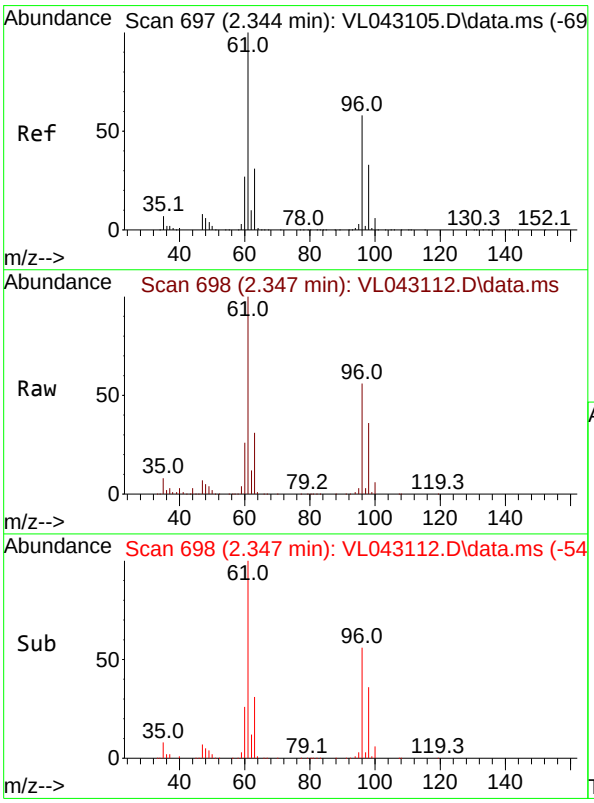
#21
Allyl Chloride
Concen: 9.181 ppbv
RT: 2.101 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 41 Resp: 88965

Ion	Ratio	Lower	Upper
41	100		
76	27.7	21.5	32.3
39	80.2	60.8	91.2

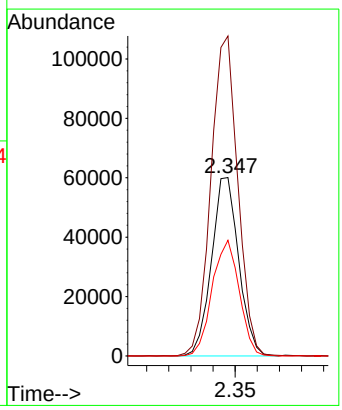


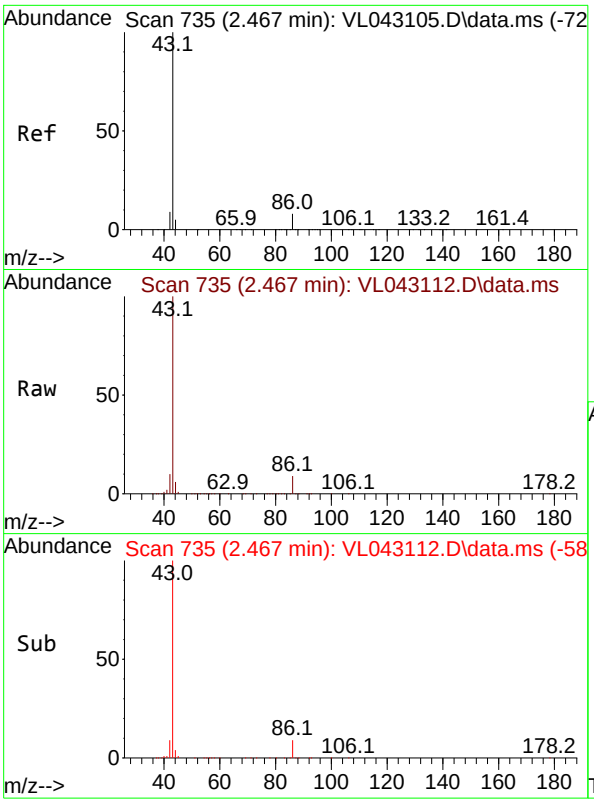


#22
trans-1,2-Dichloroethene
Concen: 9.011 ppbv
RT: 2.347 min Scan# 698
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 96 Resp: 51295

Ion	Ratio	Lower	Upper
96	100		
61	179.2	137.0	205.6
98	64.8	45.5	68.3



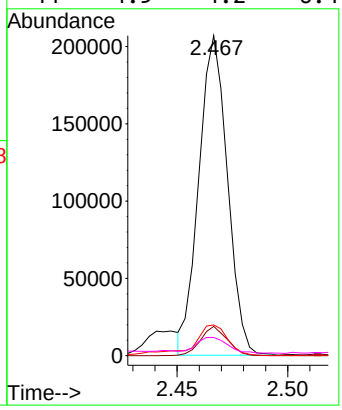


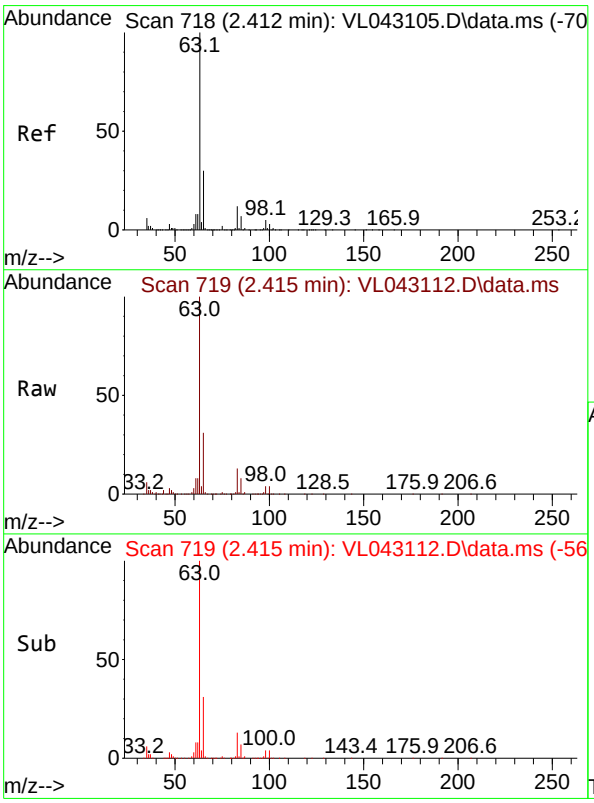
#23
Vinyl Acetate
Concen: 9.621 ppbv
RT: 2.467 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 43 Resp: 185329

Ion	Ratio	Lower	Upper
43	100		
86	9.2	6.2	9.2
42	9.5	7.6	11.4
44	4.9	4.2	6.4

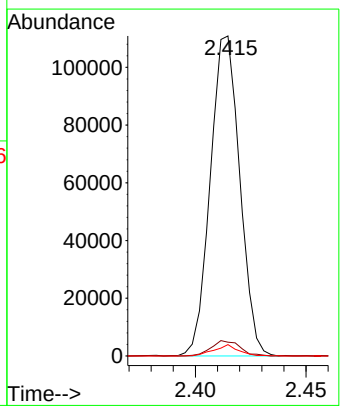


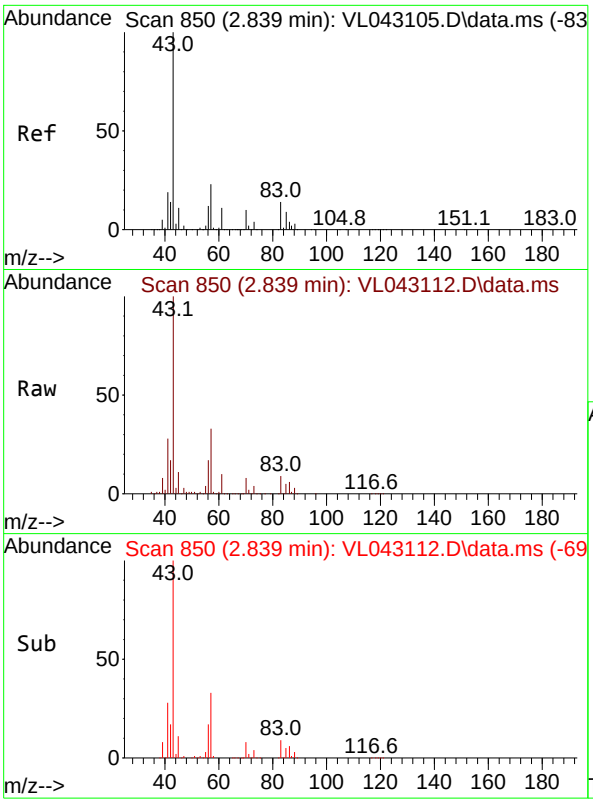


#24
1,1-Dichloroethane
Concen: 9.355 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 63 Resp: 102877

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.6	7.8
100	3.5	1.5	4.4



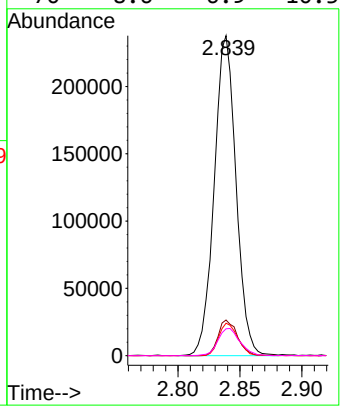


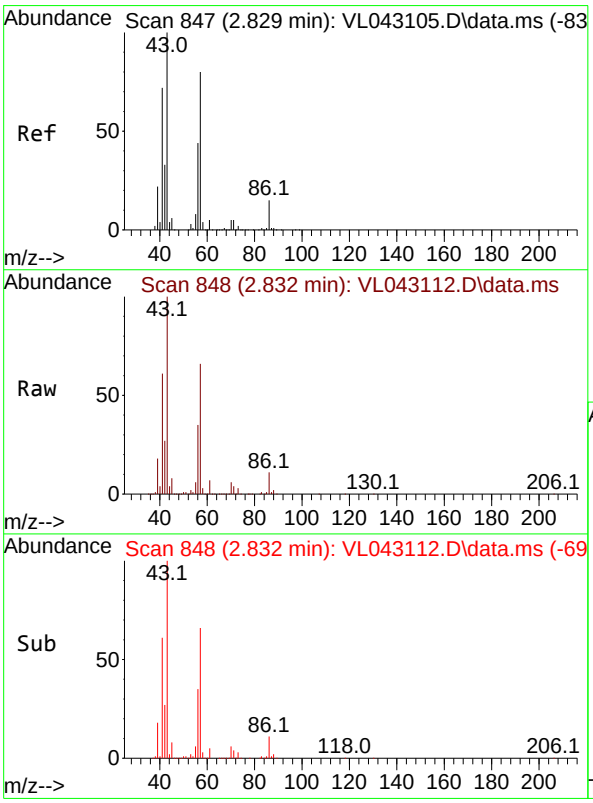
#25
Ethyl Acetate
Concen: 8.966 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 43 Resp: 292399

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.8
61	9.0	7.0	10.6
70	8.6	6.9	10.3

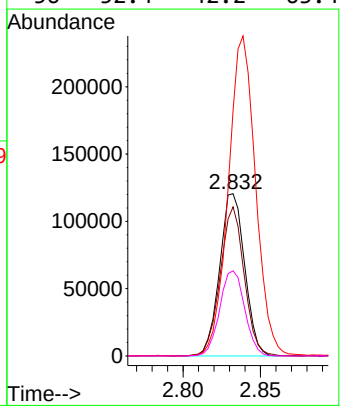


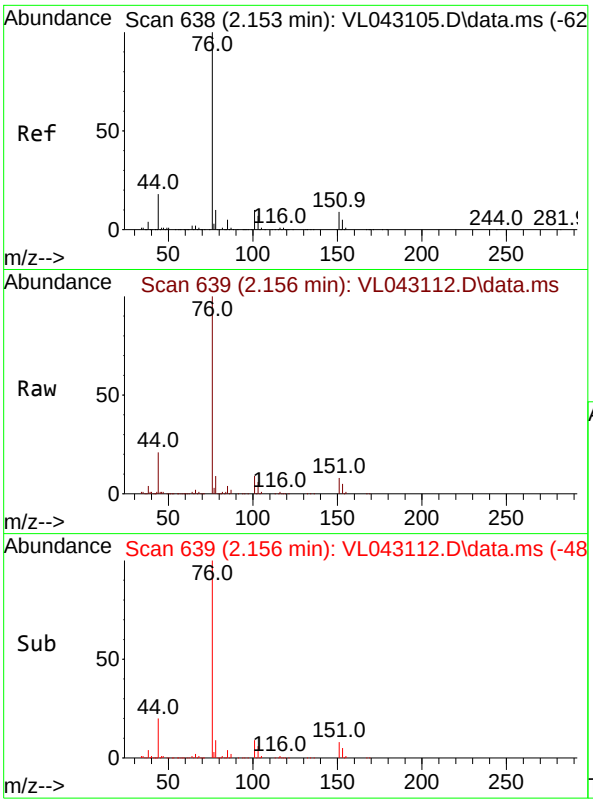


#26
Hexane
Concen: 9.015 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 57 Resp: 135463

Ion	Ratio	Lower	Upper
57	100		
41	88.9	71.4	107.0
43	216.8	178.5	267.7
56	52.4	42.2	63.4



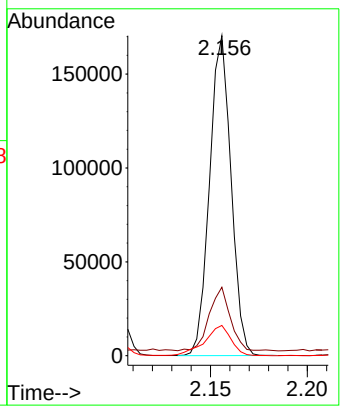


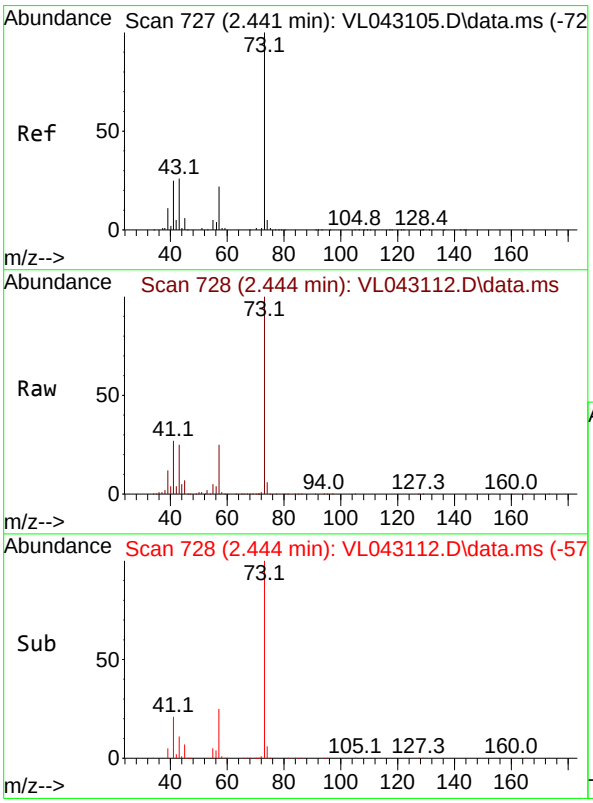
#27
Carbon Disulfide
Concen: 9.520 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 76 Resp: 131064

Ion	Ratio	Lower	Upper
76	100		
44	20.7	16.7	25.1
78	11.7	9.3	13.9

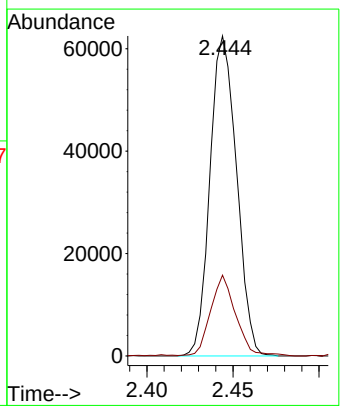


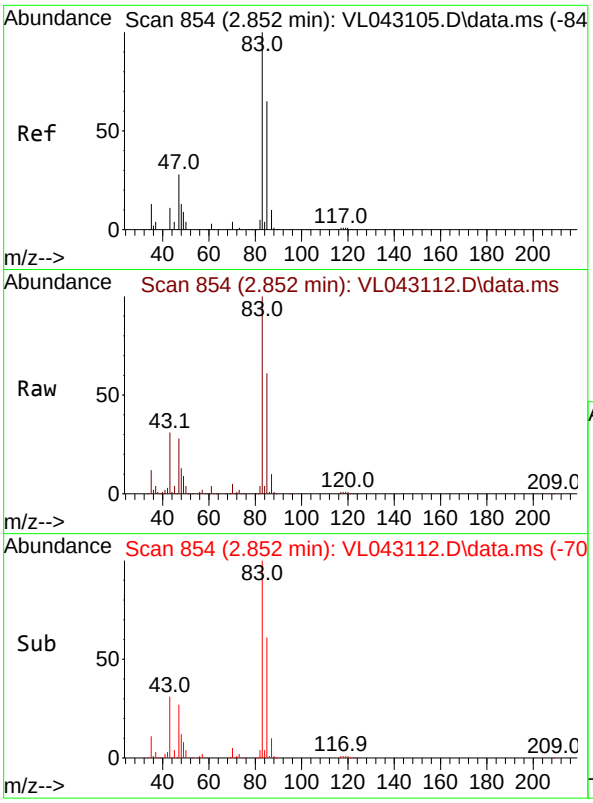


#28
Methyl tert-Butyl Ether
Concen: 9.839 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 73 Resp: 67260

Ion	Ratio	Lower	Upper
73	100		
57	24.1	20.5	30.7



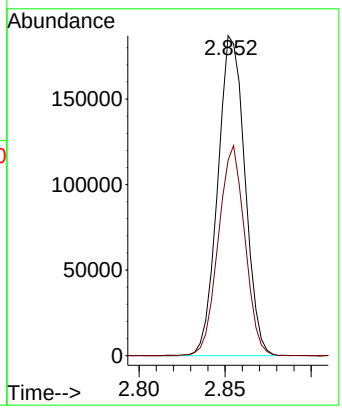


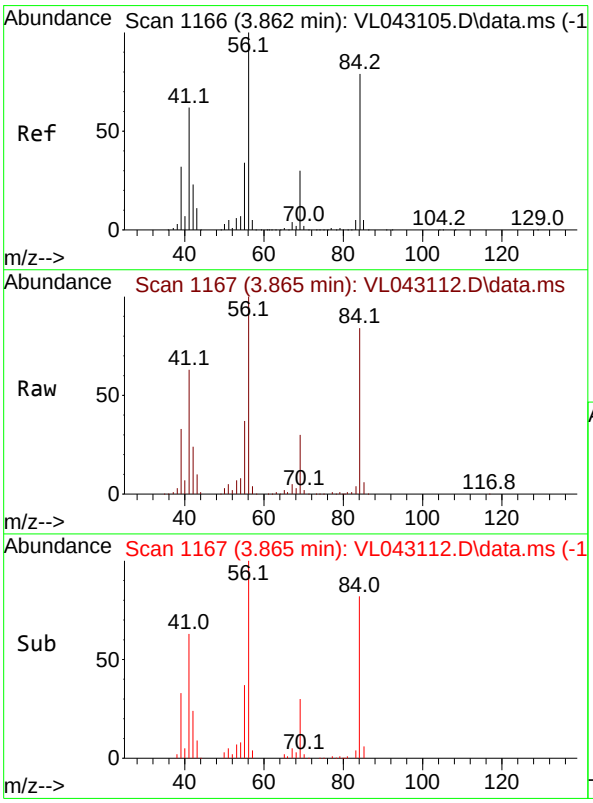
#29
Chloroform
Concen: 9.412 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 83 Resp: 204925

Ion	Ratio	Lower	Upper
83	100		
85	61.0	51.8	77.6

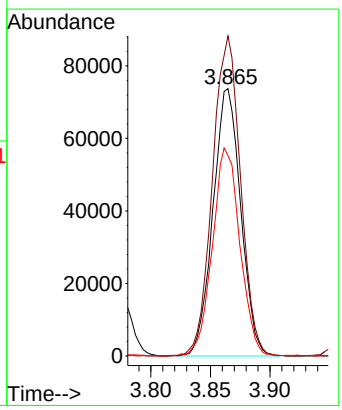


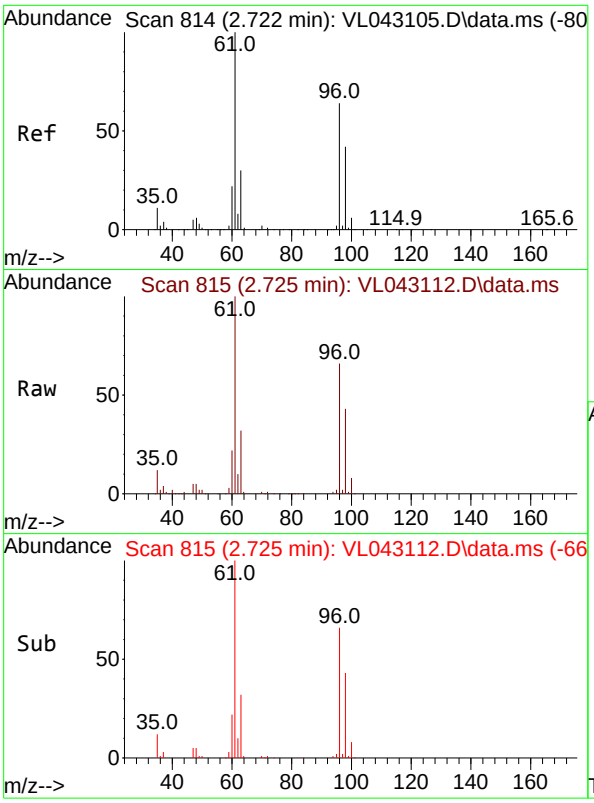


#30
Cyclohexane
Concen: 9.096 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 84 Resp: 119287

Ion	Ratio	Lower	Upper
84	100		
56	120.8	100.9	151.3
41	77.4	63.8	95.6



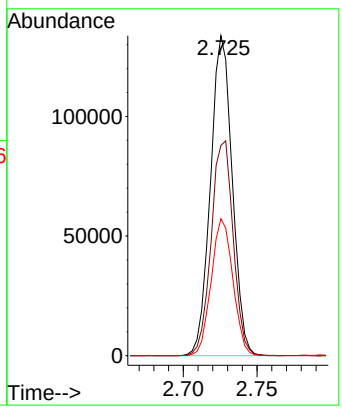


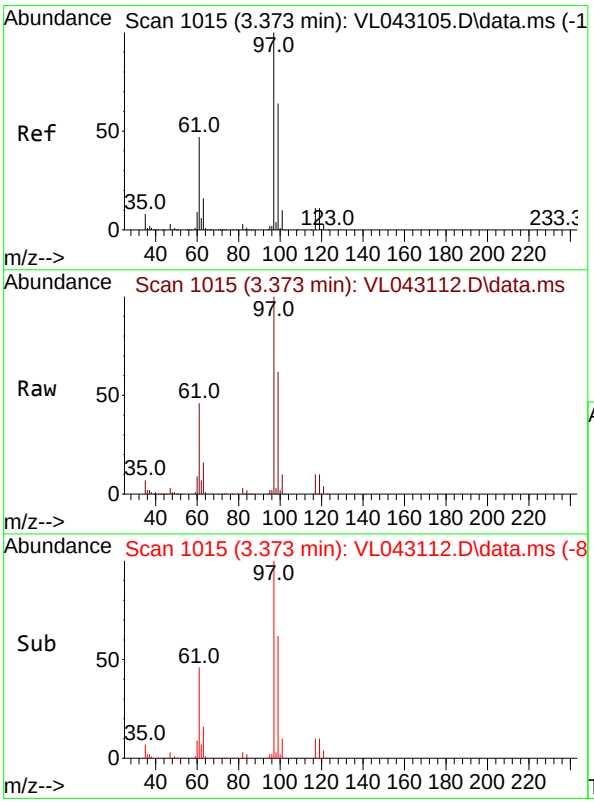
#31
cis-1,2-Dichloroethene
Concen: 9.580 ppbv
RT: 2.725 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 61 Resp: 137462

Ion	Ratio	Lower	Upper
61	100		
96	65.7	51.0	76.6
98	42.8	33.5	50.3

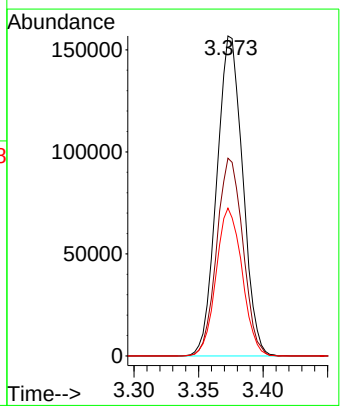


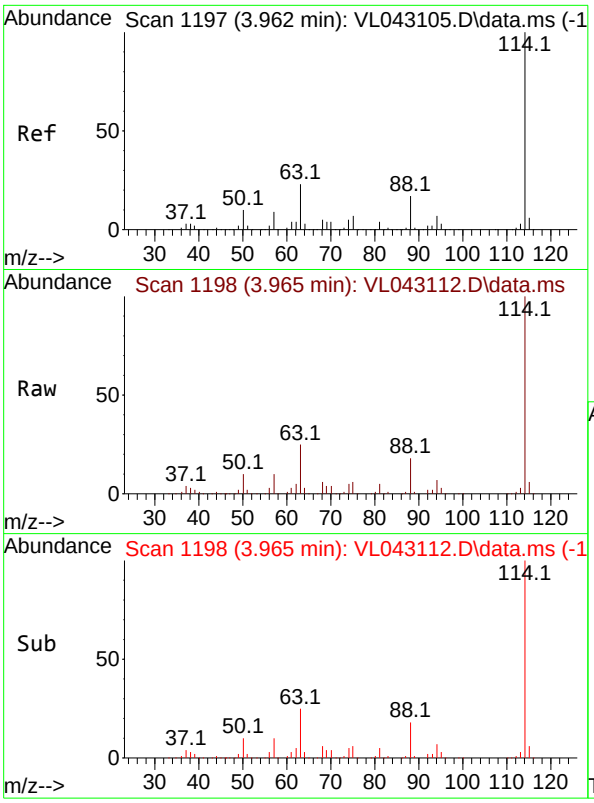


#32
1,1,1-Trichloroethane
Concen: 9.666 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 97 Resp: 219167

Ion	Ratio	Lower	Upper
97	100		
99	62.3	51.3	76.9
61	46.4	38.4	57.6



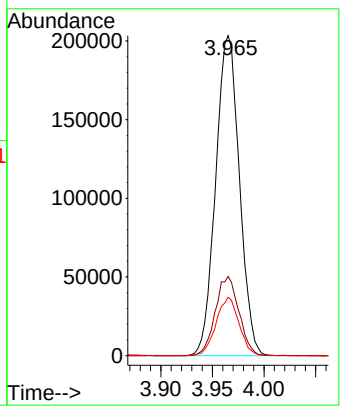


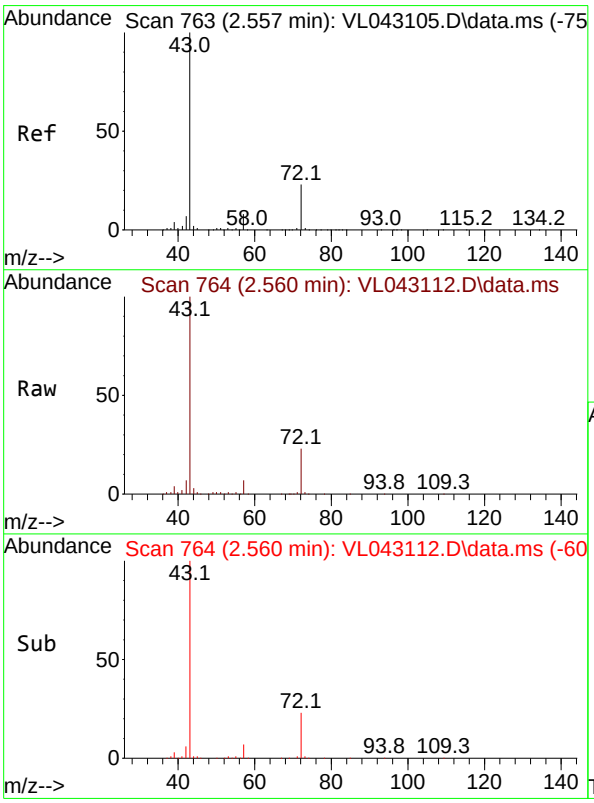
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:114 Resp: 325610

Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.3	28.9
88	17.6	13.9	20.9

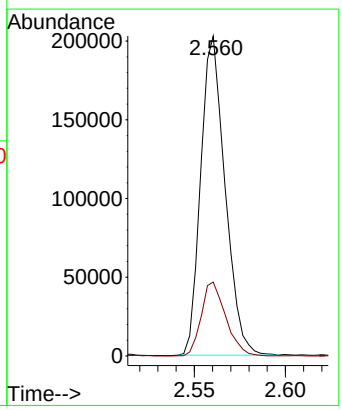


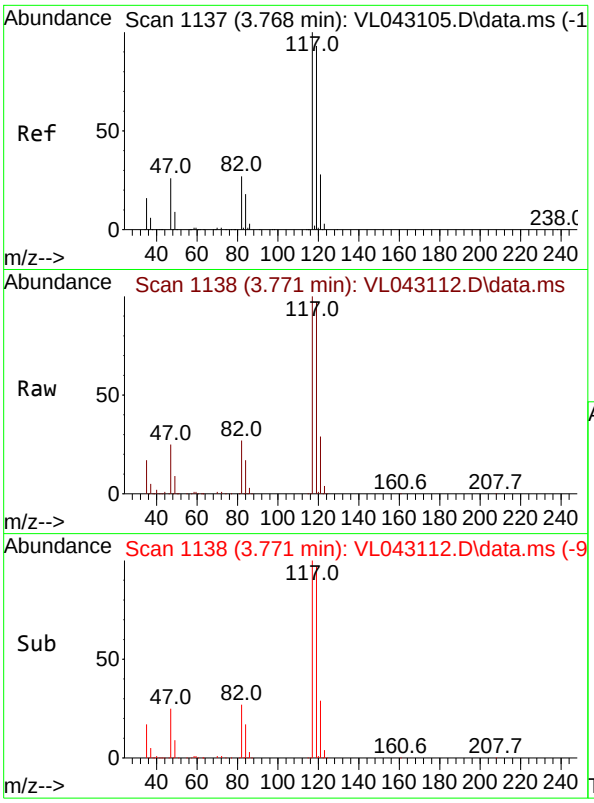


#34
2-Butanone
Concen: 8.624 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 188755

Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.4	27.6



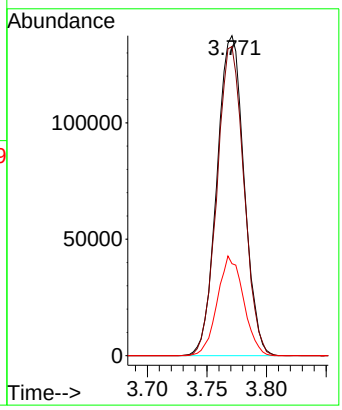


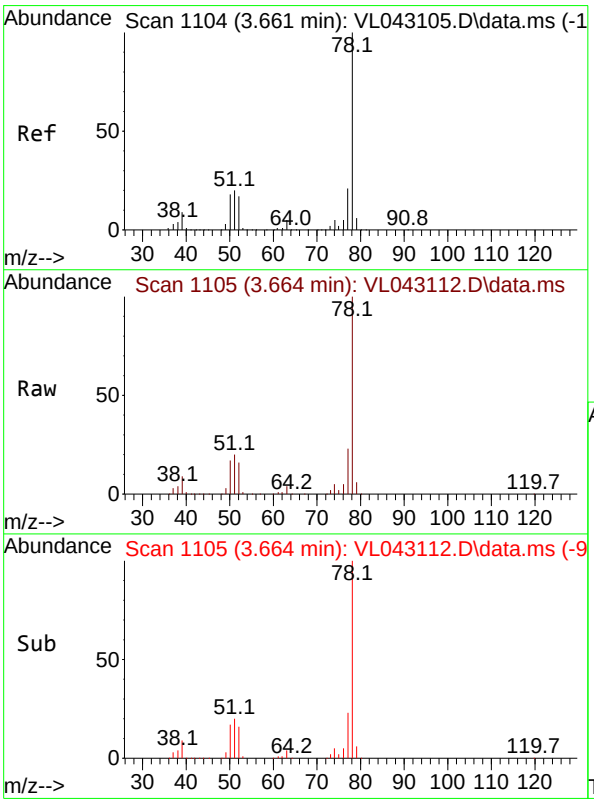
#35
Carbon Tetrachloride
Concen: 9.298 ppbv
RT: 3.771 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:117 Resp: 217678

Ion	Ratio	Lower	Upper
117	100		
119	96.6	74.1	111.1
121	28.7	22.2	33.2

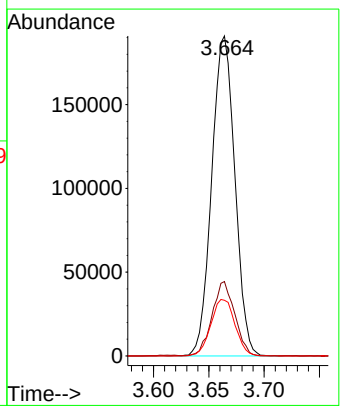


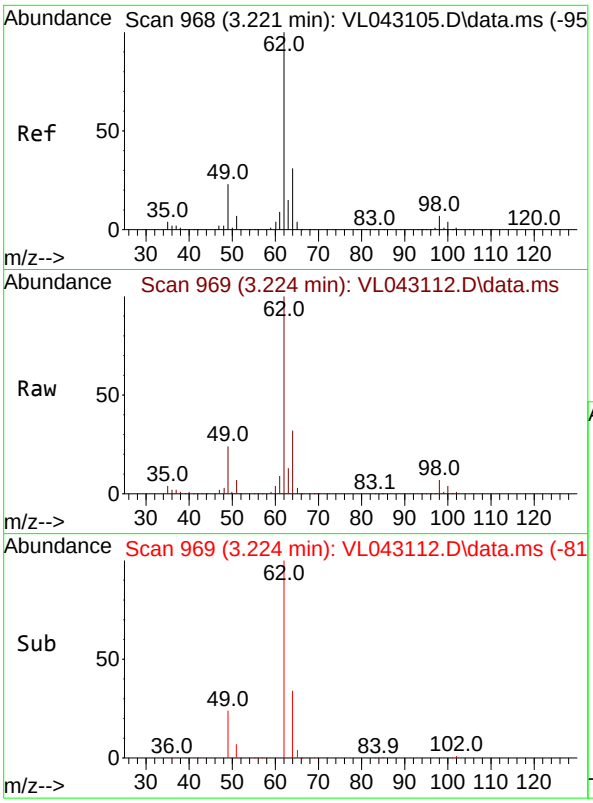


#36
Benzene
Concen: 9.077 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 78 Resp: 278365

Ion	Ratio	Lower	Upper
78	100		
77	23.2	17.0	25.6
50	17.4	14.6	22.0



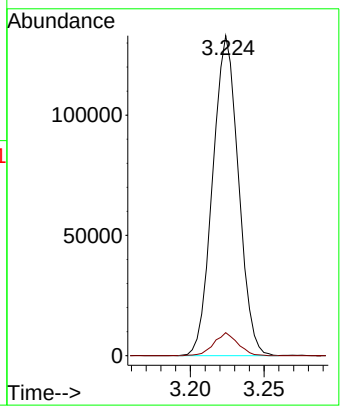


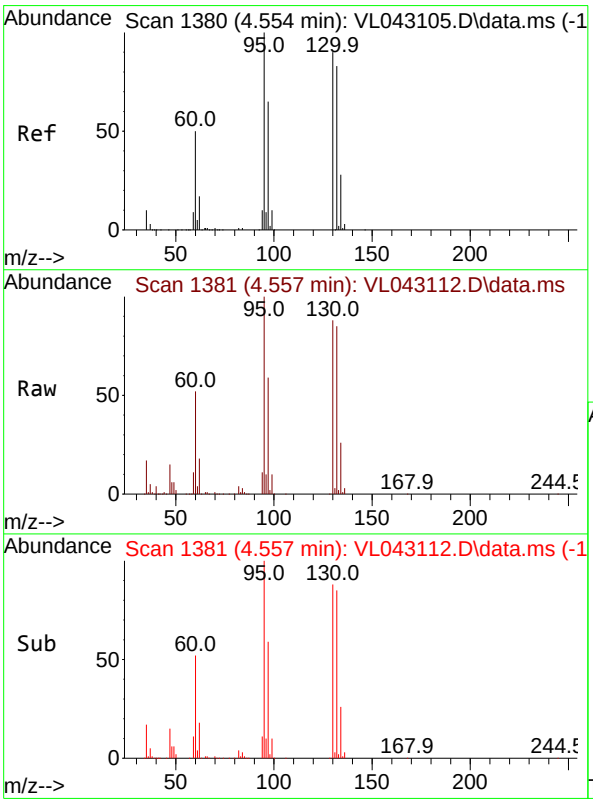
#37
1,2-Dichloroethane
Concen: 9.156 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 62 Resp: 161750

Ion	Ratio	Lower	Upper
62	100		
98	6.7	5.8	8.6

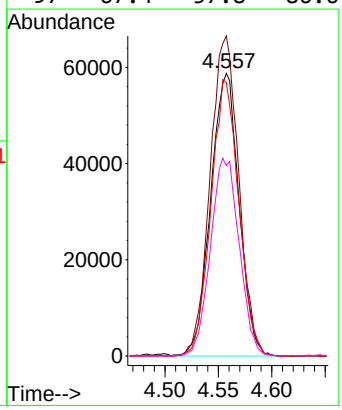


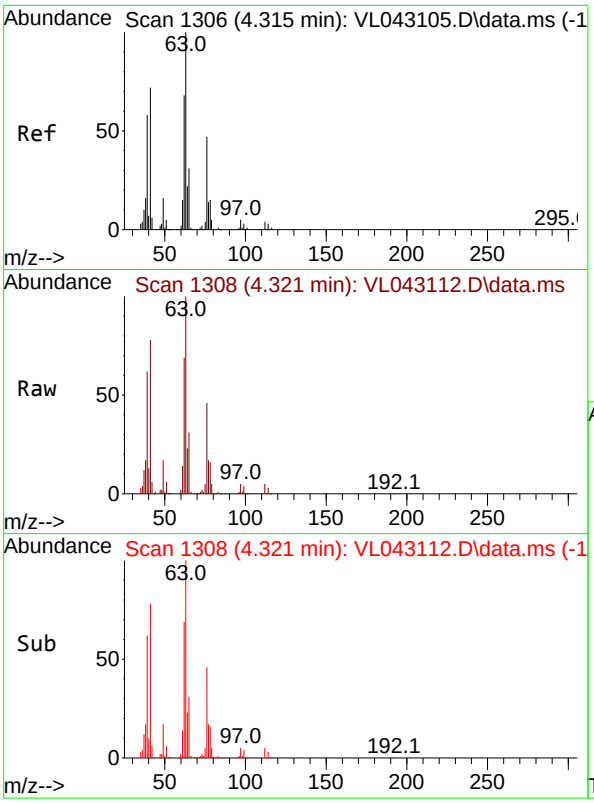


#38
Trichloroethene
Concen: 8.453 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:130 Resp: 108261

Ion	Ratio	Lower	Upper
130	100		
95	113.2	88.6	133.0
132	96.7	73.4	110.0
97	67.4	57.8	86.6



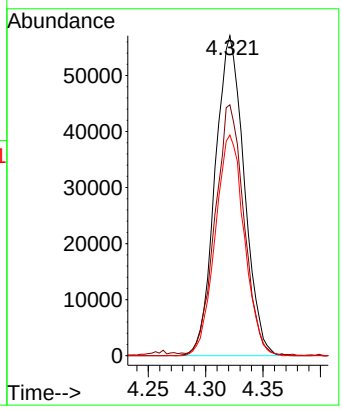


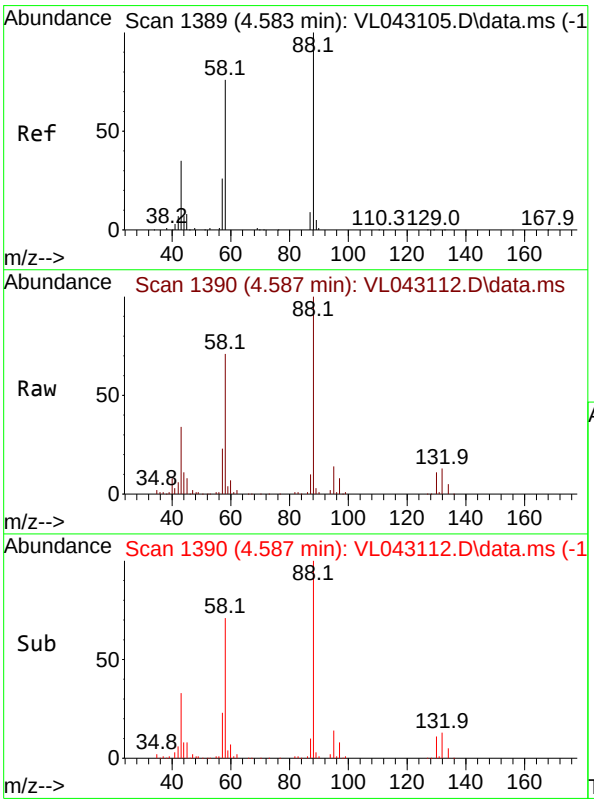
#39
1,2-Dichloropropane
Concen: 8.971 ppbv
RT: 4.321 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 63 Resp: 100580

Ion	Ratio	Lower	Upper
63	100		
41	78.0	58.0	87.0
62	69.0	54.7	82.1

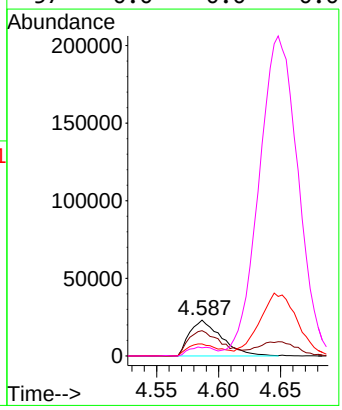


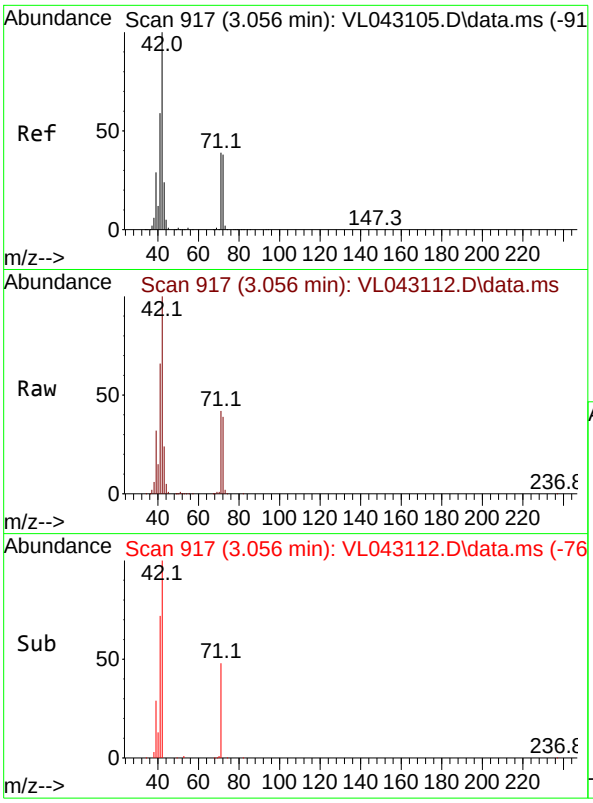


#40
1,4-Dioxane
Concen: 8.265 ppbv
RT: 4.587 min Scan# 1390
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 88 Resp: 41464

Ion	Ratio	Lower	Upper
88	100		
58	74.2	61.1	91.7
43	35.4	24.0	36.0
57	0.0	0.0	0.0



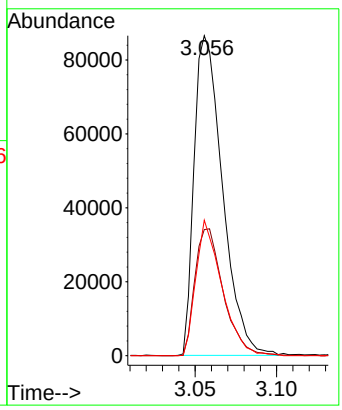


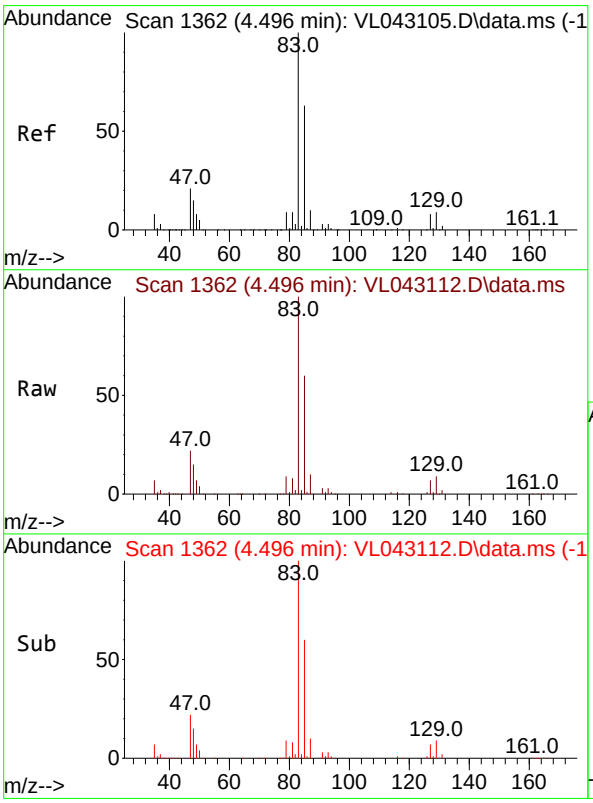
#41
Tetrahydrofuran
Concen: 8.553 ppbv
RT: 3.056 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 42 Resp: 104701

Ion	Ratio	Lower	Upper
42	100		
72	39.8	31.3	46.9
71	38.8	30.4	45.6

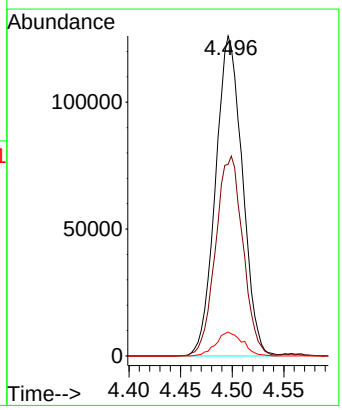


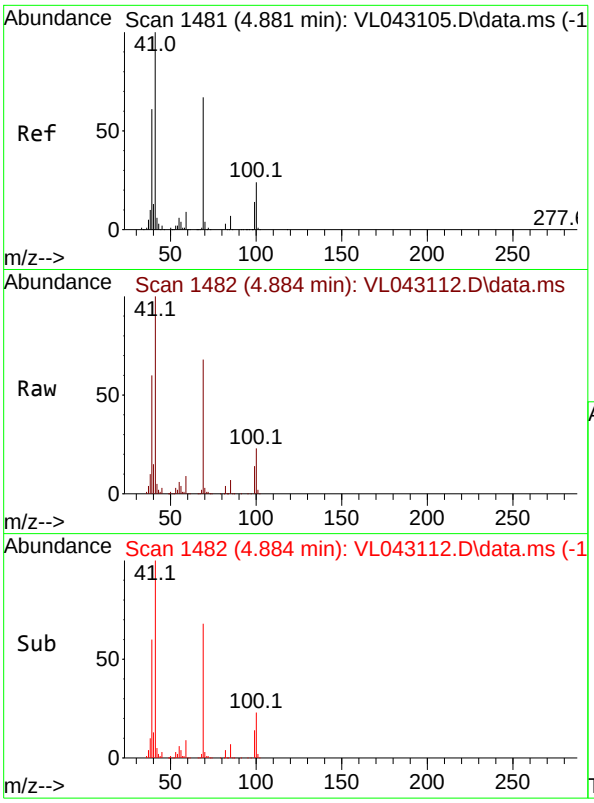


#42
Bromodichloromethane
Concen: 9.336 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 83 Resp: 228288

Ion	Ratio	Lower	Upper
83	100		
85	59.8	50.6	75.8
127	7.5	6.3	9.5



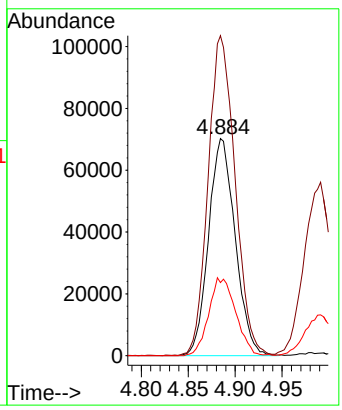


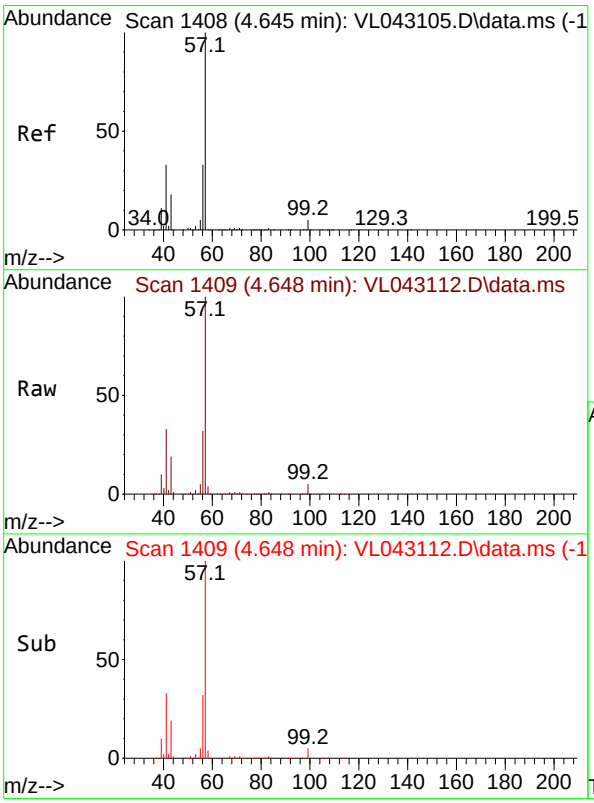
#43
Methyl Methacrylate
Concen: 8.898 ppbv
RT: 4.884 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 69 Resp: 138593

Ion	Ratio	Lower	Upper
69	100		
41	149.1	120.5	180.7
100	36.3	29.0	43.4

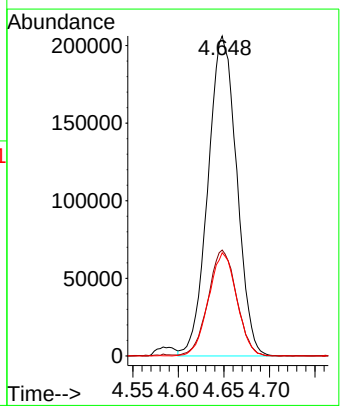


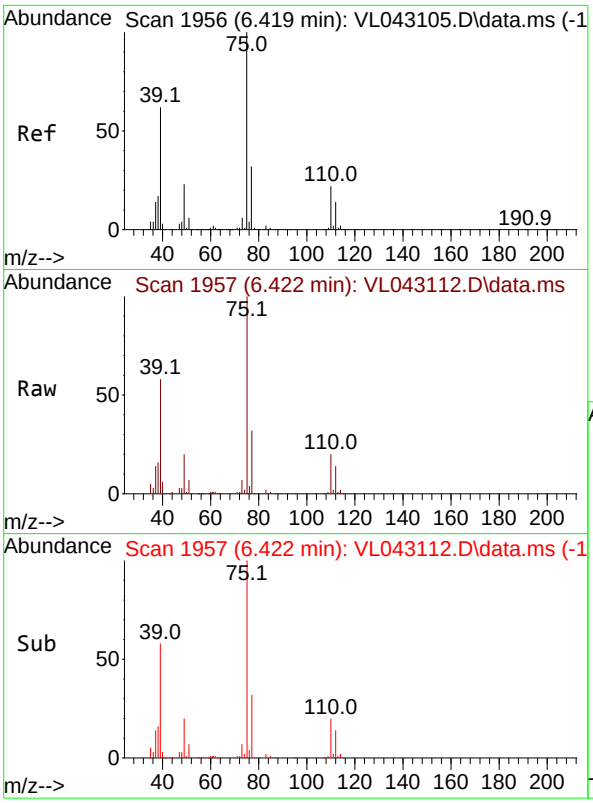


#44
2,2,4-Trimethylpentane
Concen: 8.738 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 57 Resp: 452117

Ion	Ratio	Lower	Upper
57	100		
41	33.2	26.3	39.5
56	31.6	25.9	38.9



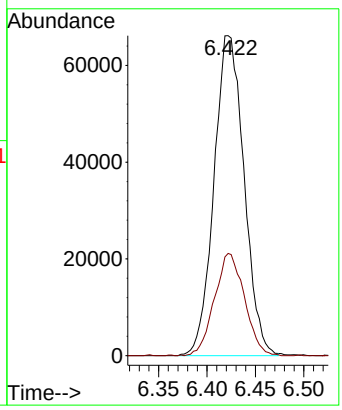


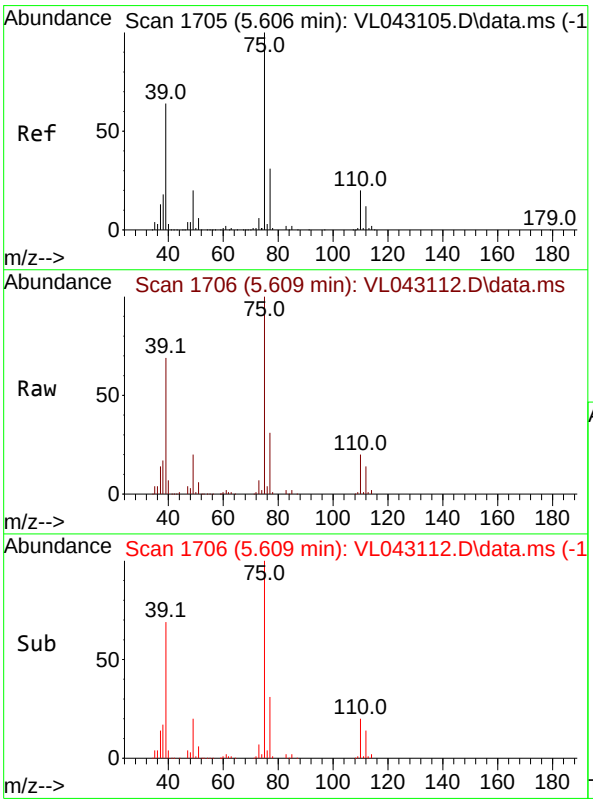
#45
t-1,3-Dichloropropene
Concen: 9.146 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 75 Resp: 142964

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.4	38.2

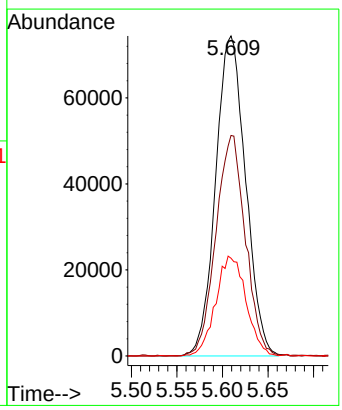


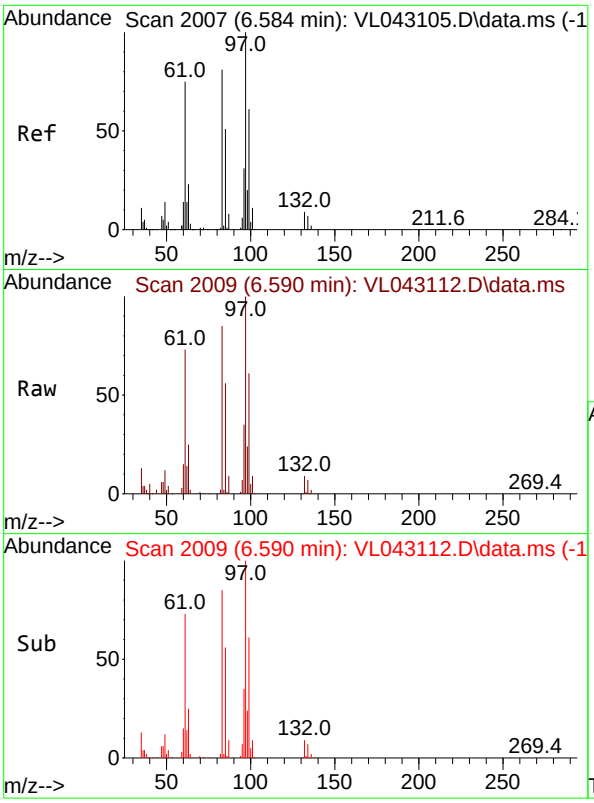


#46
cis-1,3-Dichloropropene
Concen: 9.106 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 75 Resp: 170038

Ion	Ratio	Lower	Upper
75	100		
39	68.8	51.0	76.6
77	30.5	25.0	37.4



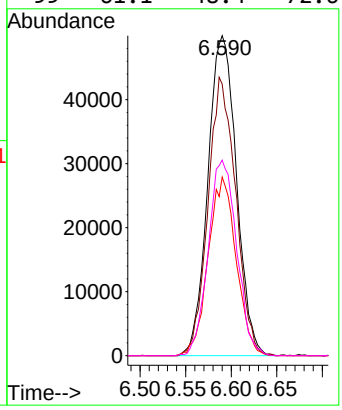


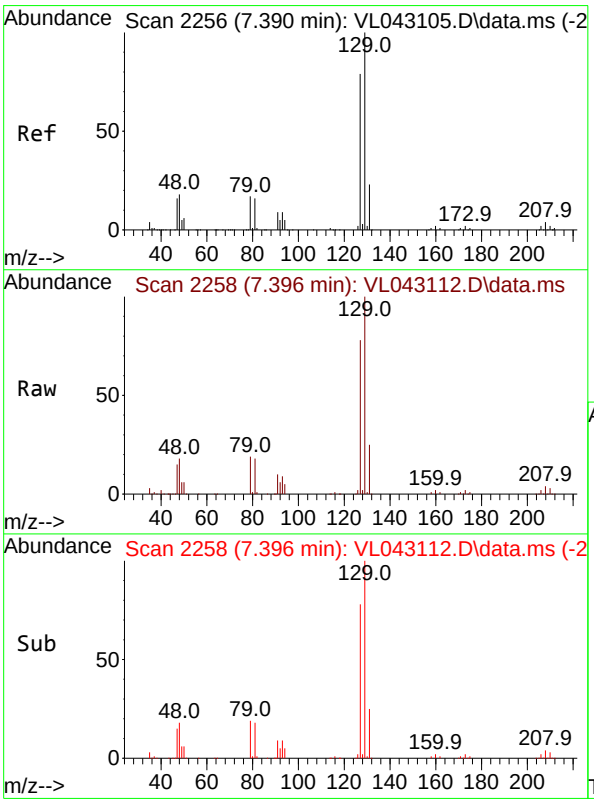
#47
1,1,2-Trichloroethane
Concen: 9.000 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 97 Resp: 108965

Ion	Ratio	Lower	Upper
97	100		
83	84.8	64.6	96.8
85	55.8	40.6	60.8
99	61.1	48.4	72.6

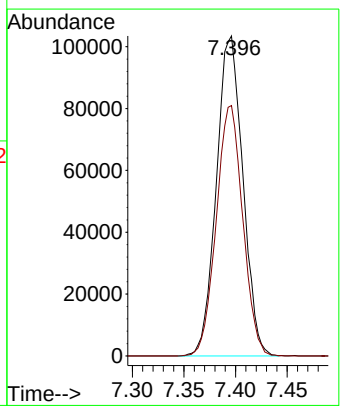


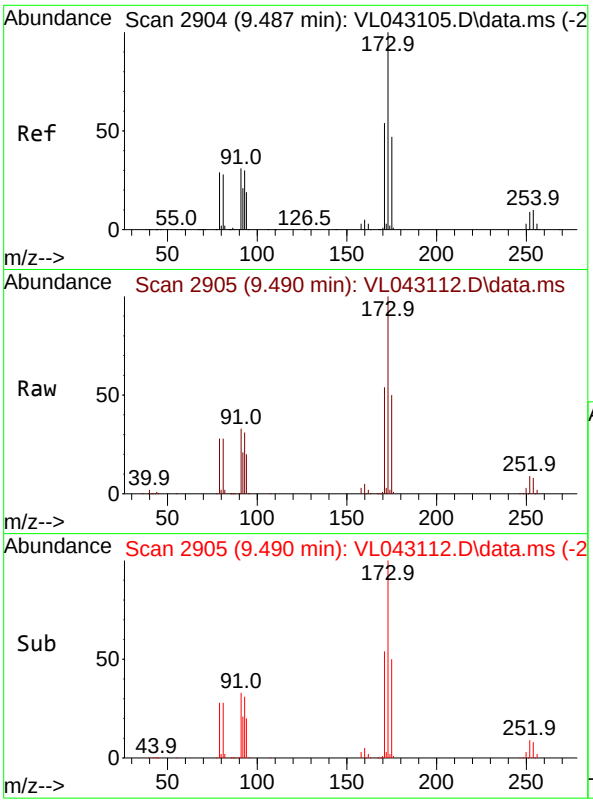


#48
Dibromochloromethane
Concen: 9.127 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:129 Resp: 184757

Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.3	117.9



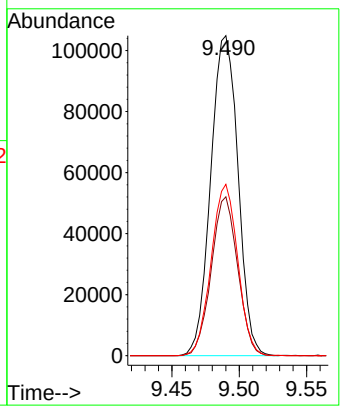


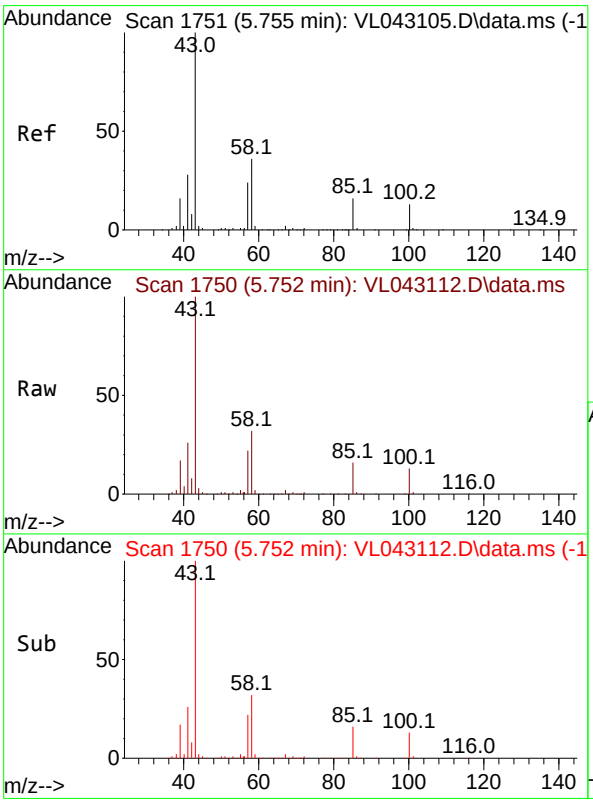
#49
Bromoform
Concen: 8.980 ppbv
RT: 9.490 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:173 Resp: 147759

Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.8	58.2
171	52.1	41.7	62.5

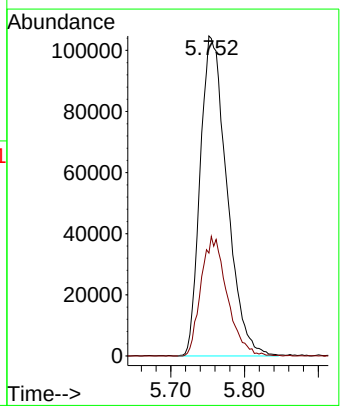


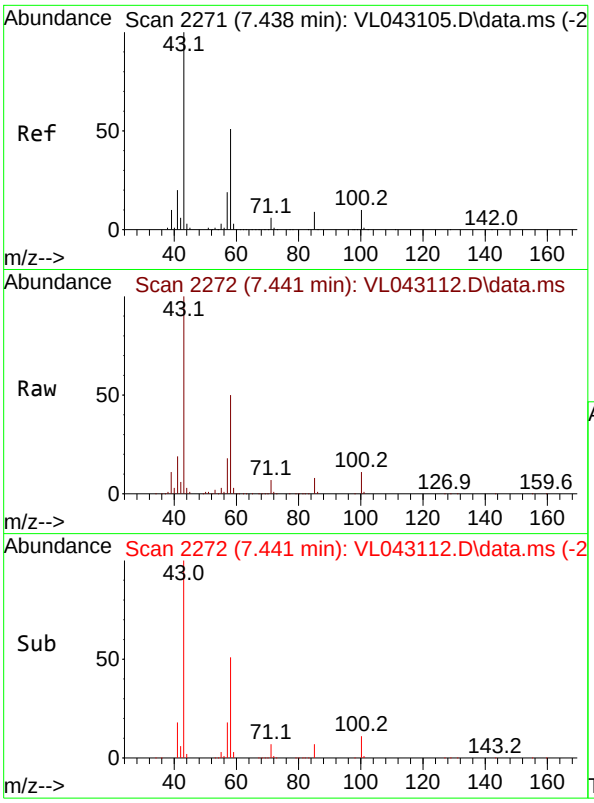


#50
4-Methyl-2-Pentanone
Concen: 8.709 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. -0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 263070

Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.1	43.7



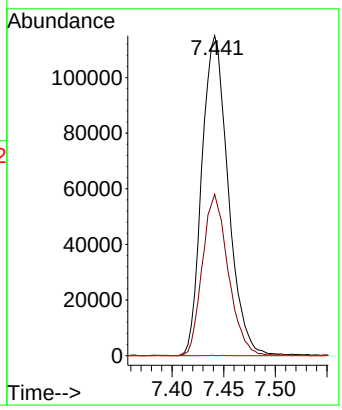


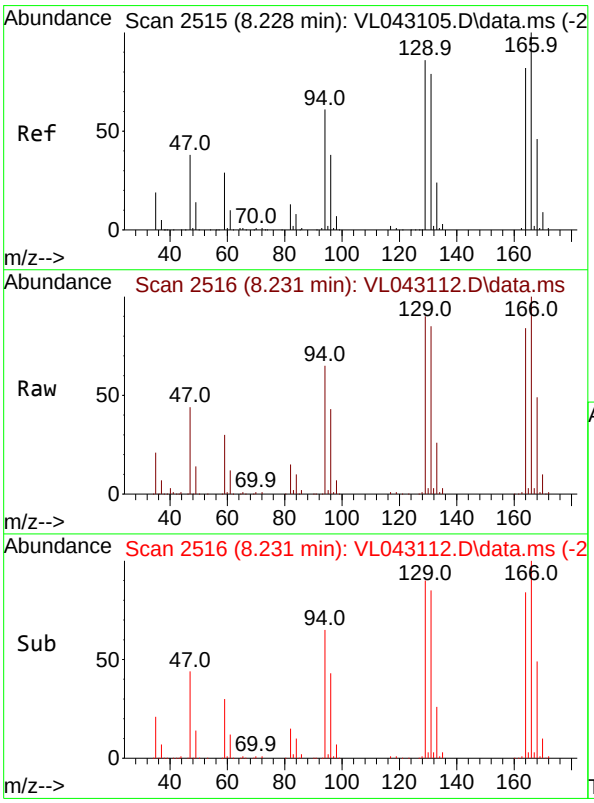
#51
2-Hexanone
Concen: 8.999 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 43 Resp: 203876

Ion	Ratio	Lower	Upper
43	100		
58	49.6	40.4	60.6
98	0.1	0.1	0.1#

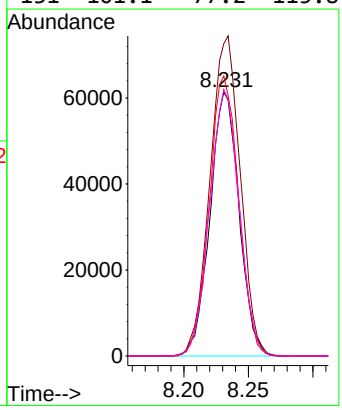


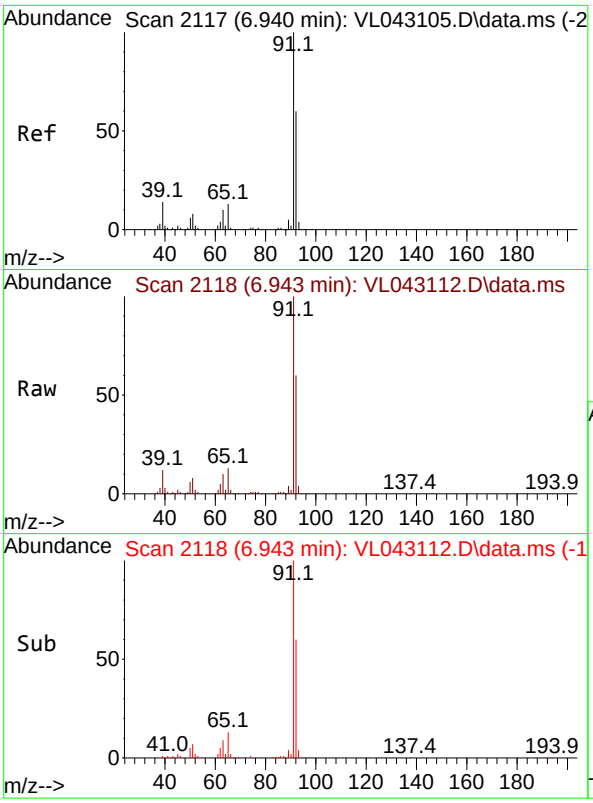


#52
Tetrachloroethene
Concen: 8.681 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:164 Resp: 96000

Ion	Ratio	Lower	Upper
164	100		
166	118.4	97.6	146.4
129	106.2	84.5	126.7
131	101.1	77.2	115.8



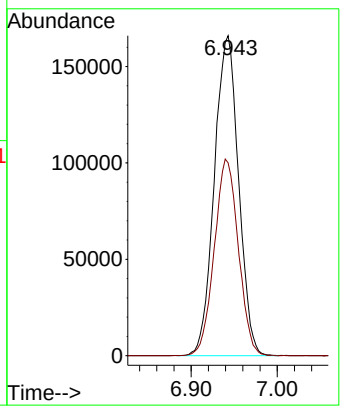


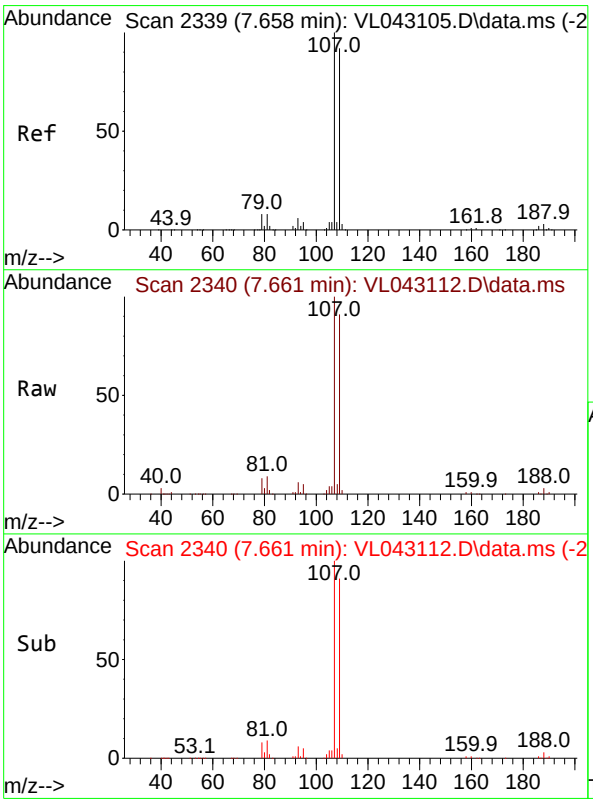
#53
Toluene
Concen: 8.928 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 91 Resp: 324944

Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.8	73.2

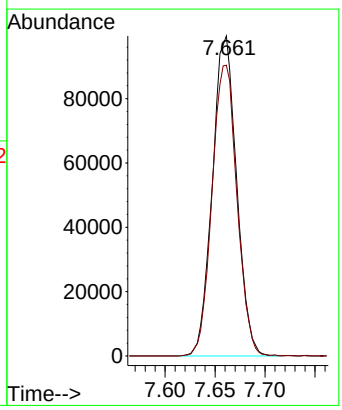


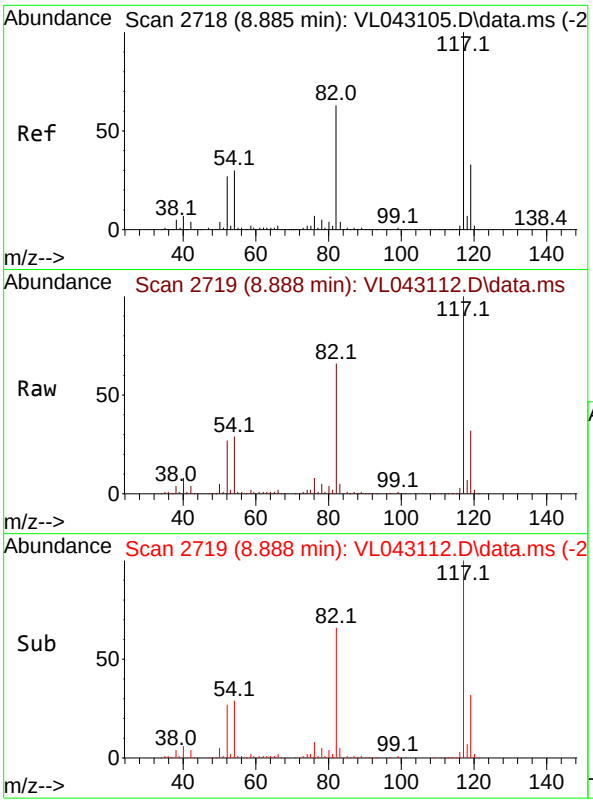


#54
1,2-Dibromoethane
Concen: 8.856 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:107 Resp: 167936

Ion	Ratio	Lower	Upper
107	100		
109	90.9	73.4	110.2



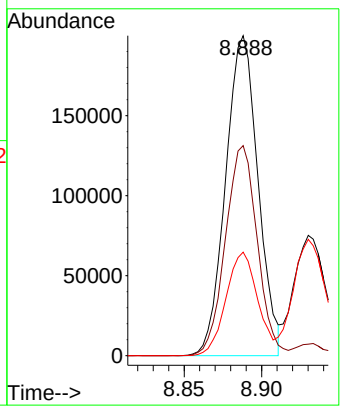


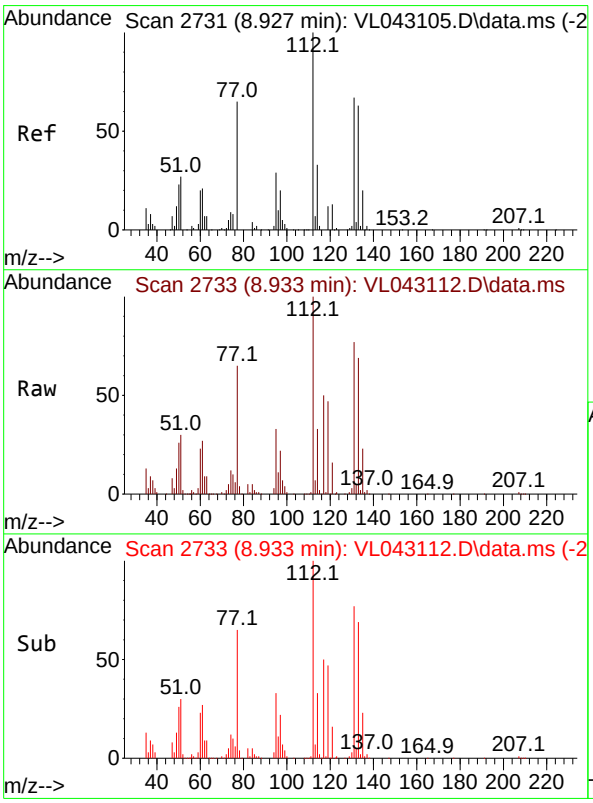
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:117 Resp: 291676

Ion	Ratio	Lower	Upper
117	100		
82	67.8	53.8	80.8
119	31.5	25.4	38.0

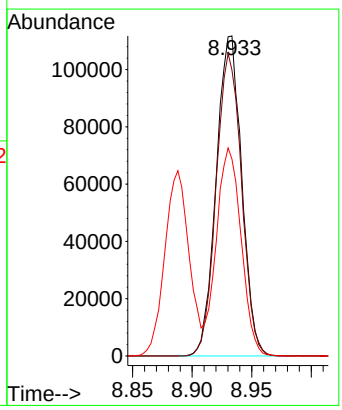


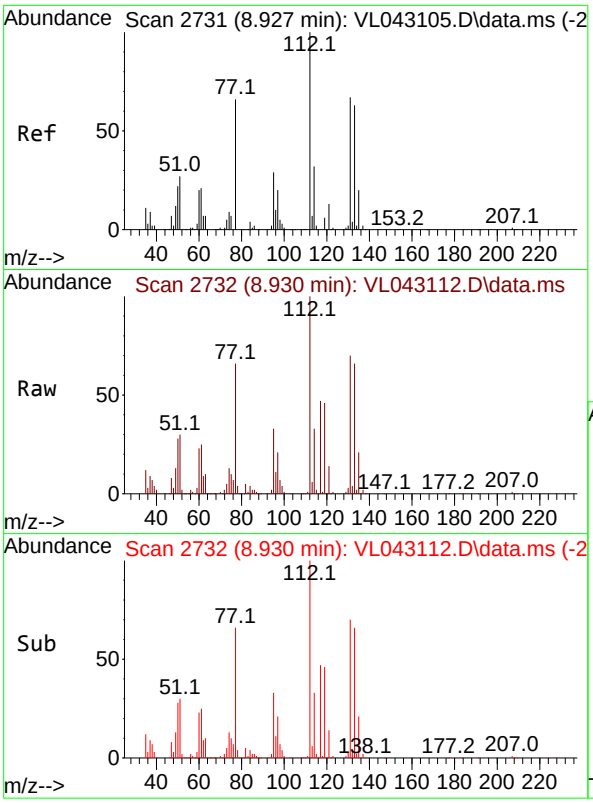


#56
1,1,1,2-Tetrachloroethane
Concen: 9.031 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:131 Resp: 166059

Ion	Ratio	Lower	Upper
131	100		
133	94.2	75.7	113.5
119	60.4	50.6	76.0



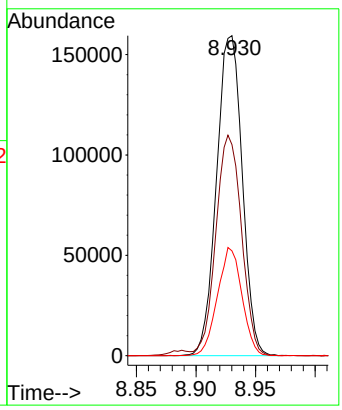


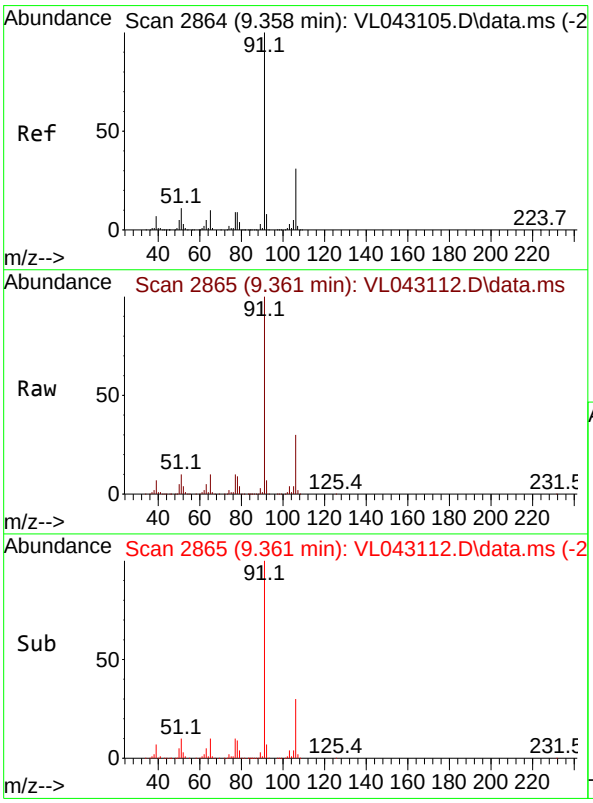
#57
Chlorobenzene
Concen: 8.770 ppbv
RT: 8.930 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:112 Resp: 239309

Ion	Ratio	Lower	Upper
112	100		
77	65.9	53.3	79.9
114	32.7	29.3	35.8

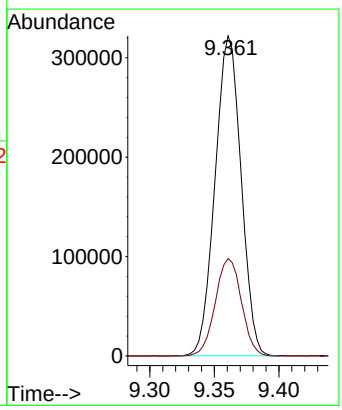


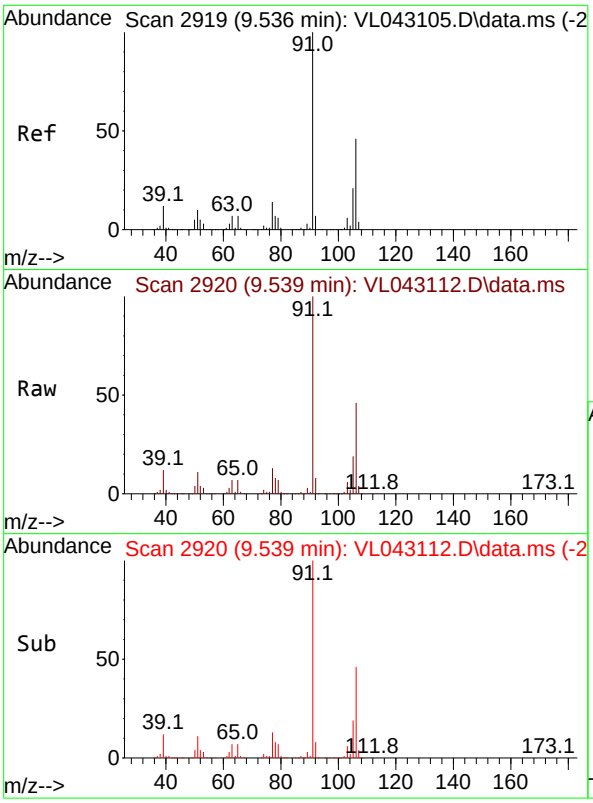


#58
Ethyl Benzene
Concen: 8.990 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 450029

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.8	37.2



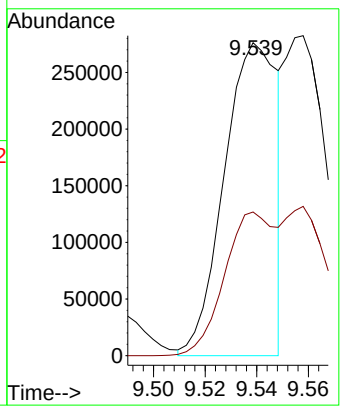


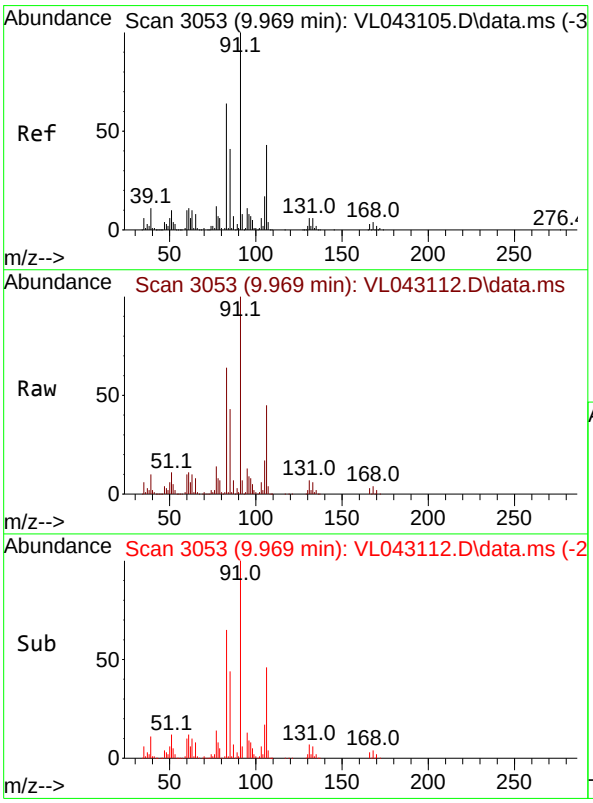
#59
m/p-Xylene
Concen: 9.822 ppbv
RT: 9.539 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 91 Resp: 392158

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

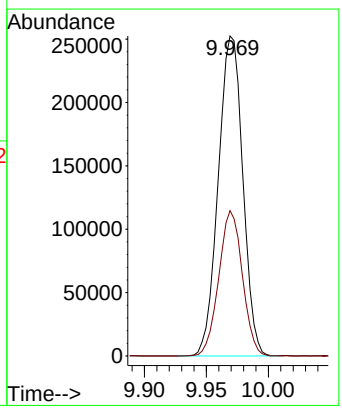


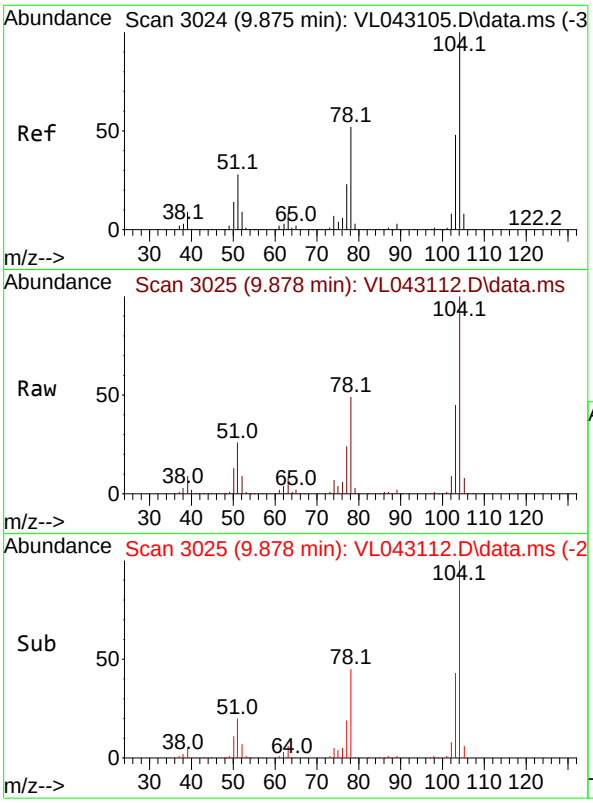


#60
o-Xylene
Concen: 8.834 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 348346

Ion	Ratio	Lower	Upper
91	100		
106	43.7	21.9	65.8



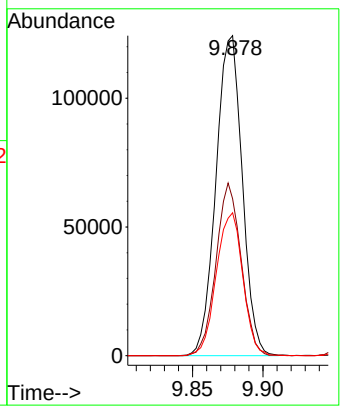


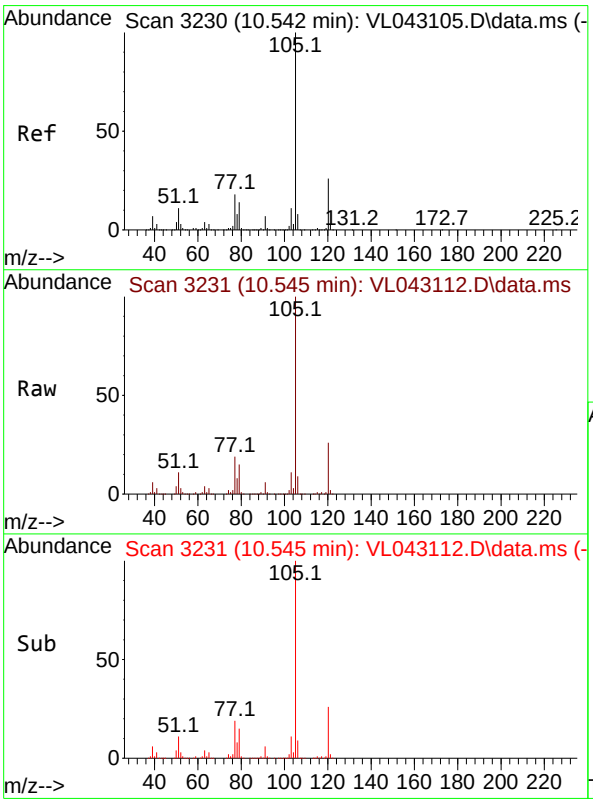
#61
Styrene
Concen: 9.099 ppbv
RT: 9.878 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:104 Resp: 161979

Ion	Ratio	Lower	Upper
104	100		
78	51.4	40.2	60.2
103	45.0	36.9	55.3

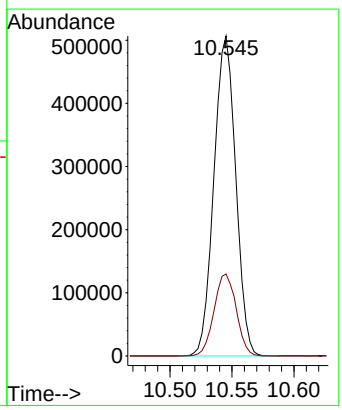


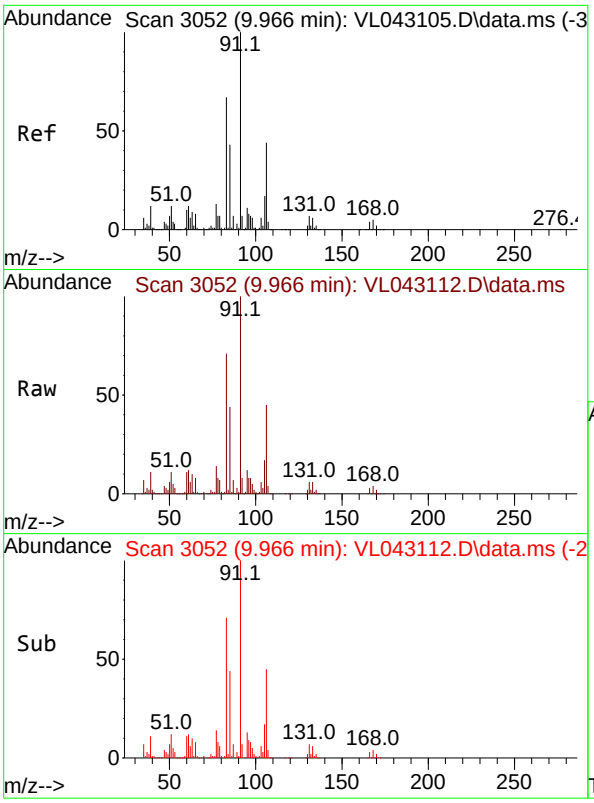


#62
Isopropylbenzene
Concen: 8.726 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 621758

Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.2	30.4



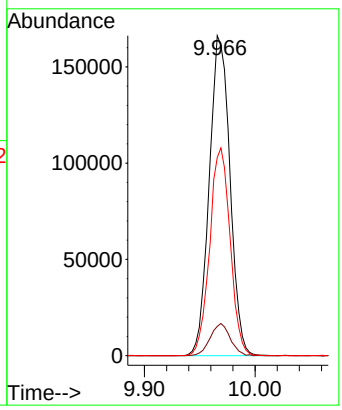


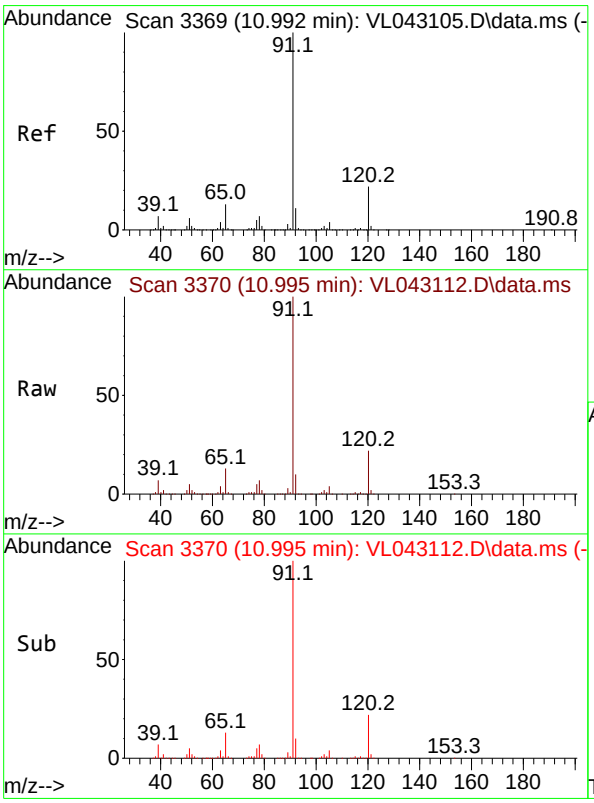
#63
1,1,2,2-Tetrachloroethane
Concen: 8.177 ppbv
RT: 9.966 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 83 Resp: 215911

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.3
85	64.1	32.0	96.0

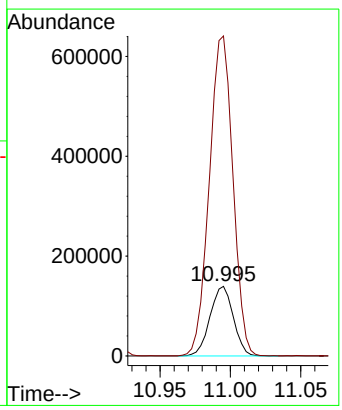


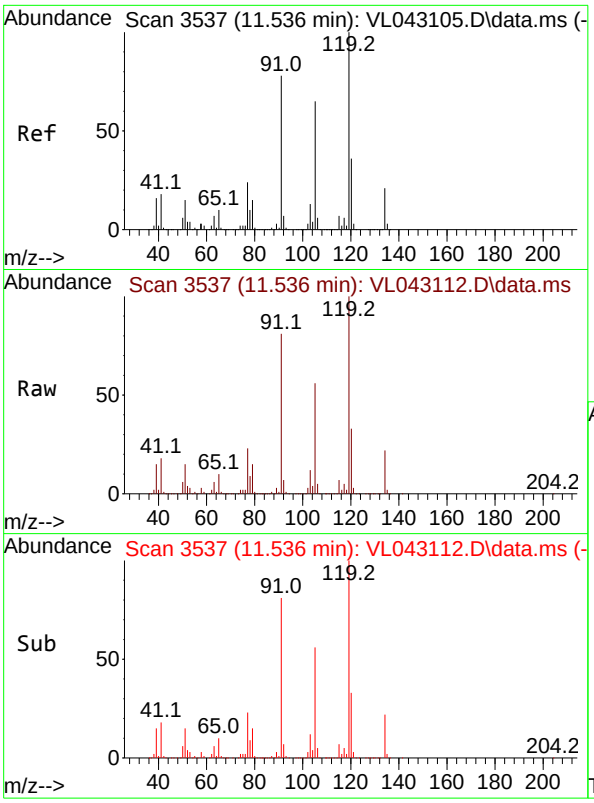


#64
n-propylbenzene
Concen: 8.503 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:120 Resp: 160411

Ion	Ratio	Lower	Upper
120	100		
91	467.8	361.6	542.4



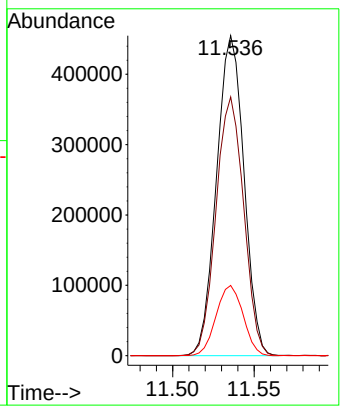


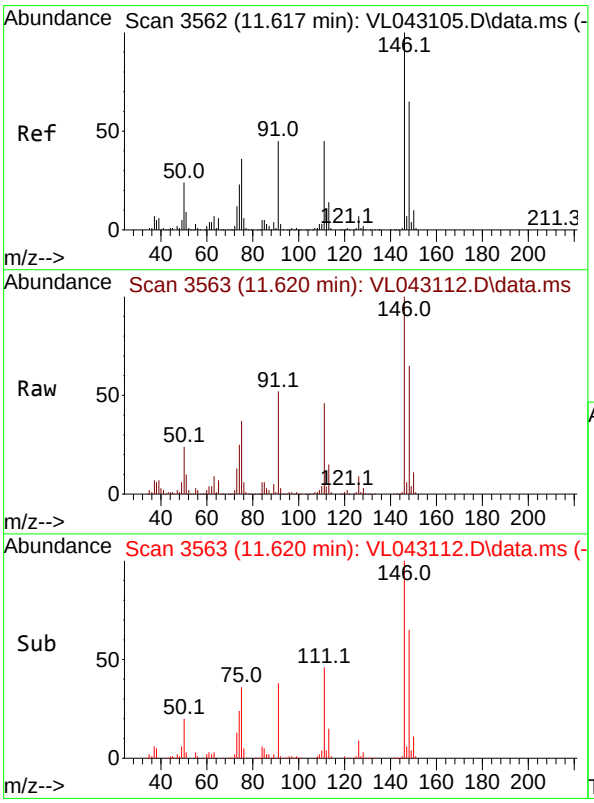
#65
tert-Butylbenzene
Concen: 8.464 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:119 Resp: 532570

Ion	Ratio	Lower	Upper
119	100		
91	81.6	63.4	95.0
134	21.6	17.3	25.9

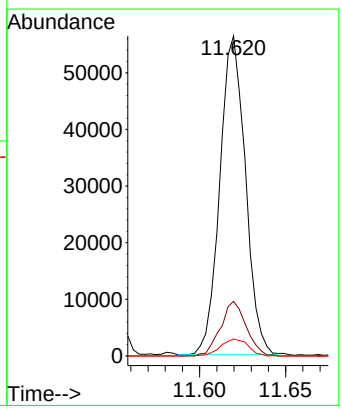


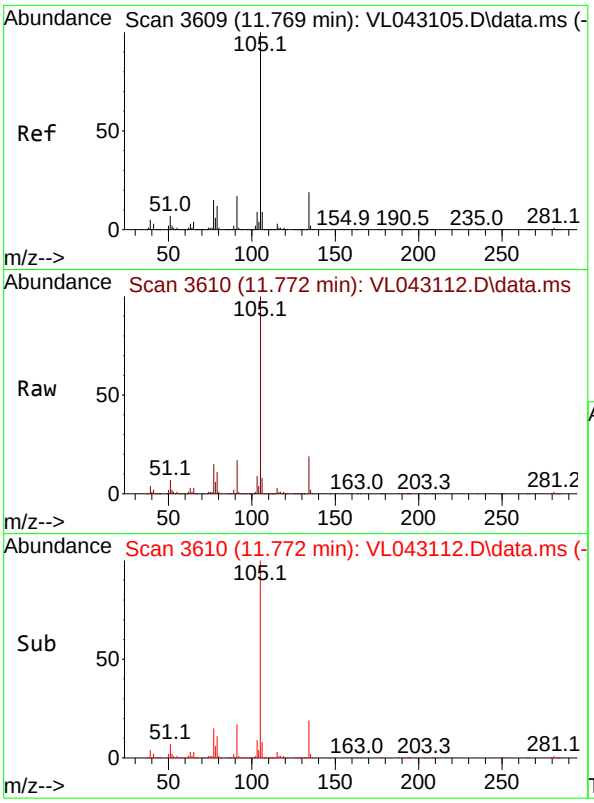


#66
Benzyl Chloride
Concen: 8.306 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 58169

Ion	Ratio	Lower	Upper
91	100		
126	17.2	14.6	22.0
128	5.8	4.6	6.8



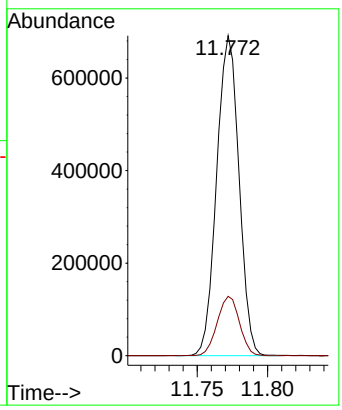


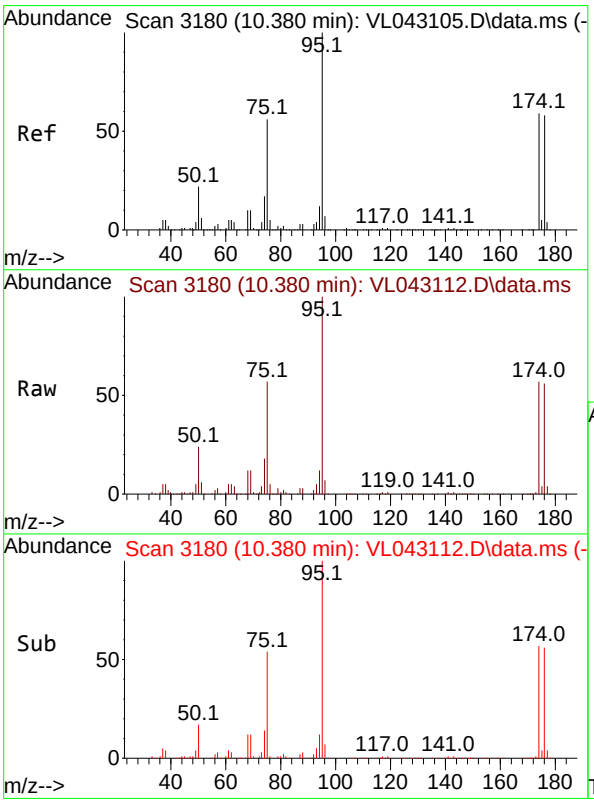
#67
sec-Butylbenzene
Concen: 8.541 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:105 Resp: 762711

Ion	Ratio	Lower	Upper
105	100		
134	18.5	15.5	23.3

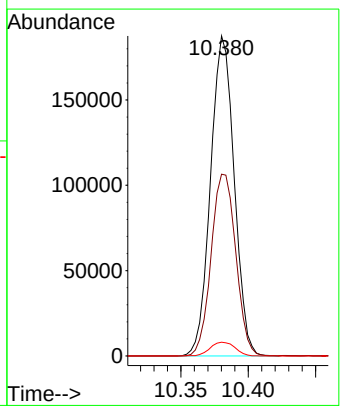


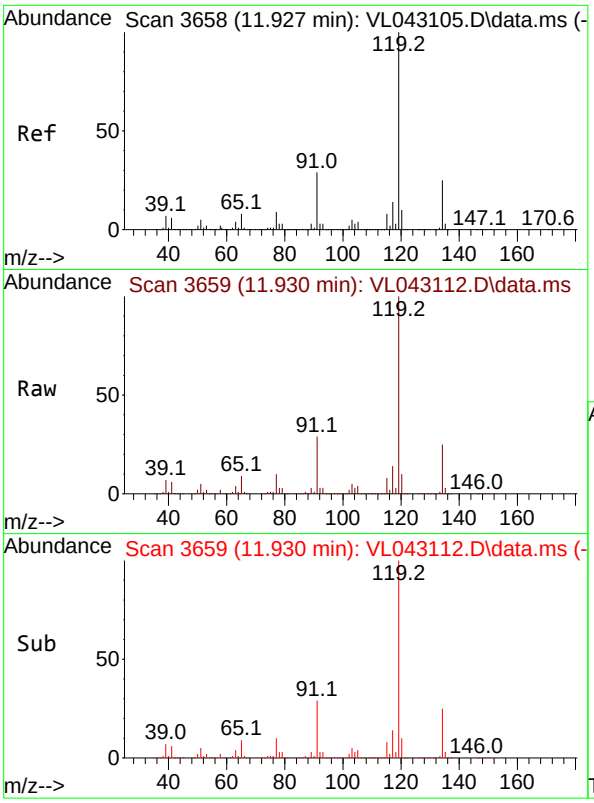


#68
1-Bromo-4-Fluorobenzene
Concen: 10.101 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 95 Resp: 229010

Ion	Ratio	Lower	Upper
95	100		
174	59.2	48.3	72.5
175	4.6	3.8	5.8



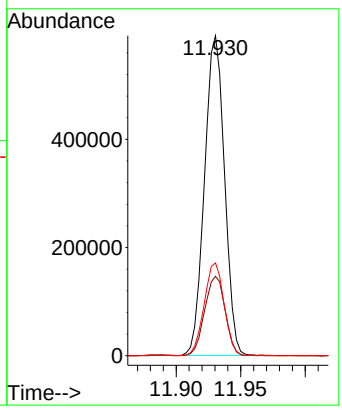


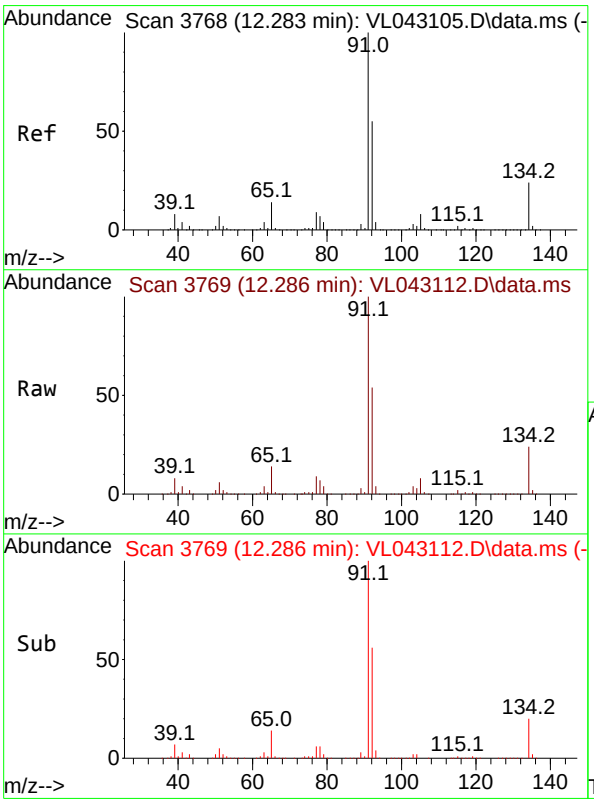
#69
p-Isopropyltoluene
Concen: 8.411 ppbv
RT: 11.930 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:119 Resp: 638261

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	29.0	22.6	33.8

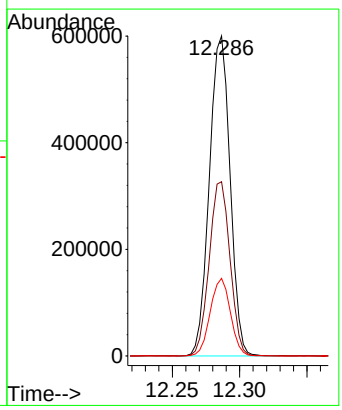


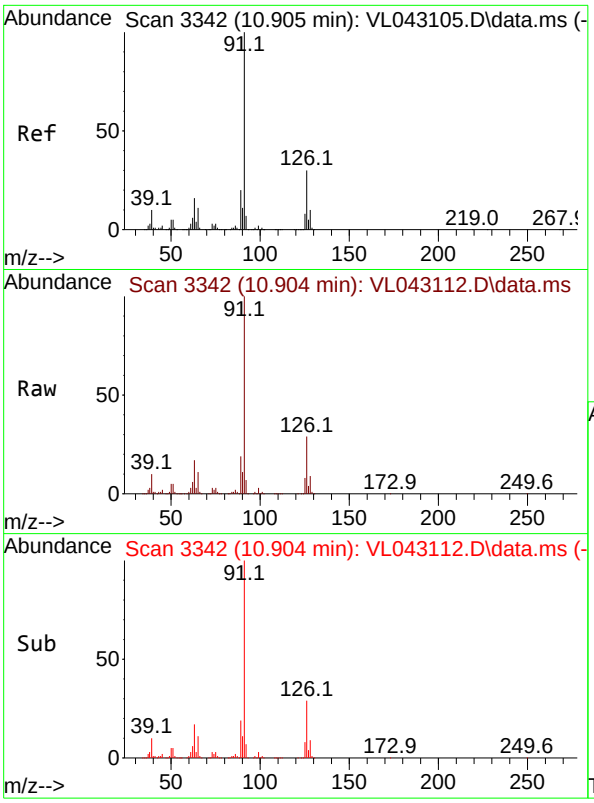


#70
n-Butylbenzene
Concen: 8.579 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 641547

Ion	Ratio	Lower	Upper
91	100		
92	54.8	44.5	66.7
134	23.7	19.3	28.9



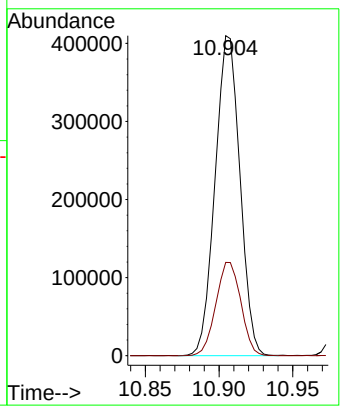


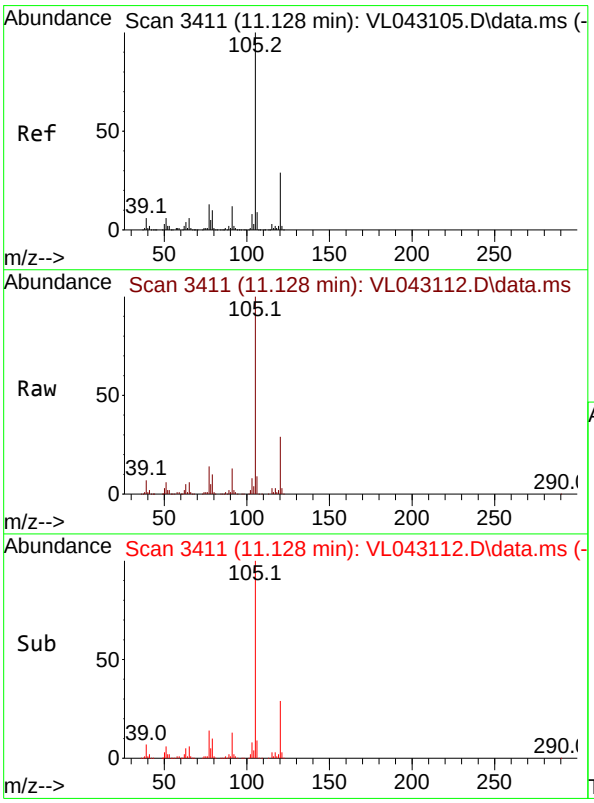
#71
2-Chlorotoluene
Concen: 8.828 ppbv
RT: 10.904 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion: 91 Resp: 479799

Ion	Ratio	Lower	Upper
91	100		
126	29.3	12.0	48.0

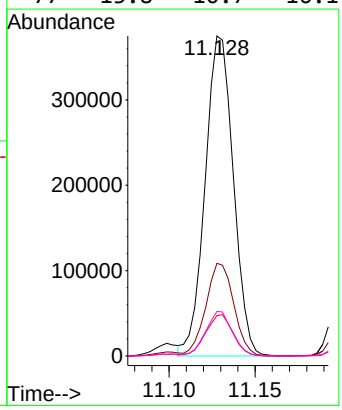


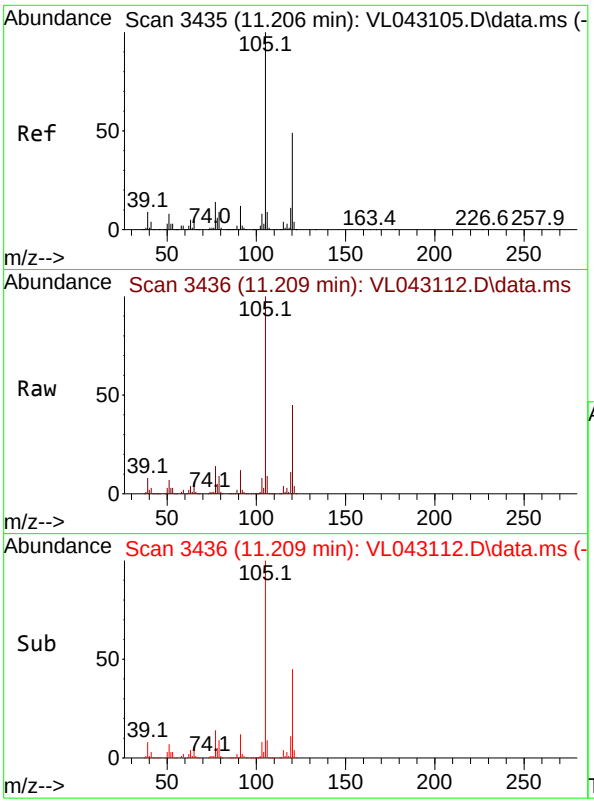


#72
4-Ethyltoluene
Concen: 8.807 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 427034

Ion	Ratio	Lower	Upper
105	100		
120	29.8	24.2	36.4
91	13.1	10.0	15.0
77	13.8	10.7	16.1



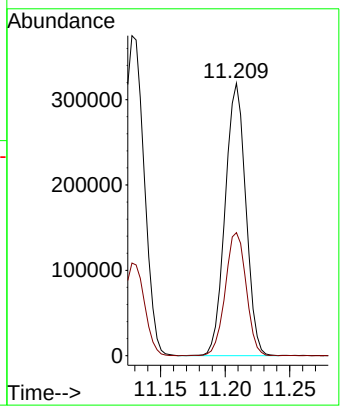


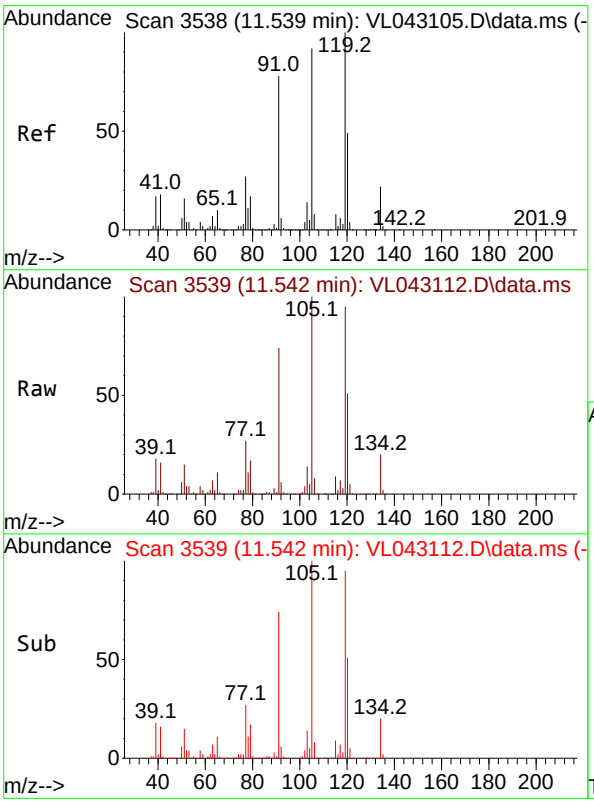
#73
1,3,5-Trimethylbenzene
Concen: 8.874 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:105 Resp: 354875

Ion	Ratio	Lower	Upper
105	100		
120	45.2	39.0	58.6

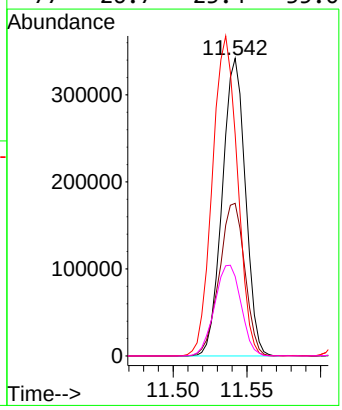


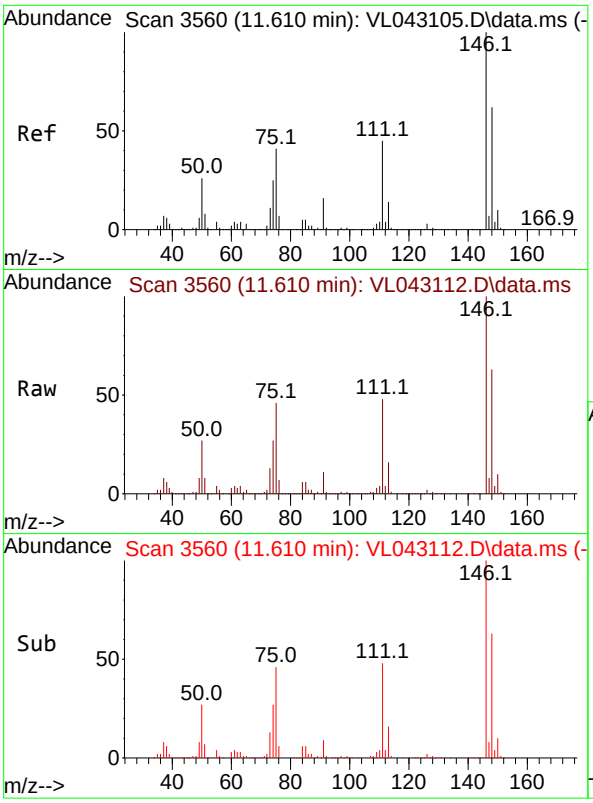


#74
1,2,4-Trimethylbenzene
Concen: 8.324 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 372506

Ion	Ratio	Lower	Upper
105	100		
120	51.3	42.8	64.2
91	74.4	68.3	102.5
77	26.7	23.4	35.0



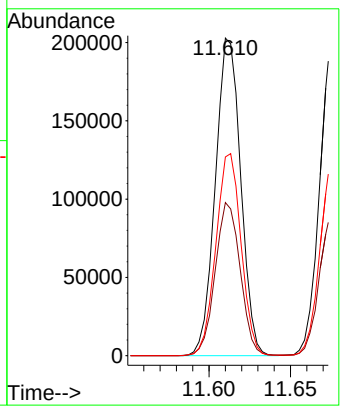


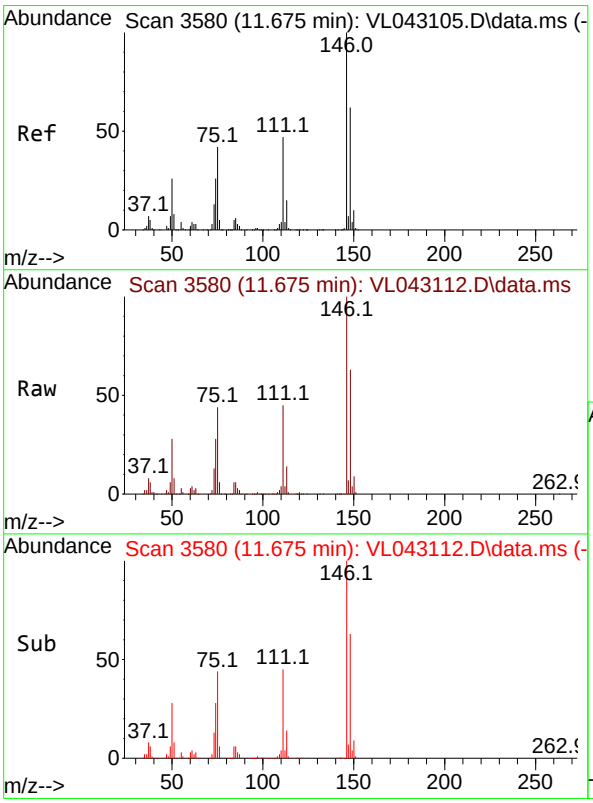
#75
1,3-Dichlorobenzene
Concen: 8.454 ppbv
RT: 11.610 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:146 Resp: 219423

Ion	Ratio	Lower	Upper
146	100		
111	47.6	23.3	69.9
148	63.3	31.6	95.0

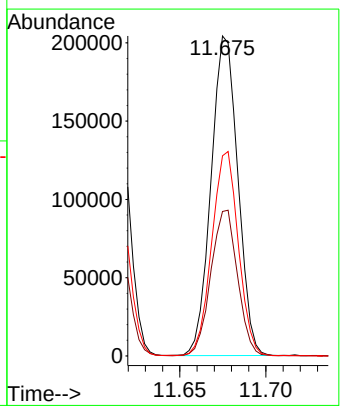


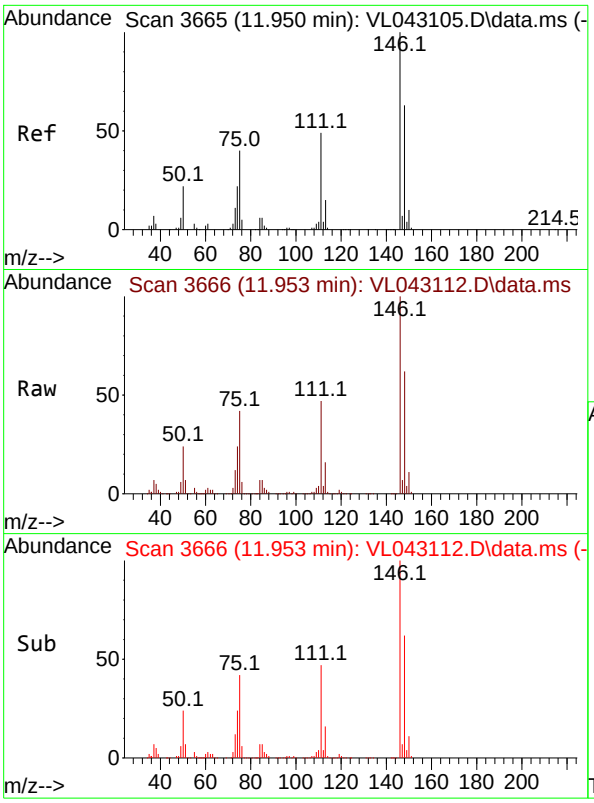


#76
1,4-Dichlorobenzene
Concen: 8.458 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:146 Resp: 221364

Ion	Ratio	Lower	Upper
146	100		
111	45.7	22.4	67.0
148	63.6	31.6	94.7



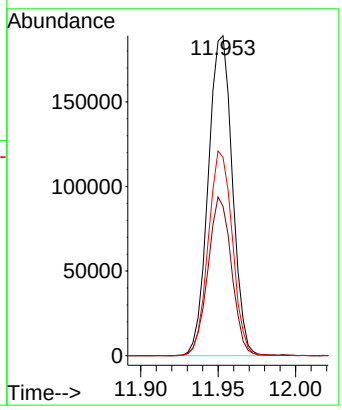


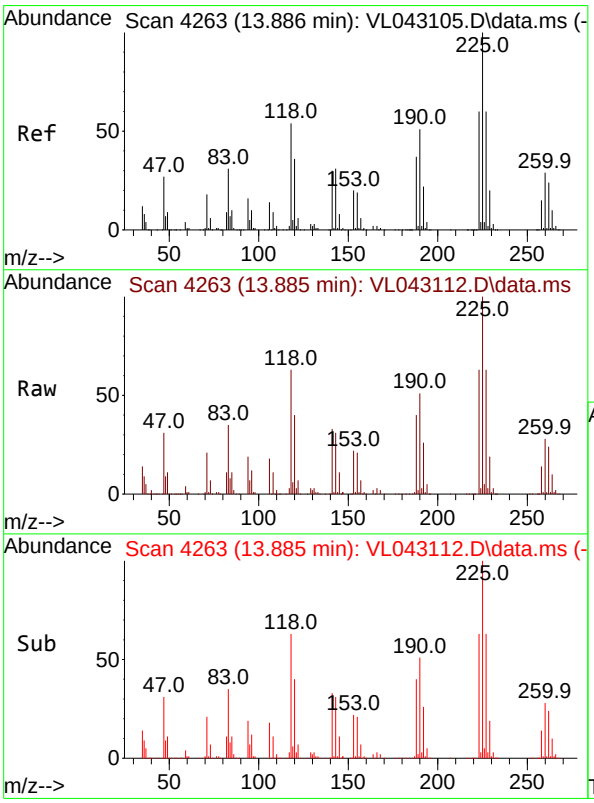
#77
1,2-Dichlorobenzene
Concen: 8.132 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:146 Resp: 204178

Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.0	72.0
148	64.1	31.1	93.3

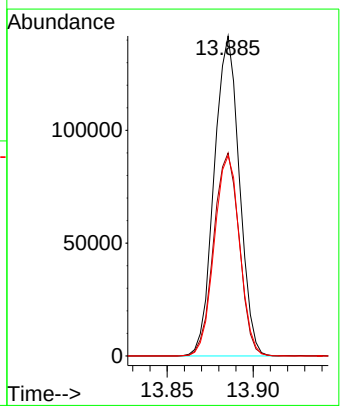


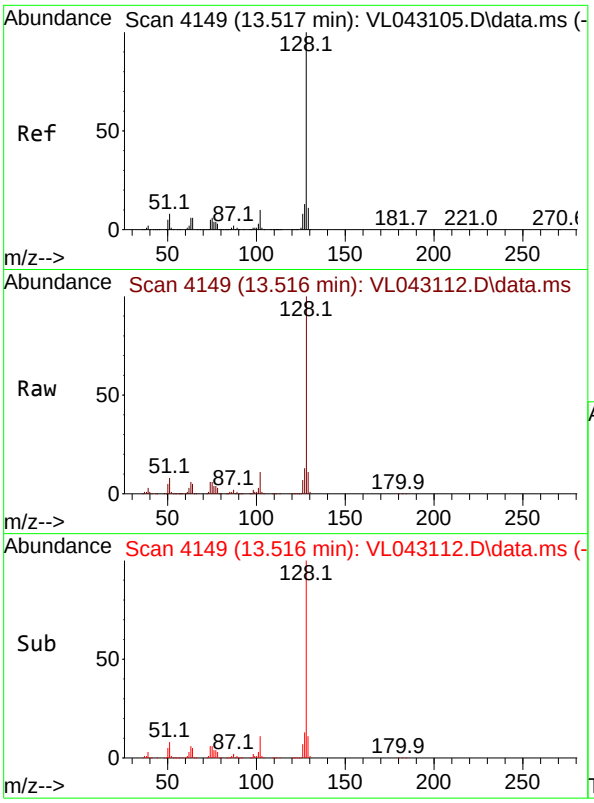


#78
Hexachloro-1,3-Butadiene
Concen: 7.440 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:225 Resp: 144646

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.2	75.4
227	62.9	49.6	74.4



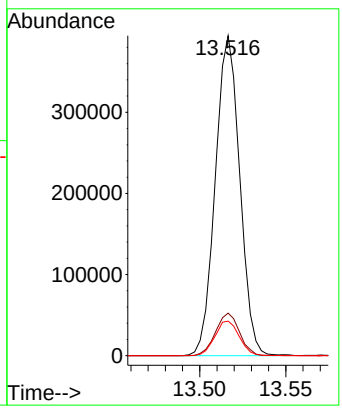


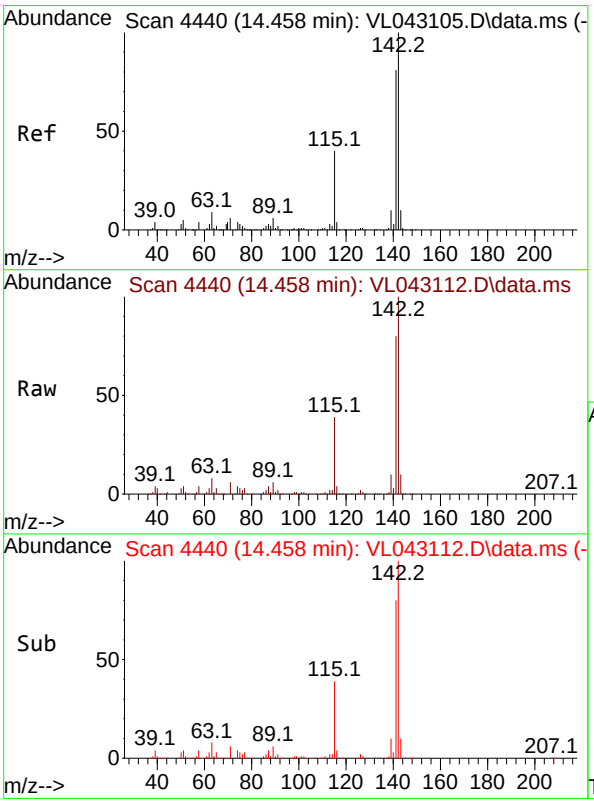
#79
Naphthalene
Concen: 8.334 ppbv
RT: 13.516 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:128 Resp: 389814

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	10.8	9.1	13.7

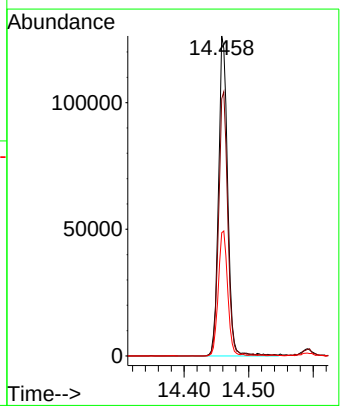


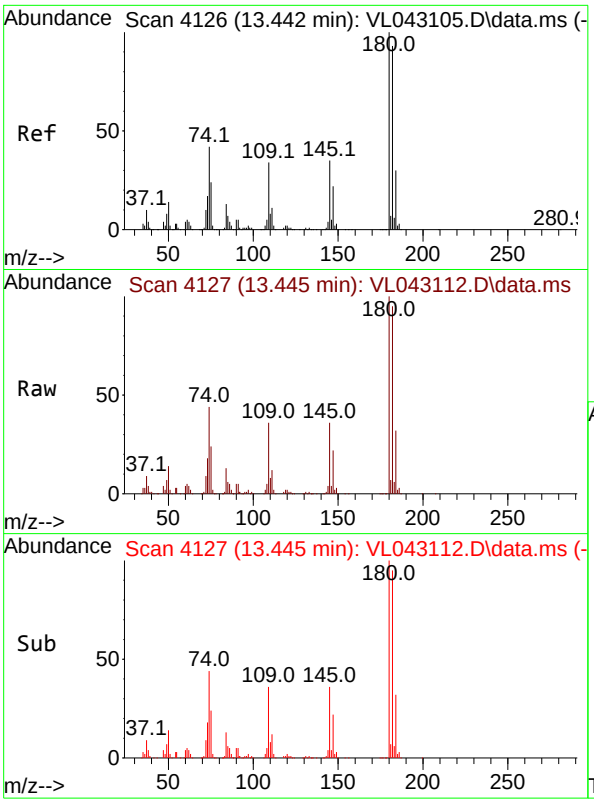


#80
Naphthalene,2-methyl-
Concen: 10.146 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Tgt Ion:142 Resp: 123632

Ion	Ratio	Lower	Upper
142	100		
141	83.1	64.6	97.0
115	40.3	30.2	45.4



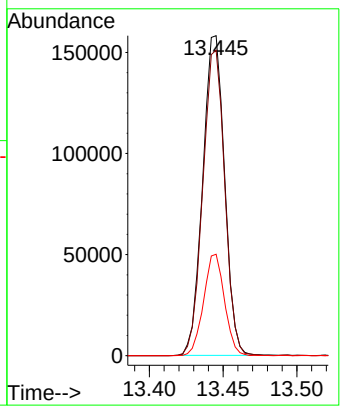


#81
1,2,4-Trichlorobenzene
Concen: 8.373 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043112.D
Acq: 14 Oct 2025 14:51

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101425

Tgt Ion:180 Resp: 162553

Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.5	113.3
184	30.4	23.9	35.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043191.D
Acq On : 13 Nov 2025 09:01
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Nov 14 04:35:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.794	49	141757	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.969	114	379323	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.891	117	324654	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.384	95	262602	10.406	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	186958	9.277	ppbv		98
3) Chlorodifluoromethane	1.480	51	207578	9.520	ppbv		99
4) Chloromethane	1.538	50	66004	8.267	ppbv		100
5) Vinyl Chloride	1.586	62	65529	8.368	ppbv		97
6) Bromomethane	1.674	94	38785	9.032	ppbv		97
7) Chloroethane	1.709	64	26067	8.142	ppbv		98
8) Dichlorotetrafluoroethane	1.560	85	149728	9.192	ppbv		92
9) Propene	1.489	41	79350	8.205	ppbv		99
10) Heptane	4.995	43	257113	9.235	ppbv		98
11) Trichlorofluoromethane	1.884	101	203965	10.347	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.146	101	157214	9.906	ppbv		96
13) Ethanol	1.726	45	22877	6.395	ppbv		95
14) Bromoethene	1.787	108	55856	9.474	ppbv		99
15) Acetone	1.839	43	157089	8.222	ppbv		100
16) 1,3-Butadiene	1.612	39	71284	7.828	ppbv		100
17) tert-Butyl alcohol	2.043	59	212144	8.089	ppbv		99
18) 1,1-Dichloroethene	2.039	96	67616	9.773	ppbv		92
19) Isopropyl Alcohol	1.891	45	89741	7.541	ppbv		90
20) Methylene Chloride	2.069	84	61280	8.114	ppbv		97
21) Allyl Chloride	2.101	41	118968	8.450	ppbv		98
22) trans-1,2-Dichloroethene	2.347	96	77213	9.336	ppbv		97
23) Vinyl Acetate	2.467	43	288816	10.319	ppbv	#	99
24) 1,1-Dichloroethane	2.415	63	148680	9.305	ppbv		99
25) Ethyl Acetate	2.839	43	458770	9.682	ppbv		99
26) Hexane	2.836	57	208153	9.534	ppbv		99
27) Carbon Disulfide	2.156	76	192431	9.620	ppbv		100
28) Methyl tert-Butyl Ether	2.447	73	84272	8.484	ppbv		95
29) Chloroform	2.855	83	307588	9.723	ppbv		100
30) Cyclohexane	3.868	84	161792	8.490	ppbv		98
31) cis-1,2-Dichloroethene	2.729	61	192730	9.244	ppbv		99
32) 1,1,1-Trichloroethane	3.376	97	292767	8.887	ppbv		97
34) 2-Butanone	2.561	43	304449	11.940	ppbv		98
35) Carbon Tetrachloride	3.774	117	302120	11.078	ppbv		95
36) Benzene	3.668	78	394397	11.039	ppbv		97
37) 1,2-Dichloroethane	3.227	62	227409	11.049	ppbv		98
38) Trichloroethene	4.561	130	143231	9.599	ppbv		99
39) 1,2-Dichloropropane	4.328	63	147718	11.310	ppbv		97
40) 1,4-Dioxane	4.590	88	57344	9.811	ppbv	#	95
41) Tetrahydrofuran	3.059	42	152660	10.704	ppbv		96
42) Bromodichloromethane	4.499	83	321852	11.299	ppbv		99
43) Methyl Methacrylate	4.891	69	184954	10.193	ppbv		99
44) 2,2,4-Trimethylpentane	4.655	57	685708	11.376	ppbv		99
45) t-1,3-Dichloropropene	6.428	75	172223	9.458	ppbv		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043191.D
Acq On : 13 Nov 2025 09:01
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Nov 14 04:35:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

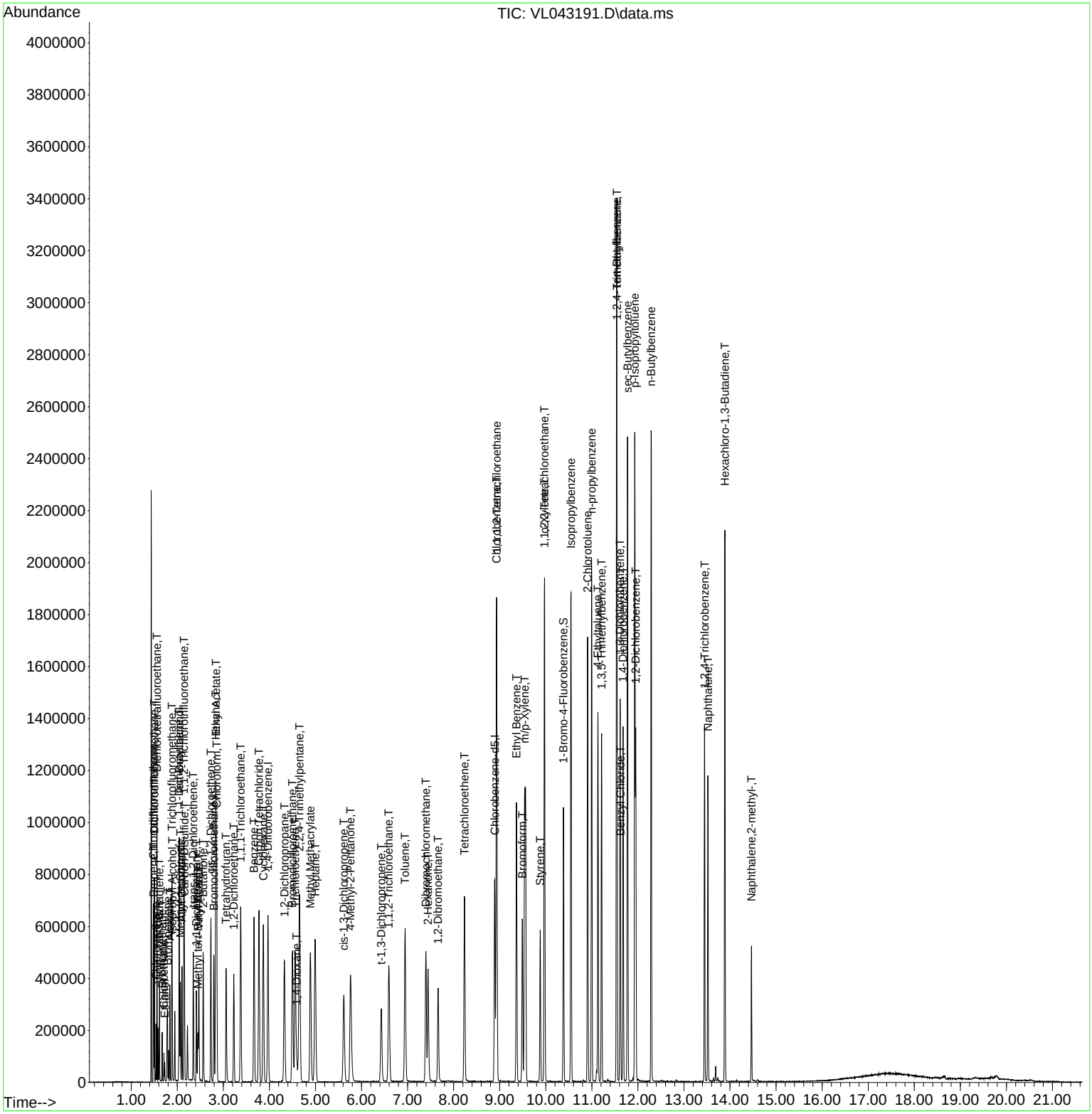
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	216380	9.947	ppbv		99
47) 1,1,2-Trichloroethane	6.590	97	154071	10.924	ppbv		97
48) Dibromochloromethane	7.396	129	253004	10.729	ppbv		100
49) Bromoform	9.493	173	223457	11.657	ppbv		100
50) 4-Methyl-2-Pentanone	5.762	43	383415	10.896	ppbv		97
51) 2-Hexanone	7.445	43	290059	10.990	ppbv	#	95
52) Tetrachloroethene	8.238	164	129582	10.058	ppbv		96
53) Toluene	6.946	91	417333	9.842	ppbv		100
54) 1,2-Dibromoethane	7.662	107	230500	10.434	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.934	131	238374	11.648	ppbv		100
57) Chlorobenzene	8.930	112	338588	11.148	ppbv		98
58) Ethyl Benzene	9.364	91	587423	10.543	ppbv		99
59) m/p-Xylene	9.542	91	544298	12.248	ppbv	#	29
60) o-Xylene	9.973	91	486760	11.090	ppbv		100
61) Styrene	9.879	104	195183	9.851	ppbv		99
62) Isopropylbenzene	10.549	105	881218	11.111	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.969	83	340692	11.592	ppbv		100
64) n-propylbenzene	10.995	120	234766	11.181	ppbv		95
65) tert-Butylbenzene	11.539	119	751341	10.727	ppbv		99
66) Benzyl Chloride	11.623	91	66547	8.537	ppbv		100
67) sec-Butylbenzene	11.775	105	1102574	11.092	ppbv		100
69) p-Isopropyltoluene	11.934	119	898238	10.634	ppbv		99
70) n-Butylbenzene	12.287	91	919213	11.043	ppbv		100
71) 2-Chlorotoluene	10.908	91	665438	11.000	ppbv		100
72) 4-Ethyltoluene	11.131	105	610233	11.307	ppbv		99
73) 1,3,5-Trimethylbenzene	11.212	105	498832	11.207	ppbv		97
74) 1,2,4-Trimethylbenzene	11.546	105	550086	11.044	ppbv		88
75) 1,3-Dichlorobenzene	11.613	146	340928	11.801	ppbv		98
76) 1,4-Dichlorobenzene	11.678	146	335522	11.518	ppbv		98
77) 1,2-Dichlorobenzene	11.953	146	324755	11.620	ppbv		98
78) Hexachloro-1,3-Butadiene	13.889	225	225968	10.443	ppbv		99
79) Naphthalene	13.520	128	543024	10.430	ppbv		99
80) Naphthalene,2-methyl-	14.465	142	133878	9.870	ppbv		99
81) 1,2,4-Trichlorobenzene	13.449	180	230586	10.671	ppbv		99

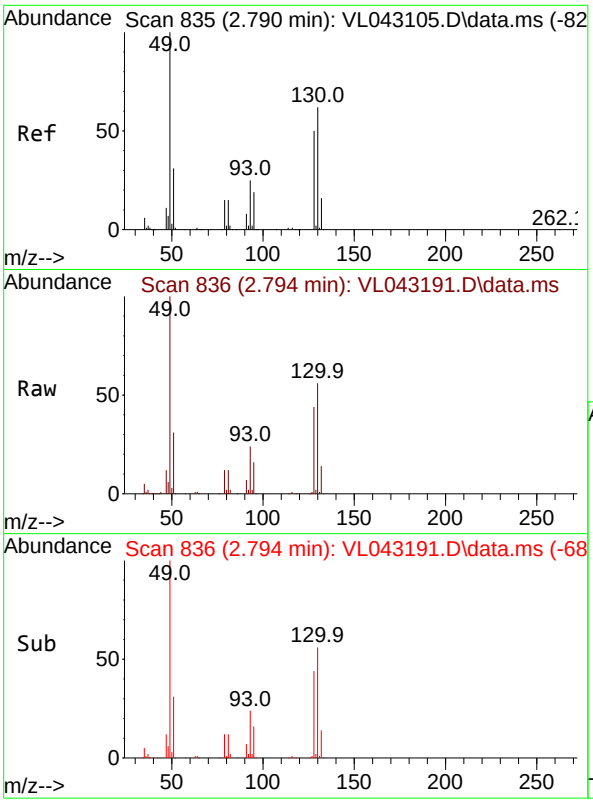
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043191.D
Acq On : 13 Nov 2025 09:01
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Nov 14 04:35:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



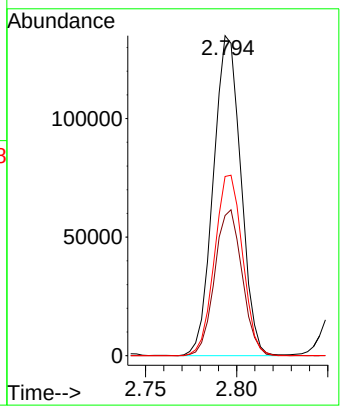


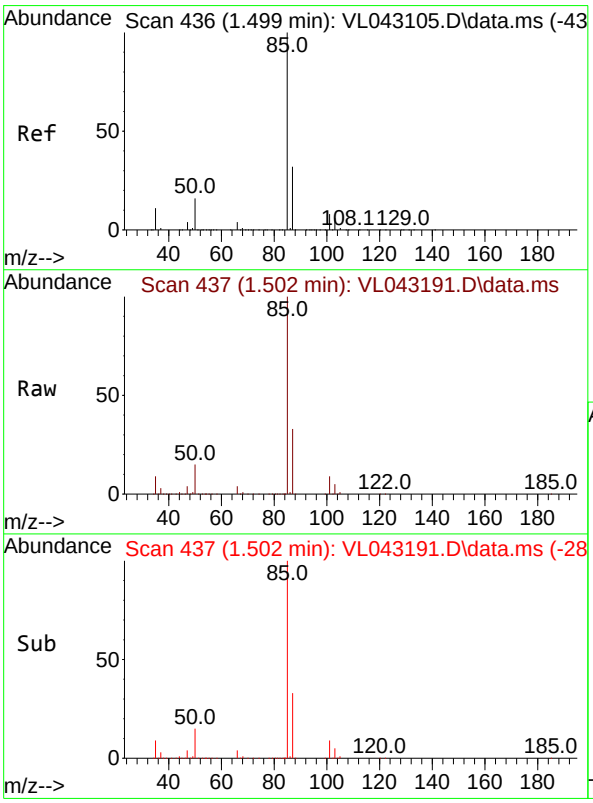
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 141757

Ion	Ratio	Lower	Upper
49	100		
128	45.6	24.4	73.4
130	57.5	31.0	93.0

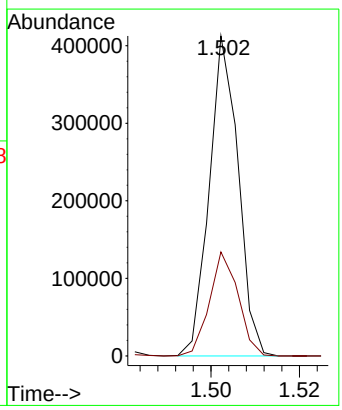


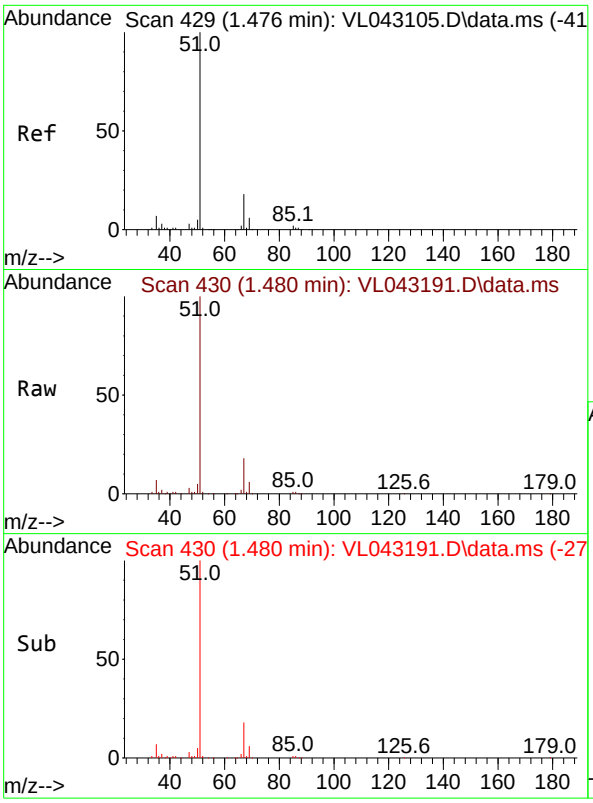


#2
Dichlorodifluoromethane
Concen: 9.277 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 85 Resp: 186958

Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.3	37.9



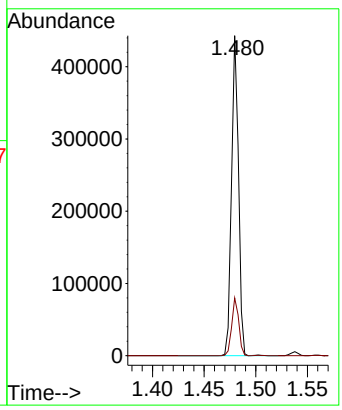


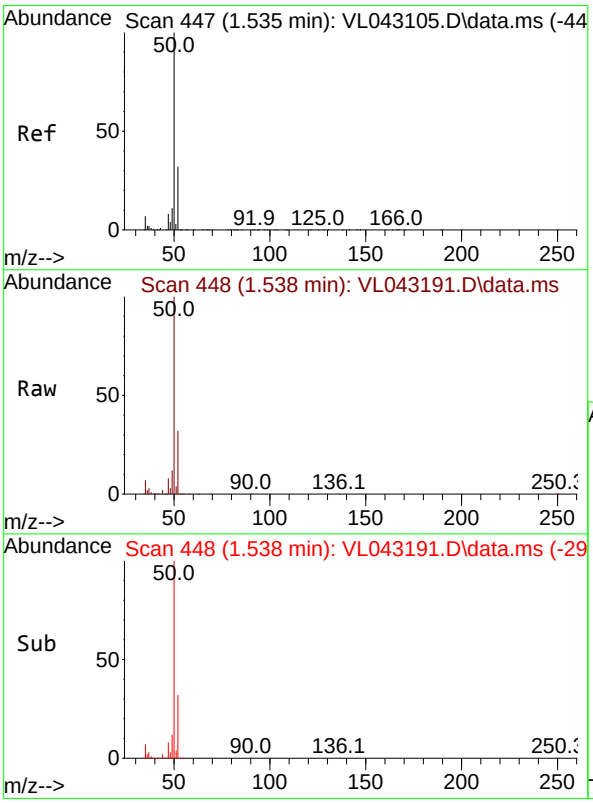
#3
Chlorodifluoromethane
Concen: 9.520 ppbv
RT: 1.480 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 207578

Ion	Ratio	Lower	Upper
51	100		
67	18.3	15.1	22.7

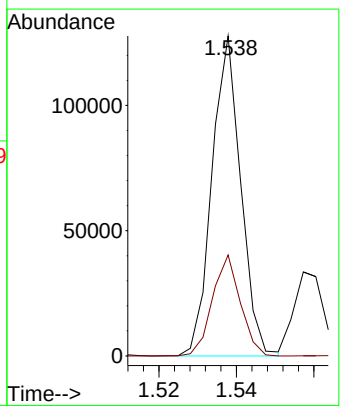


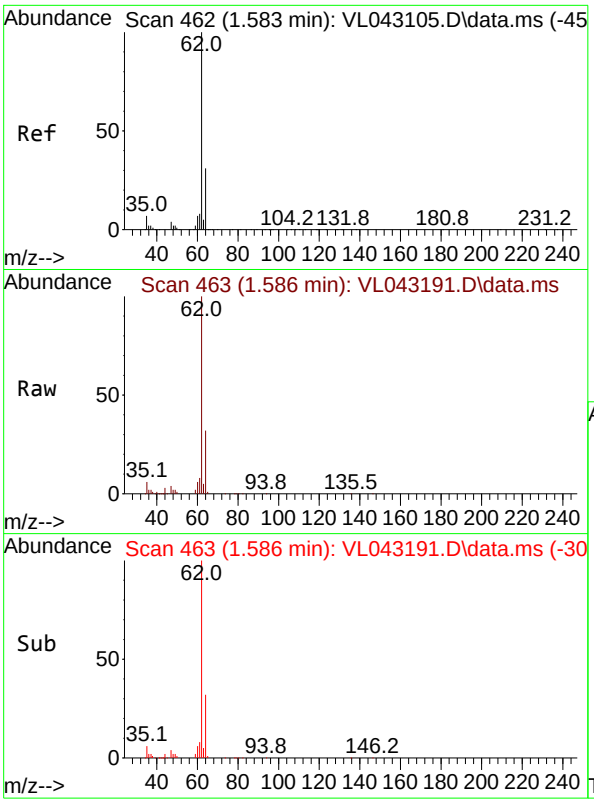


#4
Chloromethane
Concen: 8.267 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 50 Resp: 66004

Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.2	37.8



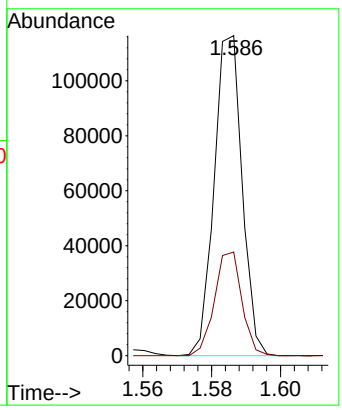


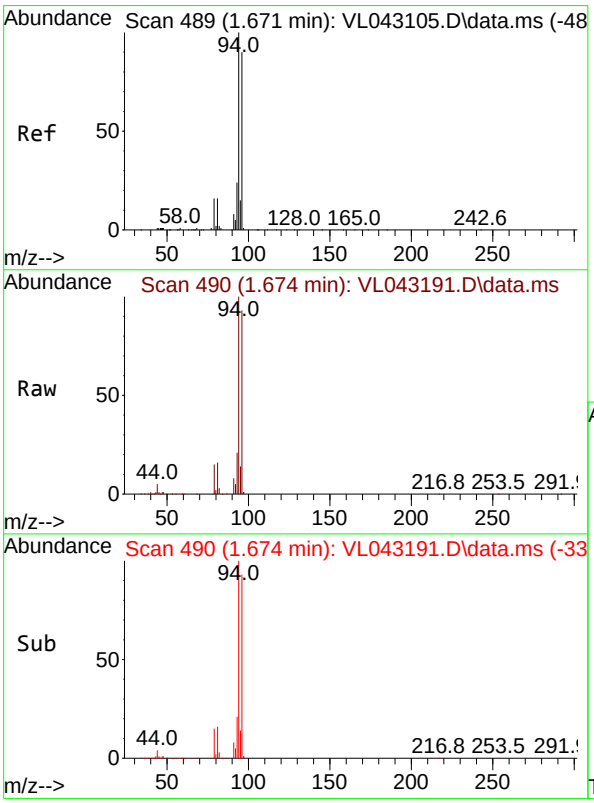
#5
Vinyl Chloride
Concen: 8.368 ppbv
RT: 1.586 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 65529

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.6	36.8

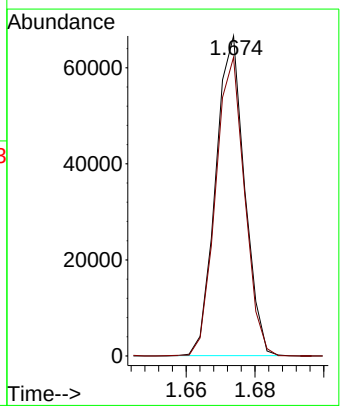


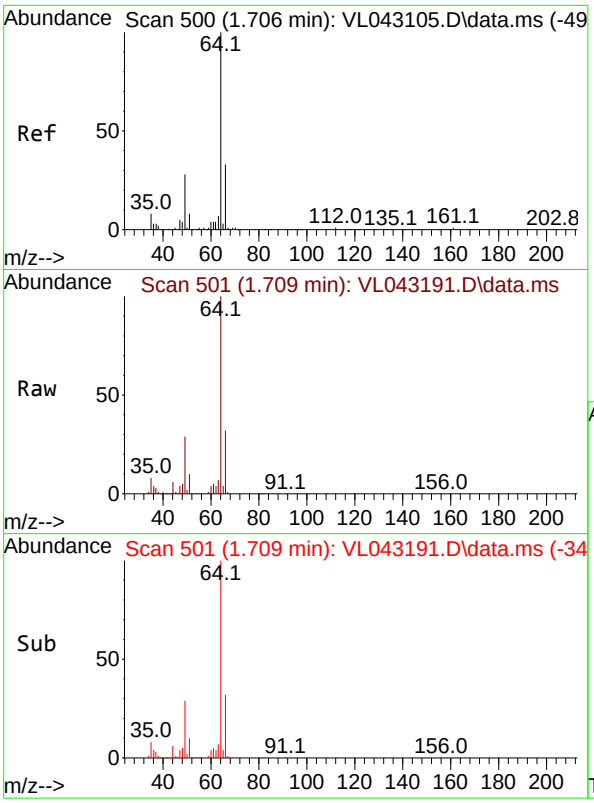


#6
Bromomethane
Concen: 9.032 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 94 Resp: 38785

Ion	Ratio	Lower	Upper
94	100		
96	93.4	72.2	108.4



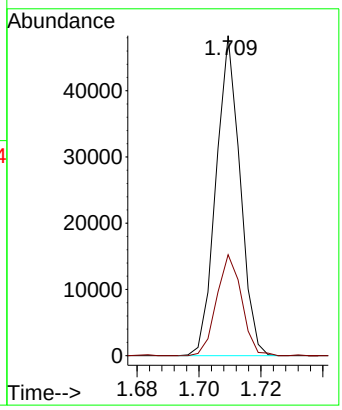


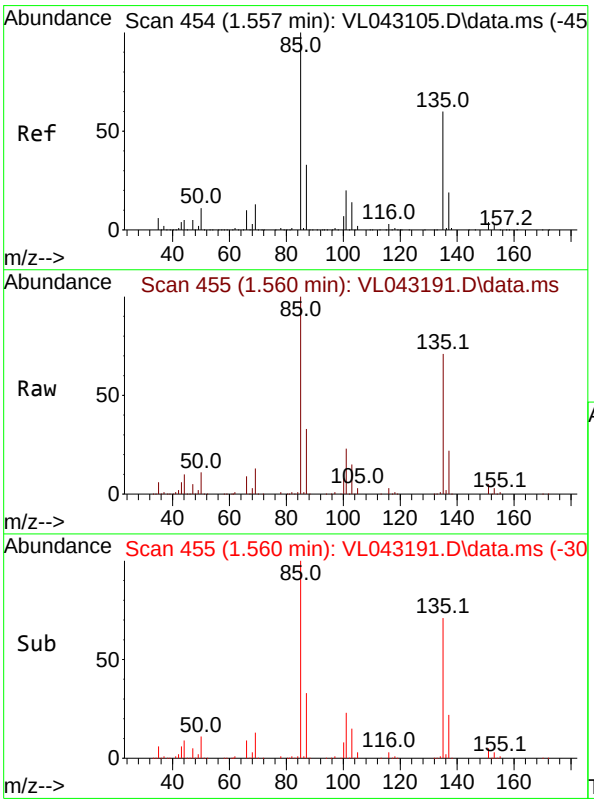
#7
Chloroethane
Concen: 8.142 ppbv
RT: 1.709 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 26067

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.0	39.0

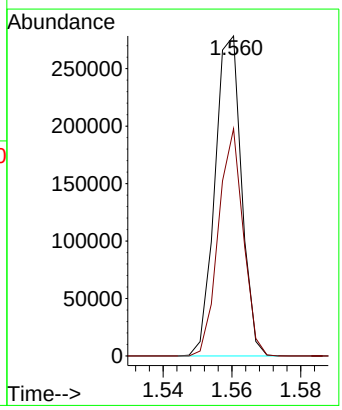


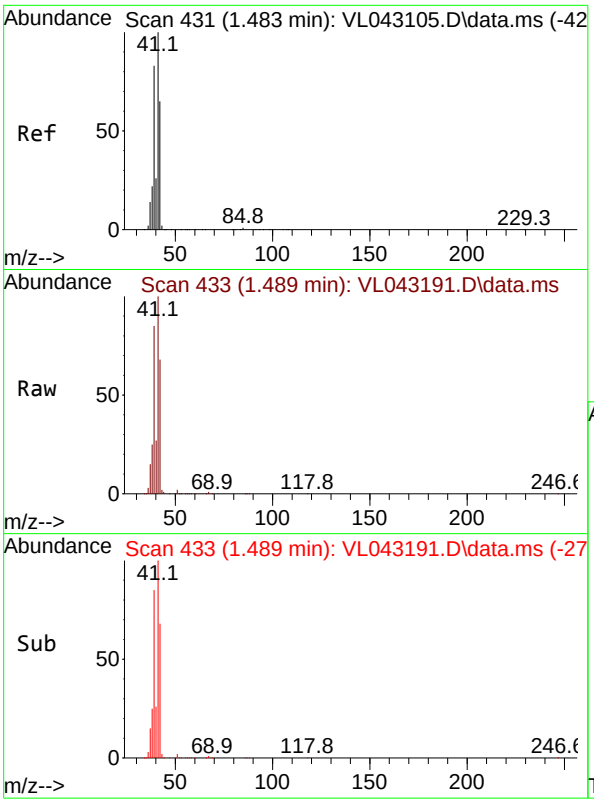


#8
Dichlorotetrafluoroethane
Concen: 9.192 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 85 Resp: 149728

Ion	Ratio	Lower	Upper
85	100		
135	66.2	48.2	72.4



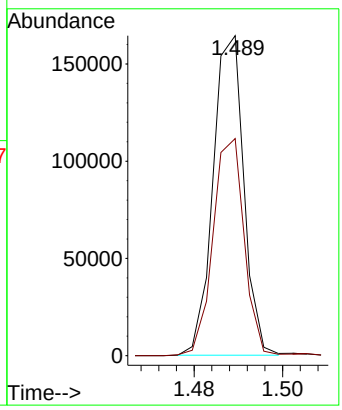


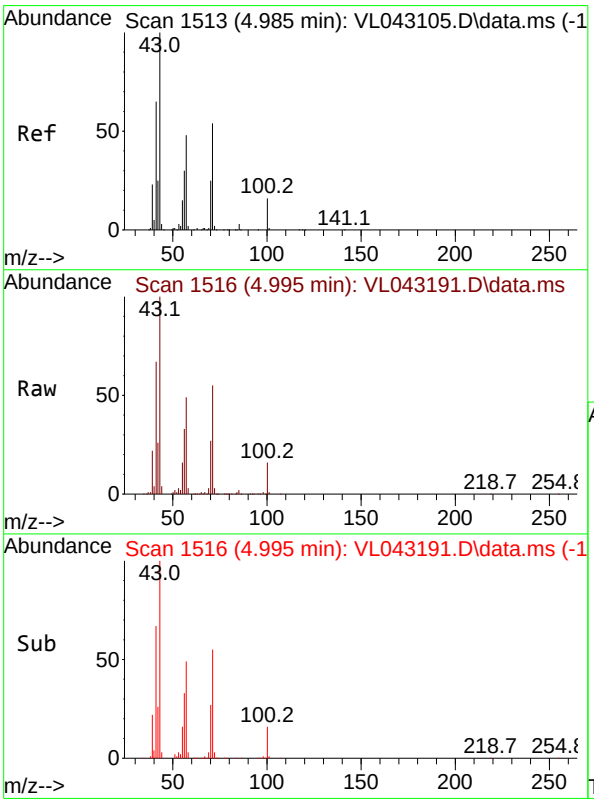
#9
Propene
Concen: 8.205 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 79350

Ion	Ratio	Lower	Upper
41	100		
42	69.7	55.1	82.7

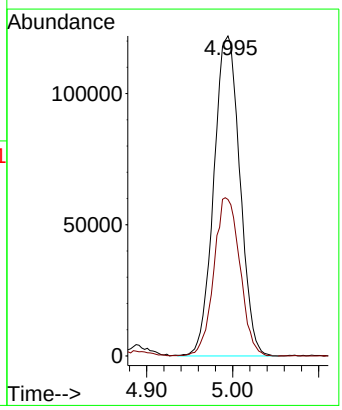


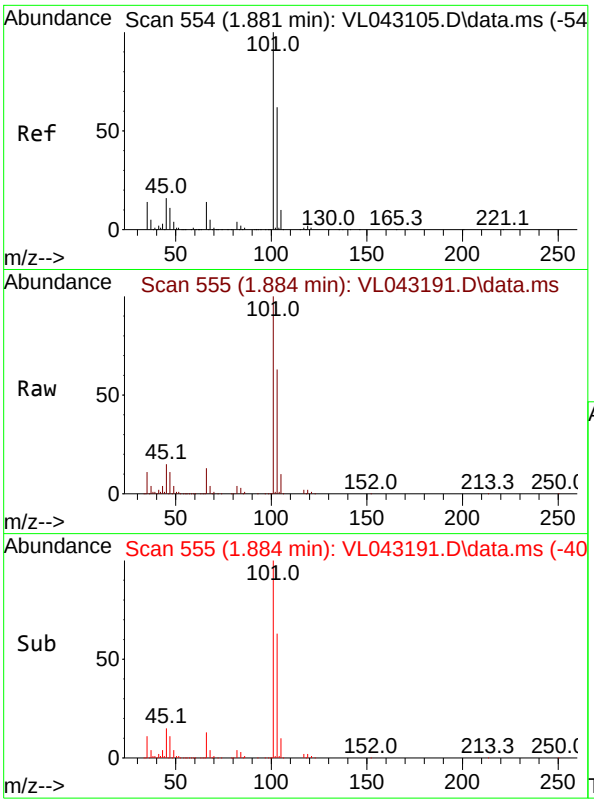


#10
Heptane
Concen: 9.235 ppbv
RT: 4.995 min Scan# 1516
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 43 Resp: 257113

Ion	Ratio	Lower	Upper
43	100		
57	49.3	40.8	61.2



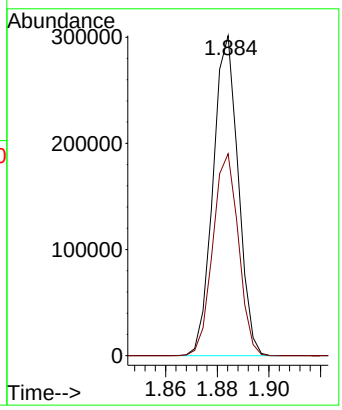


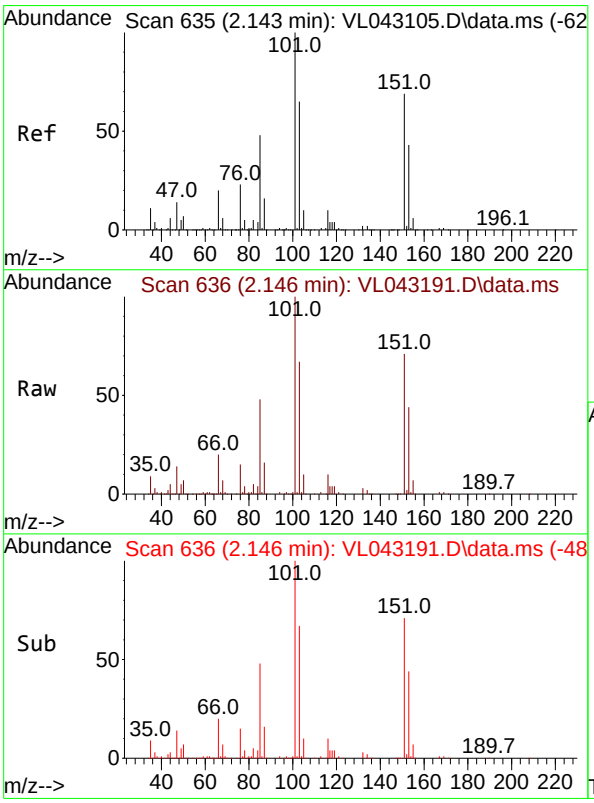
#11
Trichlorofluoromethane
Concen: 10.347 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 203965

Ion	Ratio	Lower	Upper
101	100		
103	63.1	49.3	73.9

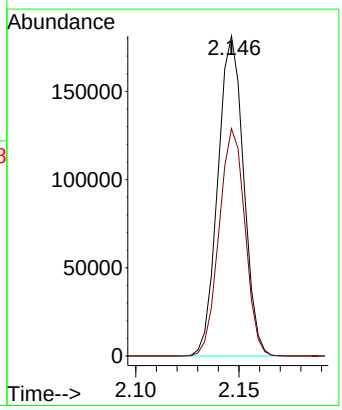


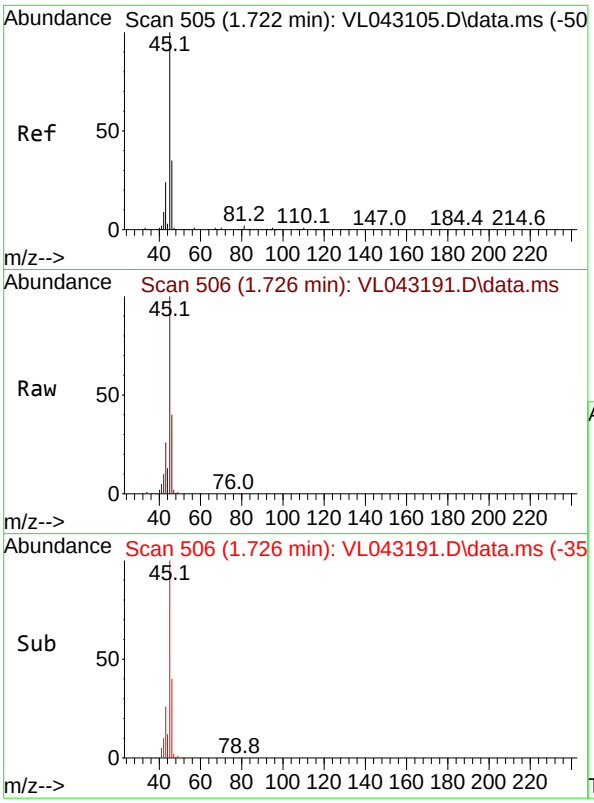


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.906 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:101 Resp: 157214

Ion	Ratio	Lower	Upper
101	100		
151	71.3	54.7	82.1



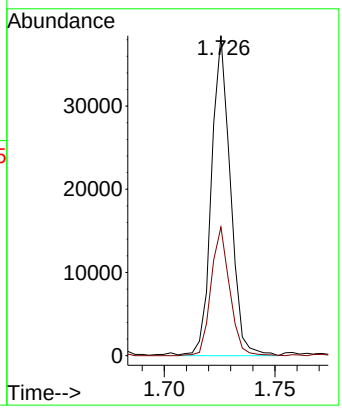


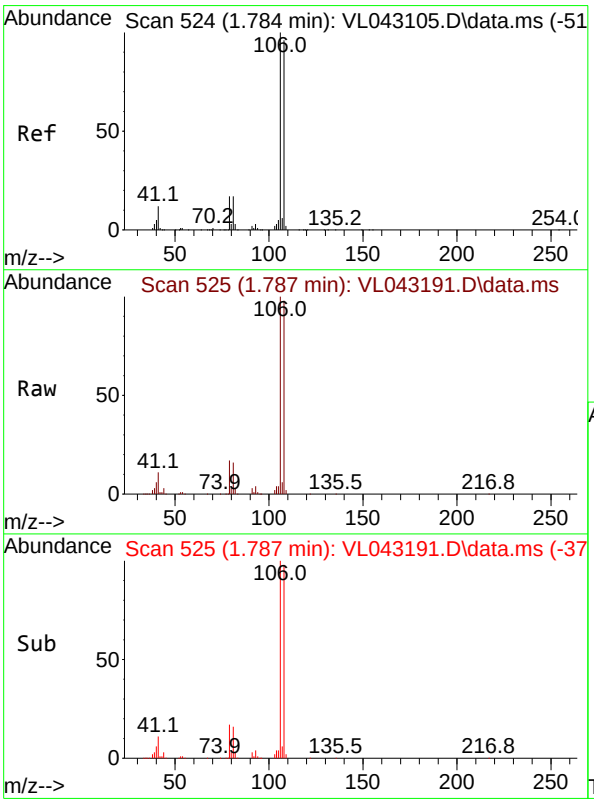
#13
Ethanol
Concen: 6.395 ppbv
RT: 1.726 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 22877

Ion	Ratio	Lower	Upper
45	100		
46	40.0	14.7	58.9

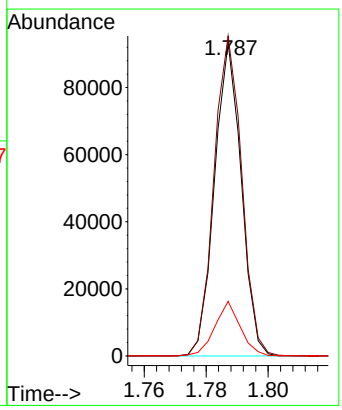


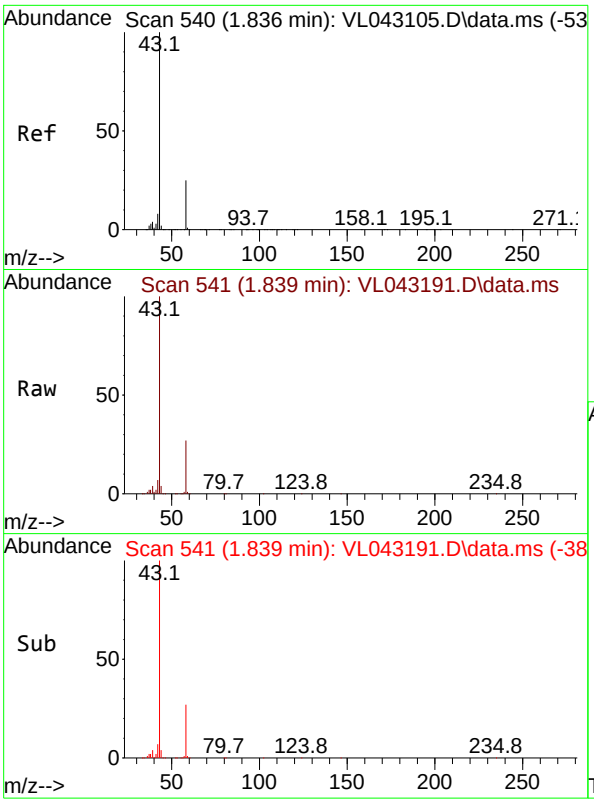


#14
Bromoethene
Concen: 9.474 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:108 Resp: 55856

Ion	Ratio	Lower	Upper
108	100		
106	105.7	84.4	126.6
79	17.0	15.3	22.9



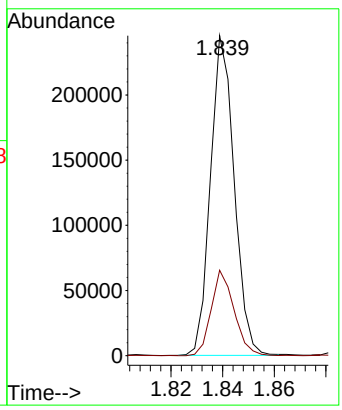


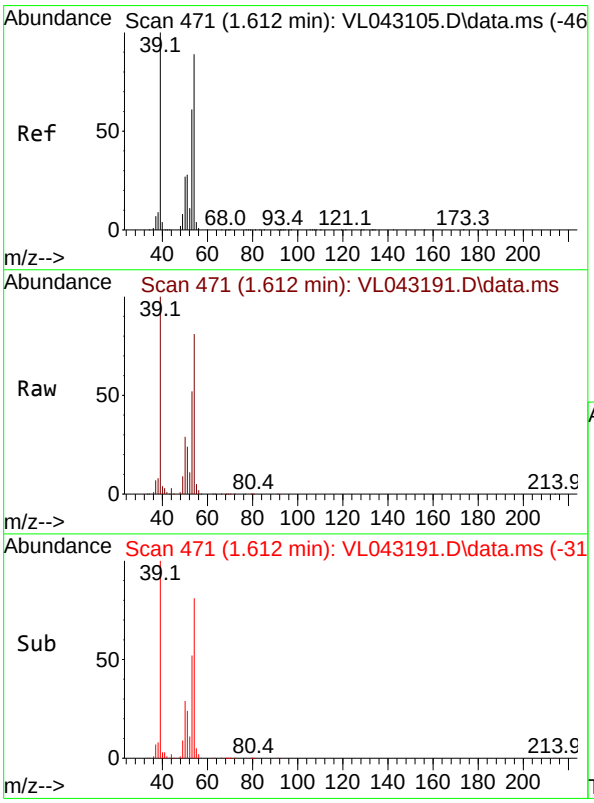
#15
Acetone
Concen: 8.222 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 157089

Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.8	31.2

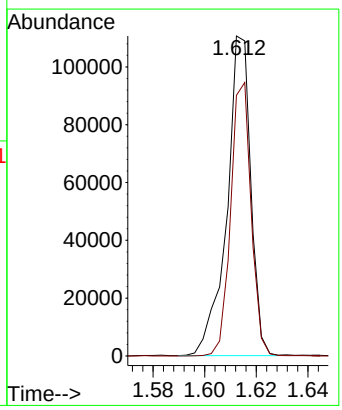


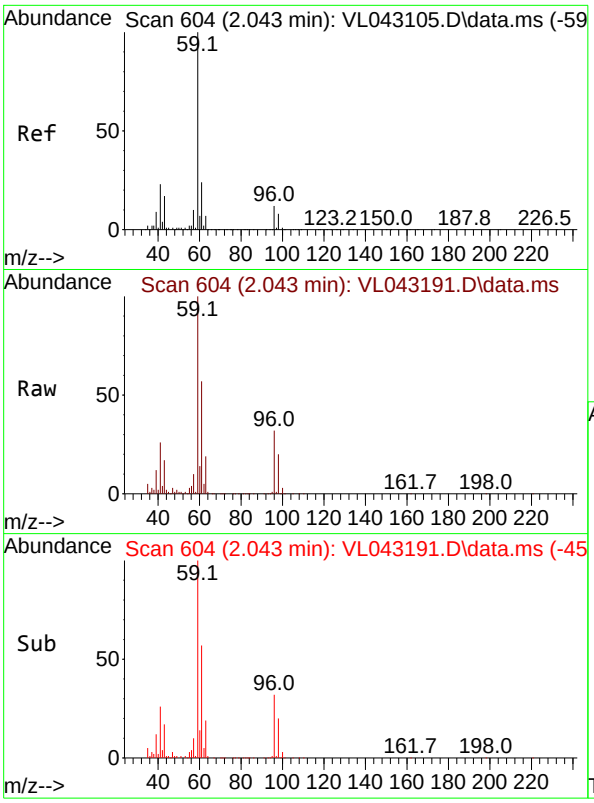


#16
1,3-Butadiene
Concen: 7.828 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 39 Resp: 71284

Ion	Ratio	Lower	Upper
39	100		
54	73.4	59.0	88.4



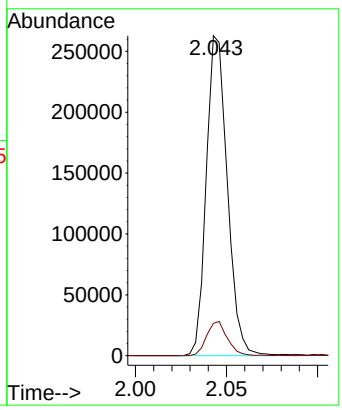


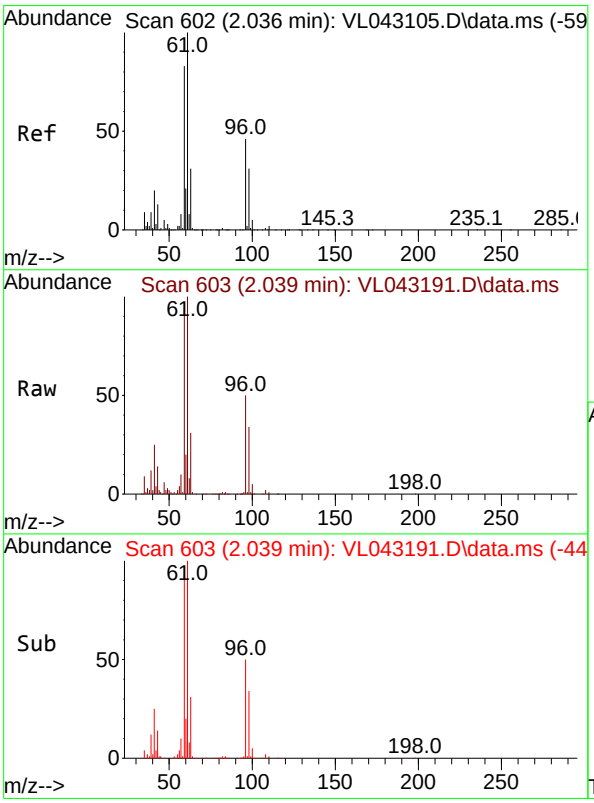
#17
tert-Butyl alcohol
Concen: 8.089 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 212144

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.2	12.4

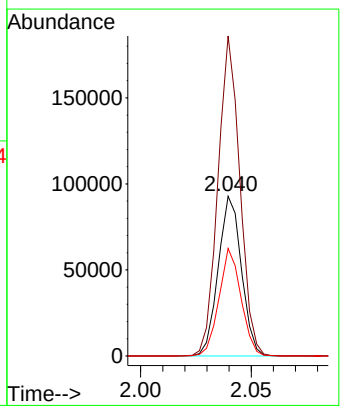


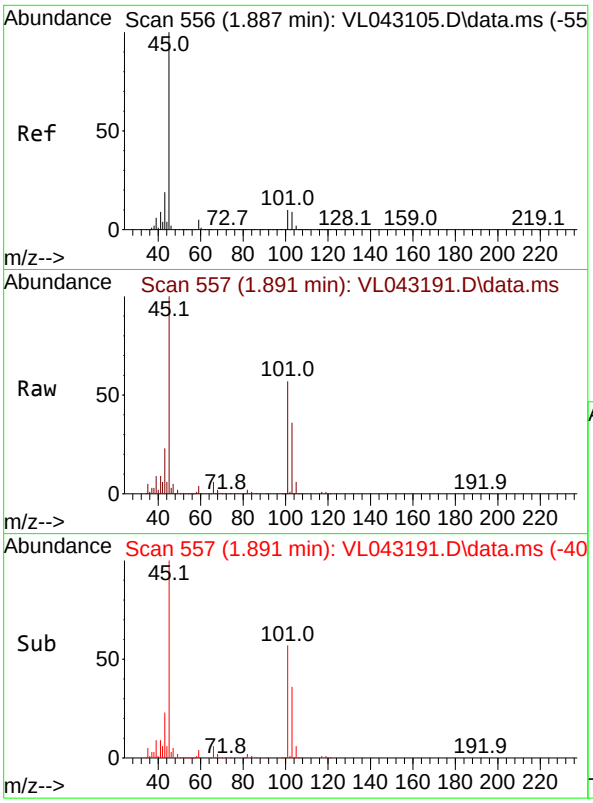


#18
1,1-Dichloroethene
Concen: 9.773 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 96 Resp: 67616

Ion	Ratio	Lower	Upper
96	100		
61	200.3	173.4	260.0
98	67.3	53.2	79.8



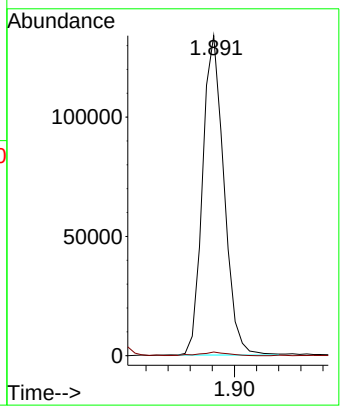


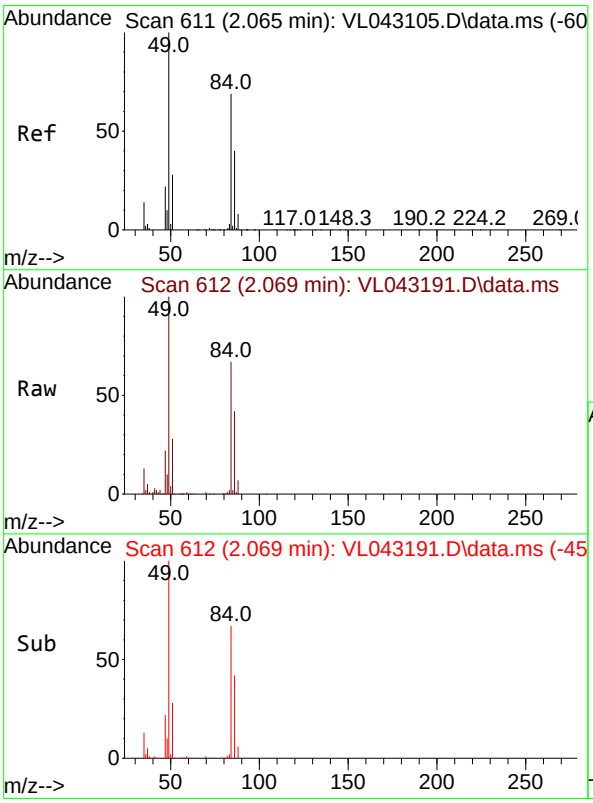
#19
Isopropyl Alcohol
Concen: 7.541 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 89741

Ion	Ratio	Lower	Upper
45	100		
58	45.2	31.3	46.9

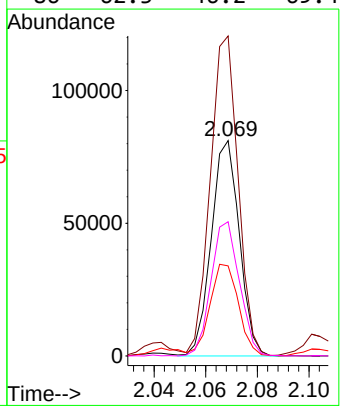


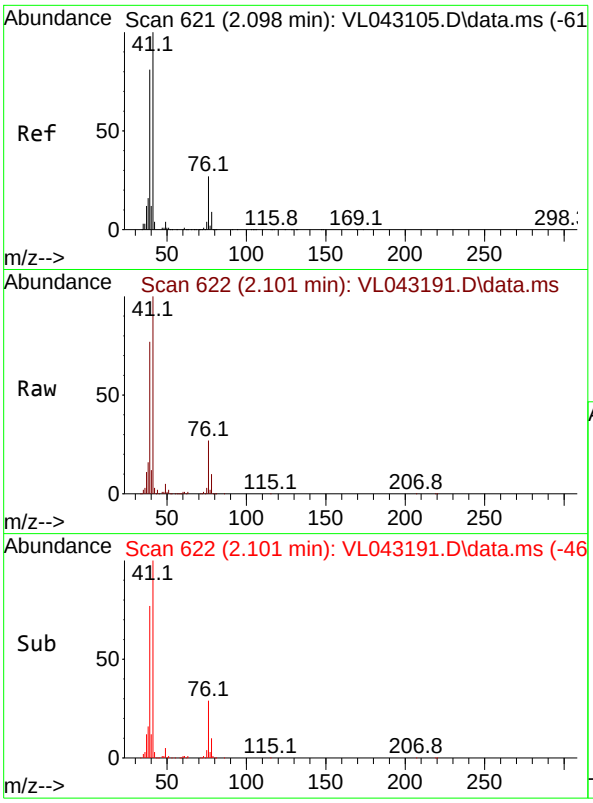


#20
Methylene Chloride
Concen: 8.114 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 84 Resp: 61280

Ion	Ratio	Lower	Upper
84	100		
49	148.2	116.6	175.0
51	41.6	34.8	52.2
86	62.3	46.2	69.4



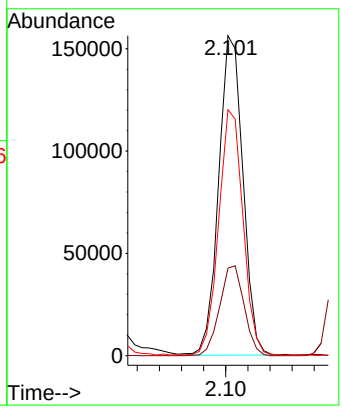


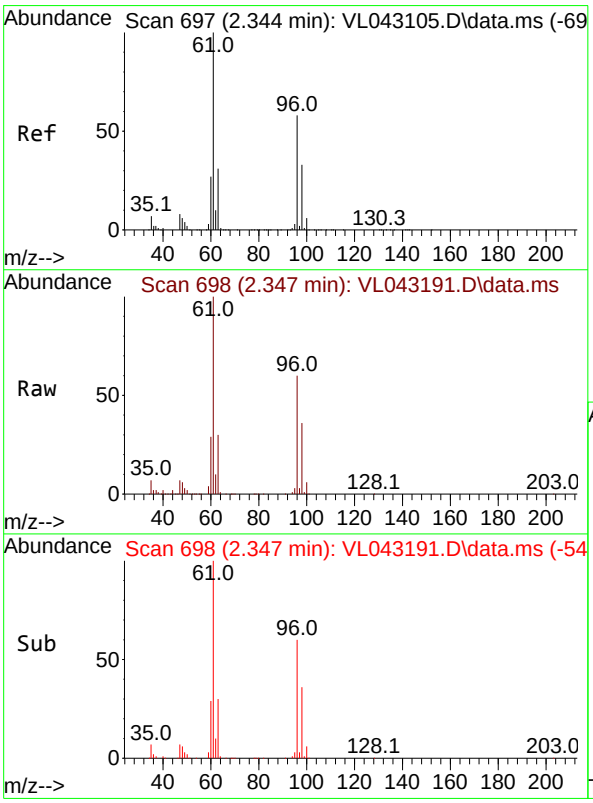
#21
Allyl Chloride
Concen: 8.450 ppbv
RT: 2.101 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 118968

Ion	Ratio	Lower	Upper
41	100		
76	28.4	21.5	32.3
39	77.2	60.8	91.2

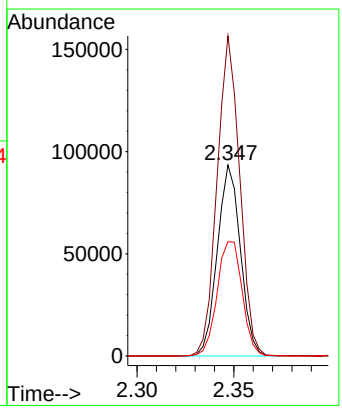


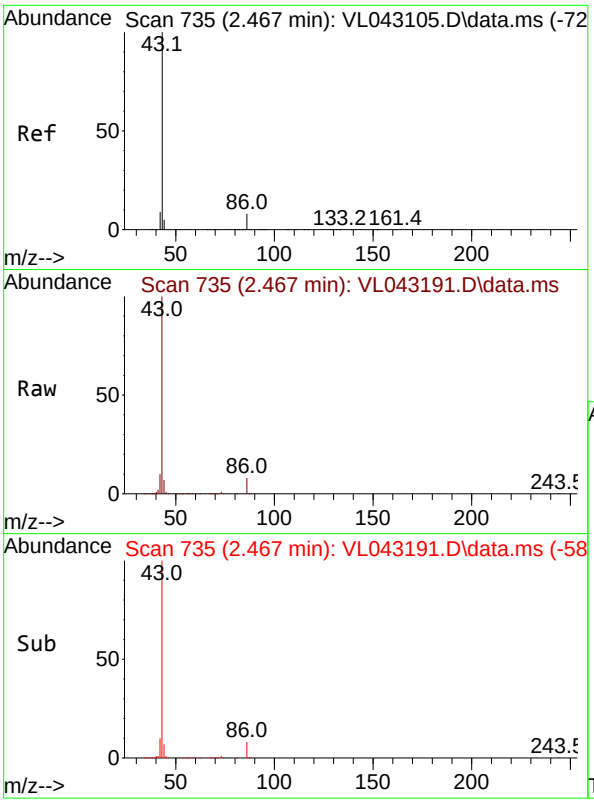


#22
trans-1,2-Dichloroethene
Concen: 9.336 ppbv
RT: 2.347 min Scan# 698
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 96 Resp: 77213

Ion	Ratio	Lower	Upper
96	100		
61	167.6	137.0	205.6
98	59.8	45.5	68.3



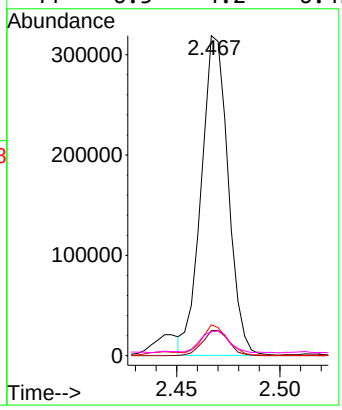


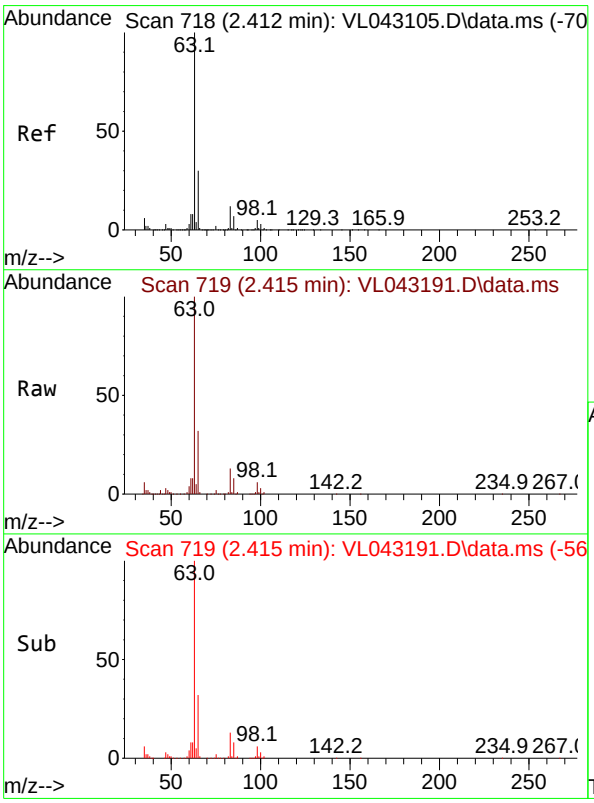
#23
Vinyl Acetate
Concen: 10.319 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 288816

Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.2	9.2
42	9.5	7.6	11.4
44	6.5	4.2	6.4#

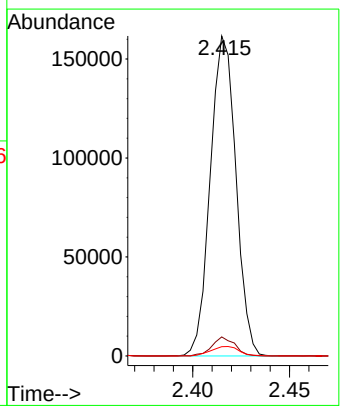


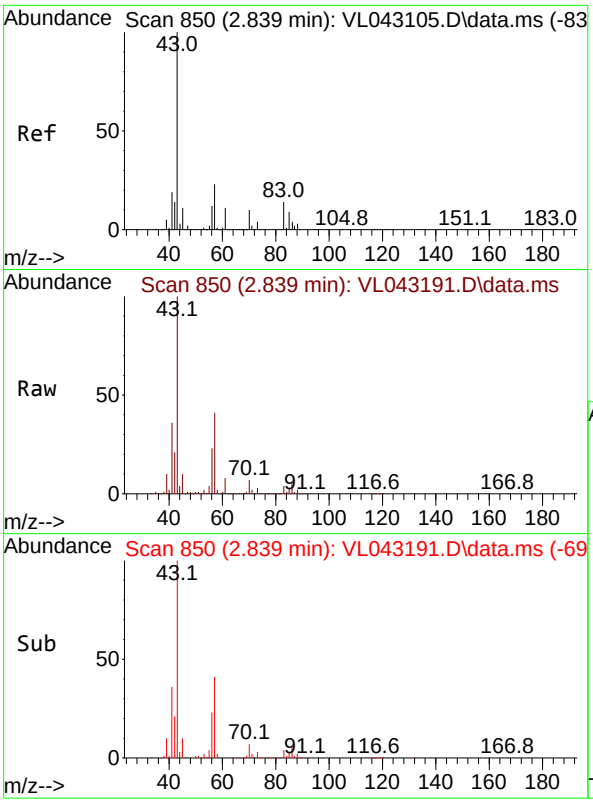


#24
1,1-Dichloroethane
Concen: 9.305 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 63 Resp: 148680

Ion	Ratio	Lower	Upper
63	100		
98	6.0	2.6	7.8
100	2.9	1.5	4.4



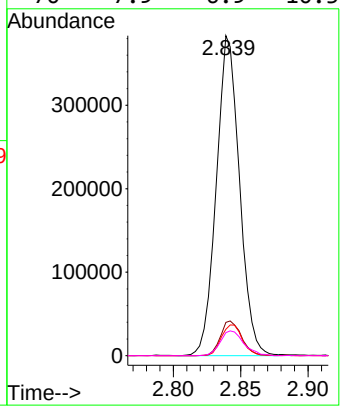


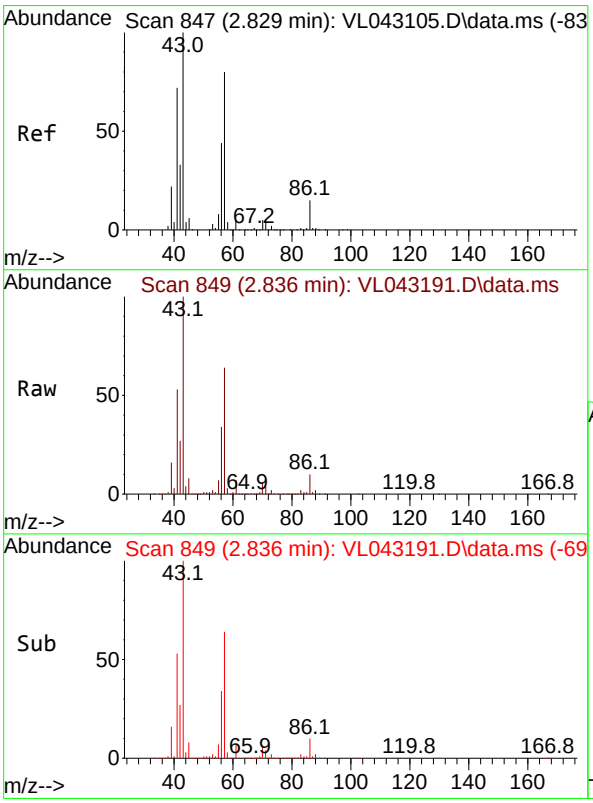
#25
Ethyl Acetate
Concen: 9.682 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 458770

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.8
61	8.9	7.0	10.6
70	7.9	6.9	10.3

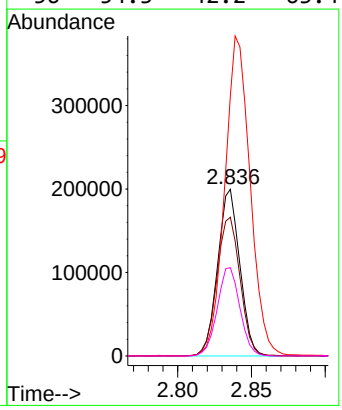


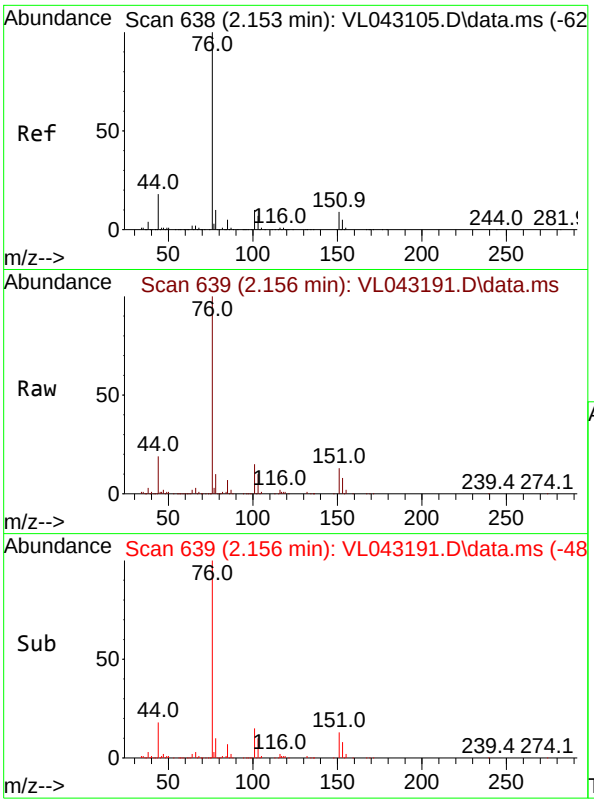


#26
Hexane
Concen: 9.534 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 57 Resp: 208153

Ion	Ratio	Lower	Upper
57	100		
41	88.5	71.4	107.0
43	221.3	178.5	267.7
56	54.3	42.2	63.4



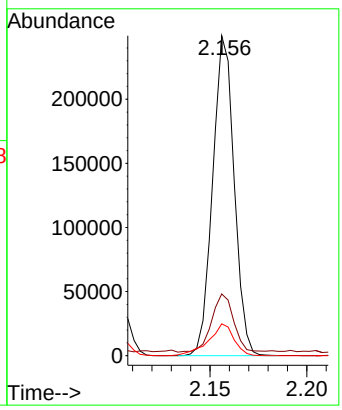


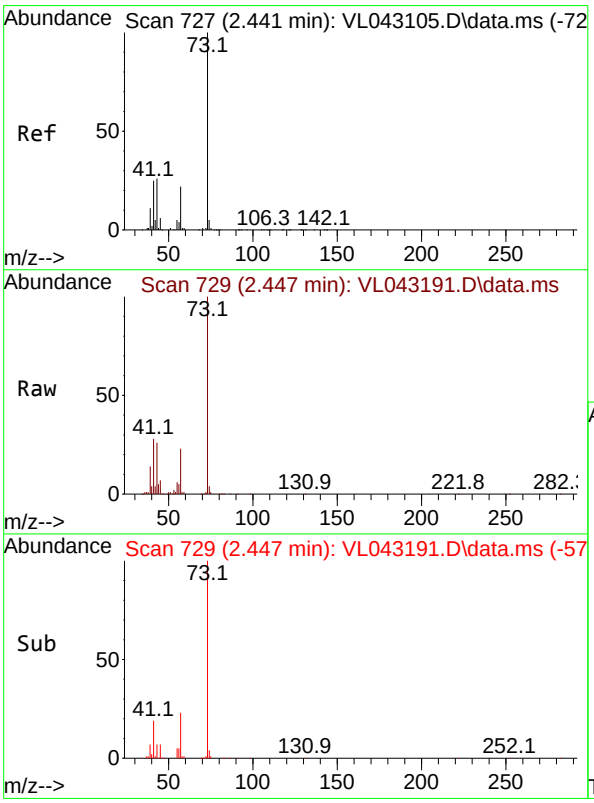
#27
Carbon Disulfide
Concen: 9.620 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 76 Resp: 192431

Ion	Ratio	Lower	Upper
76	100		
44	20.7	16.7	25.1
78	11.7	9.3	13.9

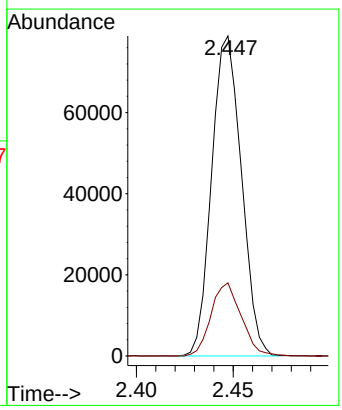


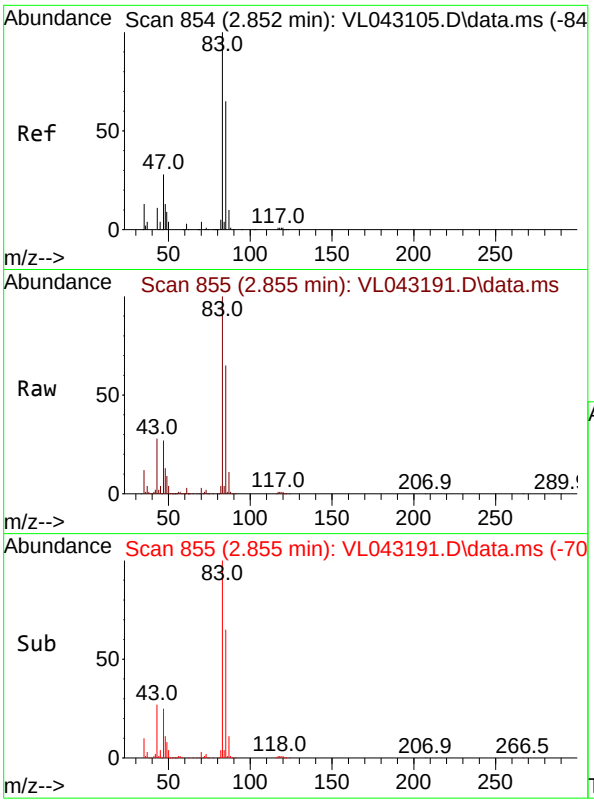


#28
Methyl tert-Butyl Ether
Concen: 8.484 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 73 Resp: 84272

Ion	Ratio	Lower	Upper
73	100		
57	23.2	20.5	30.7



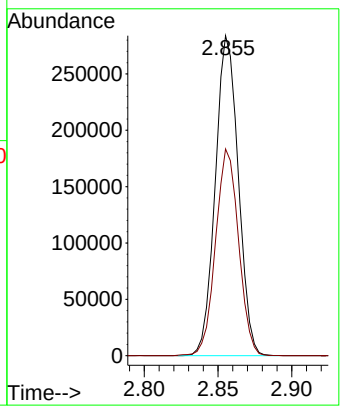


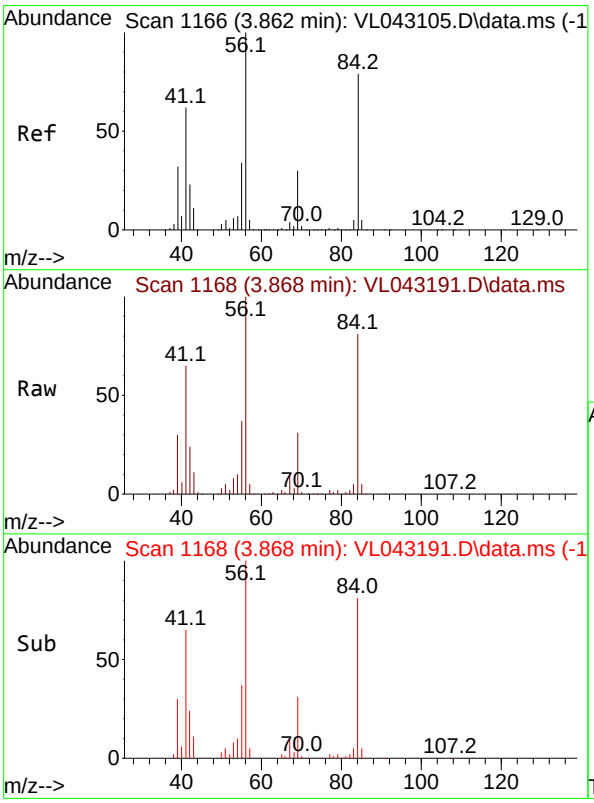
#29
Chloroform
Concen: 9.723 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 307588

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.8	77.6

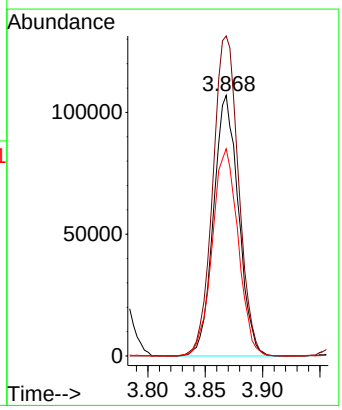


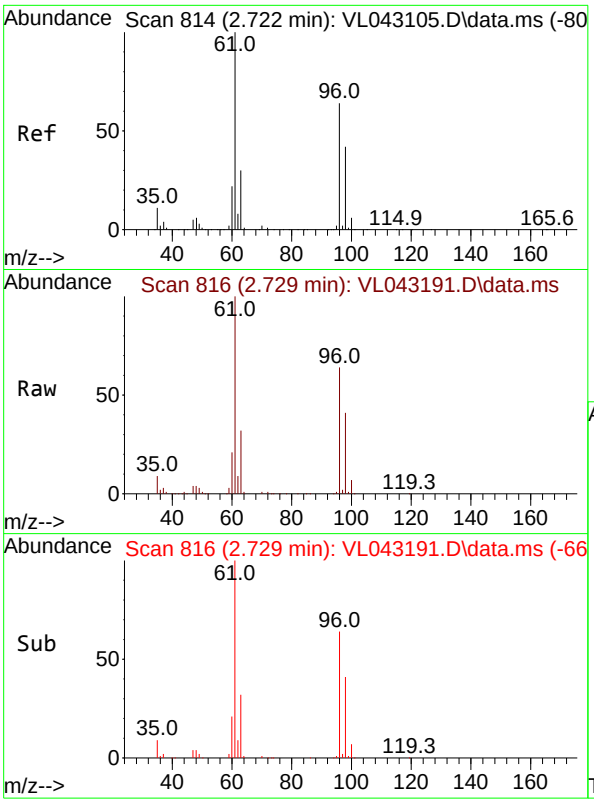


#30
Cyclohexane
Concen: 8.490 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 84 Resp: 161792

Ion	Ratio	Lower	Upper
84	100		
56	126.8	100.9	151.3
41	82.5	63.8	95.6



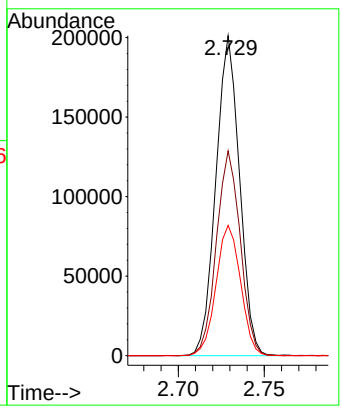


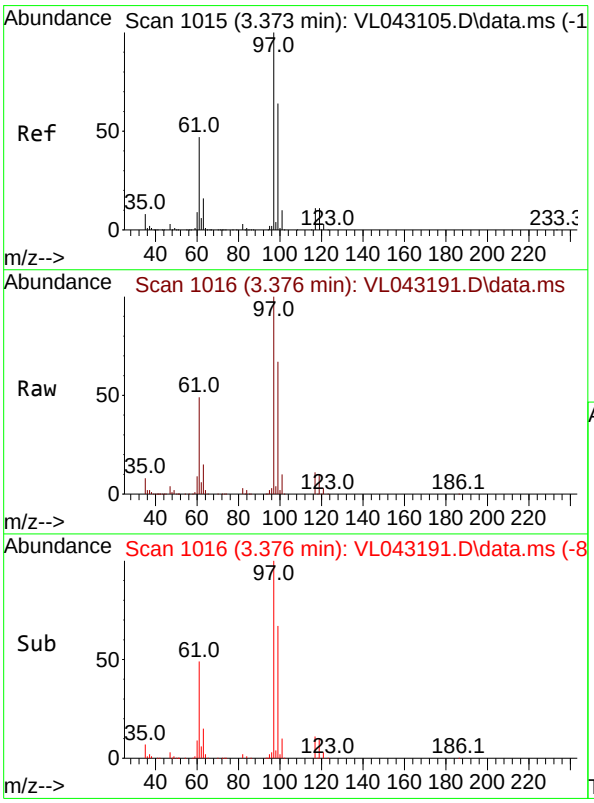
#31
cis-1,2-Dichloroethene
Concen: 9.244 ppbv
RT: 2.729 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 61 Resp: 192730

Ion	Ratio	Lower	Upper
61	100		
96	64.0	51.0	76.6
98	40.7	33.5	50.3

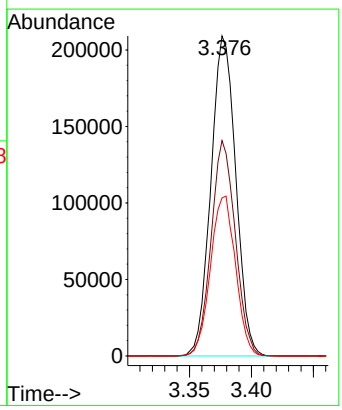


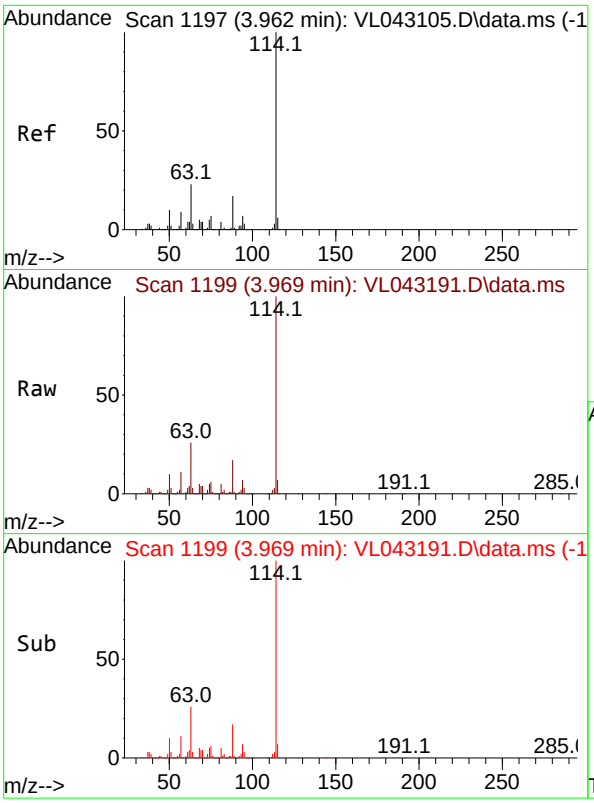


#32
1,1,1-Trichloroethane
Concen: 8.887 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 97 Resp: 292767

Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.3	76.9
61	50.5	38.4	57.6



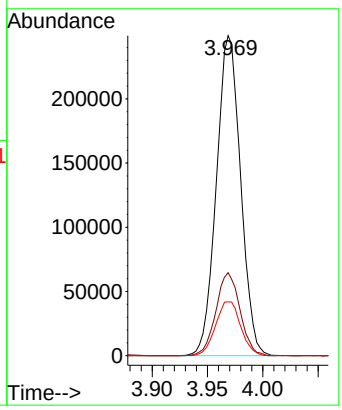


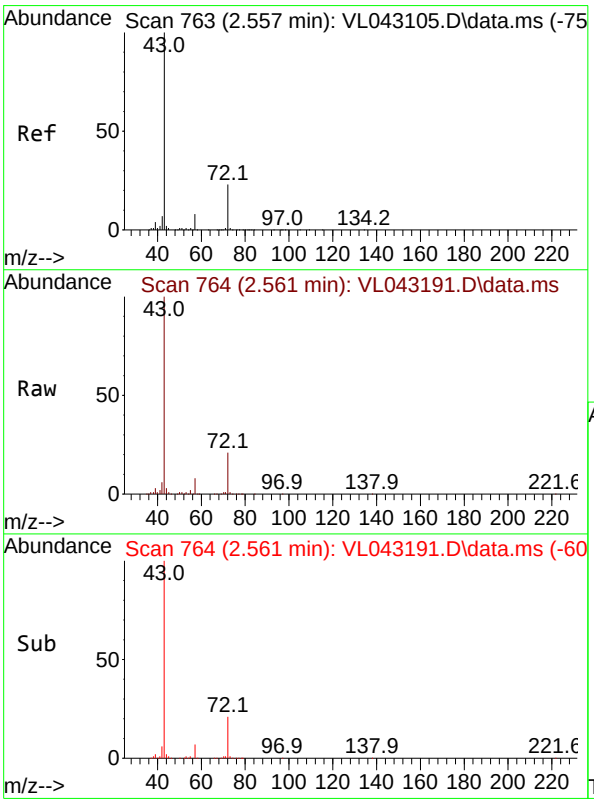
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.969 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:114 Resp: 379323

Ion	Ratio	Lower	Upper
114	100		
63	25.8	19.3	28.9
88	17.6	13.9	20.9

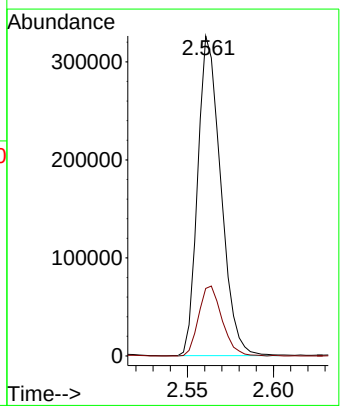


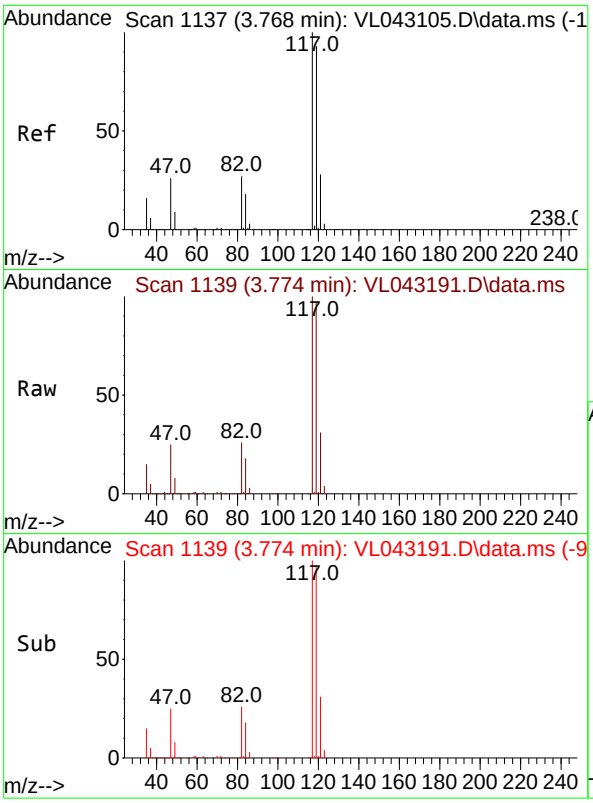


#34
2-Butanone
Concen: 11.940 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 43 Resp: 304449

Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.4	27.6



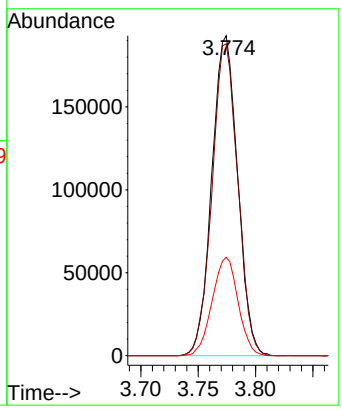


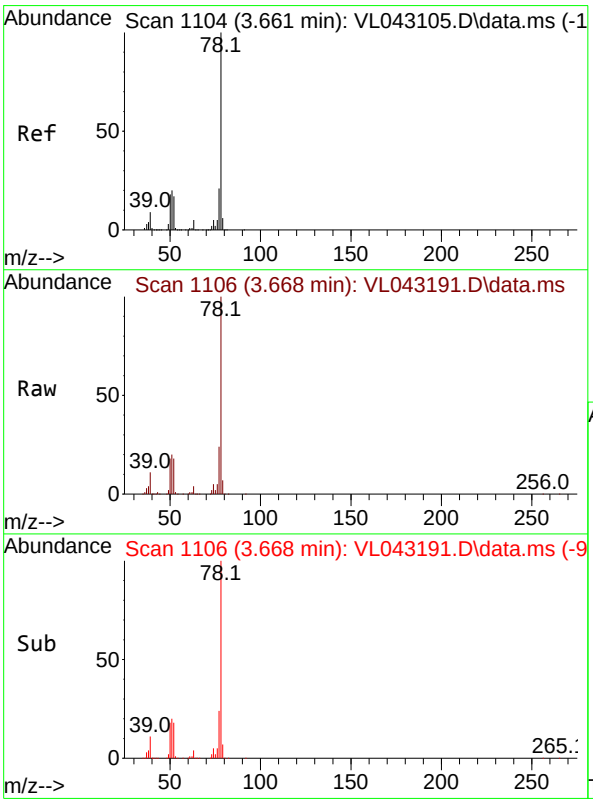
#35
Carbon Tetrachloride
Concen: 11.078 ppbv
RT: 3.774 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 302120

Ion	Ratio	Lower	Upper
117	100		
119	97.4	74.1	111.1
121	30.7	22.2	33.2

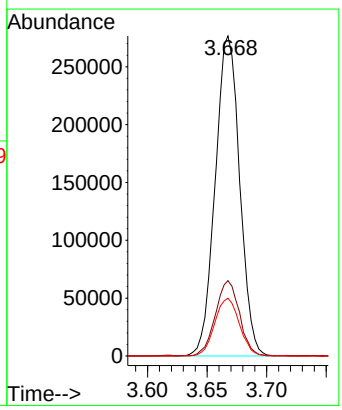


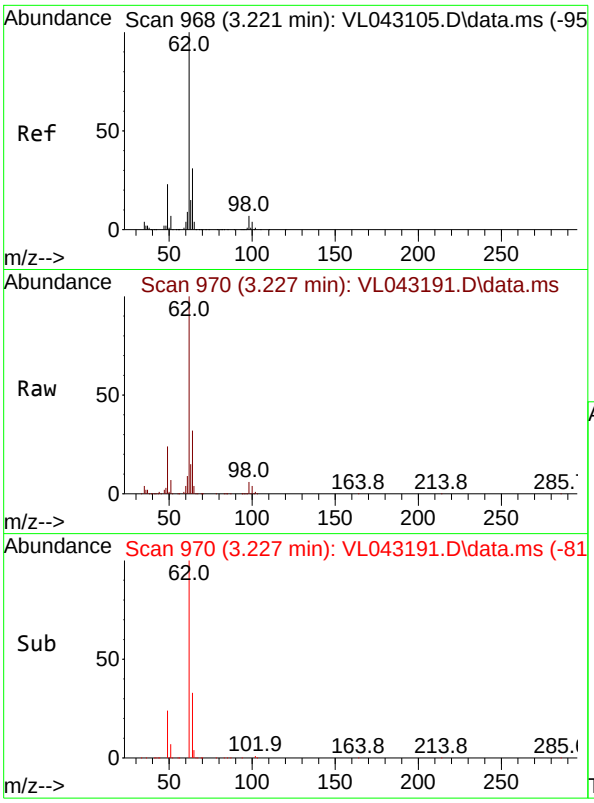


#36
Benzene
Concen: 11.039 ppbv
RT: 3.668 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 78 Resp: 394397

Ion	Ratio	Lower	Upper
78	100		
77	23.5	17.0	25.6
50	18.0	14.6	22.0



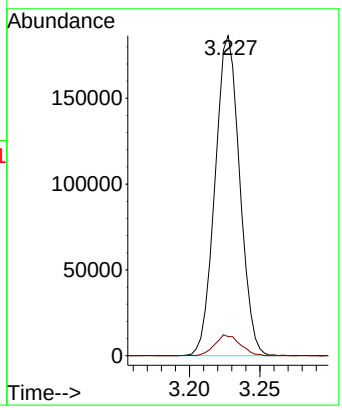


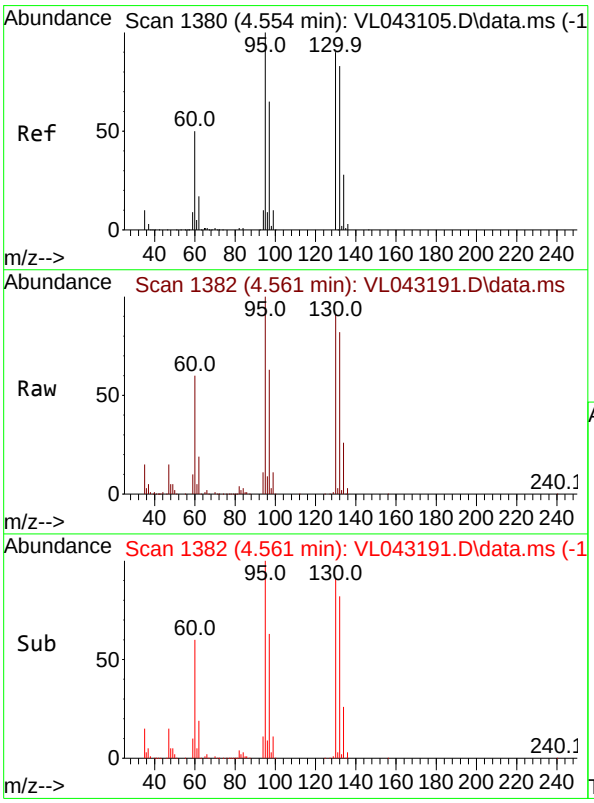
#37
1,2-Dichloroethane
Concen: 11.049 ppbv
RT: 3.227 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 227409

Ion	Ratio	Lower	Upper
62	100		
98	6.7	5.8	8.6

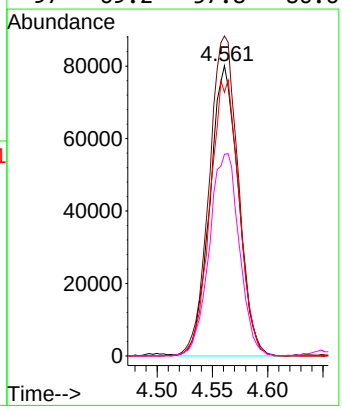


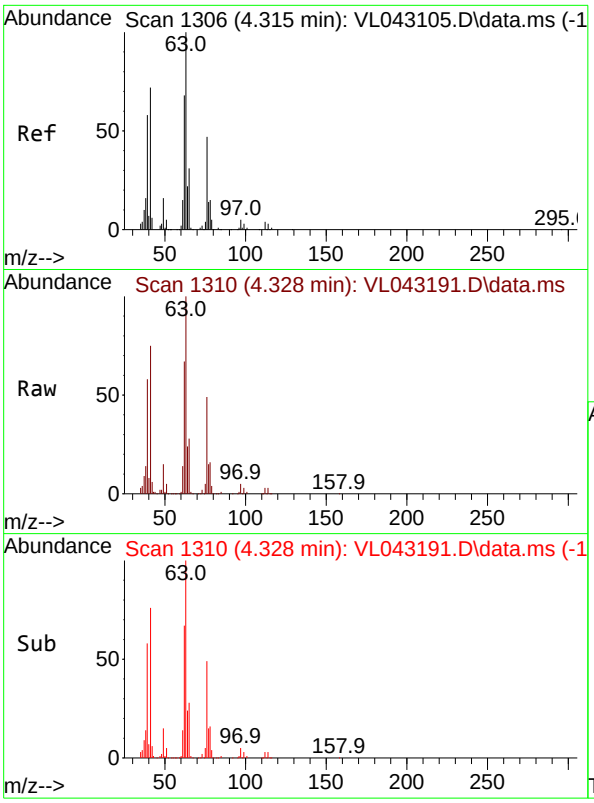


#38
Trichloroethene
Concen: 9.599 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:130 Resp: 143231

Ion	Ratio	Lower	Upper
130	100		
95	110.2	88.6	133.0
132	90.8	73.4	110.0
97	69.2	57.8	86.6



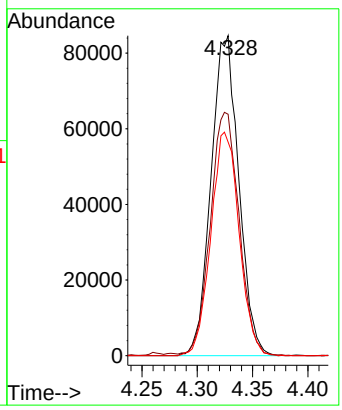


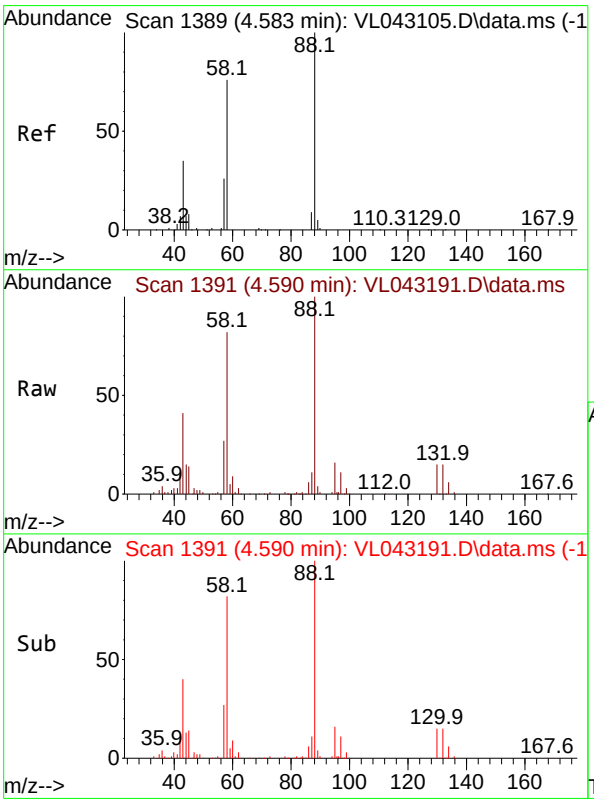
#39
1,2-Dichloropropane
Concen: 11.310 ppbv
RT: 4.328 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 63 Resp: 147718

Ion	Ratio	Lower	Upper
63	100		
41	75.2	58.0	87.0
62	66.7	54.7	82.1

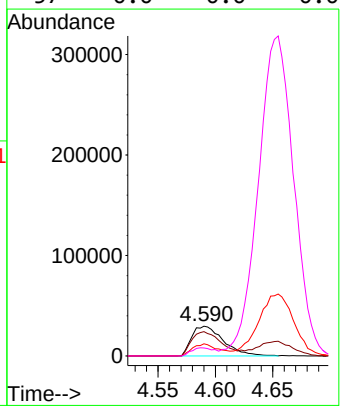


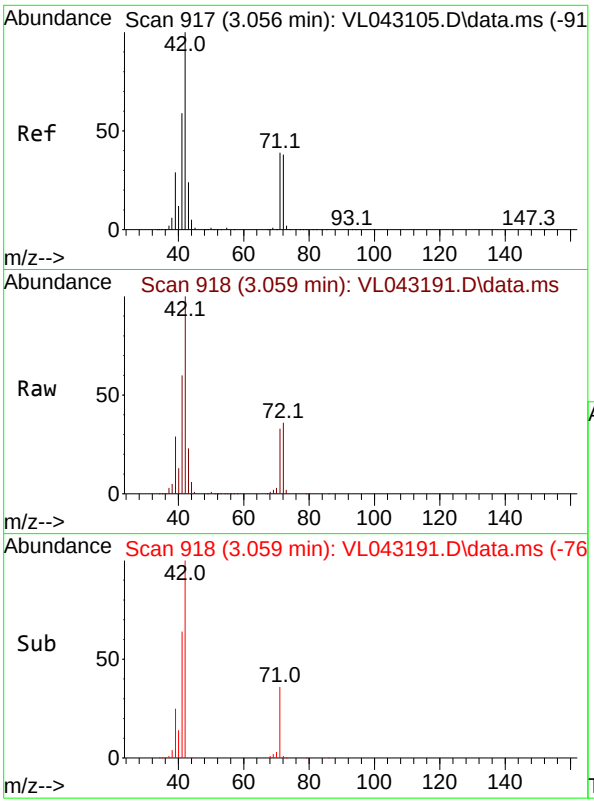


#40
1,4-Dioxane
Concen: 9.811 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 88 Resp: 57344

Ion	Ratio	Lower	Upper
88	100		
58	79.2	61.1	91.7
43	35.7	24.0	36.0
57	0.0	0.0	0.0



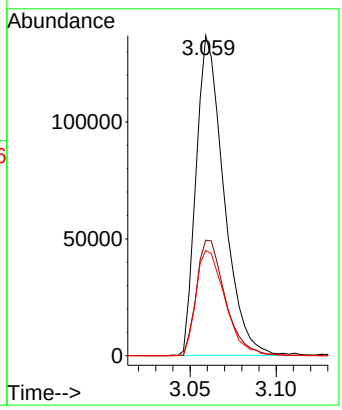


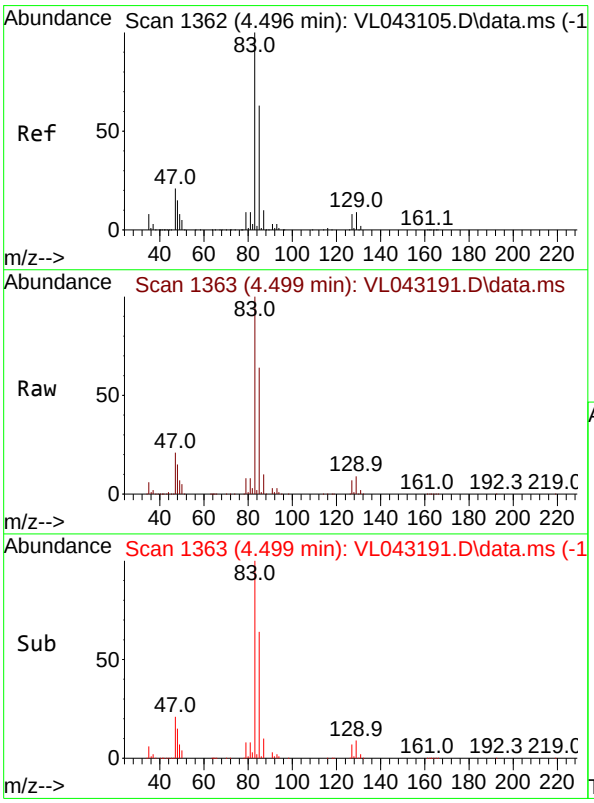
#41
Tetrahydrofuran
Concen: 10.704 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 42 Resp: 152660

Ion	Ratio	Lower	Upper
42	100		
72	37.8	31.3	46.9
71	34.7	30.4	45.6

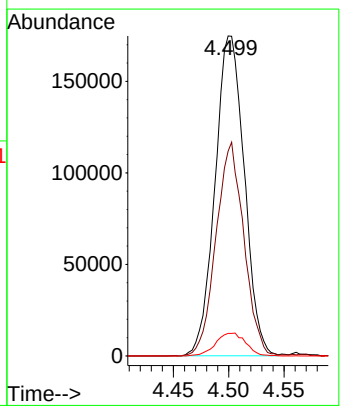


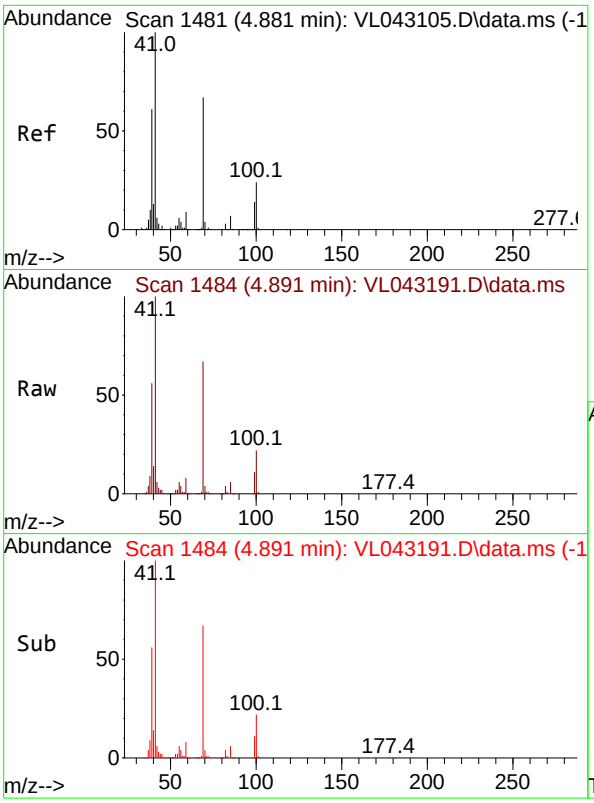


#42
Bromodichloromethane
Concen: 11.299 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 83 Resp: 321852

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.6	75.8
127	7.1	6.3	9.5



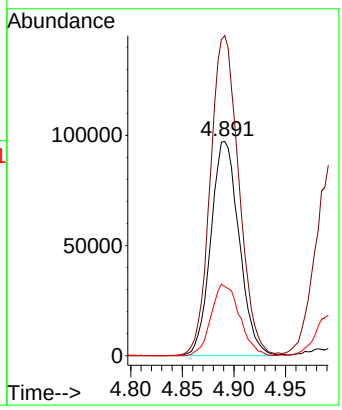


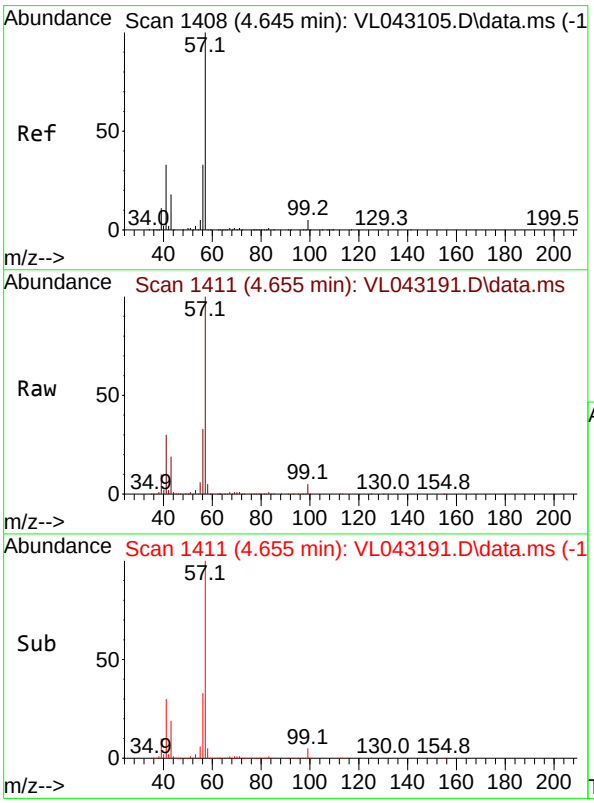
#43
Methyl Methacrylate
Concen: 10.193 ppbv
RT: 4.891 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 184954

Ion	Ratio	Lower	Upper
69	100		
41	150.9	120.5	180.7
100	33.7	29.0	43.4

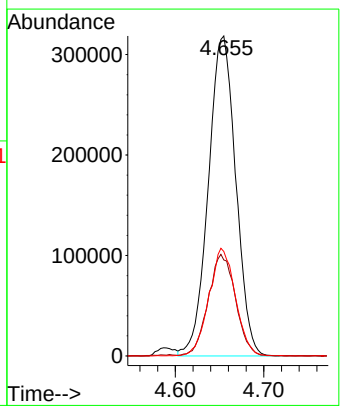


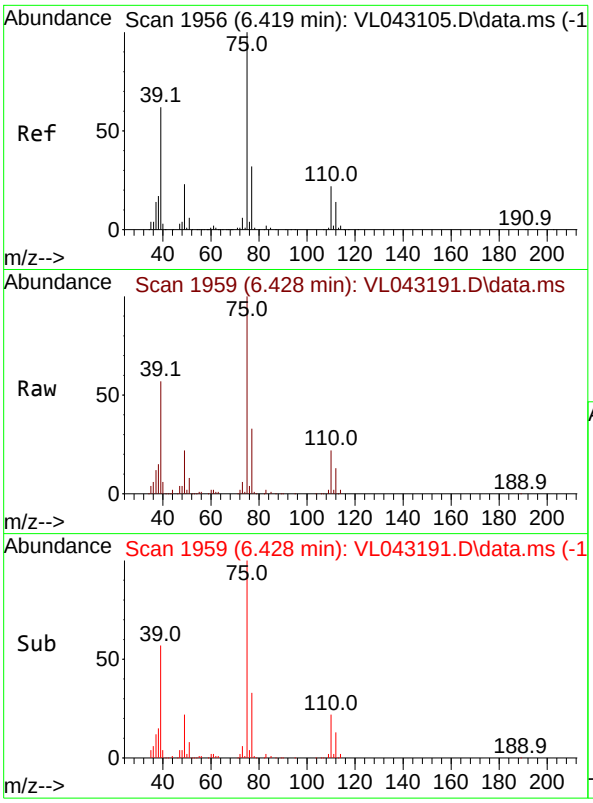


#44
2,2,4-Trimethylpentane
Concen: 11.376 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 57 Resp: 685708

Ion	Ratio	Lower	Upper
57	100		
41	32.1	26.3	39.5
56	32.6	25.9	38.9



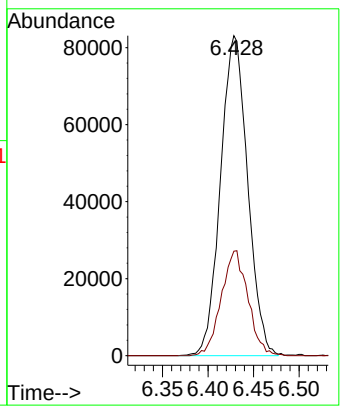


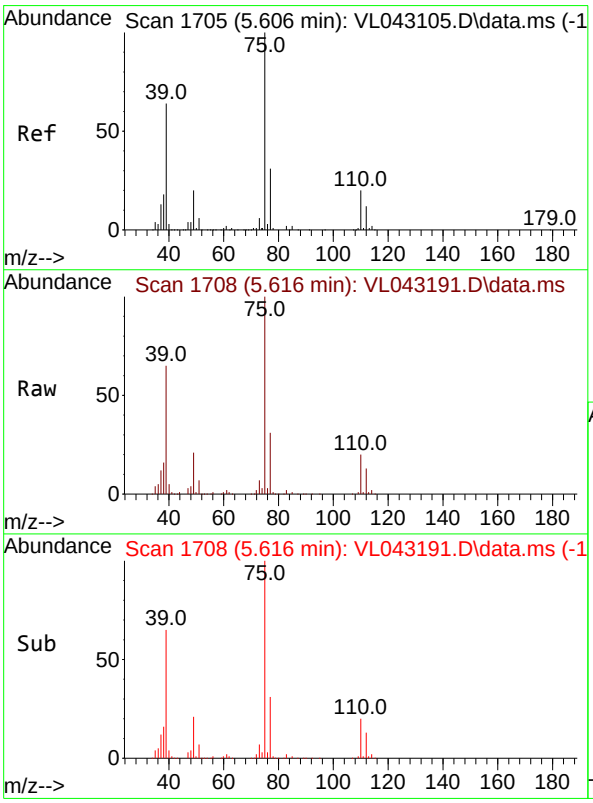
#45
t-1,3-Dichloropropene
Concen: 9.458 ppbv
RT: 6.428 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 172223

Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.4	38.2

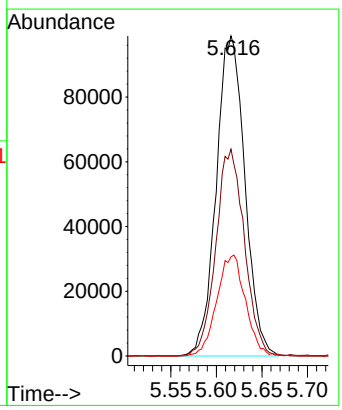


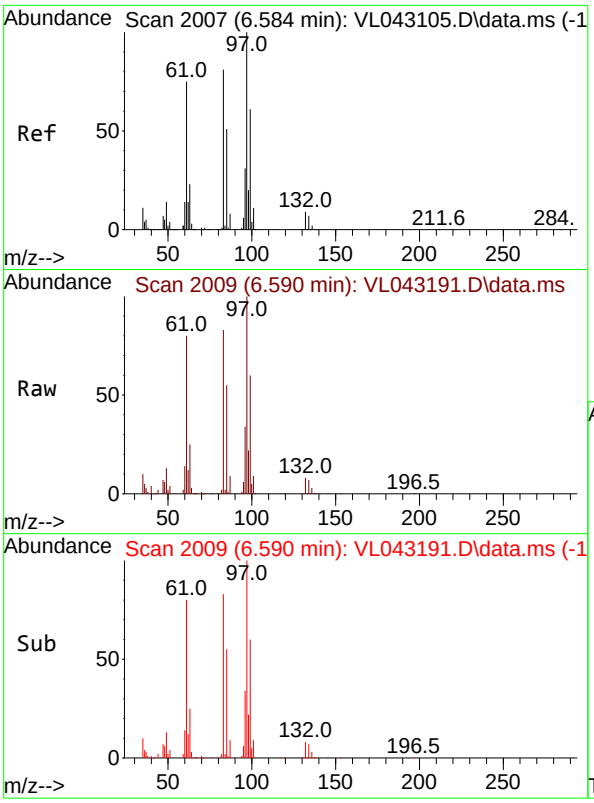


#46
cis-1,3-Dichloropropene
Concen: 9.947 ppbv
RT: 5.616 min Scan# 1708
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 75 Resp: 216380

Ion	Ratio	Lower	Upper
75	100		
39	64.6	51.0	76.6
77	31.0	25.0	37.4



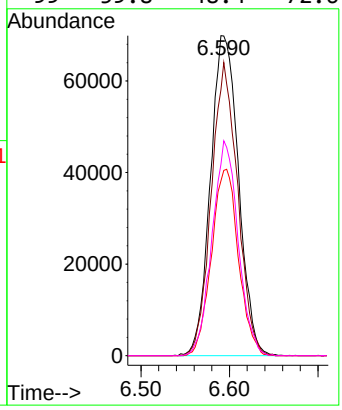


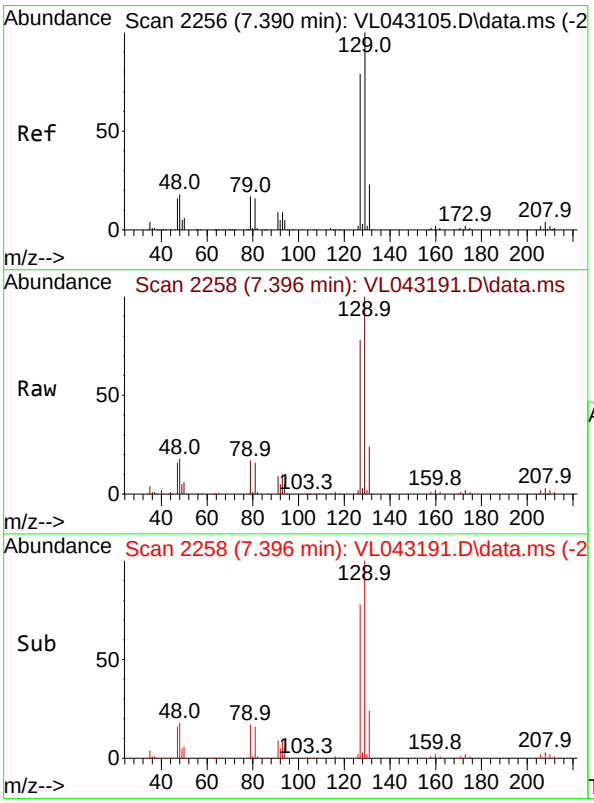
#47
1,1,2-Trichloroethane
Concen: 10.924 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 97 Resp: 154071

Ion	Ratio	Lower	Upper
97	100		
83	83.2	64.6	96.8
85	54.7	40.6	60.8
99	59.8	48.4	72.6

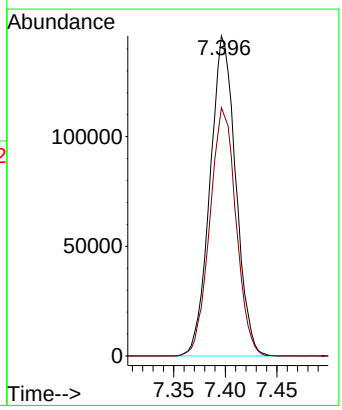


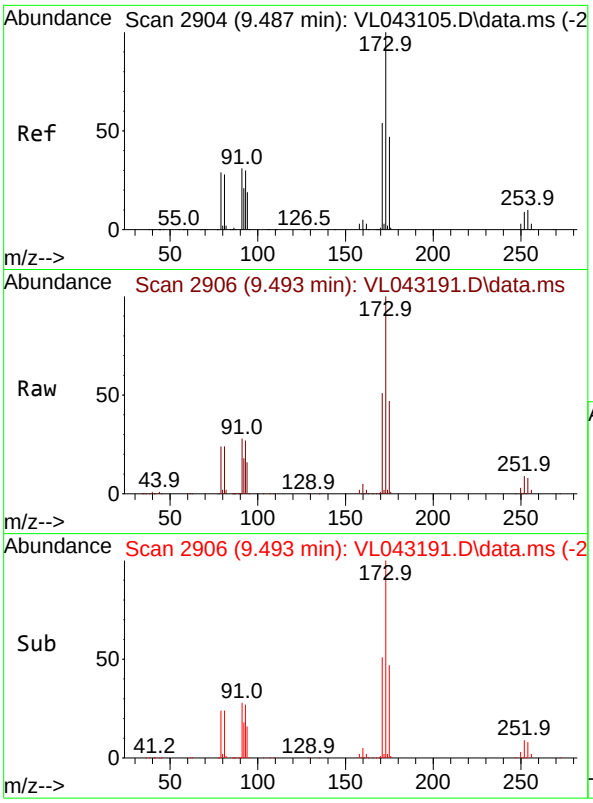


#48
Dibromochloromethane
Concen: 10.729 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:129 Resp: 253004

Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.3	117.9



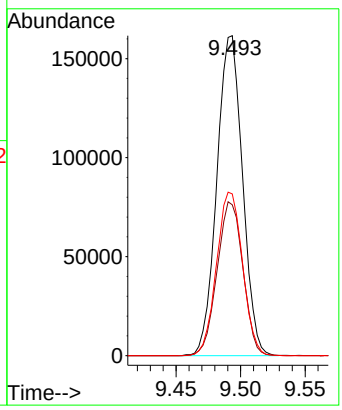


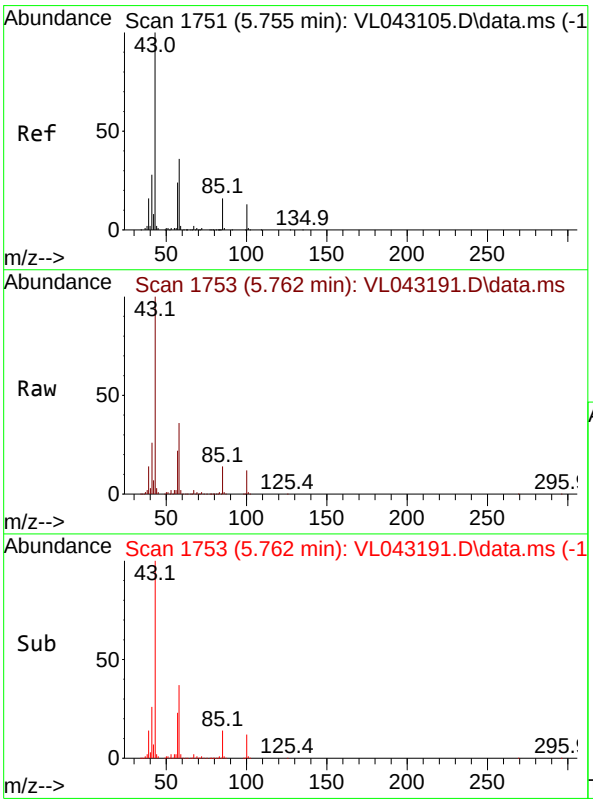
#49
Bromoform
Concen: 11.657 ppbv
RT: 9.493 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 223457

Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.8	58.2
171	51.7	41.7	62.5

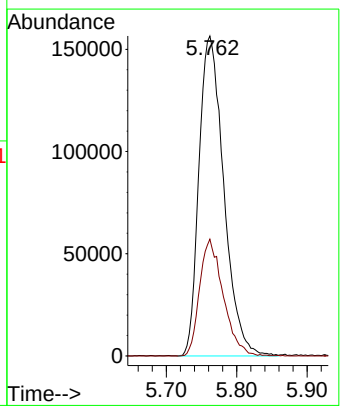


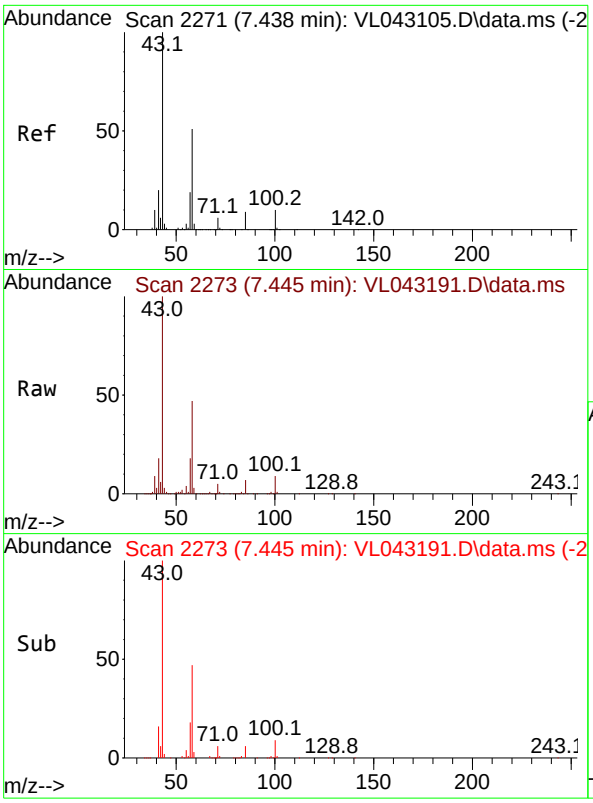


#50
4-Methyl-2-Pentanone
Concen: 10.896 ppbv
RT: 5.762 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 43 Resp: 383415

Ion	Ratio	Lower	Upper
43	100		
58	34.7	29.1	43.7



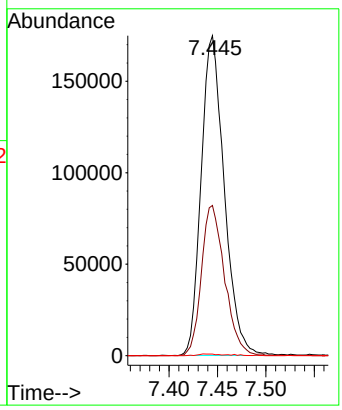


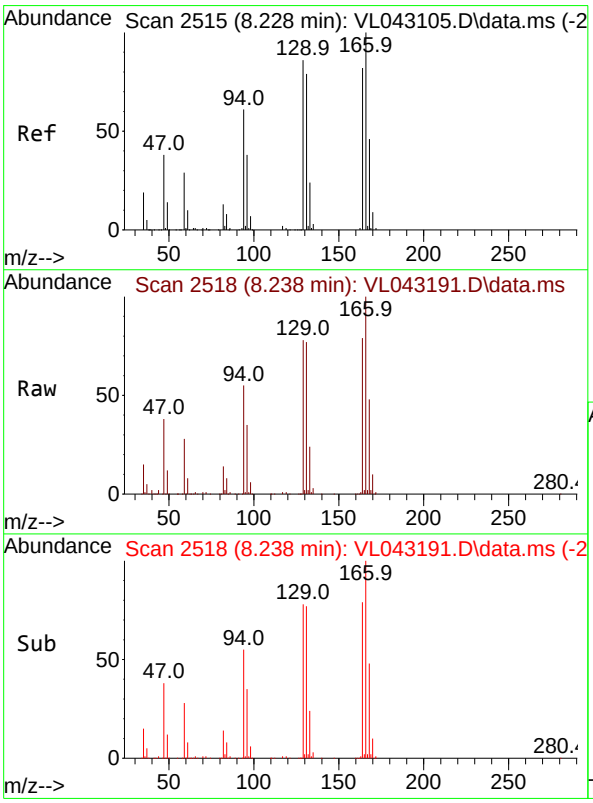
#51
2-Hexanone
Concen: 10.990 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 290059

Ion	Ratio	Lower	Upper
43	100		
58	47.3	40.4	60.6
98	0.7	0.1	0.1#

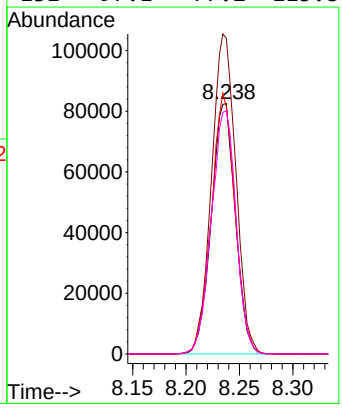


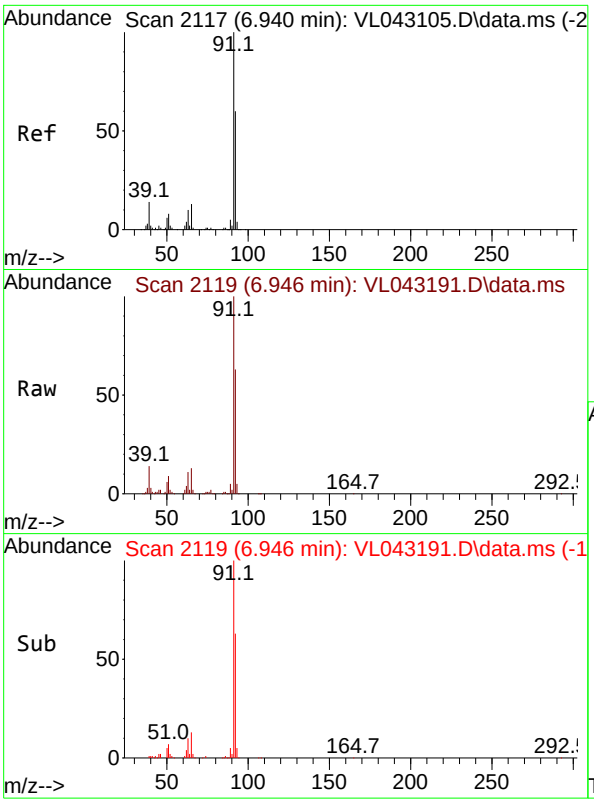


#52
Tetrachloroethene
Concen: 10.058 ppbv
RT: 8.238 min Scan# 2518
Delta R.T. 0.010 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:164 Resp: 129582

Ion	Ratio	Lower	Upper
164	100		
166	126.0	97.6	146.4
129	98.5	84.5	126.7
131	97.1	77.2	115.8



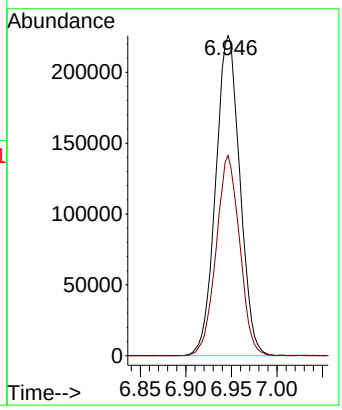


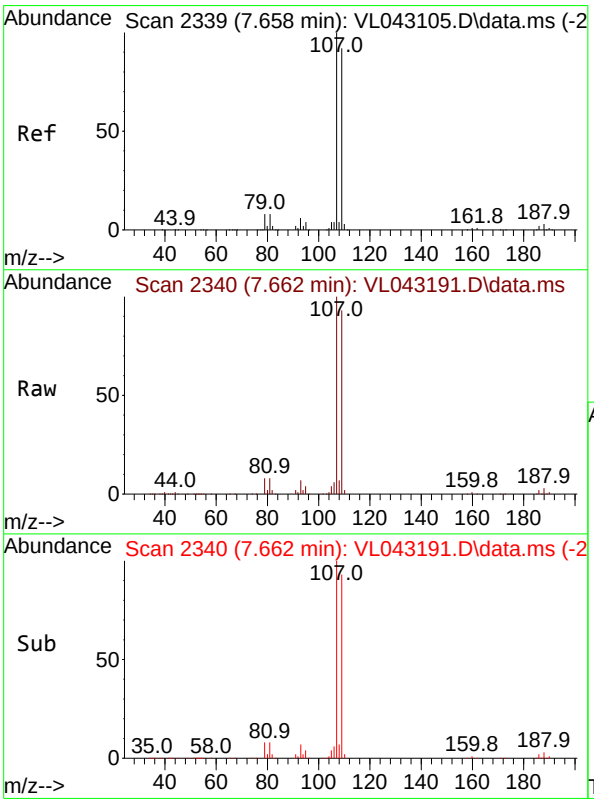
#53
Toluene
Concen: 9.842 ppbv
RT: 6.946 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 417333

Ion	Ratio	Lower	Upper
91	100		
92	60.9	48.8	73.2

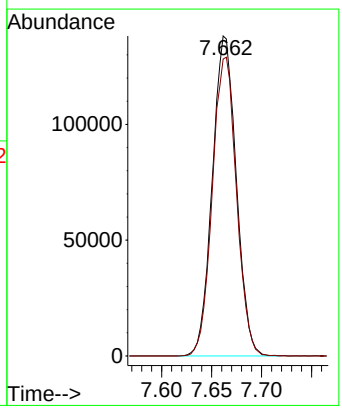


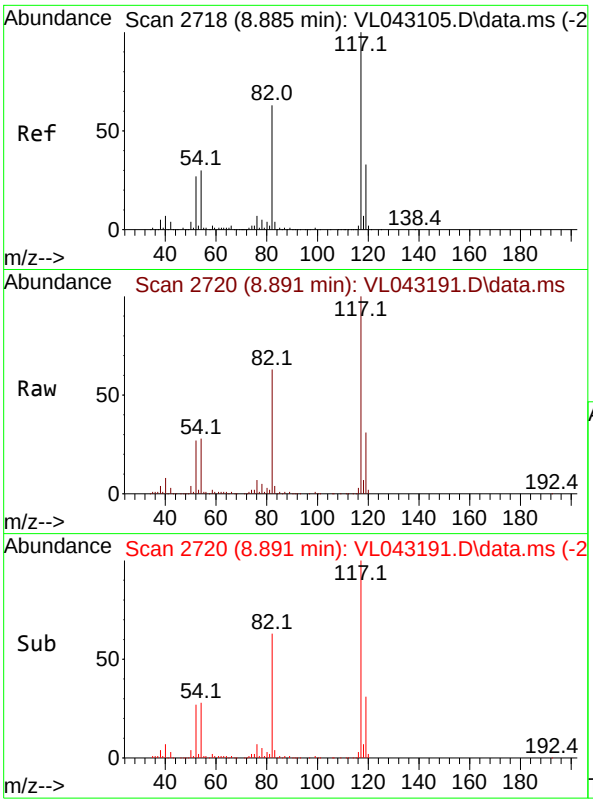


#54
1,2-Dibromoethane
Concen: 10.434 ppbv
RT: 7.662 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:107 Resp: 230500

Ion	Ratio	Lower	Upper
107	100		
109	92.8	73.4	110.2



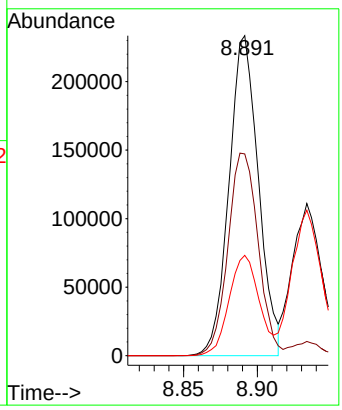


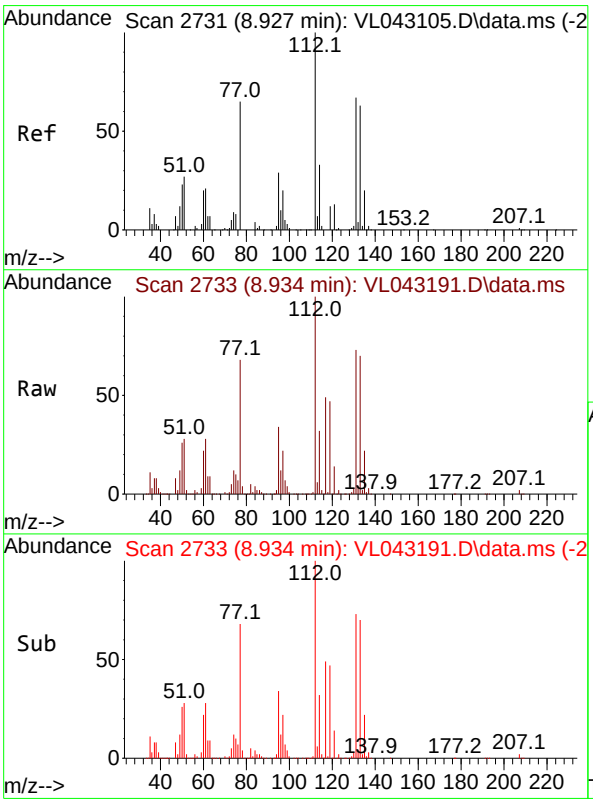
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 324654

Ion	Ratio	Lower	Upper
117	100		
82	69.3	53.8	80.8
119	33.1	25.4	38.0

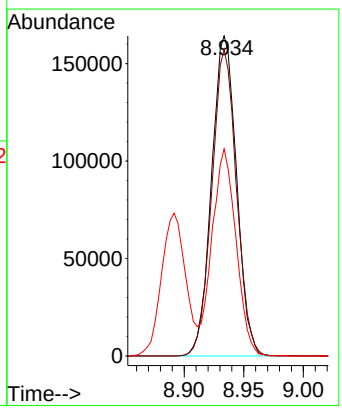


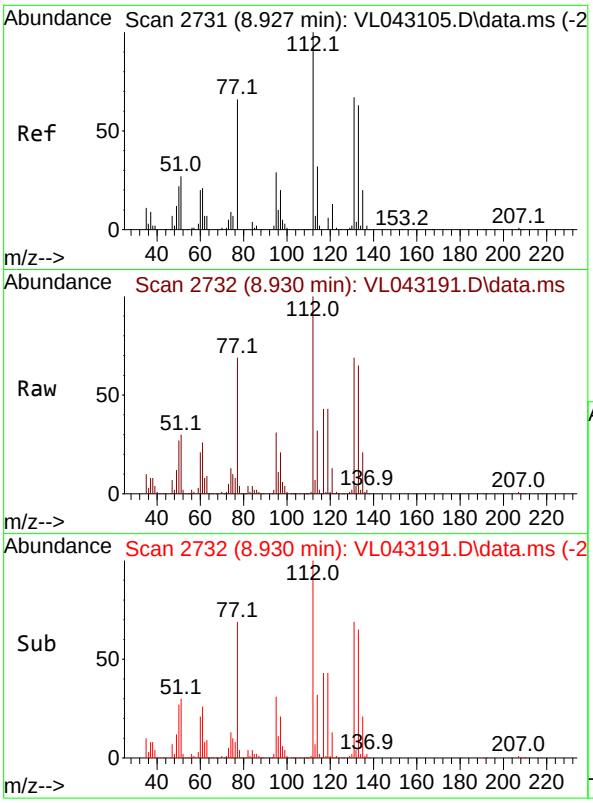


#56
1,1,1,2-Tetrachloroethane
Concen: 11.648 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:131 Resp: 238374

Ion	Ratio	Lower	Upper
131	100		
133	94.9	75.7	113.5
119	63.8	50.6	76.0



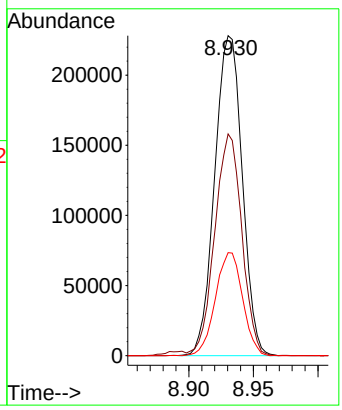


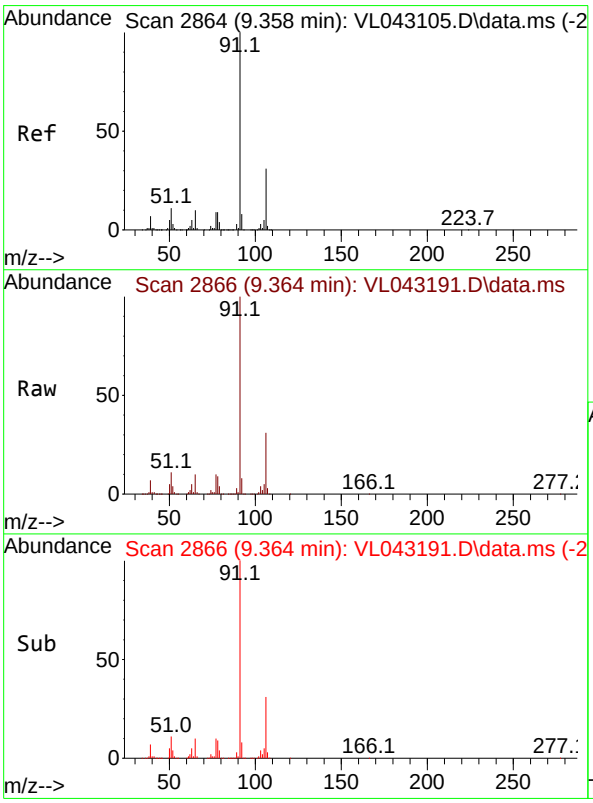
#57
Chlorobenzene
Concen: 11.148 ppbv
RT: 8.930 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:112 Resp: 338588

Ion	Ratio	Lower	Upper
112	100		
77	69.2	53.3	79.9
114	32.2	29.3	35.8

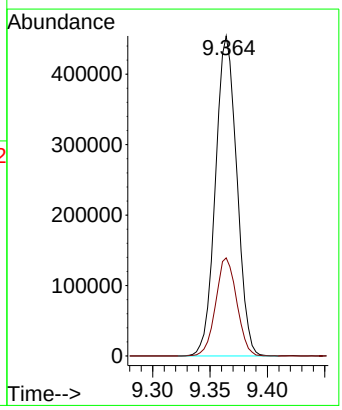


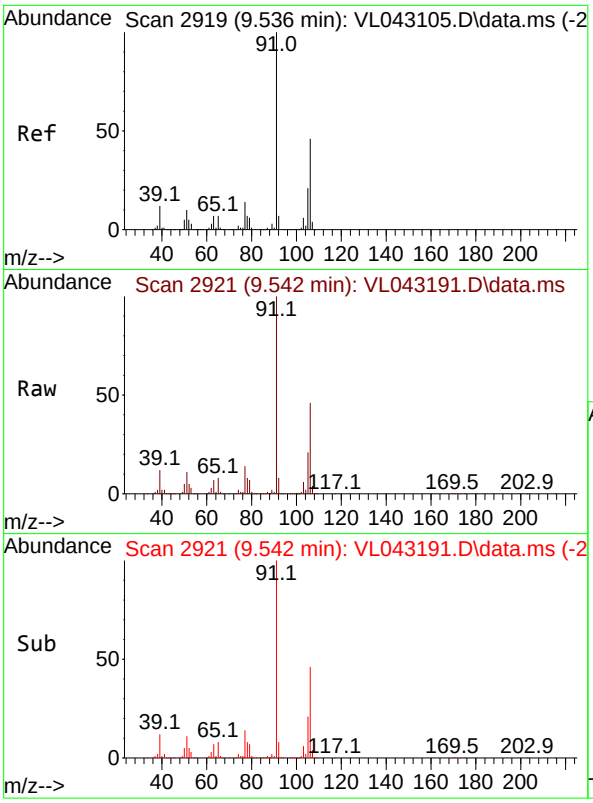


#58
Ethyl Benzene
Concen: 10.543 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 91 Resp: 587423

Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.8	37.2



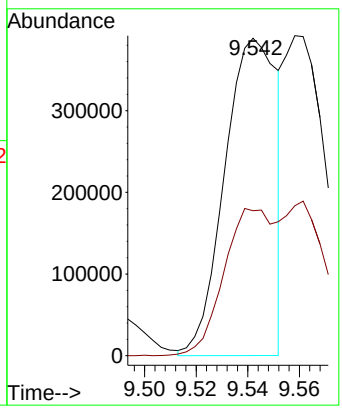


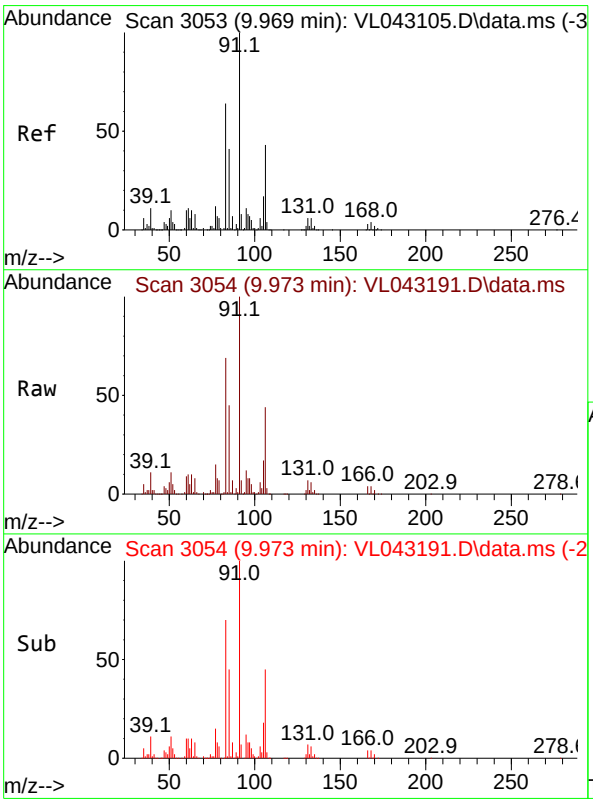
#59
m/p-Xylene
Concen: 12.248 ppbv
RT: 9.542 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 544298

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

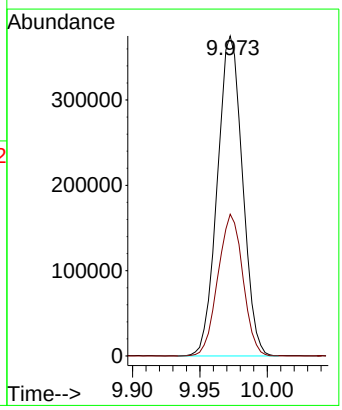


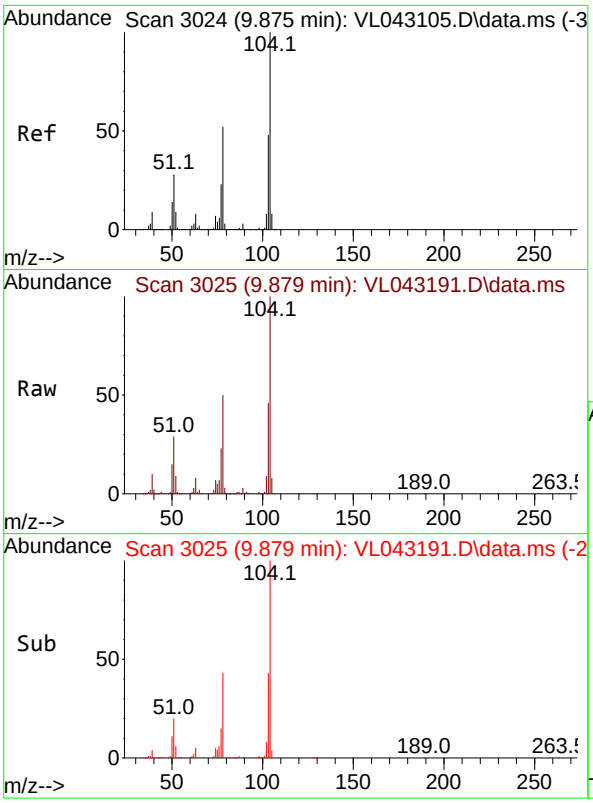


#60
o-Xylene
Concen: 11.090 ppbv
RT: 9.973 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 91 Resp: 486760

Ion	Ratio	Lower	Upper
91	100		
106	44.0	21.9	65.8



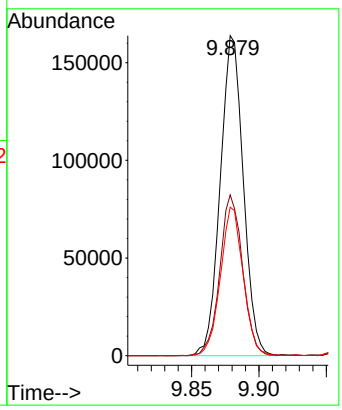


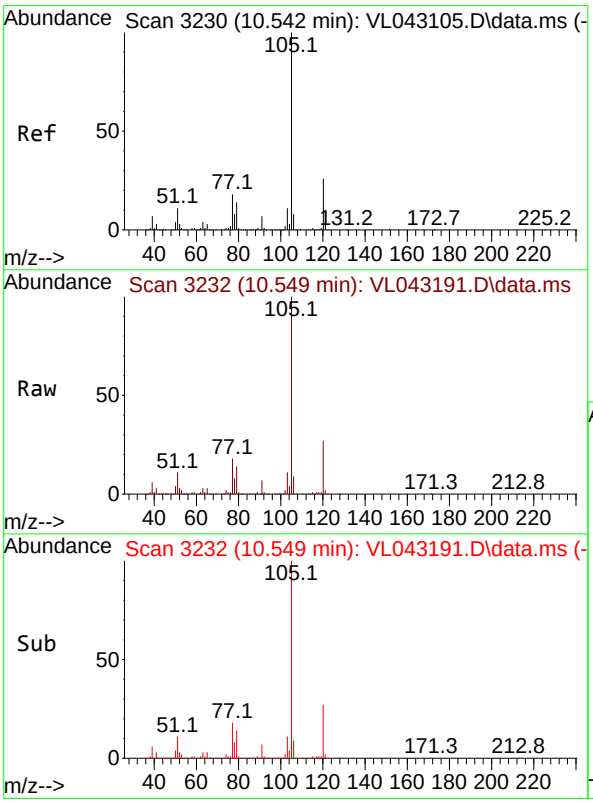
#61
Styrene
Concen: 9.851 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 195183

Ion	Ratio	Lower	Upper
104	100		
78	49.6	40.2	60.2
103	46.0	36.9	55.3

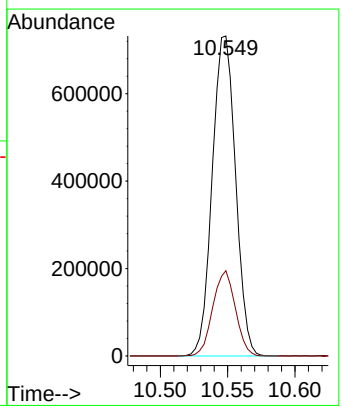


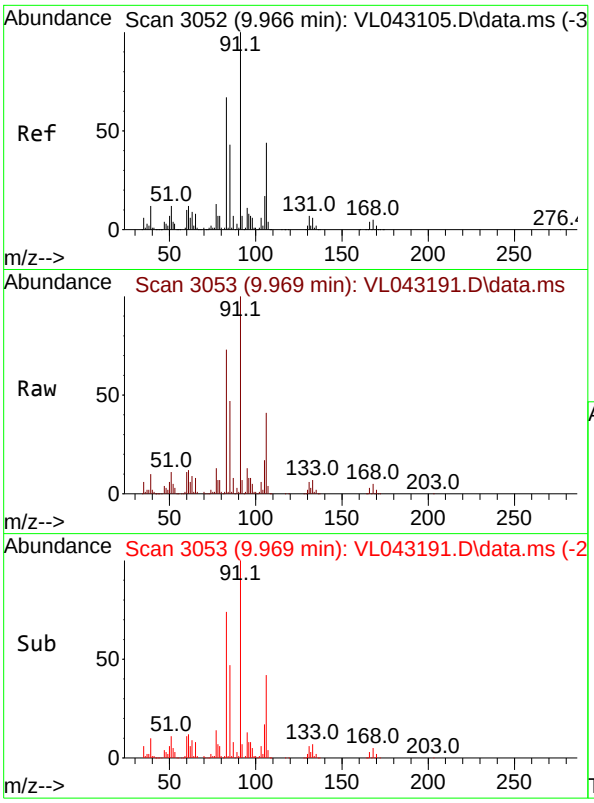


#62
Isopropylbenzene
Concen: 11.111 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:105 Resp: 881218

Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.2	30.4



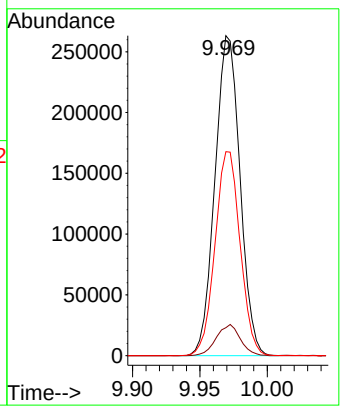


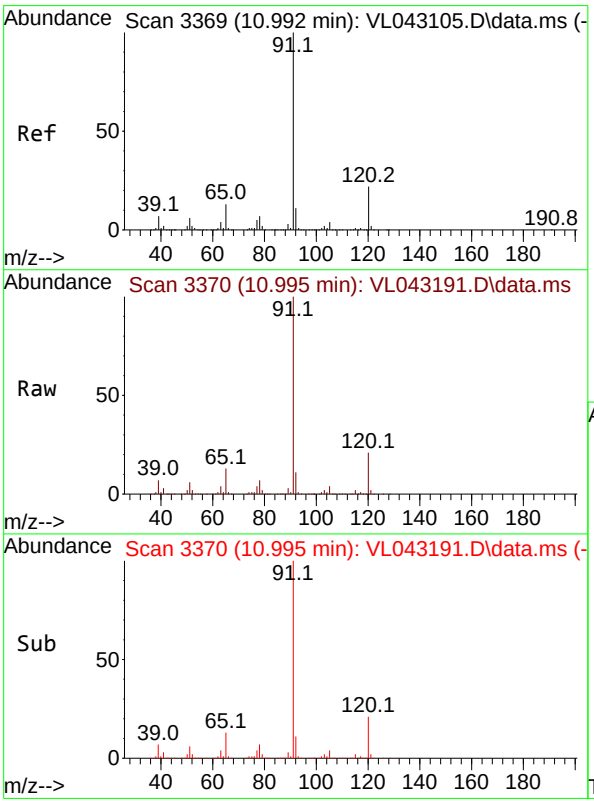
#63
1,1,2,2-Tetrachloroethane
Concen: 11.592 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 340692

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.8	14.3
85	63.9	32.0	96.0

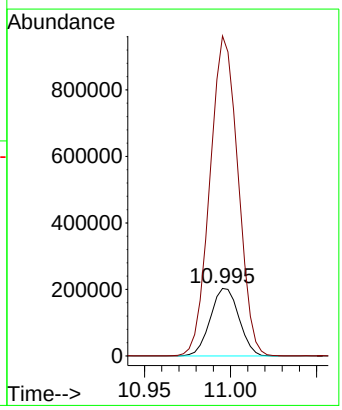


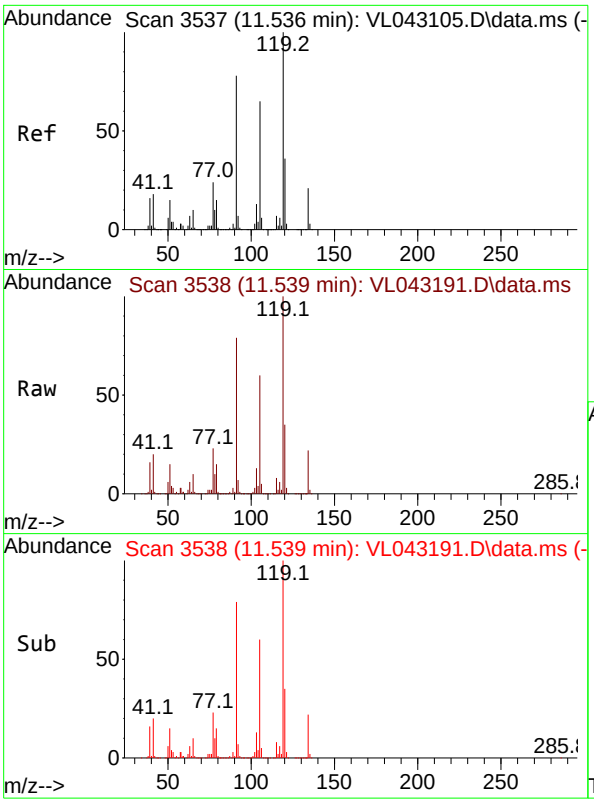


#64
n-propylbenzene
Concen: 11.181 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:120 Resp: 234766

Ion	Ratio	Lower	Upper
120	100		
91	466.0	361.6	542.4



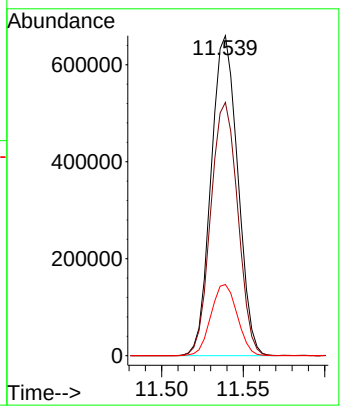


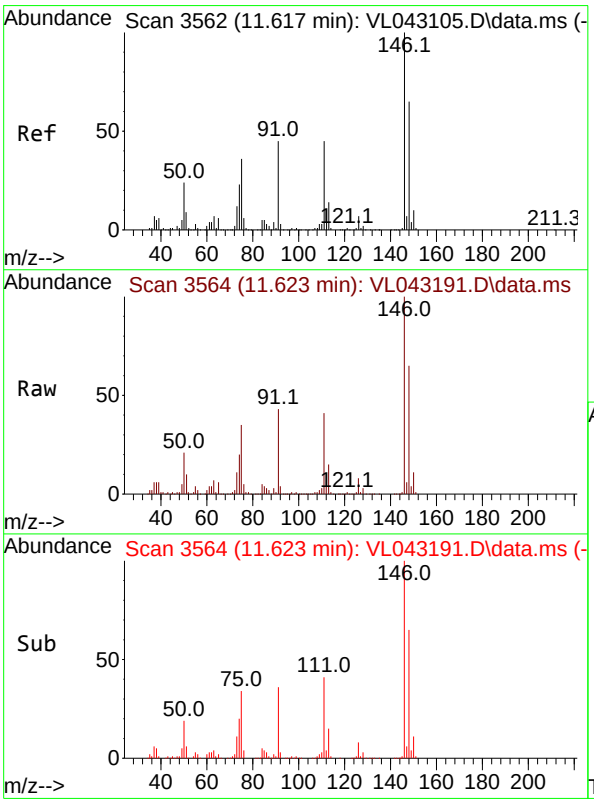
#65
tert-Butylbenzene
Concen: 10.727 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 751341

Ion	Ratio	Lower	Upper
119	100		
91	80.0	63.4	95.0
134	21.9	17.3	25.9

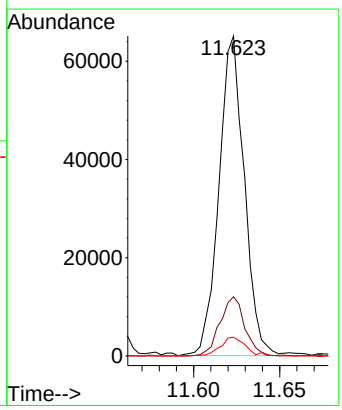


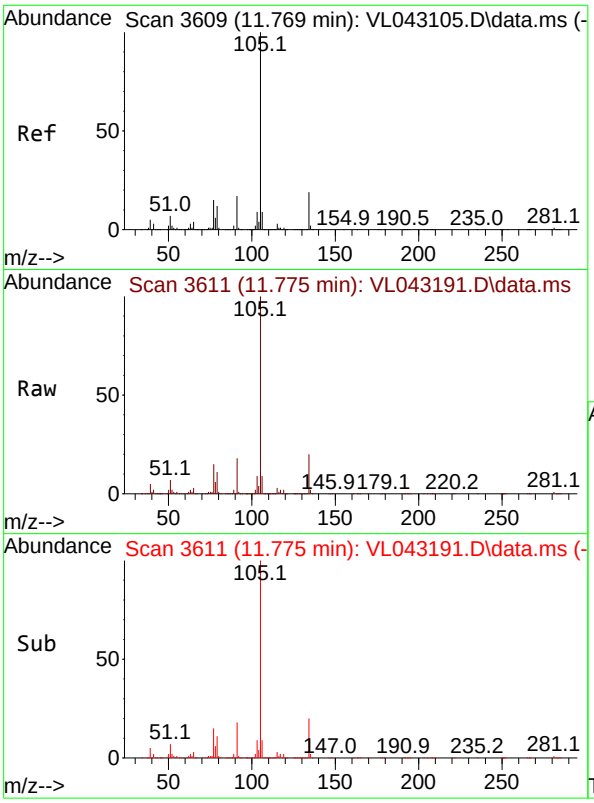


#66
Benzyl Chloride
Concen: 8.537 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 91 Resp: 66547

Ion	Ratio	Lower	Upper
91	100		
126	18.3	14.6	22.0
128	5.8	4.6	6.8



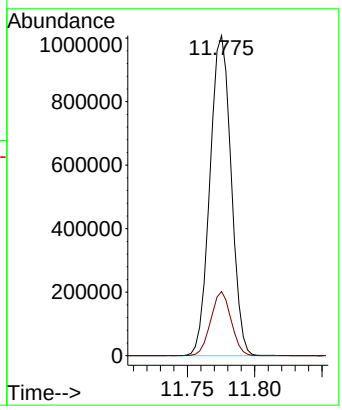


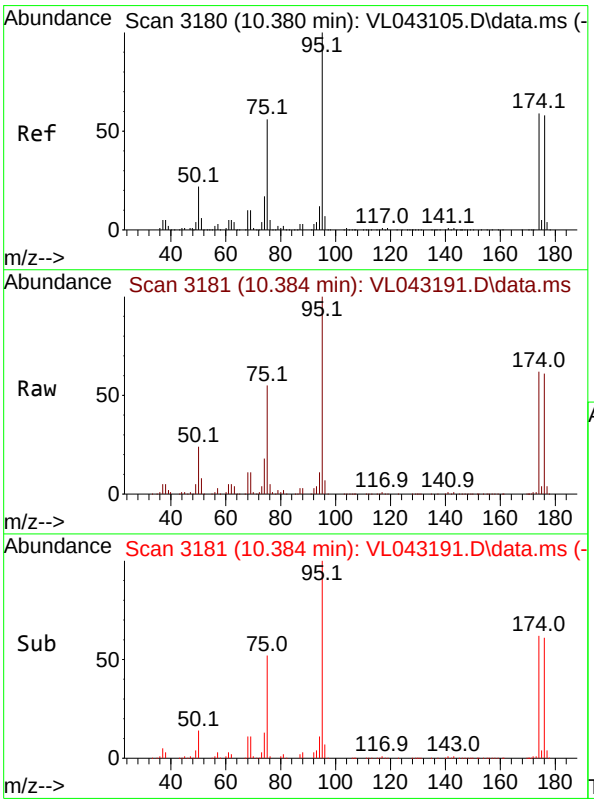
#67
sec-Butylbenzene
Concen: 11.092 ppbv
RT: 11.775 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 1102574

Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.5	23.3

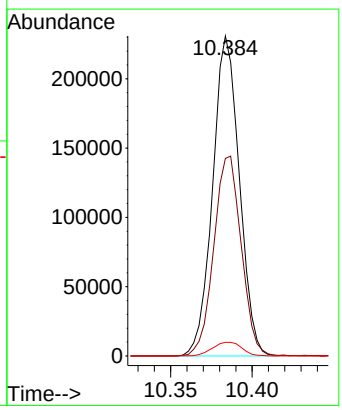


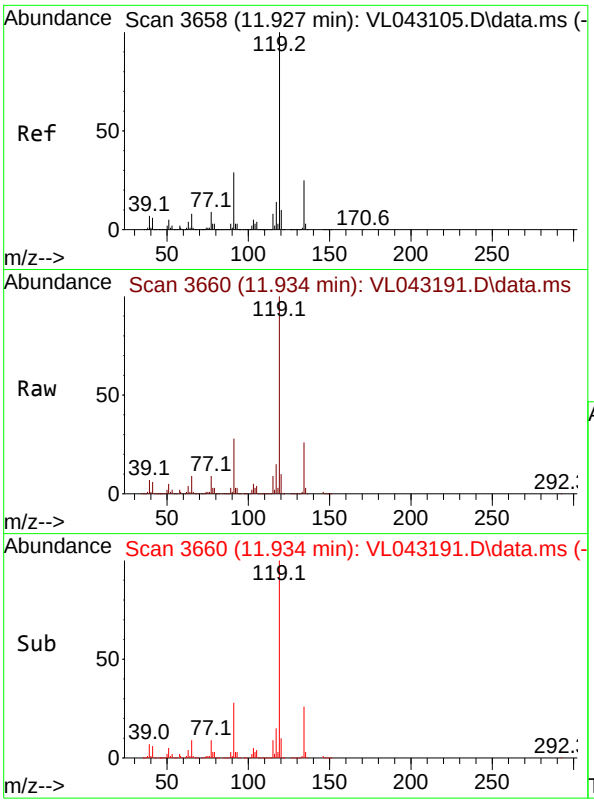


#68
1-Bromo-4-Fluorobenzene
Concen: 10.406 ppbv
RT: 10.384 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 95 Resp: 262602

Ion	Ratio	Lower	Upper
95	100		
174	64.5	48.3	72.5
175	4.8	3.8	5.8



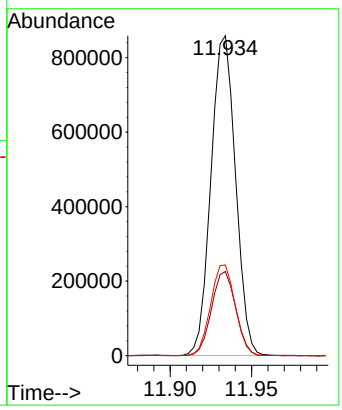


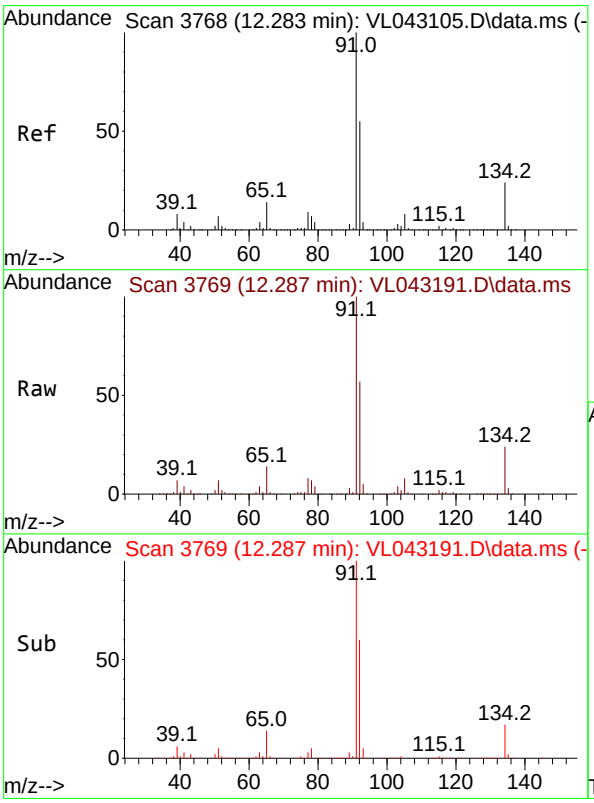
#69
p-Isopropyltoluene
Concen: 10.634 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 898238

Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.3	30.5
91	28.5	22.6	33.8

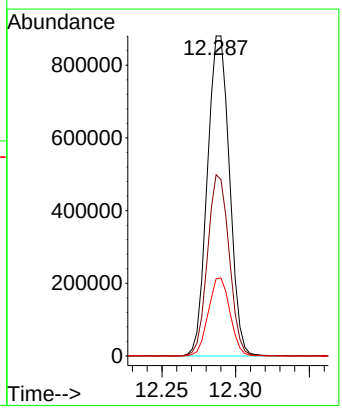


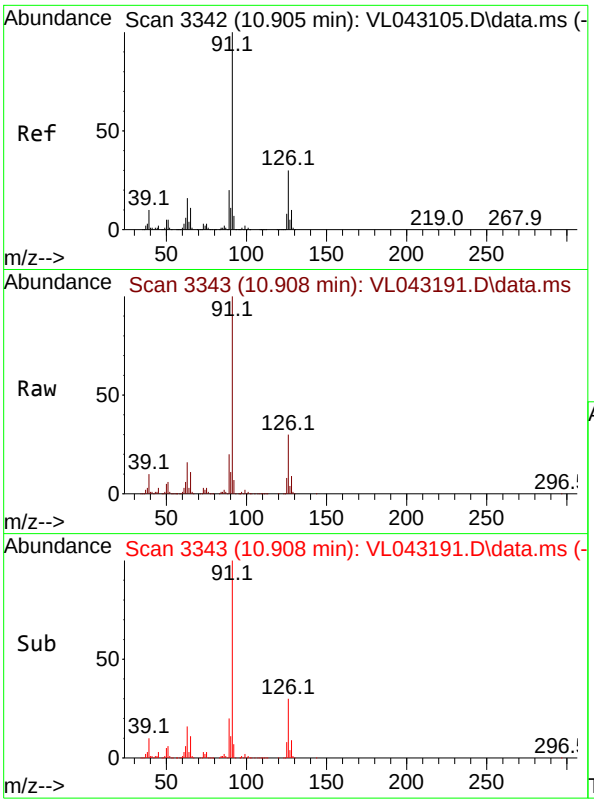


#70
n-Butylbenzene
Concen: 11.043 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion: 91 Resp: 919213

Ion	Ratio	Lower	Upper
91	100		
92	55.4	44.5	66.7
134	23.9	19.3	28.9



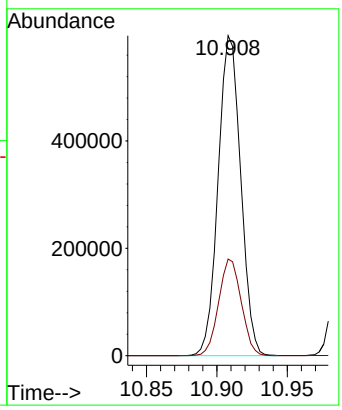


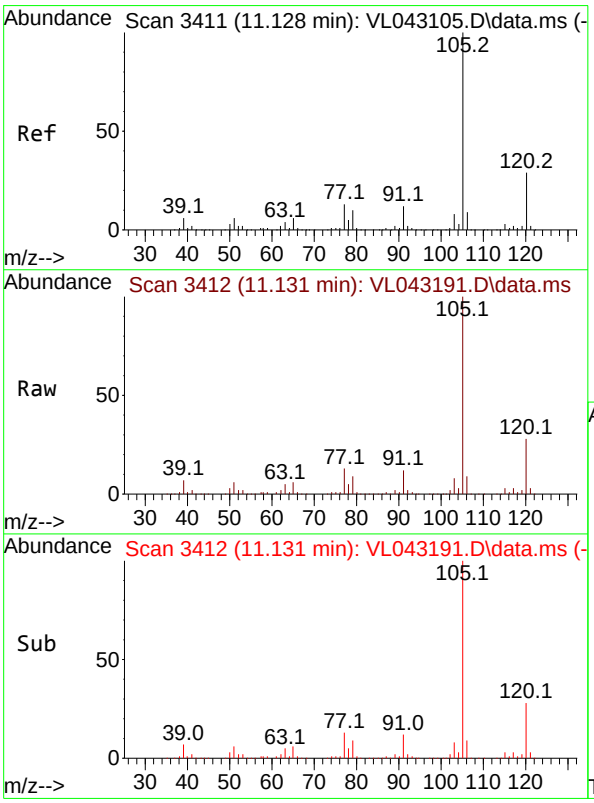
#71
2-Chlorotoluene
Concen: 11.000 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 665438

Ion	Ratio	Lower	Upper
91	100		
126	30.2	12.0	48.0

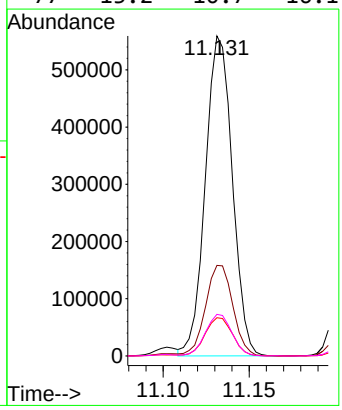


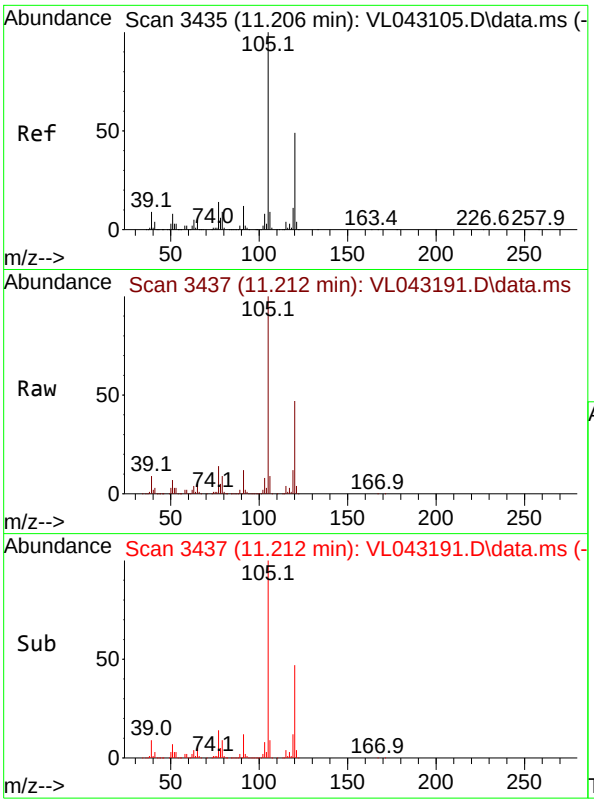


#72
4-Ethyltoluene
Concen: 11.307 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:105 Resp: 610233

Ion	Ratio	Lower	Upper
105	100		
120	29.3	24.2	36.4
91	12.6	10.0	15.0
77	13.2	10.7	16.1



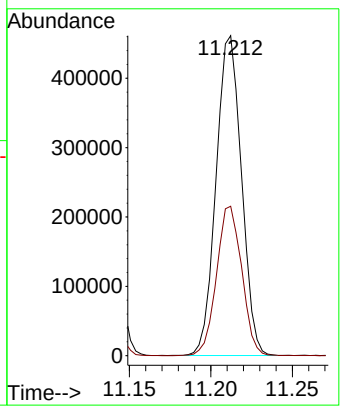


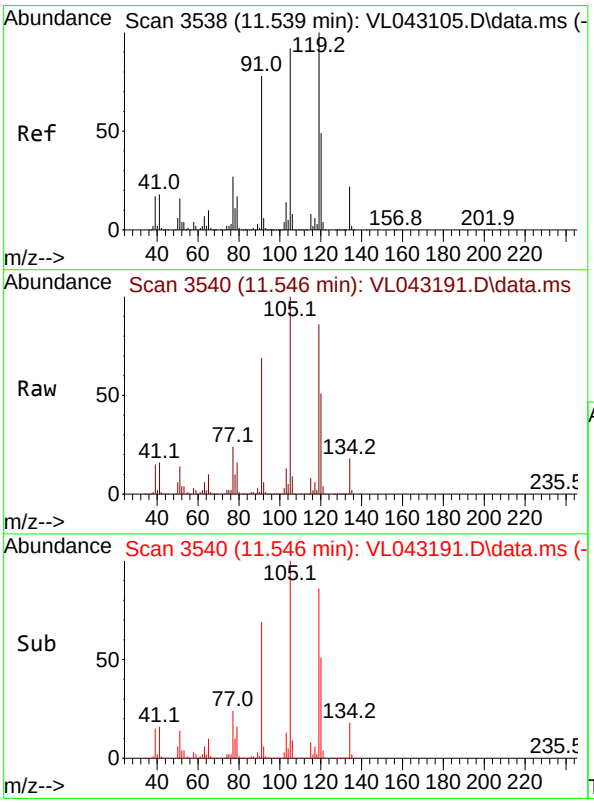
#73
1,3,5-Trimethylbenzene
Concen: 11.207 ppbv
RT: 11.212 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 498832

Ion	Ratio	Lower	Upper
105	100		
120	46.7	39.0	58.6

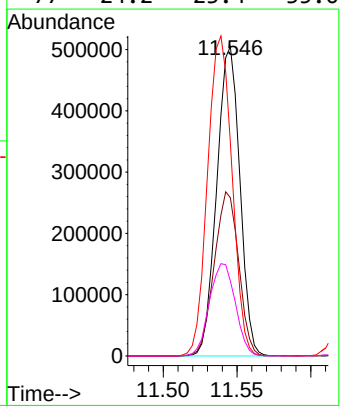


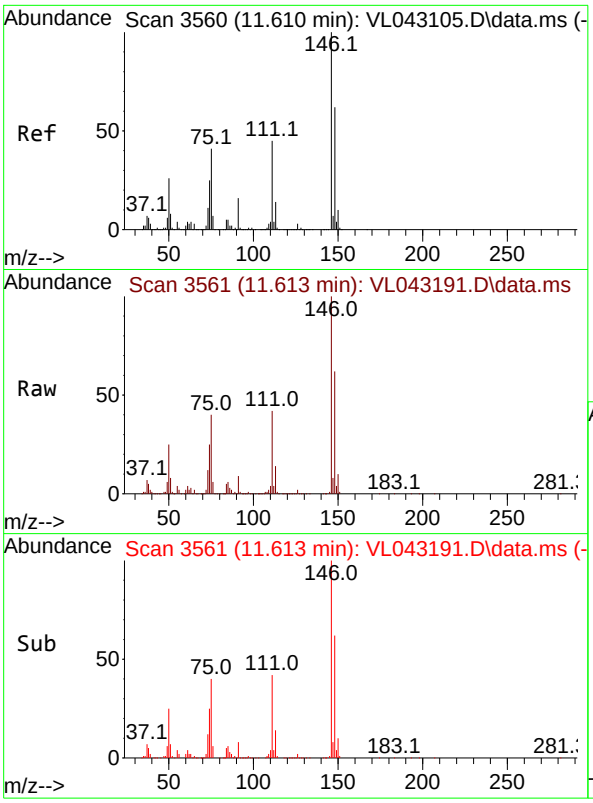


#74
1,2,4-Trimethylbenzene
Concen: 11.044 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:105 Resp: 550086

Ion	Ratio	Lower	Upper
105	100		
120	51.1	42.8	64.2
91	68.8	68.3	102.5
77	24.2	23.4	35.0



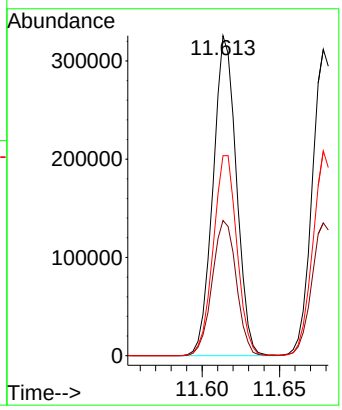


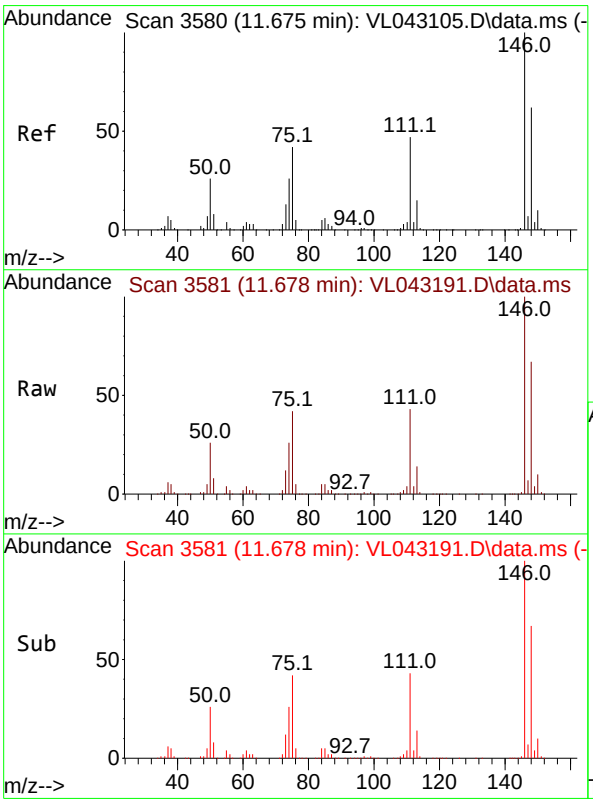
#75
1,3-Dichlorobenzene
Concen: 11.801 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 340928

Ion	Ratio	Lower	Upper
146	100		
111	43.7	23.3	69.9
148	63.7	31.6	95.0

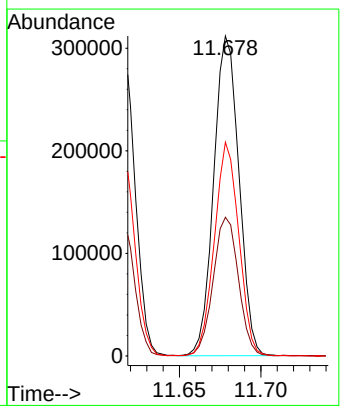


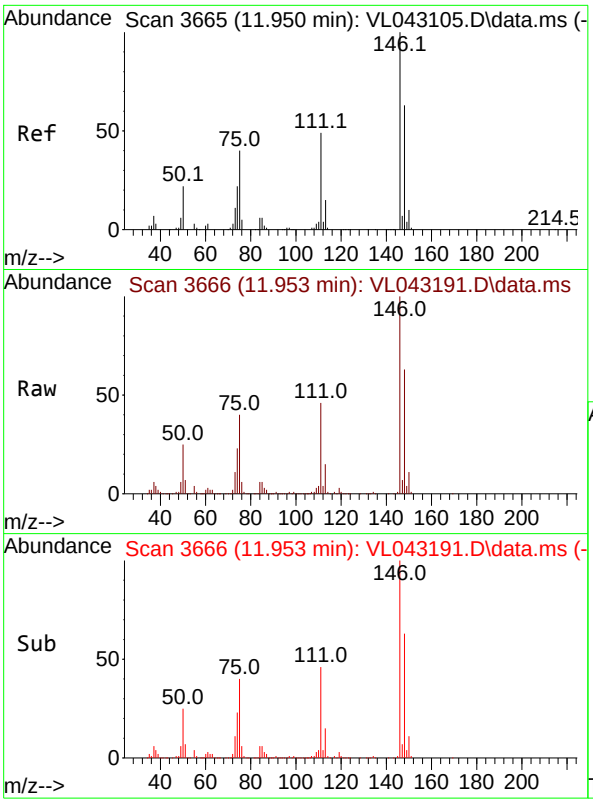


#76
1,4-Dichlorobenzene
Concen: 11.518 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:146 Resp: 335522

Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.4	67.0
148	64.9	31.6	94.7



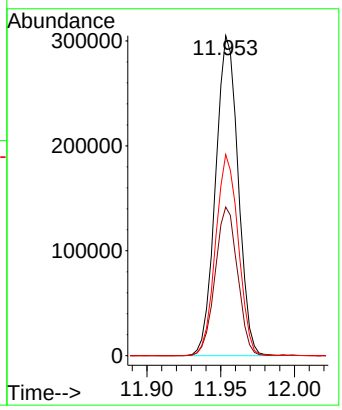


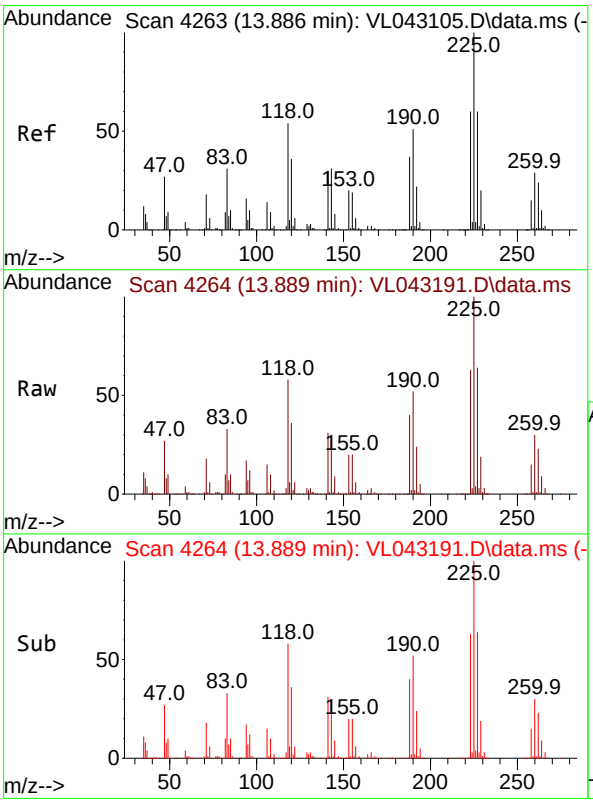
#77
1,2-Dichlorobenzene
Concen: 11.620 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 324755

Ion	Ratio	Lower	Upper
146	100		
111	46.3	24.0	72.0
148	63.4	31.1	93.3

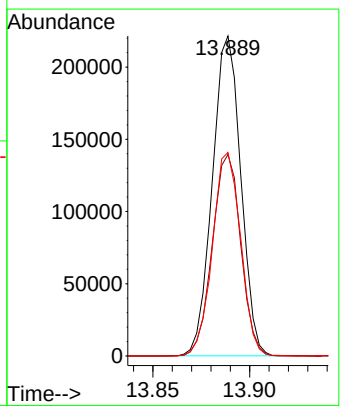


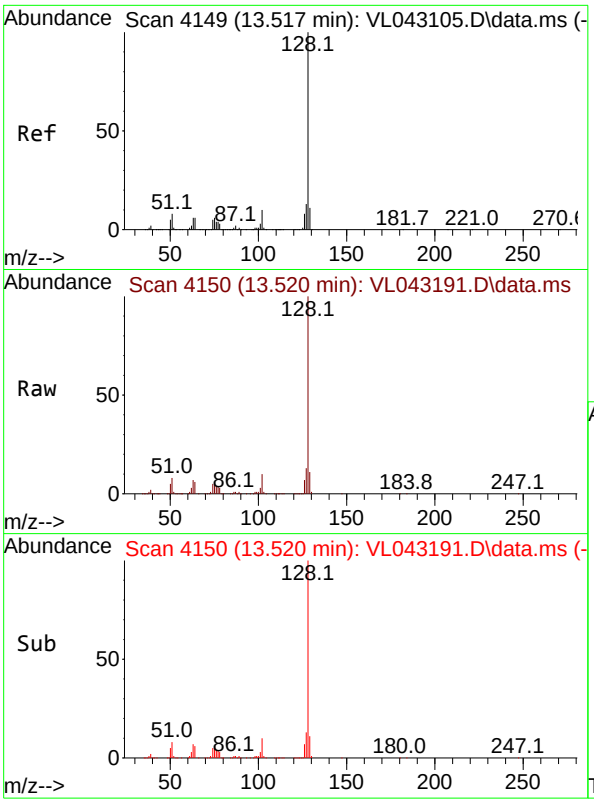


#78
Hexachloro-1,3-Butadiene
Concen: 10.443 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:225 Resp: 225968

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.4
227	63.1	49.6	74.4



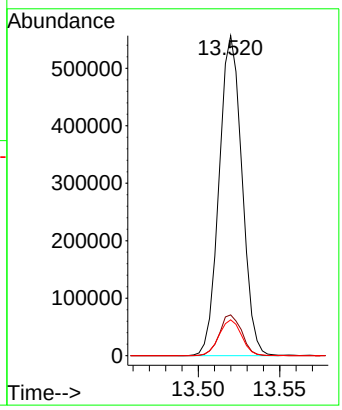


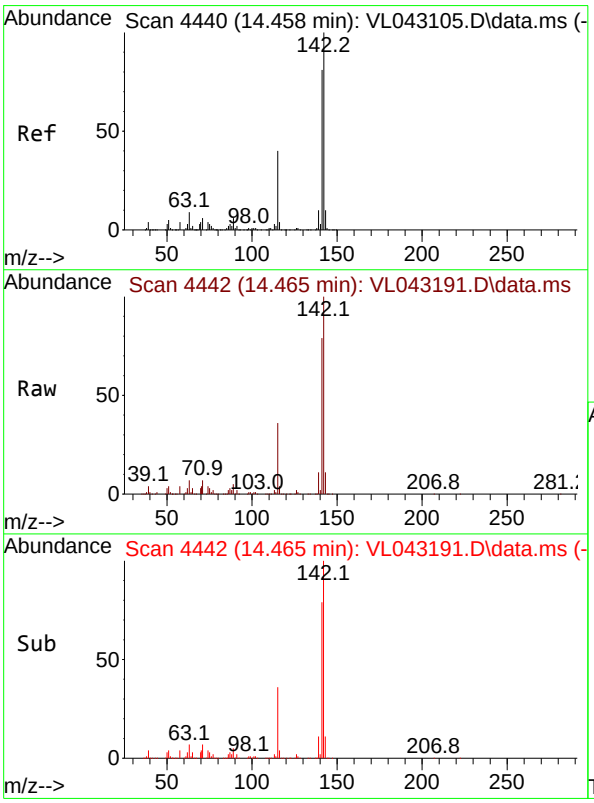
#79
Naphthalene
Concen: 10.430 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:128 Resp: 543024

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	11.2	9.1	13.7

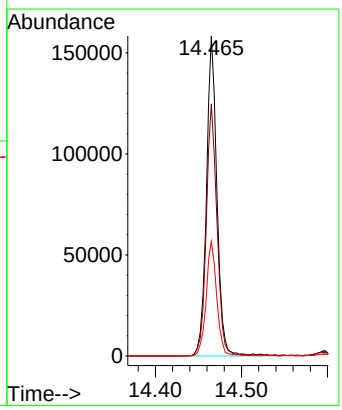


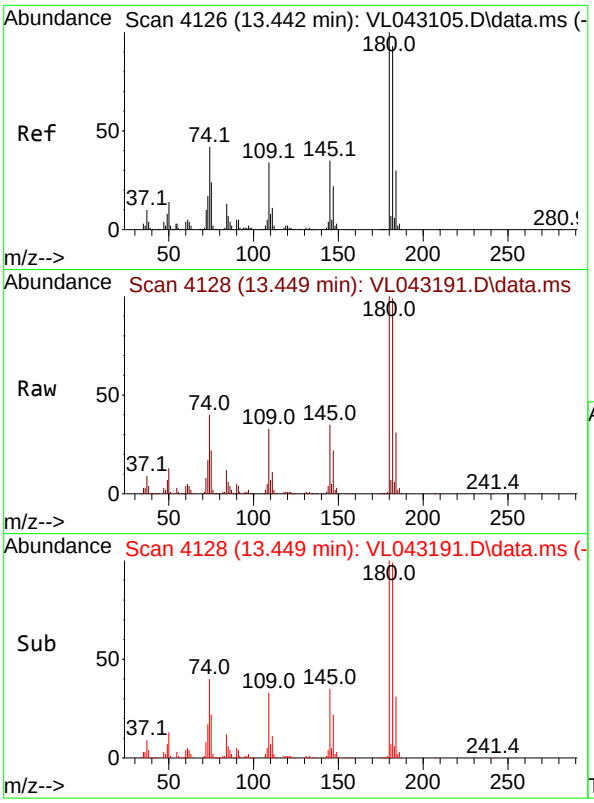


#80
Naphthalene,2-methyl-
Concen: 9.870 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Tgt Ion:142 Resp: 133878

Ion	Ratio	Lower	Upper
142	100		
141	81.5	64.6	97.0
115	36.8	30.2	45.4



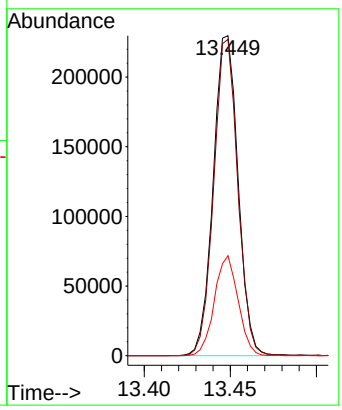


#81
1,2,4-Trichlorobenzene
Concen: 10.671 ppbv
RT: 13.449 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043191.D
Acq: 13 Nov 2025 09:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:180 Resp: 230586

Ion	Ratio	Lower	Upper
180	100		
182	95.9	75.5	113.3
184	29.9	23.9	35.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043193.D
Acq On : 13 Nov 2025 10:53
Operator : SY/MD
Sample : VL1113ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Quant Time: Nov 14 04:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	140848	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	381641	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	326347	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	258637	10.196	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	189933	9.485	ppbv	100
3) Chlorodifluoromethane	1.479	51	208224	9.611	ppbv	100
4) Chloromethane	1.538	50	66230	8.349	ppbv	99
5) Vinyl Chloride	1.583	62	65244	8.386	ppbv	99
6) Bromomethane	1.674	94	40543	9.503	ppbv	99
7) Chloroethane	1.709	64	26713	8.397	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	150613	9.306	ppbv	91
9) Propene	1.486	41	83462	8.686	ppbv	96
10) Heptane	4.994	43	260465	9.416	ppbv	99
11) Trichlorofluoromethane	1.884	101	205038	10.468	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	158562	10.056	ppbv	98
13) Ethanol	1.725	45	23269	6.547	ppbv	95
14) Bromoethene	1.787	108	56772	9.692	ppbv	97
15) Acetone	1.839	43	160664	8.463	ppbv	100
16) 1,3-Butadiene	1.612	39	72141	7.974	ppbv	99
17) tert-Butyl alcohol	2.043	59	217484	8.346	ppbv	99
18) 1,1-Dichloroethene	2.039	96	69052	10.045	ppbv	88
19) Isopropyl Alcohol	1.890	45	92184	7.796	ppbv	91
20) Methylene Chloride	2.065	84	60706	8.090	ppbv	95
21) Allyl Chloride	2.101	41	119083	8.513	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	79043	9.619	ppbv	91
23) Vinyl Acetate	2.467	43	285067	10.251	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	150976	9.509	ppbv	99
25) Ethyl Acetate	2.839	43	467192	9.924	ppbv	99
26) Hexane	2.836	57	206119	9.502	ppbv	98
27) Carbon Disulfide	2.156	76	195762	9.849	ppbv	98
28) Methyl tert-Butyl Ether	2.444	73	80192	8.126	ppbv	94
29) Chloroform	2.855	83	309209	9.837	ppbv	99
30) Cyclohexane	3.868	84	163223	8.621	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	196567	9.489	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	294760	9.005	ppbv	97
34) 2-Butanone	2.560	43	306642	11.953	ppbv	99
35) Carbon Tetrachloride	3.774	117	307371	11.202	ppbv	98
36) Benzene	3.664	78	401100	11.159	ppbv	98
37) 1,2-Dichloroethane	3.224	62	228931	11.056	ppbv	98
38) Trichloroethene	4.561	130	148220	9.873	ppbv	98
39) 1,2-Dichloropropane	4.324	63	146018	11.112	ppbv	95
40) 1,4-Dioxane	4.590	88	60137	10.227	ppbv #	95
41) Tetrahydrofuran	3.059	42	159113	11.089	ppbv	96
42) Bromodichloromethane	4.499	83	329652	11.502	ppbv	99
43) Methyl Methacrylate	4.888	69	188689	10.336	ppbv	97
44) 2,2,4-Trimethylpentane	4.655	57	691827	11.408	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	175660	9.588	ppbv	96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043193.D
Acq On : 13 Nov 2025 10:53
Operator : SY/MD
Sample : VL1113ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Quant Time: Nov 14 04:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	222196	10.153	ppbv		96
47) 1,1,2-Trichloroethane	6.593	97	159359	11.230	ppbv		96
48) Dibromochloromethane	7.396	129	258701	10.903	ppbv		98
49) Bromoform	9.490	173	221619	11.491	ppbv		100
50) 4-Methyl-2-Pentanone	5.761	43	385105	10.877	ppbv		99
51) 2-Hexanone	7.444	43	289935	10.918	ppbv	#	97
52) Tetrachloroethene	8.234	164	133238	10.279	ppbv		97
53) Toluene	6.946	91	428768	10.051	ppbv		99
54) 1,2-Dibromoethane	7.661	107	236351	10.633	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.933	131	240077	11.670	ppbv		100
57) Chlorobenzene	8.930	112	337602	11.058	ppbv		99
58) Ethyl Benzene	9.364	91	594417	10.613	ppbv		99
59) m/p-Xylene	9.539	91	490348	10.976	ppbv	#	29
60) o-Xylene	9.972	91	487054	11.039	ppbv		100
61) Styrene	9.878	104	198117	9.947	ppbv		98
62) Isopropylbenzene	10.545	105	876032	10.988	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.969	83	335111	11.343	ppbv		100
64) n-propylbenzene	10.995	120	228911	10.845	ppbv		91
65) tert-Butylbenzene	11.536	119	750836	10.665	ppbv		100
66) Benzyl Chloride	11.623	91	68177	8.701	ppbv		99
67) sec-Butylbenzene	11.775	105	1088172	10.891	ppbv		99
69) p-Isopropyltoluene	11.934	119	901546	10.618	ppbv		99
70) n-Butylbenzene	12.287	91	917214	10.962	ppbv		99
71) 2-Chlorotoluene	10.908	91	661575	10.880	ppbv		100
72) 4-Ethyltoluene	11.131	105	603491	11.124	ppbv		100
73) 1,3,5-Trimethylbenzene	11.212	105	496215	11.091	ppbv		97
74) 1,2,4-Trimethylbenzene	11.545	105	543655	10.858	ppbv	#	84
75) 1,3-Dichlorobenzene	11.613	146	334602	11.522	ppbv		99
76) 1,4-Dichlorobenzene	11.678	146	337741	11.534	ppbv		98
77) 1,2-Dichlorobenzene	11.953	146	321835	11.456	ppbv		97
78) Hexachloro-1,3-Butadiene	13.889	225	222076	10.210	ppbv		99
79) Naphthalene	13.520	128	535902	10.240	ppbv		99
80) Naphthalene,2-methyl-	14.465	142	136849	10.037	ppbv		97
81) 1,2,4-Trichlorobenzene	13.445	180	232626	10.710	ppbv		99

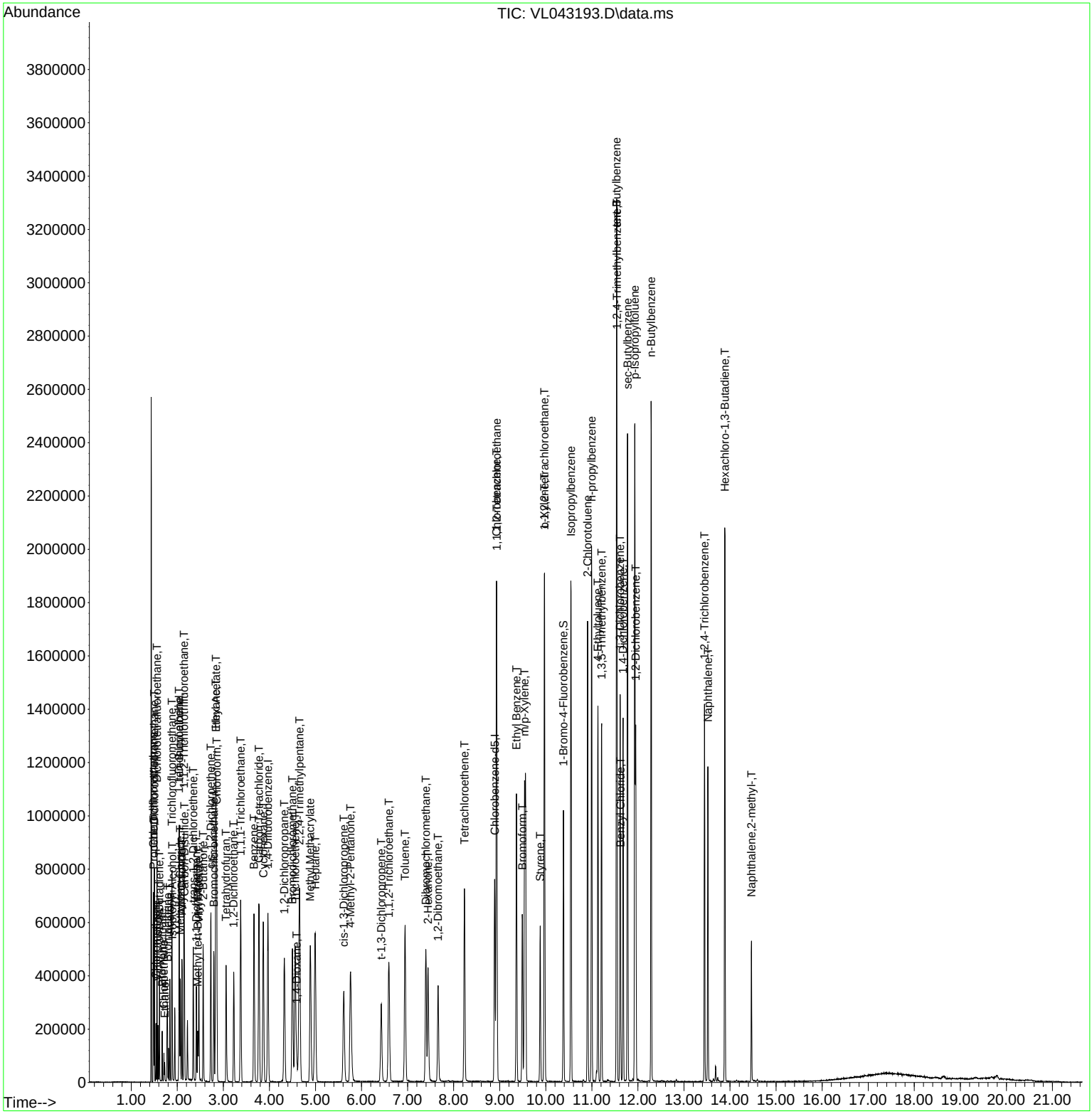
(#) = qualifier out of range (m) = manual integration (+) = signals summed

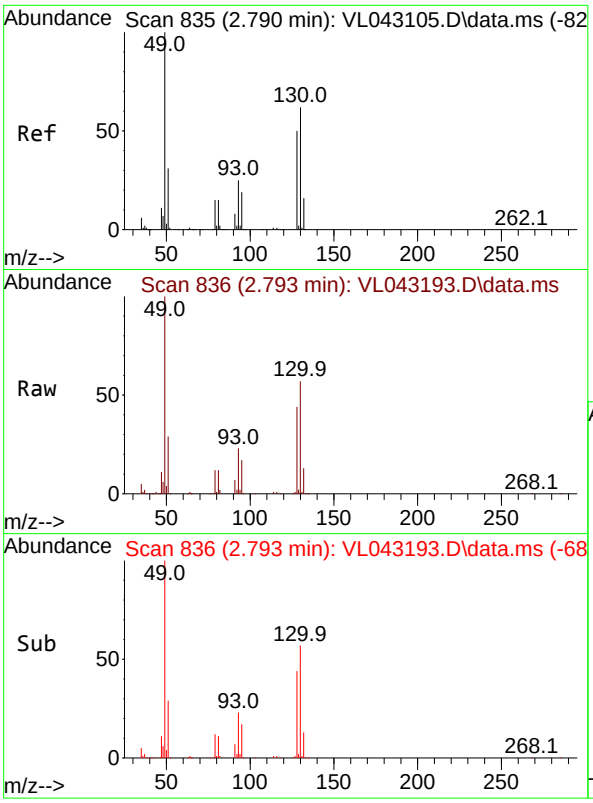
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043193.D
Acq On : 13 Nov 2025 10:53
Operator : SY/MD
Sample : VL1113ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Quant Time: Nov 14 04:36:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



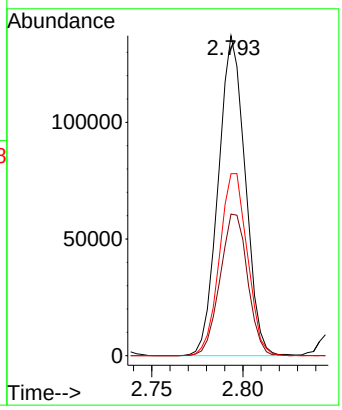


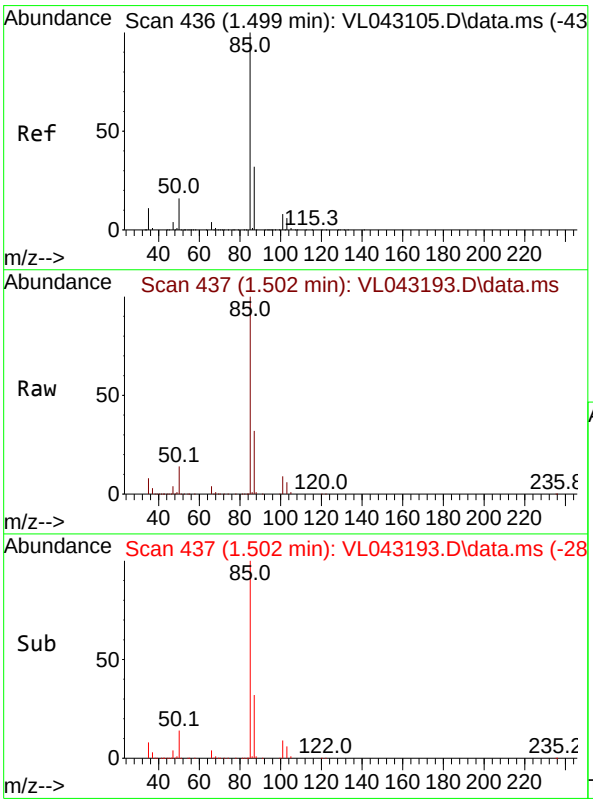
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 49 Resp: 140848

Ion	Ratio	Lower	Upper
49	100		
128	45.4	24.4	73.4
130	59.0	31.0	93.0

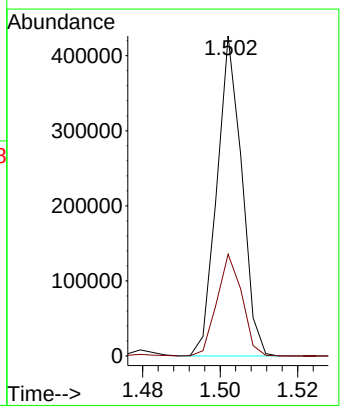


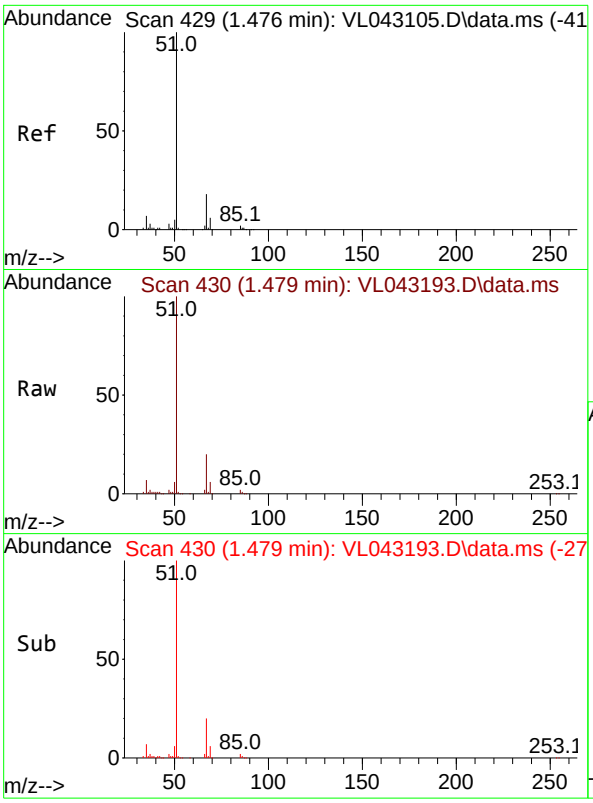


#2
Dichlorodifluoromethane
Concen: 9.485 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 85 Resp: 189933

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.3	37.9



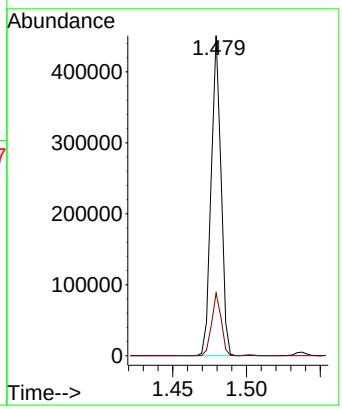


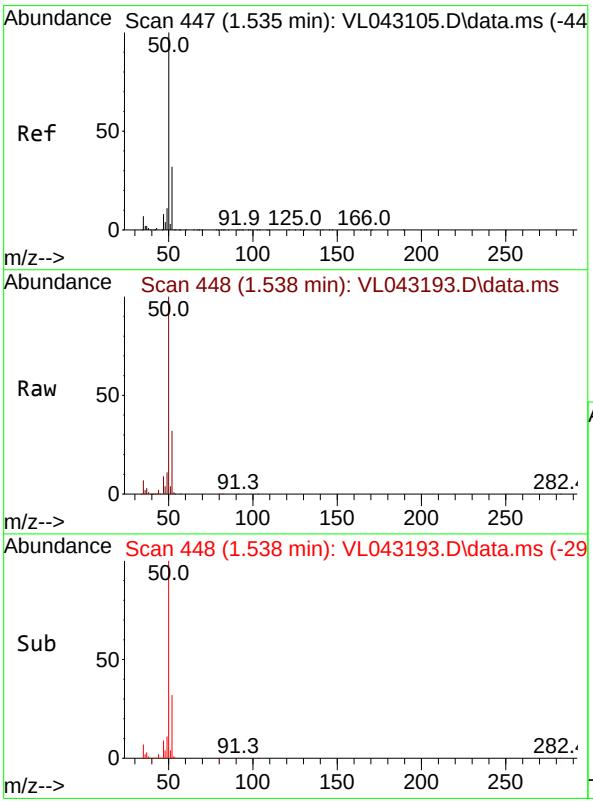
#3
Chlorodifluoromethane
Concen: 9.611 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 51 Resp: 208224

Ion	Ratio	Lower	Upper
51	100		
67	19.1	15.1	22.7

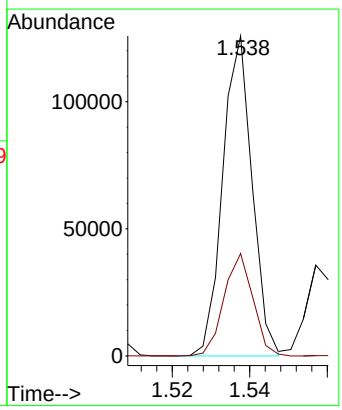


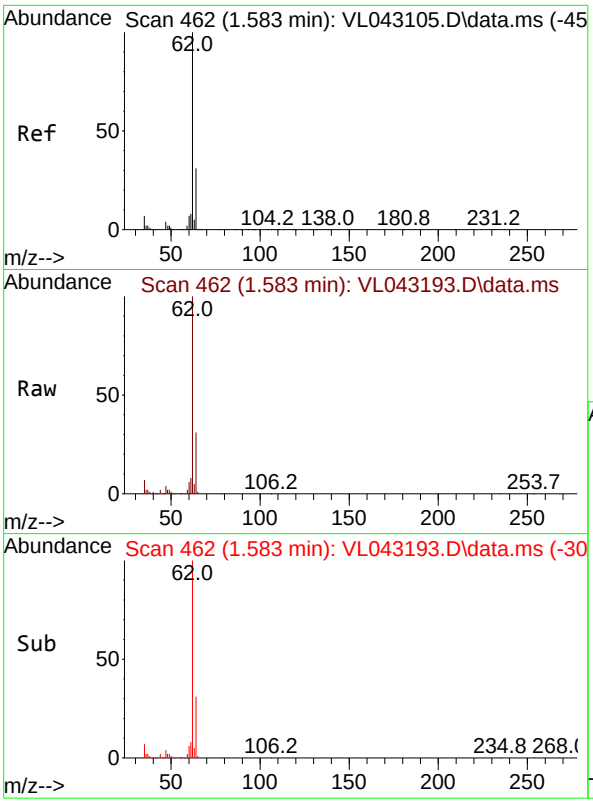


#4
Chloromethane
Concen: 8.349 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 50 Resp: 66230

Ion	Ratio	Lower	Upper
50	100		
52	32.0	25.2	37.8



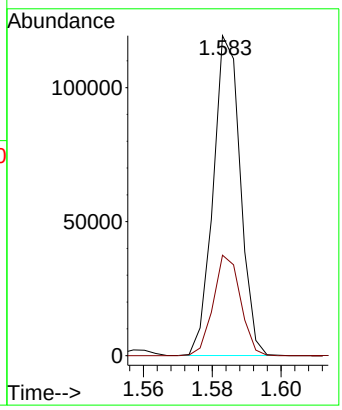


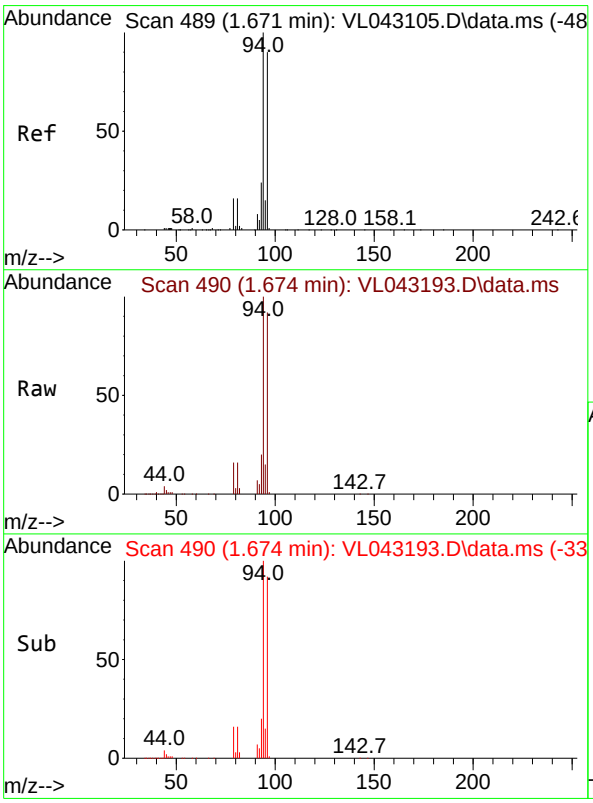
#5
Vinyl Chloride
Concen: 8.386 ppbv
RT: 1.583 min Scan# 4(
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 62 Resp: 65244

Ion	Ratio	Lower	Upper
62	100		
64	31.4	24.6	36.8

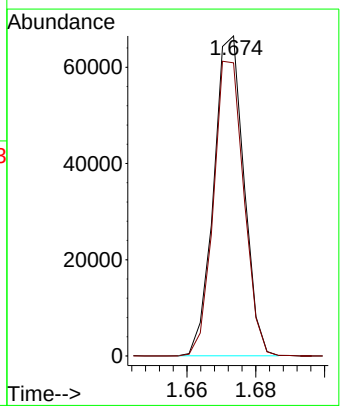


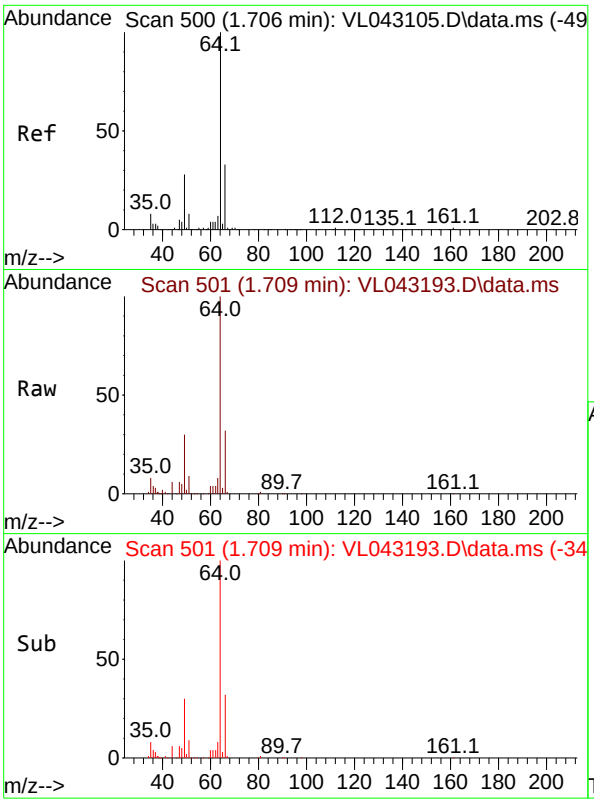


#6
Bromomethane
Concen: 9.503 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 94 Resp: 40543

Ion	Ratio	Lower	Upper
94	100		
96	91.7	72.2	108.4



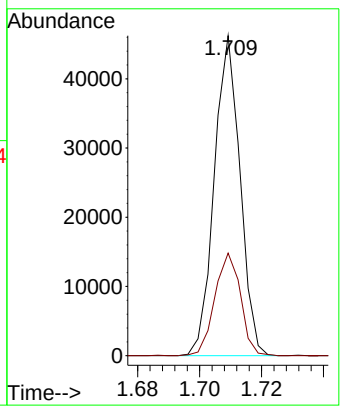


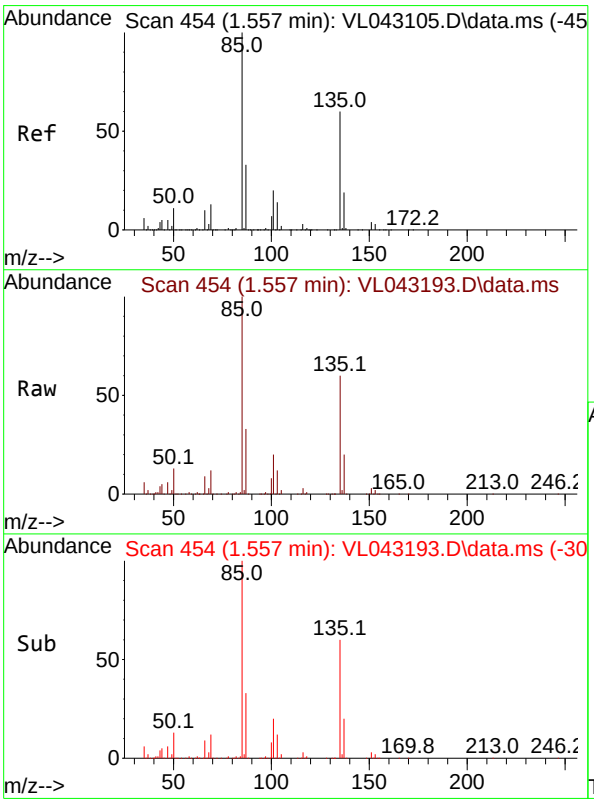
#7
Chloroethane
Concen: 8.397 ppbv
RT: 1.709 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 64 Resp: 26713

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.0	39.0

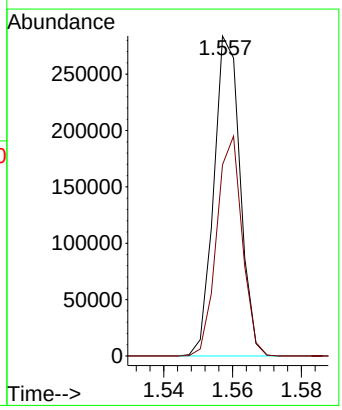


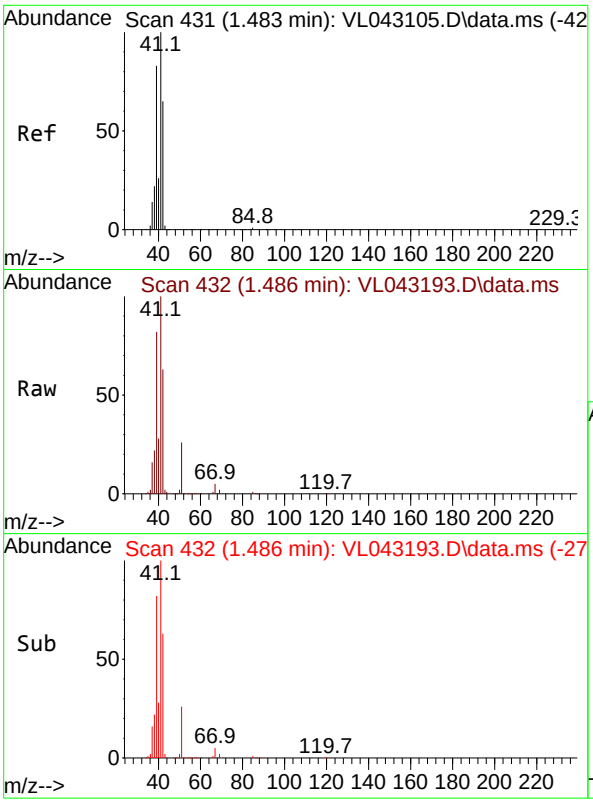


#8
Dichlorotetrafluoroethane
Concen: 9.306 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 85 Resp: 150613

Ion	Ratio	Lower	Upper
85	100		
135	66.8	48.2	72.4



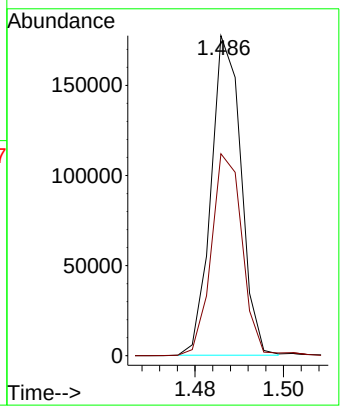


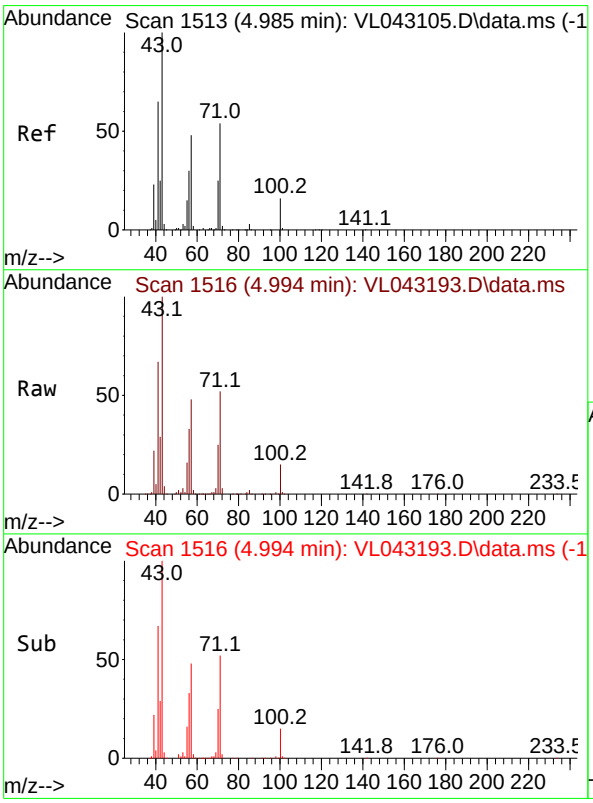
#9
Propene
Concen: 8.686 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 41 Resp: 83462

Ion	Ratio	Lower	Upper
41	100		
42	65.8	55.1	82.7

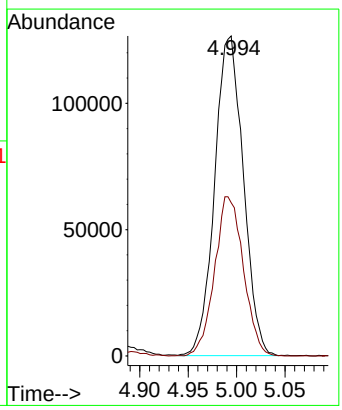


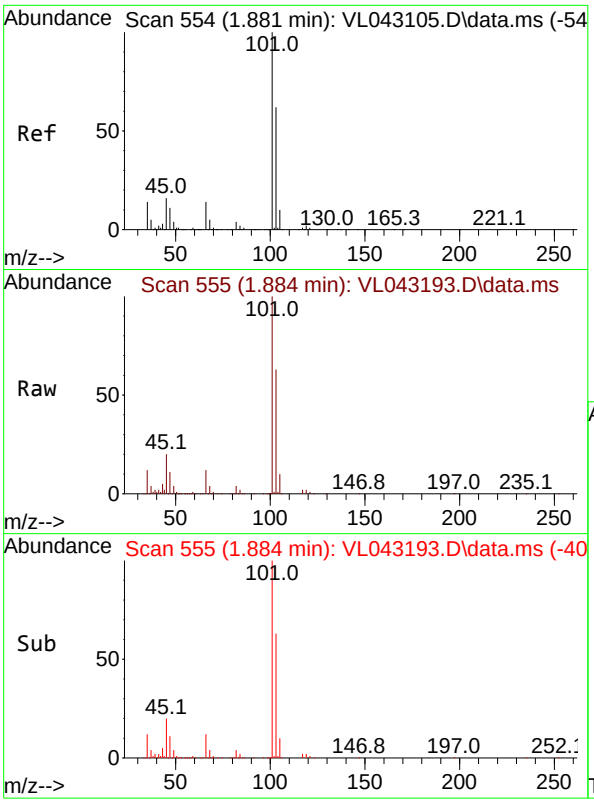


#10
Heptane
Concen: 9.416 ppbv
RT: 4.994 min Scan# 1516
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 43 Resp: 260465

Ion	Ratio	Lower	Upper
43	100		
57	50.2	40.8	61.2



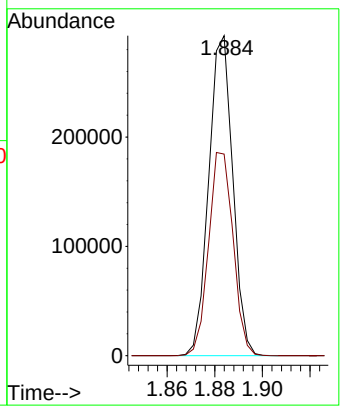


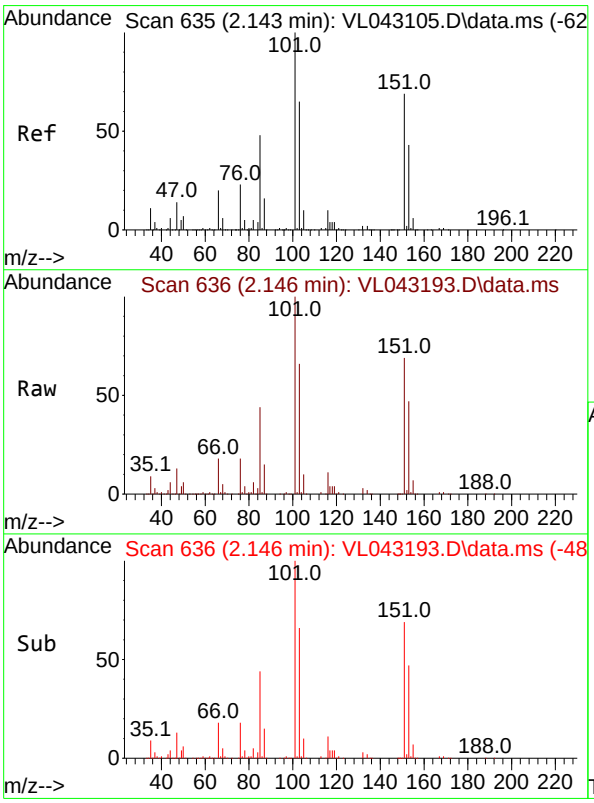
#11
Trichlorofluoromethane
Concen: 10.468 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:101 Resp: 205038

Ion	Ratio	Lower	Upper
101	100		
103	63.0	49.3	73.9

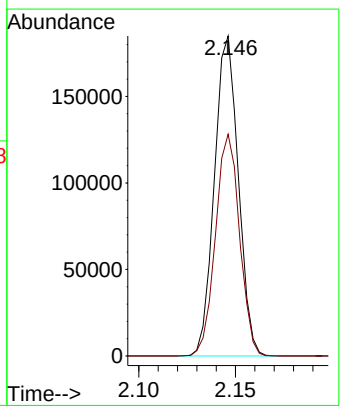


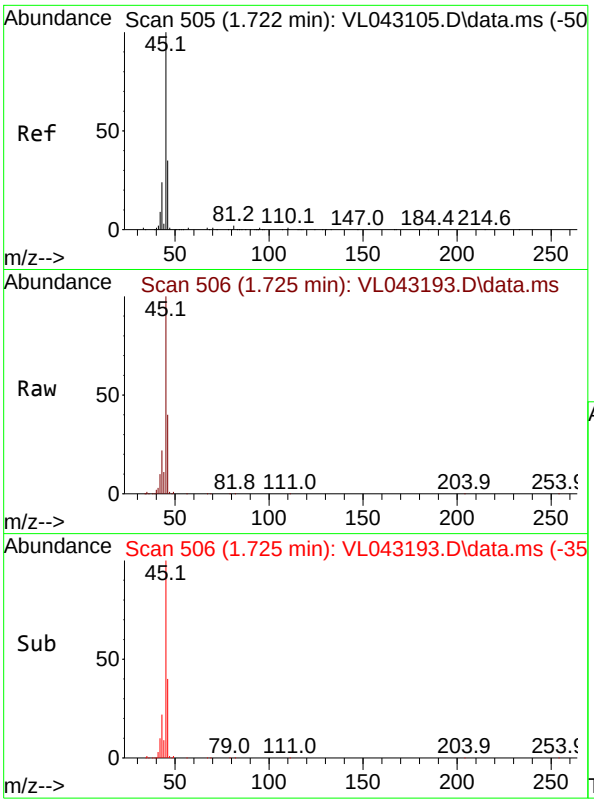


#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.056 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:101 Resp: 158562

Ion	Ratio	Lower	Upper
101	100		
151	69.7	54.7	82.1



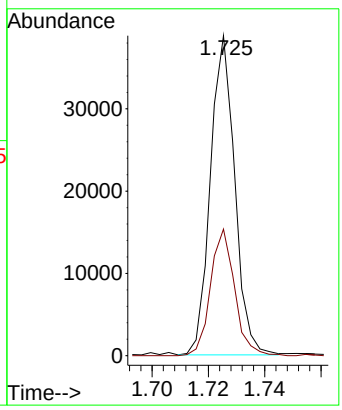


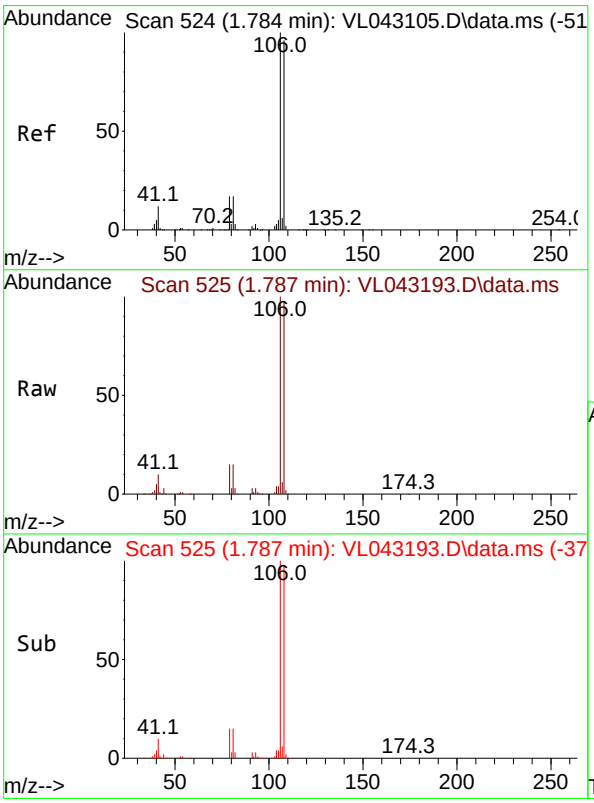
#13
Ethanol
Concen: 6.547 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 45 Resp: 23269

Ion	Ratio	Lower	Upper
45	100		
46	39.5	14.7	58.9

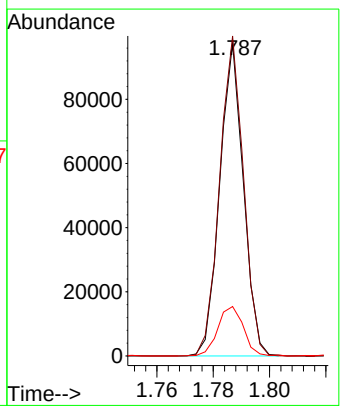


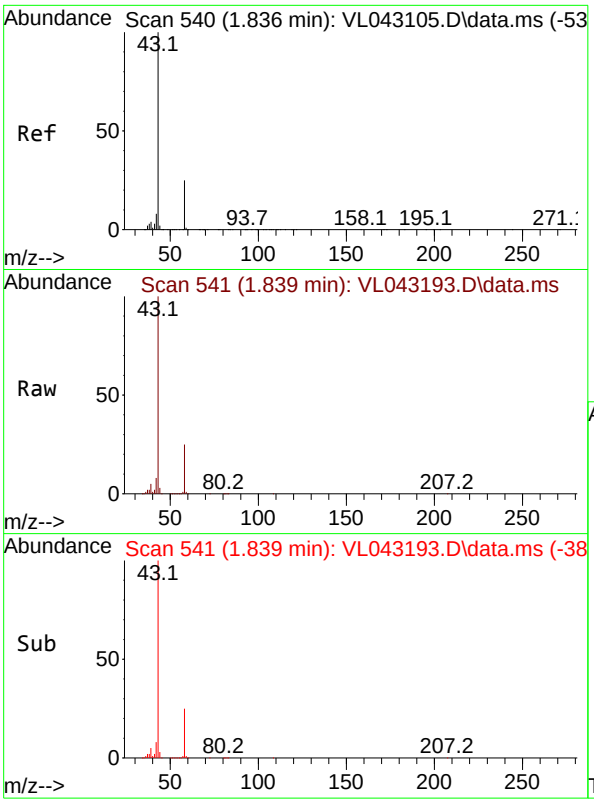


#14
Bromoethene
Concen: 9.692 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:108 Resp: 56772

Ion	Ratio	Lower	Upper
108	100		
106	103.1	84.4	126.6
79	17.2	15.3	22.9



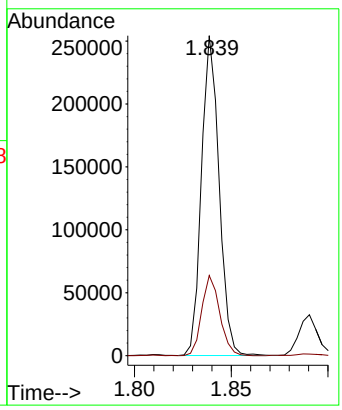


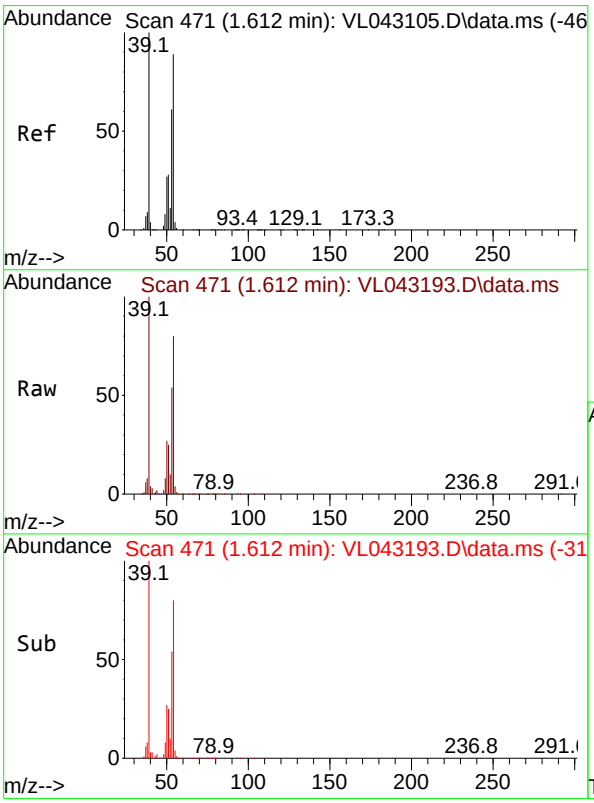
#15
Acetone
Concen: 8.463 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 43 Resp: 160664

Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.8	31.2

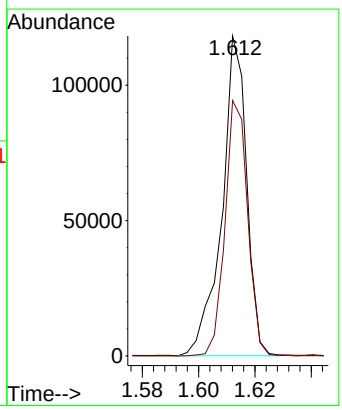


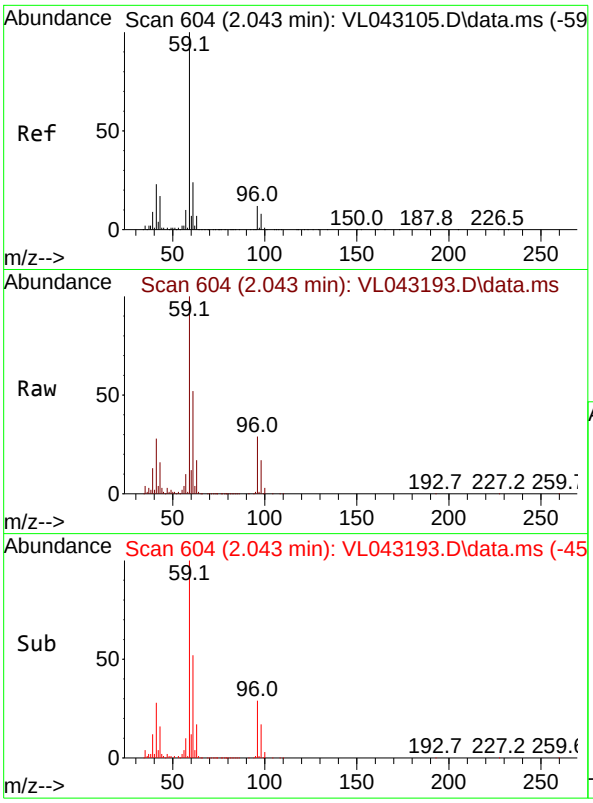


#16
1,3-Butadiene
Concen: 7.974 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 39 Resp: 72141

Ion	Ratio	Lower	Upper
39	100		
54	72.9	59.0	88.4



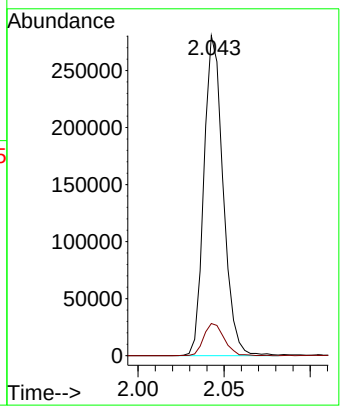


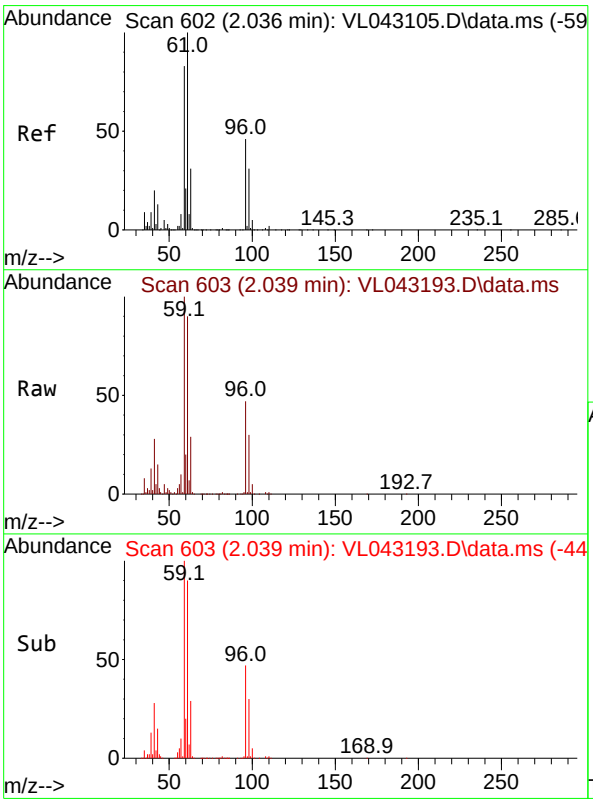
#17
tert-Butyl alcohol
Concen: 8.346 ppbv
RT: 2.043 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 59 Resp: 217484

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.2	12.4

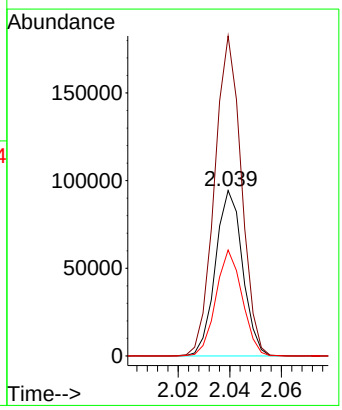


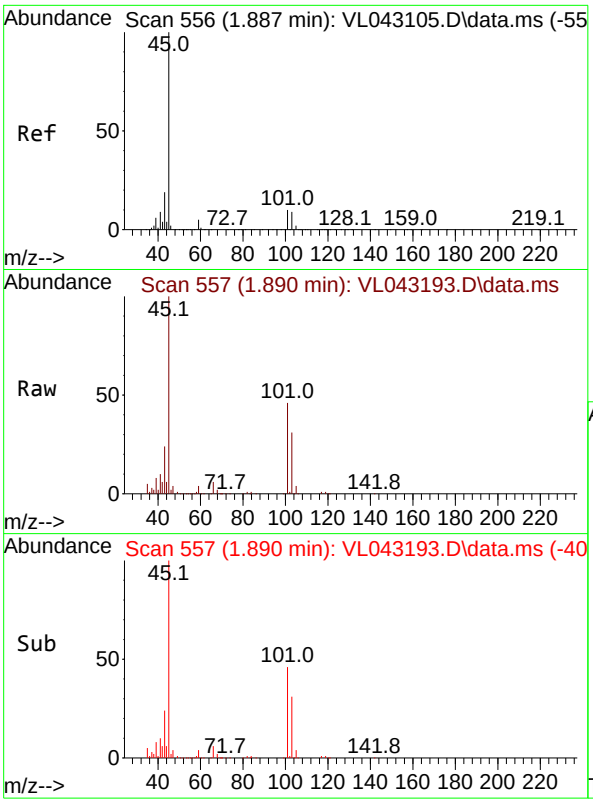


#18
1,1-Dichloroethene
Concen: 10.045 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 96 Resp: 69052

Ion	Ratio	Lower	Upper
96	100		
61	193.3	173.4	260.0
98	64.1	53.2	79.8



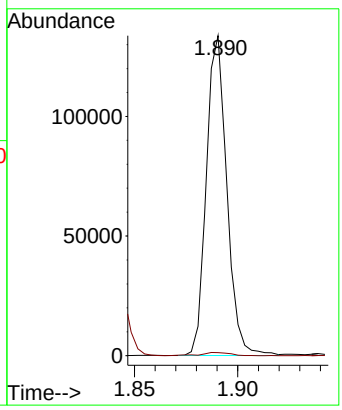


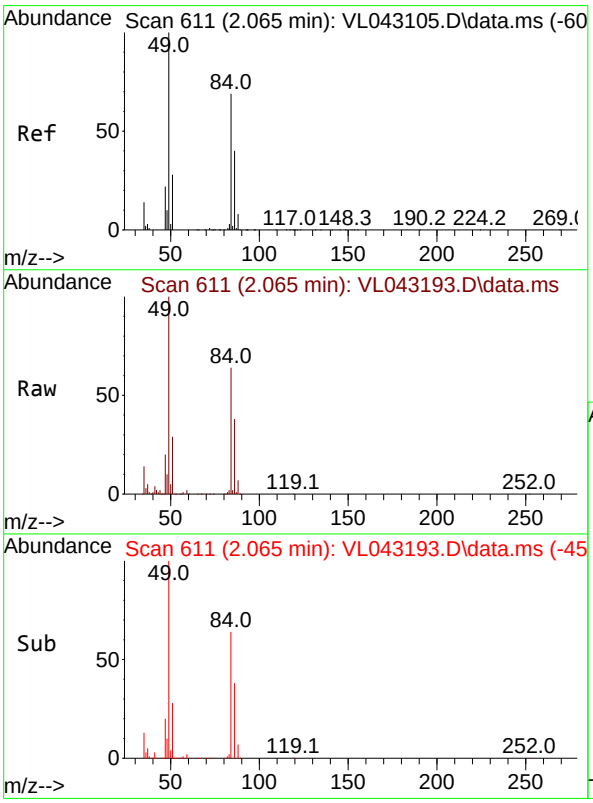
#19
Isopropyl Alcohol
Concen: 7.796 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 45 Resp: 92184

Ion	Ratio	Lower	Upper
45	100		
58	44.8	31.3	46.9

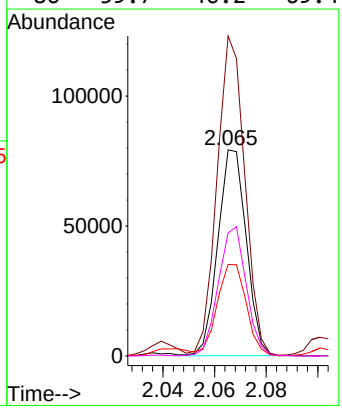


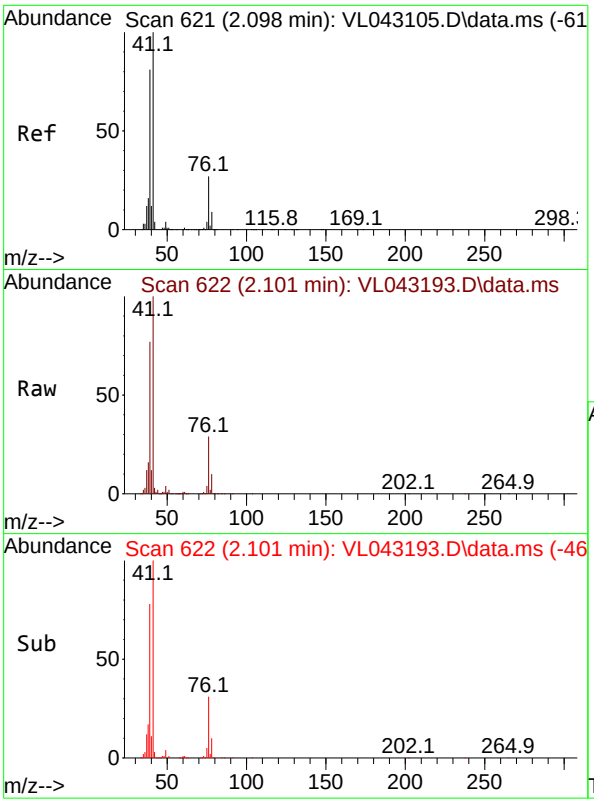


#20
Methylene Chloride
Concen: 8.090 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 84 Resp: 60706

Ion	Ratio	Lower	Upper
84	100		
49	155.1	116.6	175.0
51	44.3	34.8	52.2
86	59.7	46.2	69.4



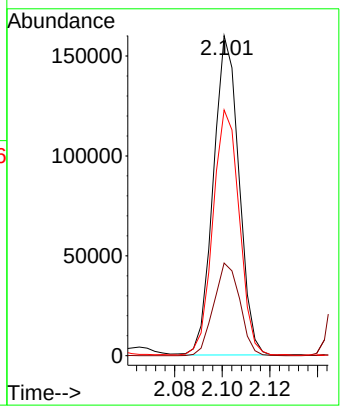


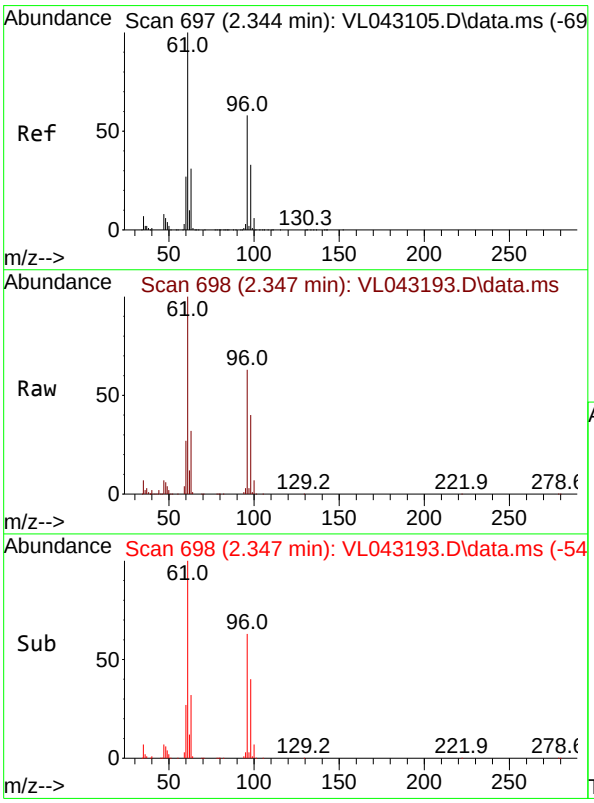
#21
Allyl Chloride
Concen: 8.513 ppbv
RT: 2.101 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 41 Resp: 119083

Ion	Ratio	Lower	Upper
41	100		
76	29.7	21.5	32.3
39	79.4	60.8	91.2

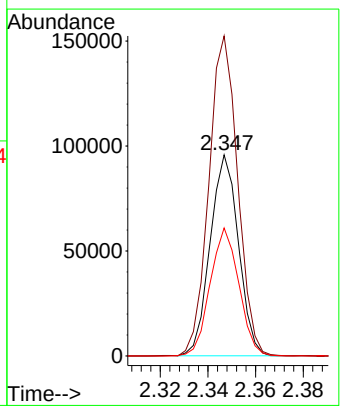


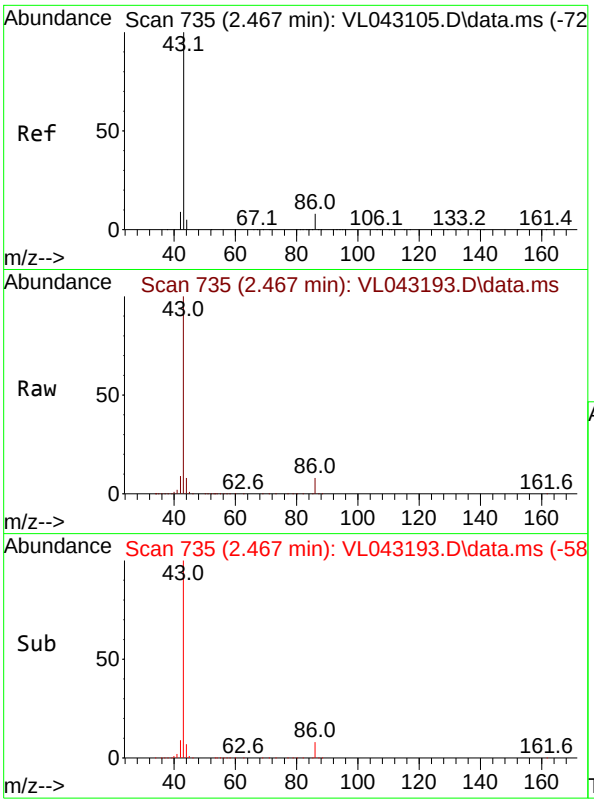


#22
trans-1,2-Dichloroethene
Concen: 9.619 ppbv
RT: 2.347 min Scan# 698
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 96 Resp: 79043

Ion	Ratio	Lower	Upper
96	100		
61	159.2	137.0	205.6
98	63.5	45.5	68.3



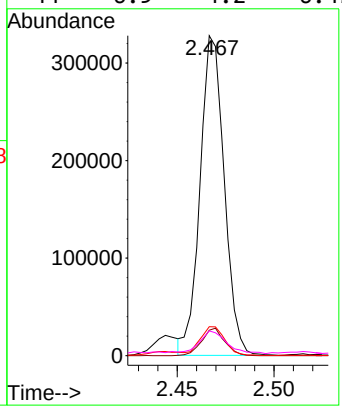


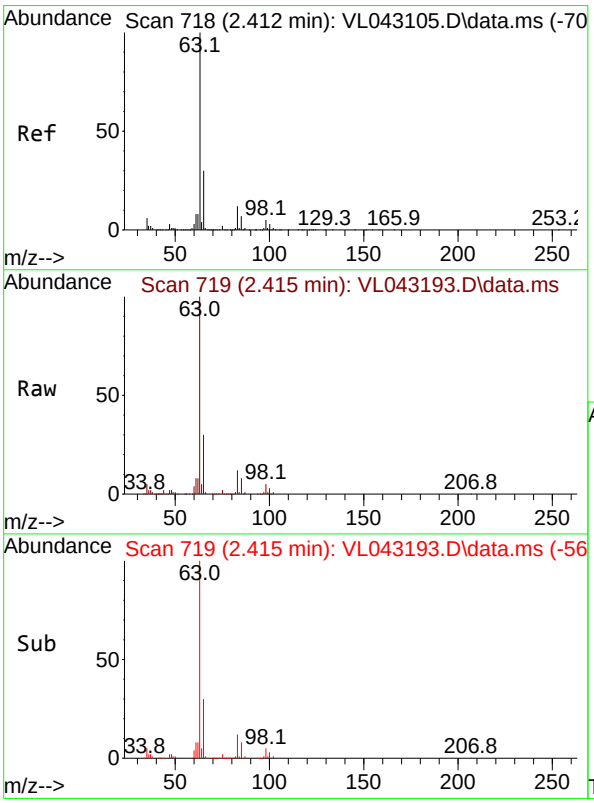
#23
Vinyl Acetate
Concen: 10.251 ppbv
RT: 2.467 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 43 Resp: 285067

Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.2	9.2
42	8.9	7.6	11.4
44	6.9	4.2	6.4#

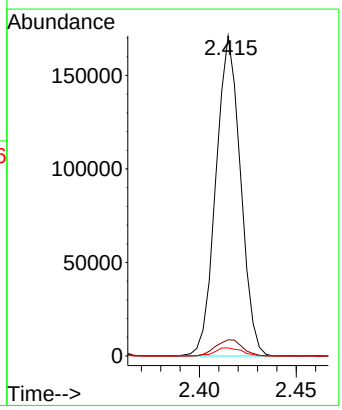


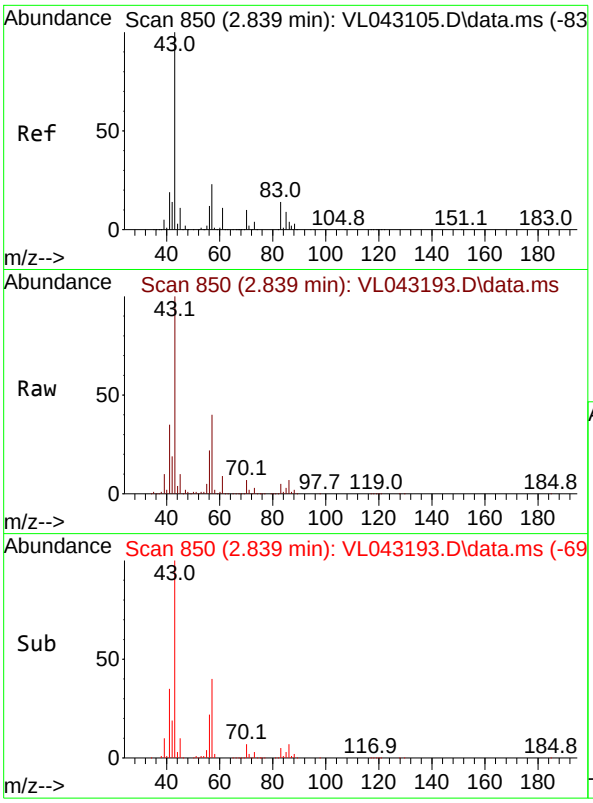


#24
1,1-Dichloroethane
Concen: 9.509 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 63 Resp: 150976

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.6	7.8
100	2.5	1.5	4.4



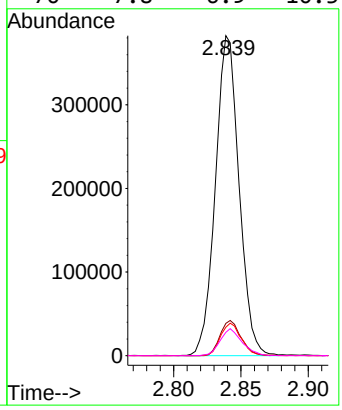


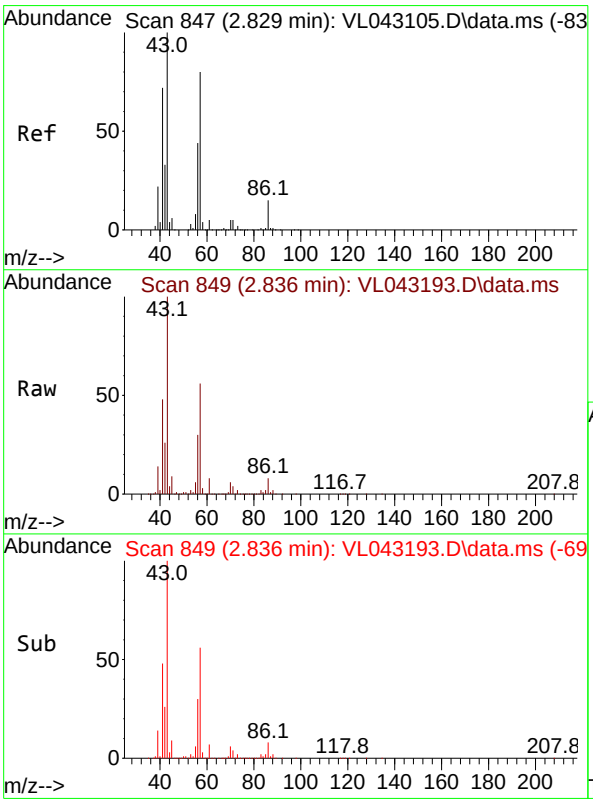
#25
Ethyl Acetate
Concen: 9.924 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 43 Resp: 467192

Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	9.0	7.0	10.6
70	7.8	6.9	10.3

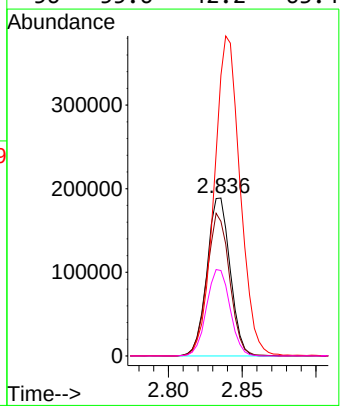


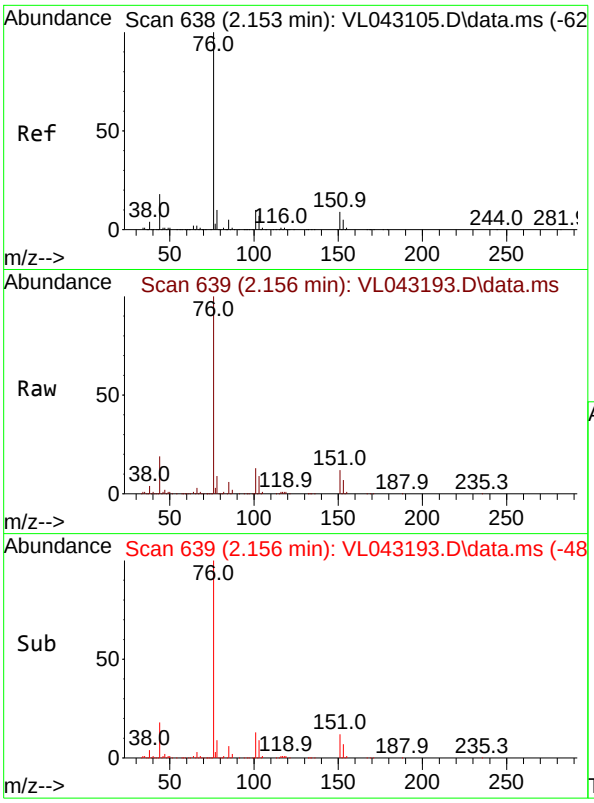


#26
Hexane
Concen: 9.502 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 57 Resp: 206119

Ion	Ratio	Lower	Upper
57	100		
41	89.0	71.4	107.0
43	227.0	178.5	267.7
56	55.6	42.2	63.4



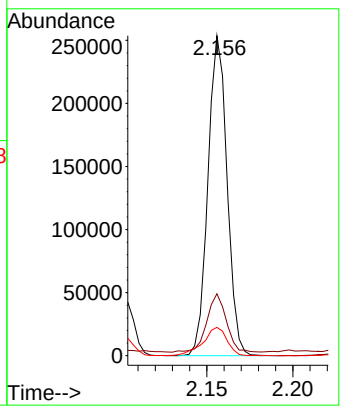


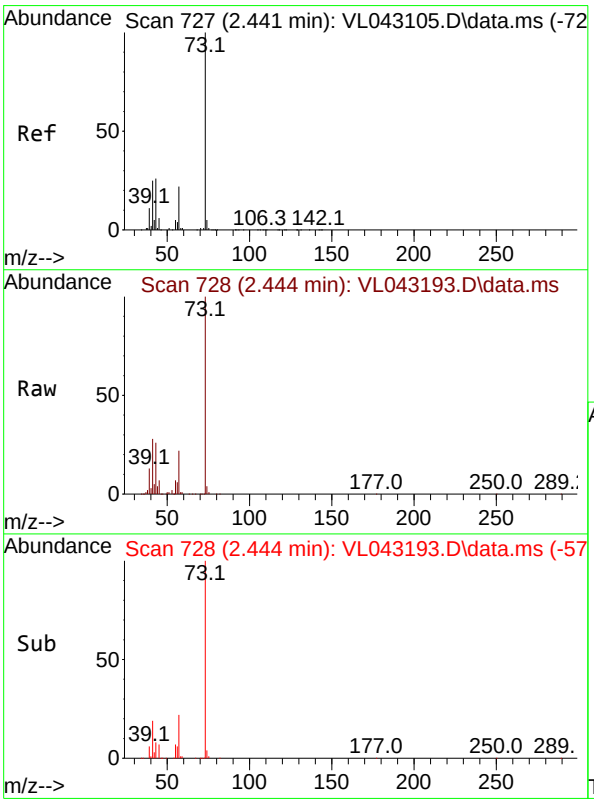
#27
Carbon Disulfide
Concen: 9.849 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 76 Resp: 195762

Ion	Ratio	Lower	Upper
76	100		
44	19.4	16.7	25.1
78	11.1	9.3	13.9

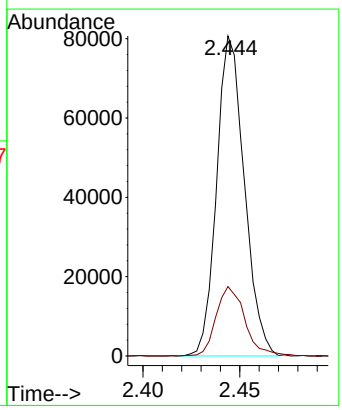


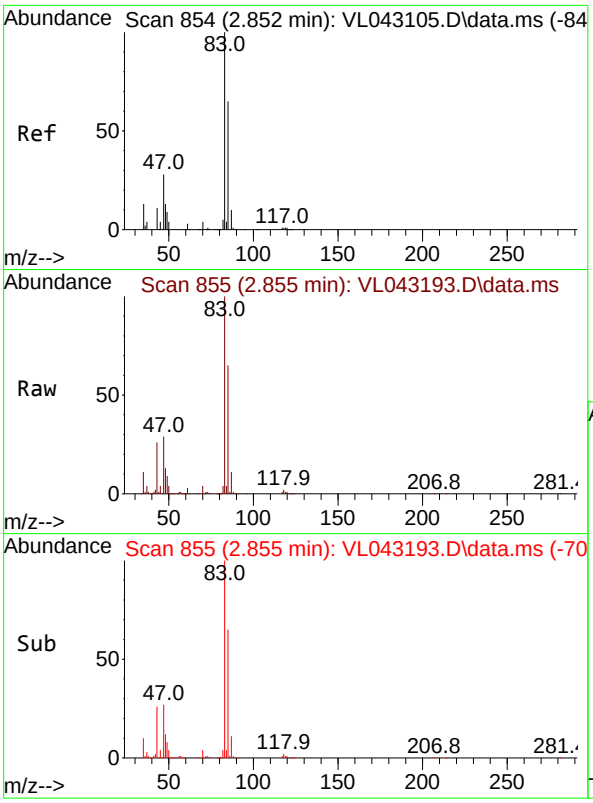


#28
Methyl tert-Butyl Ether
Concen: 8.126 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 73 Resp: 80192

Ion	Ratio	Lower	Upper
73	100		
57	22.6	20.5	30.7



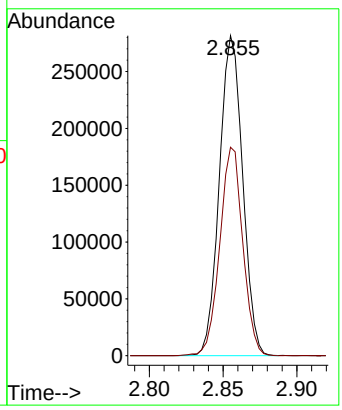


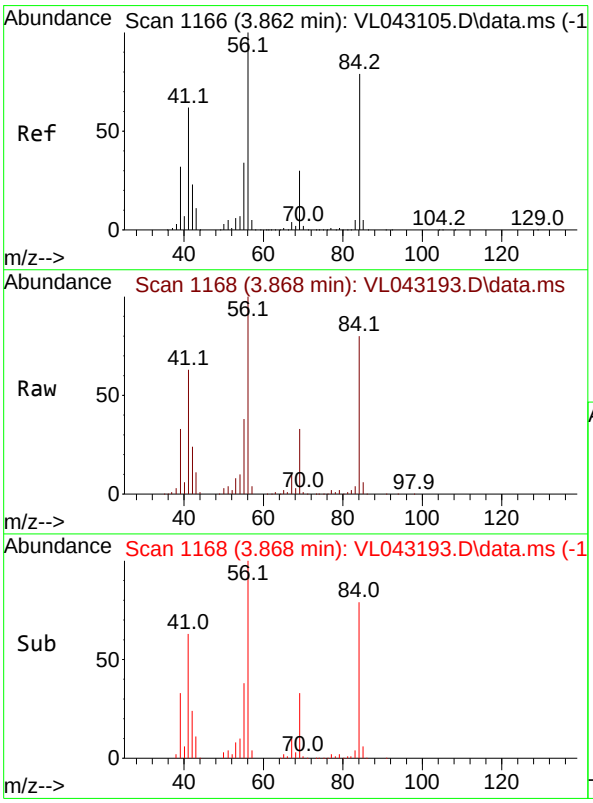
#29
Chloroform
Concen: 9.837 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 83 Resp: 309209

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.8	77.6

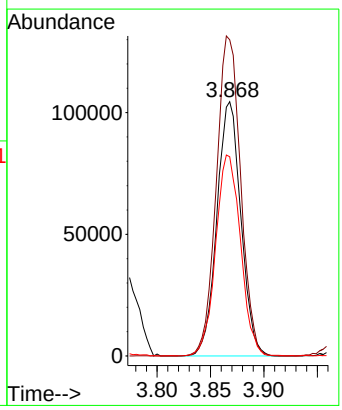


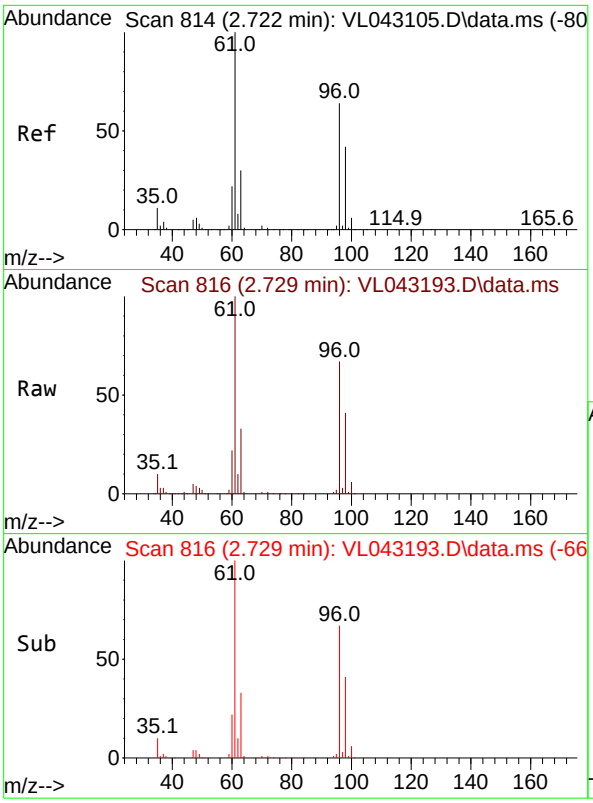


#30
Cyclohexane
Concen: 8.621 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 84 Resp: 163223

Ion	Ratio	Lower	Upper
84	100		
56	127.4	100.9	151.3
41	81.9	63.8	95.6



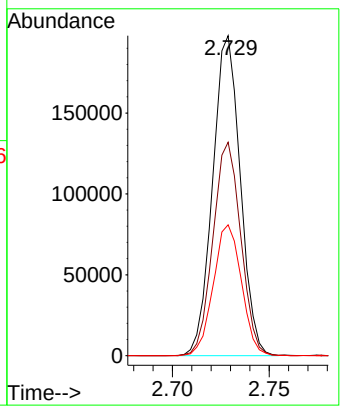


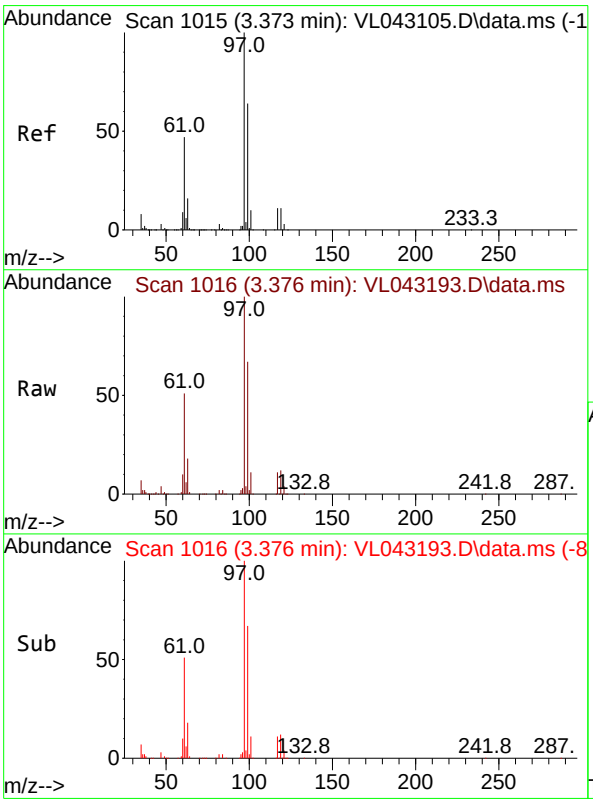
#31
cis-1,2-Dichloroethene
Concen: 9.489 ppbv
RT: 2.729 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 61 Resp: 196567

Ion	Ratio	Lower	Upper
61	100		
96	66.6	51.0	76.6
98	40.9	33.5	50.3

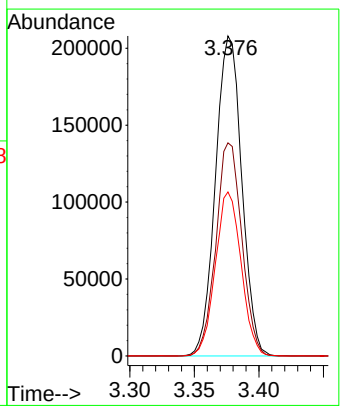


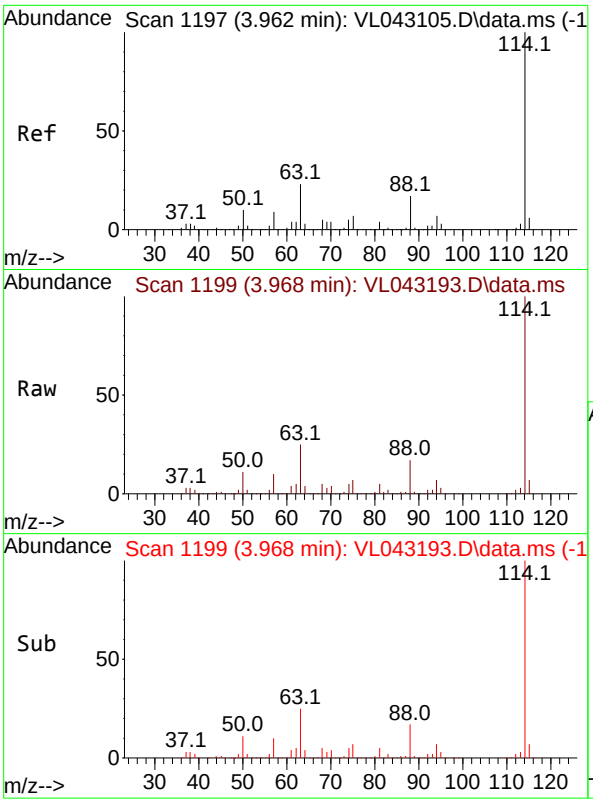


#32
1,1,1-Trichloroethane
Concen: 9.005 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 97 Resp: 294760

Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.3	76.9
61	50.3	38.4	57.6



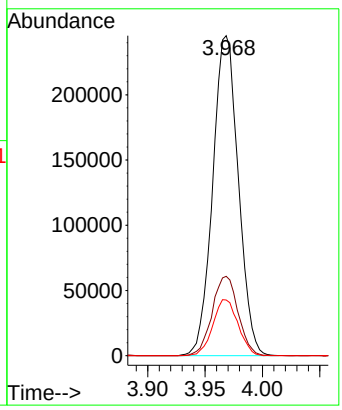


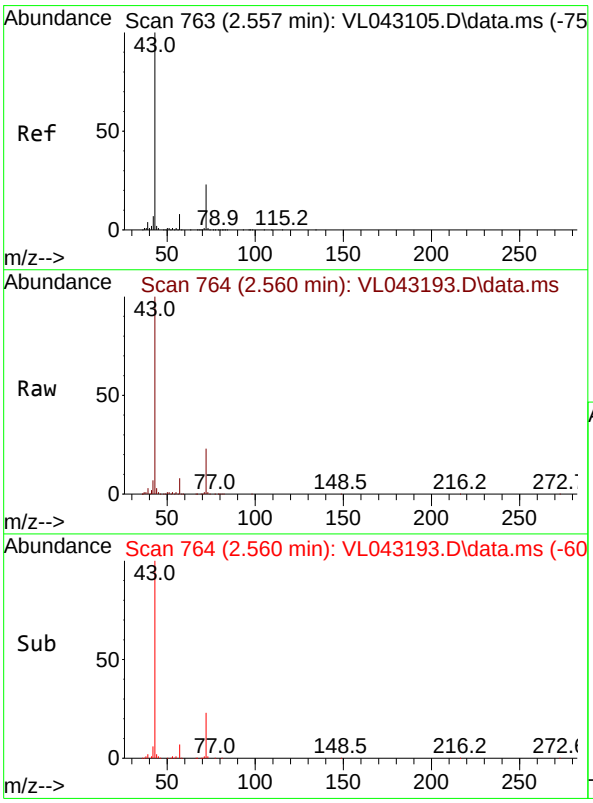
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:114 Resp: 381641

Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.3	28.9
88	17.2	13.9	20.9

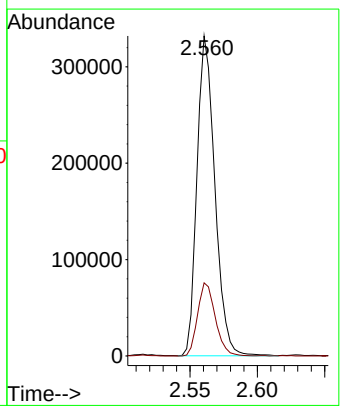


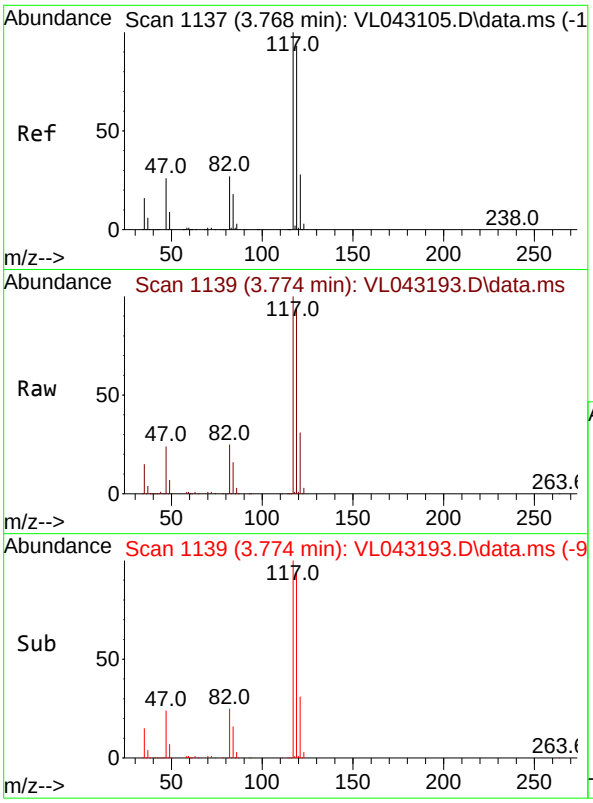


#34
2-Butanone
Concen: 11.953 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 43 Resp: 306642

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.4	27.6



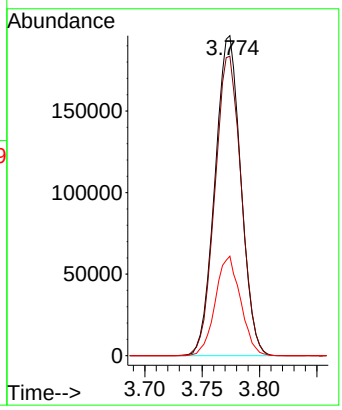


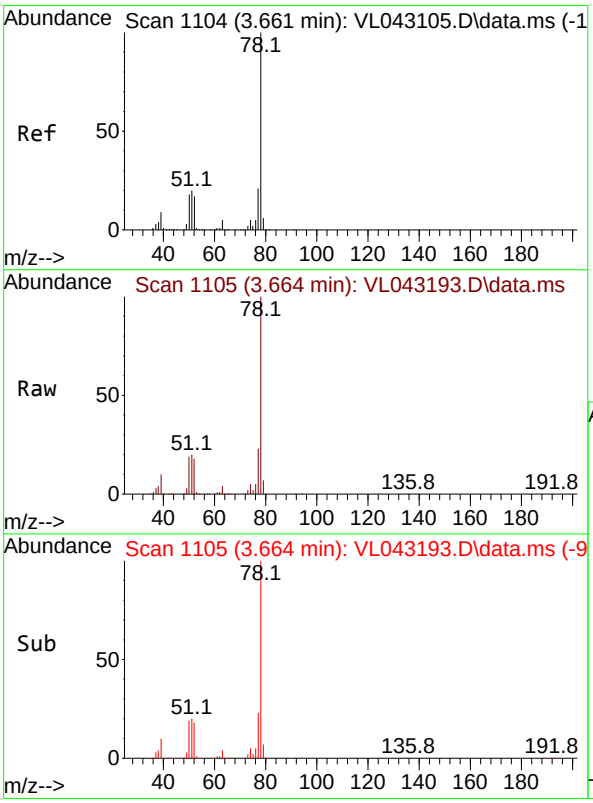
#35
Carbon Tetrachloride
Concen: 11.202 ppbv
RT: 3.774 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:117 Resp: 307371

Ion	Ratio	Lower	Upper
117	100		
119	93.6	74.1	111.1
121	31.1	22.2	33.2

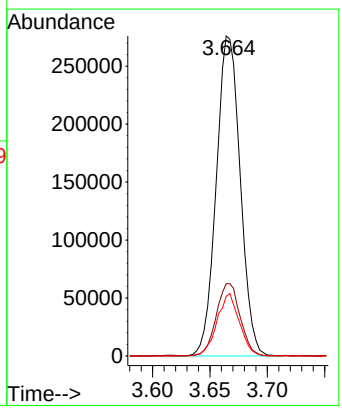


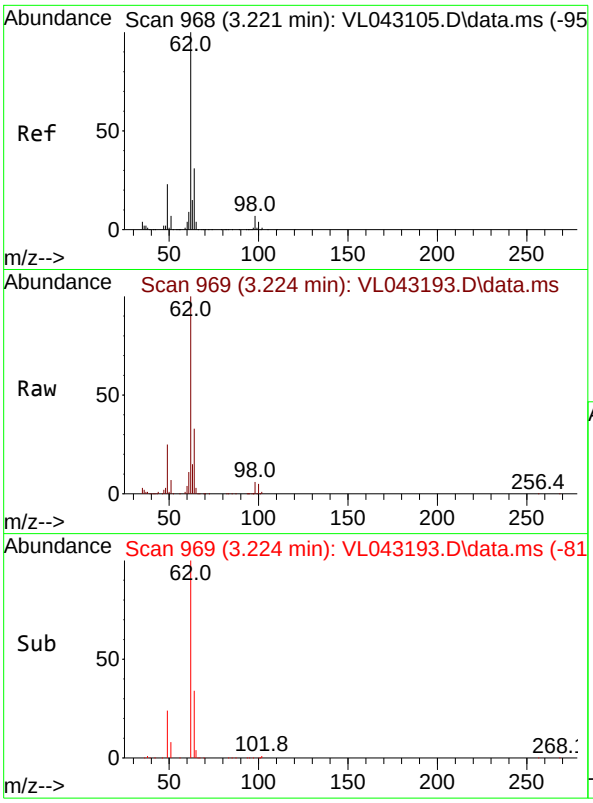


#36
Benzene
Concen: 11.159 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 78 Resp: 401100

Ion	Ratio	Lower	Upper
78	100		
77	22.5	17.0	25.6
50	18.7	14.6	22.0



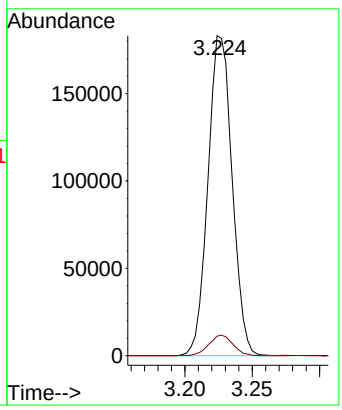


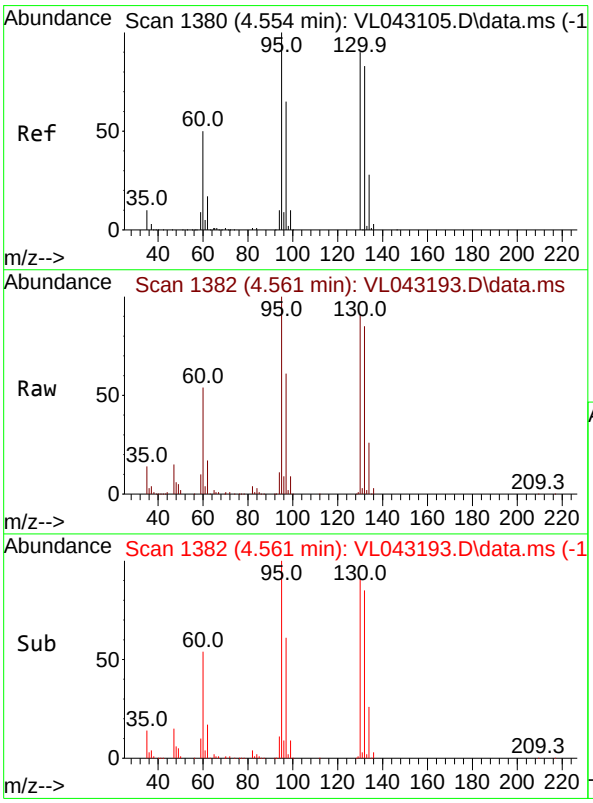
#37
1,2-Dichloroethane
Concen: 11.056 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 62 Resp: 228931

Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.8	8.6

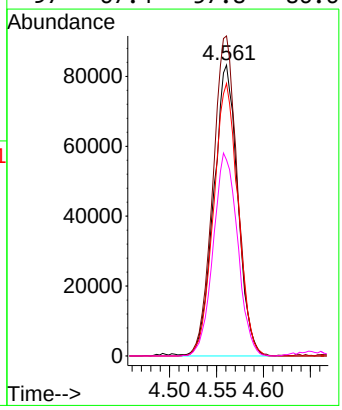


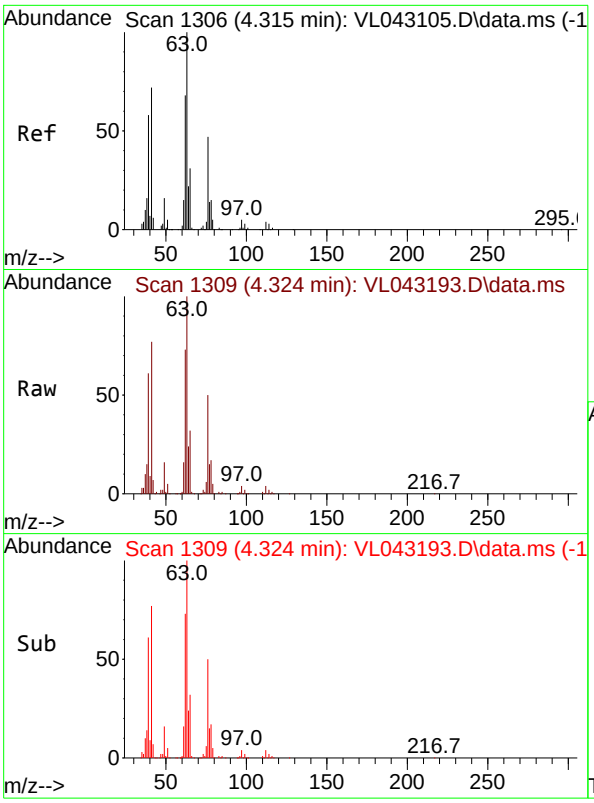


#38
Trichloroethene
Concen: 9.873 ppbv
RT: 4.561 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:130 Resp: 148220

Ion	Ratio	Lower	Upper
130	100		
95	110.0	88.6	133.0
132	93.7	73.4	110.0
97	67.4	57.8	86.6



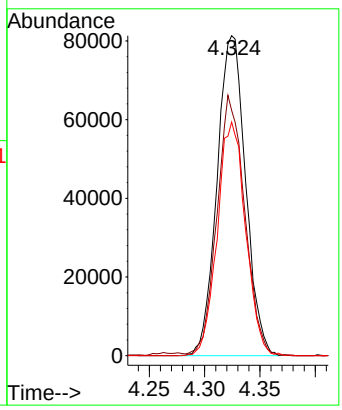


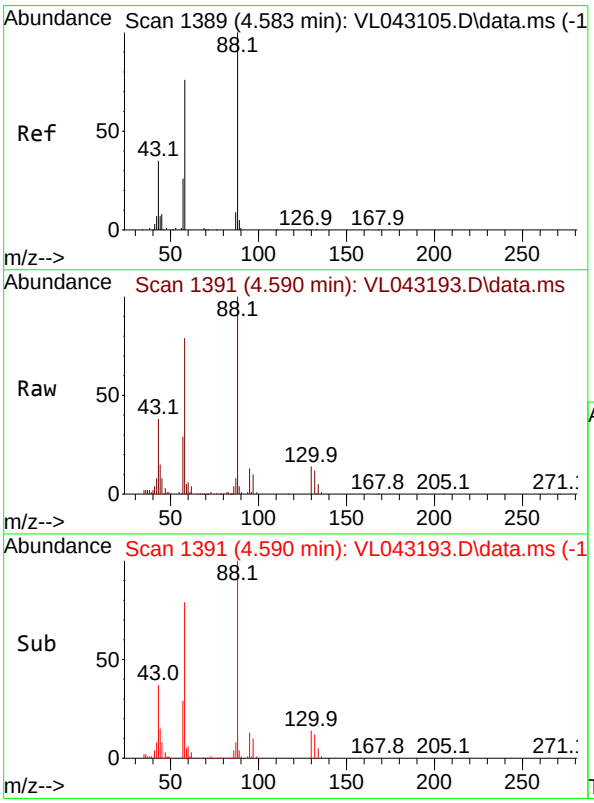
#39
1,2-Dichloropropane
Concen: 11.112 ppbv
RT: 4.324 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 63 Resp: 146018

Ion	Ratio	Lower	Upper
63	100		
41	76.4	58.0	87.0
62	73.0	54.7	82.1

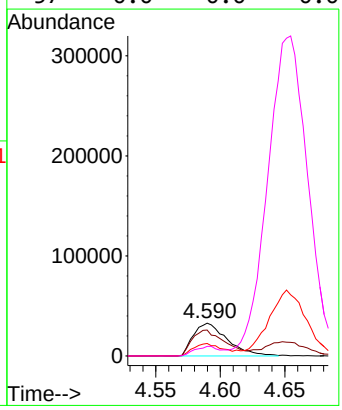


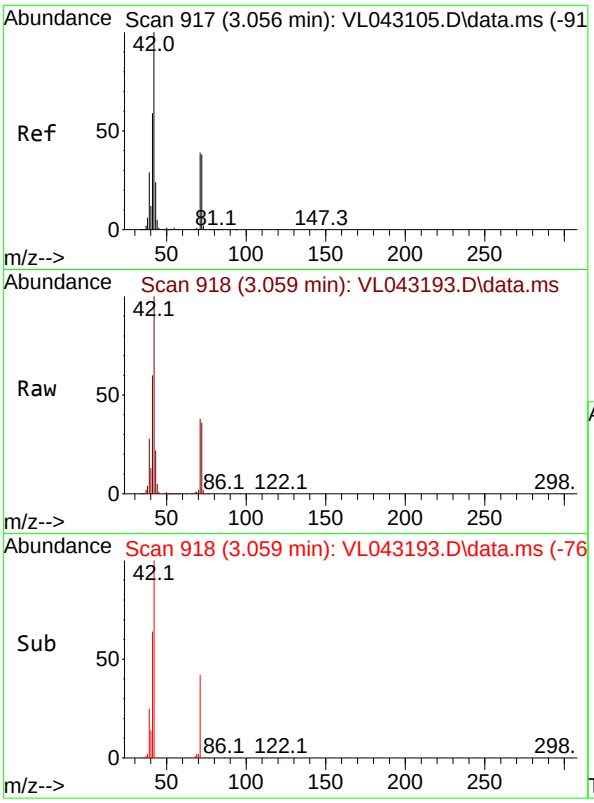


#40
1,4-Dioxane
Concen: 10.227 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 88 Resp: 60137

Ion	Ratio	Lower	Upper
88	100		
58	78.9	61.1	91.7
43	36.1	24.0	36.0#
57	0.0	0.0	0.0



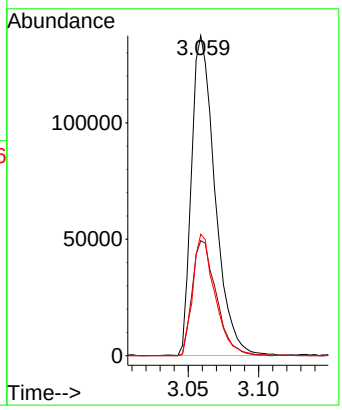


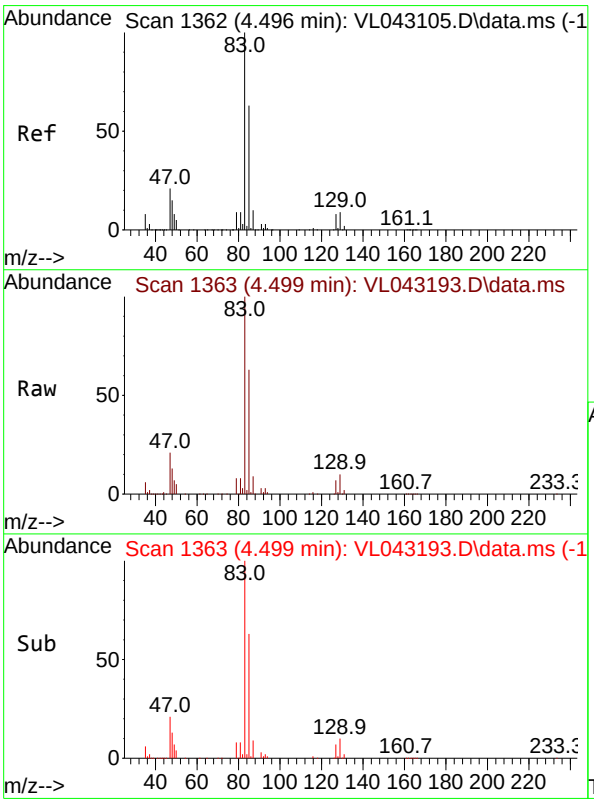
#41
Tetrahydrofuran
Concen: 11.089 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 42 Resp: 159113

Ion	Ratio	Lower	Upper
42	100		
72	36.7	31.3	46.9
71	36.0	30.4	45.6

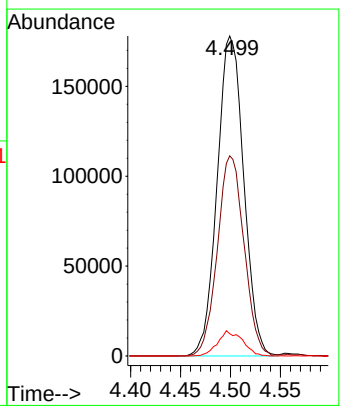


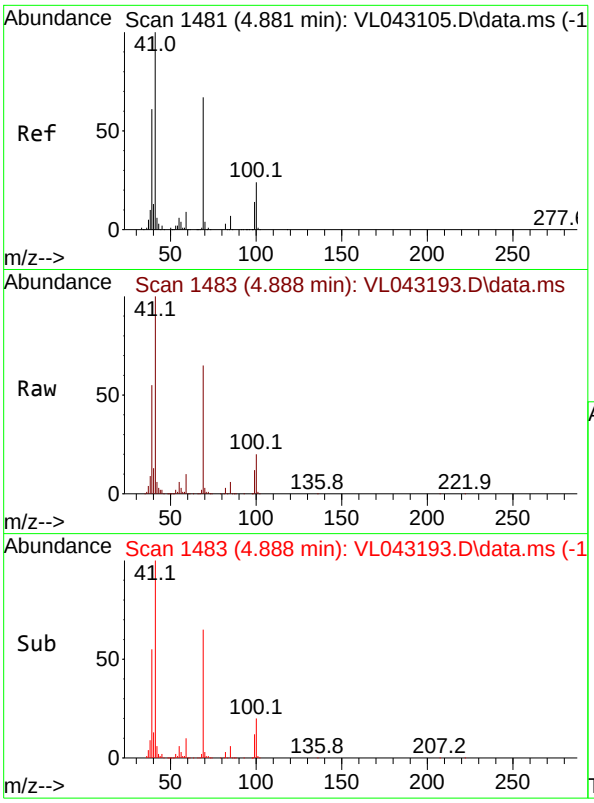


#42
Bromodichloromethane
Concen: 11.502 ppbv
RT: 4.499 min Scan# 1363
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 83 Resp: 329652

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.6	75.8
127	7.0	6.3	9.5



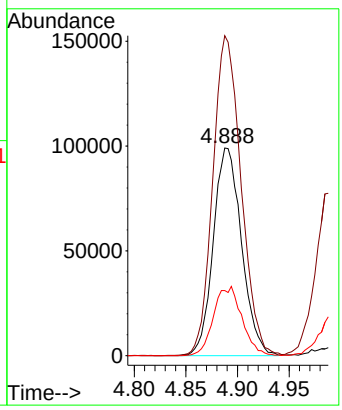


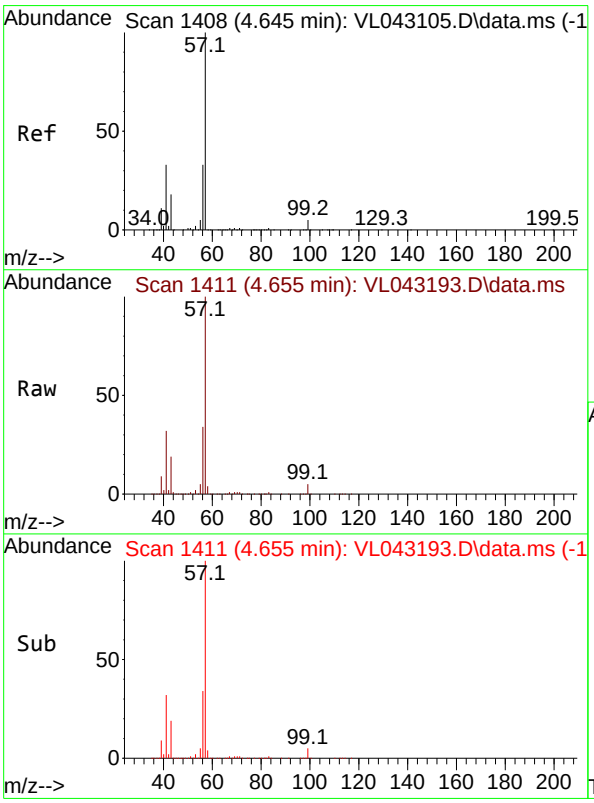
#43
Methyl Methacrylate
Concen: 10.336 ppbv
RT: 4.888 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 69 Resp: 188689

Ion	Ratio	Lower	Upper
69	100		
41	154.0	120.5	180.7
100	33.4	29.0	43.4

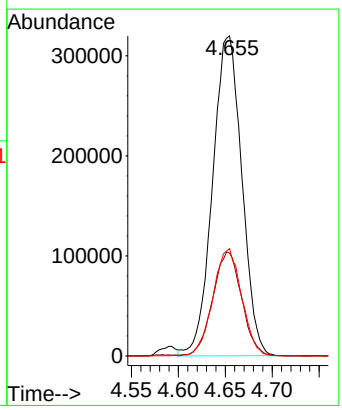


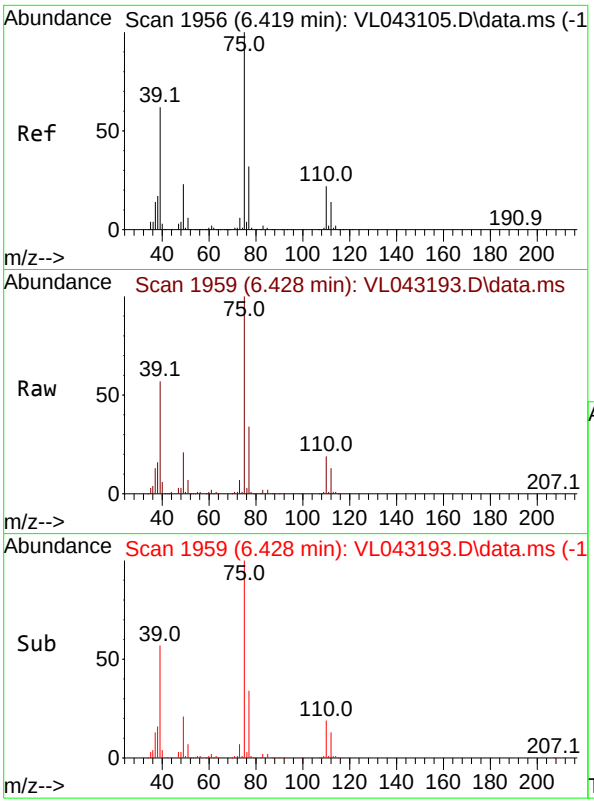


#44
2,2,4-Trimethylpentane
Concen: 11.408 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 57 Resp: 691827

Ion	Ratio	Lower	Upper
57	100		
41	32.6	26.3	39.5
56	33.0	25.9	38.9



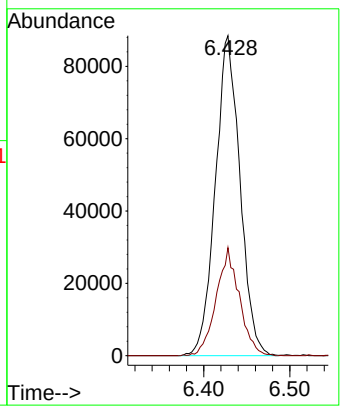


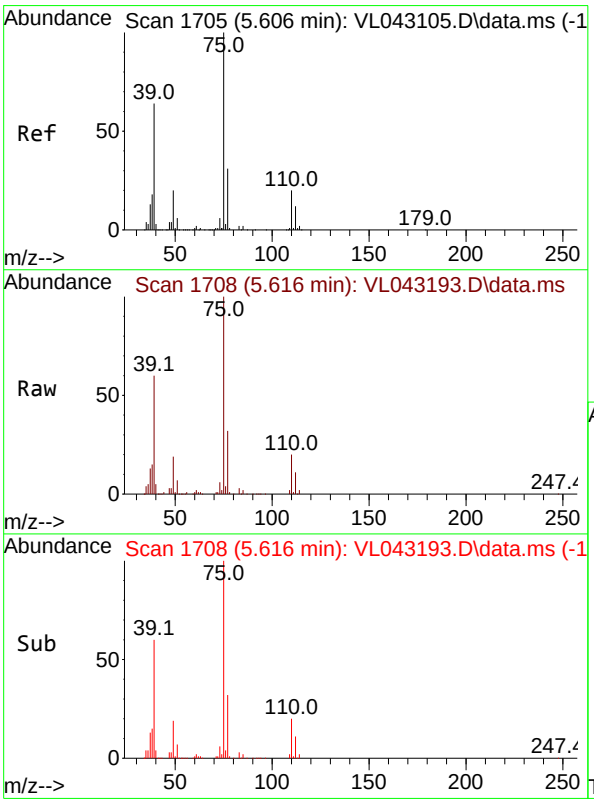
#45
t-1,3-Dichloropropene
Concen: 9.588 ppbv
RT: 6.428 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 75 Resp: 175660

Ion	Ratio	Lower	Upper
75	100		
77	33.8	25.4	38.2

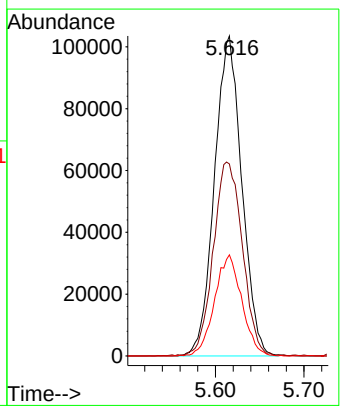


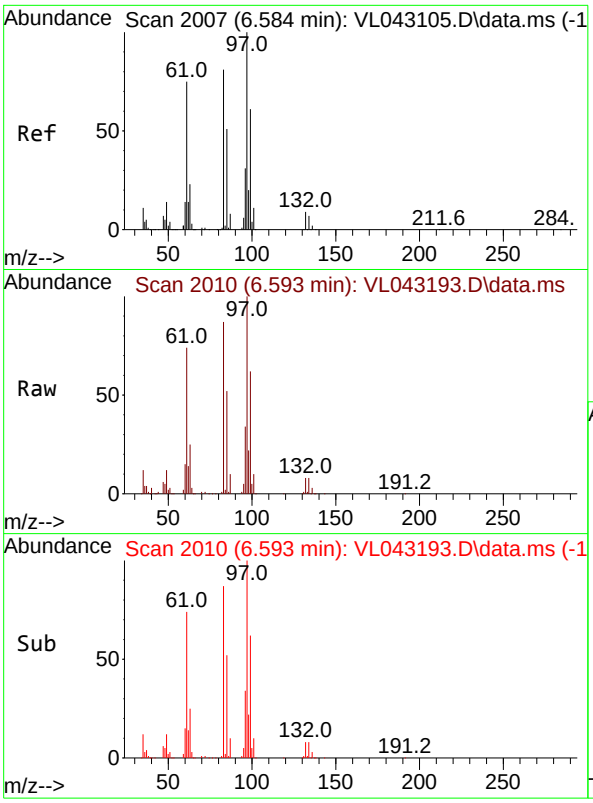


#46
cis-1,3-Dichloropropene
Concen: 10.153 ppbv
RT: 5.616 min Scan# 1708
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 75 Resp: 222196

Ion	Ratio	Lower	Upper
75	100		
39	59.6	51.0	76.6
77	31.5	25.0	37.4



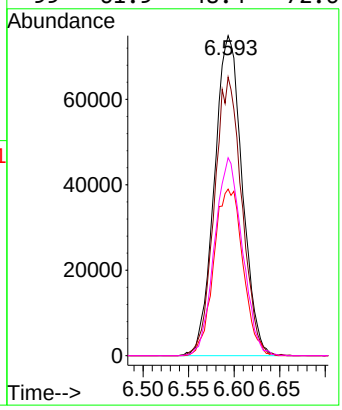


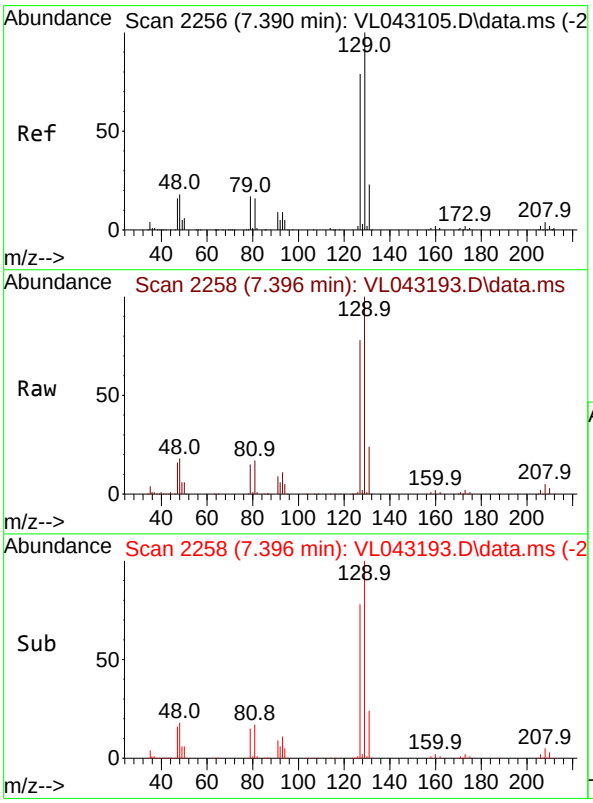
#47
1,1,2-Trichloroethane
Concen: 11.230 ppbv
RT: 6.593 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 97 Resp: 159359

Ion	Ratio	Lower	Upper
97	100		
83	87.0	64.6	96.8
85	52.1	40.6	60.8
99	61.9	48.4	72.6

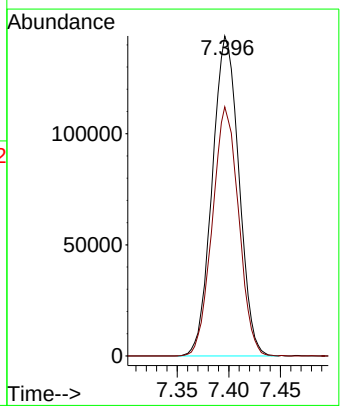


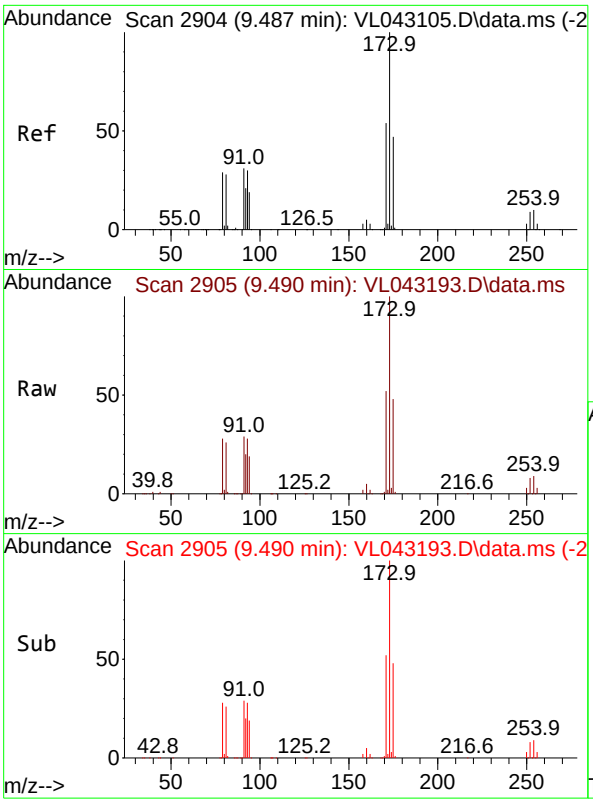


#48
Dibromochloromethane
Concen: 10.903 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:129 Resp: 258701

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.3	117.9



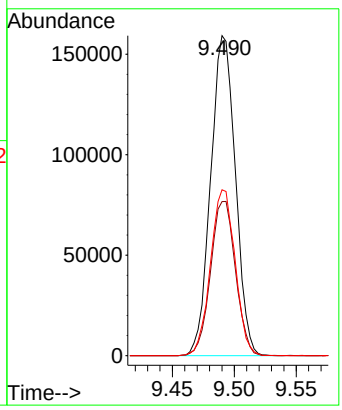


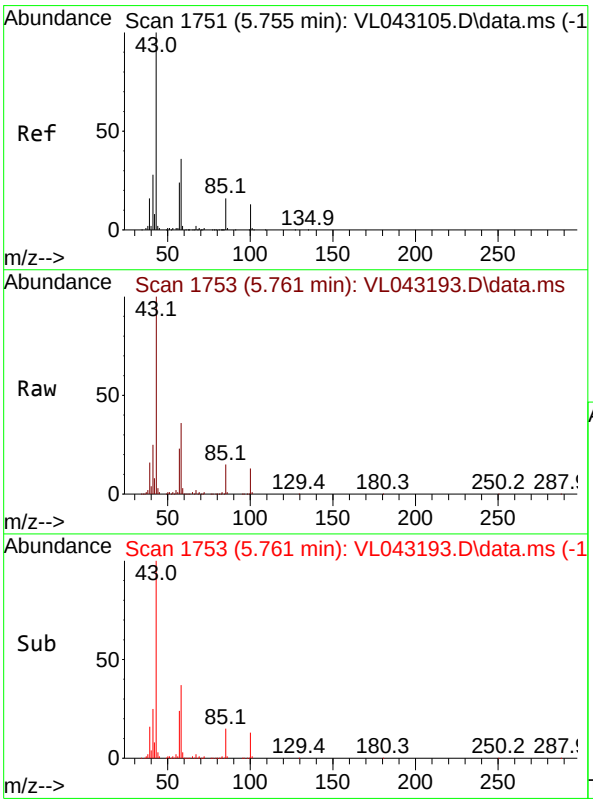
#49
Bromoform
Concen: 11.491 ppbv
RT: 9.490 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:173 Resp: 221619

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.8	58.2
171	51.6	41.7	62.5

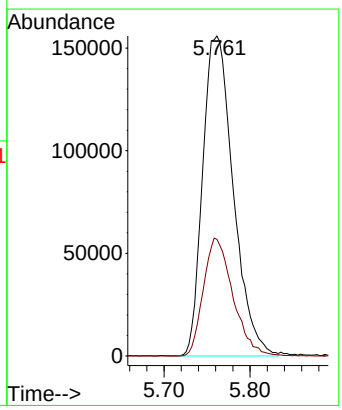


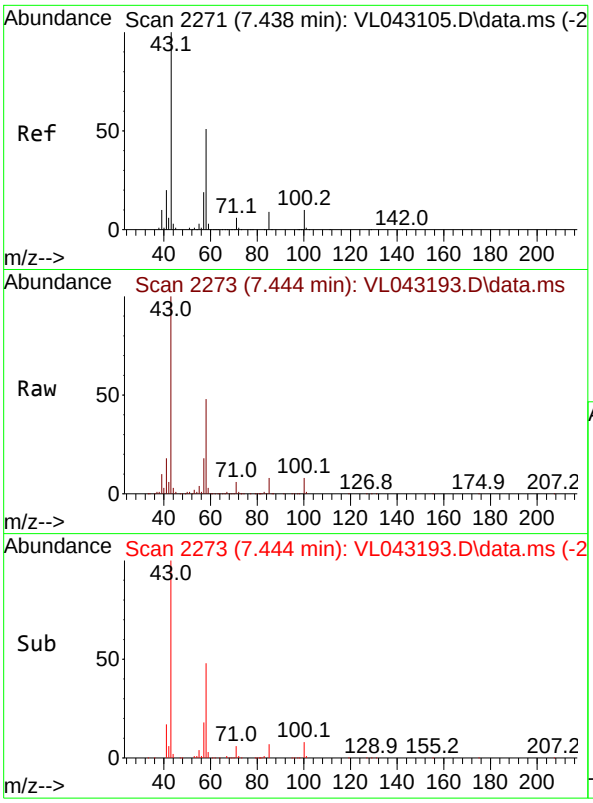


#50
4-Methyl-2-Pentanone
Concen: 10.877 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 43 Resp: 385105

Ion	Ratio	Lower	Upper
43	100		
58	35.6	29.1	43.7



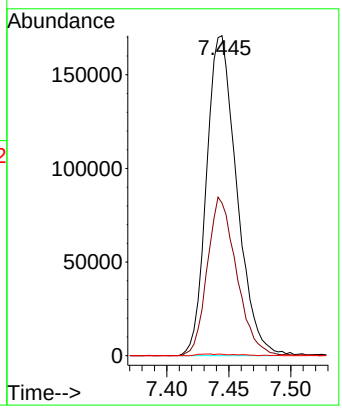


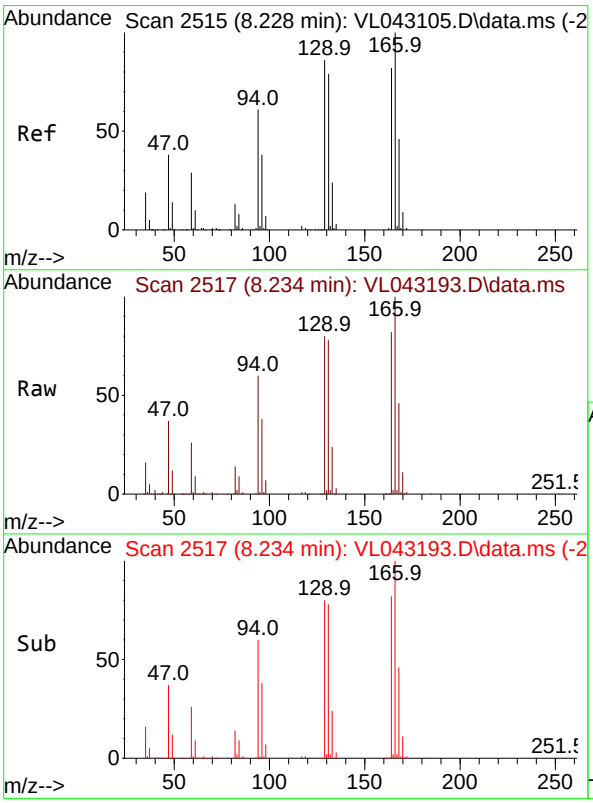
#51
2-Hexanone
Concen: 10.918 ppbv
RT: 7.444 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 43 Resp: 289935

Ion	Ratio	Lower	Upper
43	100		
58	48.2	40.4	60.6
98	0.7	0.1	0.1#

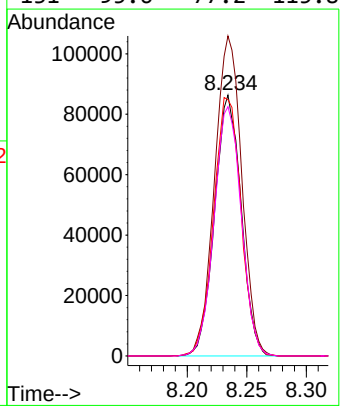


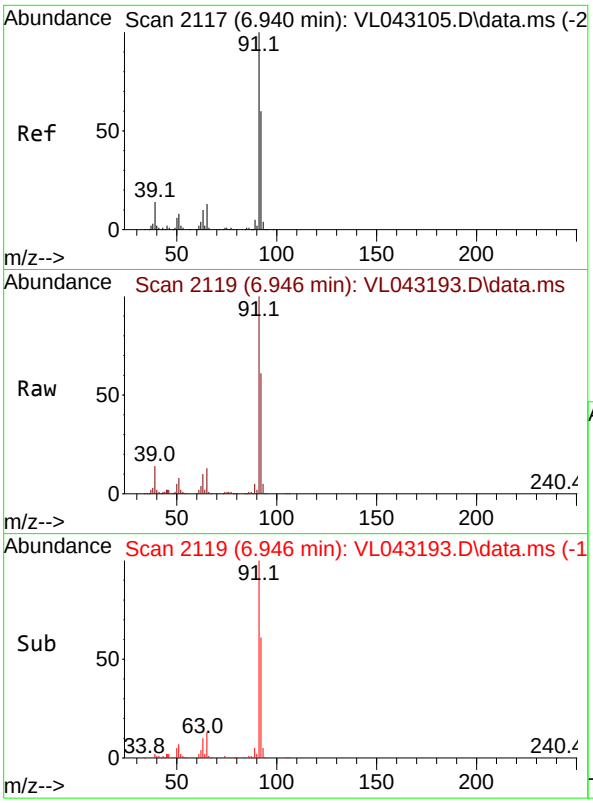


#52
Tetrachloroethene
Concen: 10.279 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:164 Resp: 133238

Ion	Ratio	Lower	Upper
164	100		
166	122.7	97.6	146.4
129	98.3	84.5	126.7
131	95.6	77.2	115.8



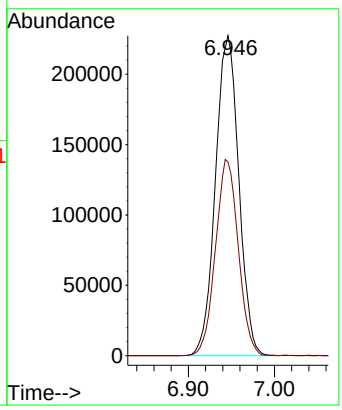


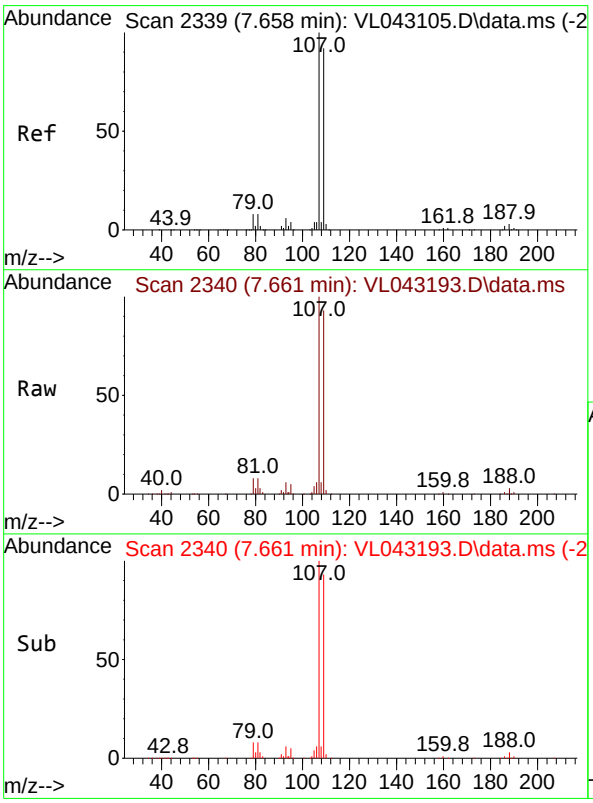
#53
Toluene
Concen: 10.051 ppbv
RT: 6.946 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 91 Resp: 428768

Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.8	73.2

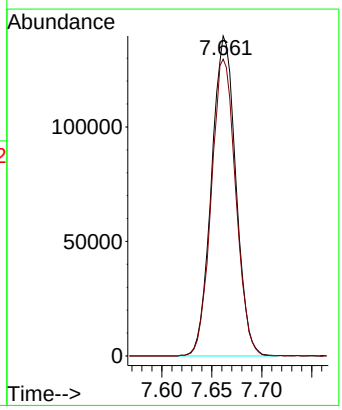


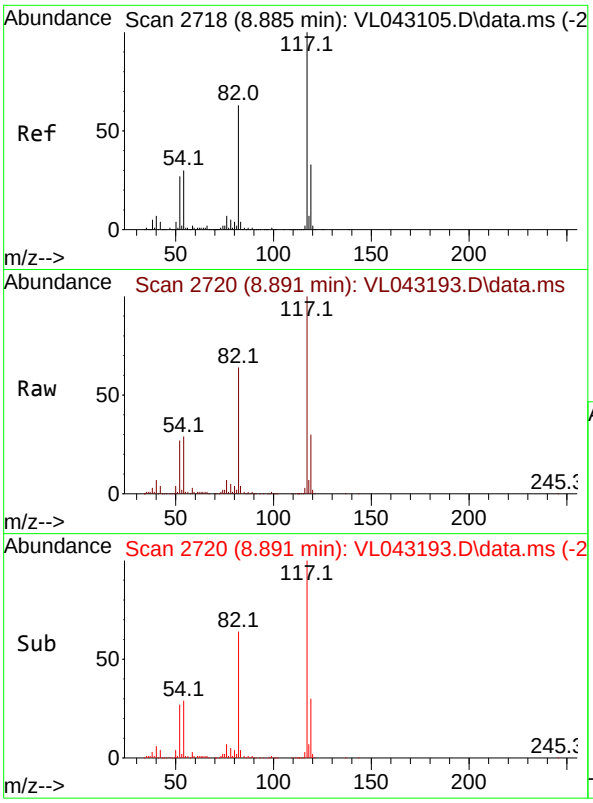


#54
1,2-Dibromoethane
Concen: 10.633 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:107 Resp: 236351

Ion	Ratio	Lower	Upper
107	100		
109	92.8	73.4	110.2



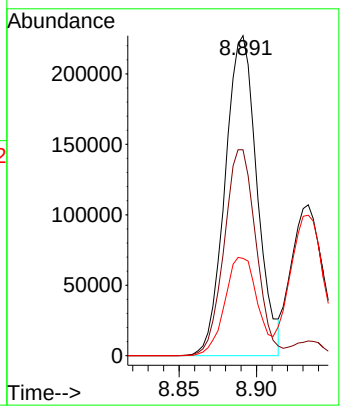


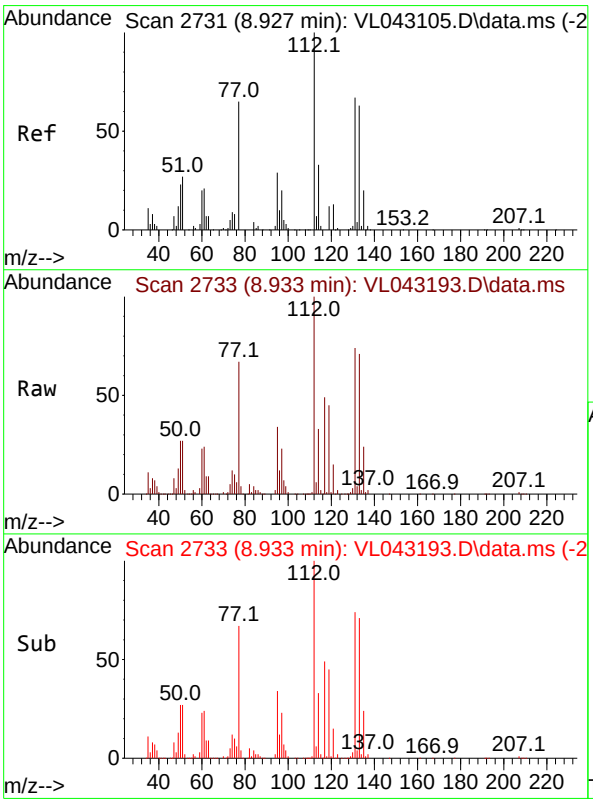
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:117 Resp: 326347

Ion	Ratio	Lower	Upper
117	100		
82	68.6	53.8	80.8
119	32.9	25.4	38.0

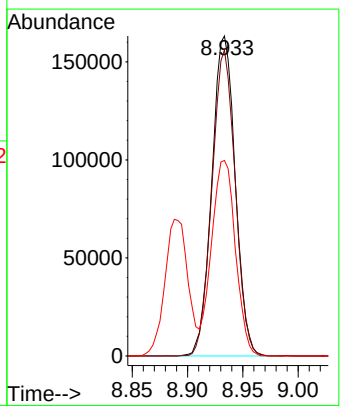


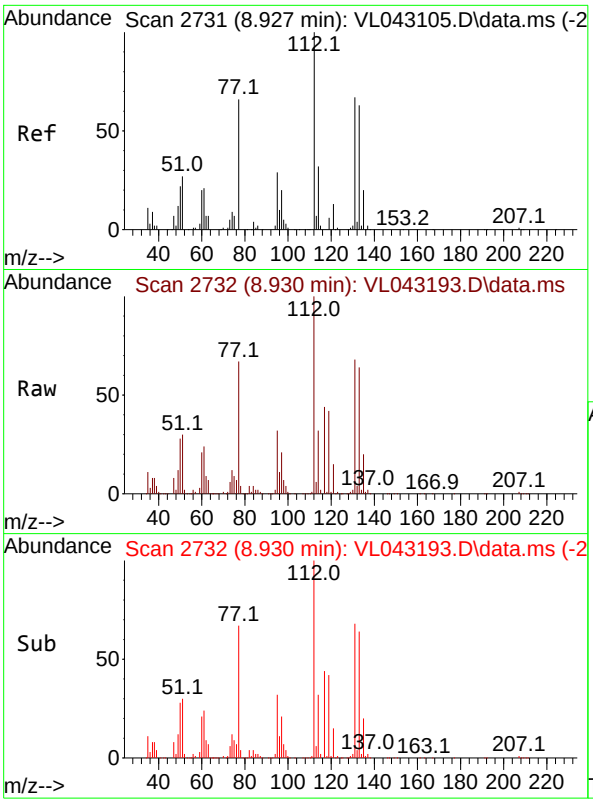


#56
1,1,1,2-Tetrachloroethane
Concen: 11.670 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:131 Resp: 240077

Ion	Ratio	Lower	Upper
131	100		
133	94.8	75.7	113.5
119	63.4	50.6	76.0



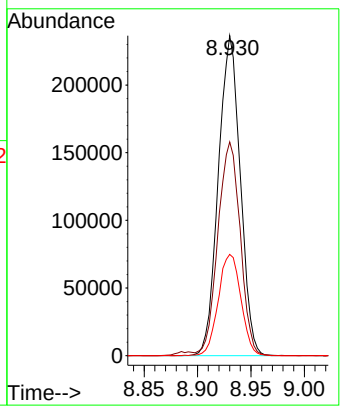


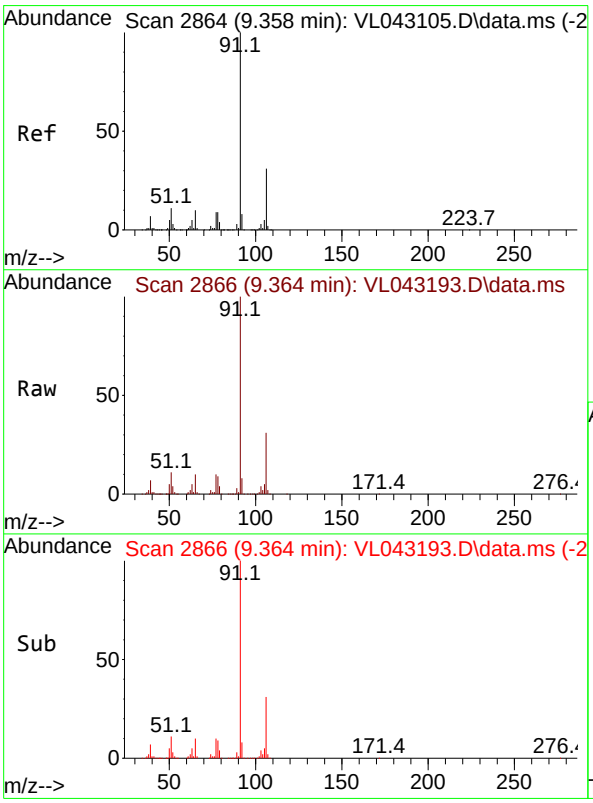
#57
Chlorobenzene
Concen: 11.058 ppbv
RT: 8.930 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:112 Resp: 337602

Ion	Ratio	Lower	Upper
112	100		
77	66.7	53.3	79.9
114	31.7	29.3	35.8

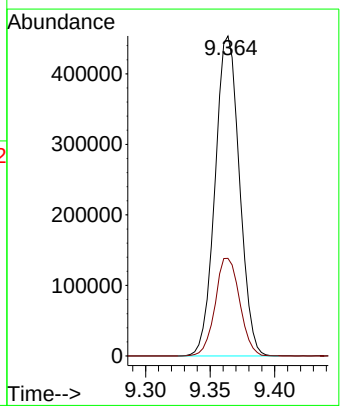


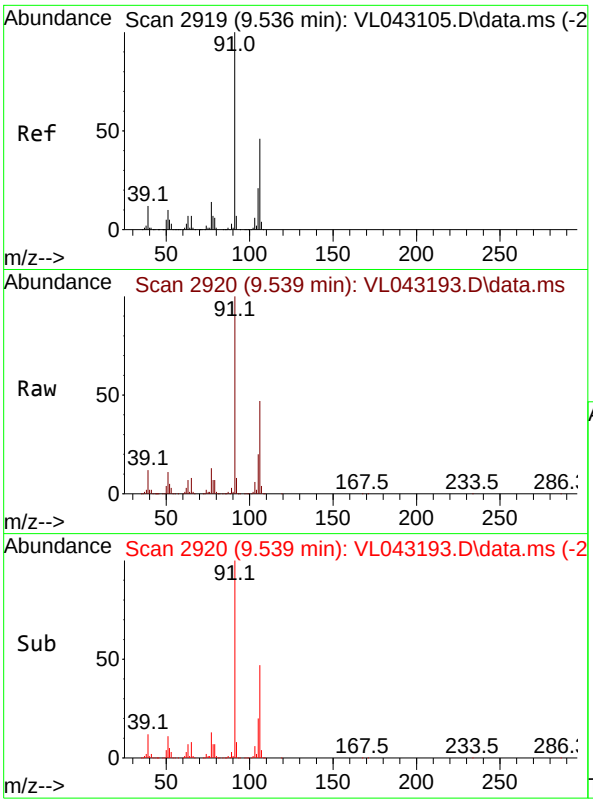


#58
Ethyl Benzene
Concen: 10.613 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 91 Resp: 594417

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.8	37.2



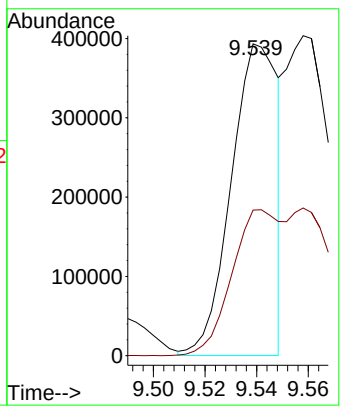


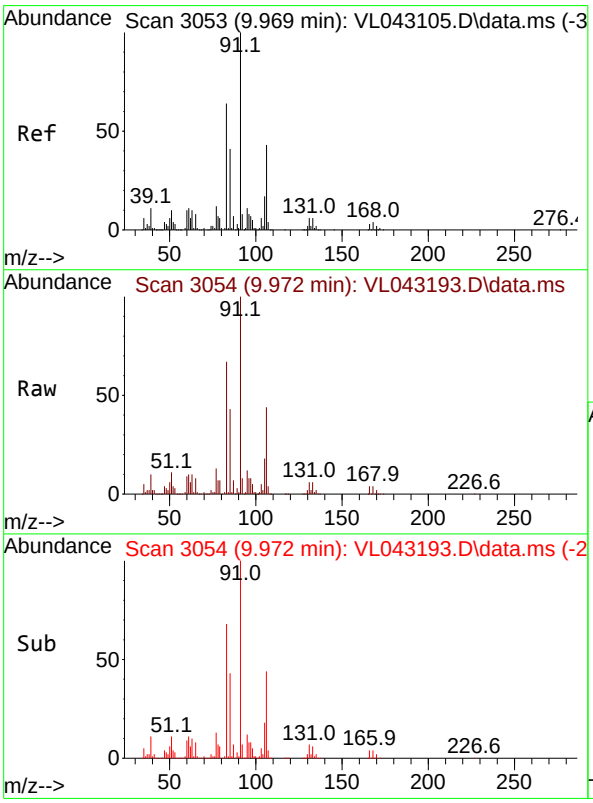
#59
m/p-Xylene
Concen: 10.976 ppbv
RT: 9.539 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 91 Resp: 490348

Ion	Ratio	Lower	Upper
91	100		
106	0.0	38.0	57.0#

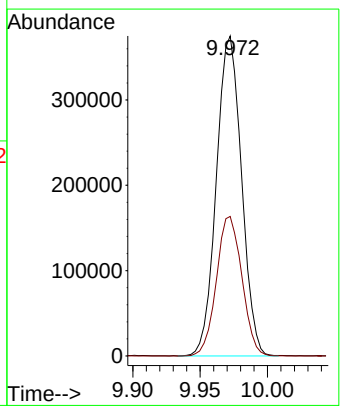


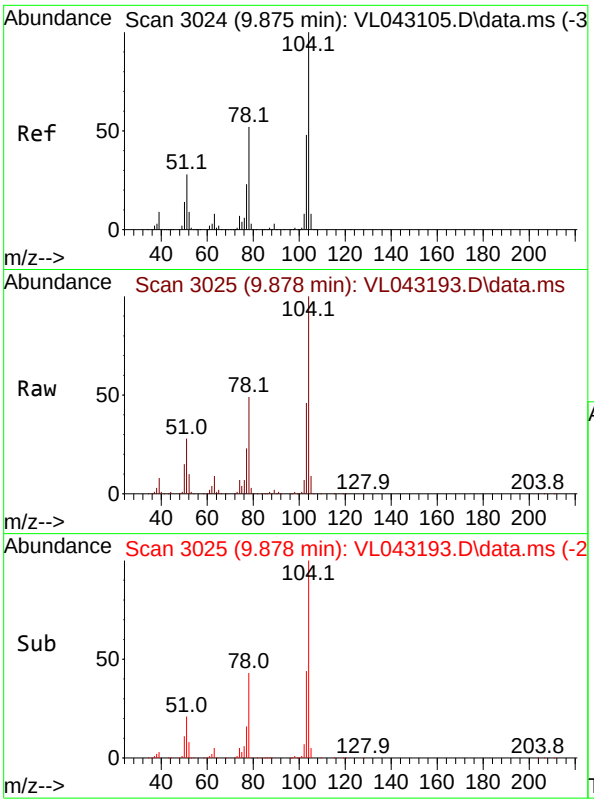


#60
o-Xylene
Concen: 11.039 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 91 Resp: 487054

Ion	Ratio	Lower	Upper
91	100		
106	44.1	21.9	65.8



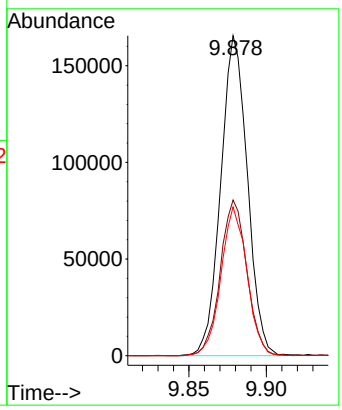


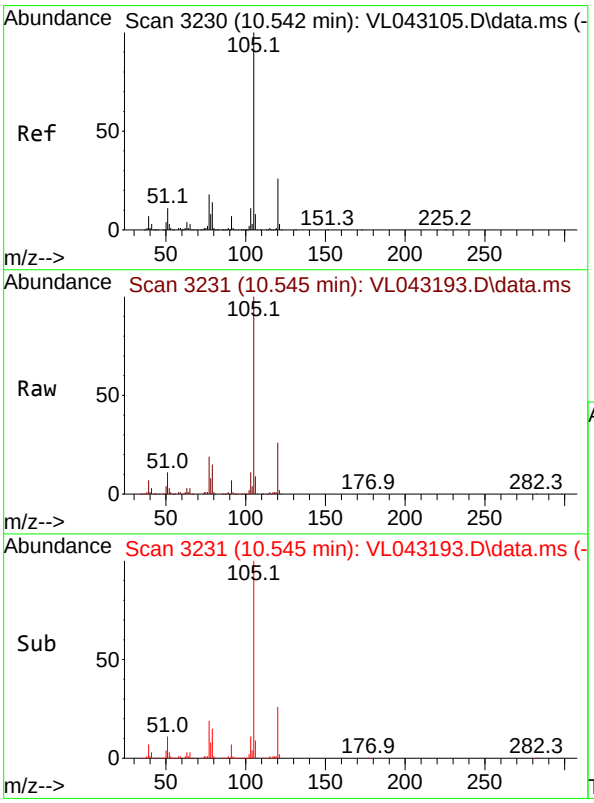
#61
Styrene
Concen: 9.947 ppbv
RT: 9.878 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:104 Resp: 198117

Ion	Ratio	Lower	Upper
104	100		
78	48.8	40.2	60.2
103	45.5	36.9	55.3

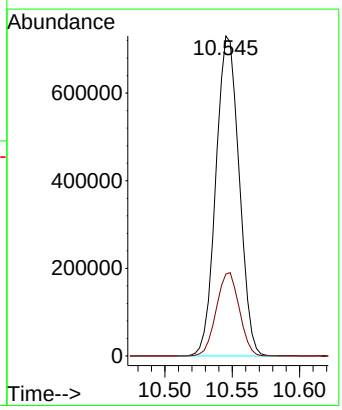


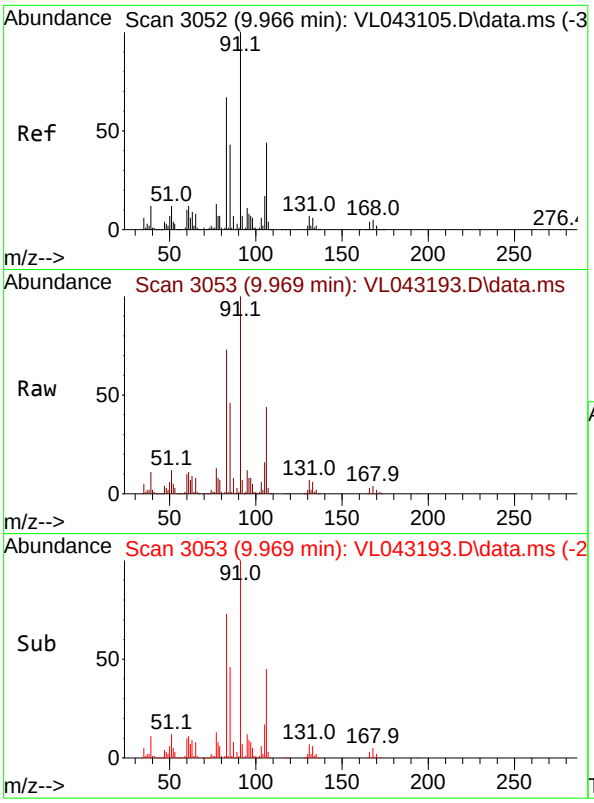


#62
Isopropylbenzene
Concen: 10.988 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:105 Resp: 876032

Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.2	30.4



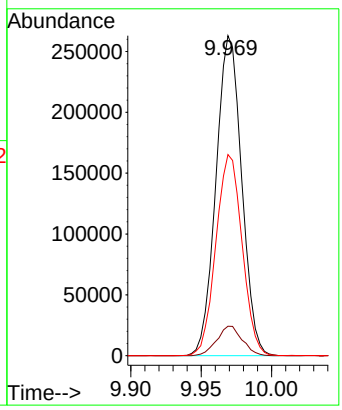


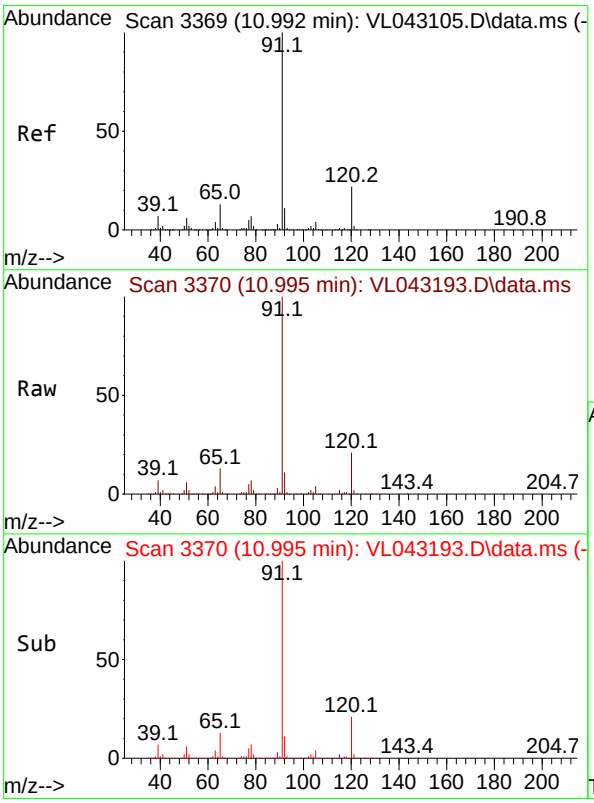
#63
1,1,2,2-Tetrachloroethane
Concen: 11.343 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 83 Resp: 335111

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.8	14.3
85	64.1	32.0	96.0

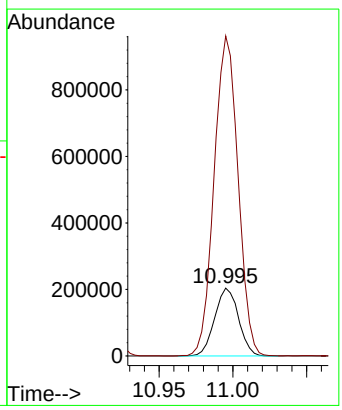


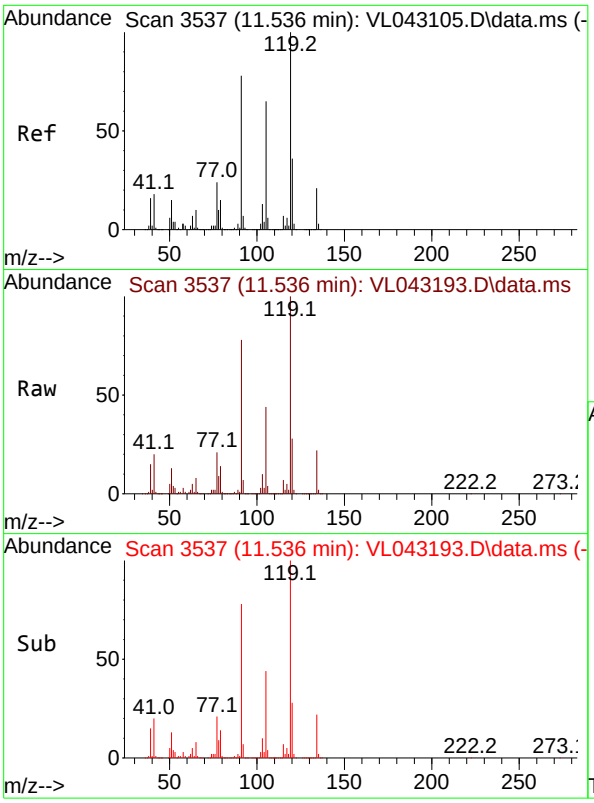


#64
n-propylbenzene
Concen: 10.845 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:120 Resp: 228911

Ion	Ratio	Lower	Upper
120	100		
91	474.6	361.6	542.4



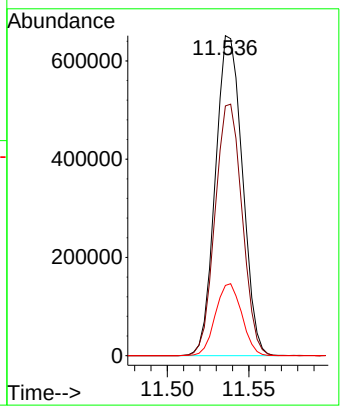


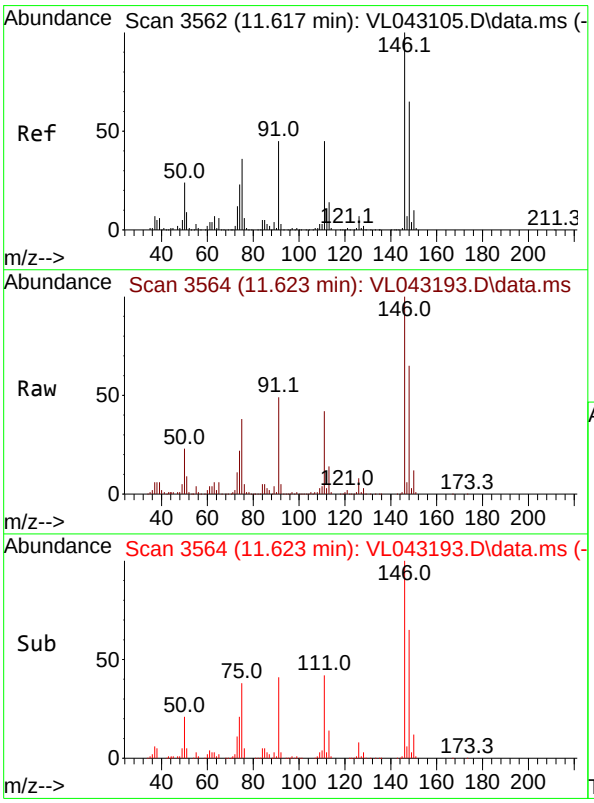
#65
tert-Butylbenzene
Concen: 10.665 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:119 Resp: 750836

Ion	Ratio	Lower	Upper
119	100		
91	78.8	63.4	95.0
134	21.9	17.3	25.9

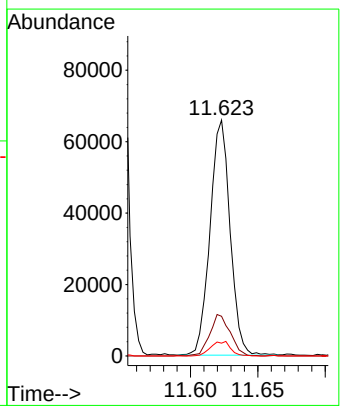


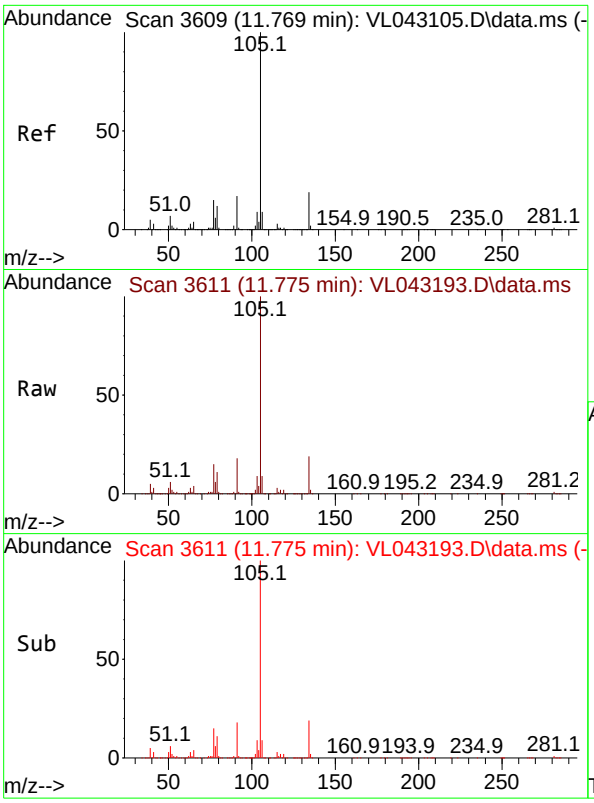


#66
Benzyl Chloride
Concen: 8.701 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 91 Resp: 68177

Ion	Ratio	Lower	Upper
91	100		
126	18.1	14.6	22.0
128	6.2	4.6	6.8



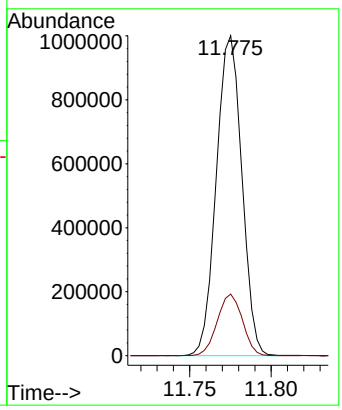


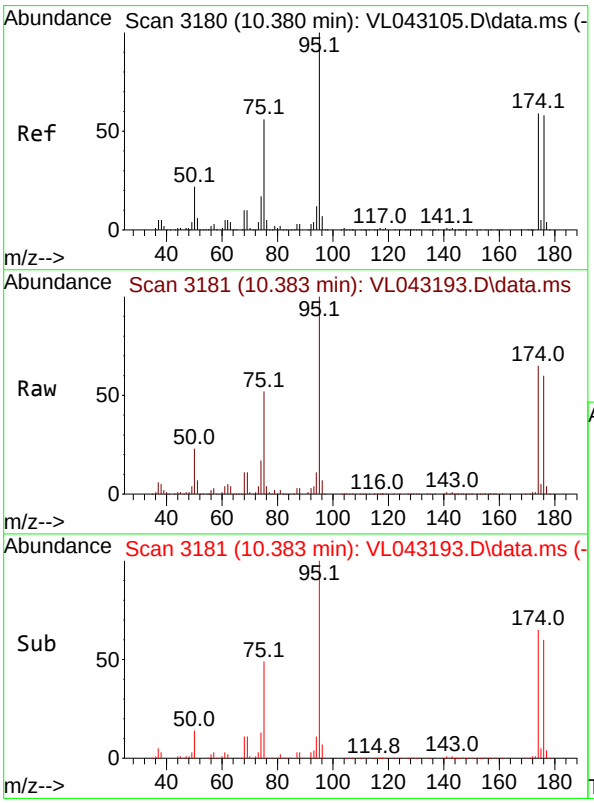
#67
sec-Butylbenzene
Concen: 10.891 ppbv
RT: 11.775 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:105 Resp: 1088172

Ion	Ratio	Lower	Upper
105	100		
134	19.0	15.5	23.3

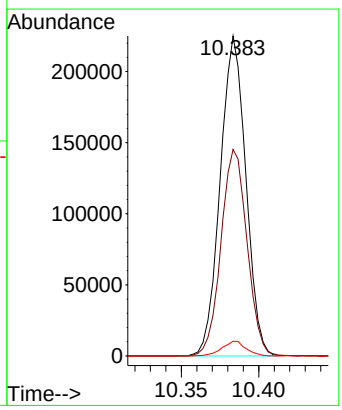


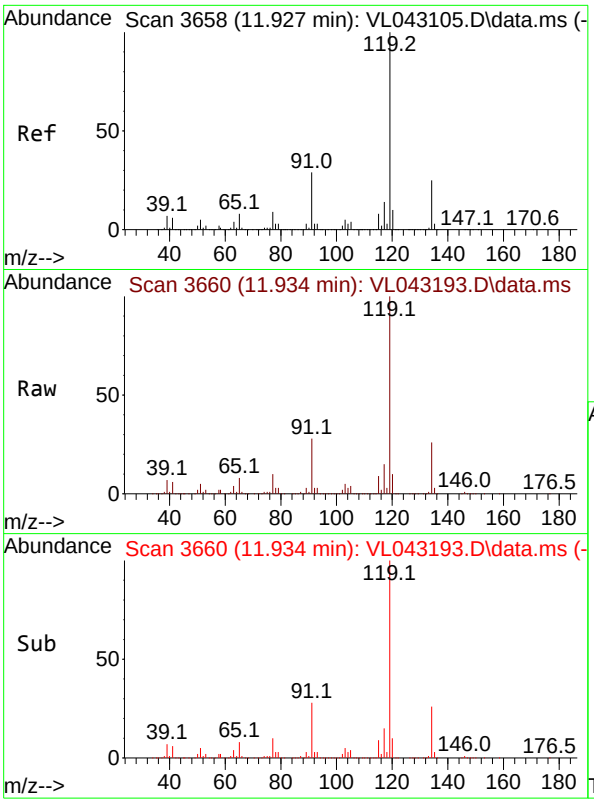


#68
1-Bromo-4-Fluorobenzene
Concen: 10.196 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 95 Resp: 258637

Ion	Ratio	Lower	Upper
95	100		
174	65.6	48.3	72.5
175	4.3	3.8	5.8



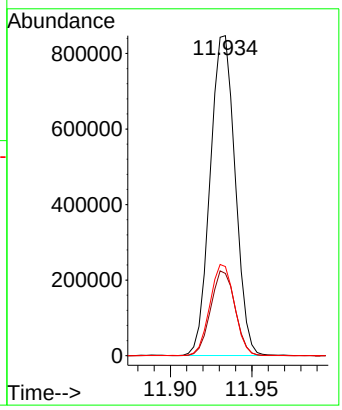


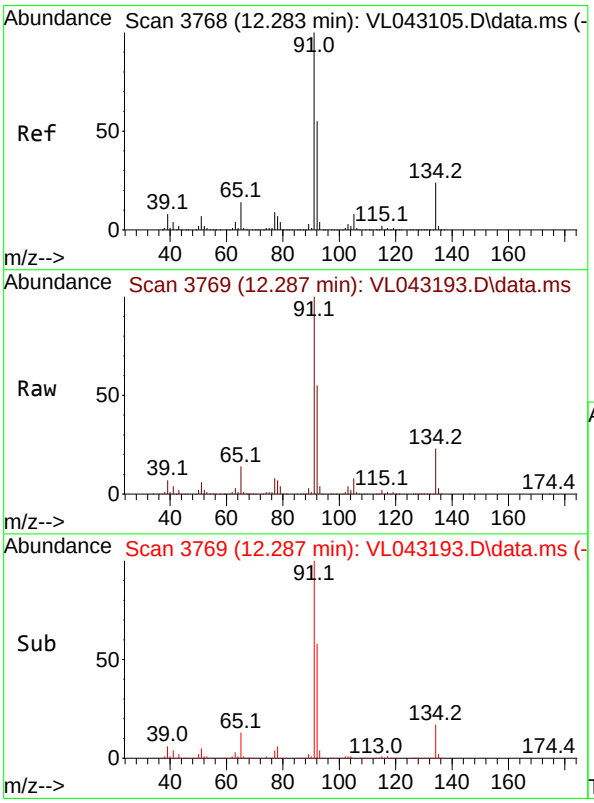
#69
p-Isopropyltoluene
Concen: 10.618 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:119 Resp: 901546

Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.3	30.5
91	28.1	22.6	33.8

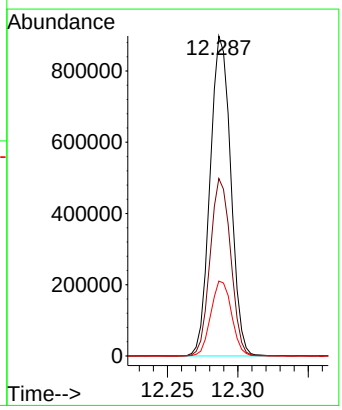


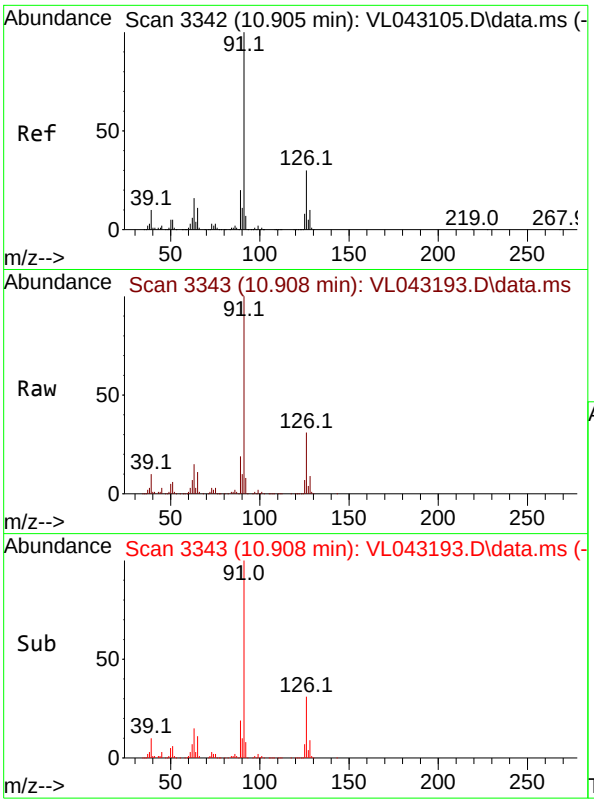


#70
n-Butylbenzene
Concen: 10.962 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion: 91 Resp: 917214

Ion	Ratio	Lower	Upper
91	100		
92	55.2	44.5	66.7
134	23.4	19.3	28.9



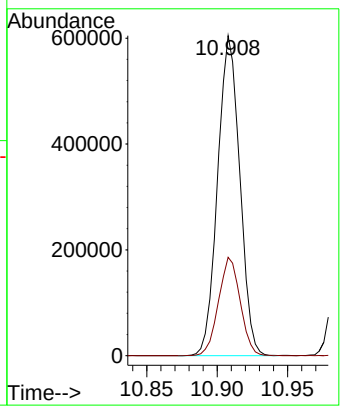


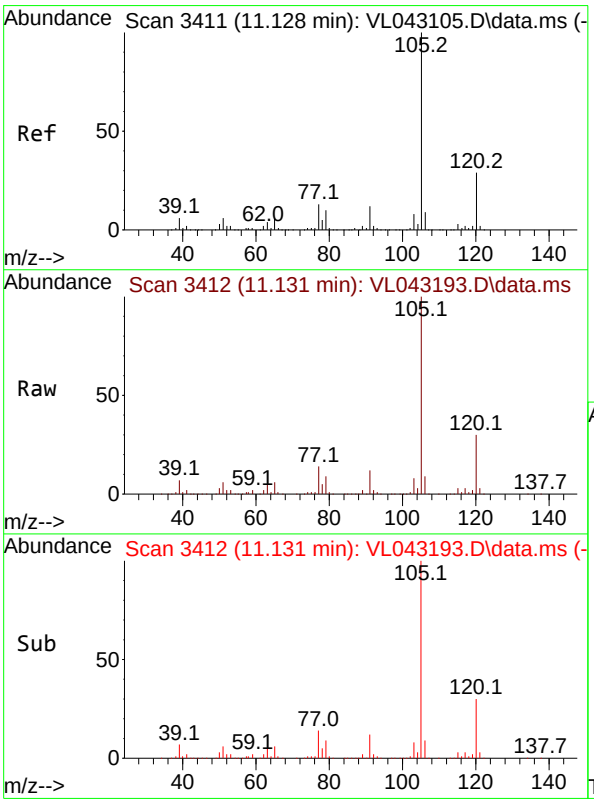
#71
2-Chlorotoluene
Concen: 10.880 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion: 91 Resp: 661575

Ion	Ratio	Lower	Upper
91	100		
126	30.1	12.0	48.0

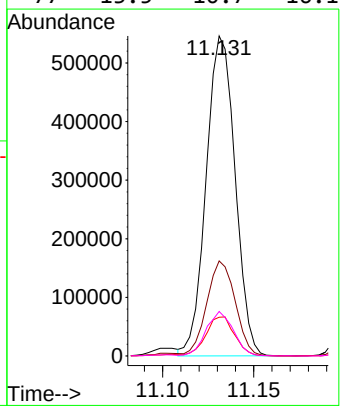


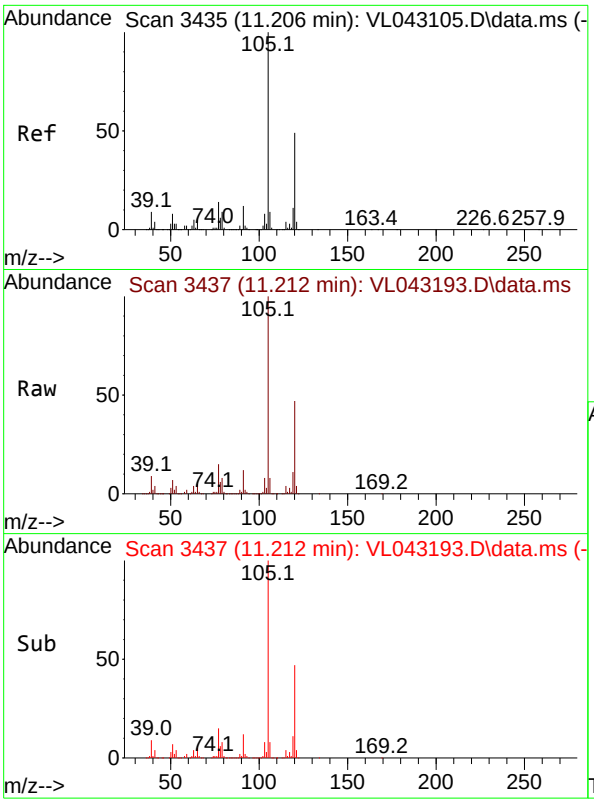


#72
4-Ethyltoluene
Concen: 11.124 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:105 Resp: 603491

Ion	Ratio	Lower	Upper
105	100		
120	30.1	24.2	36.4
91	12.7	10.0	15.0
77	13.5	10.7	16.1



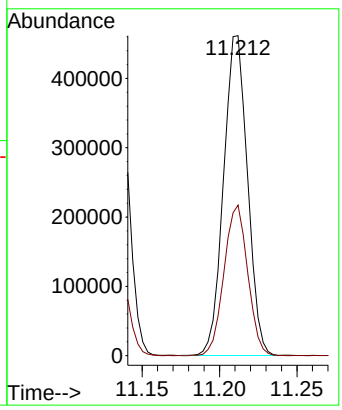


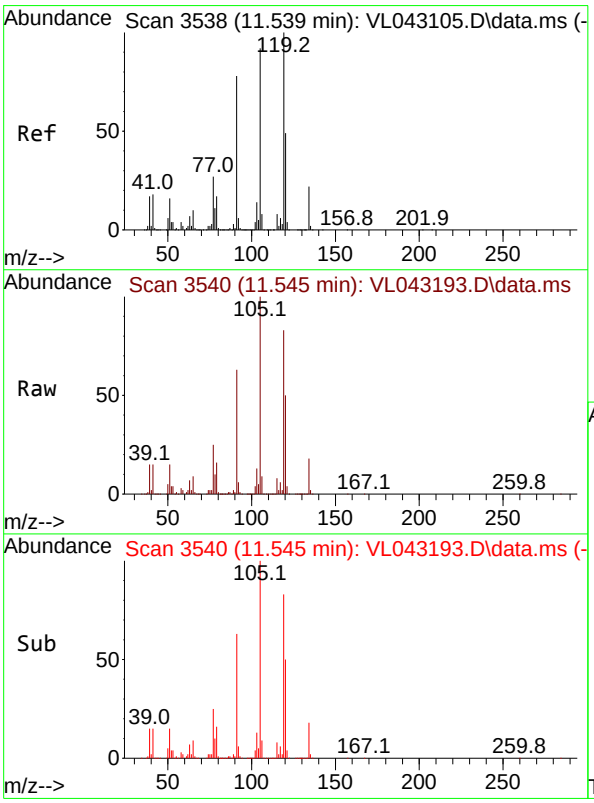
#73
1,3,5-Trimethylbenzene
Concen: 11.091 ppbv
RT: 11.212 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:105 Resp: 496215

Ion	Ratio	Lower	Upper
105	100		
120	47.0	39.0	58.6

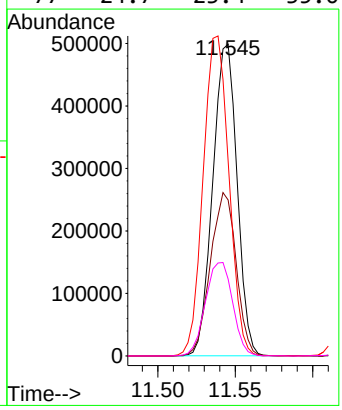


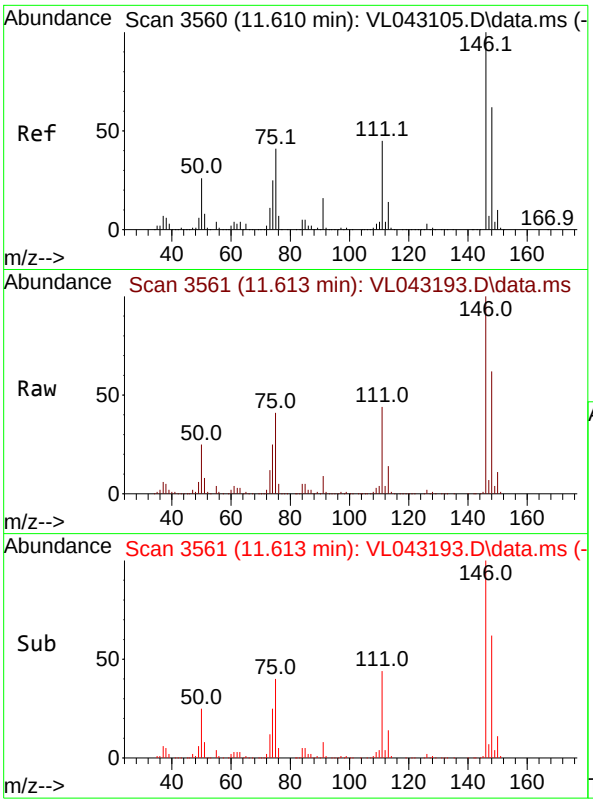


#74
1,2,4-Trimethylbenzene
Concen: 10.858 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:105 Resp: 543655

Ion	Ratio	Lower	Upper
105	100		
120	50.0	42.8	64.2
91	62.6	68.3	102.5#
77	24.7	23.4	35.0



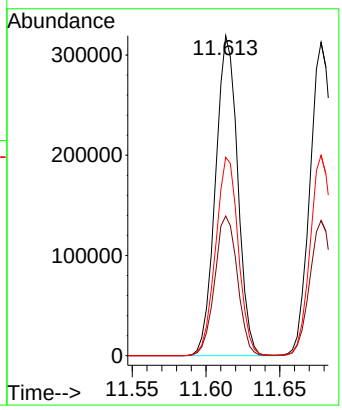


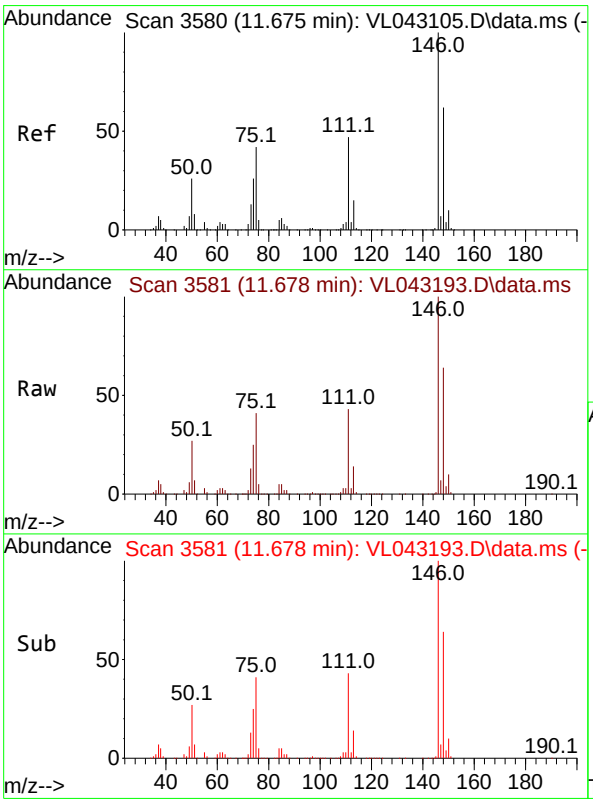
#75
1,3-Dichlorobenzene
Concen: 11.522 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:146 Resp: 334602

Ion	Ratio	Lower	Upper
146	100		
111	44.6	23.3	69.9
148	63.4	31.6	95.0

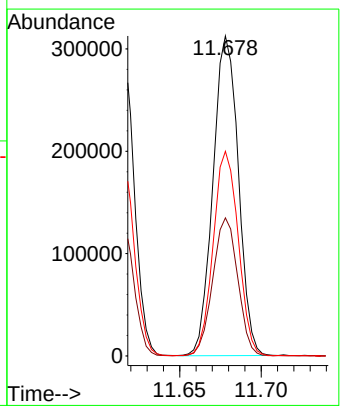


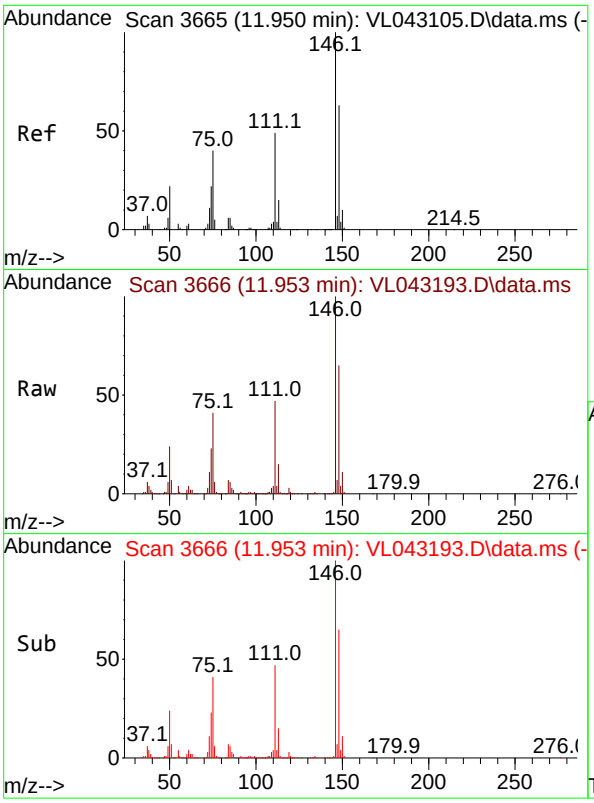


#76
1,4-Dichlorobenzene
Concen: 11.534 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:146 Resp: 337741

Ion	Ratio	Lower	Upper
146	100		
111	42.8	22.4	67.0
148	63.5	31.6	94.7



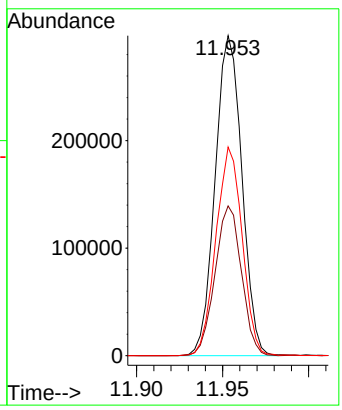


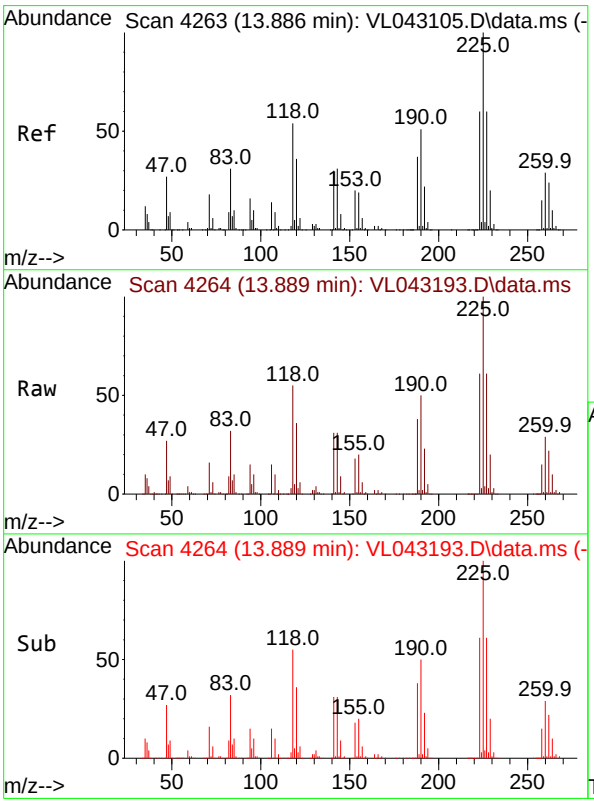
#77
1,2-Dichlorobenzene
Concen: 11.456 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:146 Resp: 321835

Ion	Ratio	Lower	Upper
146	100		
111	46.4	24.0	72.0
148	64.2	31.1	93.3

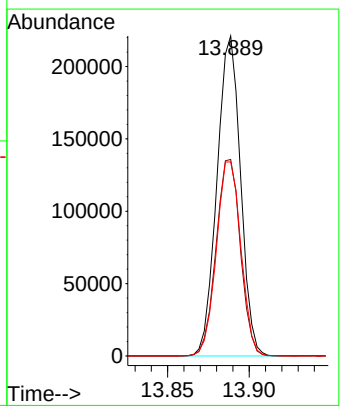


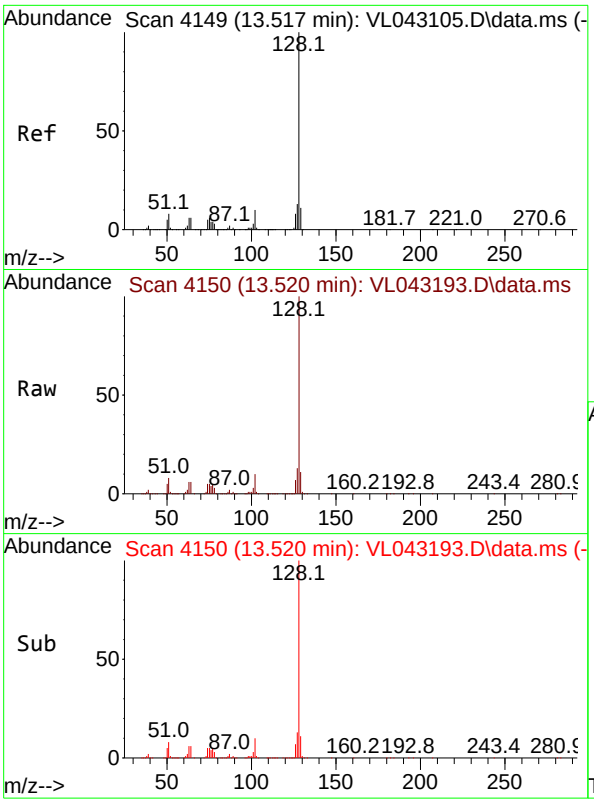


#78
Hexachloro-1,3-Butadiene
Concen: 10.210 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:225 Resp: 222076

Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.2	75.4
227	63.2	49.6	74.4



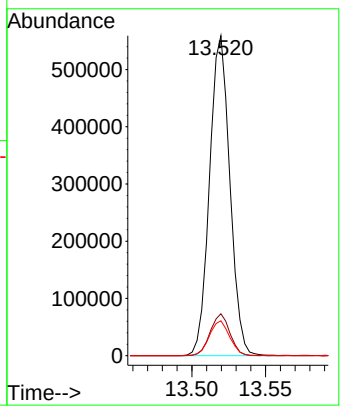


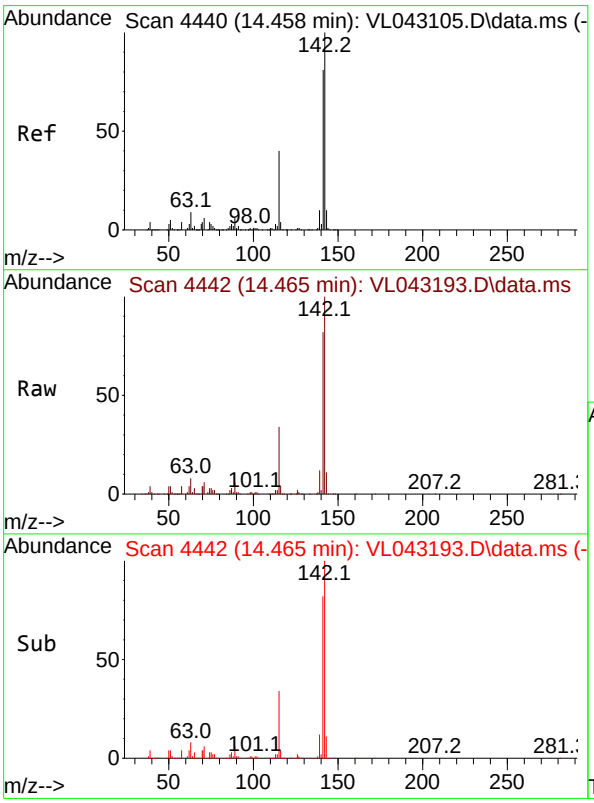
#79
Naphthalene
Concen: 10.240 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:128 Resp: 535902

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.9	9.1	13.7

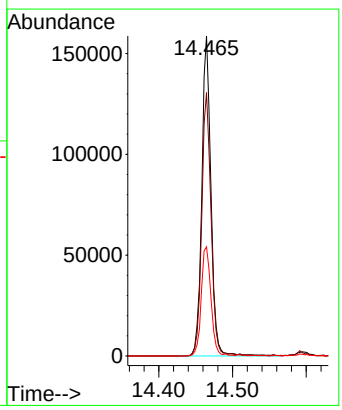


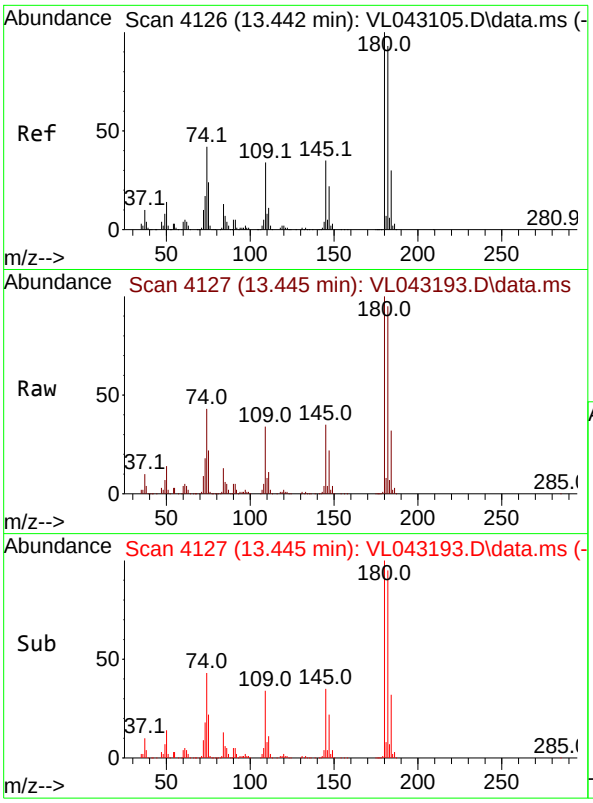


#80
Naphthalene,2-methyl-
Concen: 10.037 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.006 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Tgt Ion:142 Resp: 136849

Ion	Ratio	Lower	Upper
142	100		
141	84.1	64.6	97.0
115	36.9	30.2	45.4



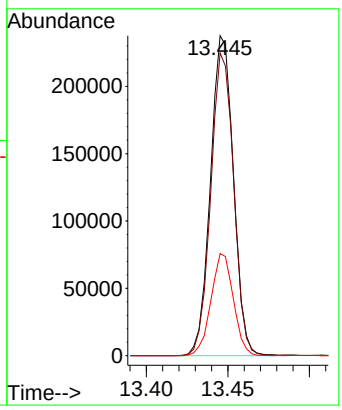


#81
1,2,4-Trichlorobenzene
Concen: 10.710 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043193.D
Acq: 13 Nov 2025 10:53

Instrument :
MSVOA_L
ClientSampleId :
VL1113ABS01

Tgt Ion:180 Resp: 232626

Ion	Ratio	Lower	Upper
180	100		
182	94.2	75.5	113.3
184	31.1	23.9	35.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043194.D
Acq On : 13 Nov 2025 11:52
Operator : SY/MD
Sample : Q3627-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Quant Time: Nov 14 04:37:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

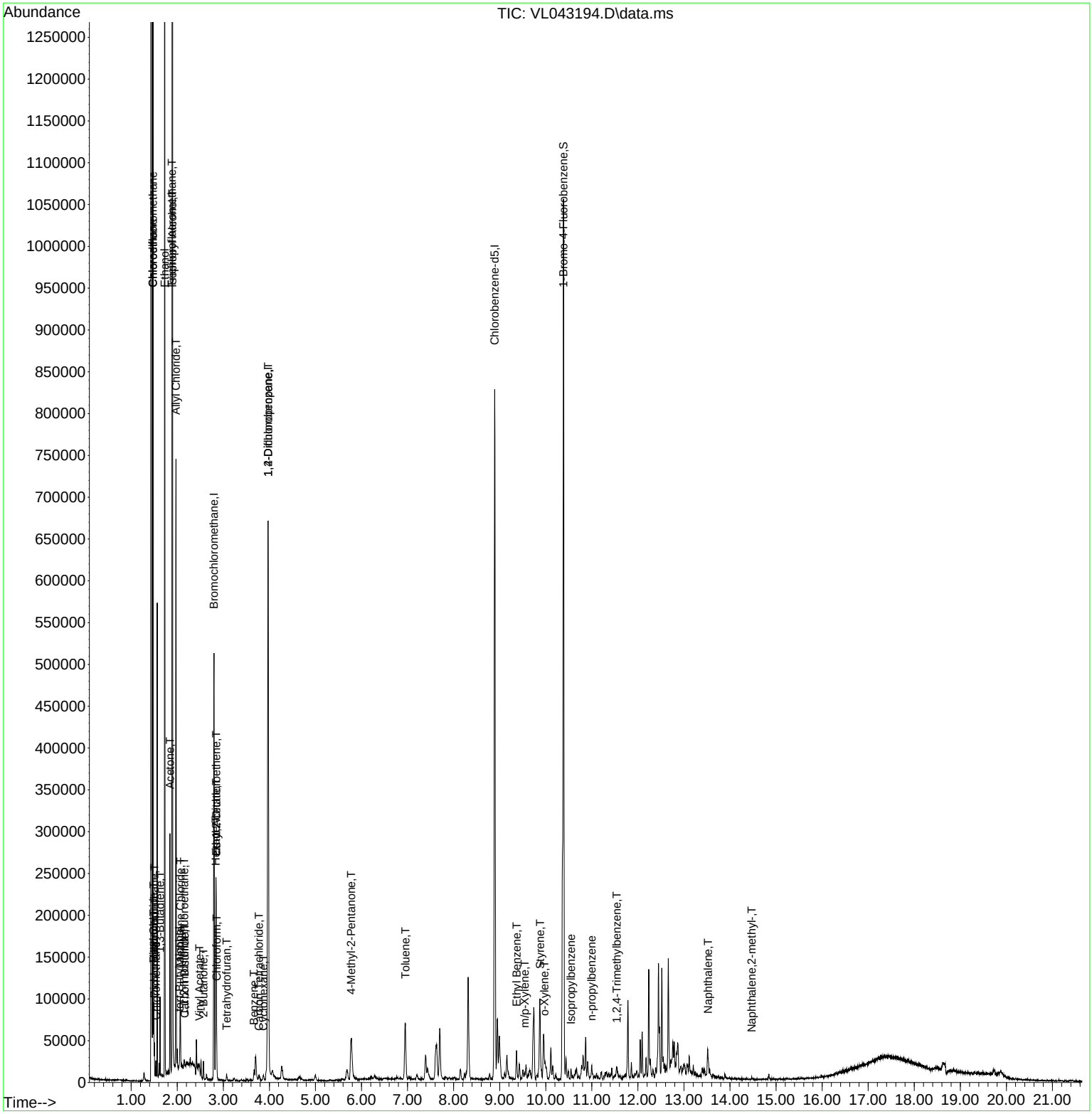
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	144607	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.972	114	396555	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.892	117	342186	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.384	95	278374	10.466	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8556	0.416	ppbv		96
3) Chlorodifluoromethane	1.470	51	2457742	110.496	ppbv	#	58
4) Chloromethane	1.538	50	3563	0.437	ppbv	#	82
5) Vinyl Chloride	1.489	62	364	0.046	ppbv	#	70
7) Chloroethane	1.470	64	234059	71.666	ppbv		97
9) Propene	1.489	41	7778	0.788	ppbv		97
11) Trichlorofluoromethane	1.884	101	5979	0.297	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.150	101	1193	0.074	ppbv		98
13) Ethanol	1.726	45	529858	145.204	ppbv		97
15) Acetone	1.842	43	123766	6.350	ppbv		97
16) 1,3-Butadiene	1.625	39	3970	0.427	ppbv	#	25
17) tert-Butyl alcohol	2.049	59	7384	0.276	ppbv	#	1
19) Isopropyl Alcohol	1.891	45	1775861	146.290	ppbv	#	37
20) Methylene Chloride	2.069	84	6423	0.834	ppbv		95
21) Allyl Chloride	1.972	41	99676	6.940	ppbv	#	55
23) Vinyl Acetate	2.480	43	3399	0.119	ppbv	#	85
25) Ethyl Acetate	2.846	43	111799	2.313	ppbv		97
26) Hexane	2.836	57	36703	1.648	ppbv	#	65
27) Carbon Disulfide	2.159	76	1208	0.059	ppbv	#	60
29) Chloroform	2.855	83	1202	0.037	ppbv	#	74
30) Cyclohexane	3.872	84	970	0.050	ppbv	#	20
31) cis-1,2-Dichloroethene	2.846	61	10409	0.489	ppbv	#	24
34) 2-Butanone	2.567	43	13729	0.515	ppbv		99
35) Carbon Tetrachloride	3.775	117	1110	0.039	ppbv	#	78
36) Benzene	3.668	78	7434	0.199	ppbv	#	86
39) 1,2-Dichloropropane	3.972	63	102088	7.477	ppbv	#	24
41) Tetrahydrofuran	3.072	42	2006	0.135	ppbv	#	63
50) 4-Methyl-2-Pentanone	5.775	43	25552	0.695	ppbv	#	53
53) Toluene	6.953	91	25505	0.575	ppbv	#	20
58) Ethyl Benzene	9.367	91	17904	0.305	ppbv		100
59) m/p-Xylene	9.542	91	2509	0.054	ppbv	#	40
60) o-Xylene	9.973	91	2099	0.045	ppbv		74
61) Styrene	9.879	104	12213	0.585	ppbv		94
62) Isopropylbenzene	10.549	105	5126	0.061	ppbv		93
64) n-propylbenzene	10.999	120	935	0.042	ppbv	#	10
74) 1,2,4-Trimethylbenzene	11.542	105	2595	0.049	ppbv	#	56
79) Naphthalene	13.527	128	3328	0.061	ppbv	#	76
80) Naphthalene,2-methyl-	14.472	142	510	0.036	ppbv	#	45

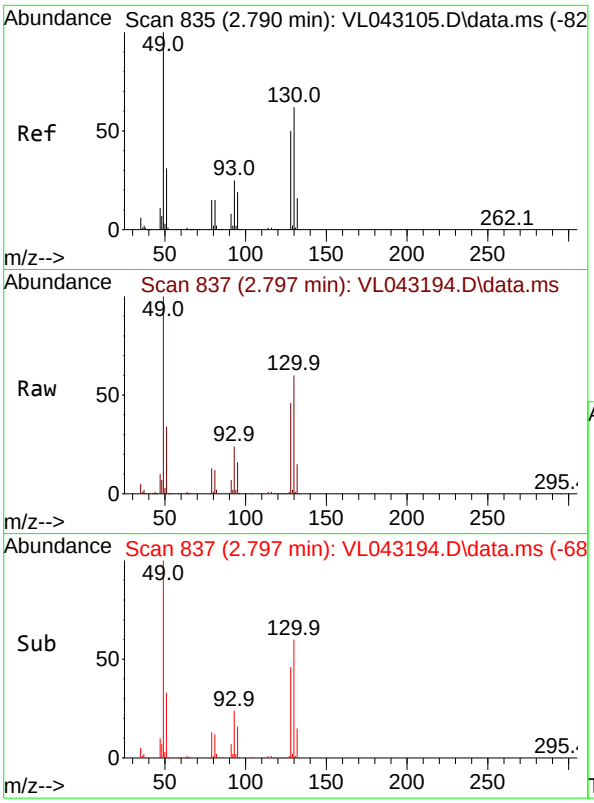
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043194.D
Acq On : 13 Nov 2025 11:52
Operator : SY/MD
Sample : Q3627-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Quant Time: Nov 14 04:37:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



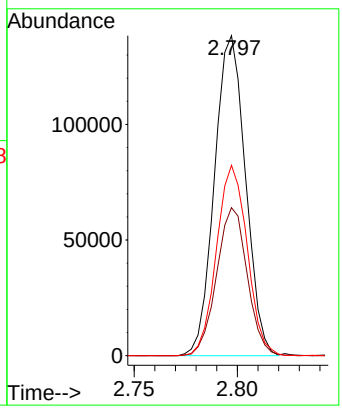


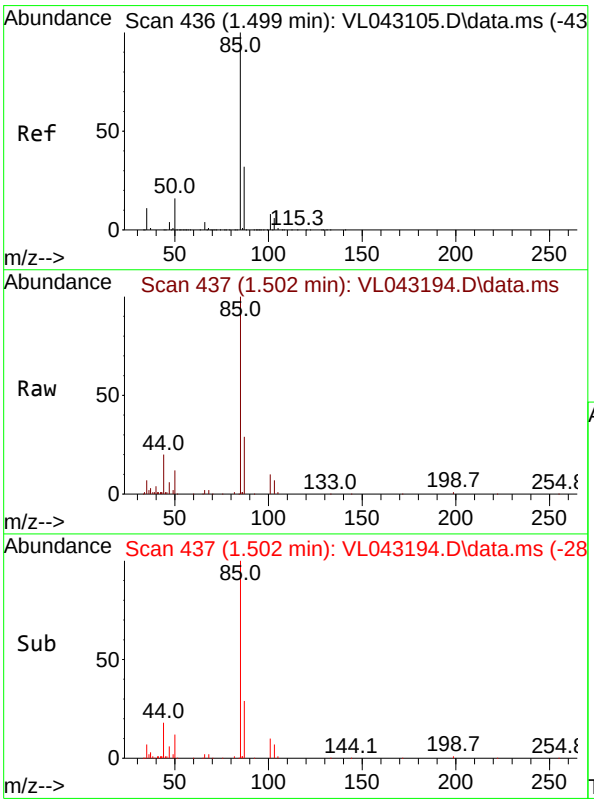
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 49 Resp: 144607

Ion	Ratio	Lower	Upper
49	100		
128	45.7	24.4	73.4
130	58.9	31.0	93.0

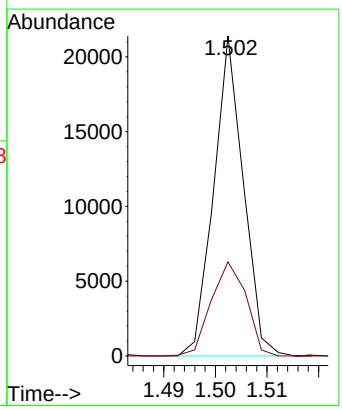


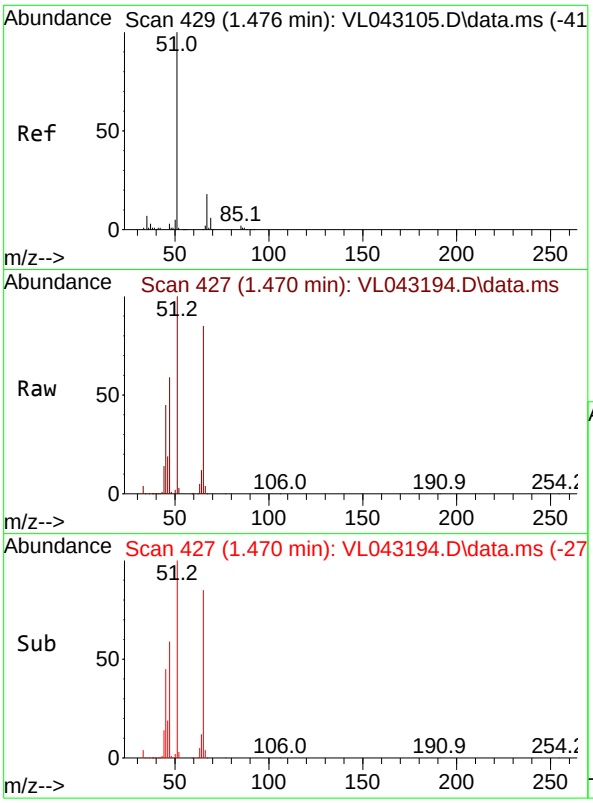


#2
Dichlorodifluoromethane
Concen: 0.416 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 85 Resp: 8556

Ion	Ratio	Lower	Upper
85	100		
87	29.4	25.3	37.9



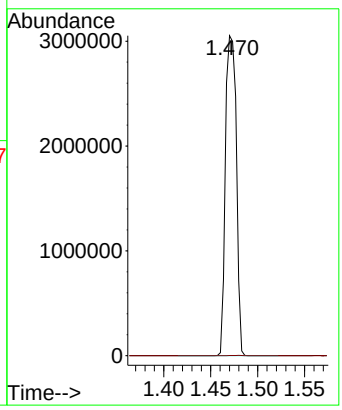


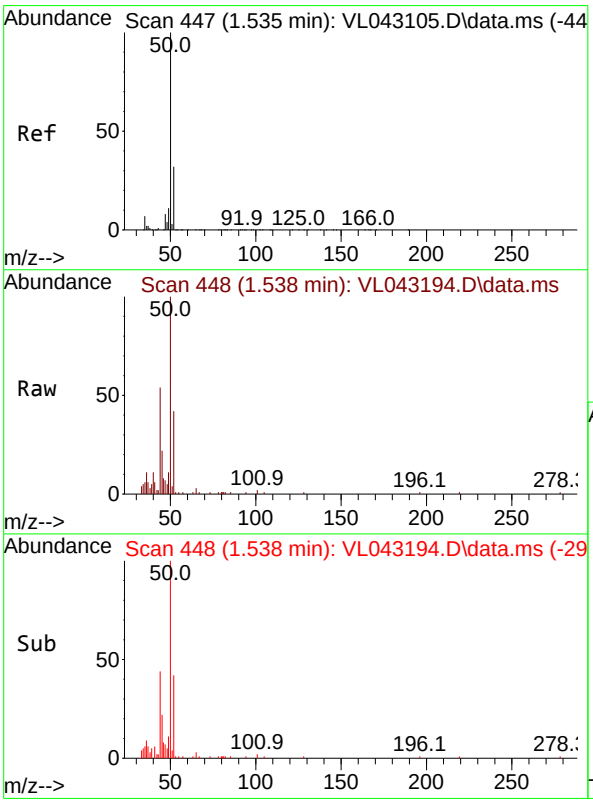
#3
Chlorodifluoromethane
Concen: 110.496 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 51 Resp: 2457742

Ion	Ratio	Lower	Upper
51	100		
67	0.1	15.1	22.7#

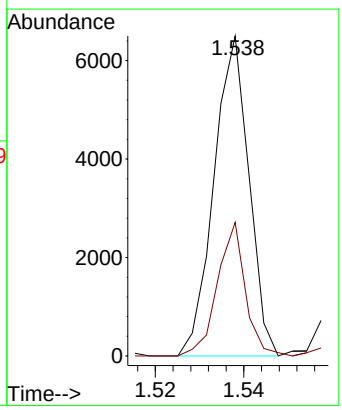


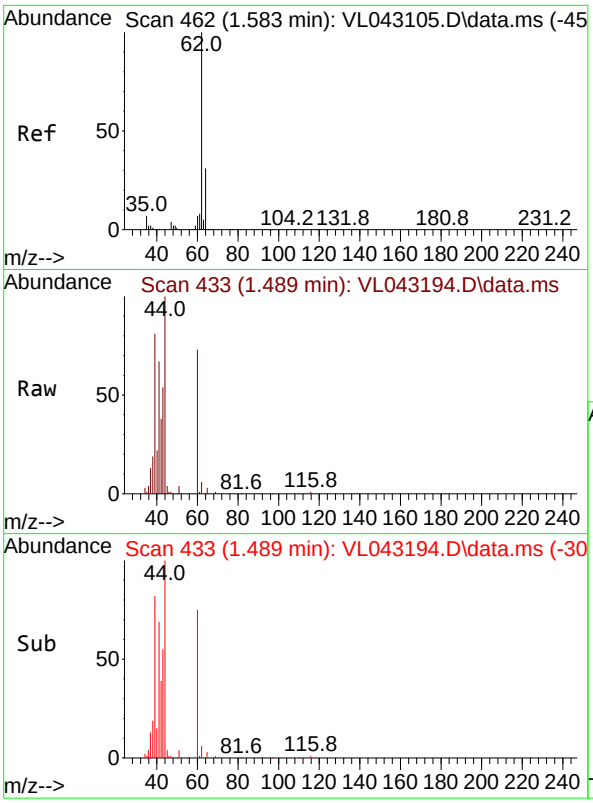


#4
Chloromethane
Concen: 0.437 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 50 Resp: 3563

Ion	Ratio	Lower	Upper
50	100		
52	41.7	25.2	37.8#



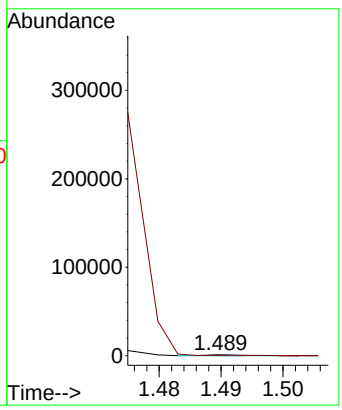


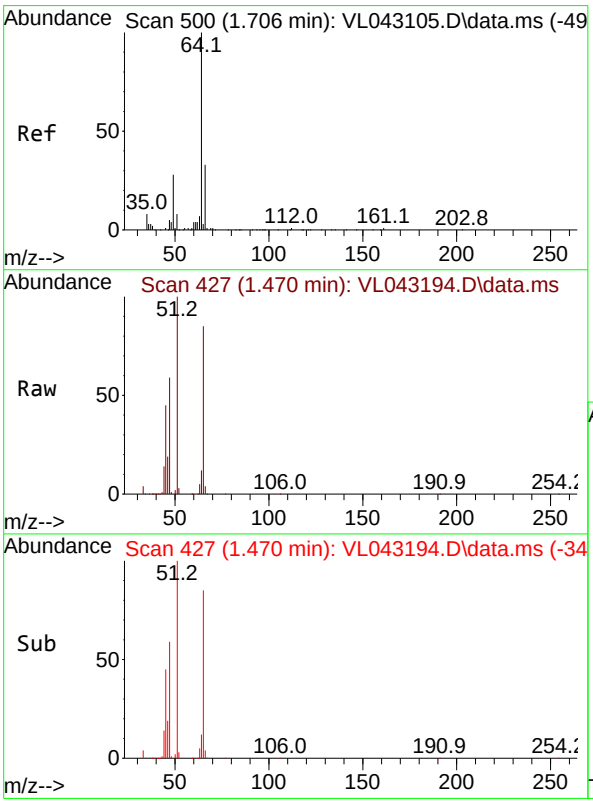
#5
Vinyl Chloride
Concen: 0.046 ppbv
RT: 1.489 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 62 Resp: 364

Ion	Ratio	Lower	Upper
62	100		
64	47.0	24.6	36.8#

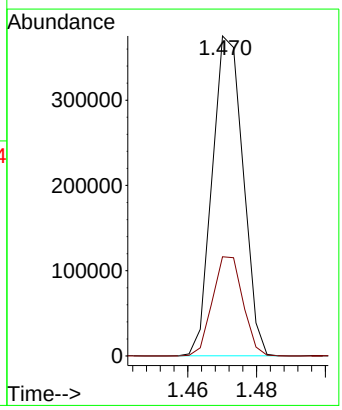


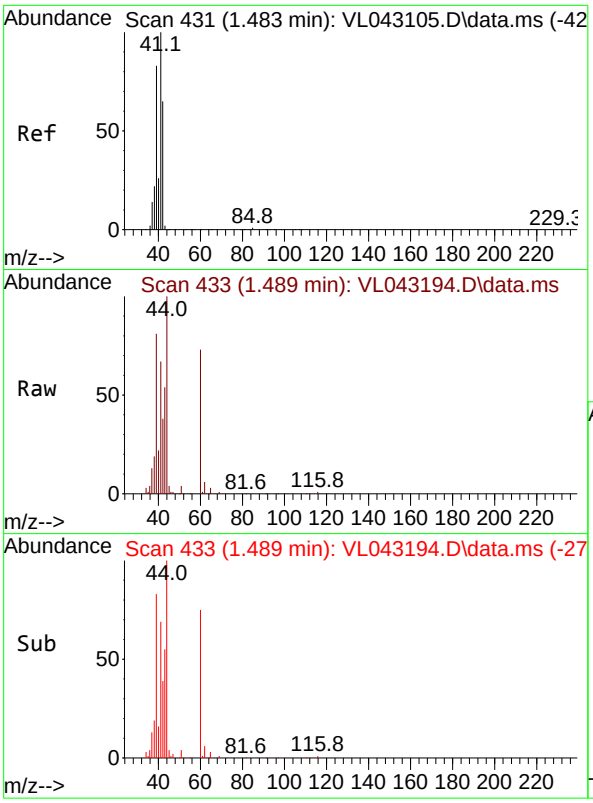


#7
Chloroethane
Concen: 71.666 ppbv
RT: 1.470 min Scan# 427
Delta R.T. -0.236 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 64 Resp: 234059

Ion	Ratio	Lower	Upper
64	100		
66	31.0	26.0	39.0



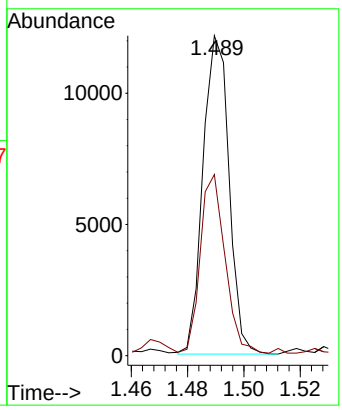


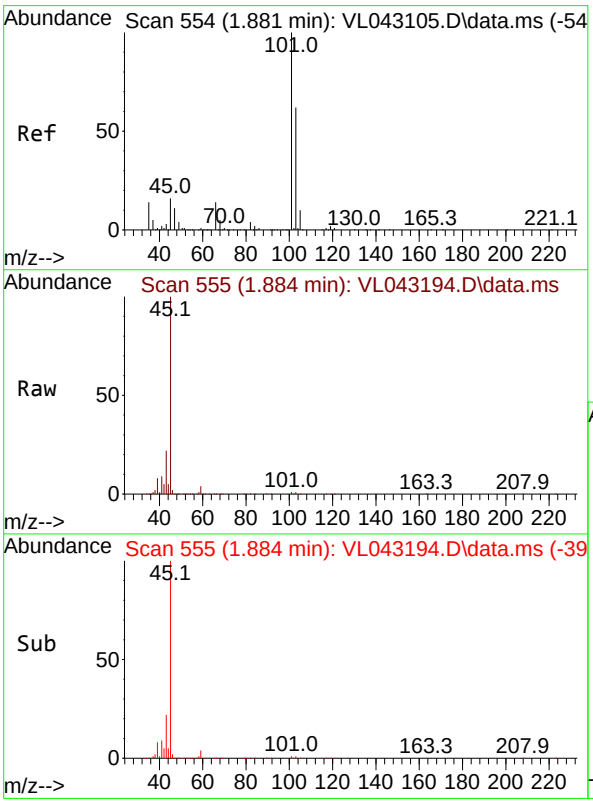
#9
Propene
Concen: 0.788 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 41 Resp: 7778

Ion	Ratio	Lower	Upper
41	100		
42	66.8	55.1	82.7

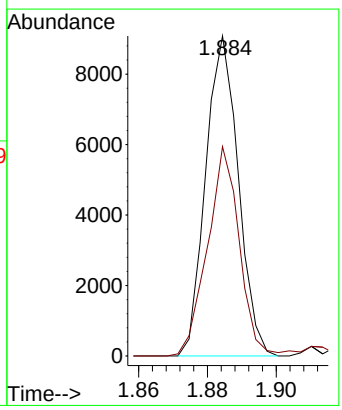


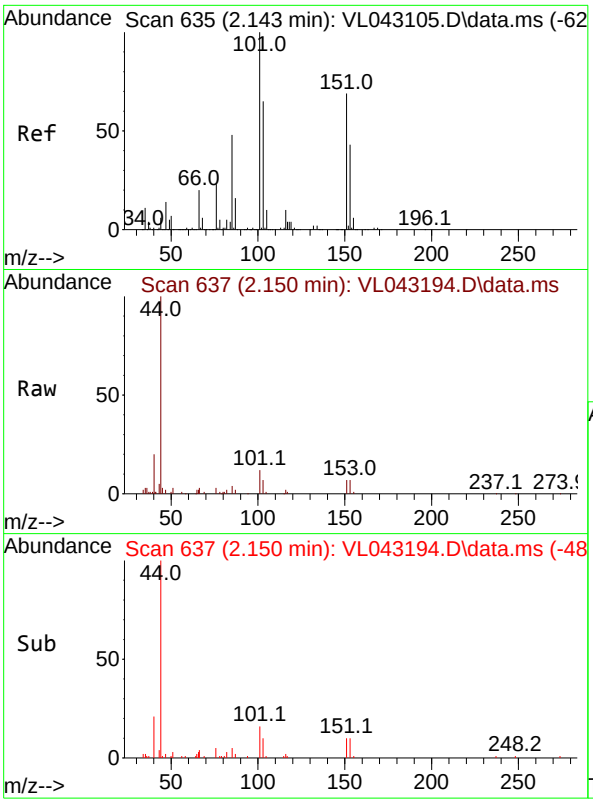


#11
Trichlorofluoromethane
Concen: 0.297 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:101 Resp: 5979

Ion	Ratio	Lower	Upper
101	100		
103	64.8	49.3	73.9



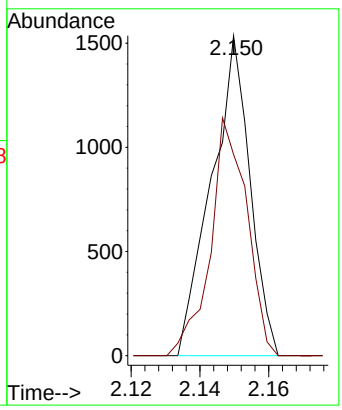


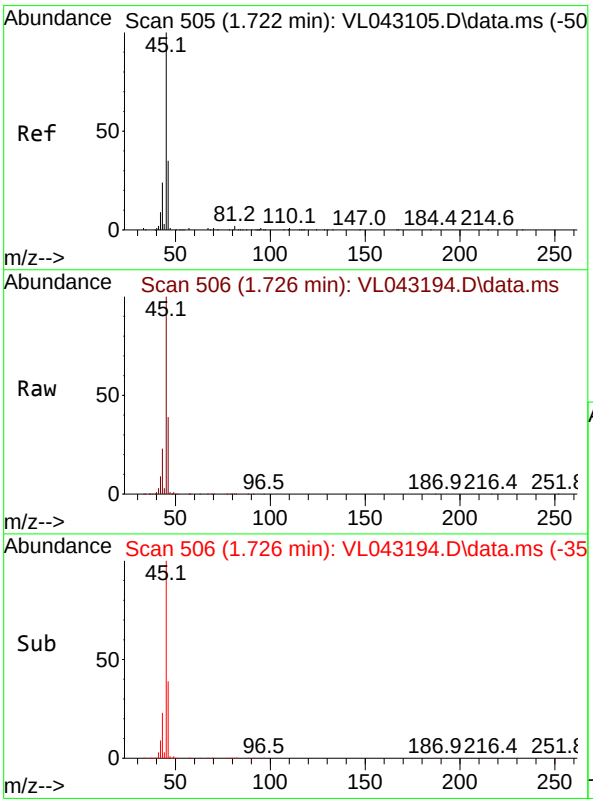
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion:101 Resp: 1193

Ion	Ratio	Lower	Upper
101	100		
151	70.2	54.7	82.1

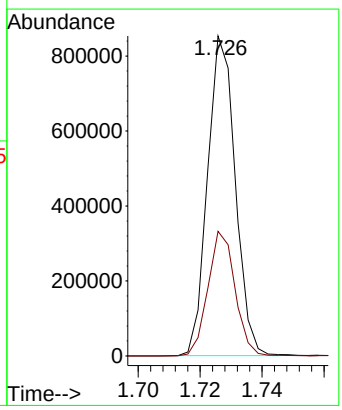


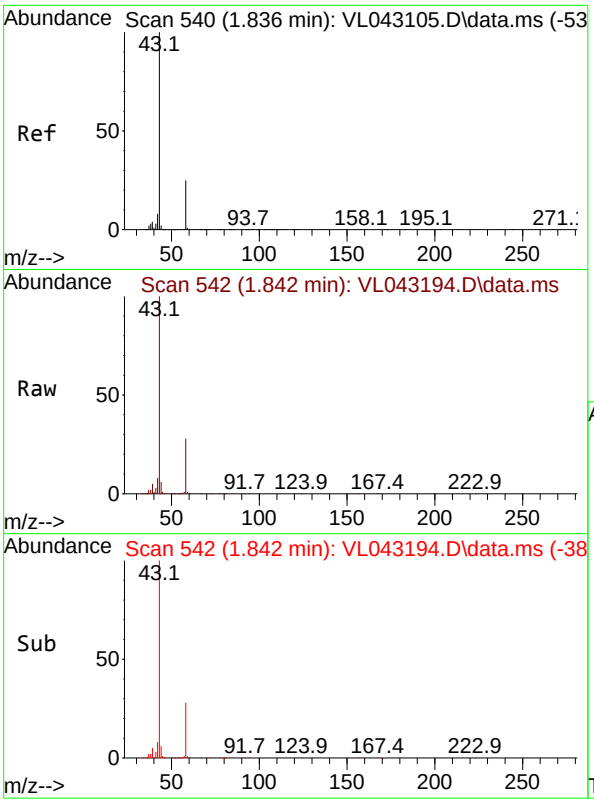


#13
Ethanol
Concen: 145.204 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 45 Resp: 529858

Ion	Ratio	Lower	Upper
45	100		
46	38.6	14.7	58.9



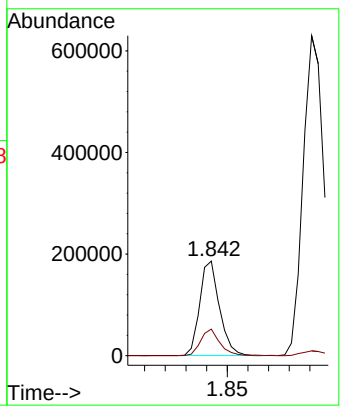


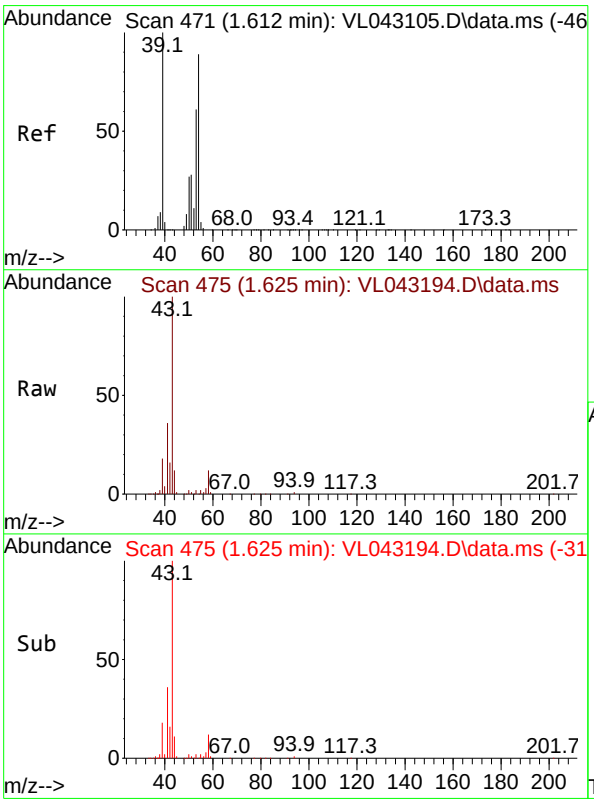
#15
Acetone
Concen: 6.350 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 43 Resp: 123766

Ion	Ratio	Lower	Upper
43	100		
58	27.3	20.8	31.2

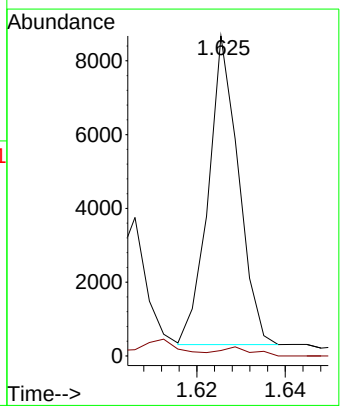


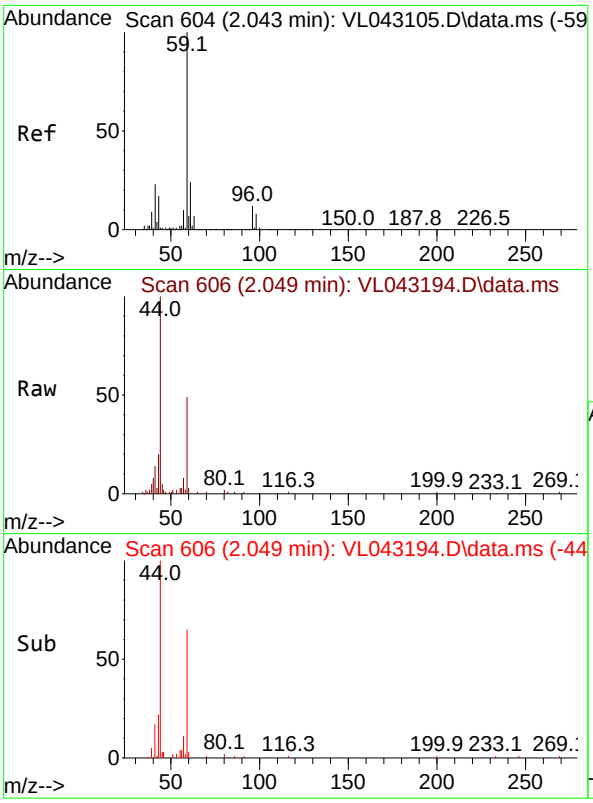


#16
1,3-Butadiene
Concen: 0.427 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.013 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 39 Resp: 3970

Ion	Ratio	Lower	Upper
39	100		
54	10.8	59.0	88.4#



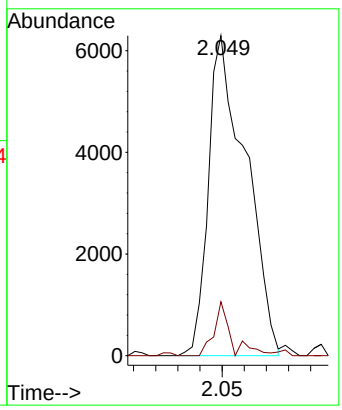


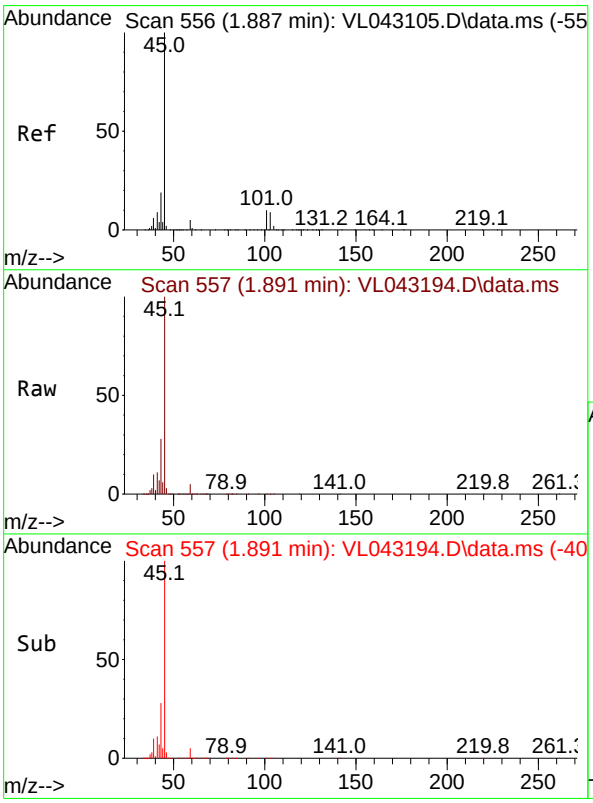
#17
tert-Butyl alcohol
Concen: 0.276 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 59 Resp: 7384

Ion	Ratio	Lower	Upper
59	100		
57	351.5	8.2	12.4#

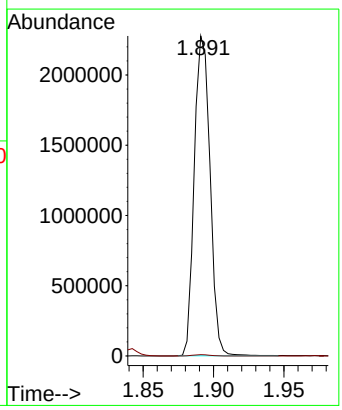


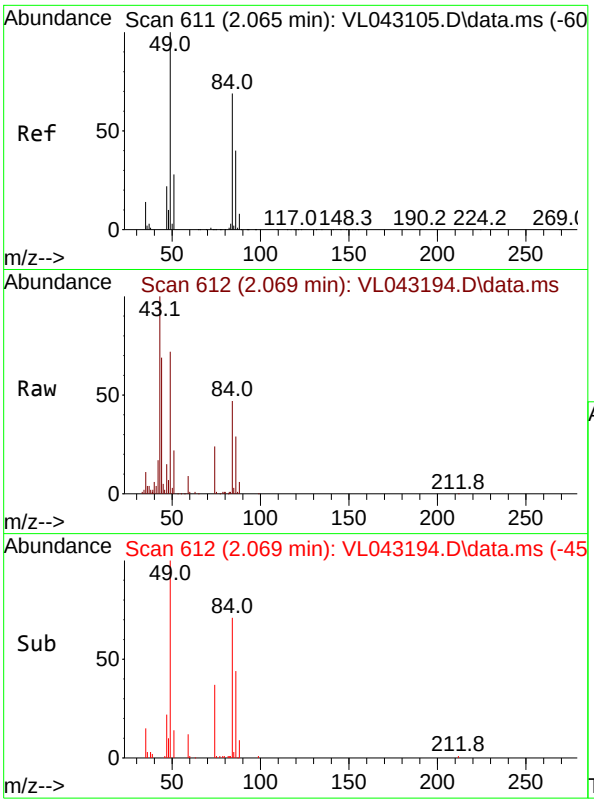


#19
Isopropyl Alcohol
Concen: 146.290 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 45 Resp: 1775861

Ion	Ratio	Lower	Upper
45	100		
58	0.4	31.3	46.9#



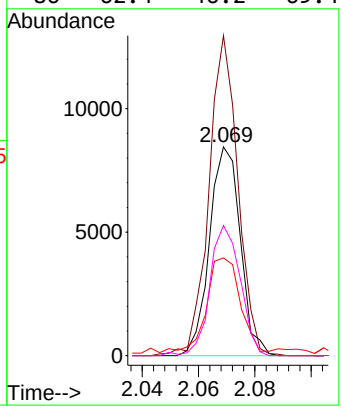


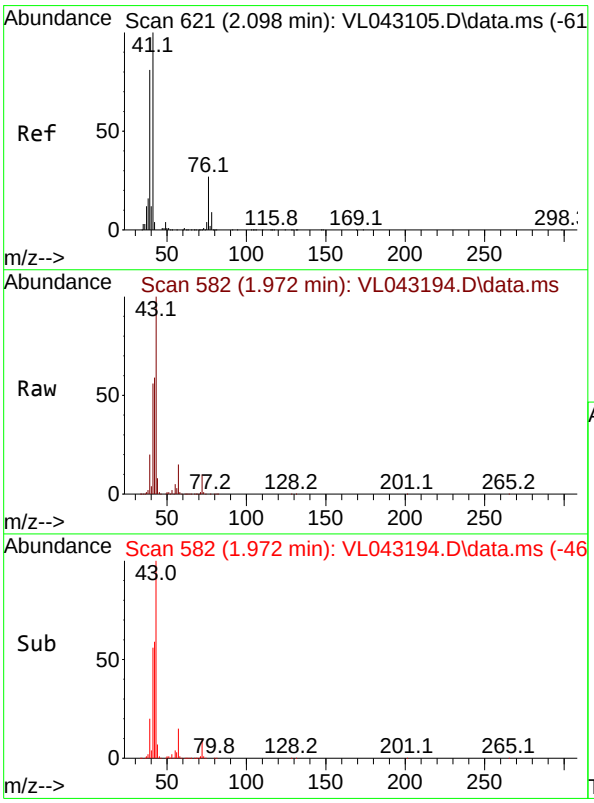
#20
Methylene Chloride
Concen: 0.834 ppbv
RT: 2.069 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 84 Resp: 6423

Ion	Ratio	Lower	Upper
84	100		
49	152.6	116.6	175.0
51	44.2	34.8	52.2
86	62.4	46.2	69.4

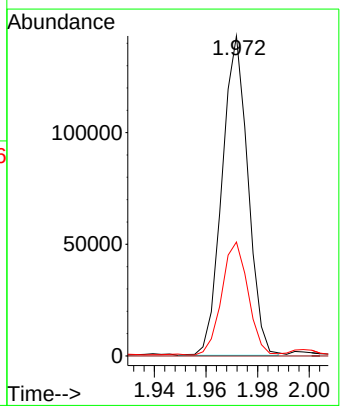


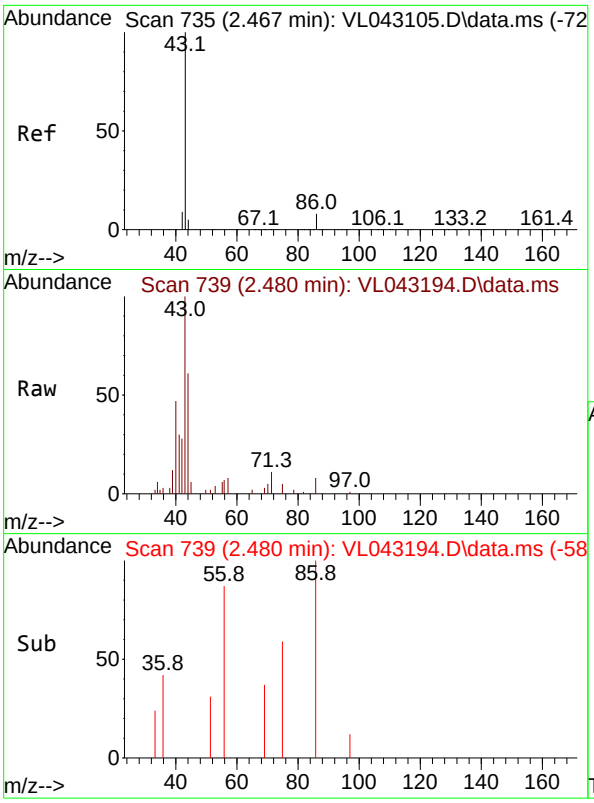


#21
Allyl Chloride
Concen: 6.940 ppbv
RT: 1.972 min Scan# 582
Delta R.T. -0.126 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 41 Resp: 99676

Ion	Ratio	Lower	Upper
41	100		
76	1.2	21.5	32.3#
39	38.6	60.8	91.2#



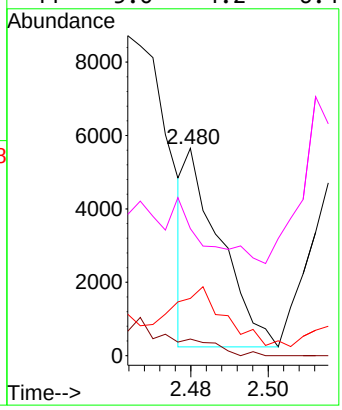


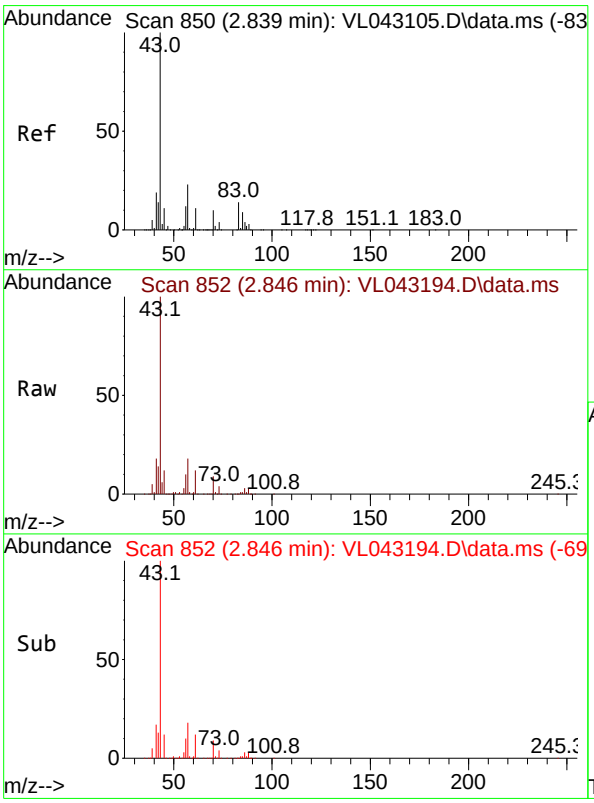
#23
Vinyl Acetate
Concen: 0.119 ppbv
RT: 2.480 min Scan# 7
Delta R.T. 0.013 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 43 Resp: 3399

Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.2	9.2
42	21.4	7.6	11.4#
44	5.0	4.2	6.4

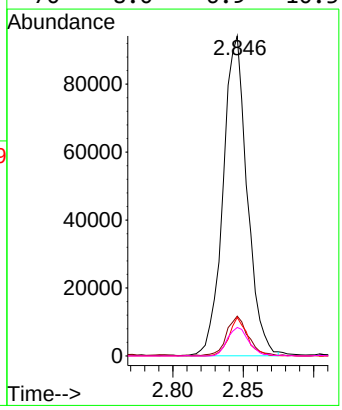


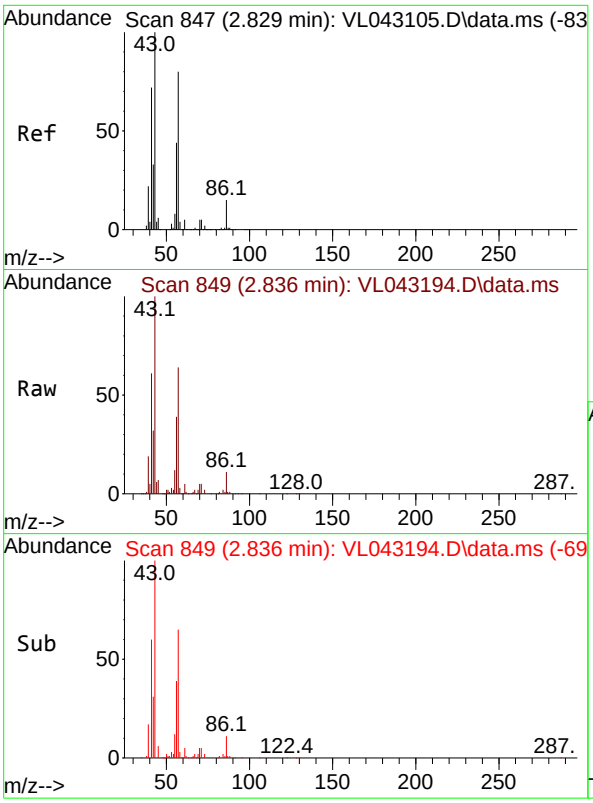


#25
Ethyl Acetate
Concen: 2.313 ppbv
RT: 2.846 min Scan# 852
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 43 Resp: 111799

Ion	Ratio	Lower	Upper
43	100		
45	11.5	7.8	11.8
61	9.3	7.0	10.6
70	8.0	6.9	10.3



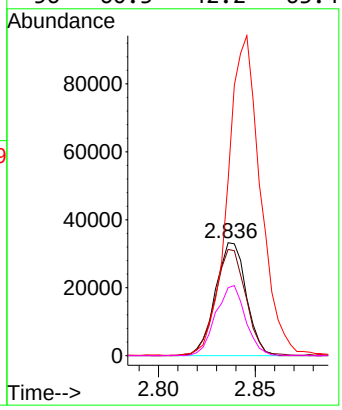


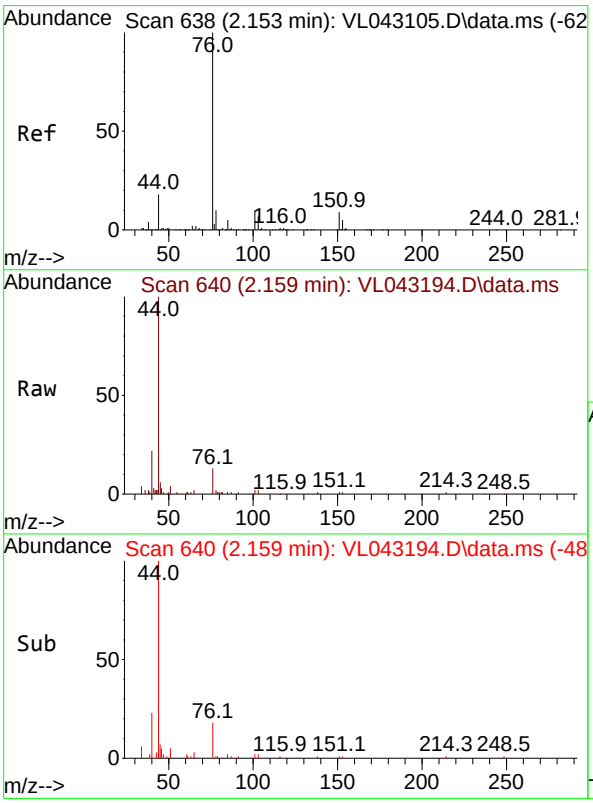
#26
Hexane
Concen: 1.648 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 57 Resp: 36703

Ion	Ratio	Lower	Upper
57	100		
41	95.9	71.4	107.0
43	307.6	178.5	267.7#
56	60.3	42.2	63.4

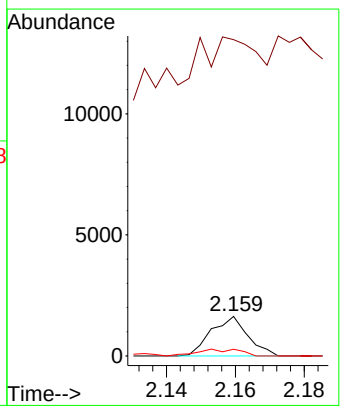


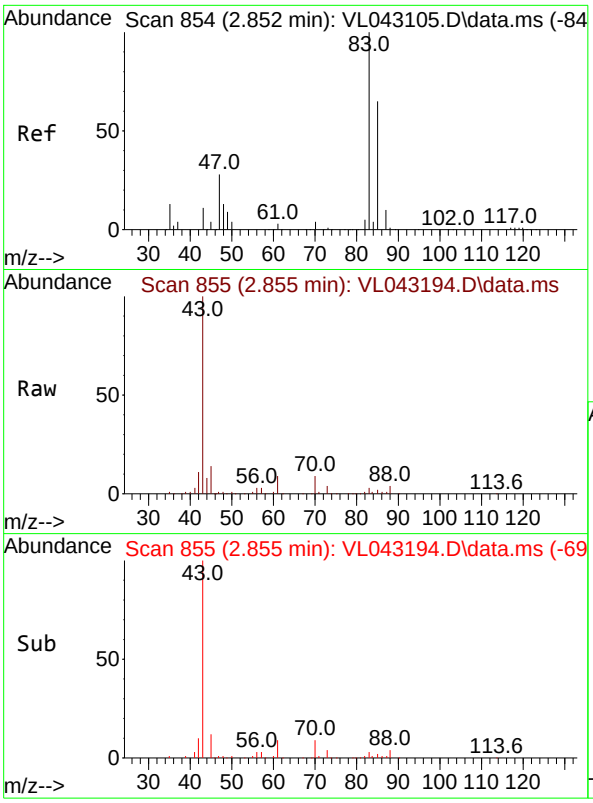


#27
Carbon Disulfide
Concen: 0.059 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 76 Resp: 1208

Ion	Ratio	Lower	Upper
76	100		
44	0.0	16.7	25.1#
78	23.8	9.3	13.9#



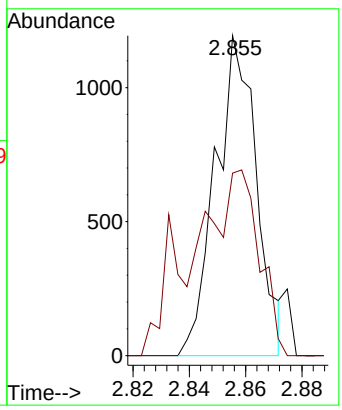


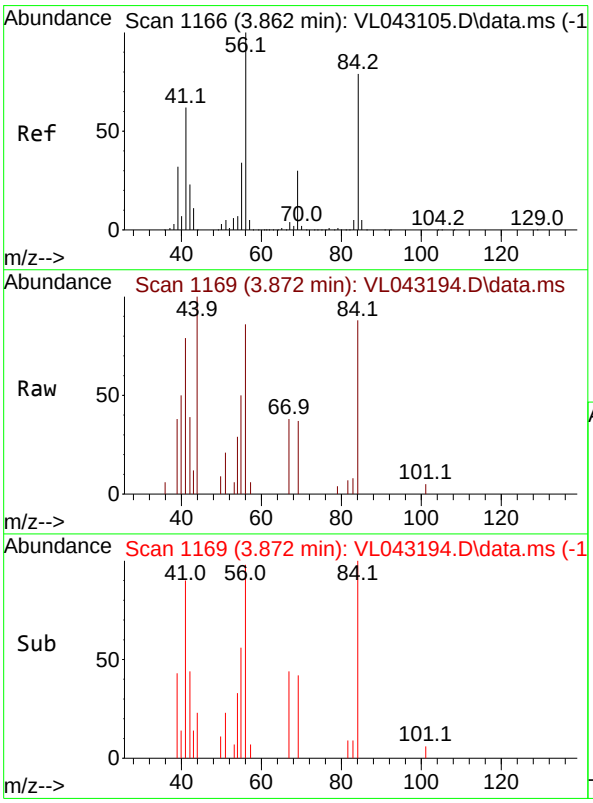
#29
Chloroform
Concen: 0.037 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 83 Resp: 1202

Ion	Ratio	Lower	Upper
83	100		
85	44.3	51.8	77.6#

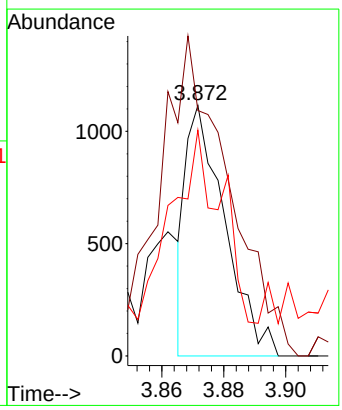


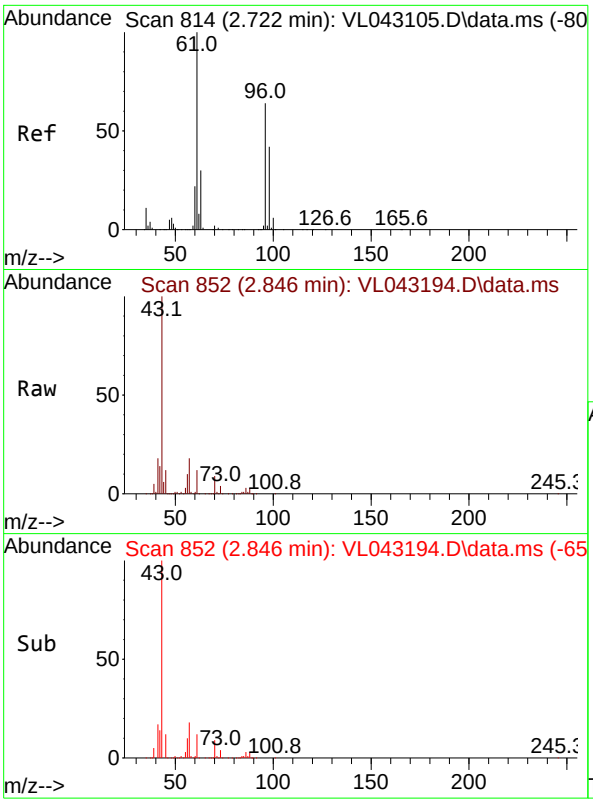


#30
Cyclohexane
Concen: 0.050 ppbv
RT: 3.872 min Scan# 1169
Delta R.T. 0.010 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 84 Resp: 970

Ion	Ratio	Lower	Upper
84	100		
56	239.8	100.9	151.3#
41	122.6	63.8	95.6#



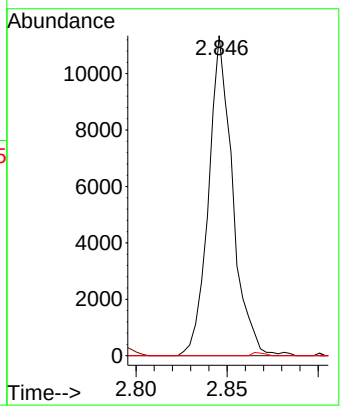


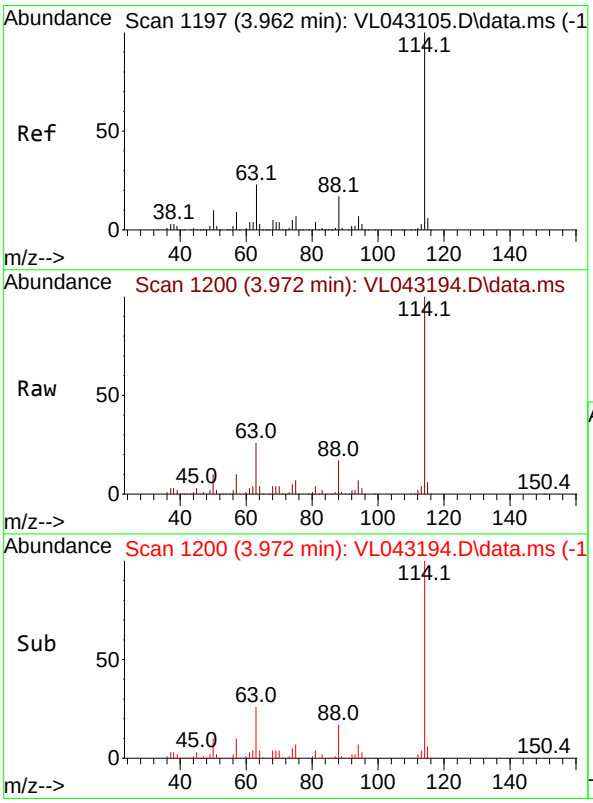
#31
cis-1,2-Dichloroethene
Concen: 0.489 ppbv
RT: 2.846 min Scan# 8
Delta R.T. 0.123 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 61 Resp: 10409

Ion	Ratio	Lower	Upper
61	100		
96	0.0	51.0	76.6#
98	0.0	33.5	50.3#

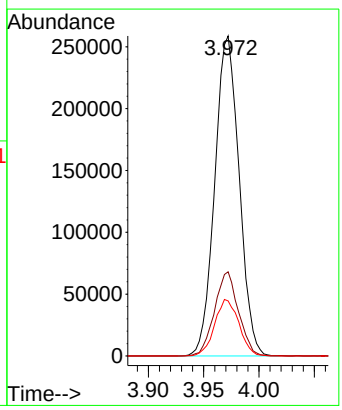


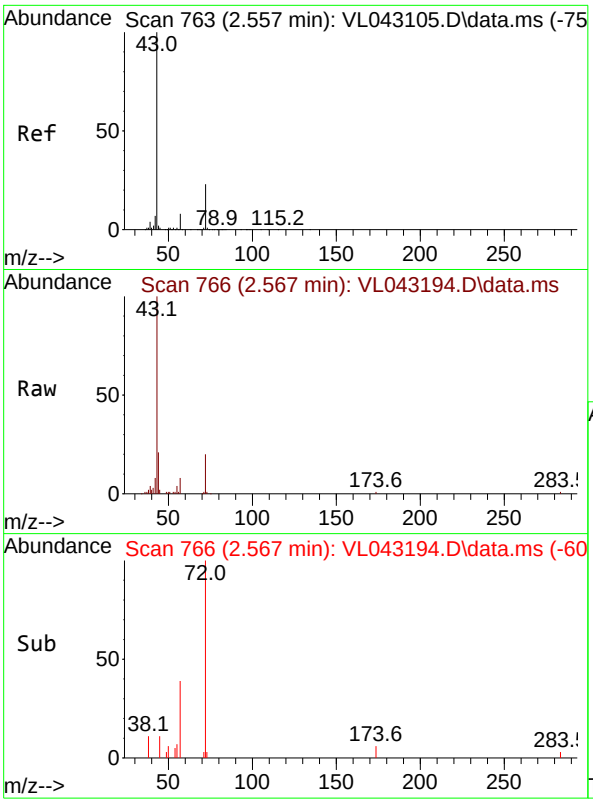


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.010 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:114 Resp: 396555

Ion	Ratio	Lower	Upper
114	100		
63	25.8	19.3	28.9
88	17.6	13.9	20.9



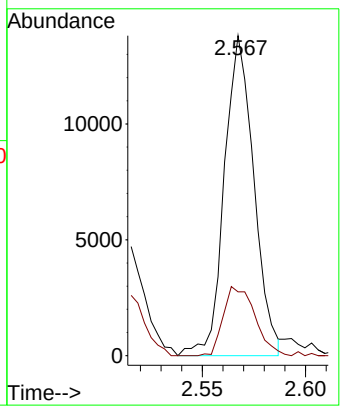


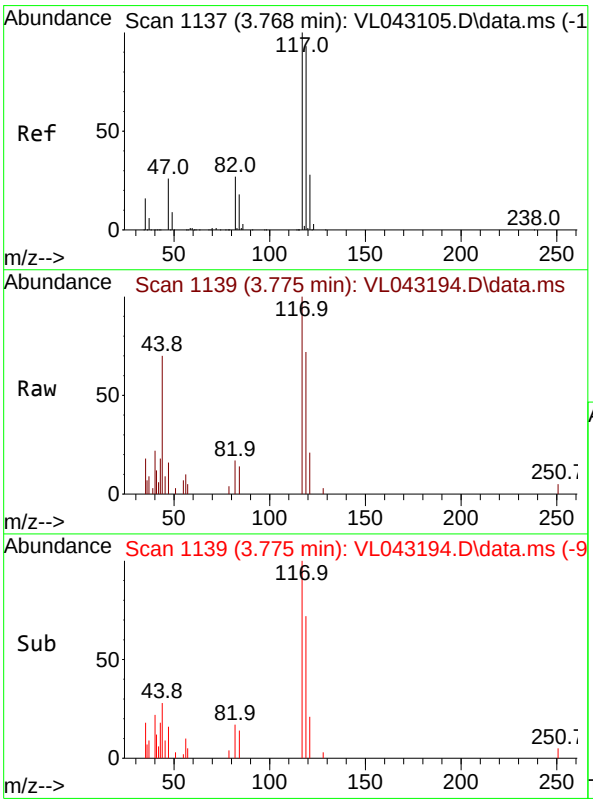
#34
2-Butanone
Concen: 0.515 ppbv
RT: 2.567 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 43 Resp: 13729

Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.4	27.6

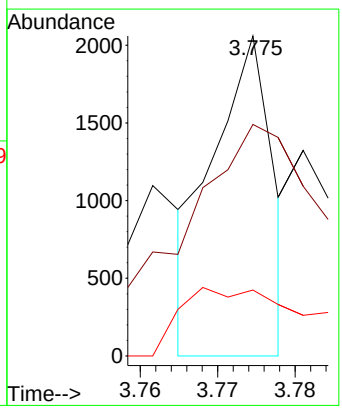


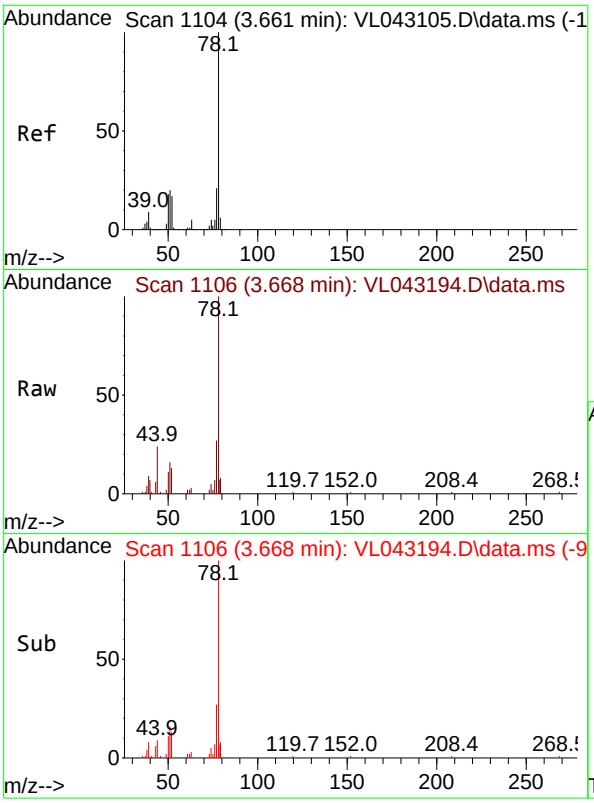


#35
Carbon Tetrachloride
Concen: 0.039 ppbv
RT: 3.775 min Scan# 1139
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:117 Resp: 1110

Ion	Ratio	Lower	Upper
117	100		
119	74.8	74.1	111.1
121	11.1	22.2	33.2#



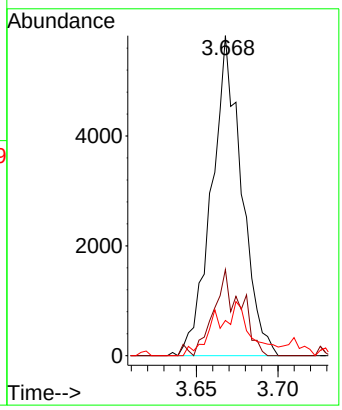


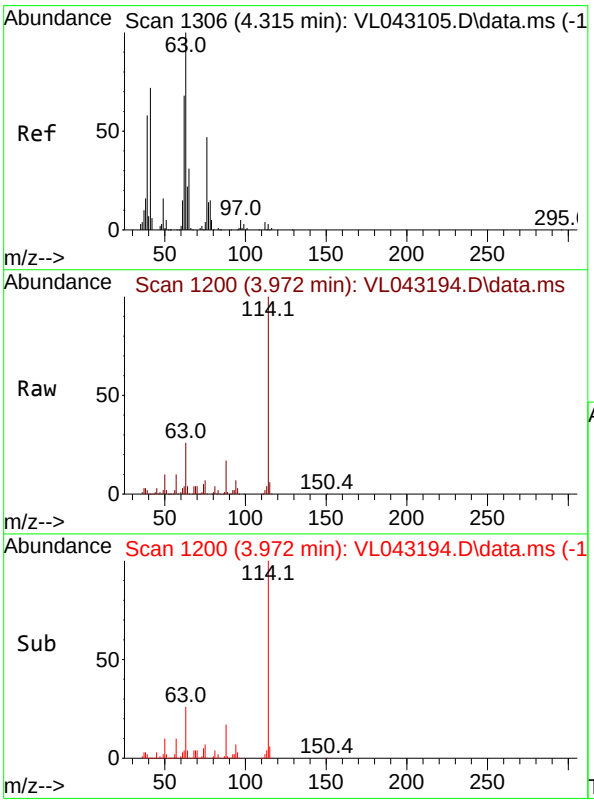
#36
Benzene
Concen: 0.199 ppbv
RT: 3.668 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 78 Resp: 7434

Ion	Ratio	Lower	Upper
78	100		
77	26.9	17.0	25.6#
50	11.0	14.6	22.0#

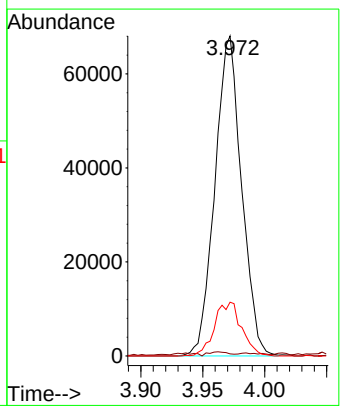


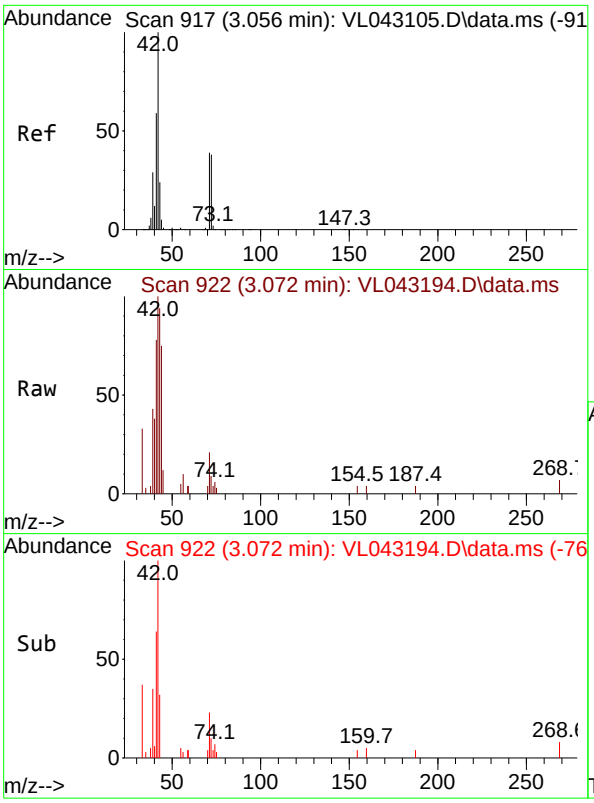


#39
1,2-Dichloropropane
Concen: 7.477 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. -0.343 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 63 Resp: 102088

Ion	Ratio	Lower	Upper
63	100		
41	0.0	58.0	87.0#
62	16.8	54.7	82.1#



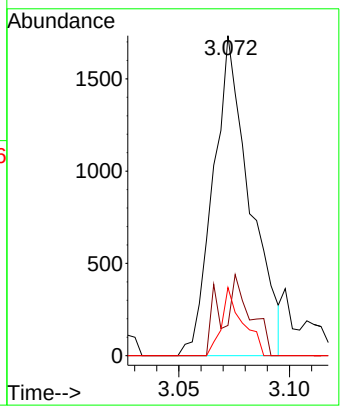


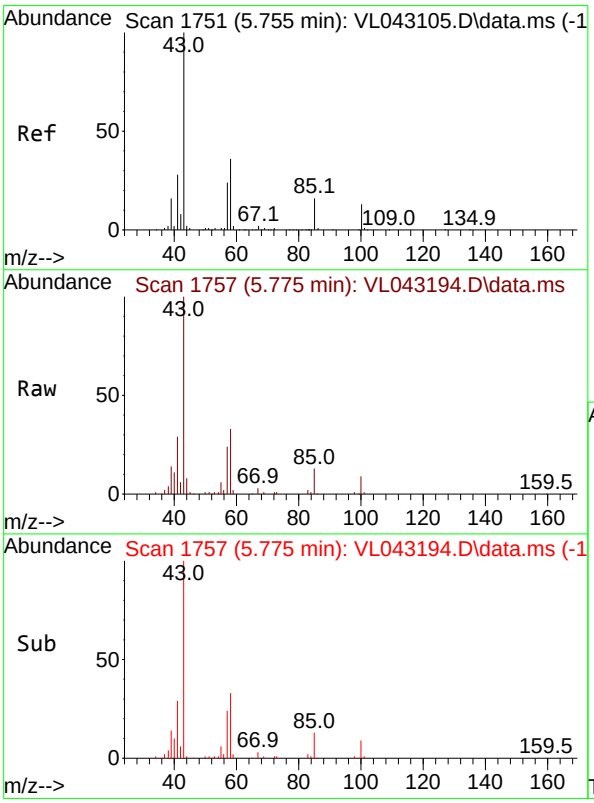
#41
Tetrahydrofuran
Concen: 0.135 ppbv
RT: 3.072 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 42 Resp: 2006

Ion	Ratio	Lower	Upper
42	100		
72	19.6	31.3	46.9#
71	12.2	30.4	45.6#

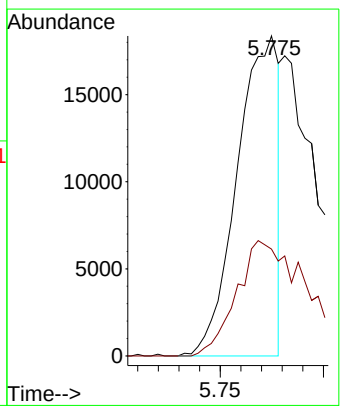


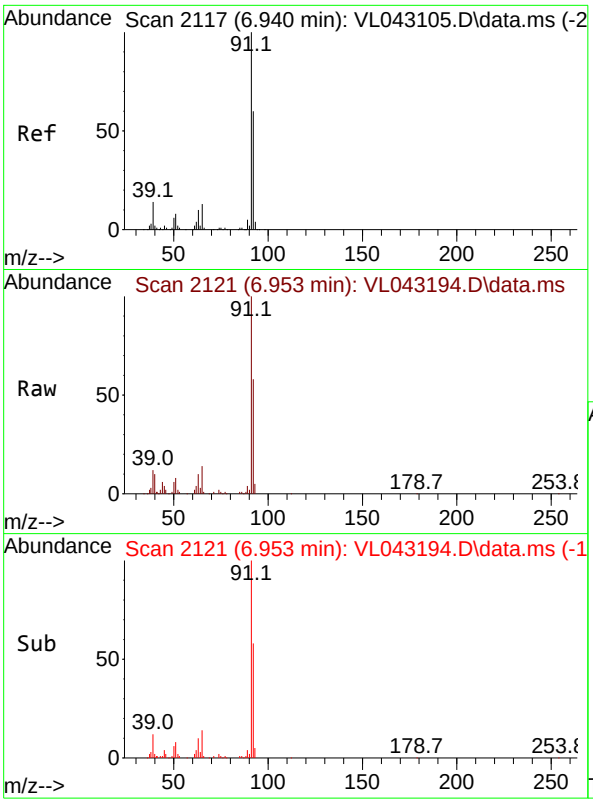


#50
4-Methyl-2-Pentanone
Concen: 0.695 ppbv
RT: 5.775 min Scan# 1757
Delta R.T. 0.020 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 43 Resp: 25552

Ion	Ratio	Lower	Upper
43	100		
58	64.2	29.1	43.7#



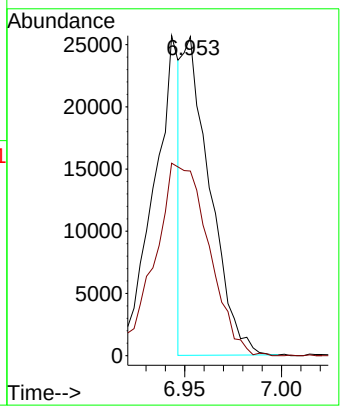


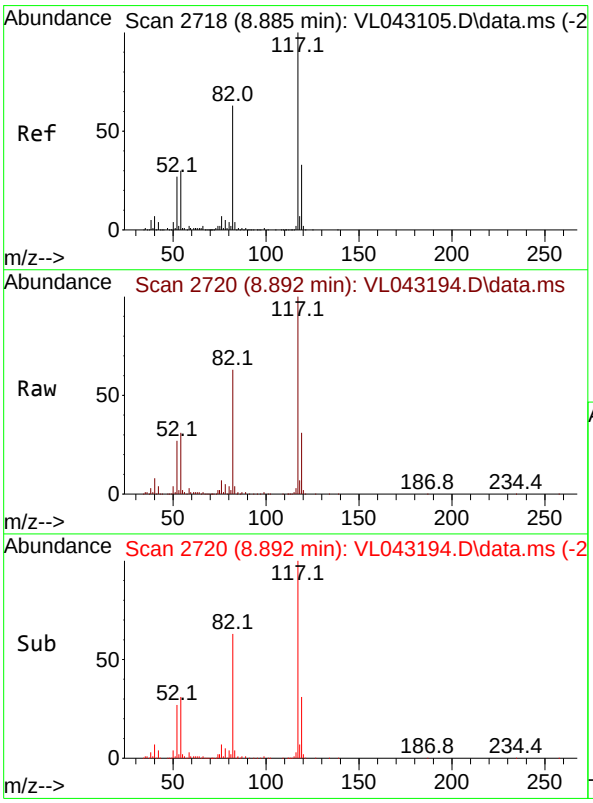
#53
Toluene
Concen: 0.575 ppbv
RT: 6.953 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 91 Resp: 25505

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.8	73.2#

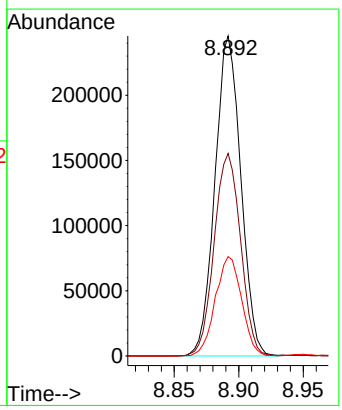


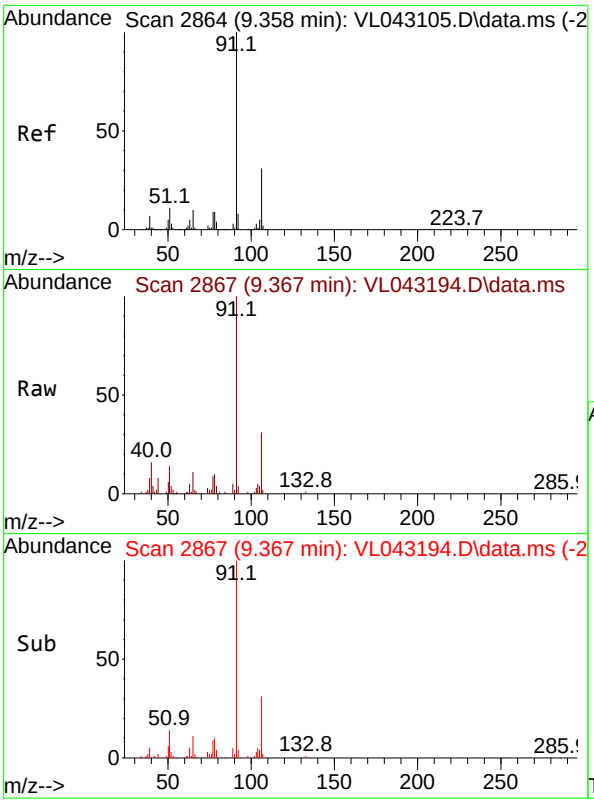


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2720
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:117 Resp: 342186

Ion	Ratio	Lower	Upper
117	100		
82	64.6	53.8	80.8
119	31.6	25.4	38.0



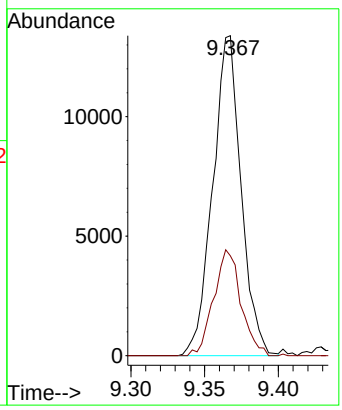


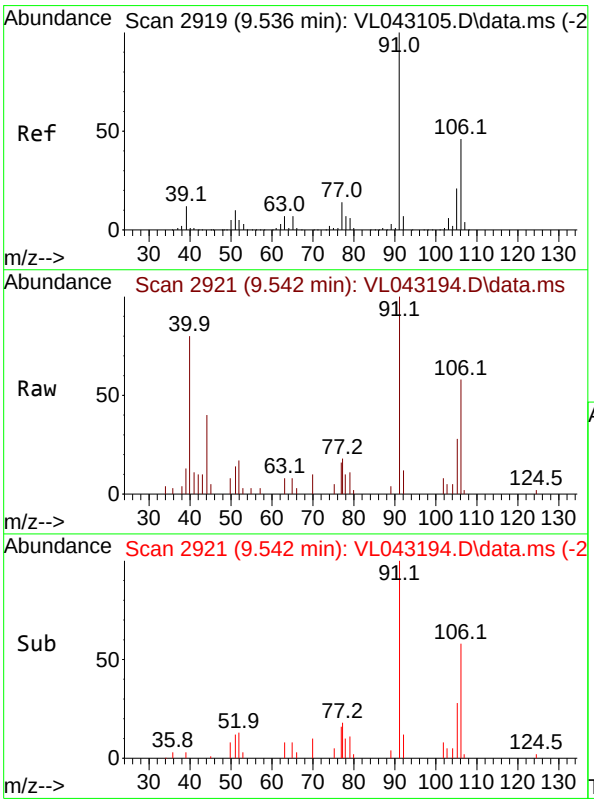
#58
Ethyl Benzene
Concen: 0.305 ppbv
RT: 9.367 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 91 Resp: 17904

Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.8	37.2

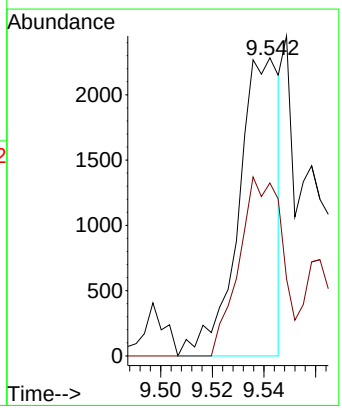


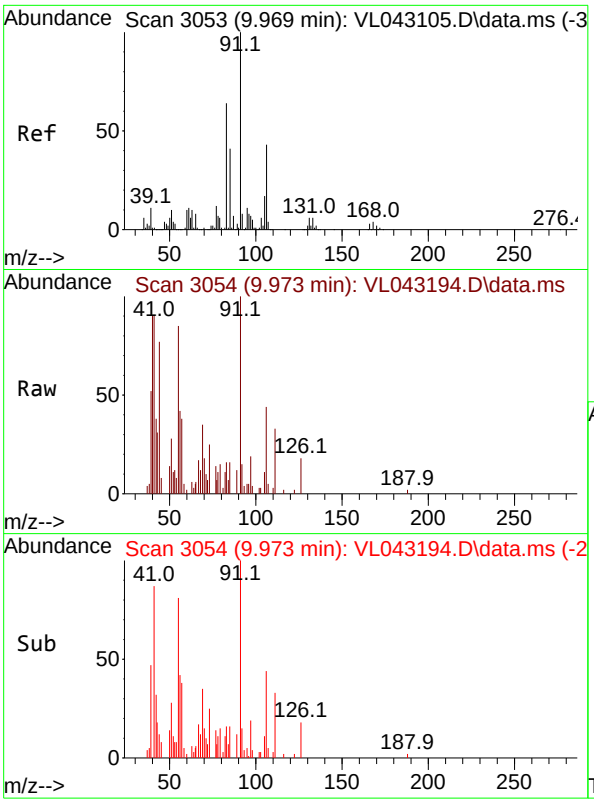


#59
m/p-Xylene
Concen: 0.054 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion: 91 Resp: 2509

Ion	Ratio	Lower	Upper
91	100		
106	87.9	38.0	57.0#



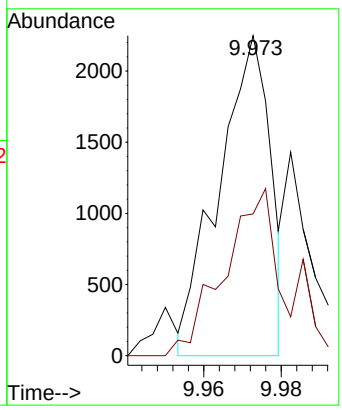


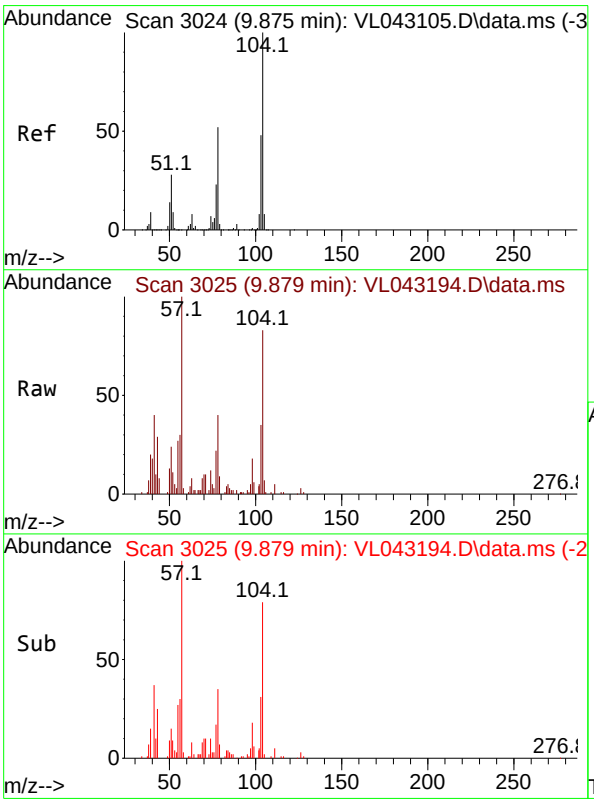
#60
o-Xylene
Concen: 0.045 ppbv
RT: 9.973 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 91 Resp: 2099

Ion	Ratio	Lower	Upper
91	100		
106	60.8	21.9	65.8

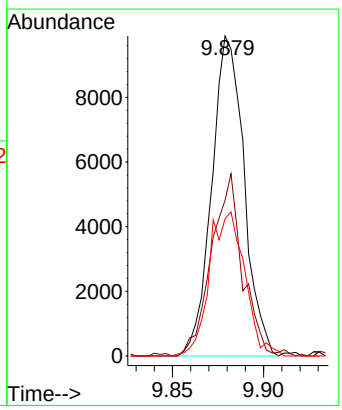


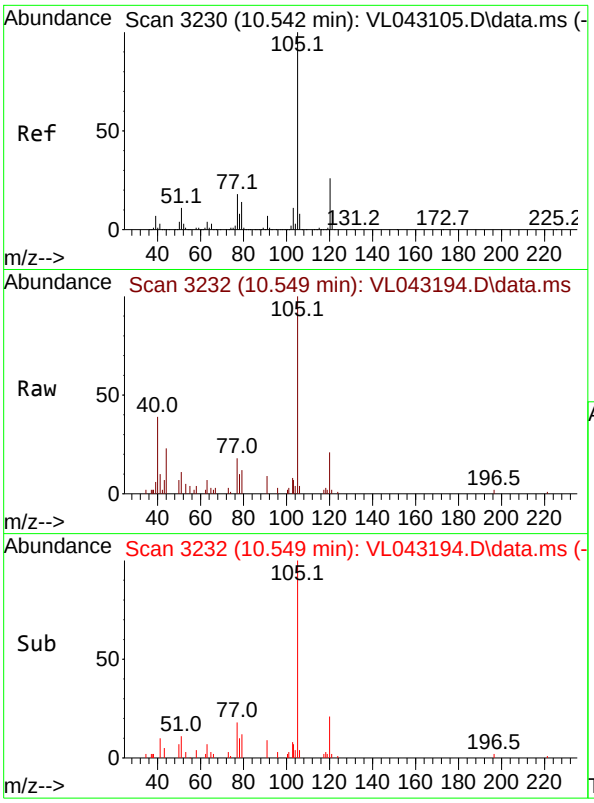


#61
Styrene
Concen: 0.585 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:104 Resp: 12213

Ion	Ratio	Lower	Upper
104	100		
78	55.4	40.2	60.2
103	49.3	36.9	55.3



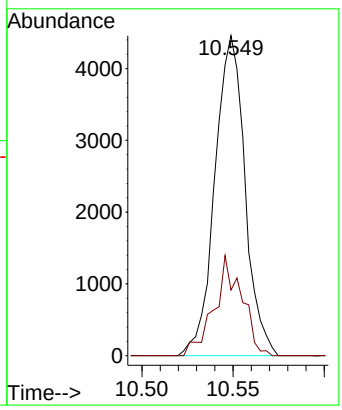


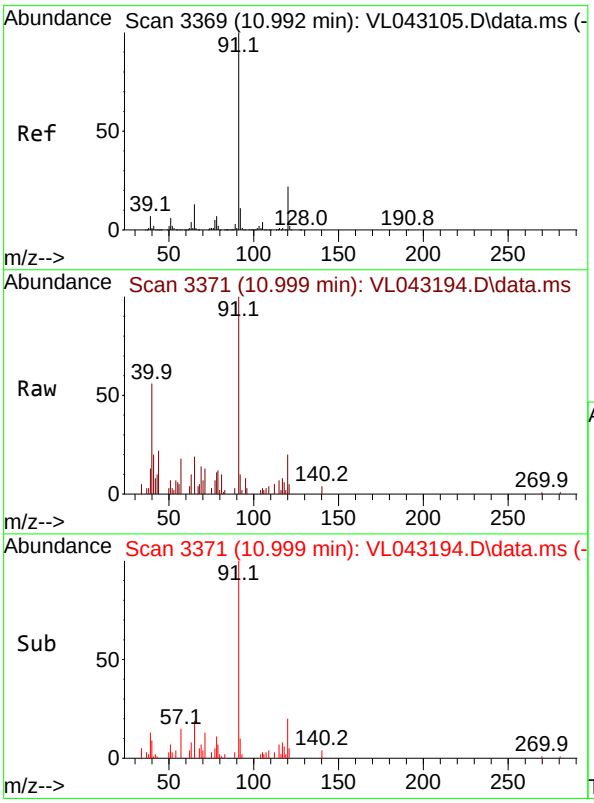
#62
Isopropylbenzene
Concen: 0.061 ppbv
RT: 10.549 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion:105 Resp: 5126

Ion	Ratio	Lower	Upper
105	100		
120	28.8	20.2	30.4

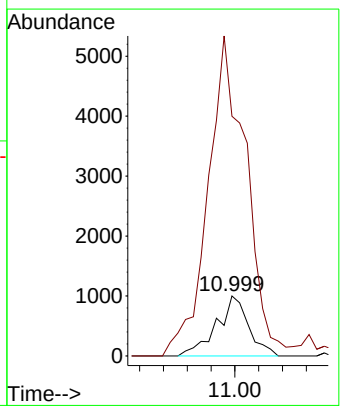


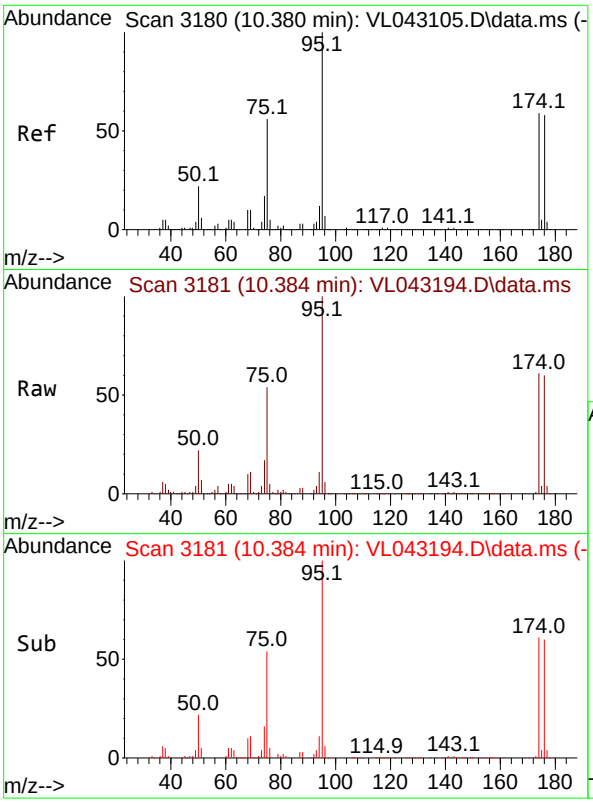


#64
n-propylbenzene
Concen: 0.042 ppbv
RT: 10.999 min Scan# 3371
Delta R.T. 0.007 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:120 Resp: 935

Ion	Ratio	Lower	Upper
120	100		
91	683.5	361.6	542.4#



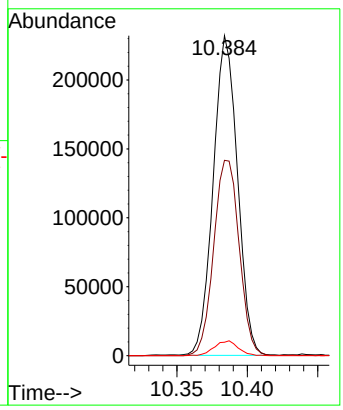


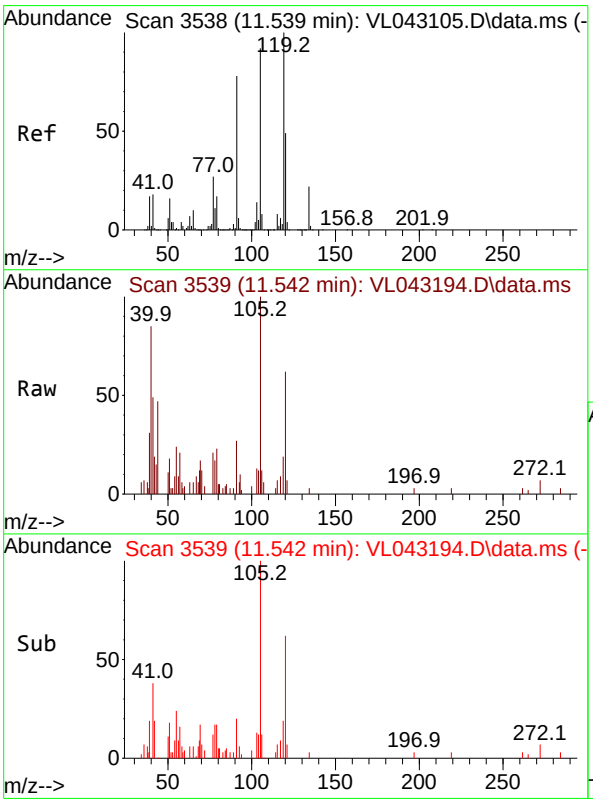
#68
1-Bromo-4-Fluorobenzene
Concen: 10.466 ppbv
RT: 10.384 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion: 95 Resp: 278374

Ion	Ratio	Lower	Upper
95	100		
174	64.4	48.3	72.5
175	4.6	3.8	5.8

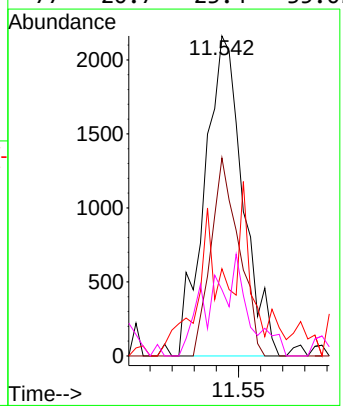


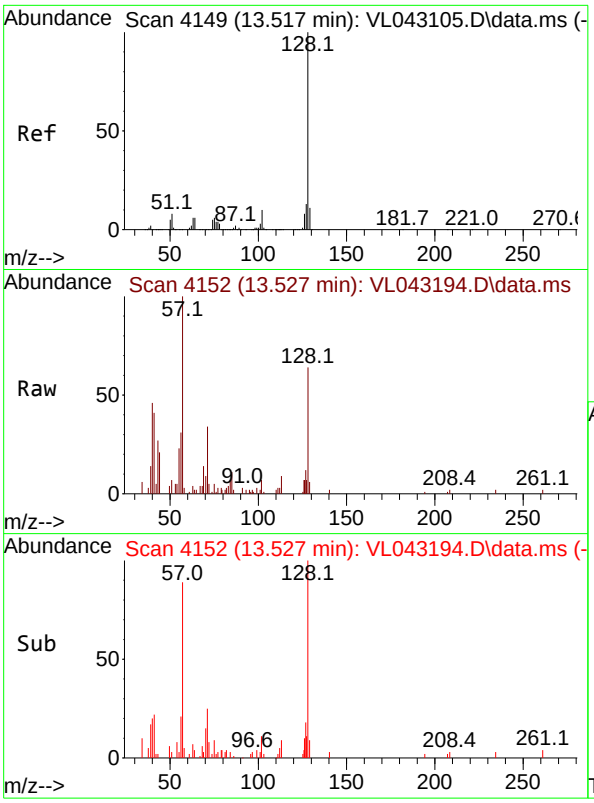


#74
1,2,4-Trimethylbenzene
Concen: 0.049 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:105 Resp: 2595

Ion	Ratio	Lower	Upper
105	100		
120	61.9	42.8	64.2
91	18.4	68.3	102.5#
77	20.7	23.4	35.0#



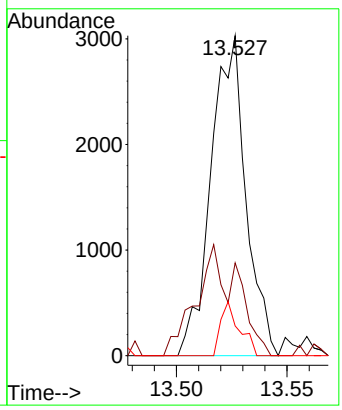


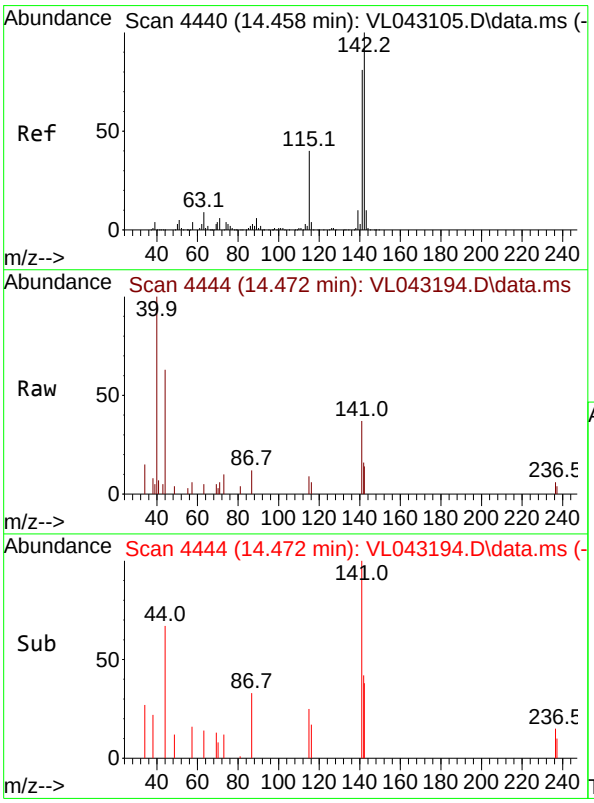
#79
Naphthalene
Concen: 0.061 ppbv
RT: 13.527 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1

Tgt Ion:128 Resp: 3328

Ion	Ratio	Lower	Upper
128	100		
127	29.0	10.5	15.7#
129	9.3	9.1	13.7

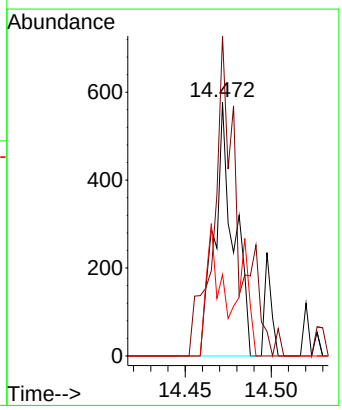




#80
Naphthalene,2-methyl-
Concen: 0.036 ppbv
RT: 14.472 min Scan# 4444
Delta R.T. 0.013 min
Lab File: VL043194.D
Acq: 13 Nov 2025 11:52

Tgt Ion:142 Resp: 510

Ion	Ratio	Lower	Upper
142	100		
141	139.4	64.6	97.0#
115	56.9	30.2	45.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043195.D
Acq On : 13 Nov 2025 12:28
Operator : SY/MD
Sample : Q3627-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Quant Time: Nov 14 04:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.794	49	145038	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.969	114	398990	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.892	117	346200	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.384	95	281256	10.452	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8884	0.431	ppbv		91
3) Chlorodifluoromethane	1.470	51	2417243	108.352	ppbv	#	58
4) Chloromethane	1.538	50	3384	0.414	ppbv		93
5) Vinyl Chloride	1.490	62	278	0.035	ppbv	#	44
6) Bromomethane	1.674	94	169	0.038	ppbv	#	30
7) Chloroethane	1.470	64	233745	71.357	ppbv		98
9) Propene	1.490	41	7501	0.758	ppbv		96
10) Heptane	4.995	43	1079	0.038	ppbv	#	22
11) Trichlorofluoromethane	1.884	101	5543	0.275	ppbv		89
12) 1,1,2-Trichlorotrifluo...	2.147	101	1385	0.085	ppbv		90
13) Ethanol	1.726	45	512270	139.967	ppbv		98
15) Acetone	1.842	43	120845	6.182	ppbv		99
16) 1,3-Butadiene	1.625	39	4162	0.447	ppbv	#	20
17) tert-Butyl alcohol	1.891	59	74337	2.770	ppbv		95
19) Isopropyl Alcohol	1.891	45	1737162	142.677	ppbv	#	37
20) Methylene Chloride	2.069	84	6233	0.807	ppbv		88
21) Allyl Chloride	1.969	41	93862	6.516	ppbv	#	56
23) Vinyl Acetate	2.464	43	12786	0.446	ppbv	#	94
25) Ethyl Acetate	2.846	43	109532	2.259	ppbv		97
26) Hexane	2.836	57	35887	1.607	ppbv	#	62
27) Carbon Disulfide	2.153	76	1018	0.050	ppbv	#	71
30) Cyclohexane	3.865	84	1038	0.053	ppbv	#	17
31) cis-1,2-Dichloroethene	2.846	61	10847	0.509	ppbv	#	24
34) 2-Butanone	2.567	43	12586	0.469	ppbv		91
35) Carbon Tetrachloride	3.775	117	2176	0.076	ppbv		84
36) Benzene	3.671	78	6968	0.185	ppbv	#	93
39) 1,2-Dichloropropane	3.969	63	101260	7.371	ppbv	#	25
41) Tetrahydrofuran	3.069	42	2127	0.142	ppbv	#	74
44) 2,2,4-Trimethylpentane	4.655	57	1967	0.031	ppbv	#	1
50) 4-Methyl-2-Pentanone	5.778	43	44901	1.213	ppbv		99
53) Toluene	6.950	91	48404	1.085	ppbv		99
58) Ethyl Benzene	9.364	91	17354	0.292	ppbv		99
59) m/p-Xylene	9.542	91	3279	0.069	ppbv	#	84
60) o-Xylene	9.969	91	2800	0.060	ppbv		94
61) Styrene	9.879	104	12035	0.570	ppbv		94
62) Isopropylbenzene	10.549	105	4896	0.058	ppbv		96
64) n-propylbenzene	10.999	120	928	0.041	ppbv		67
74) 1,2,4-Trimethylbenzene	11.543	105	2371	0.045	ppbv	#	57

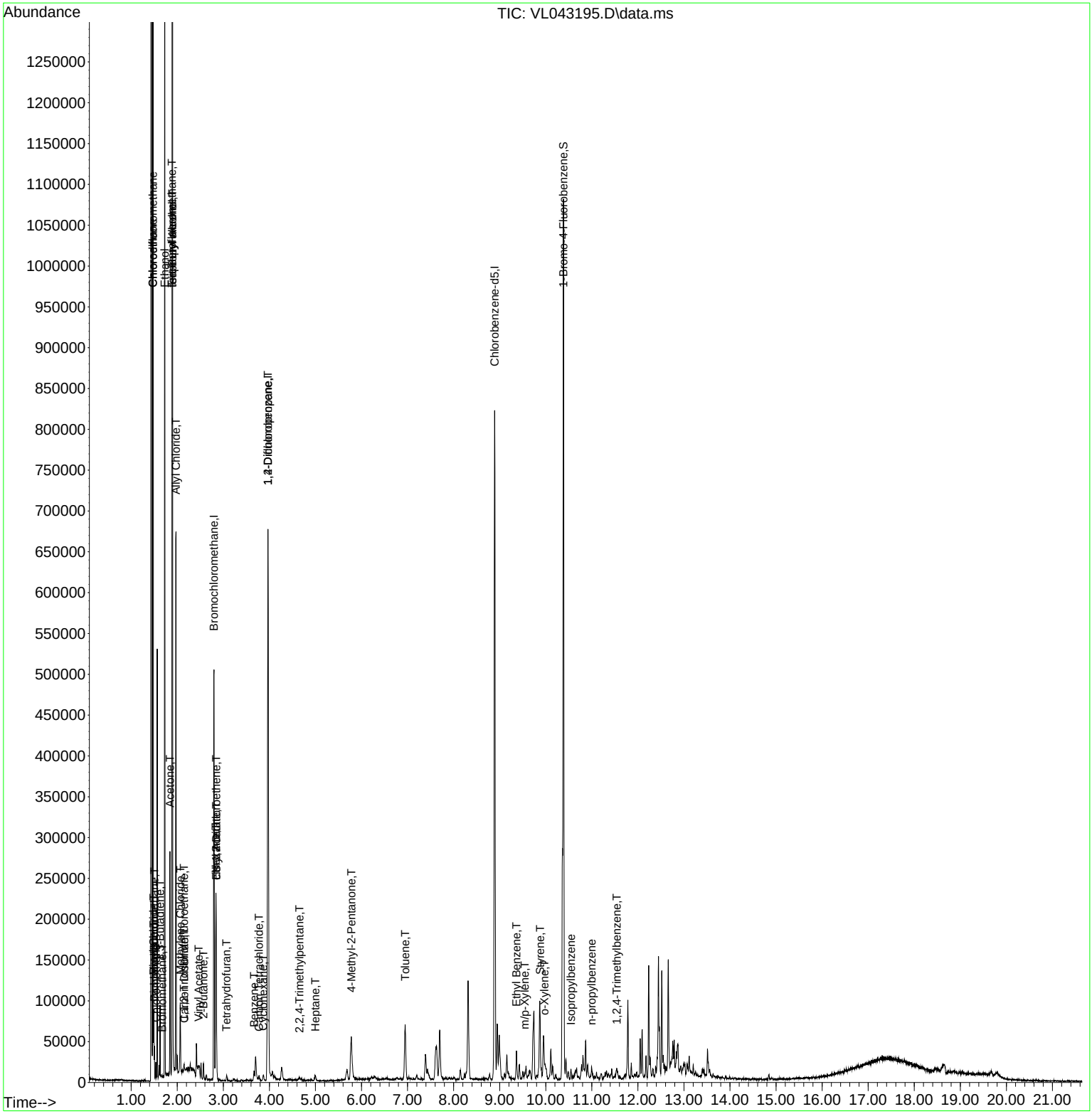
(#) = qualifier out of range (m) = manual integration (+) = signals summed

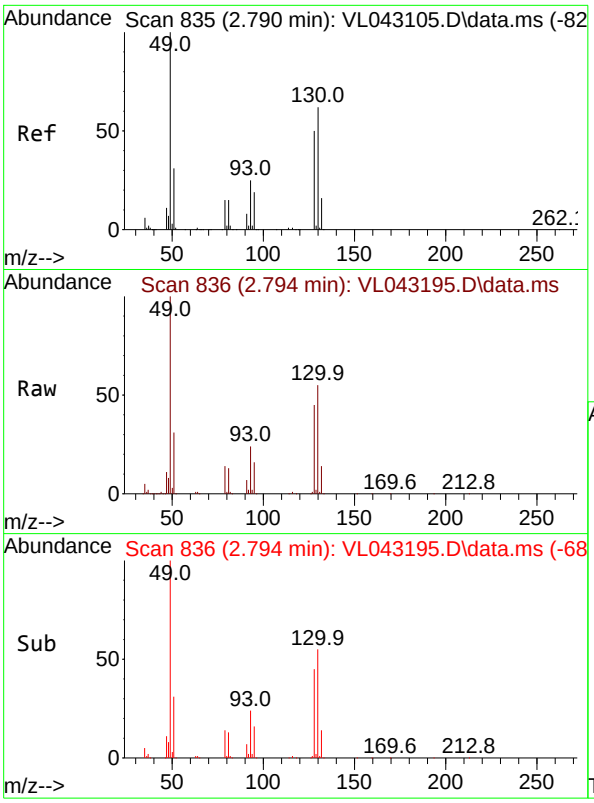
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043195.D
Acq On : 13 Nov 2025 12:28
Operator : SY/MD
Sample : Q3627-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Quant Time: Nov 14 04:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



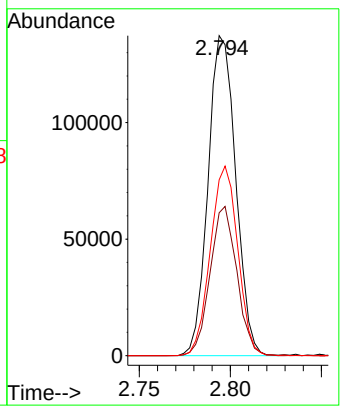


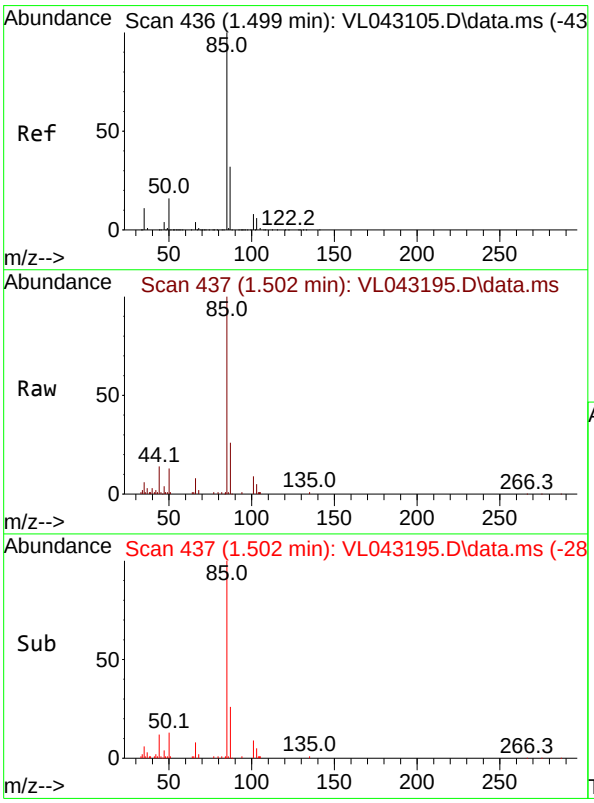
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 49 Resp: 145038

Ion	Ratio	Lower	Upper
49	100		
128	45.2	24.4	73.4
130	58.8	31.0	93.0

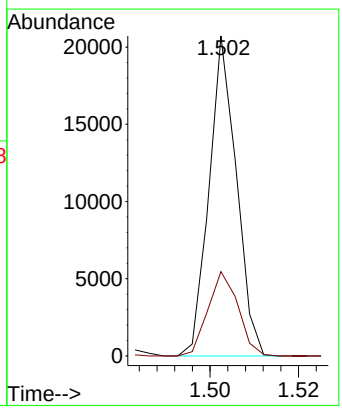


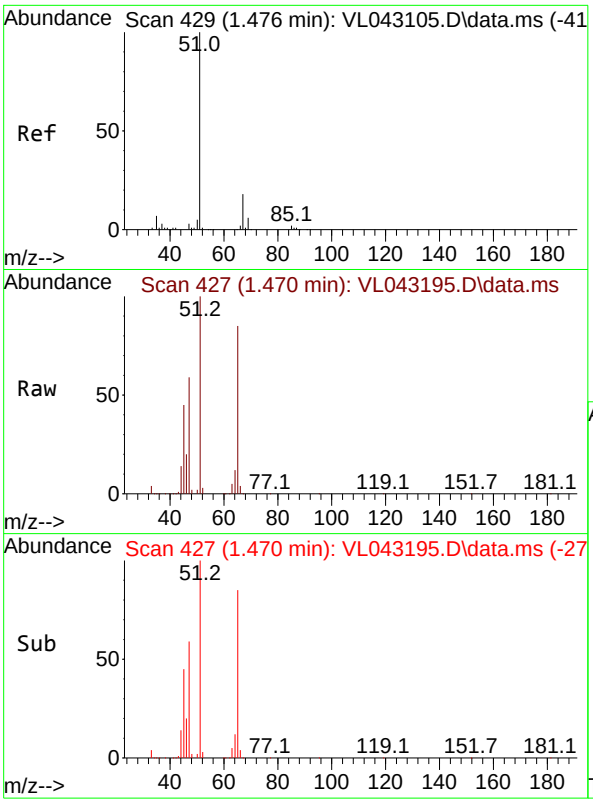


#2
Dichlorodifluoromethane
Concen: 0.431 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 85 Resp: 8884

Ion	Ratio	Lower	Upper
85	100		
87	26.4	25.3	37.9



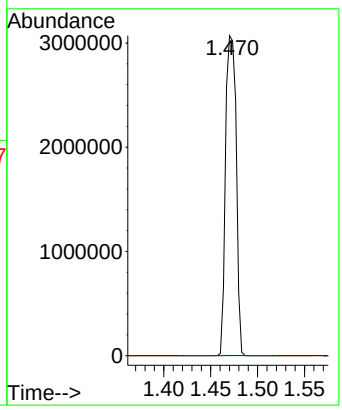


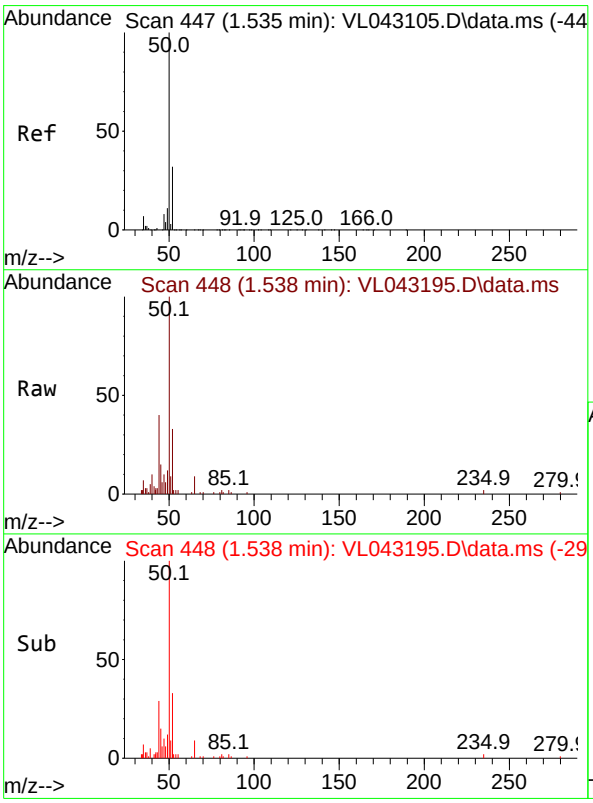
#3
Chlorodifluoromethane
Concen: 108.352 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 51 Resp: 2417243

Ion	Ratio	Lower	Upper
51	100		
67	0.1	15.1	22.7#

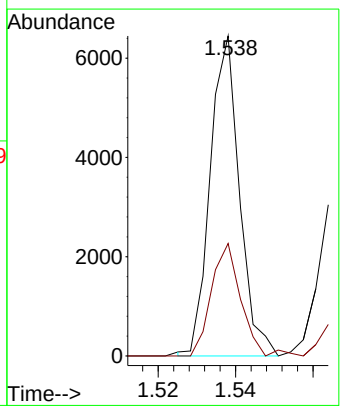


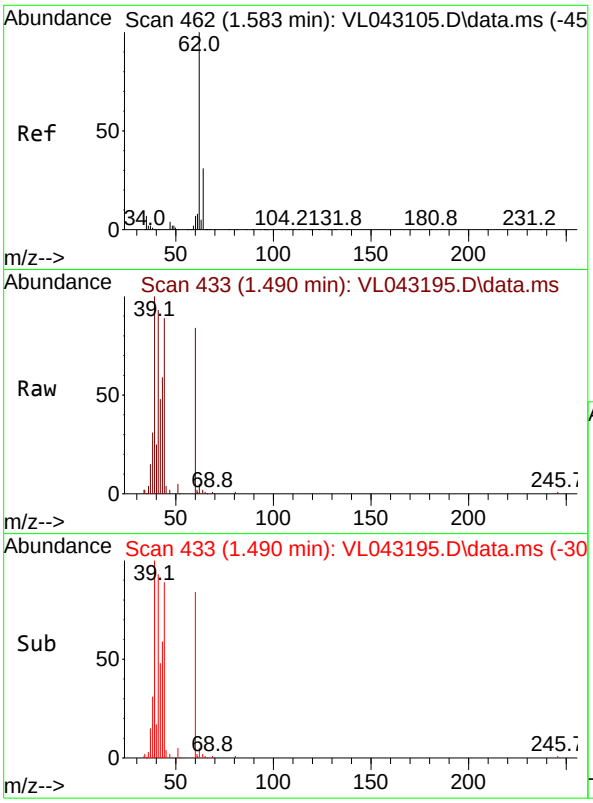


#4
Chloromethane
Concen: 0.414 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 50 Resp: 3384

Ion	Ratio	Lower	Upper
50	100		
52	35.2	25.2	37.8



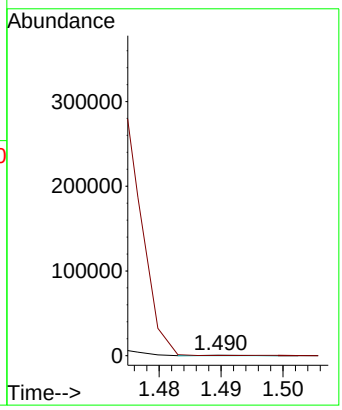


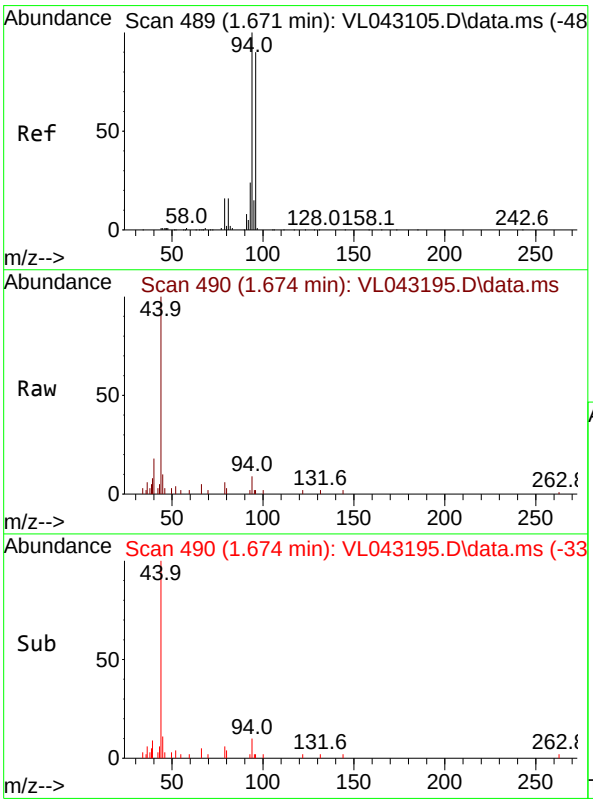
#5
Vinyl Chloride
Concen: 0.035 ppbv
RT: 1.490 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 62 Resp: 278

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.6	36.8#

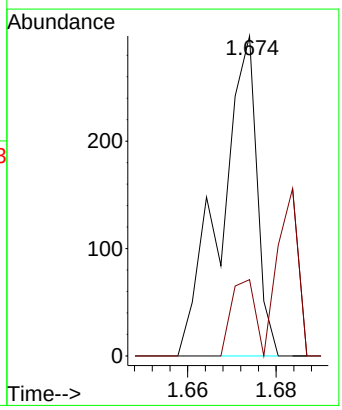


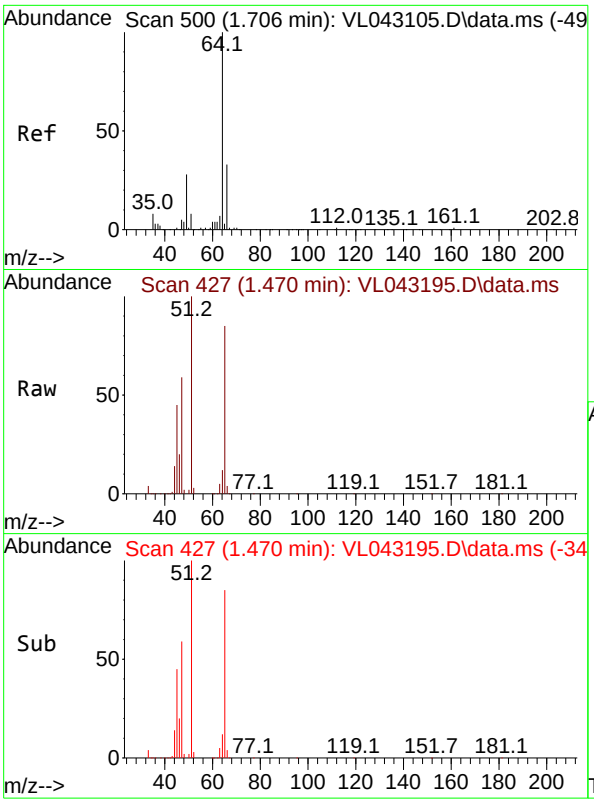


#6
Bromomethane
Concen: 0.038 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 94 Resp: 169

Ion	Ratio	Lower	Upper
94	100		
96	23.8	72.2	108.4#



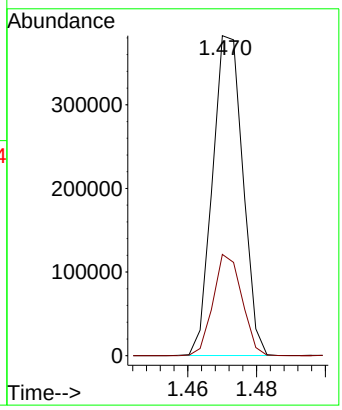


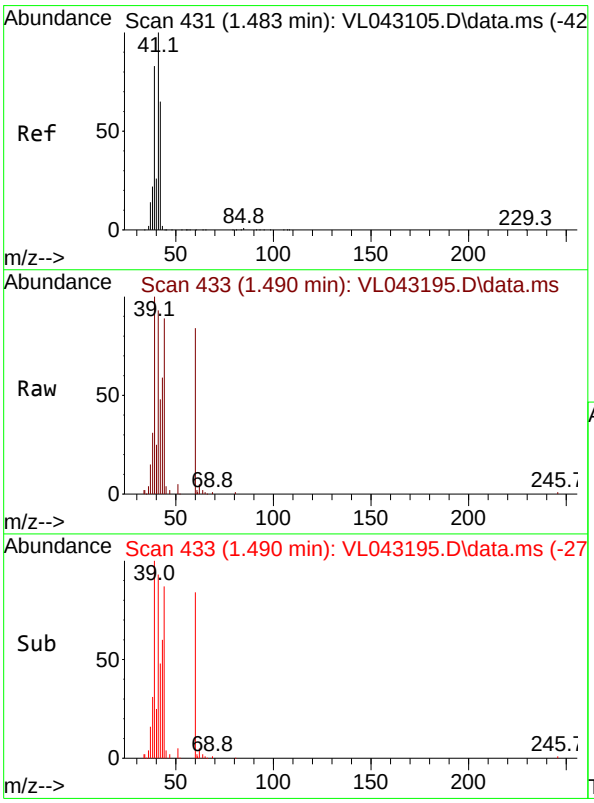
#7
Chloroethane
Concen: 71.357 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.236 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 64 Resp: 233745

Ion	Ratio	Lower	Upper
64	100		
66	31.7	26.0	39.0

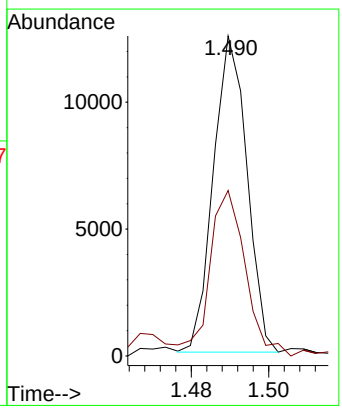


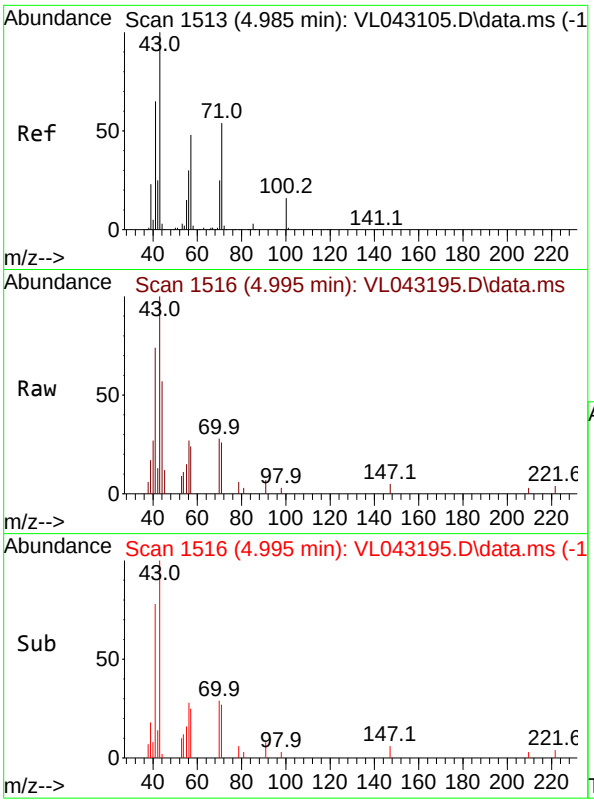


#9
Propene
Concen: 0.758 ppbv
RT: 1.490 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 41 Resp: 7501

Ion	Ratio	Lower	Upper
41	100		
42	65.4	55.1	82.7



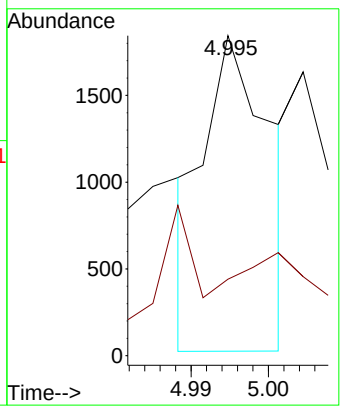


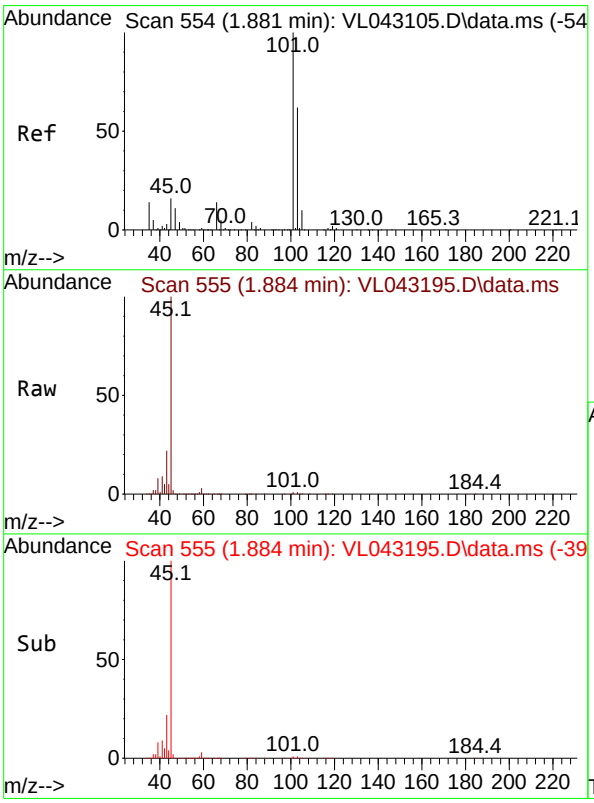
#10
Heptane
Concen: 0.038 ppbv
RT: 4.995 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 43 Resp: 1079

Ion	Ratio	Lower	Upper
43	100		
57	105.4	40.8	61.2#

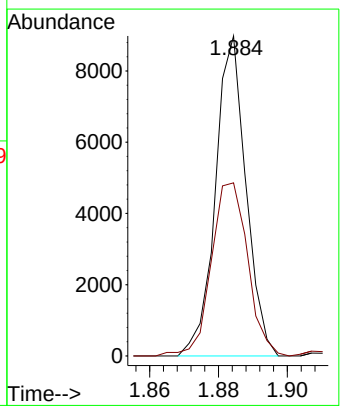


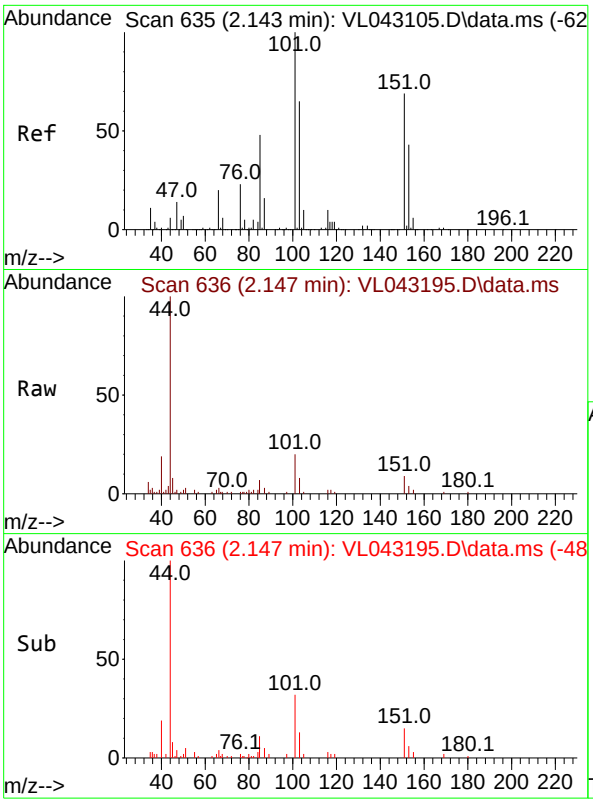


#11
Trichlorofluoromethane
Concen: 0.275 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion:101 Resp: 5543

Ion	Ratio	Lower	Upper
101	100		
103	53.2	49.3	73.9



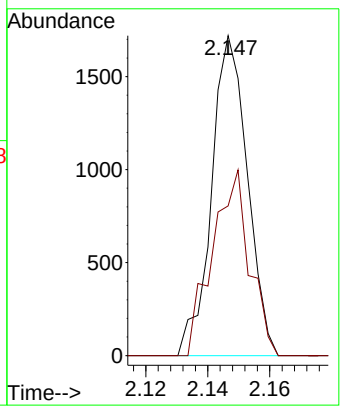


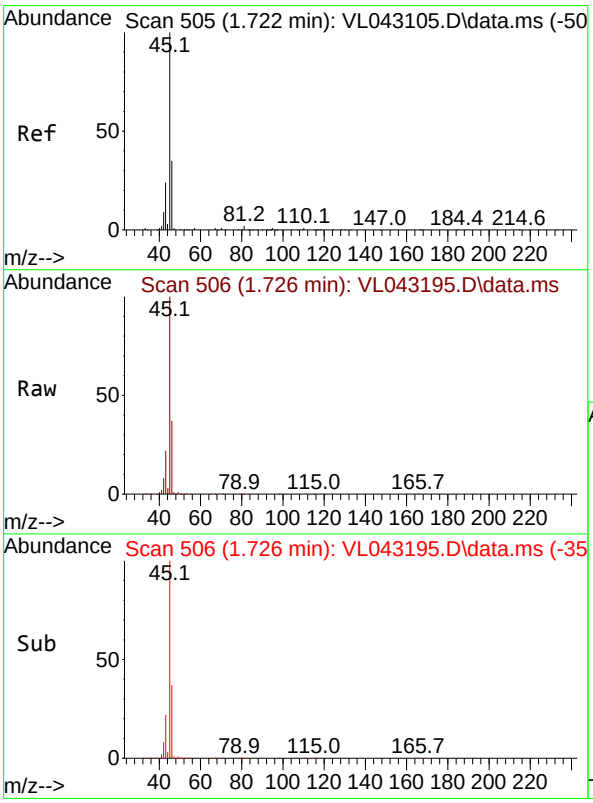
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.085 ppbv
RT: 2.147 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion:101 Resp: 1385

Ion	Ratio	Lower	Upper
101	100		
151	60.1	54.7	82.1

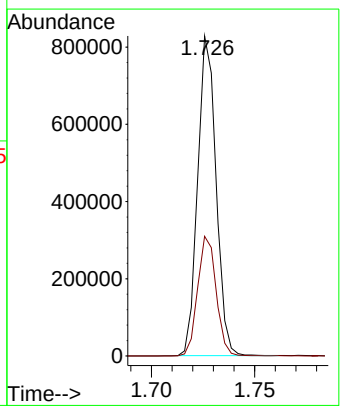


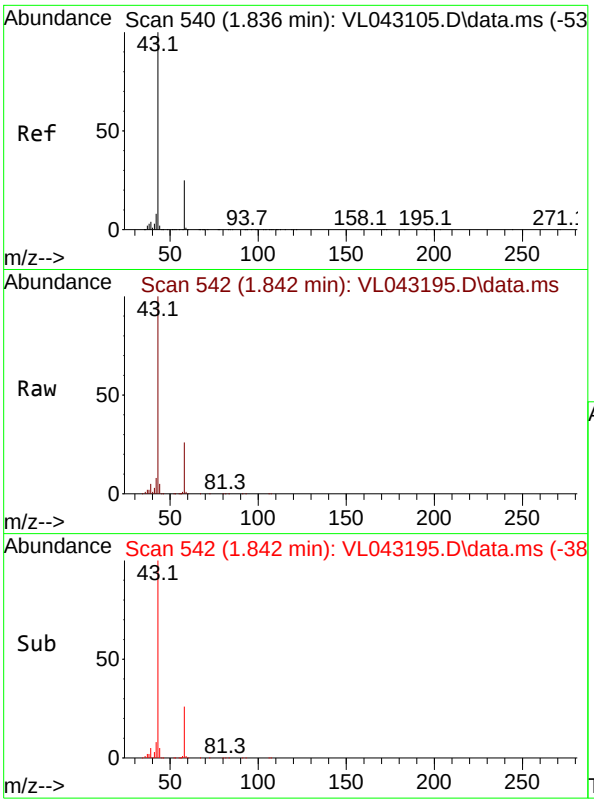


#13
Ethanol
Concen: 139.967 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 45 Resp: 512270

Ion	Ratio	Lower	Upper
45	100		
46	37.9	14.7	58.9



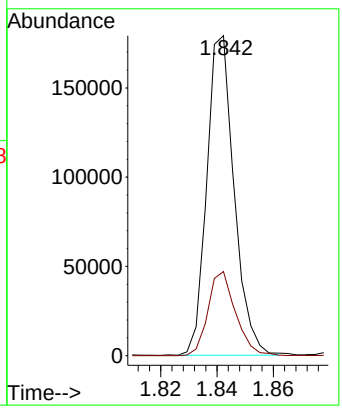


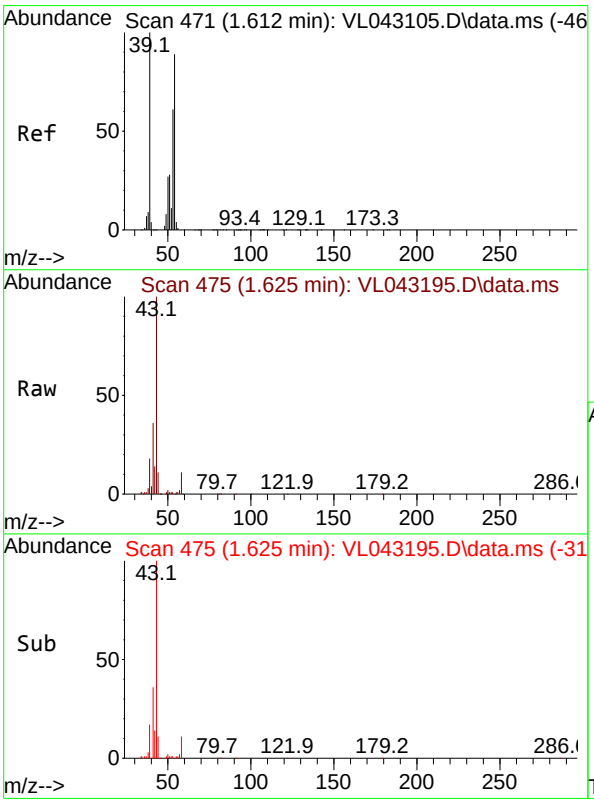
#15
Acetone
Concen: 6.182 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 43 Resp: 120845

Ion	Ratio	Lower	Upper
43	100		
58	26.5	20.8	31.2

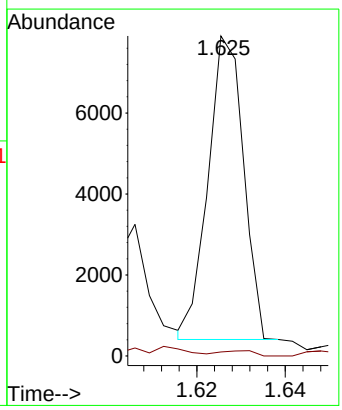


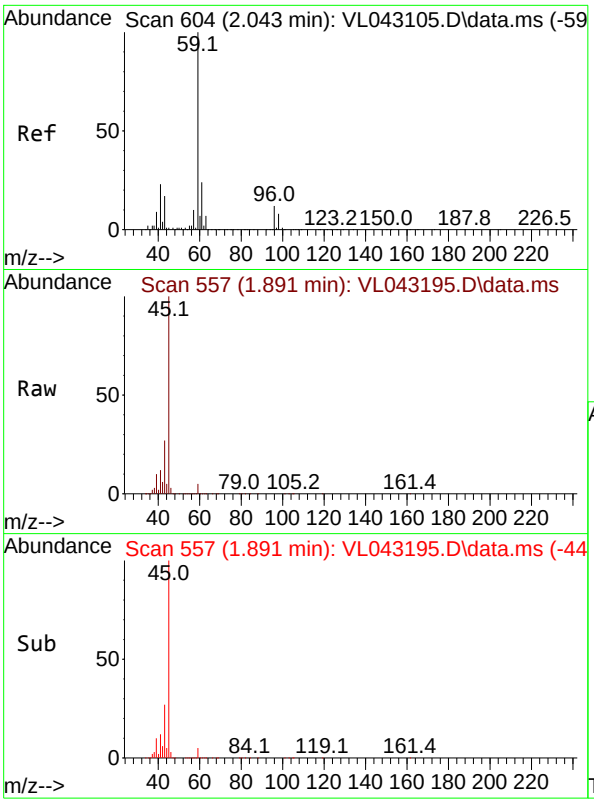


#16
1,3-Butadiene
Concen: 0.447 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.013 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 39 Resp: 4162

Ion	Ratio	Lower	Upper
39	100		
54	6.3	59.0	88.4#



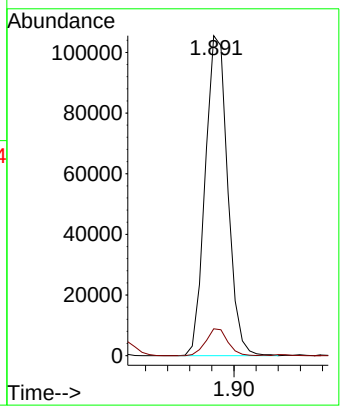


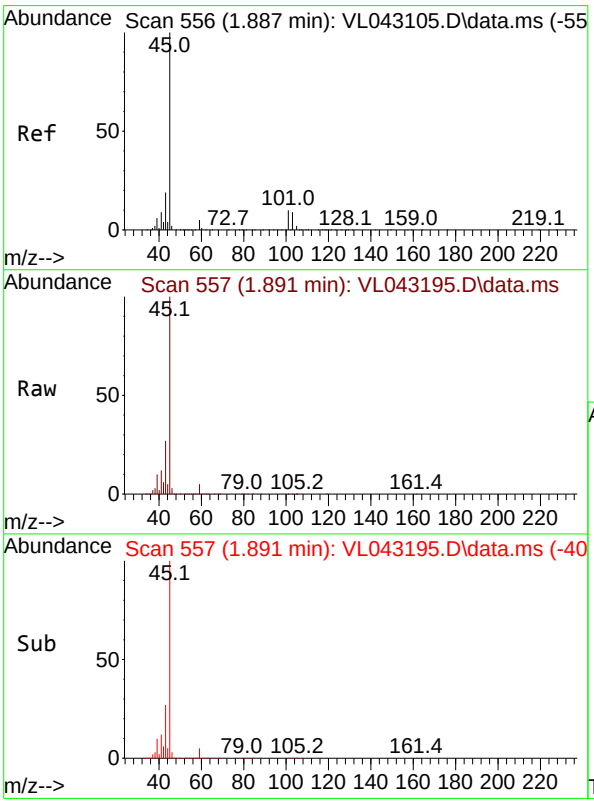
#17
tert-Butyl alcohol
Concen: 2.770 ppbv
RT: 1.891 min Scan# 5
Delta R.T. -0.152 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 59 Resp: 74337

Ion	Ratio	Lower	Upper
59	100		
57	8.5	8.2	12.4

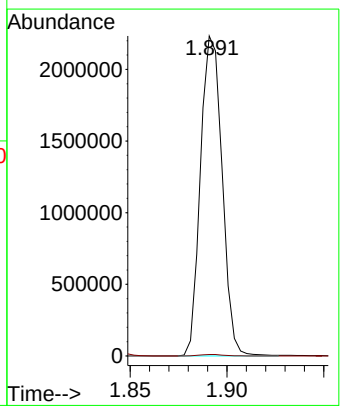


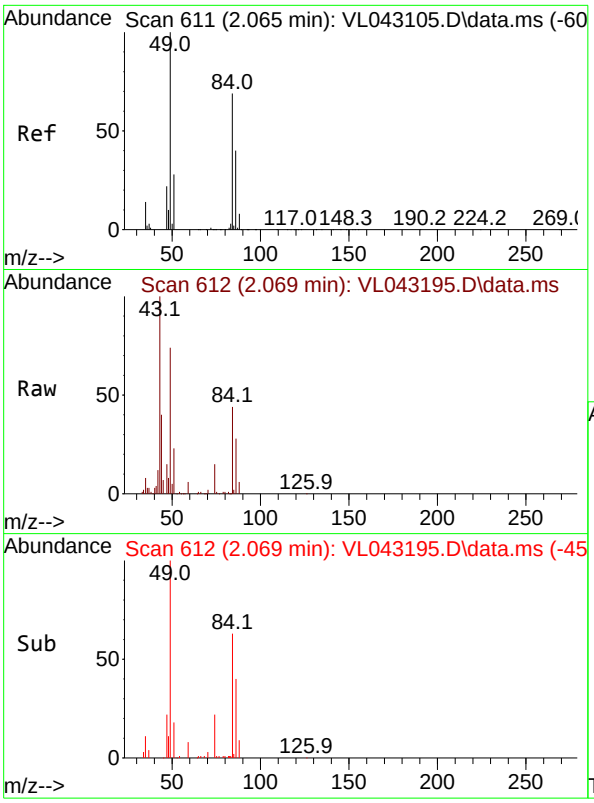


#19
Isopropyl Alcohol
Concen: 142.677 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 45 Resp: 1737162

Ion	Ratio	Lower	Upper
45	100		
58	0.5	31.3	46.9#



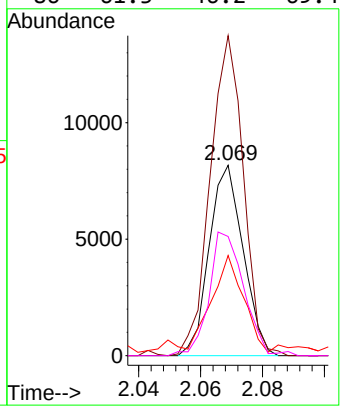


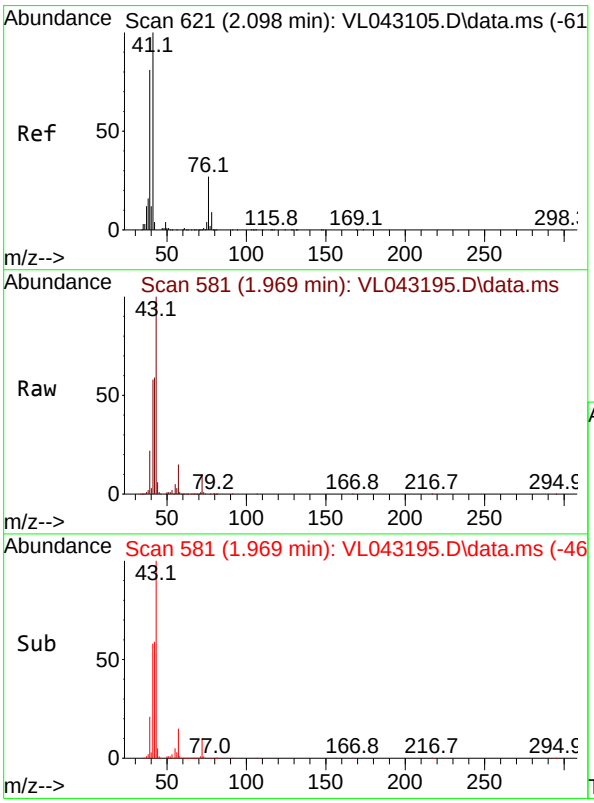
#20
Methylene Chloride
Concen: 0.807 ppbv
RT: 2.069 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 84 Resp: 6233

Ion	Ratio	Lower	Upper
84	100		
49	167.1	116.6	175.0
51	47.9	34.8	52.2
86	61.3	46.2	69.4

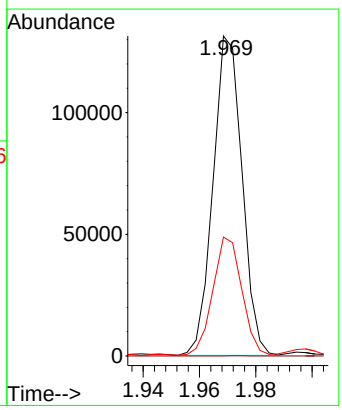


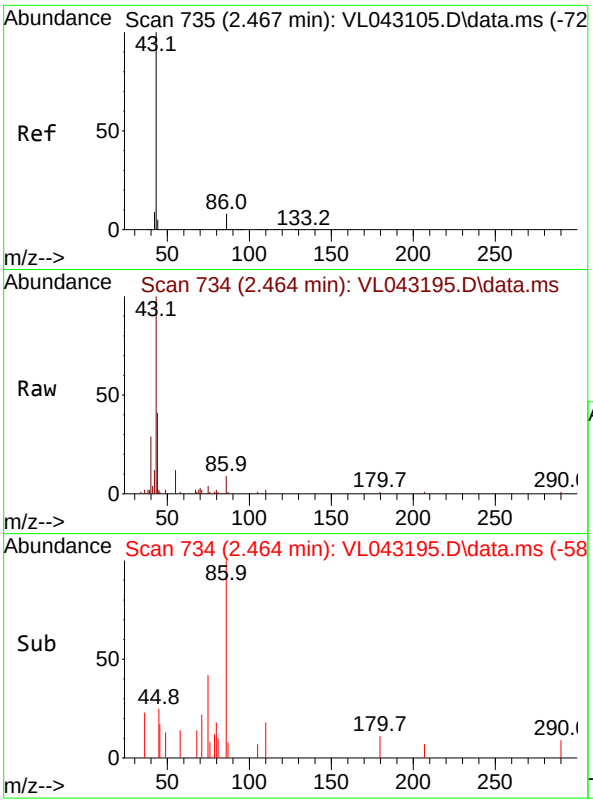


#21
Allyl Chloride
Concen: 6.516 ppbv
RT: 1.969 min Scan# 581
Delta R.T. -0.129 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 41 Resp: 93862

Ion	Ratio	Lower	Upper
41	100		
76	1.1	21.5	32.3#
39	39.7	60.8	91.2#



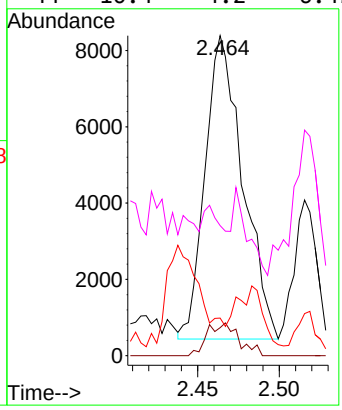


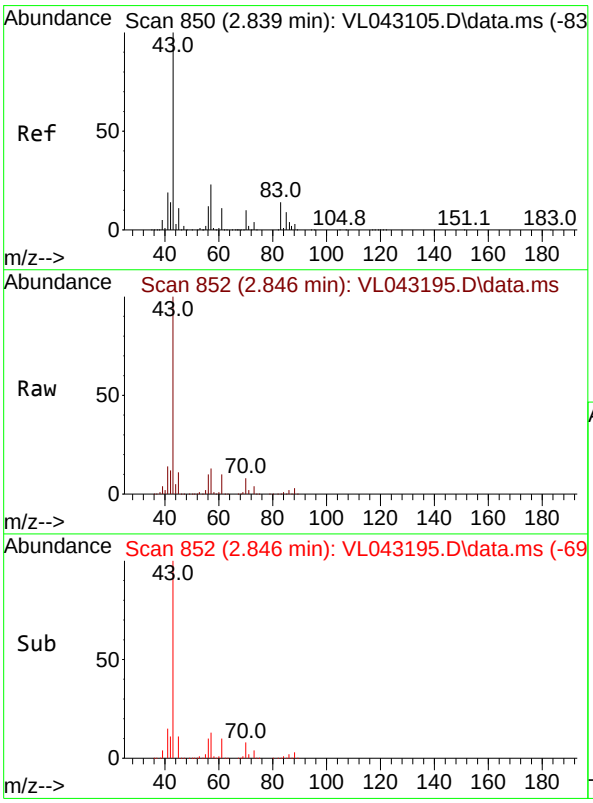
#23
Vinyl Acetate
Concen: 0.446 ppbv
RT: 2.464 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 43 Resp: 12786

Ion	Ratio	Lower	Upper
43	100		
86	9.2	6.2	9.2
42	8.8	7.6	11.4
44	10.4	4.2	6.4#

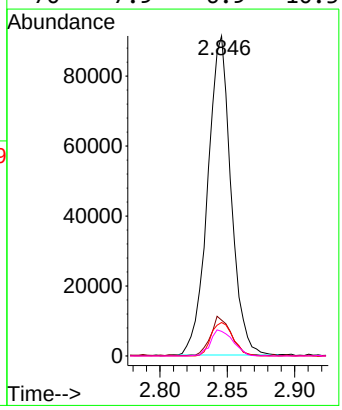


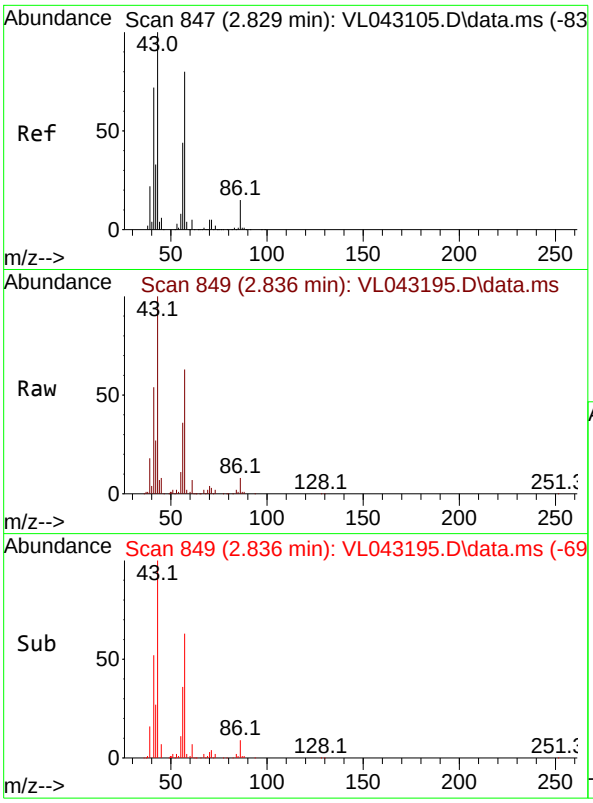


#25
Ethyl Acetate
Concen: 2.259 ppbv
RT: 2.846 min Scan# 852
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 43 Resp: 109532

Ion	Ratio	Lower	Upper
43	100		
45	10.8	7.8	11.8
61	9.9	7.0	10.6
70	7.9	6.9	10.3



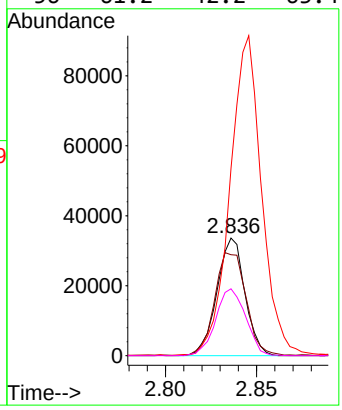


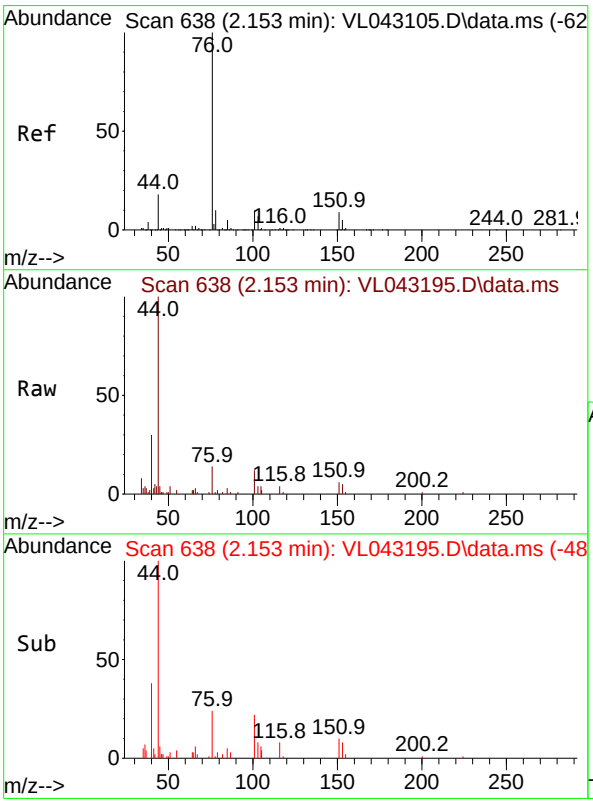
#26
Hexane
Concen: 1.607 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 57 Resp: 35887

Ion	Ratio	Lower	Upper
57	100		
41	97.1	71.4	107.0
43	312.9	178.5	267.7#
56	61.2	42.2	63.4

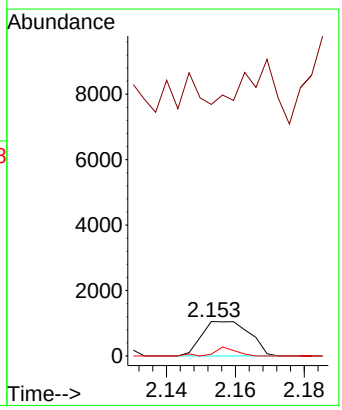


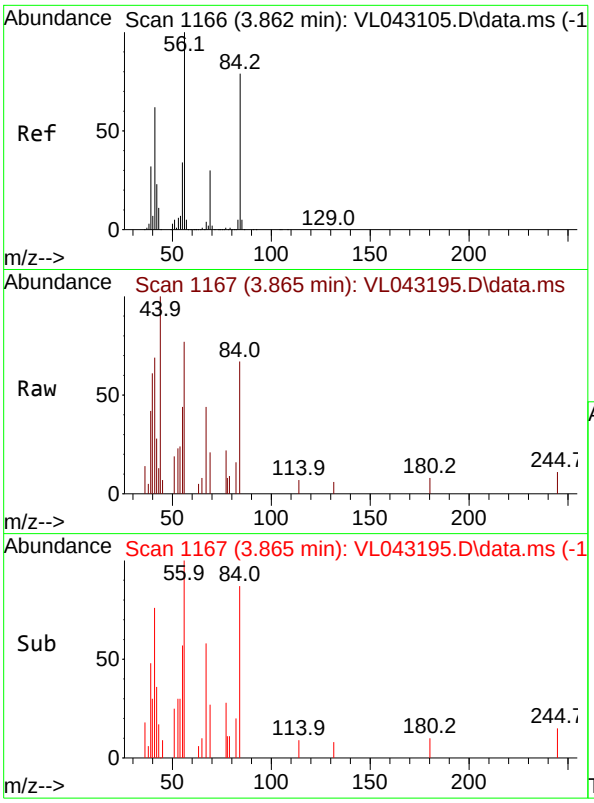


#27
Carbon Disulfide
Concen: 0.050 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 76 Resp: 1018

Ion	Ratio	Lower	Upper
76	100		
44	0.0	16.7	25.1#
78	11.8	9.3	13.9



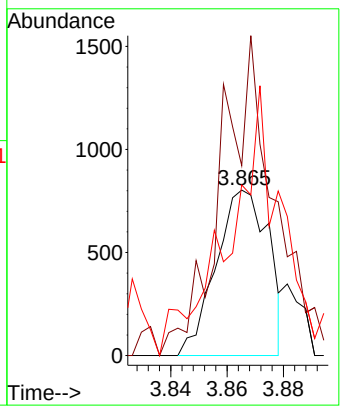


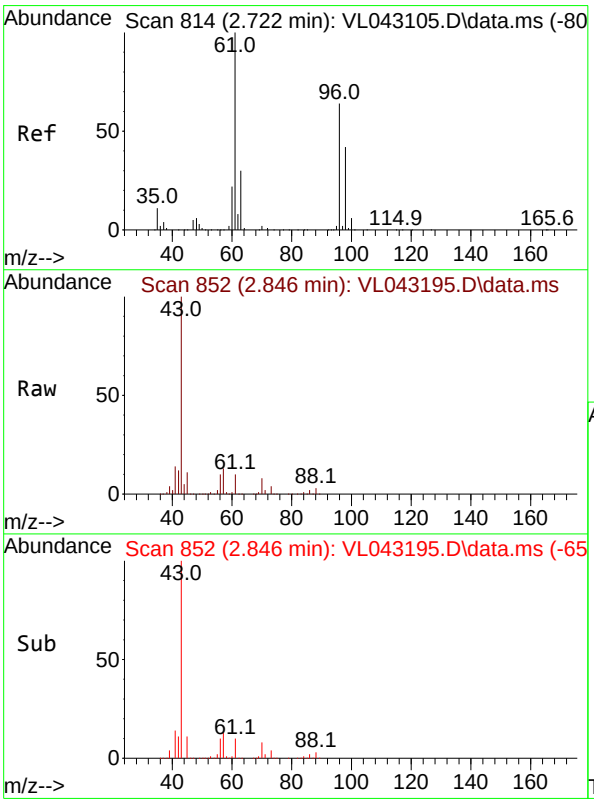
#30
Cyclohexane
Concen: 0.053 ppbv
RT: 3.865 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 84 Resp: 1038

Ion	Ratio	Lower	Upper
84	100		
56	210.3	100.9	151.3#
41	165.8	63.8	95.6#

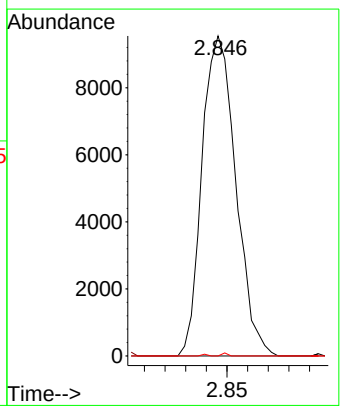


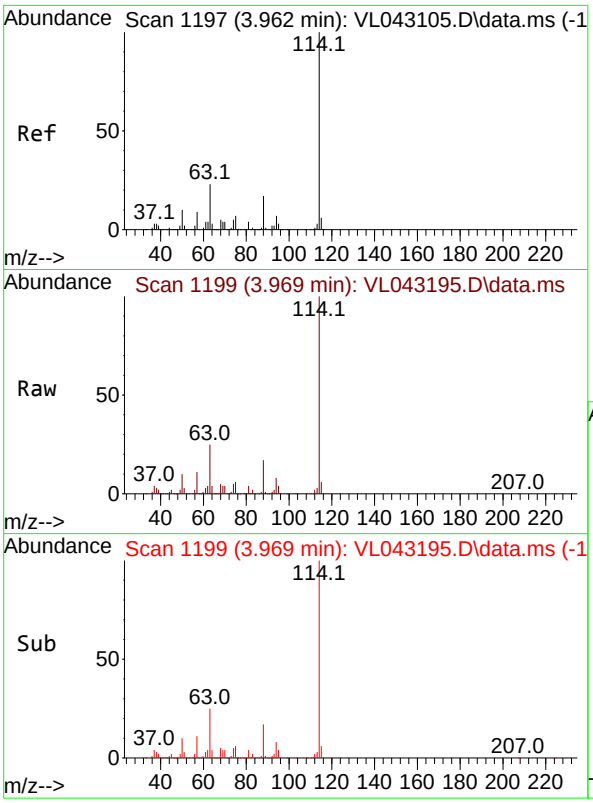


#31
cis-1,2-Dichloroethene
Concen: 0.509 ppbv
RT: 2.846 min Scan# 852
Delta R.T. 0.123 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 61 Resp: 10847

Ion	Ratio	Lower	Upper
61	100		
96	0.0	51.0	76.6#
98	0.0	33.5	50.3#



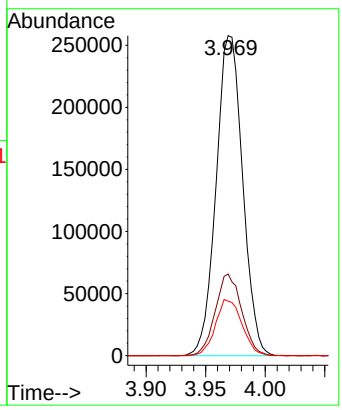


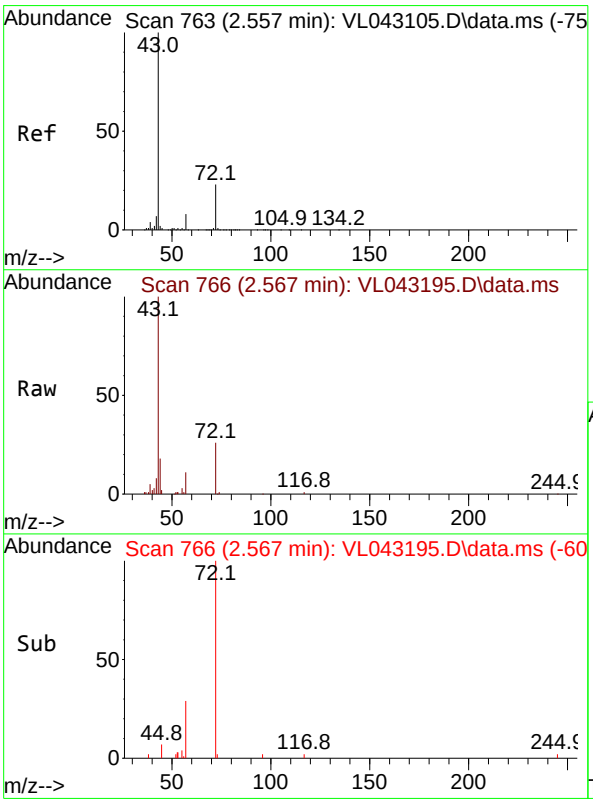
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.969 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion:114 Resp: 398990

Ion	Ratio	Lower	Upper
114	100		
63	25.4	19.3	28.9
88	17.5	13.9	20.9

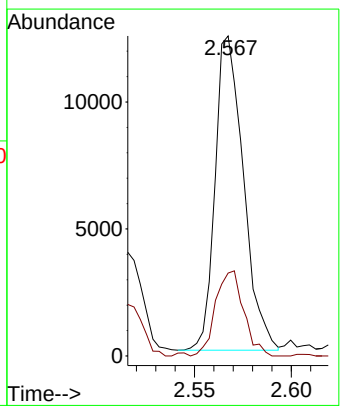


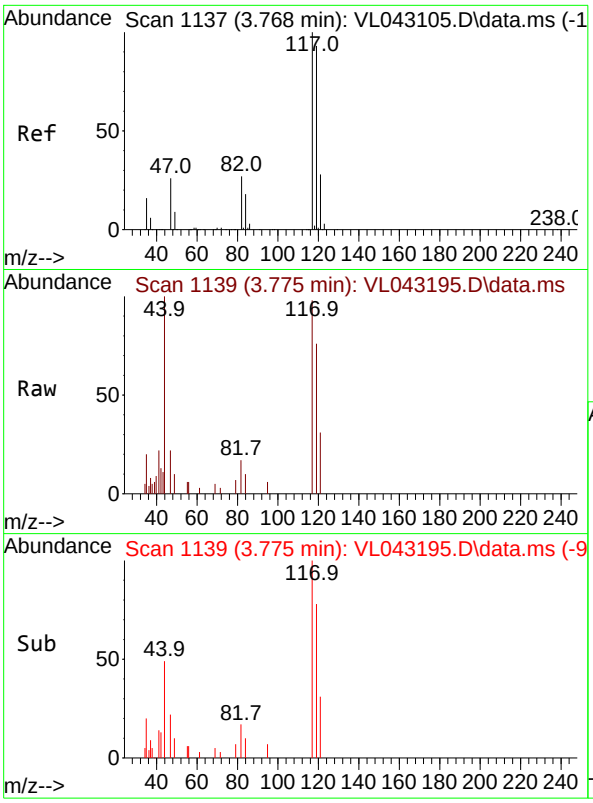


#34
2-Butanone
Concen: 0.469 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 43 Resp: 12586

Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.4	27.6



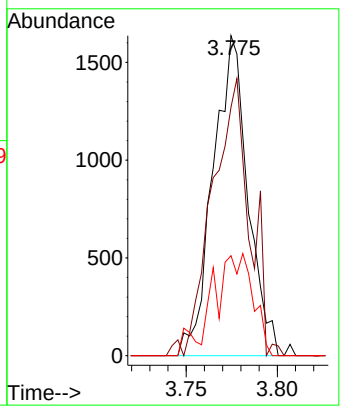


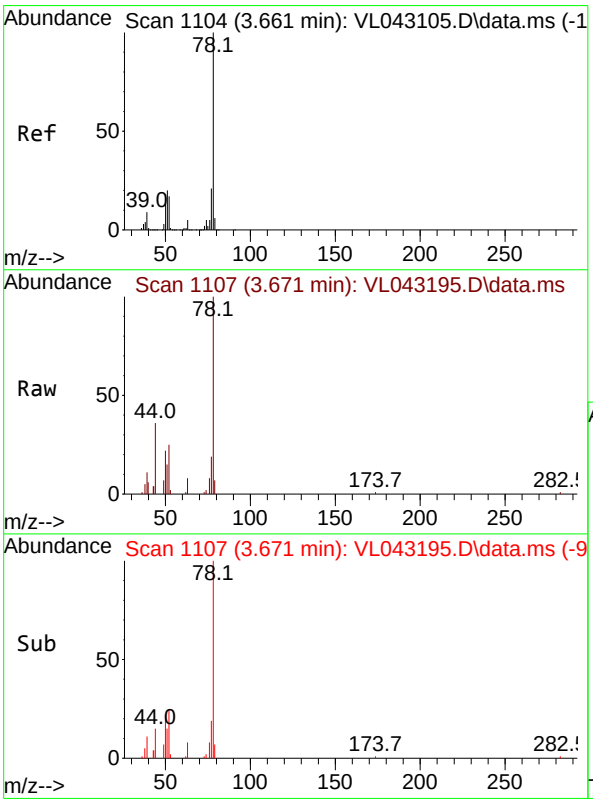
#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 3.775 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion:117 Resp: 2176

Ion	Ratio	Lower	Upper
117	100		
119	74.6	74.1	111.1
121	31.3	22.2	33.2

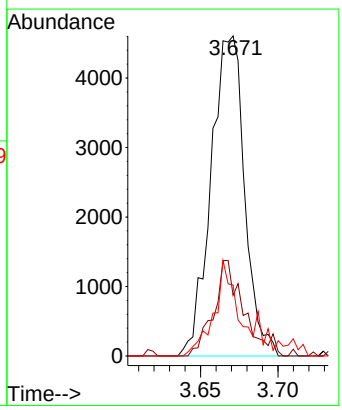


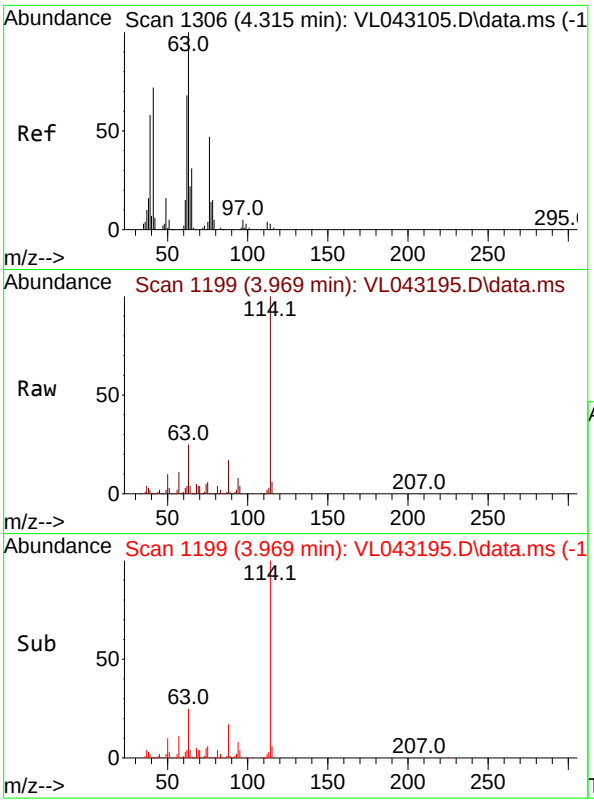


#36
Benzene
Concen: 0.185 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 78 Resp: 6968

Ion	Ratio	Lower	Upper
78	100		
77	18.9	17.0	25.6
50	22.1	14.6	22.0#



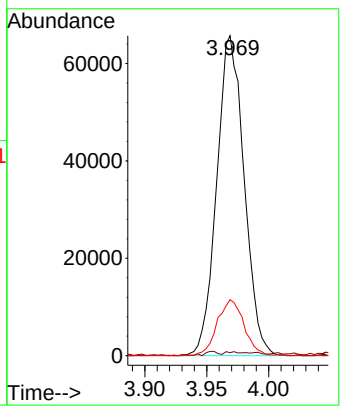


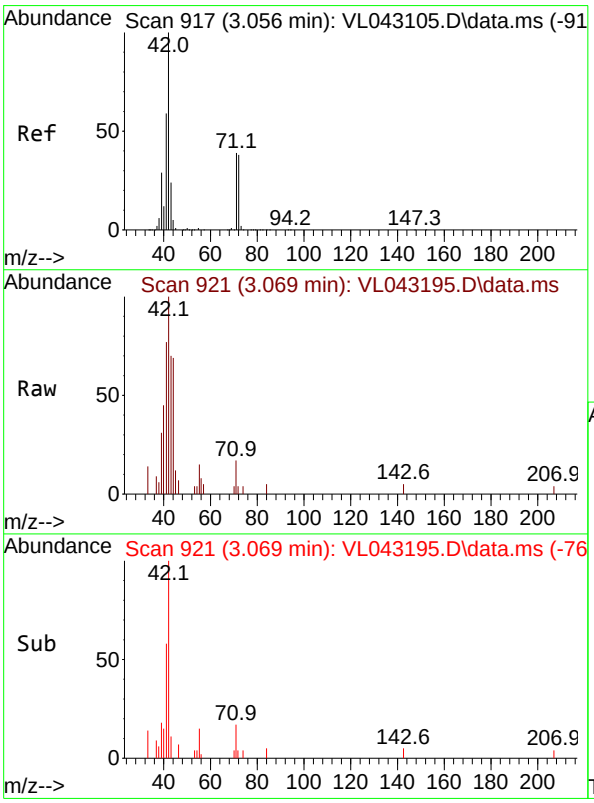
#39
1,2-Dichloropropane
Concen: 7.371 ppbv
RT: 3.969 min Scan# 11
Delta R.T. -0.346 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 63 Resp: 101260

Ion	Ratio	Lower	Upper
63	100		
41	1.0	58.0	87.0#
62	17.5	54.7	82.1#

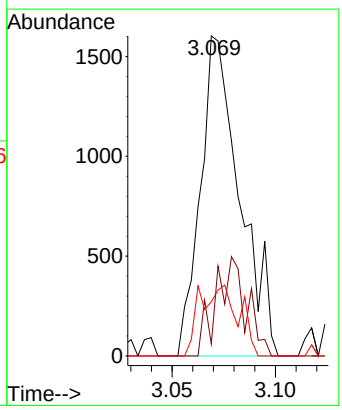


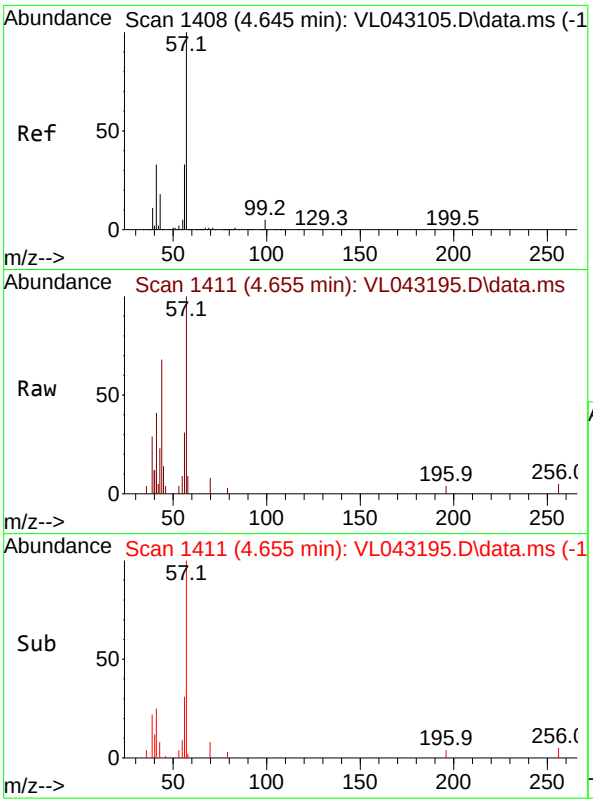


#41
Tetrahydrofuran
Concen: 0.142 ppbv
RT: 3.069 min Scan# 921
Delta R.T. 0.013 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 42 Resp: 2127

Ion	Ratio	Lower	Upper
42	100		
72	23.8	31.3	46.9#
71	21.7	30.4	45.6#



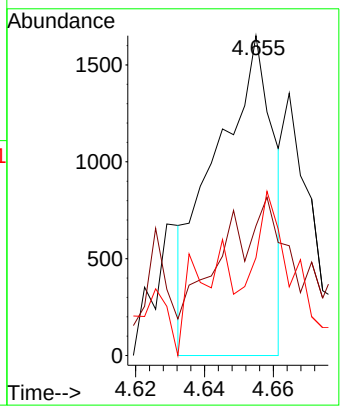


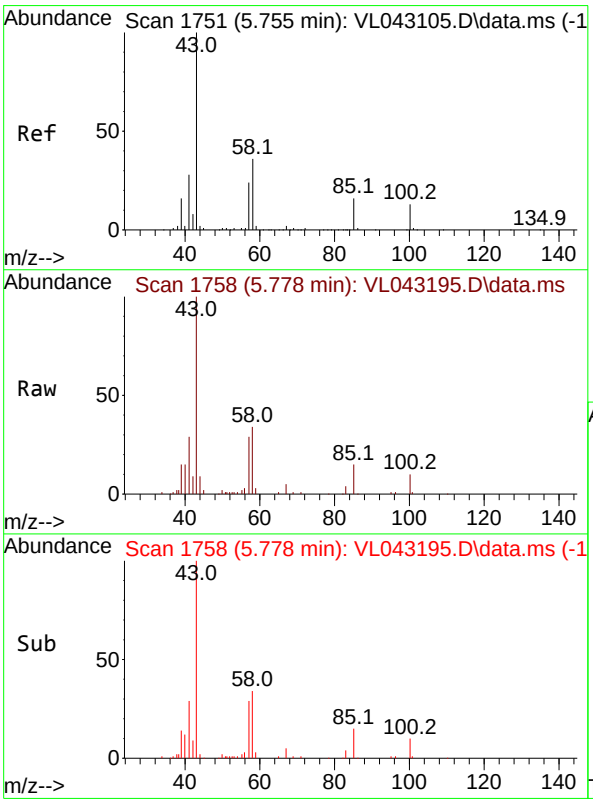
#44
2,2,4-Trimethylpentane
Concen: 0.031 ppbv
RT: 4.655 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 57 Resp: 1967

Ion	Ratio	Lower	Upper
57	100		
41	113.5	26.3	39.5#
56	80.5	25.9	38.9#

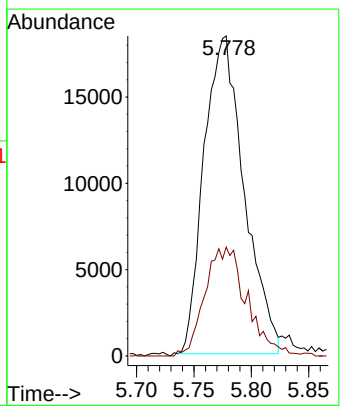


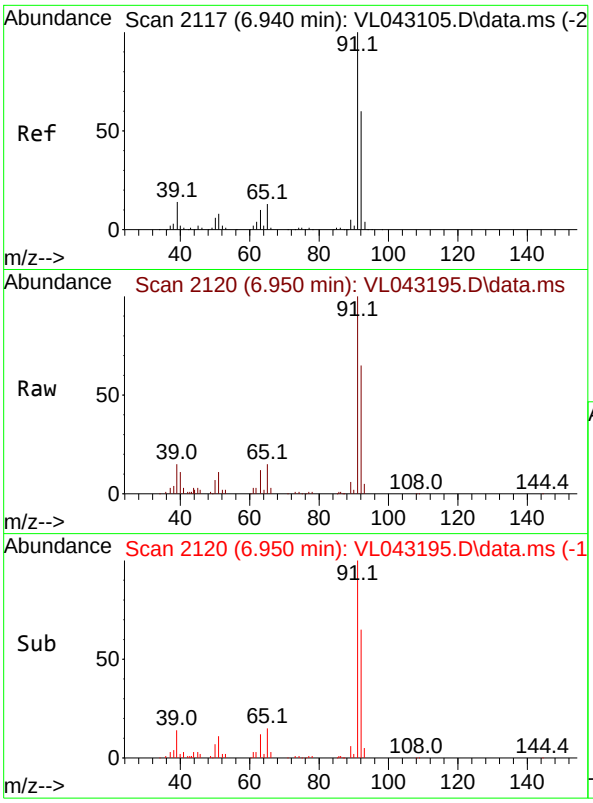


#50
4-Methyl-2-Pentanone
Concen: 1.213 ppbv
RT: 5.778 min Scan# 1758
Delta R.T. 0.023 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 43 Resp: 44901

Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.1	43.7



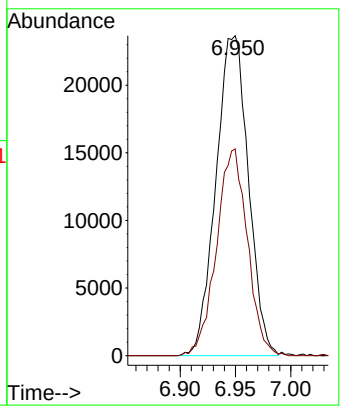


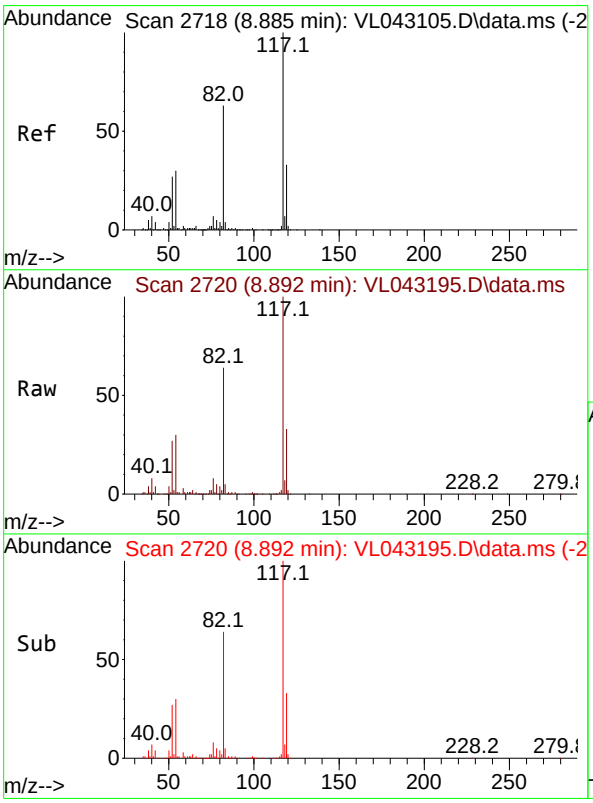
#53
Toluene
Concen: 1.085 ppbv
RT: 6.950 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 91 Resp: 48404

Ion	Ratio	Lower	Upper
91	100		
92	61.4	48.8	73.2

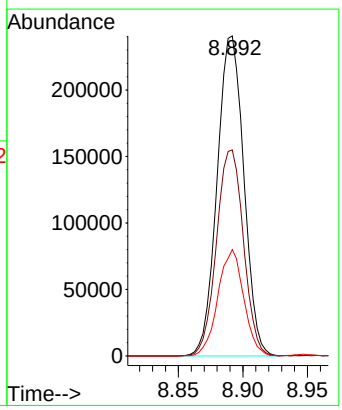


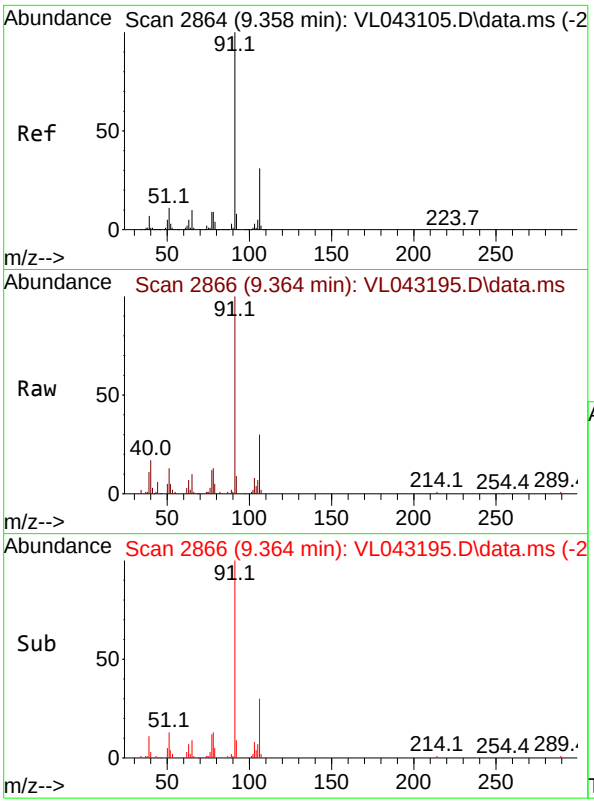


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2720
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion:117 Resp: 346200

Ion	Ratio	Lower	Upper
117	100		
82	65.1	53.8	80.8
119	32.2	25.4	38.0



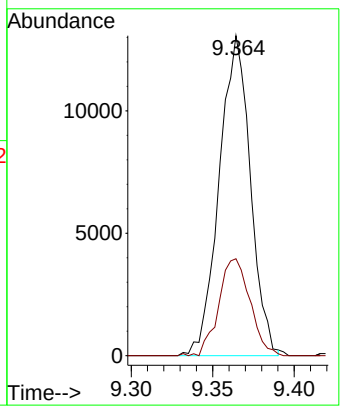


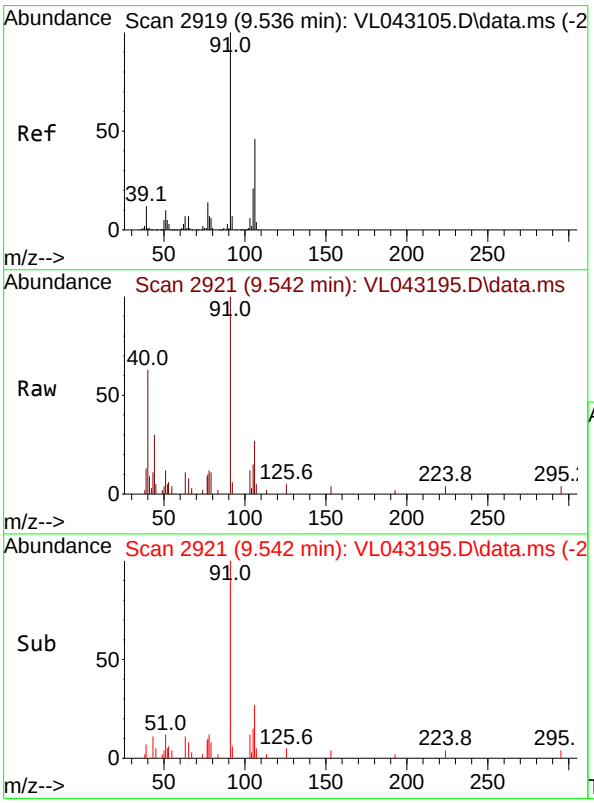
#58
Ethyl Benzene
Concen: 0.292 ppbv
RT: 9.364 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 91 Resp: 17354

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.8	37.2

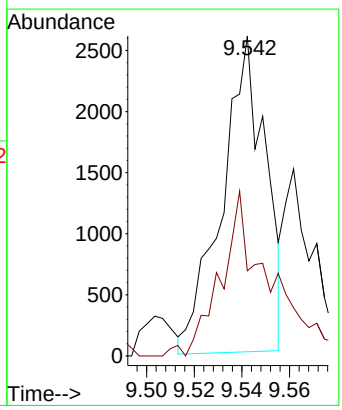


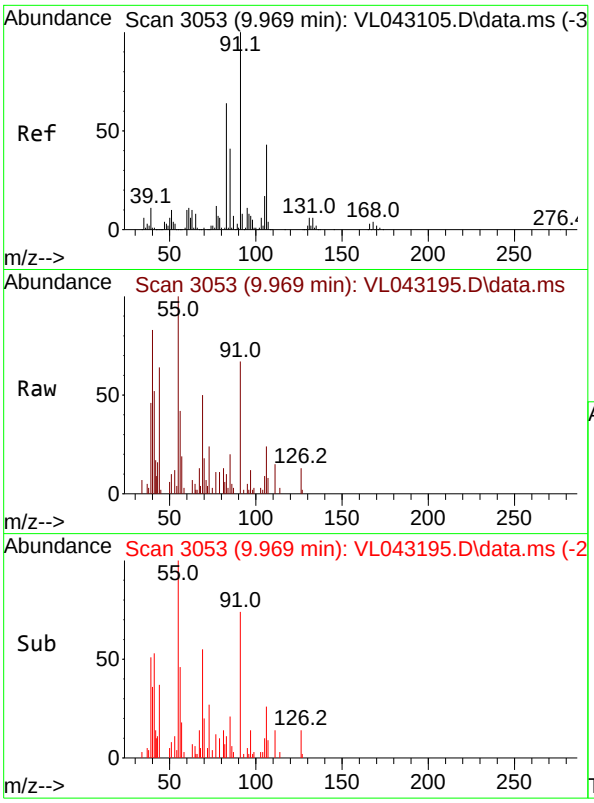


#59
m/p-Xylene
Concen: 0.069 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 91 Resp: 3279

Ion	Ratio	Lower	Upper
91	100		
106	58.2	38.0	57.0#



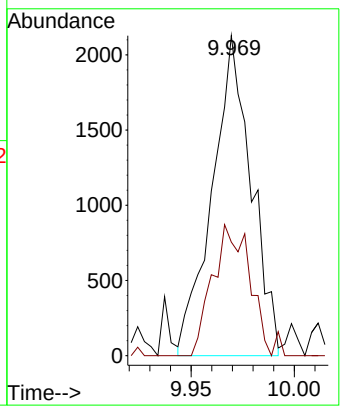


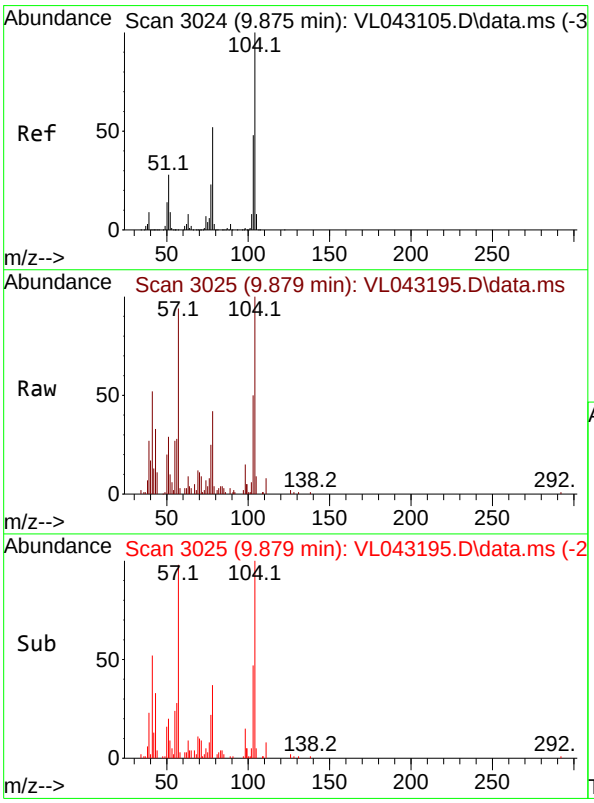
#60
o-Xylene
Concen: 0.060 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 91 Resp: 2800

Ion	Ratio	Lower	Upper
91	100		
106	39.8	21.9	65.8

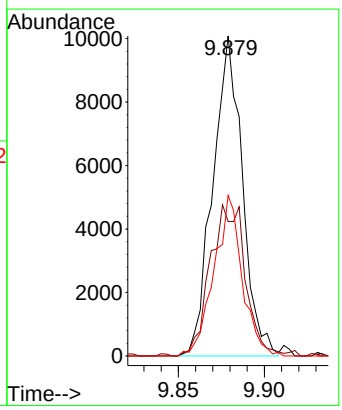


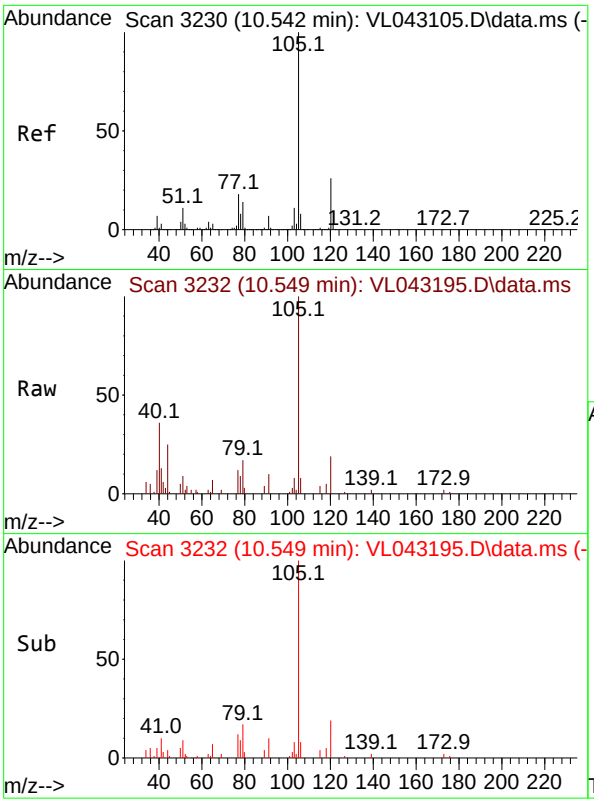


#61
Styrene
Concen: 0.570 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion:104 Resp: 12035

Ion	Ratio	Lower	Upper
104	100		
78	56.8	40.2	60.2
103	47.7	36.9	55.3



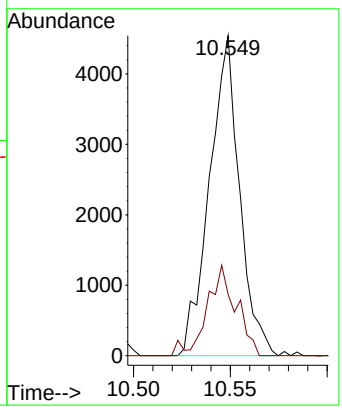


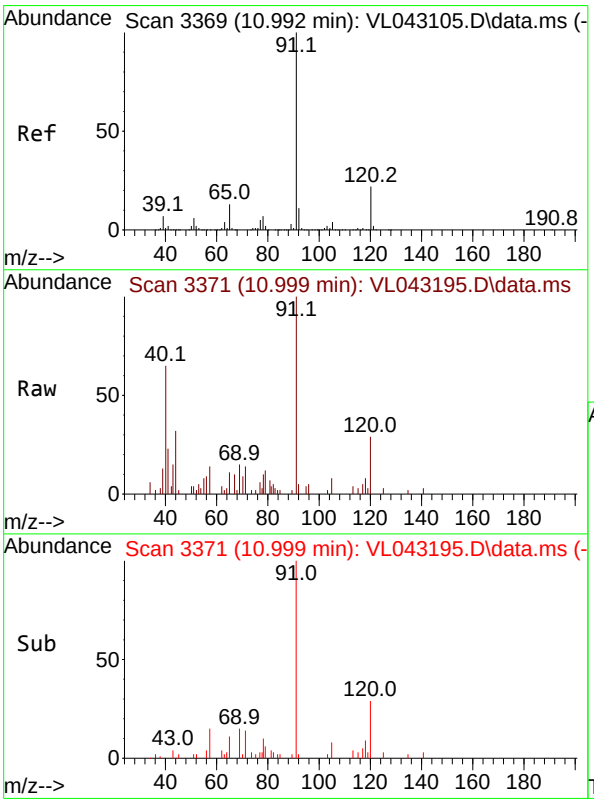
#62
Isopropylbenzene
Concen: 0.058 ppbv
RT: 10.549 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion:105 Resp: 4896

Ion	Ratio	Lower	Upper
105	100		
120	27.3	20.2	30.4

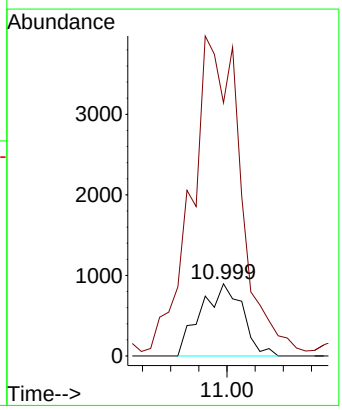


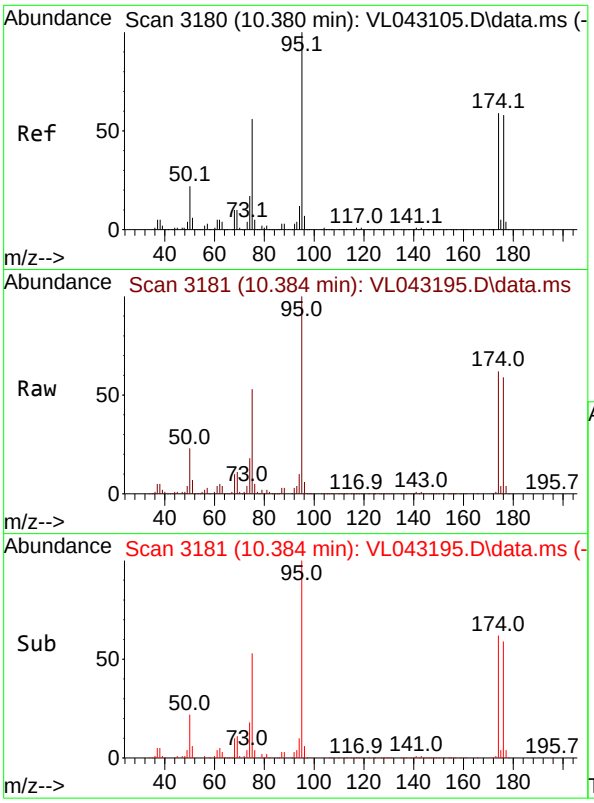


#64
n-propylbenzene
Concen: 0.041 ppbv
RT: 10.999 min Scan# 3371
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion:120 Resp: 928

Ion	Ratio	Lower	Upper
120	100		
91	538.0	361.6	542.4



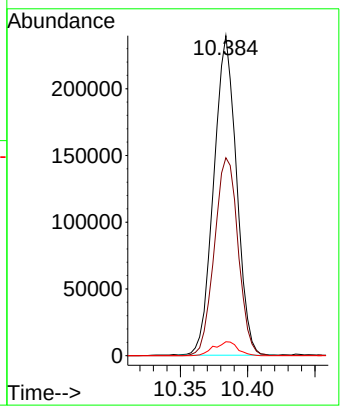


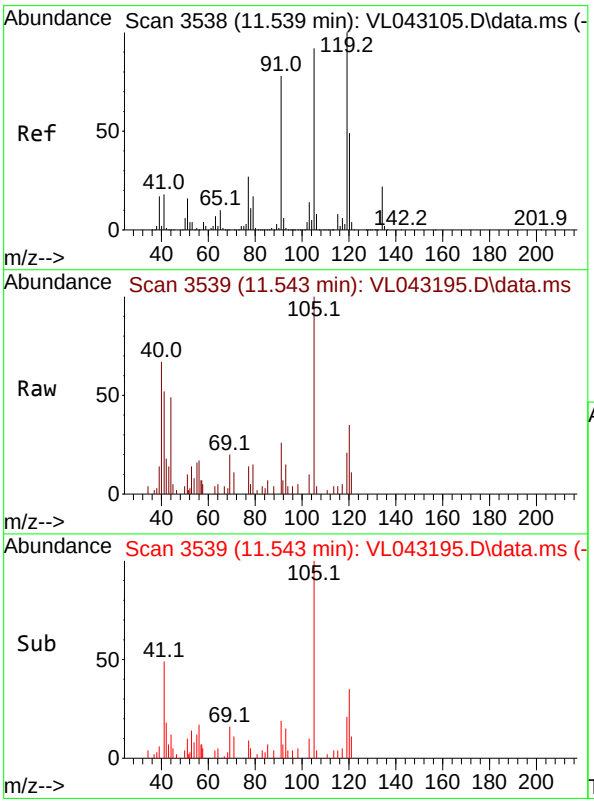
#68
1-Bromo-4-Fluorobenzene
Concen: 10.452 ppbv
RT: 10.384 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 95 Resp: 281256

Ion	Ratio	Lower	Upper
95	100		
174	64.7	48.3	72.5
175	4.6	3.8	5.8

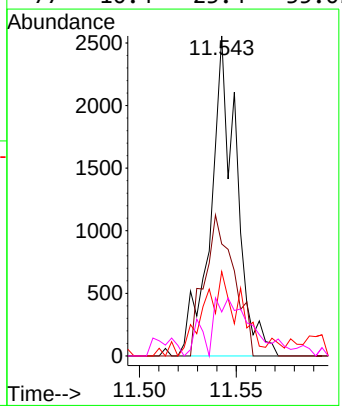




#74
1,2,4-Trimethylbenzene
Concen: 0.045 ppbv
RT: 11.543 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion:105 Resp: 2371

Ion	Ratio	Lower	Upper
105	100		
120	35.0	42.8	64.2#
91	33.6	68.3	102.5#
77	10.4	23.4	35.0#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043196.D
Acq On : 13 Nov 2025 13:04
Operator : SY/MD
Sample : Q3627-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Quant Time: Nov 14 04:39:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

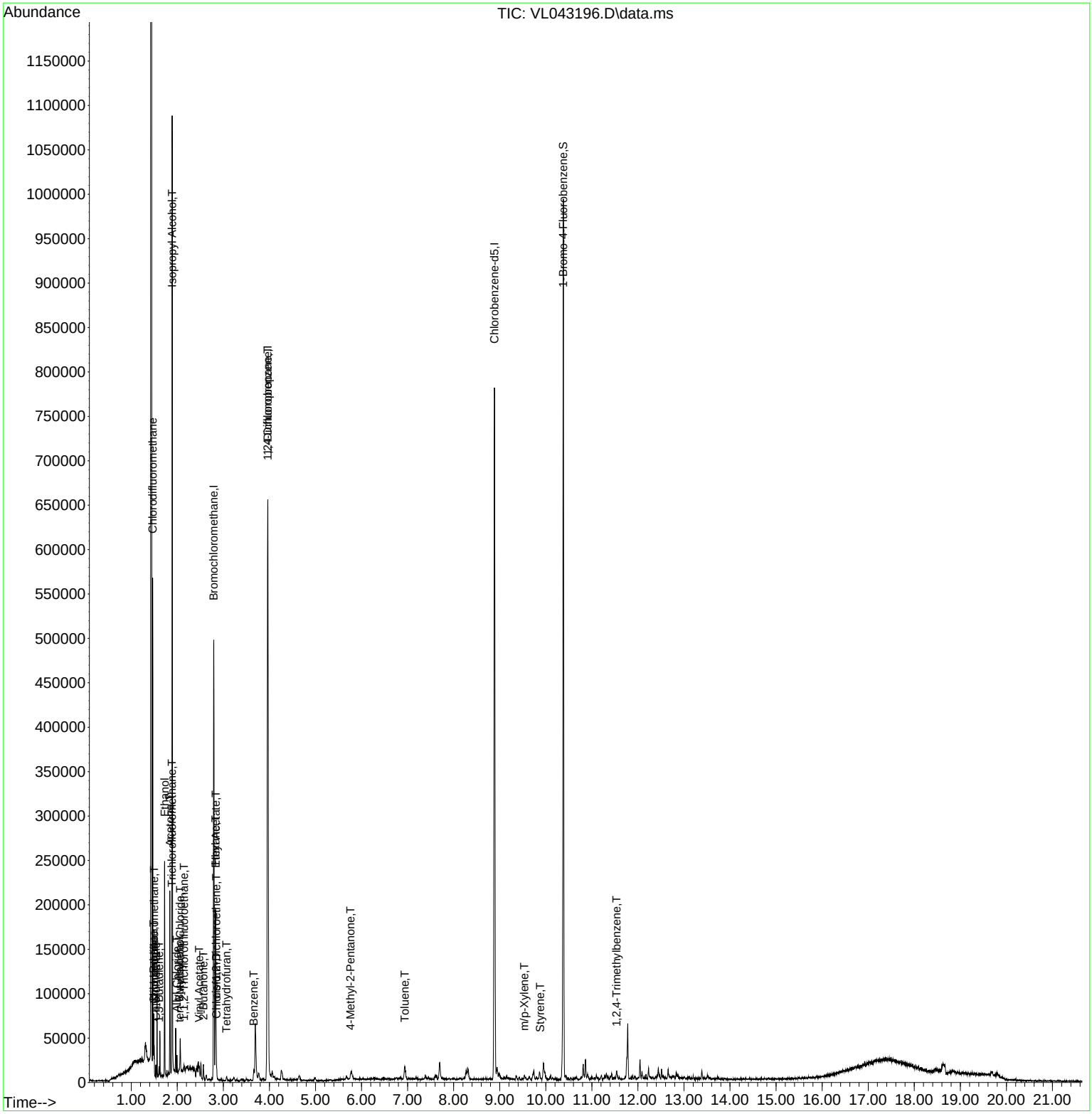
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	143373	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	385279	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	320935	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	248695	9.970	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	8053	0.395	ppbv		96
3) Chlorodifluoromethane	1.467	51	127554	5.784	ppbv	#	60
4) Chloromethane	1.535	50	3885	0.481	ppbv		95
7) Chloroethane	1.492	64	497	0.153	ppbv	#	64
9) Propene	1.486	41	6695	0.685	ppbv		95
11) Trichlorofluoromethane	1.881	101	5677	0.285	ppbv		94
12) 1,1,2-Trichlorotrifluo...	2.146	101	868	0.054	ppbv		97
13) Ethanol	1.725	45	84748	23.425	ppbv		98
15) Acetone	1.839	43	83838	4.338	ppbv		97
16) 1,3-Butadiene	1.602	39	1332	0.145	ppbv	#	57
17) tert-Butyl alcohol	2.049	59	1808	0.068	ppbv		96
19) Isopropyl Alcohol	1.887	45	462070	38.391	ppbv	#	37
20) Methylene Chloride	2.065	84	4676	0.612	ppbv		94
21) Allyl Chloride	1.991	41	909	0.064	ppbv	#	22
23) Vinyl Acetate	2.476	43	2544	0.090	ppbv	#	63
25) Ethyl Acetate	2.832	43	39878	0.832	ppbv	#	86
26) Hexane	2.829	57	41872	1.896	ppbv	#	49
29) Chloroform	2.852	83	3412	0.107	ppbv		99
31) cis-1,2-Dichloroethene	2.845	61	958	0.045	ppbv	#	24
34) 2-Butanone	2.567	43	10888	0.420	ppbv		92
36) Benzene	3.661	78	5966	0.164	ppbv		96
39) 1,2-Dichloropropane	3.962	63	98257	7.407	ppbv	#	26
41) Tetrahydrofuran	3.065	42	655	0.045	ppbv	#	80
50) 4-Methyl-2-Pentanone	5.762	43	2096	0.059	ppbv	#	38
53) Toluene	6.940	91	8701	0.202	ppbv	#	82
59) m/p-Xylene	9.535	91	1751	0.040	ppbv	#	46
61) Styrene	9.879	104	818	0.042	ppbv	#	48
74) 1,2,4-Trimethylbenzene	11.536	105	2240	0.045	ppbv	#	43

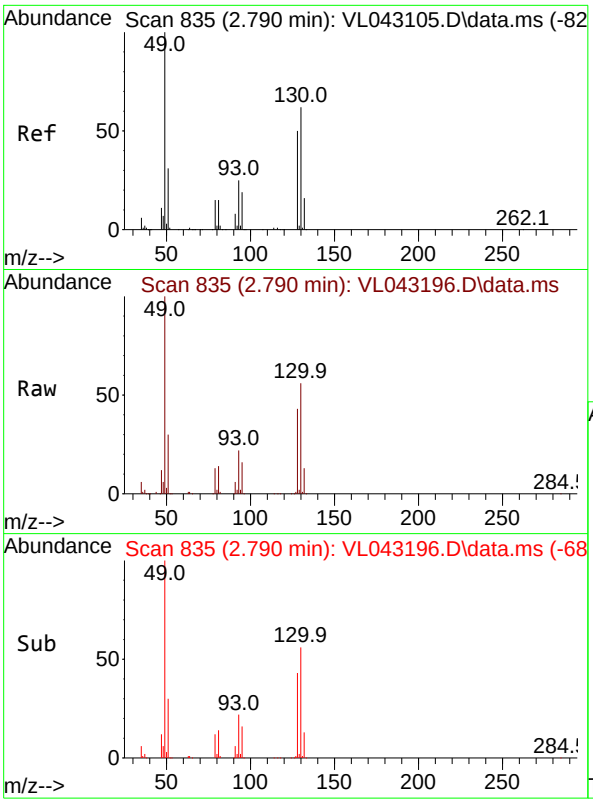
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043196.D
Acq On : 13 Nov 2025 13:04
Operator : SY/MD
Sample : Q3627-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Quant Time: Nov 14 04:39:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



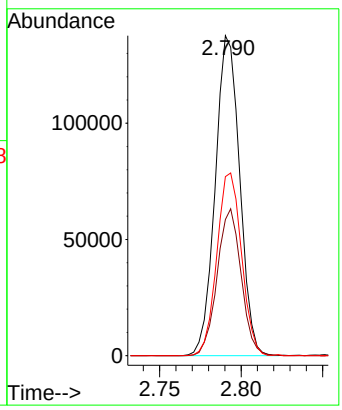


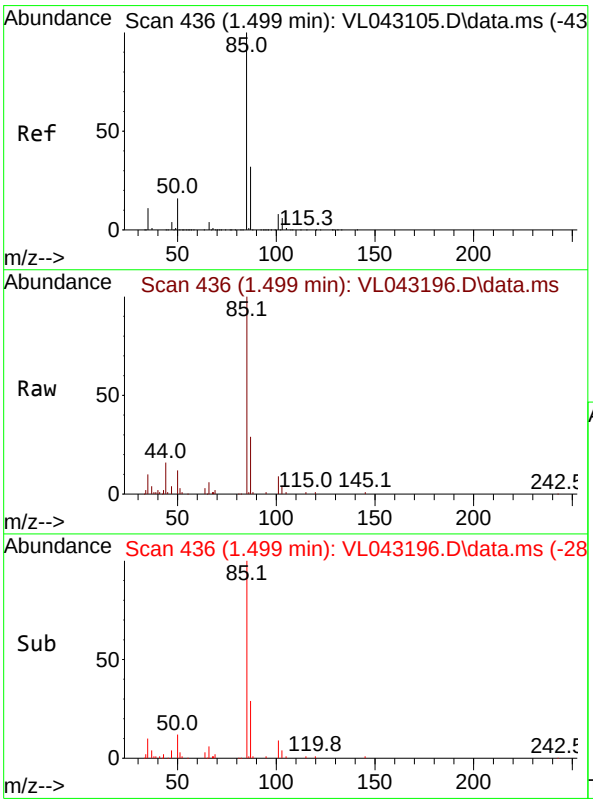
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 49 Resp: 143373

Ion	Ratio	Lower	Upper
49	100		
128	45.0	24.4	73.4
130	57.7	31.0	93.0

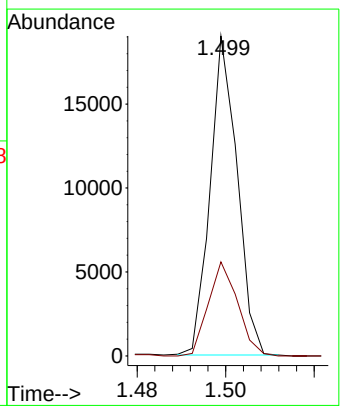


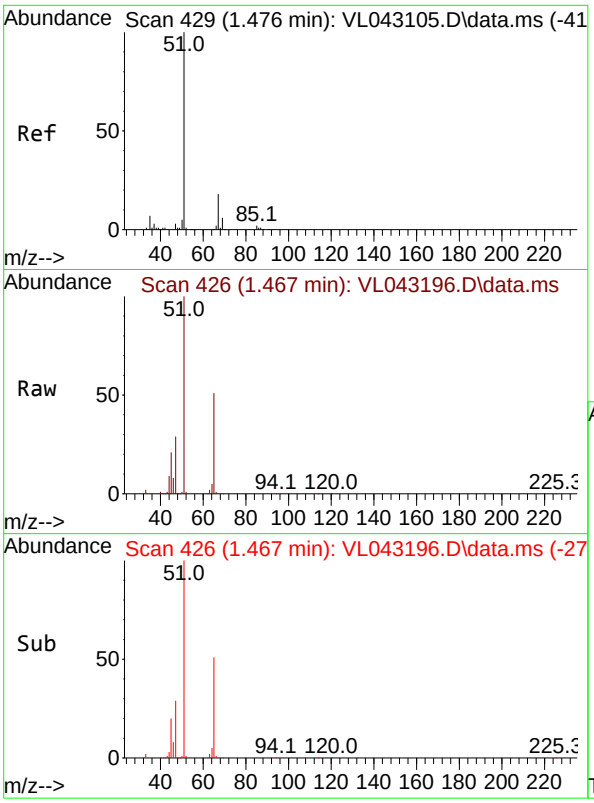


#2
Dichlorodifluoromethane
Concen: 0.395 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 85 Resp: 8053

Ion	Ratio	Lower	Upper
85	100		
87	29.5	25.3	37.9



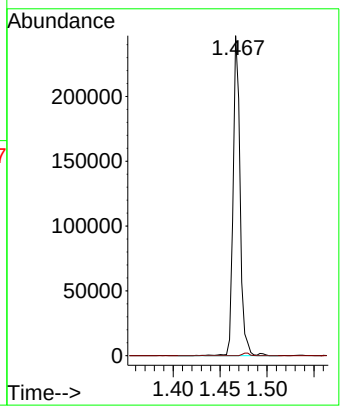


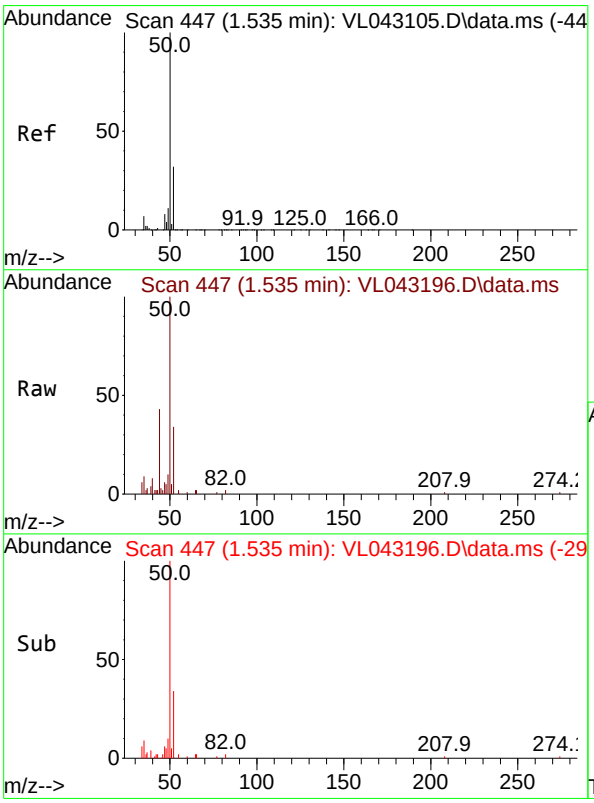
#3
Chlorodifluoromethane
Concen: 5.784 ppbv
RT: 1.467 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 51 Resp: 127554

Ion	Ratio	Lower	Upper
51	100		
67	0.8	15.1	22.7#

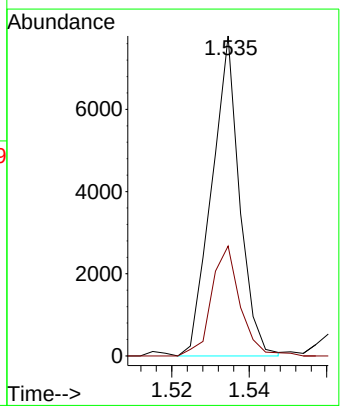


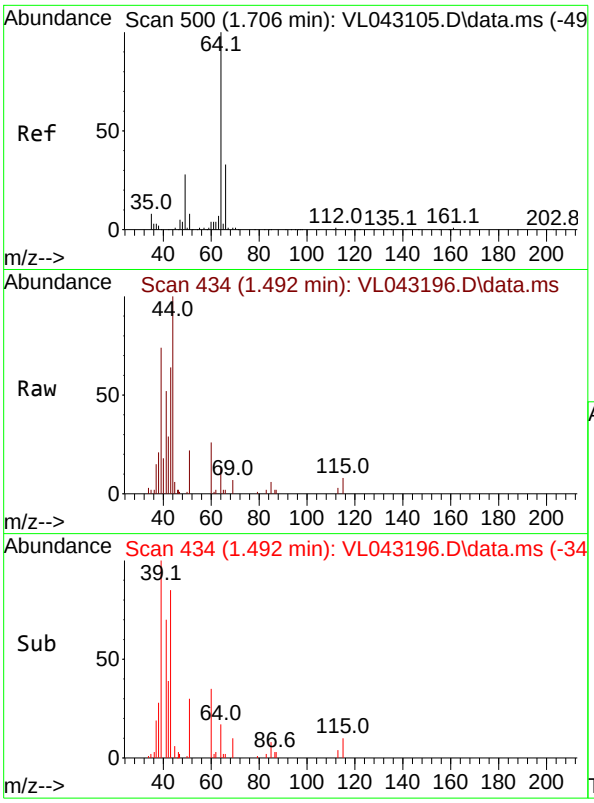


#4
Chloromethane
Concen: 0.481 ppbv
RT: 1.535 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 50 Resp: 3885

Ion	Ratio	Lower	Upper
50	100		
52	34.4	25.2	37.8



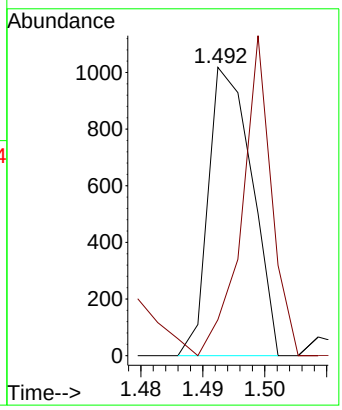


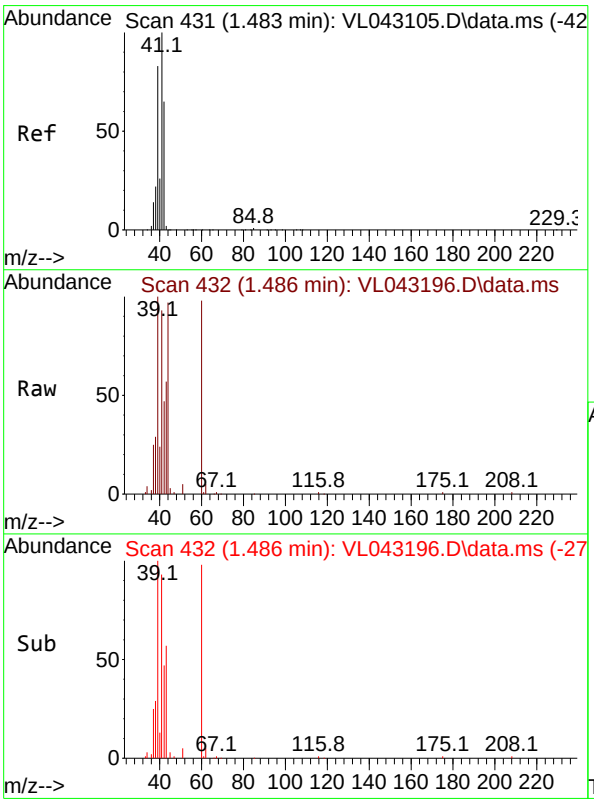
#7
Chloroethane
Concen: 0.153 ppbv
RT: 1.492 min Scan# 4
Delta R.T. -0.214 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 64 Resp: 497

Ion	Ratio	Lower	Upper
64	100		
66	12.5	26.0	39.0#

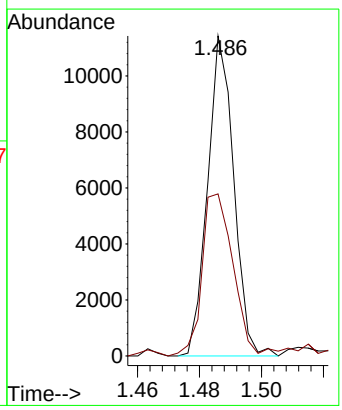


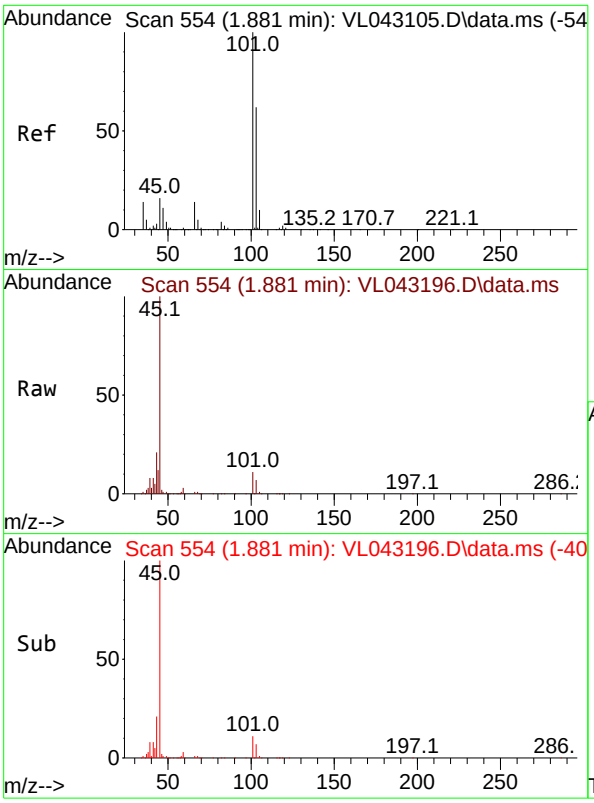


#9
Propene
Concen: 0.685 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 41 Resp: 6695

Ion	Ratio	Lower	Upper
41	100		
42	64.7	55.1	82.7



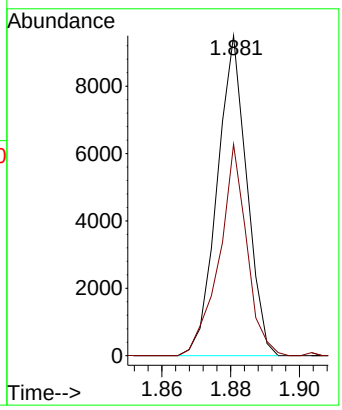


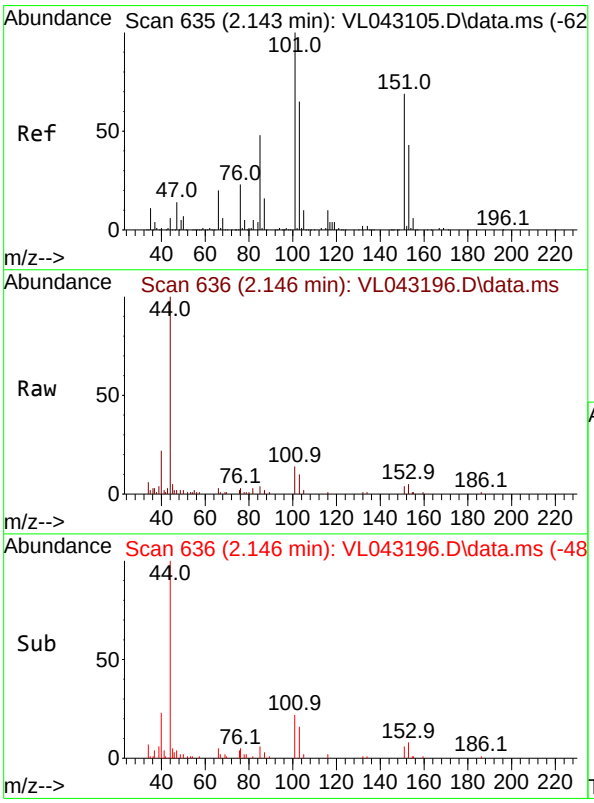
#11
Trichlorofluoromethane
Concen: 0.285 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion:101 Resp: 5677

Ion	Ratio	Lower	Upper
101	100		
103	66.1	49.3	73.9

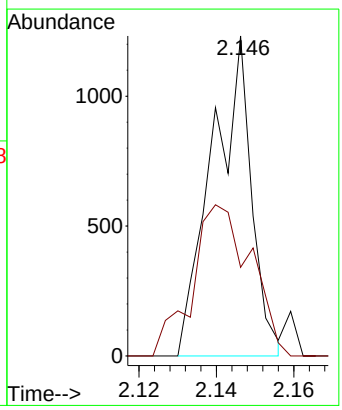


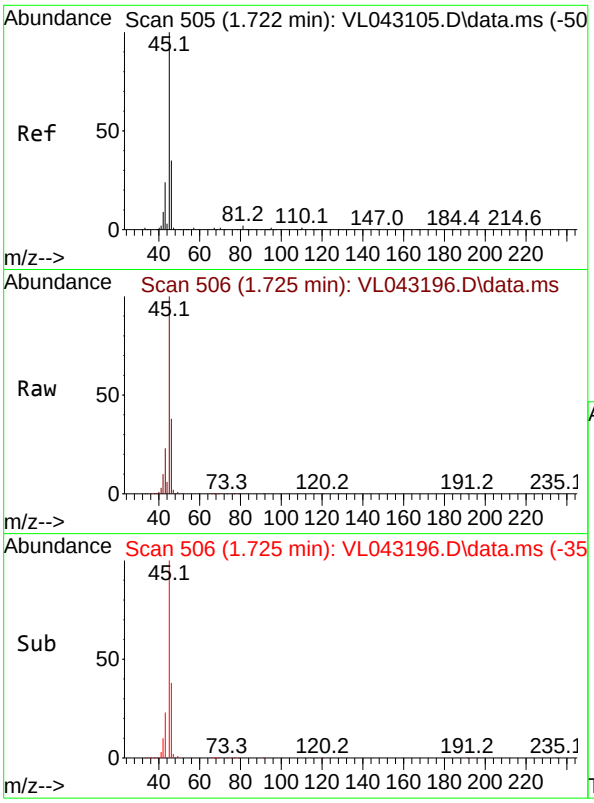


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.054 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion:101 Resp: 868

Ion	Ratio	Lower	Upper
101	100		
151	70.5	54.7	82.1



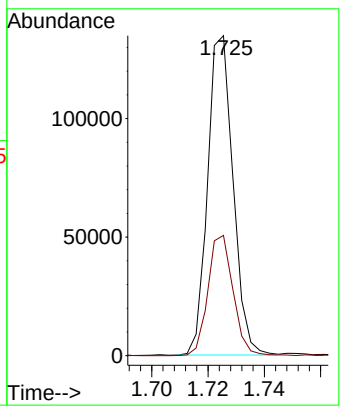


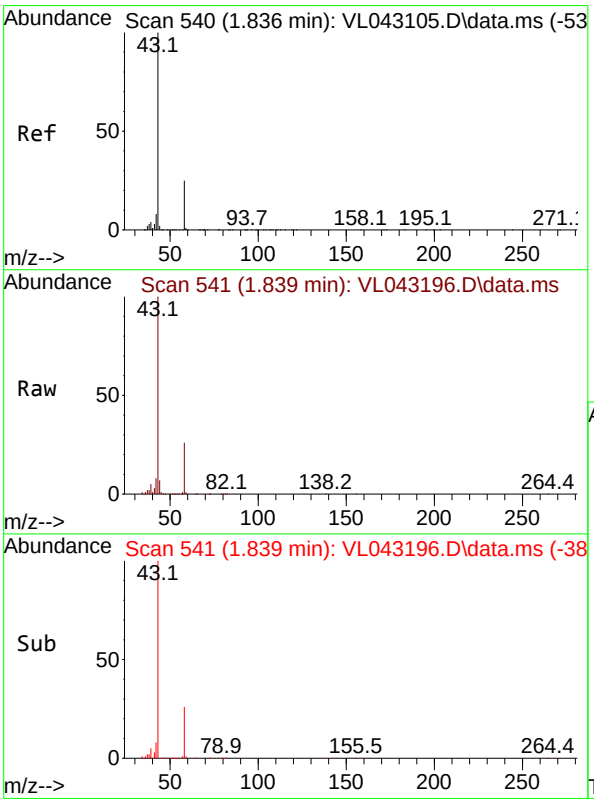
#13
Ethanol
Concen: 23.425 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 45 Resp: 84748

Ion	Ratio	Lower	Upper
45	100		
46	37.8	14.7	58.9

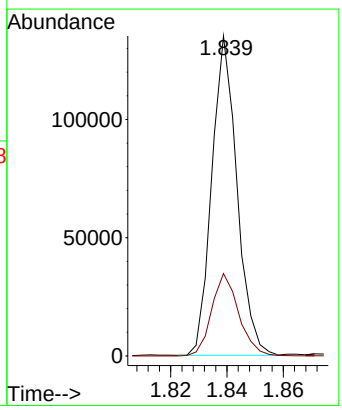


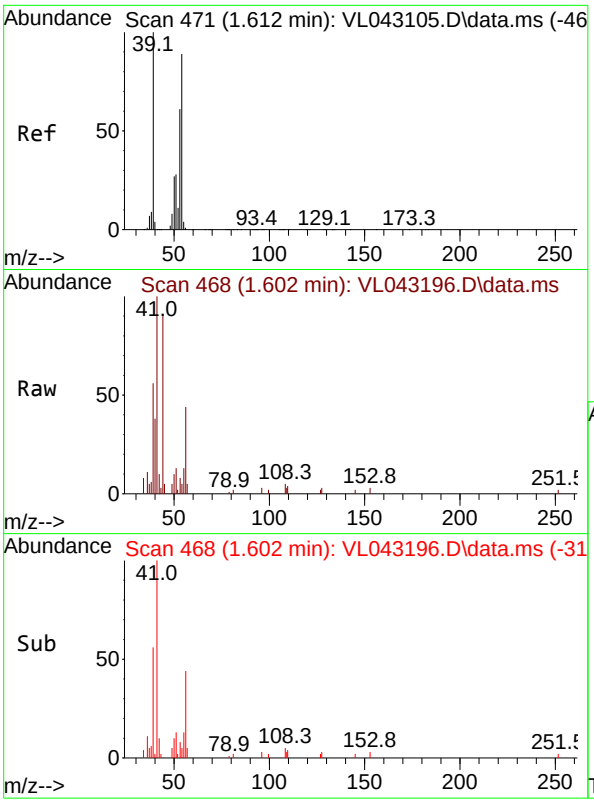


#15
Acetone
Concen: 4.338 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 43 Resp: 83838

Ion	Ratio	Lower	Upper
43	100		
58	27.8	20.8	31.2



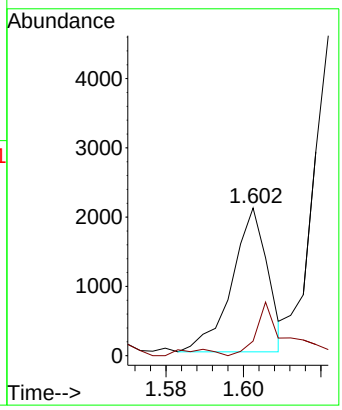


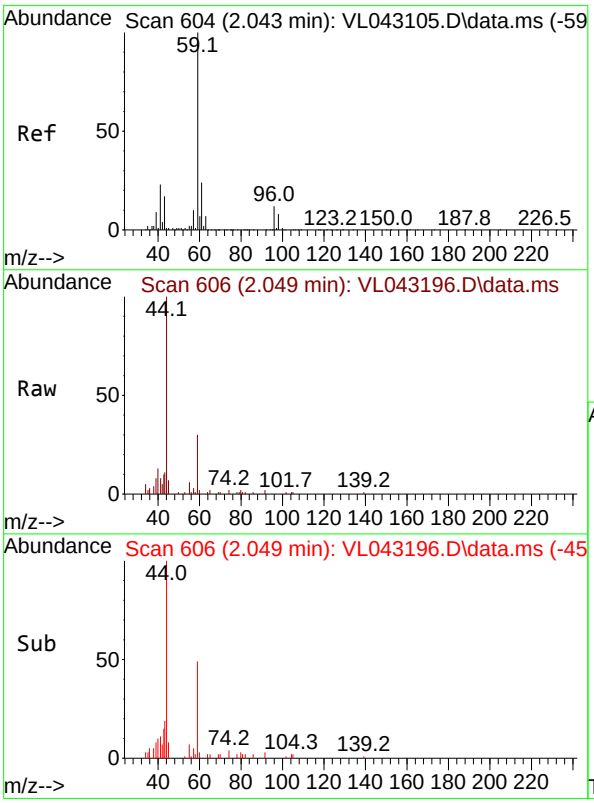
#16
1,3-Butadiene
Concen: 0.145 ppbv
RT: 1.602 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 39 Resp: 1332

Ion	Ratio	Lower	Upper
39	100		
54	37.3	59.0	88.4#

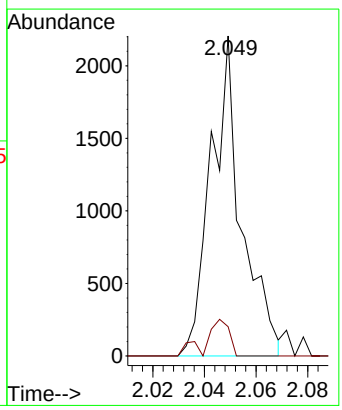


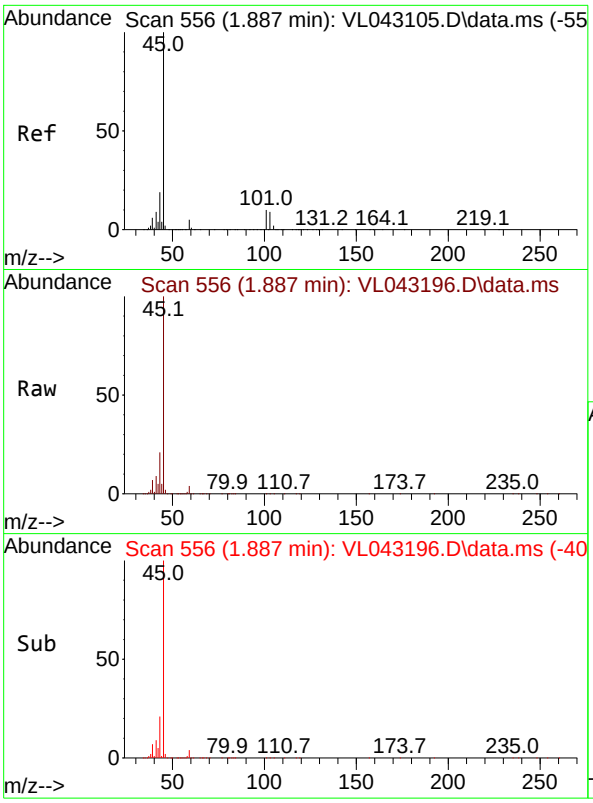


#17
tert-Butyl alcohol
Concen: 0.068 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.006 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 59 Resp: 1808

Ion	Ratio	Lower	Upper
59	100		
57	8.9	8.2	12.4



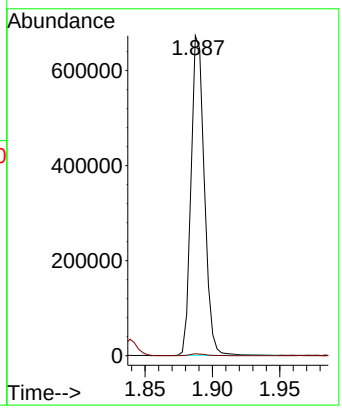


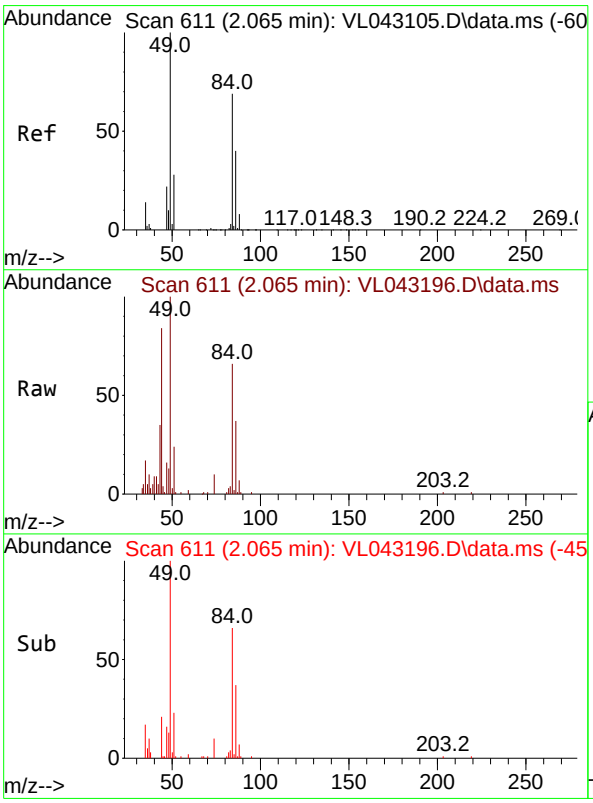
#19
Isopropyl Alcohol
Concen: 38.391 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 45 Resp: 462070

Ion	Ratio	Lower	Upper
45	100		
58	0.7	31.3	46.9#

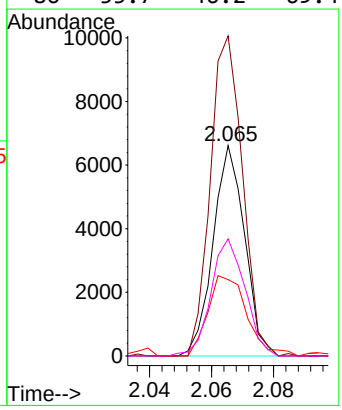


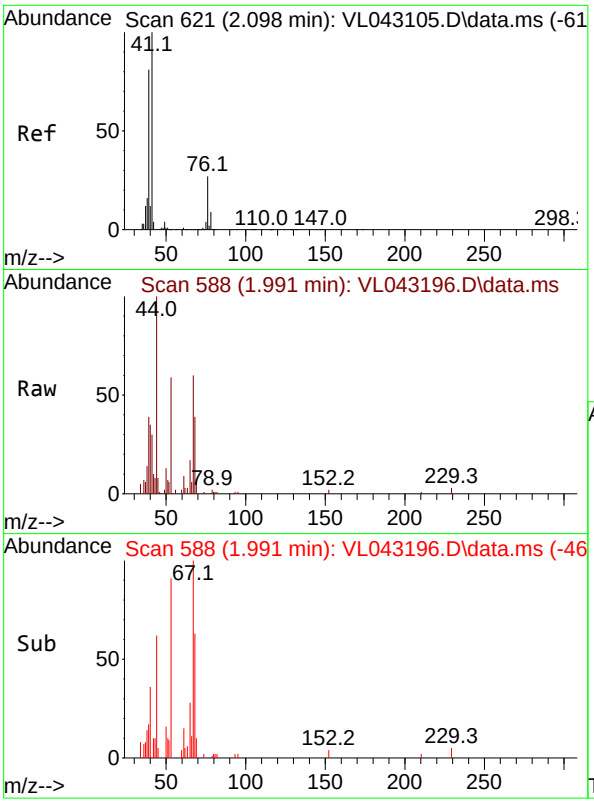


#20
Methylene Chloride
Concen: 0.612 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 84 Resp: 4676

Ion	Ratio	Lower	Upper
84	100		
49	152.1	116.6	175.0
51	36.3	34.8	52.2
86	55.7	46.2	69.4



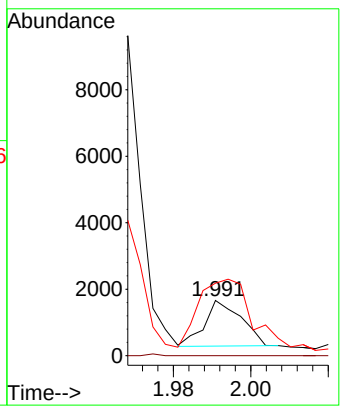


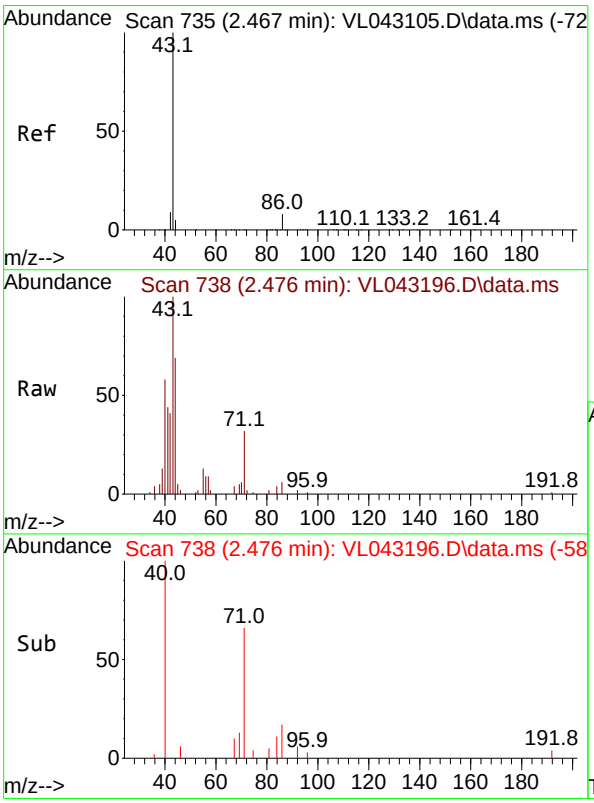
#21
Allyl Chloride
Concen: 0.064 ppbv
RT: 1.991 min Scan# 5
Delta R.T. -0.107 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 41 Resp: 909

Ion	Ratio	Lower	Upper
41	100		
76	52.7	21.5	32.3#
39	0.0	60.8	91.2#

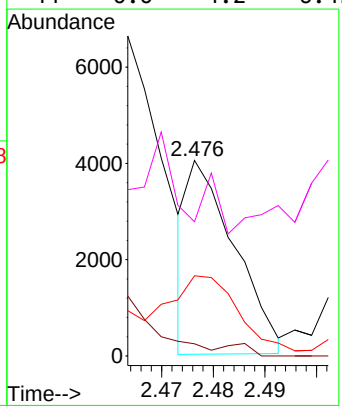


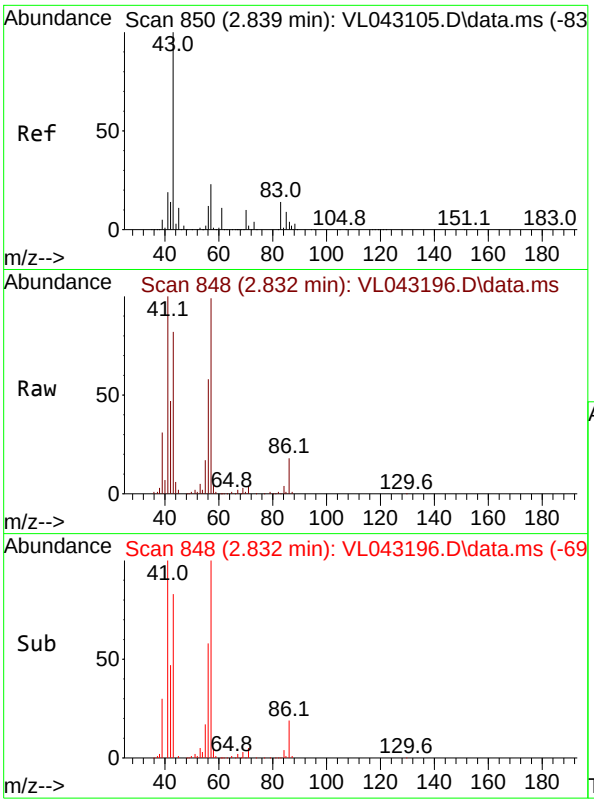


#23
Vinyl Acetate
Concen: 0.090 ppbv
RT: 2.476 min Scan# 738
Delta R.T. 0.010 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 43 Resp: 2544

Ion	Ratio	Lower	Upper
43	100		
86	6.9	6.2	9.2
42	37.9	7.6	11.4#
44	0.0	4.2	6.4#



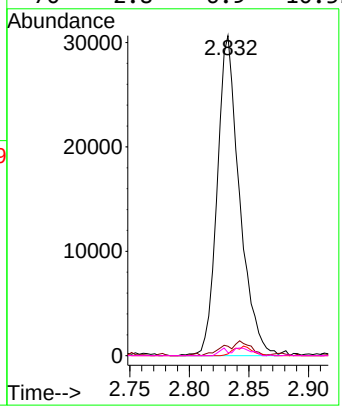


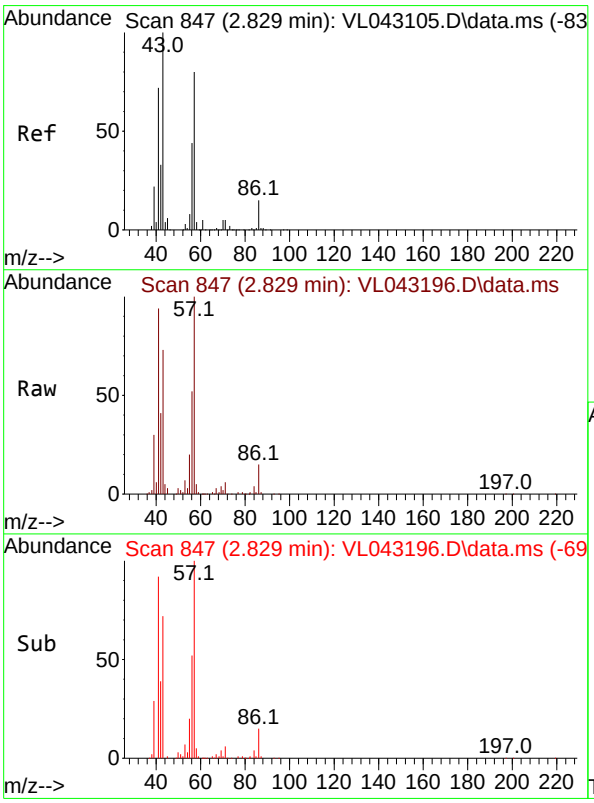
#25
Ethyl Acetate
Concen: 0.832 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 43 Resp: 39878

Ion	Ratio	Lower	Upper
43	100		
45	6.1	7.8	11.8#
61	2.4	7.0	10.6#
70	2.8	6.9	10.3#

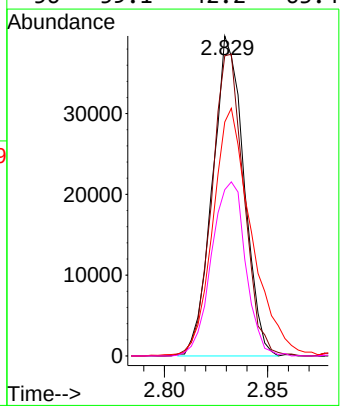


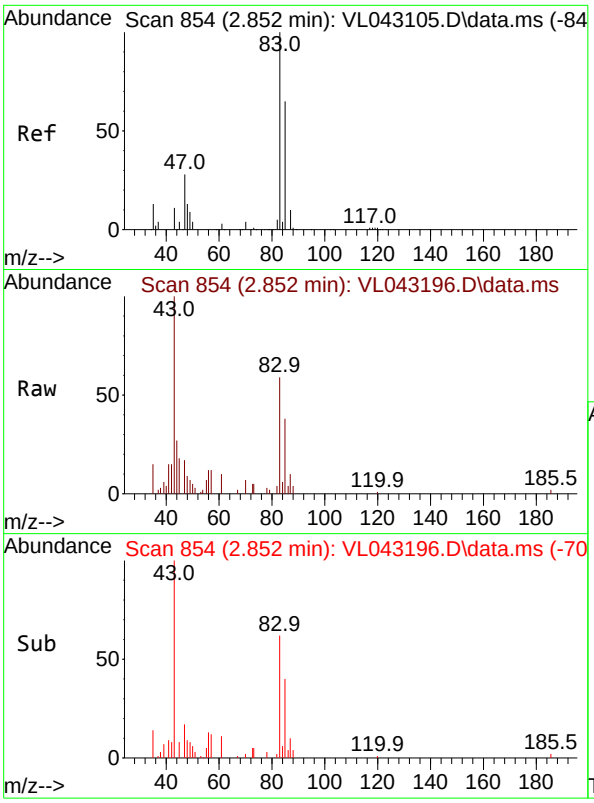


#26
Hexane
Concen: 1.896 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 57 Resp: 41872

Ion	Ratio	Lower	Upper
57	100		
41	96.5	71.4	107.0
43	95.6	178.5	267.7#
56	59.1	42.2	63.4



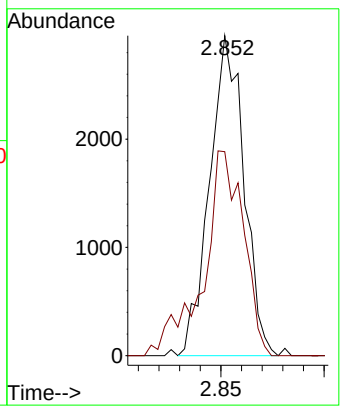


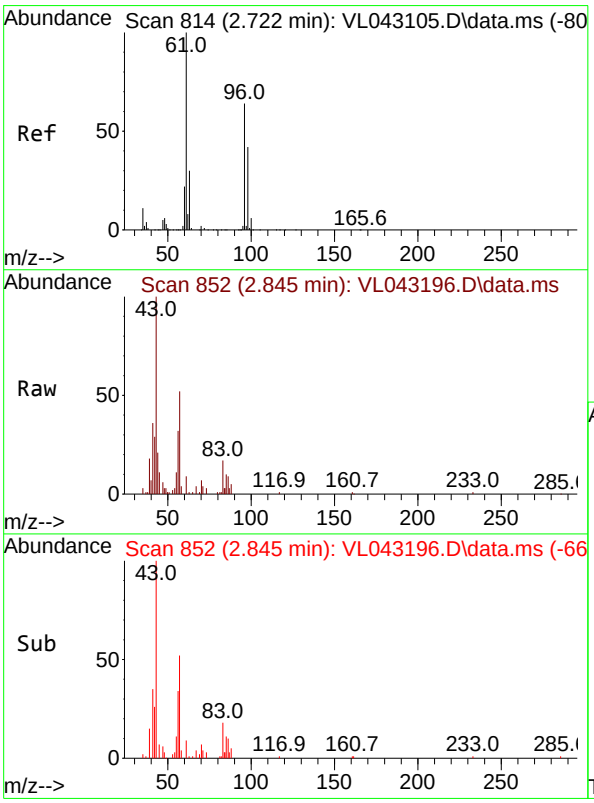
#29
Chloroform
Concen: 0.107 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 83 Resp: 3412

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.8	77.6

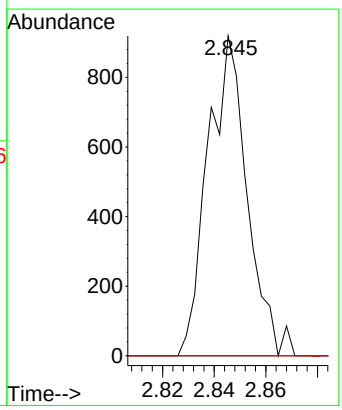


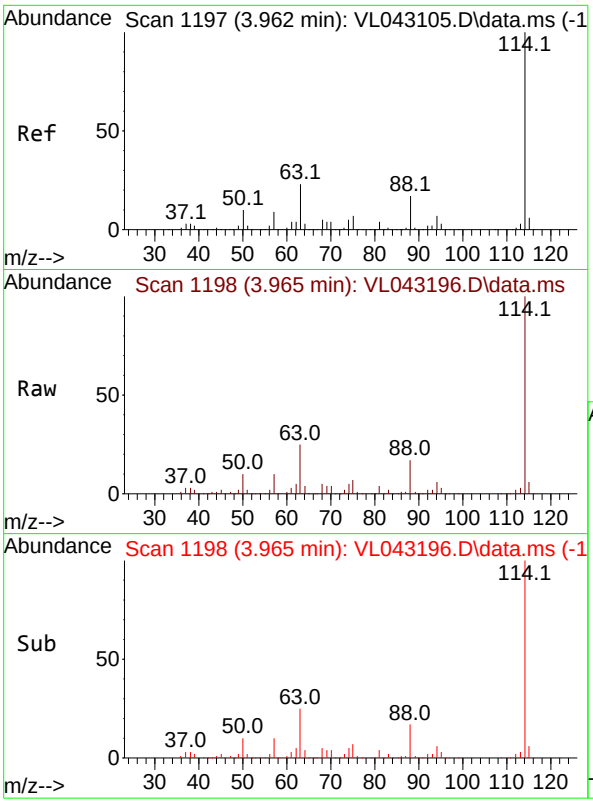


#31
cis-1,2-Dichloroethene
Concen: 0.045 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.123 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 61 Resp: 958

Ion	Ratio	Lower	Upper
61	100		
96	0.0	51.0	76.6#
98	0.0	33.5	50.3#



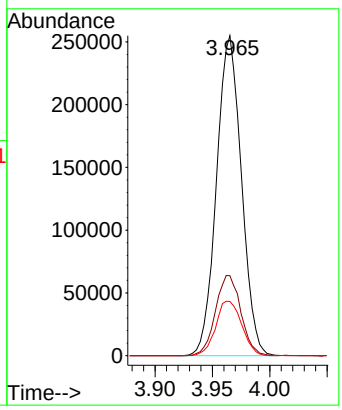


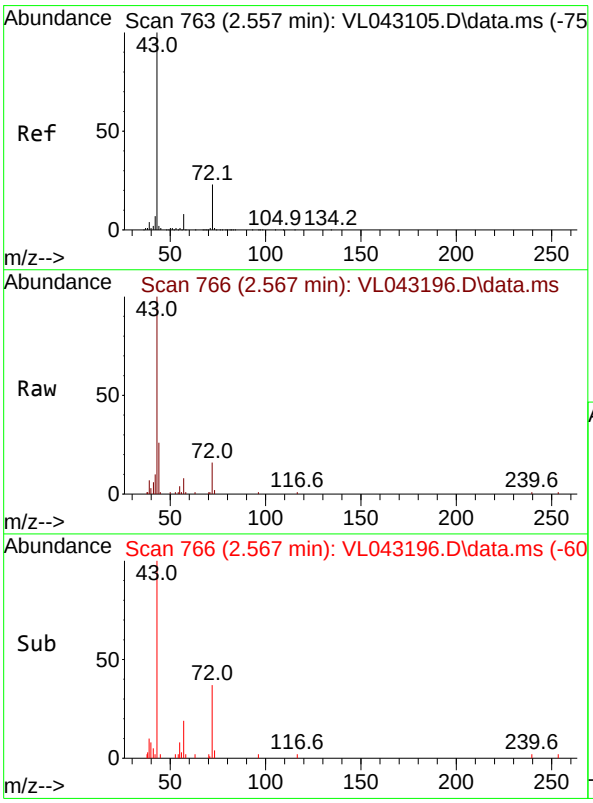
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion:114 Resp: 385279

Ion	Ratio	Lower	Upper
114	100		
63	25.5	19.3	28.9
88	17.8	13.9	20.9

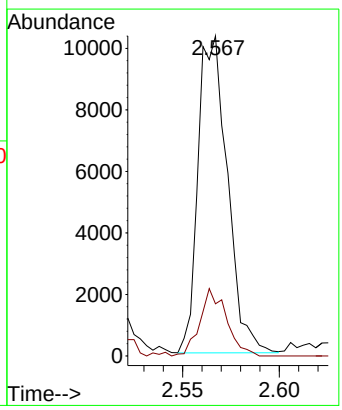


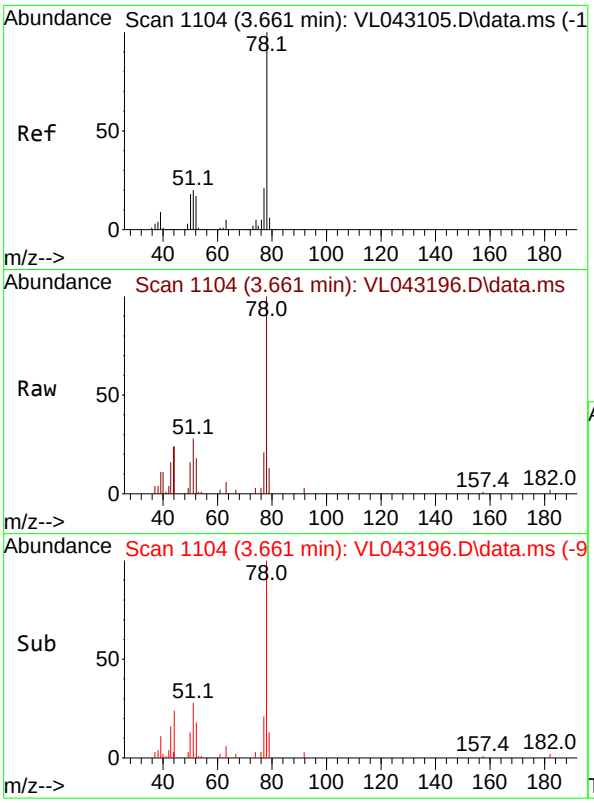


#34
2-Butanone
Concen: 0.420 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 43 Resp: 10888

Ion	Ratio	Lower	Upper
43	100		
72	19.2	18.4	27.6



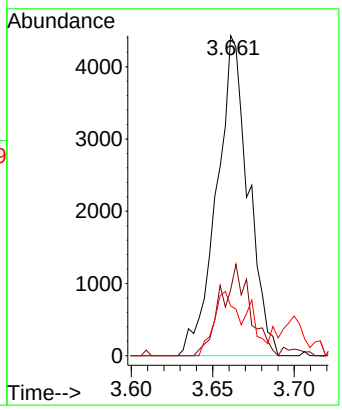


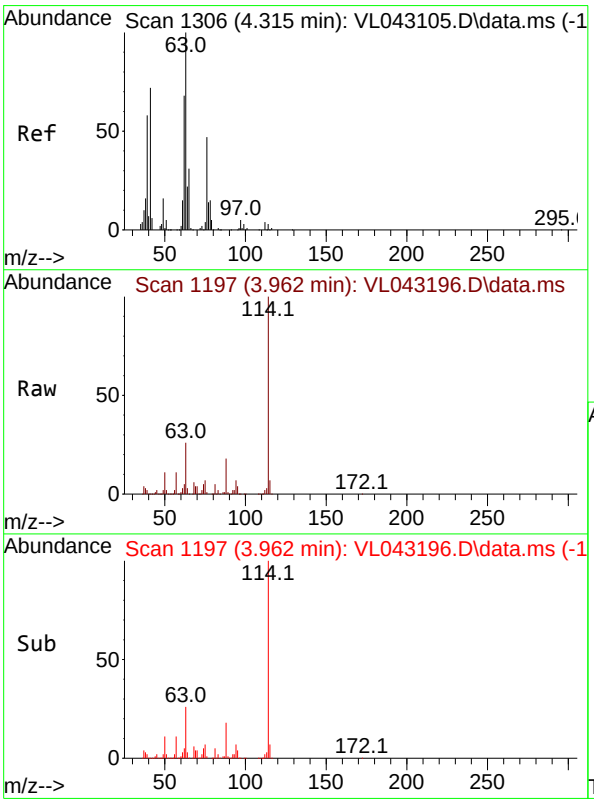
#36
Benzene
Concen: 0.164 ppbv
RT: 3.661 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 78 Resp: 5966

Ion	Ratio	Lower	Upper
78	100		
77	20.6	17.0	25.6
50	15.6	14.6	22.0

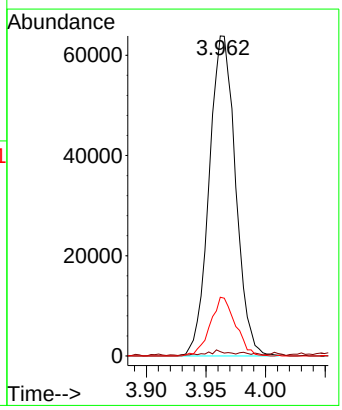


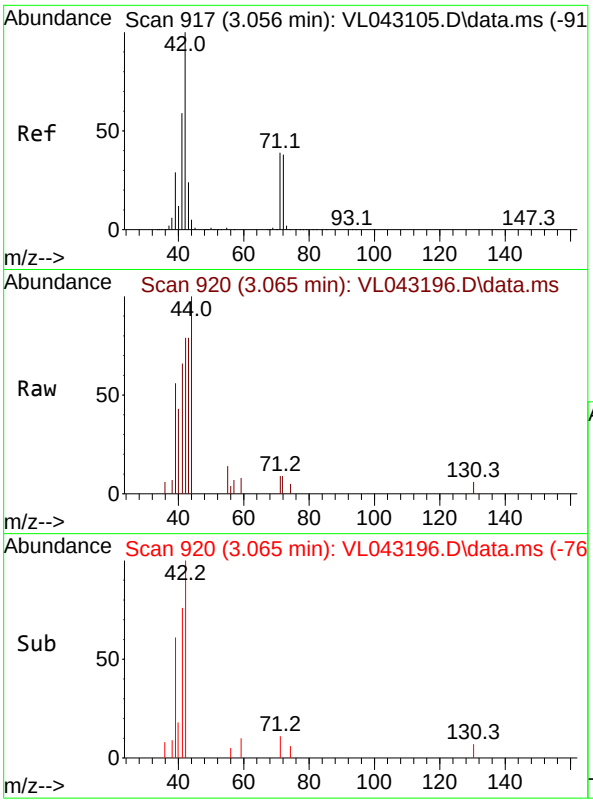


#39
1,2-Dichloropropane
Concen: 7.407 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.353 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 63 Resp: 98257

Ion	Ratio	Lower	Upper
63	100		
41	1.2	58.0	87.0#
62	18.4	54.7	82.1#



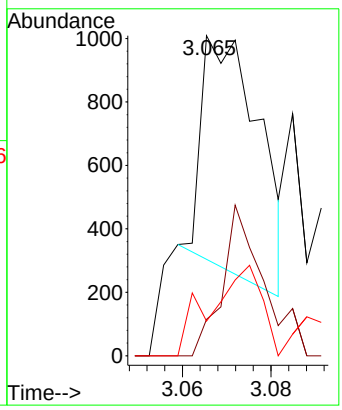


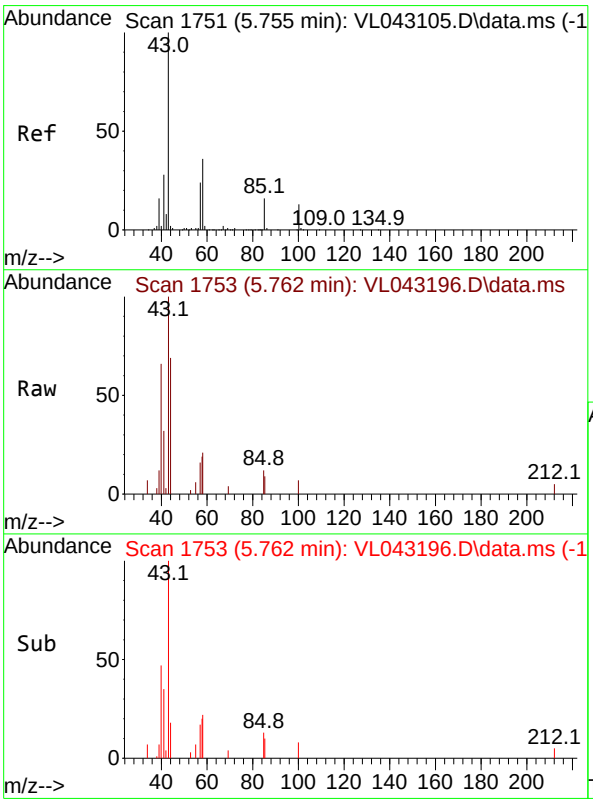
#41
Tetrahydrofuran
Concen: 0.045 ppbv
RT: 3.065 min Scan# 9
Delta R.T. 0.010 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 42 Resp: 655

Ion	Ratio	Lower	Upper
42	100		
72	52.1	31.3	46.9#
71	49.9	30.4	45.6#

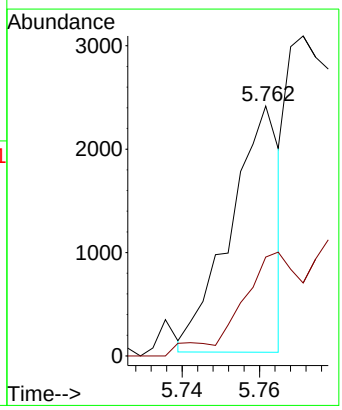


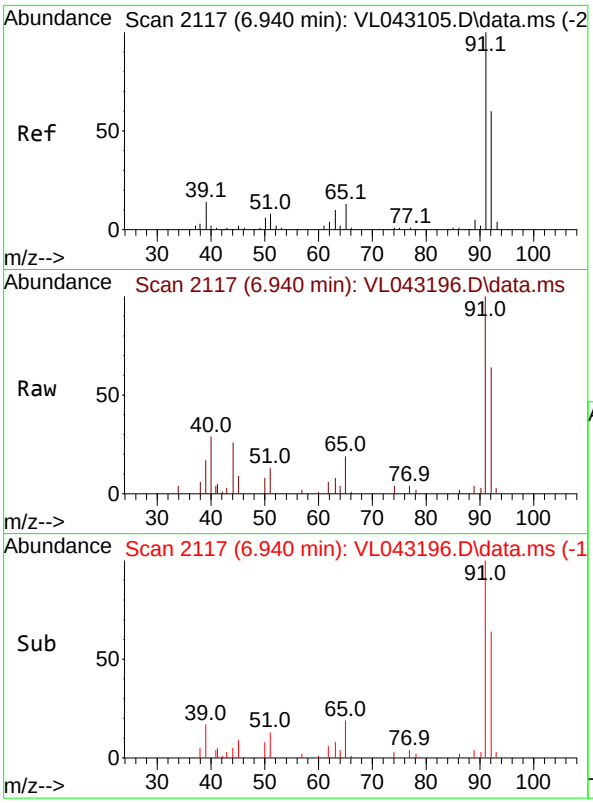


#50
4-Methyl-2-Pentanone
Concen: 0.059 ppbv
RT: 5.762 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 43 Resp: 2096

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7#



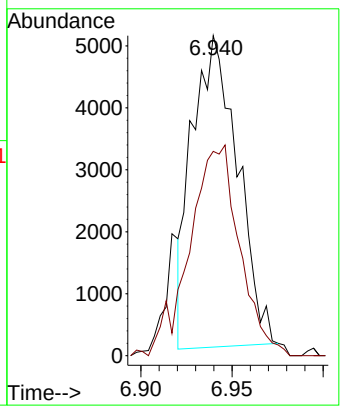


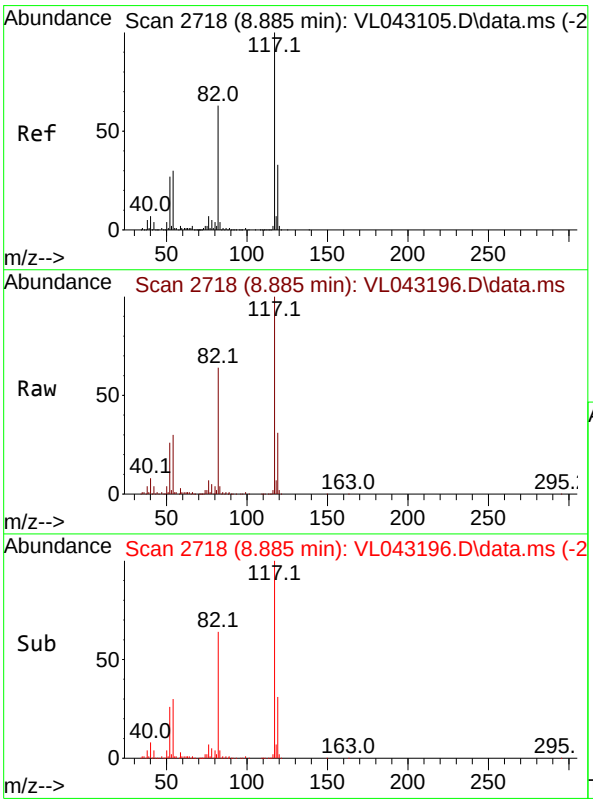
#53
Toluene
Concen: 0.202 ppbv
RT: 6.940 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 91 Resp: 8701

Ion	Ratio	Lower	Upper
91	100		
92	74.5	48.8	73.2#

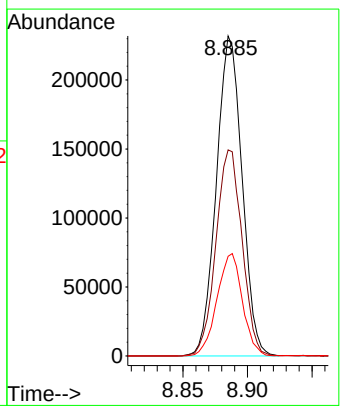


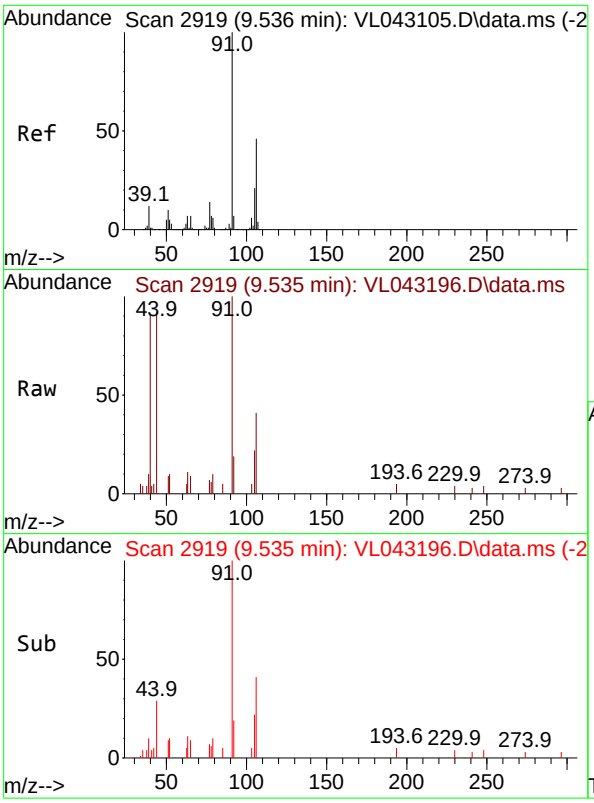


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion:117 Resp: 320935

Ion	Ratio	Lower	Upper
117	100		
82	65.6	53.8	80.8
119	31.8	25.4	38.0



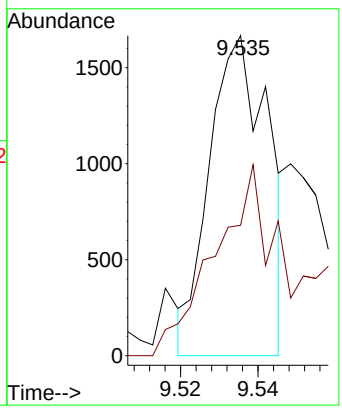


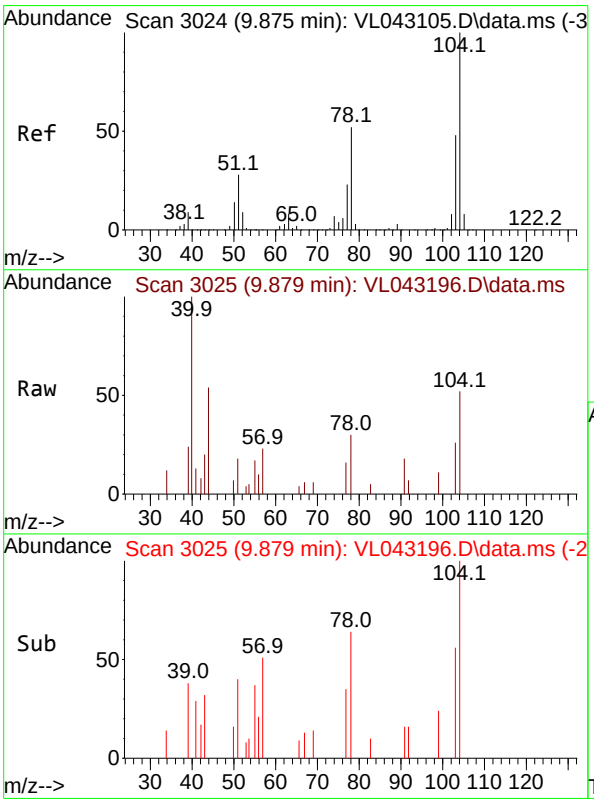
#59
m/p-Xylene
Concen: 0.040 ppbv
RT: 9.535 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 91 Resp: 1751

Ion	Ratio	Lower	Upper
91	100		
106	84.1	38.0	57.0#

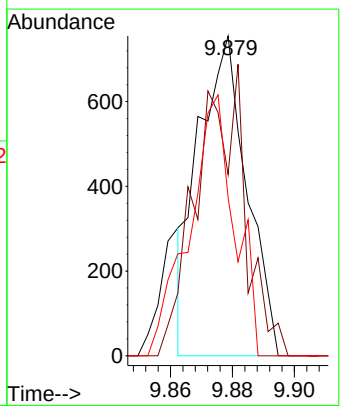


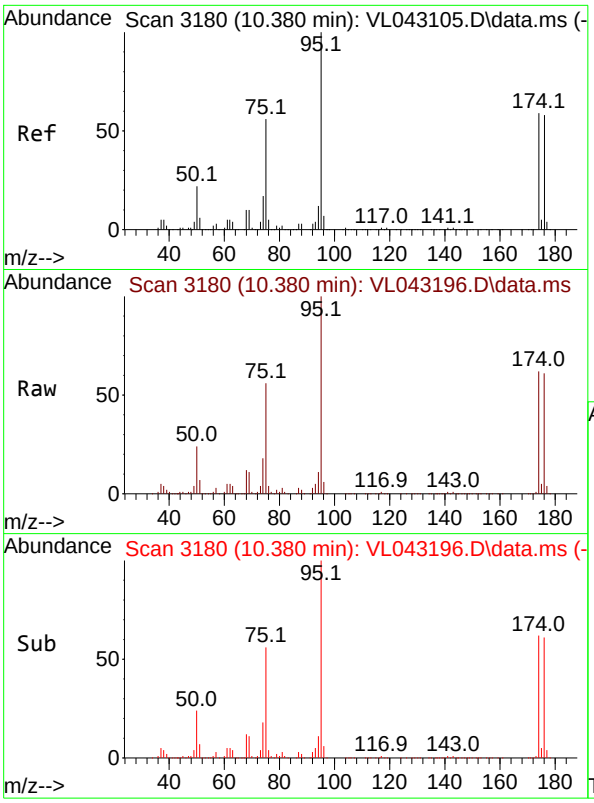


#61
Styrene
Concen: 0.042 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion:104 Resp: 818

Ion	Ratio	Lower	Upper
104	100		
78	89.5	40.2	60.2#
103	76.4	36.9	55.3#



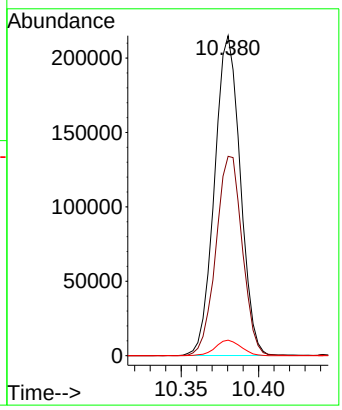


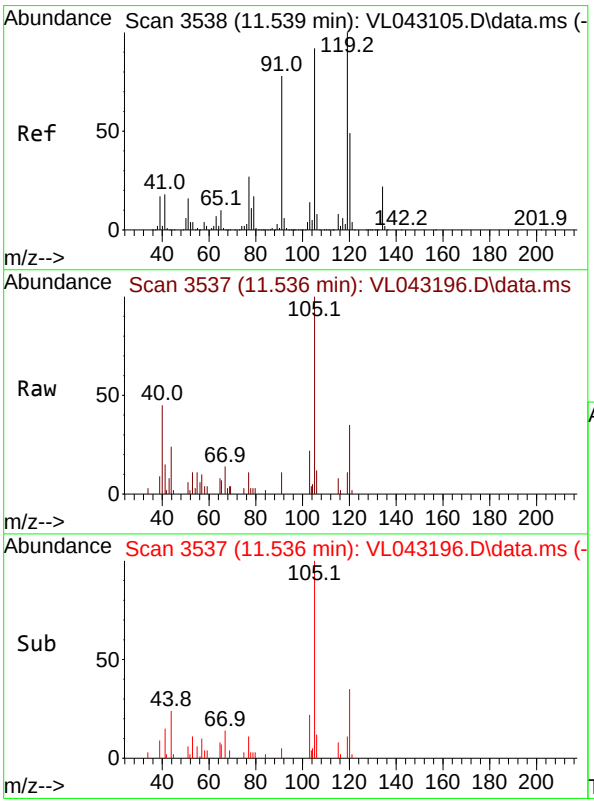
#68
1-Bromo-4-Fluorobenzene
Concen: 9.970 ppbv
RT: 10.380 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 95 Resp: 248695

Ion	Ratio	Lower	Upper
95	100		
174	63.9	48.3	72.5
175	4.8	3.8	5.8

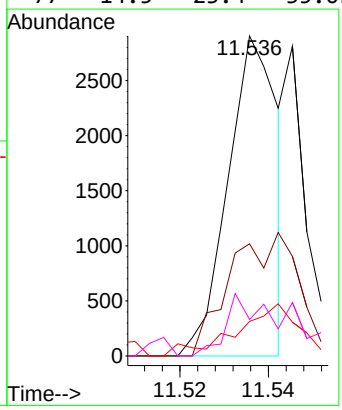




#74
1,2,4-Trimethylbenzene
Concen: 0.045 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion:105 Resp: 2240

Ion	Ratio	Lower	Upper
105	100		
120	35.0	42.8	64.2#
91	7.0	68.3	102.5#
77	14.5	23.4	35.0#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043197.D
Acq On : 13 Nov 2025 13:40
Operator : SY/MD
Sample : Q3627-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Quant Time: Nov 14 04:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

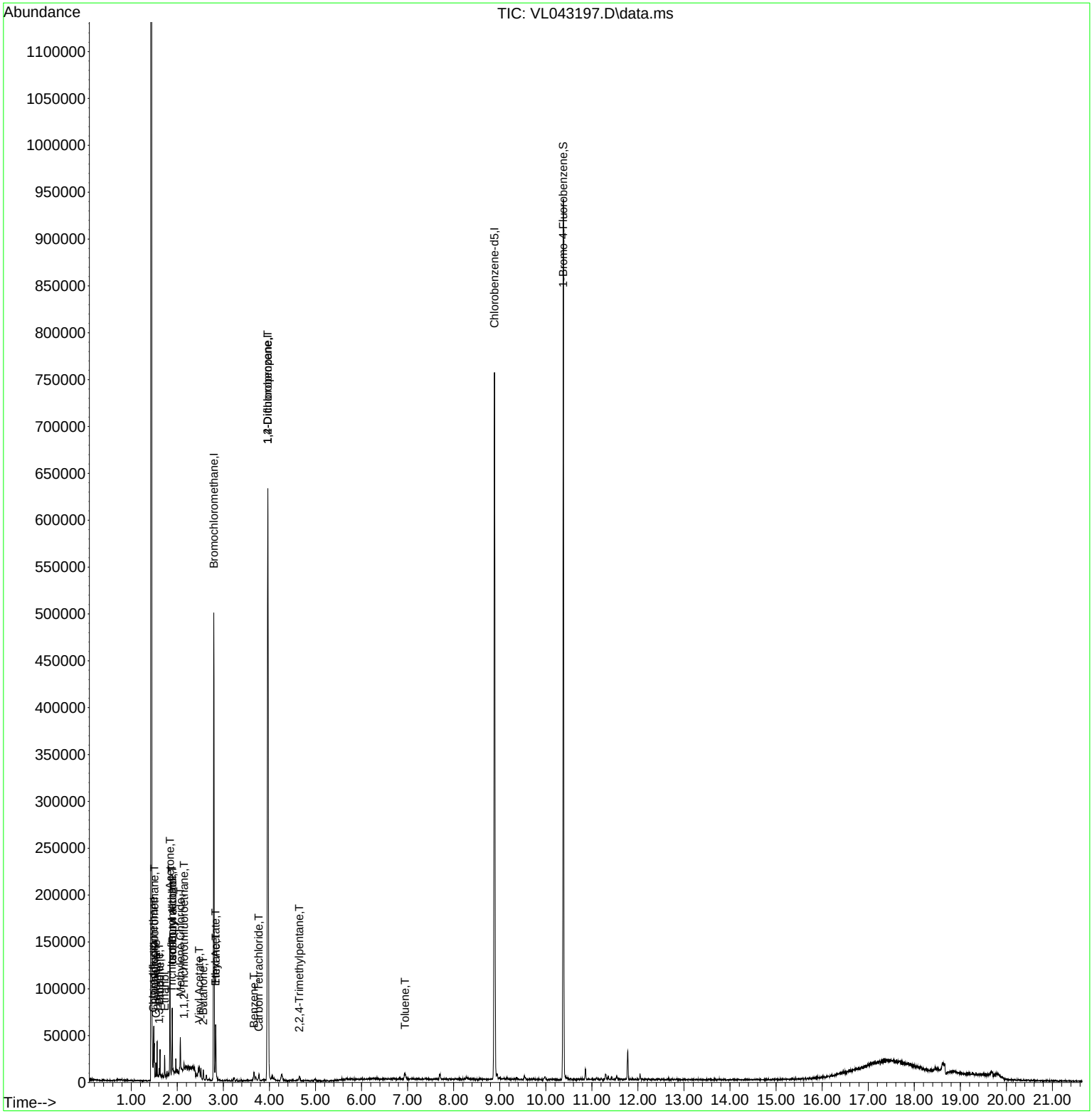
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	141257	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	362075	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	303679	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	226539	9.597	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8904	0.443	ppbv		94
3) Chlorodifluoromethane	1.479	51	8155	0.375	ppbv	#	88
4) Chloromethane	1.534	50	4432	0.557	ppbv		98
9) Propene	1.625	41	2305	0.239	ppbv		84
11) Trichlorofluoromethane	1.884	101	4396	0.224	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.146	101	1204	0.076	ppbv		90
13) Ethanol	1.725	45	7682	2.155	ppbv	#	38
15) Acetone	1.839	43	66035	3.468	ppbv		99
16) 1,3-Butadiene	1.605	39	1172	0.129	ppbv	#	20
17) tert-Butyl alcohol	1.890	59	1006	0.038	ppbv		97
19) Isopropyl Alcohol	1.890	45	27214	2.295	ppbv	#	64
20) Methylene Chloride	2.068	84	5239	0.696	ppbv		93
23) Vinyl Acetate	2.476	43	1578	0.057	ppbv	#	43
25) Ethyl Acetate	2.829	43	9604	0.203	ppbv	#	83
26) Hexane	2.835	57	12272	0.564	ppbv	#	40
34) 2-Butanone	2.564	43	6473	0.266	ppbv		96
35) Carbon Tetrachloride	3.768	117	860	0.033	ppbv	#	52
36) Benzene	3.664	78	4088	0.120	ppbv	#	94
39) 1,2-Dichloropropane	3.965	63	94223	7.558	ppbv	#	23
44) 2,2,4-Trimethylpentane	4.648	57	1732	0.030	ppbv	#	42
53) Toluene	6.946	91	2081	0.051	ppbv	#	20

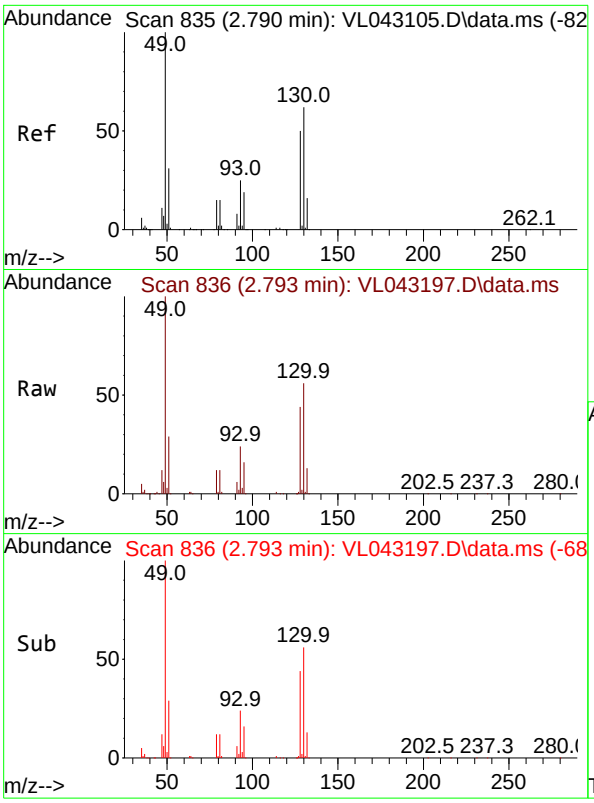
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043197.D
Acq On : 13 Nov 2025 13:40
Operator : SY/MD
Sample : Q3627-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Quant Time: Nov 14 04:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



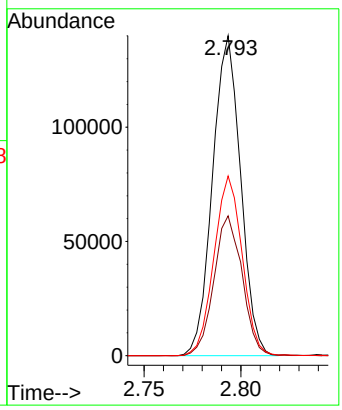


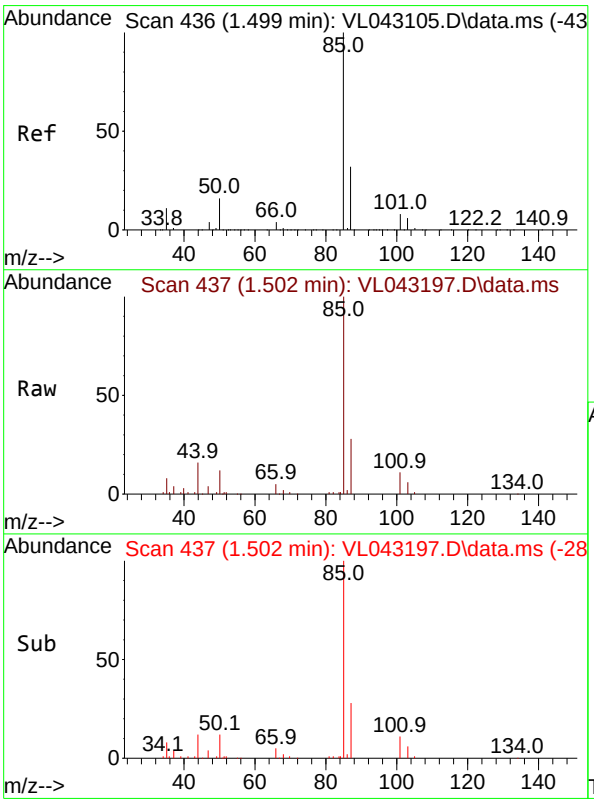
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion: 49 Resp: 141257

Ion	Ratio	Lower	Upper
49	100		
128	43.9	24.4	73.4
130	56.5	31.0	93.0

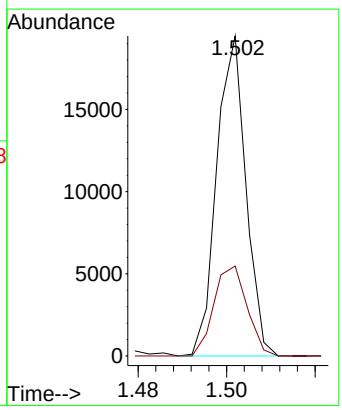


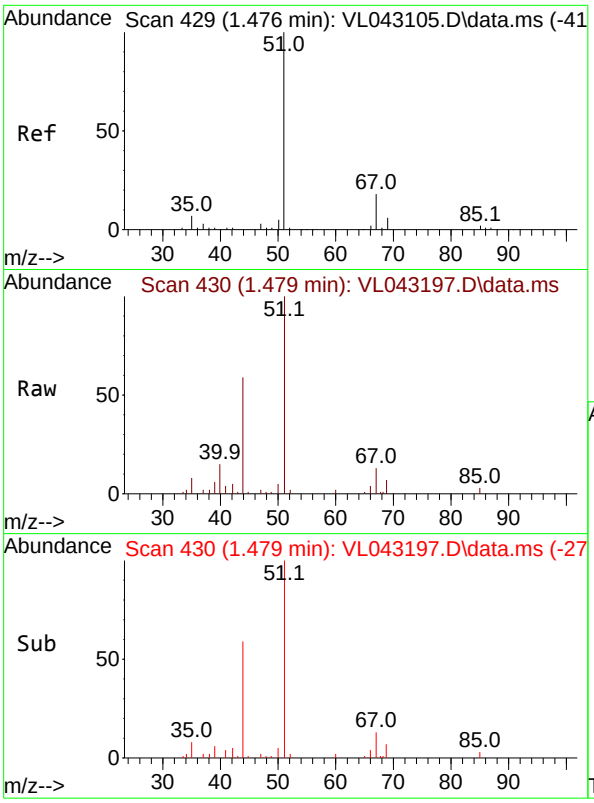


#2
Dichlorodifluoromethane
Concen: 0.443 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 85 Resp: 8904

Ion	Ratio	Lower	Upper
85	100		
87	28.1	25.3	37.9



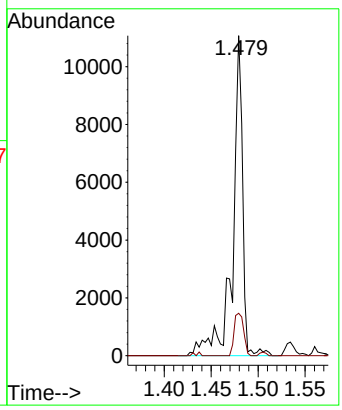


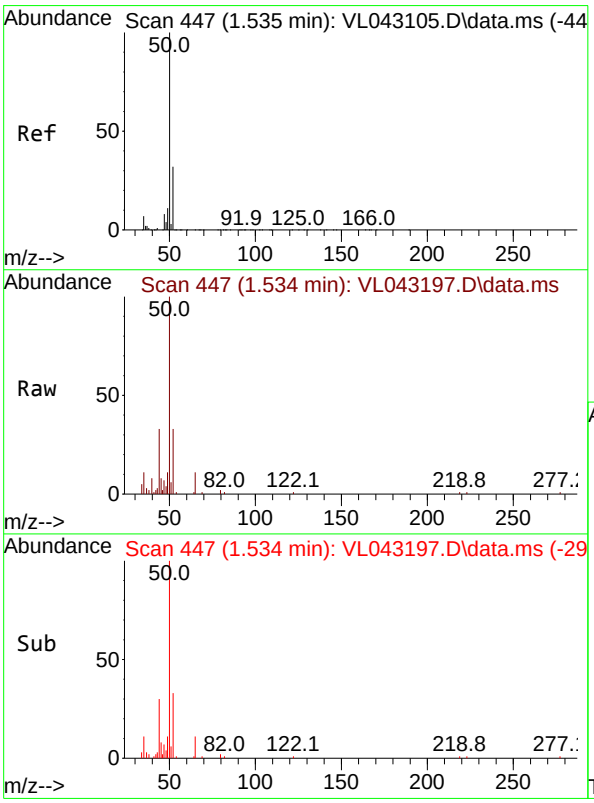
#3
Chlorodifluoromethane
Concen: 0.375 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion: 51 Resp: 8155

Ion	Ratio	Lower	Upper
51	100		
67	13.3	15.1	22.7#

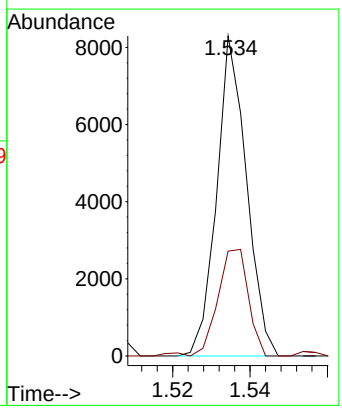


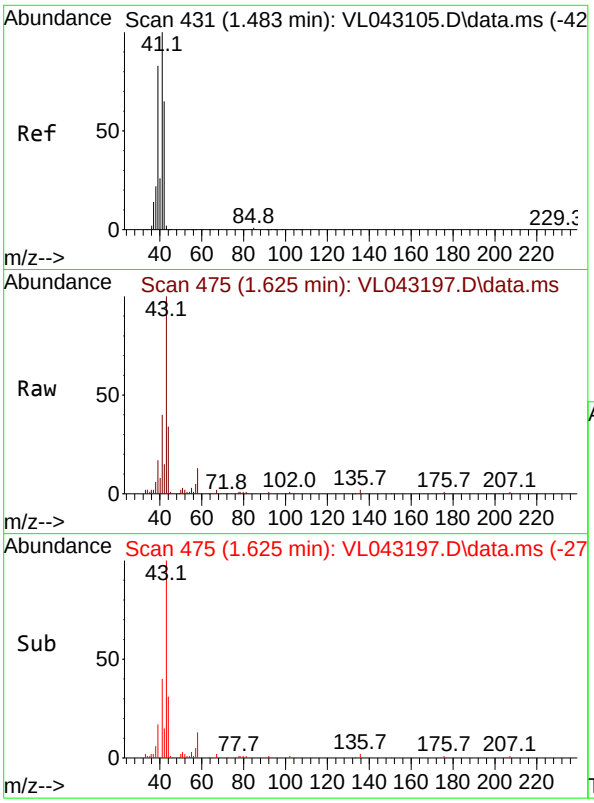


#4
Chloromethane
Concen: 0.557 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 50 Resp: 4432

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.2	37.8



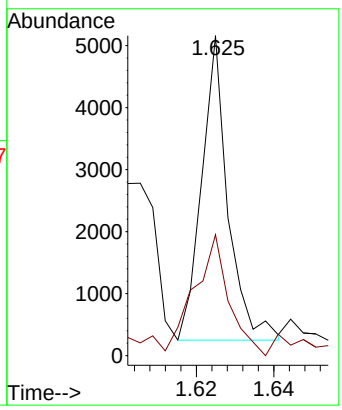


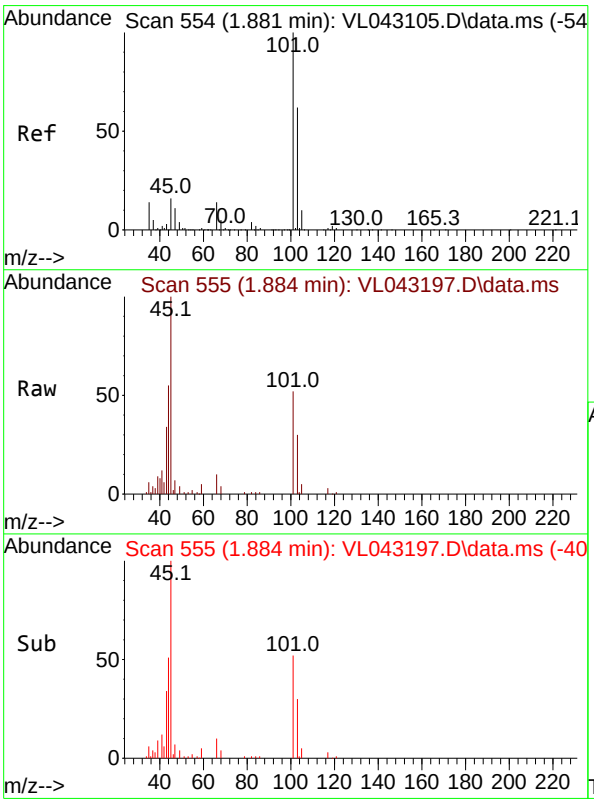
#9
Propene
Concen: 0.239 ppbv
RT: 1.625 min Scan# 4
Delta R.T. 0.142 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion: 41 Resp: 2305

Ion	Ratio	Lower	Upper
41	100		
42	81.9	55.1	82.7

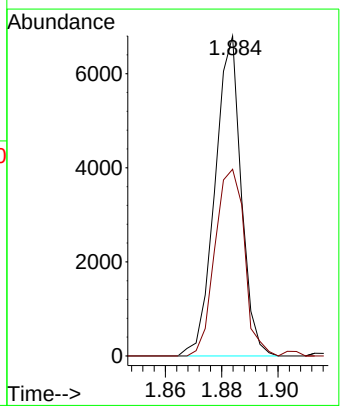


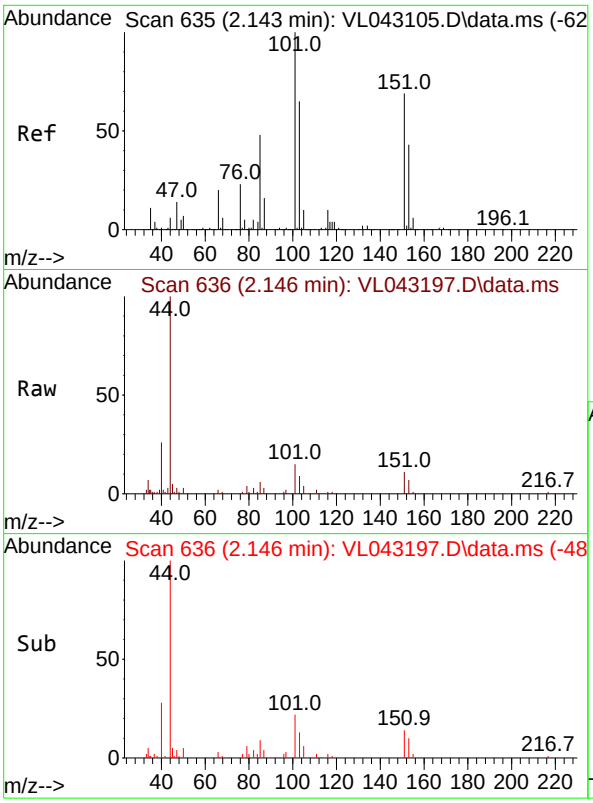


#11
Trichlorofluoromethane
Concen: 0.224 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion:101 Resp: 4396

Ion	Ratio	Lower	Upper
101	100		
103	58.3	49.3	73.9



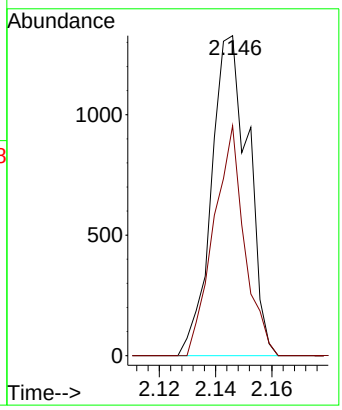


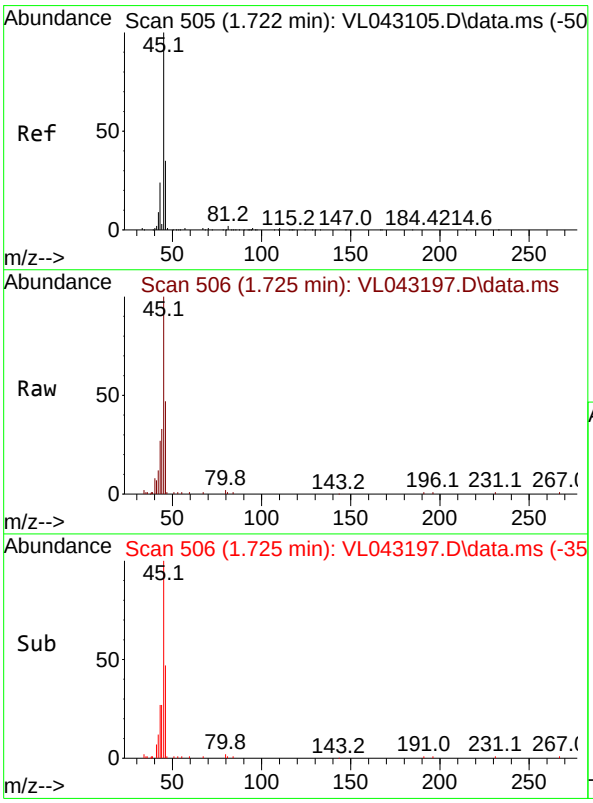
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.076 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion:101 Resp: 1204

Ion	Ratio	Lower	Upper
101	100		
151	60.4	54.7	82.1

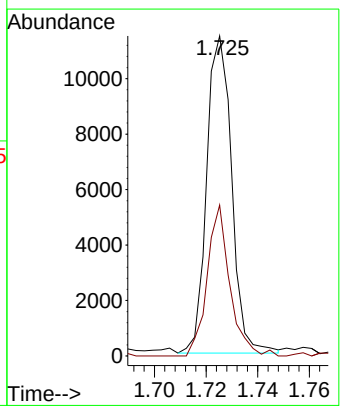


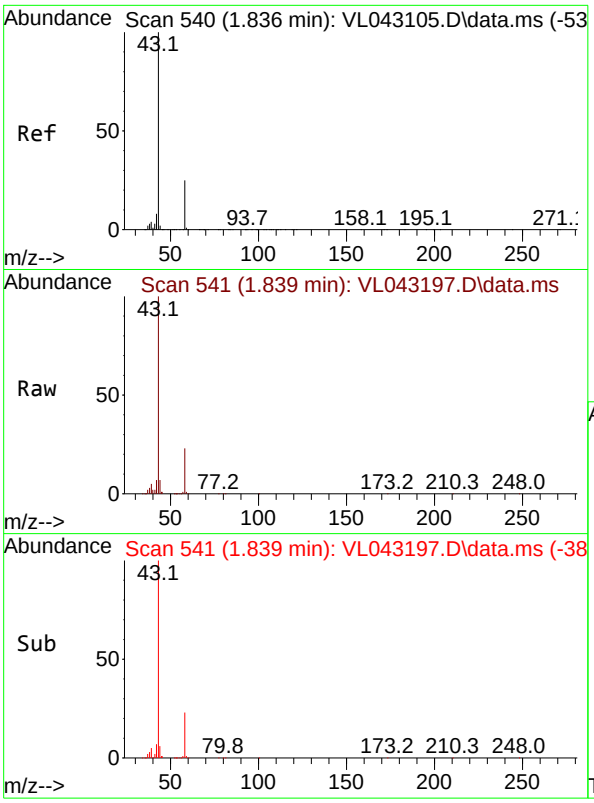


#13
Ethanol
Concen: 2.155 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 45 Resp: 7682

Ion	Ratio	Lower	Upper
45	100		
46	0.0	14.7	58.9#



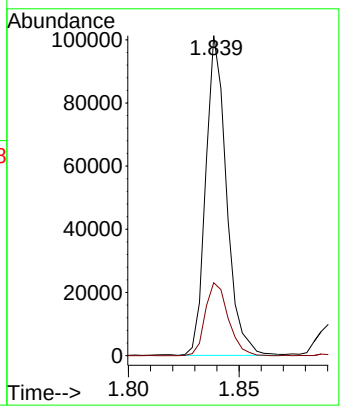


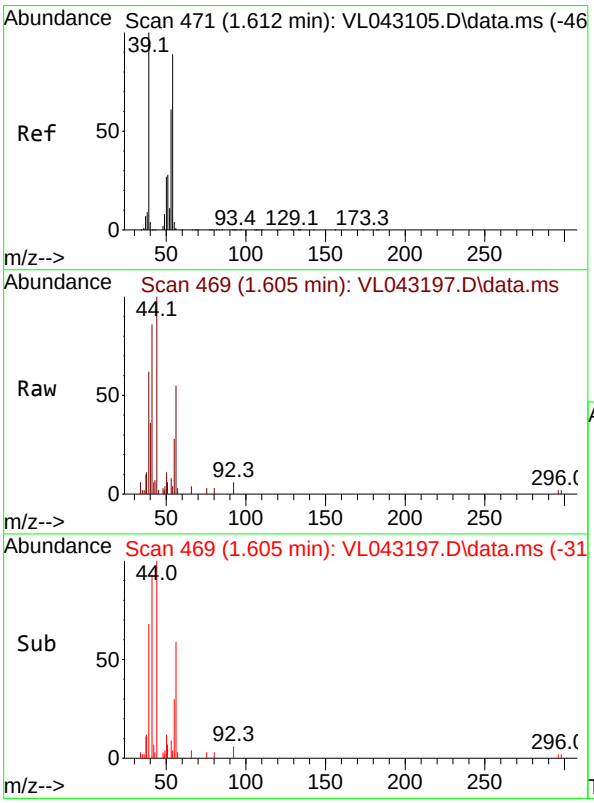
#15
Acetone
Concen: 3.468 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion: 43 Resp: 66035

Ion	Ratio	Lower	Upper
43	100		
58	25.3	20.8	31.2

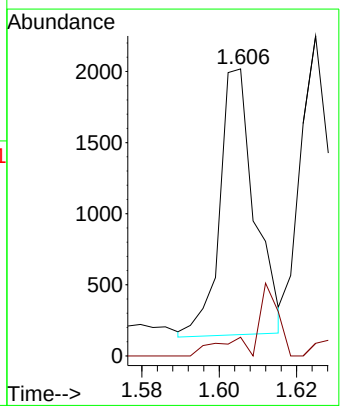


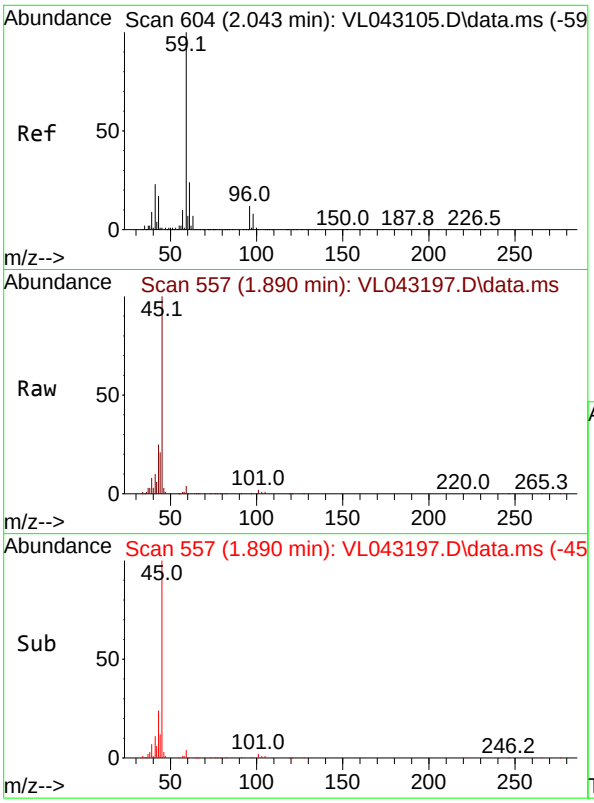


#16
1,3-Butadiene
Concen: 0.129 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.007 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 39 Resp: 1172

Ion	Ratio	Lower	Upper
39	100		
54	6.2	59.0	88.4#



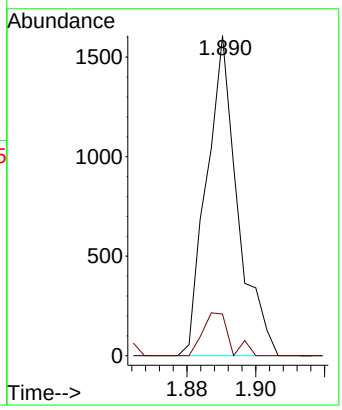


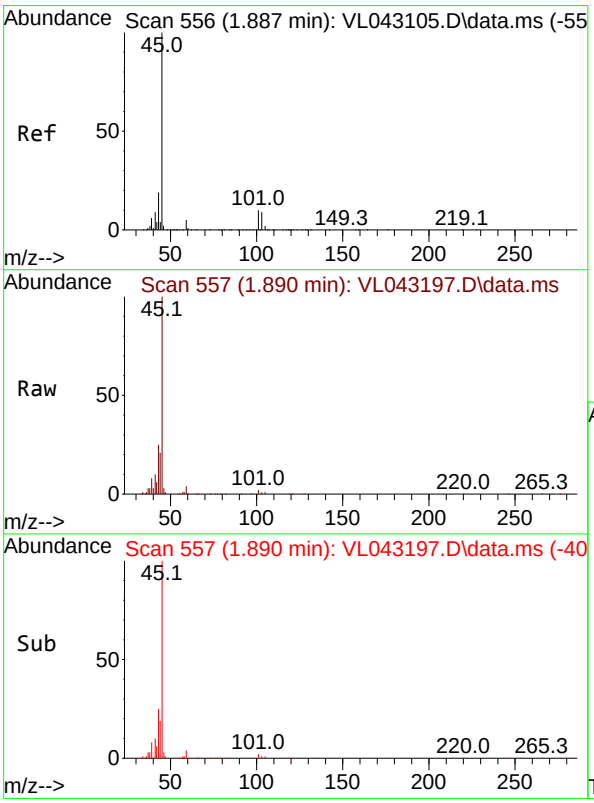
#17
tert-Butyl alcohol
Concen: 0.038 ppbv
RT: 1.890 min Scan# 5
Delta R.T. -0.152 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion: 59 Resp: 1006

Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.2	12.4

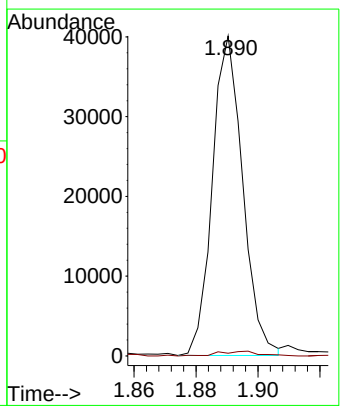


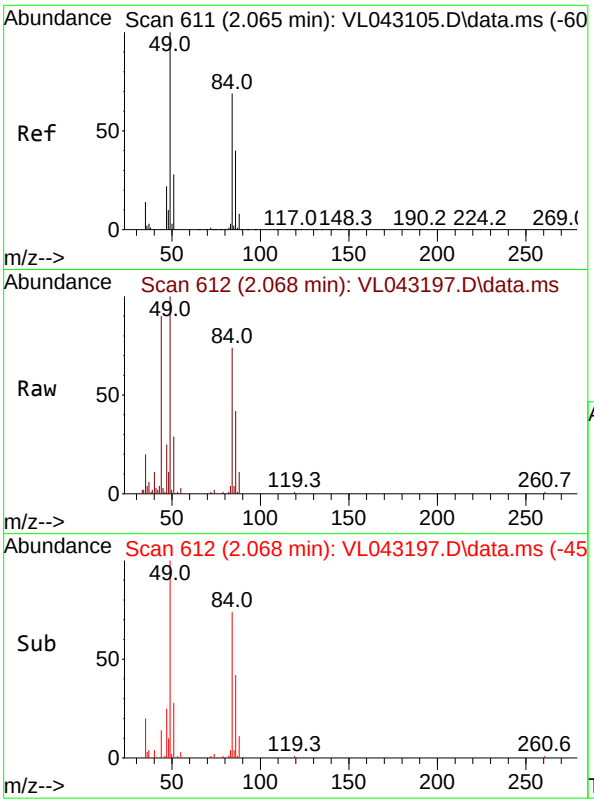


#19
Isopropyl Alcohol
Concen: 2.295 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 45 Resp: 27214

Ion	Ratio	Lower	Upper
45	100		
58	61.3	31.3	46.9#



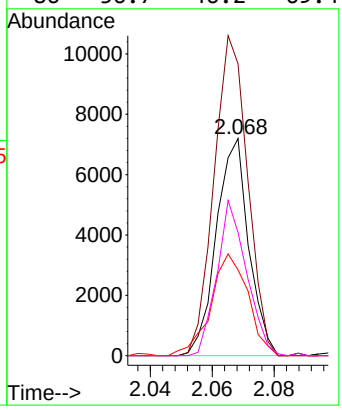


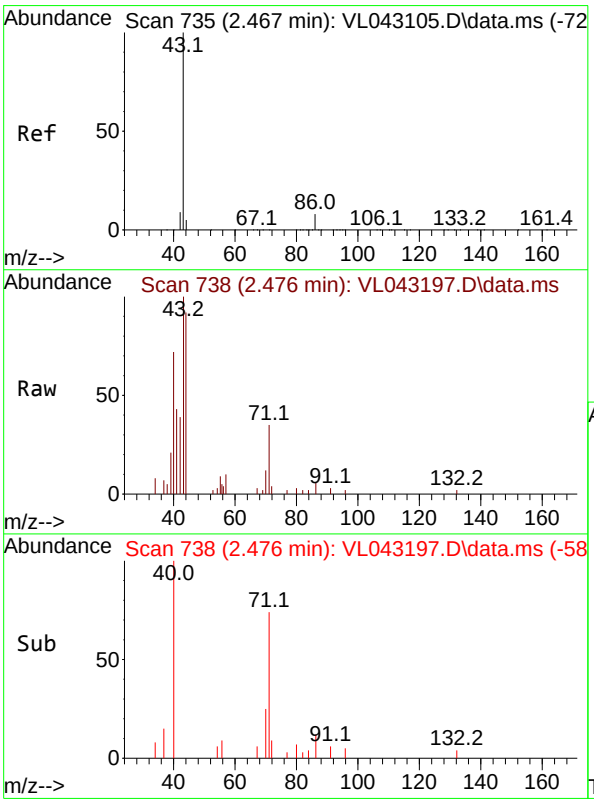
#20
Methylene Chloride
Concen: 0.696 ppbv
RT: 2.068 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion: 84 Resp: 5239

Ion	Ratio	Lower	Upper
84	100		
49	134.4	116.6	175.0
51	39.5	34.8	52.2
86	56.7	46.2	69.4

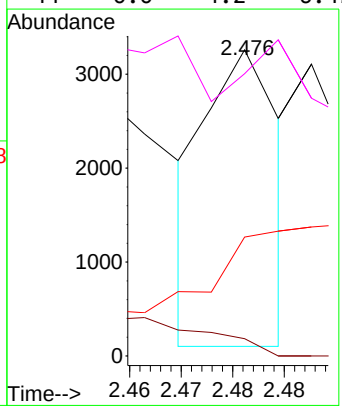


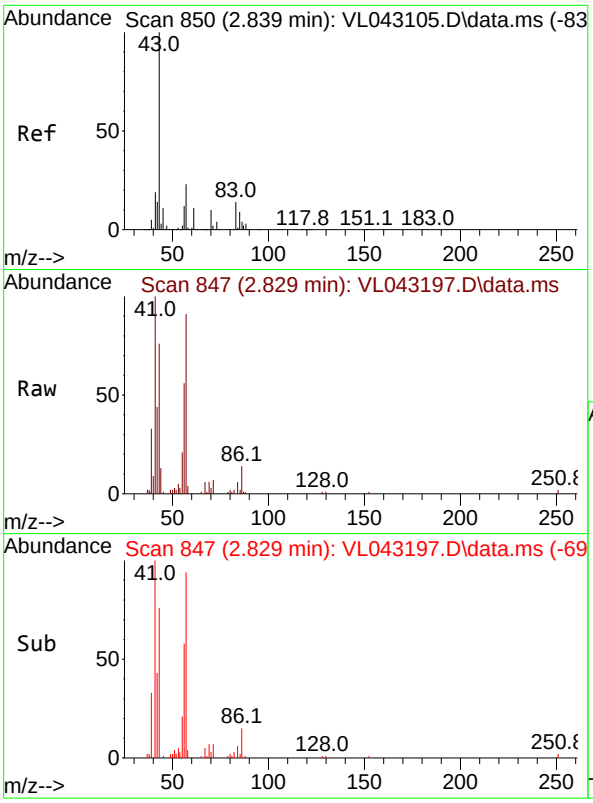


#23
Vinyl Acetate
Concen: 0.057 ppbv
RT: 2.476 min Scan# 738
Delta R.T. 0.009 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 43 Resp: 1578

Ion	Ratio	Lower	Upper
43	100		
86	15.6	6.2	9.2#
42	49.3	7.6	11.4#
44	0.0	4.2	6.4#



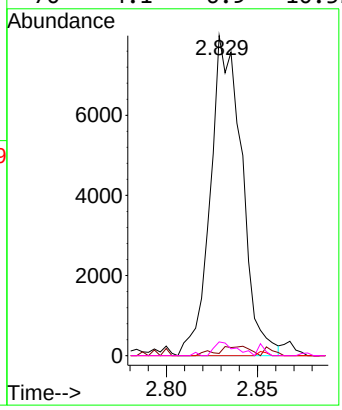


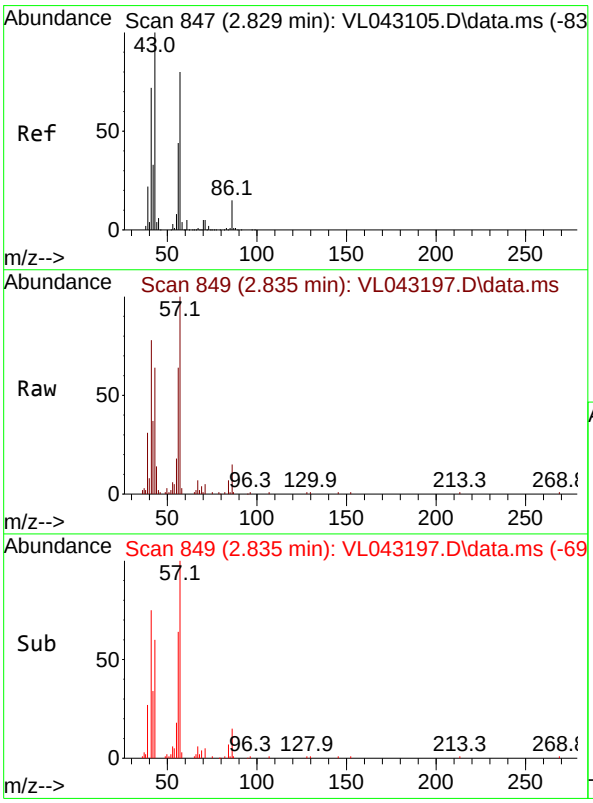
#25
Ethyl Acetate
Concen: 0.203 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion: 43 Resp: 9604

Ion	Ratio	Lower	Upper
43	100		
45	3.8	7.8	11.8#
61	0.4	7.0	10.6#
70	4.1	6.9	10.3#

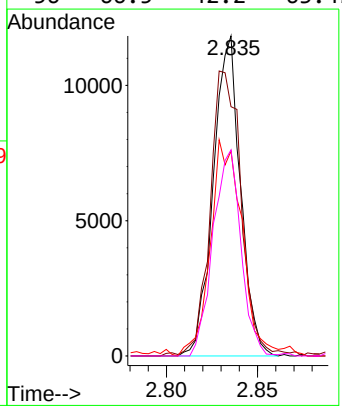


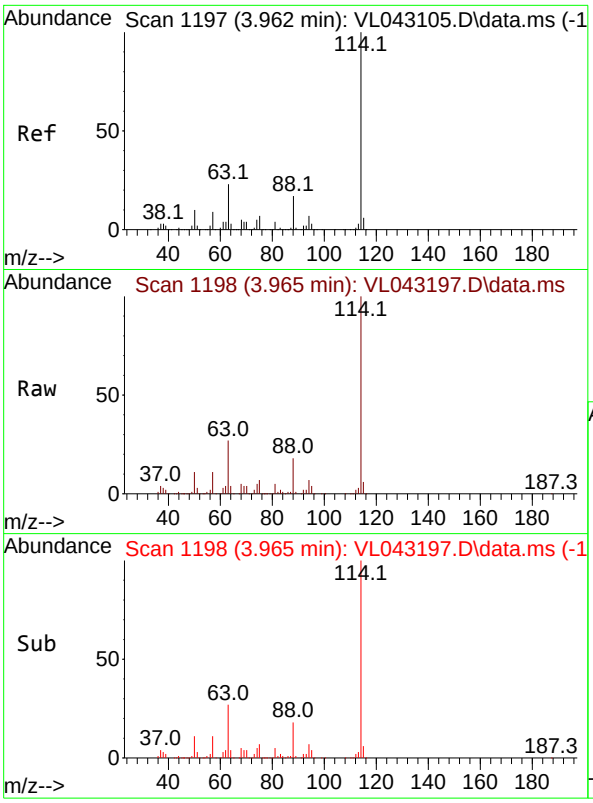


#26
Hexane
Concen: 0.564 ppbv
RT: 2.835 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 57 Resp: 12272

Ion	Ratio	Lower	Upper
57	100		
41	101.7	71.4	107.0
43	80.1	178.5	267.7#
56	66.5	42.2	63.4#



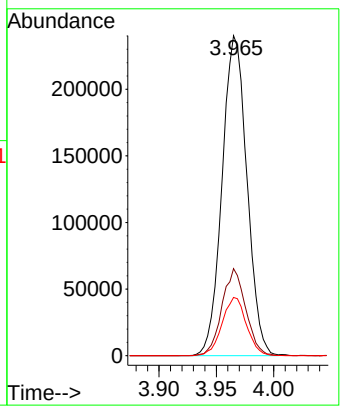


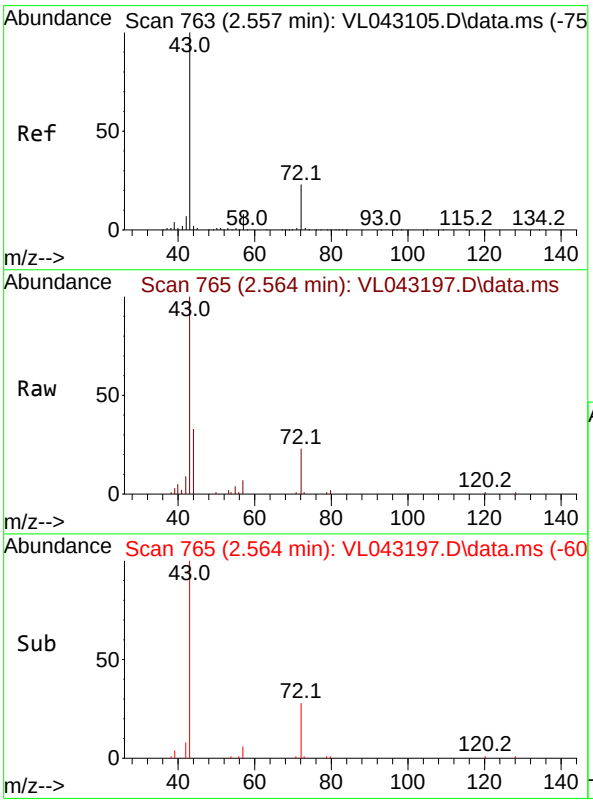
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion:114 Resp: 362075

Ion	Ratio	Lower	Upper
114	100		
63	26.1	19.3	28.9
88	17.8	13.9	20.9

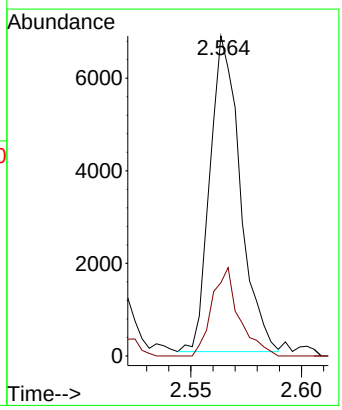


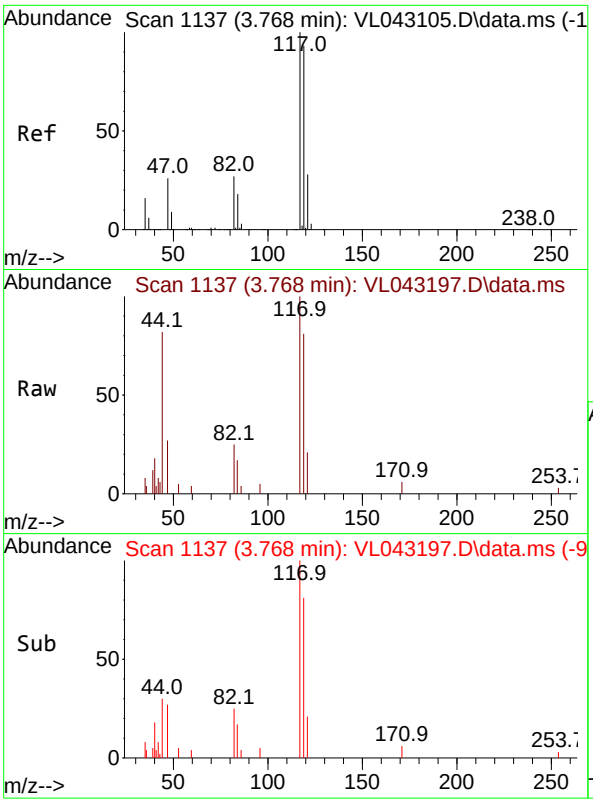


#34
2-Butanone
Concen: 0.266 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 43 Resp: 6473

Ion	Ratio	Lower	Upper
43	100		
72	25.2	18.4	27.6



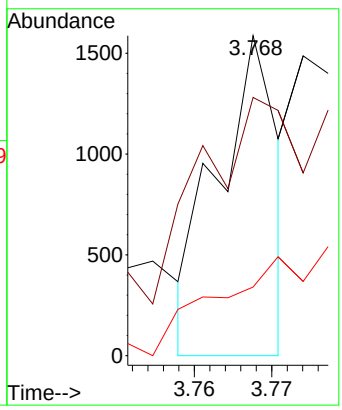


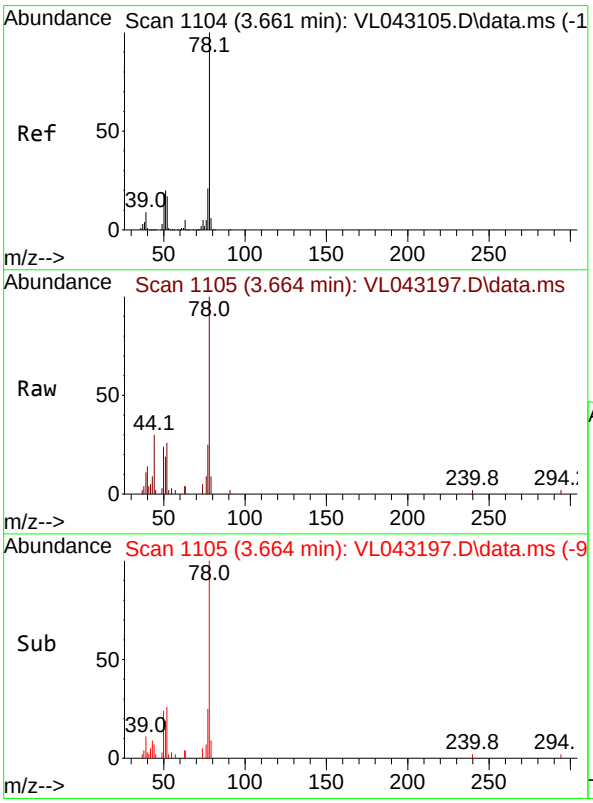
#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 3.768 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion:117 Resp: 860

Ion	Ratio	Lower	Upper
117	100		
119	43.4	74.1	111.1#
121	9.1	22.2	33.2#

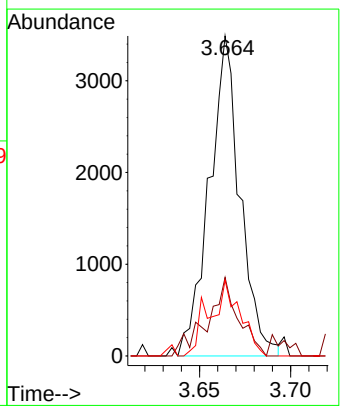


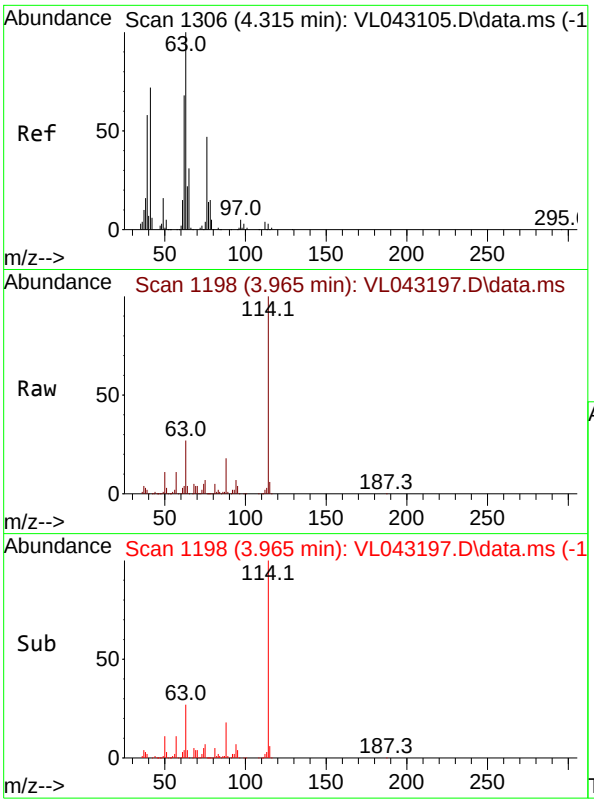


#36
Benzene
Concen: 0.120 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 78 Resp: 4088

Ion	Ratio	Lower	Upper
78	100		
77	21.5	17.0	25.6
50	23.7	14.6	22.0#



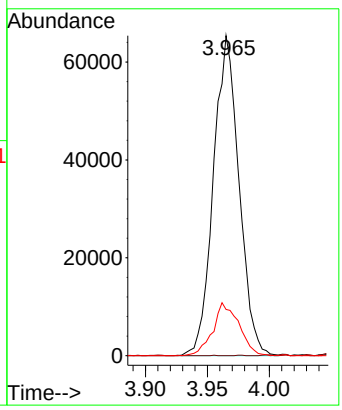


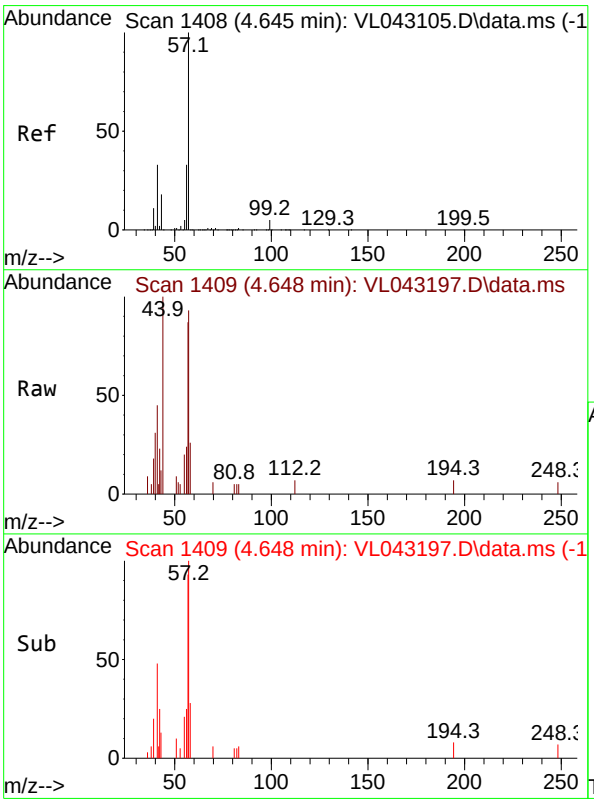
#39
1,2-Dichloropropane
Concen: 7.558 ppbv
RT: 3.965 min Scan# 1
Delta R.T. -0.350 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion: 63 Resp: 94223

Ion	Ratio	Lower	Upper
63	100		
41	0.0	58.0	87.0#
62	14.5	54.7	82.1#

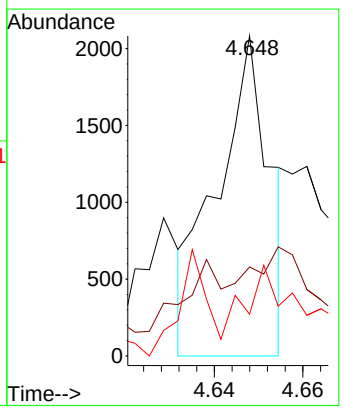


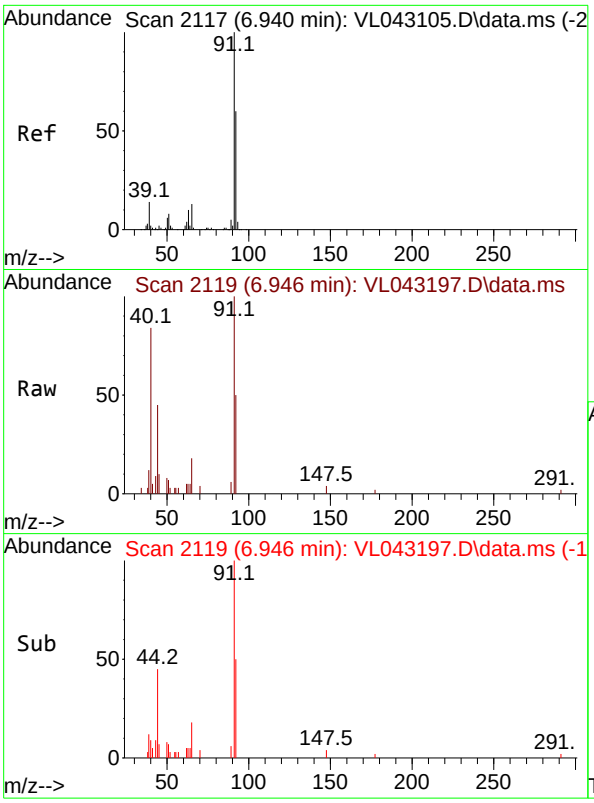


#44
2,2,4-Trimethylpentane
Concen: 0.030 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.003 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion: 57 Resp: 1732

Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.3	39.5#
56	0.0	25.9	38.9#



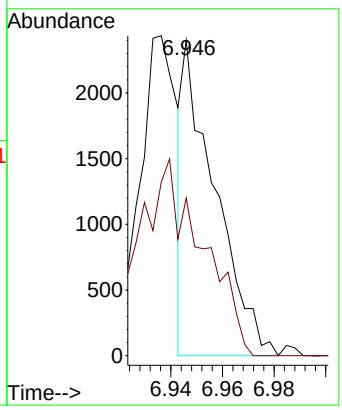


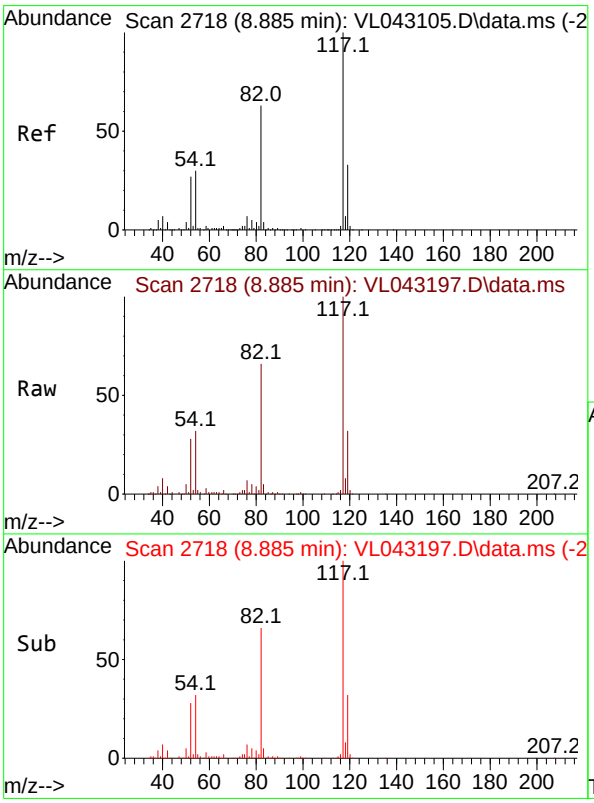
#53
Toluene
Concen: 0.051 ppbv
RT: 6.946 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion: 91 Resp: 2081

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.8	73.2#

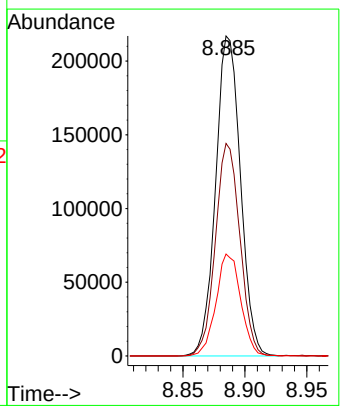


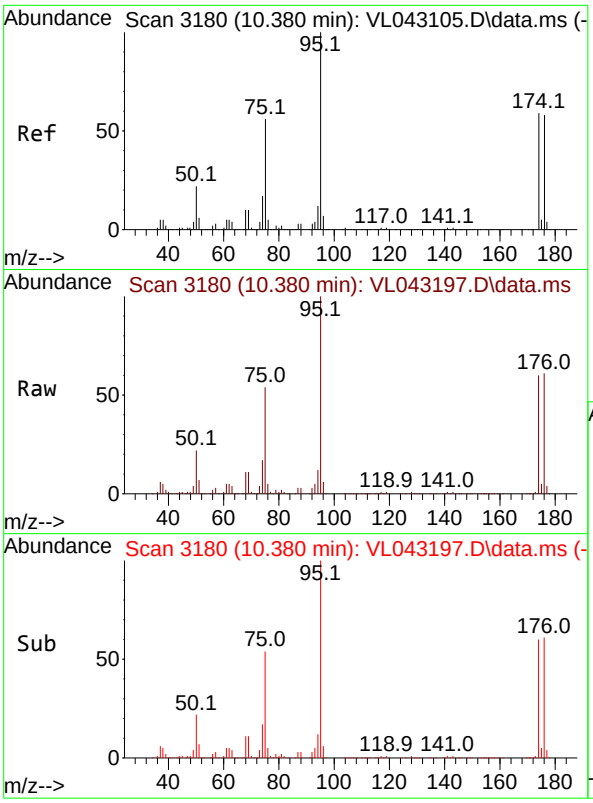


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Tgt Ion:117 Resp: 303679

Ion	Ratio	Lower	Upper
117	100		
82	65.4	53.8	80.8
119	31.8	25.4	38.0



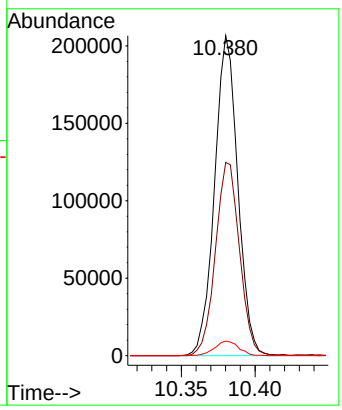


#68
1-Bromo-4-Fluorobenzene
Concen: 9.597 ppbv
RT: 10.380 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043197.D
Acq: 13 Nov 2025 13:40

Instrument :
MSVOA_L
ClientSampleId :
AA-East

Tgt Ion: 95 Resp: 226539

Ion	Ratio	Lower	Upper
95	100		
174	62.7	48.3	72.5
175	4.8	3.8	5.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043199.D
Acq On : 13 Nov 2025 14:47
Operator : SY/MD
Sample : Q3627-05 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Quant Time: Nov 14 04:40:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

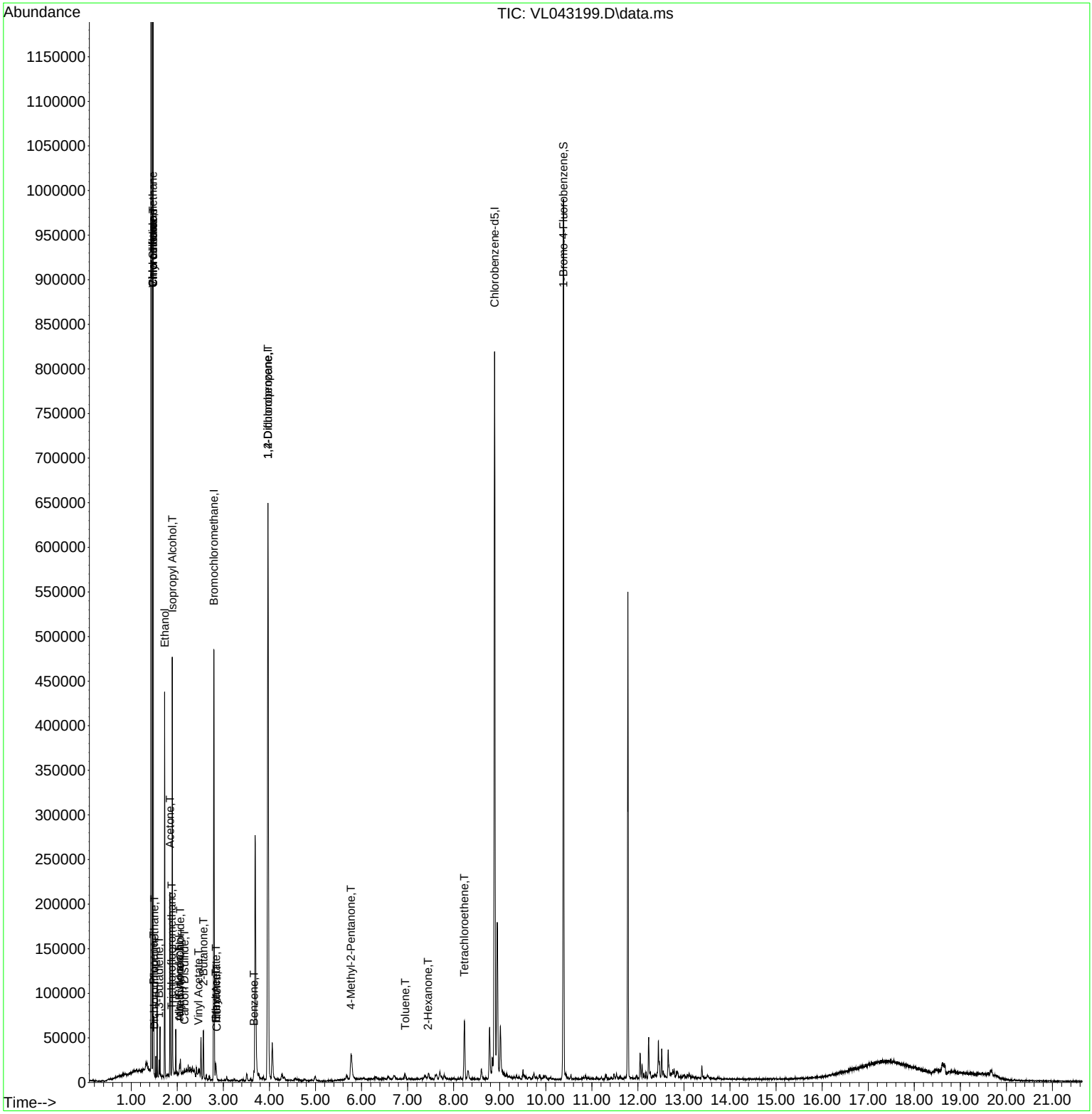
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	140657	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	374439	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	343535	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	234436	8.780	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 87.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	1137	0.057	ppbv	#	75
3) Chlorodifluoromethane	1.470	51	2819765	130.332	ppbv	#	58
4) Chloromethane	1.473	50	24729	3.122	ppbv	#	1
5) Vinyl Chloride	1.470	62	7403	0.953	ppbv	#	1
7) Chloroethane	1.470	64	337521	106.247	ppbv		99
9) Propene	1.486	41	8148	0.849	ppbv		98
11) Trichlorofluoromethane	1.881	101	811	0.041	ppbv	#	82
13) Ethanol	1.725	45	139693	39.357	ppbv		97
15) Acetone	1.839	43	89656	4.729	ppbv		93
16) 1,3-Butadiene	1.602	39	2295	0.254	ppbv	#	34
17) tert-Butyl alcohol	2.049	59	4553	0.175	ppbv		99
19) Isopropyl Alcohol	1.890	45	190045	16.095	ppbv	#	38
20) Methylene Chloride	2.065	84	2288	0.305	ppbv	#	72
21) Allyl Chloride	2.046	41	1457	0.104	ppbv	#	64
23) Vinyl Acetate	2.460	43	3027	0.109	ppbv	#	78
25) Ethyl Acetate	2.842	43	7121	0.151	ppbv	#	94
26) Hexane	2.832	57	2858	0.132	ppbv	#	59
27) Carbon Disulfide	2.156	76	2364	0.119	ppbv	#	1
29) Chloroform	2.858	83	1196	0.038	ppbv		97
34) 2-Butanone	2.567	43	35547	1.412	ppbv		98
36) Benzene	3.667	78	5825	0.165	ppbv	#	82
39) 1,2-Dichloropropane	3.968	63	95652	7.419	ppbv	#	25
50) 4-Methyl-2-Pentanone	5.771	43	14009	0.403	ppbv	#	38
51) 2-Hexanone	7.445	43	1335	0.051	ppbv	#	27
52) Tetrachloroethene	8.231	164	11745	0.924	ppbv		94
53) Toluene	6.949	91	3246	0.078	ppbv	#	59

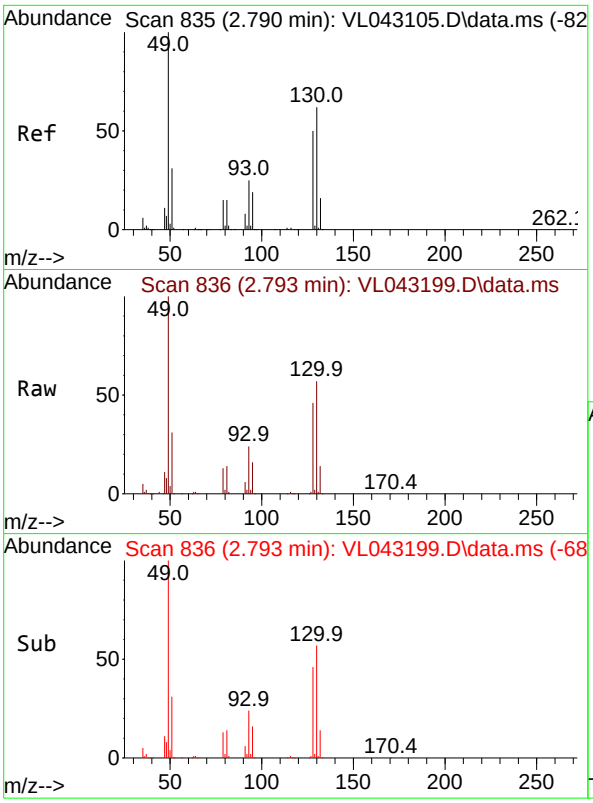
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043199.D
Acq On : 13 Nov 2025 14:47
Operator : SY/MD
Sample : Q3627-05 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Quant Time: Nov 14 04:40:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



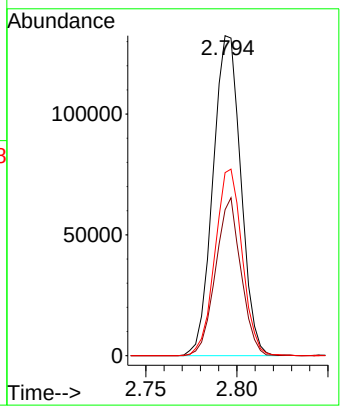


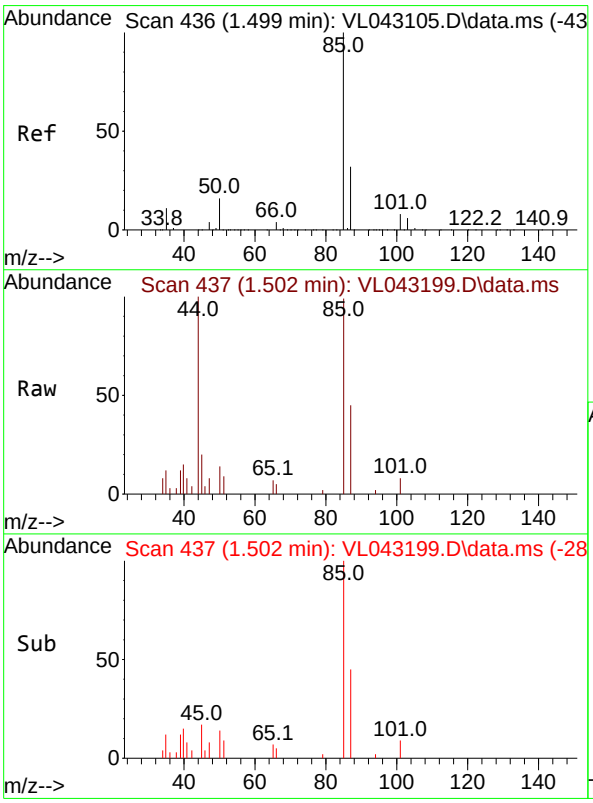
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 49 Resp: 140657

Ion	Ratio	Lower	Upper
49	100		
128	45.0	24.4	73.4
130	57.0	31.0	93.0

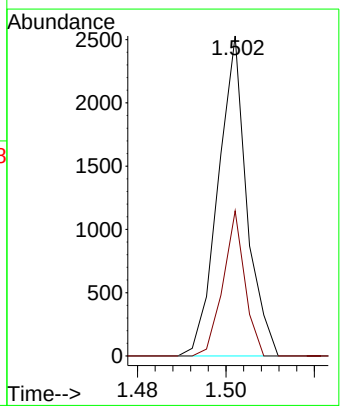


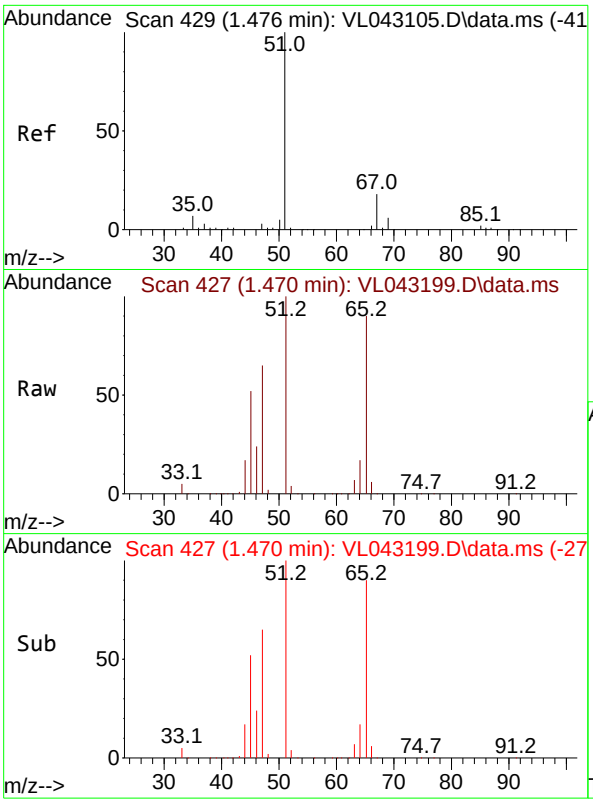


#2
Dichlorodifluoromethane
Concen: 0.057 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 85 Resp: 1137

Ion	Ratio	Lower	Upper
85	100		
87	45.4	25.3	37.9#



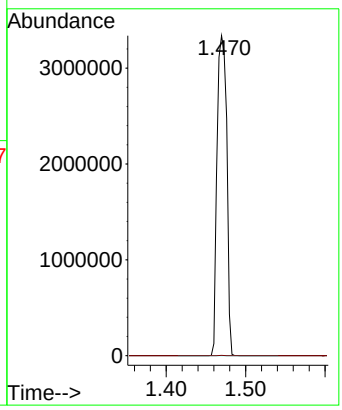


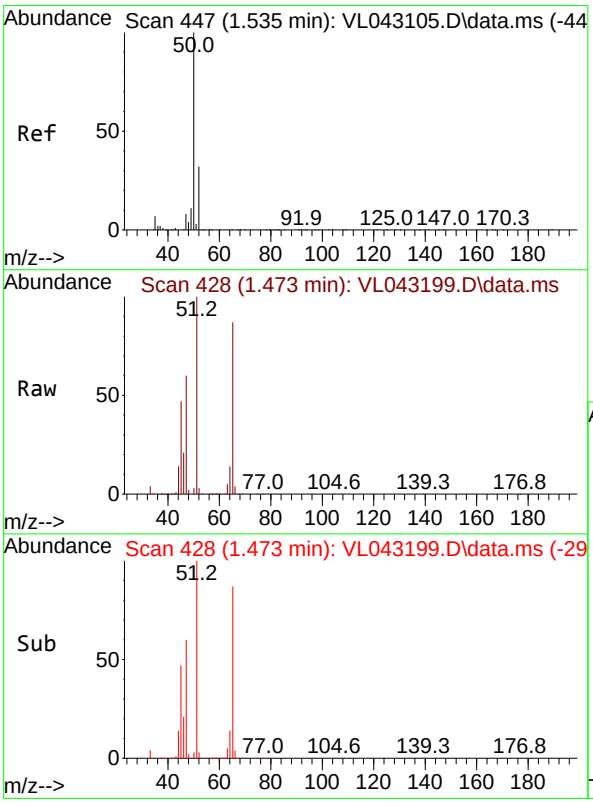
#3
Chlorodifluoromethane
Concen: 130.332 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 51 Resp: 2819765

Ion	Ratio	Lower	Upper
51	100		
67	0.1	15.1	22.7#

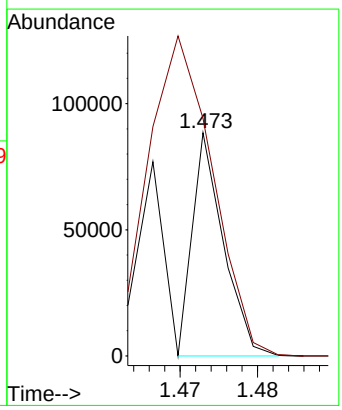


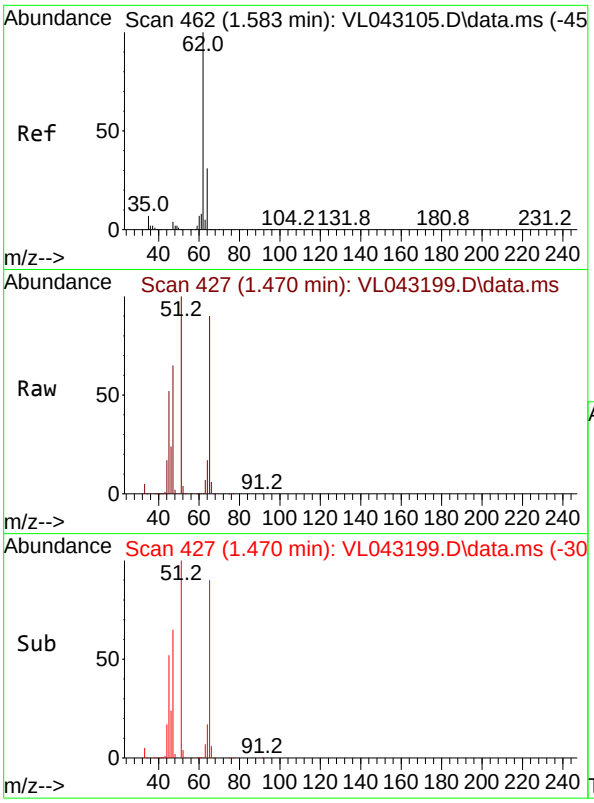


#4
Chloromethane
Concen: 3.122 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.062 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 50 Resp: 24729

Ion	Ratio	Lower	Upper
50	100		
52	106.0	25.2	37.8#



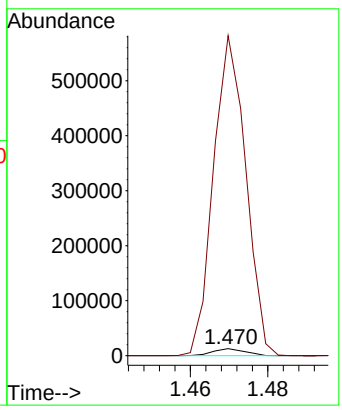


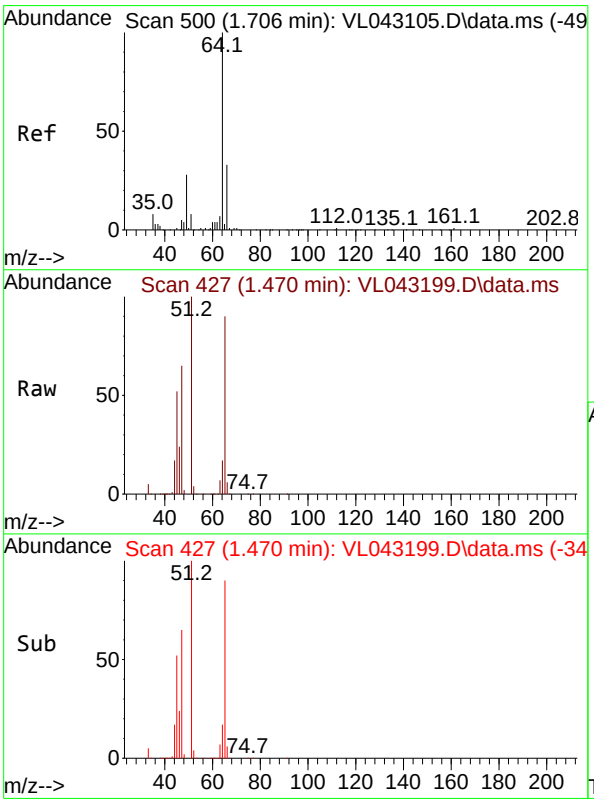
#5
Vinyl Chloride
Concen: 0.953 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.113 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 62 Resp: 7403

Ion	Ratio	Lower	Upper
62	100		
64	4538.0	24.6	36.8#

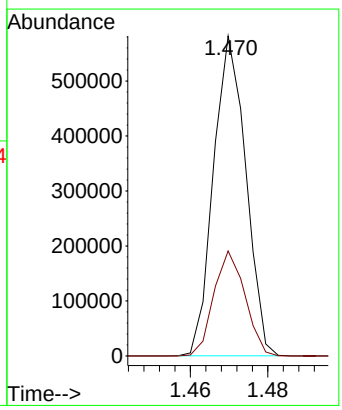


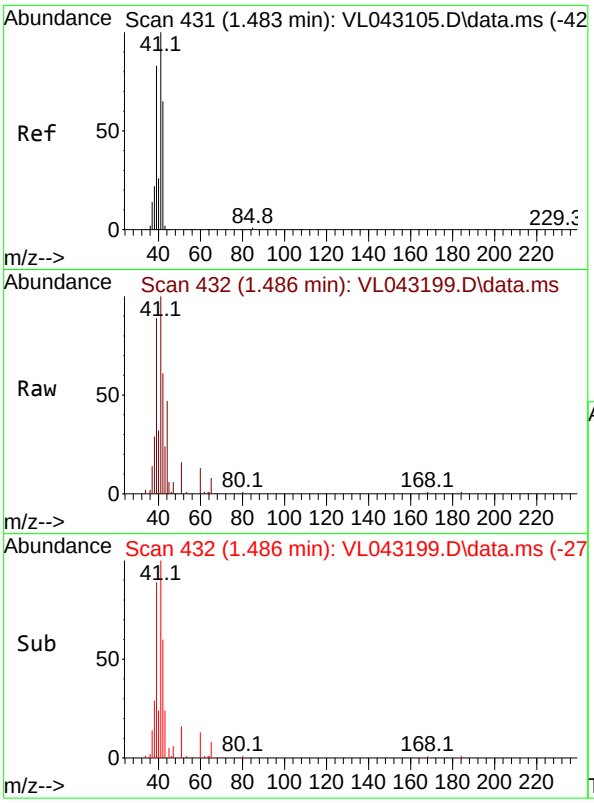


#7
Chloroethane
Concen: 106.247 ppbv
RT: 1.470 min Scan# 427
Delta R.T. -0.236 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 64 Resp: 337521

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.0	39.0



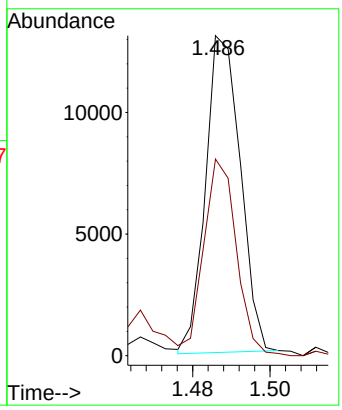


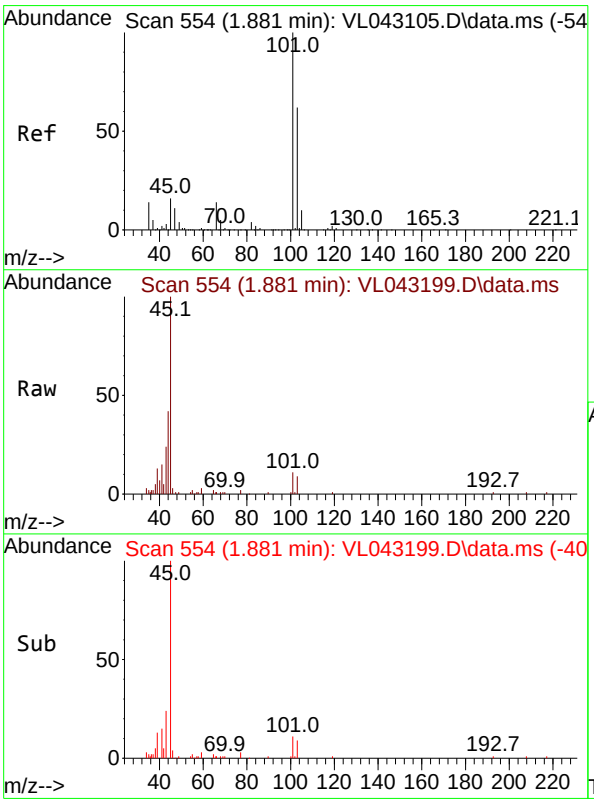
#9
Propene
Concen: 0.849 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 41 Resp: 8148

Ion	Ratio	Lower	Upper
41	100		
42	70.7	55.1	82.7

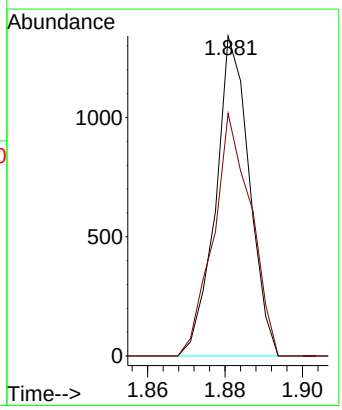


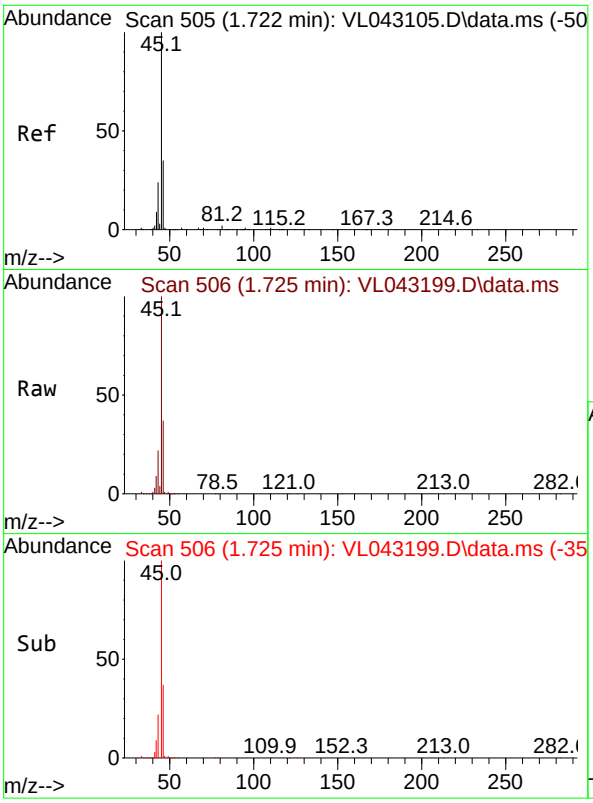


#11
Trichlorofluoromethane
Concen: 0.041 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion:101 Resp: 811

Ion	Ratio	Lower	Upper
101	100		
103	75.8	49.3	73.9#



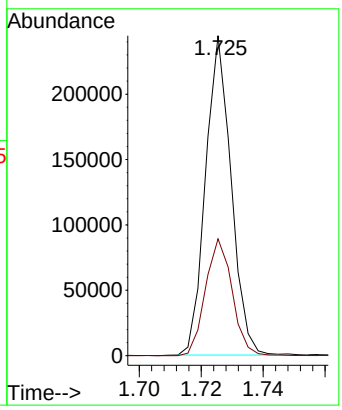


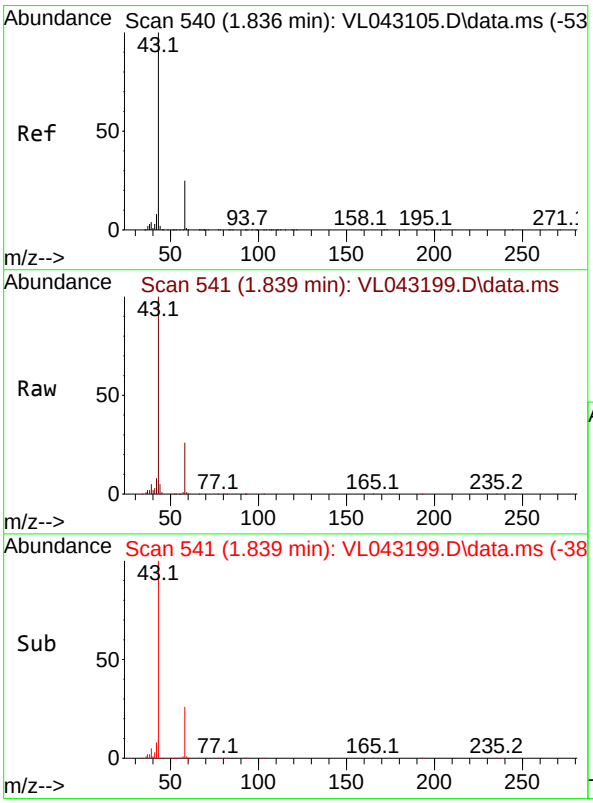
#13
Ethanol
Concen: 39.357 ppbv
RT: 1.725 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 45 Resp: 139693

Ion	Ratio	Lower	Upper
45	100		
46	38.4	14.7	58.9

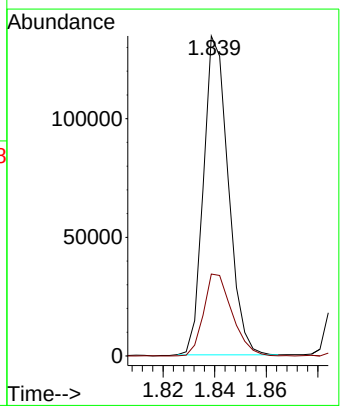


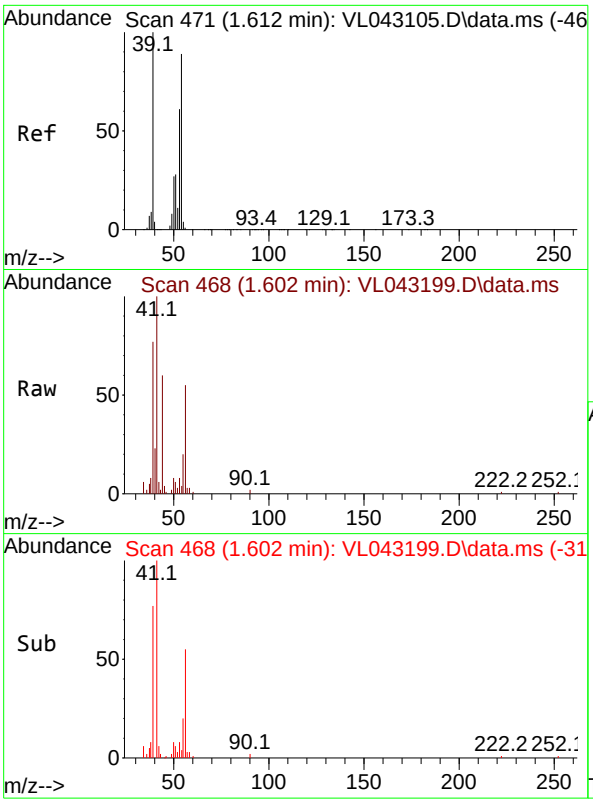


#15
Acetone
Concen: 4.729 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 43 Resp: 89656

Ion	Ratio	Lower	Upper
43	100		
58	29.6	20.8	31.2



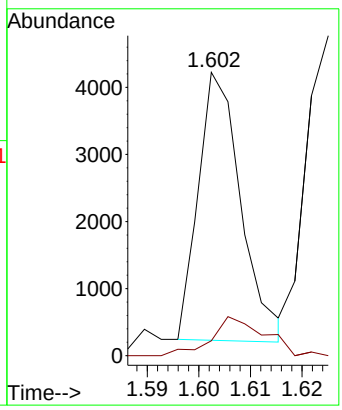


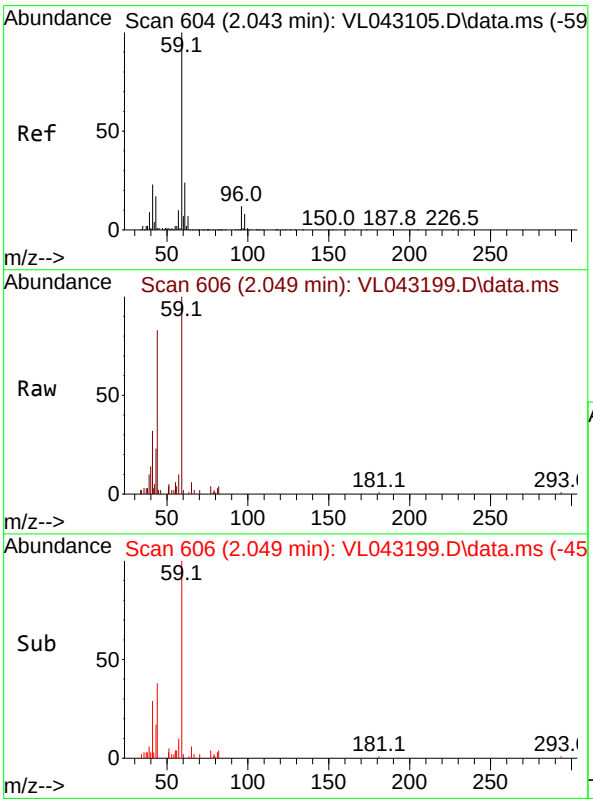
#16
1,3-Butadiene
Concen: 0.254 ppbv
RT: 1.602 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 39 Resp: 2295

Ion	Ratio	Lower	Upper
39	100		
54	18.1	59.0	88.4#

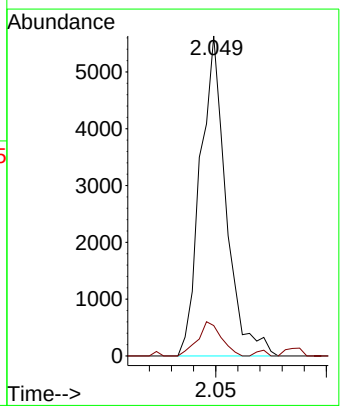


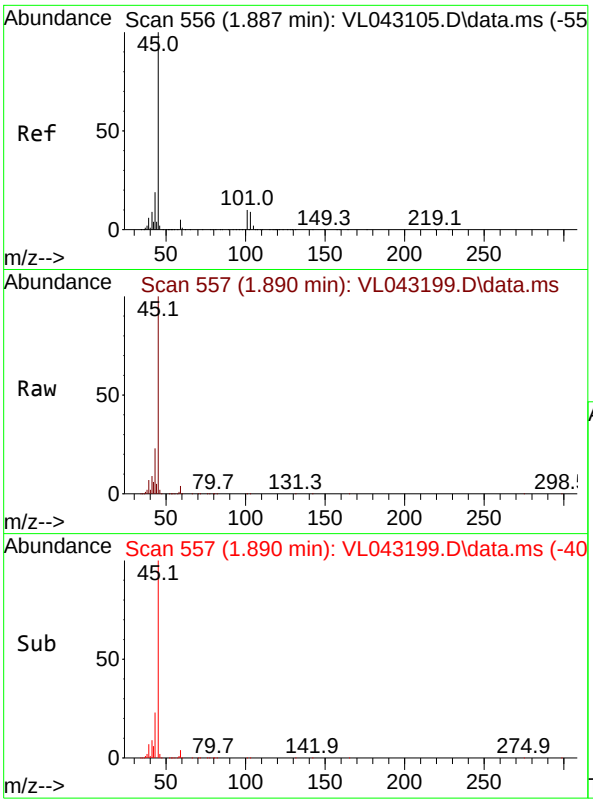


#17
tert-Butyl alcohol
Concen: 0.175 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 59 Resp: 4553

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.2	12.4



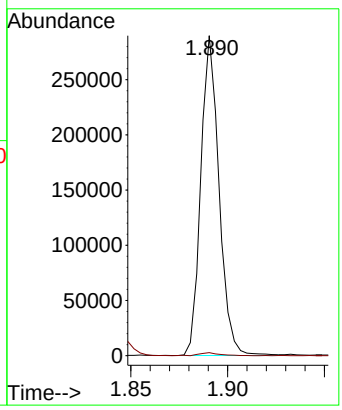


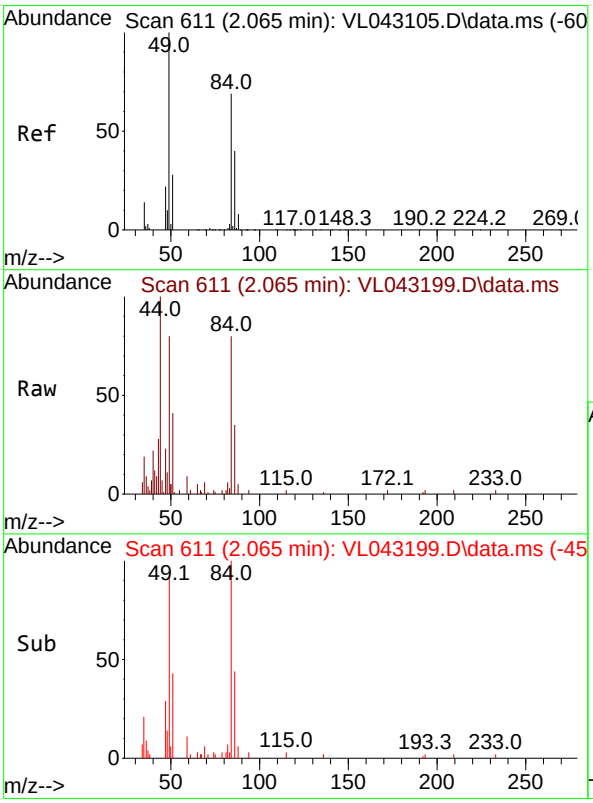
#19
Isopropyl Alcohol
Concen: 16.095 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 45 Resp: 190045

Ion	Ratio	Lower	Upper
45	100		
58	1.1	31.3	46.9#

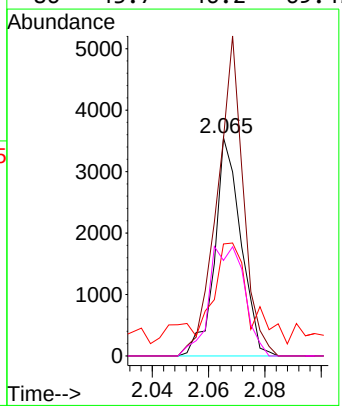


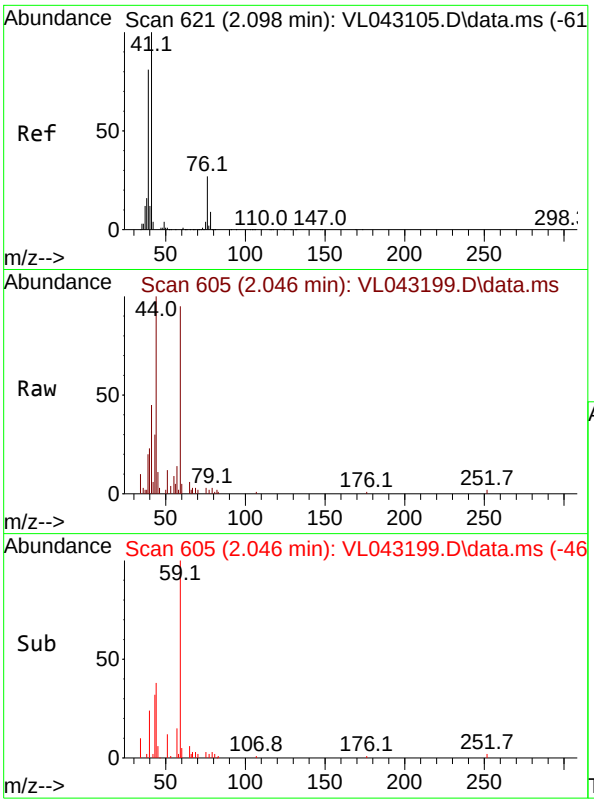


#20
Methylene Chloride
Concen: 0.305 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 84 Resp: 2288

Ion	Ratio	Lower	Upper
84	100		
49	99.4	116.6	175.0#
51	37.0	34.8	52.2
86	43.7	46.2	69.4#



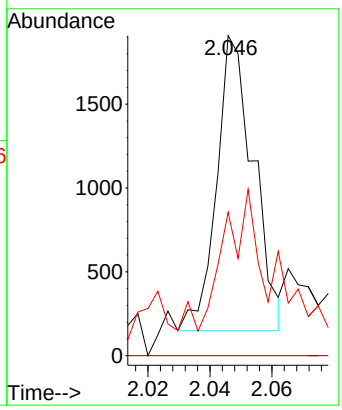


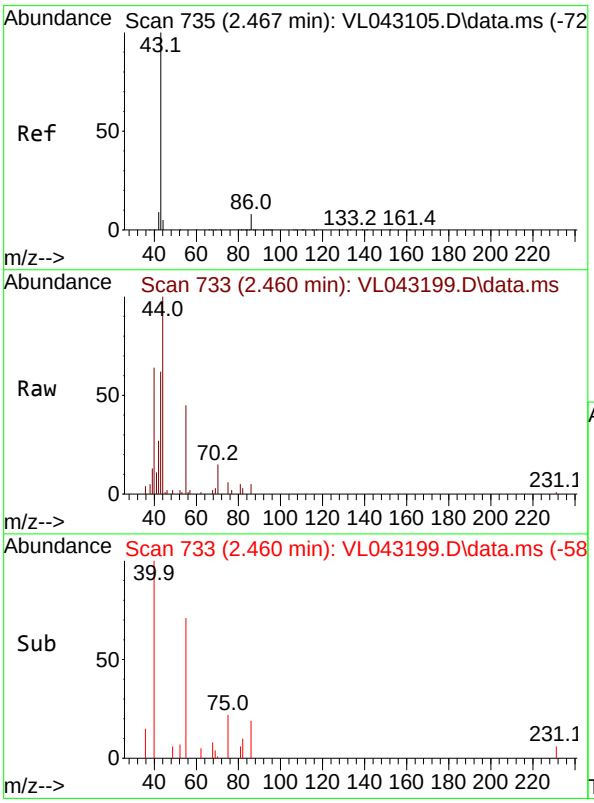
#21
Allyl Chloride
Concen: 0.104 ppbv
RT: 2.046 min Scan# 6
Delta R.T. -0.052 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 41 Resp: 1457

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.5	32.3#
39	50.4	60.8	91.2#

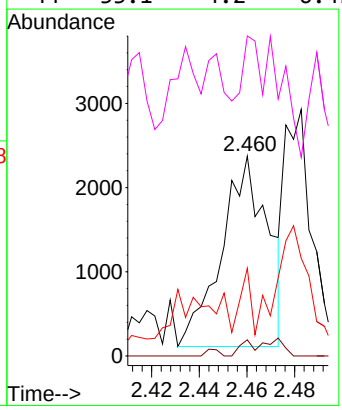


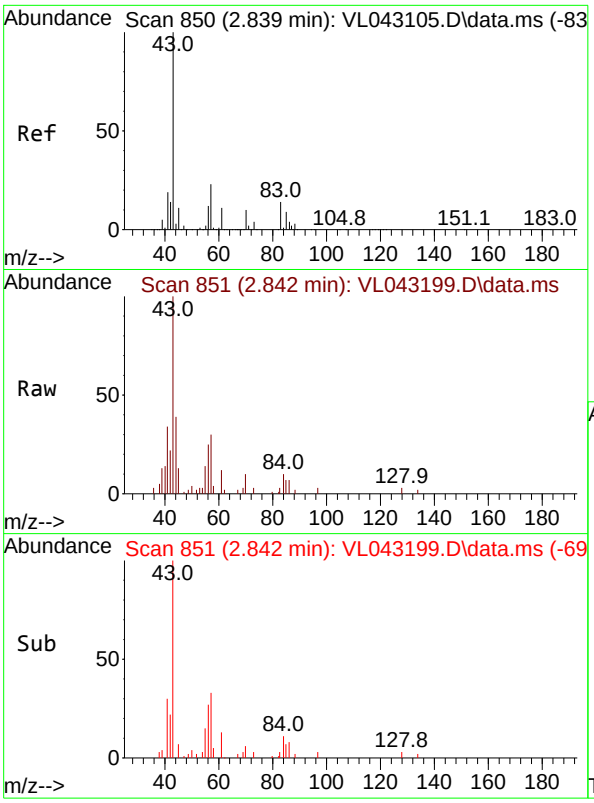


#23
Vinyl Acetate
Concen: 0.109 ppbv
RT: 2.460 min Scan# 733
Delta R.T. -0.007 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 43 Resp: 3027

Ion	Ratio	Lower	Upper
43	100		
86	8.5	6.2	9.2
42	11.1	7.6	11.4
44	33.1	4.2	6.4#



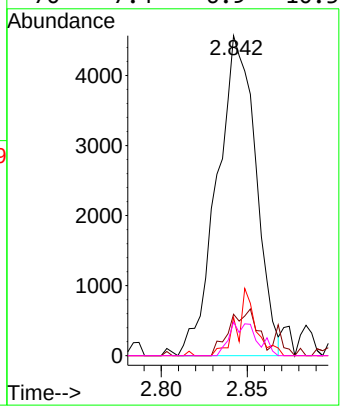


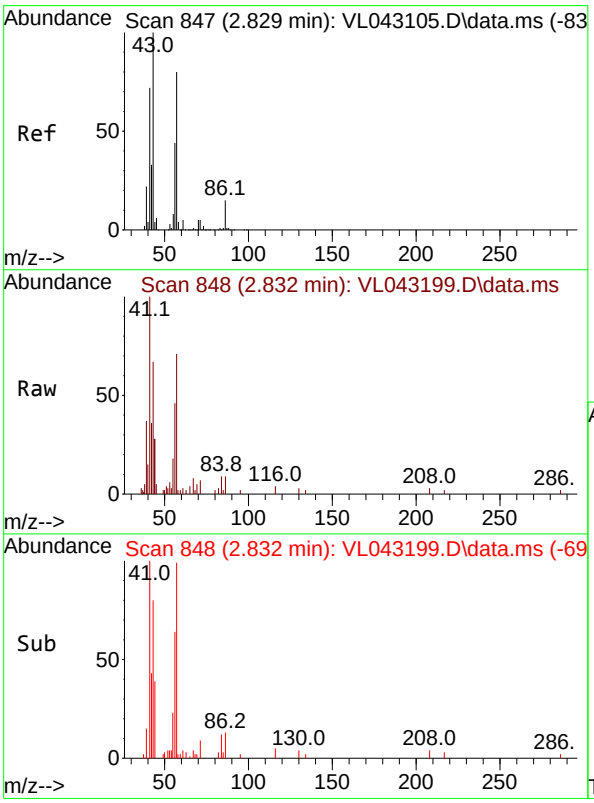
#25
Ethyl Acetate
Concen: 0.151 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 43 Resp: 7121

Ion	Ratio	Lower	Upper
43	100		
45	13.7	7.8	11.8#
61	10.4	7.0	10.6
70	7.4	6.9	10.3

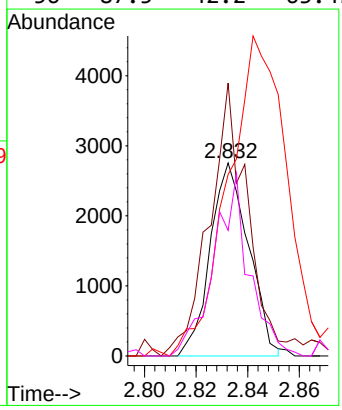


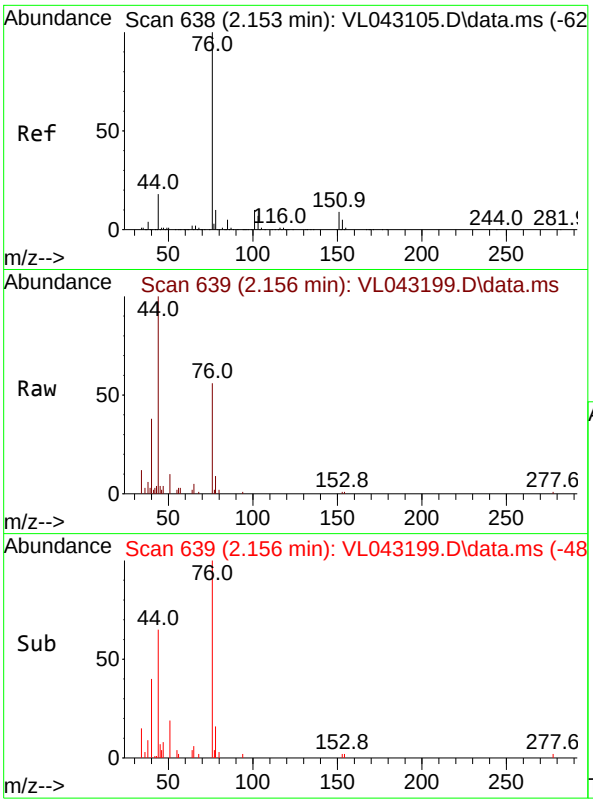


#26
Hexane
Concen: 0.132 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 57 Resp: 2858

Ion	Ratio	Lower	Upper
57	100		
41	154.4	71.4	107.0#
43	268.3	178.5	267.7#
56	87.5	42.2	63.4#



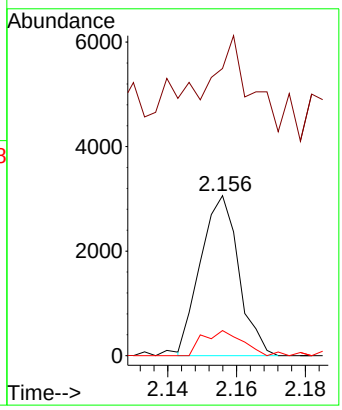


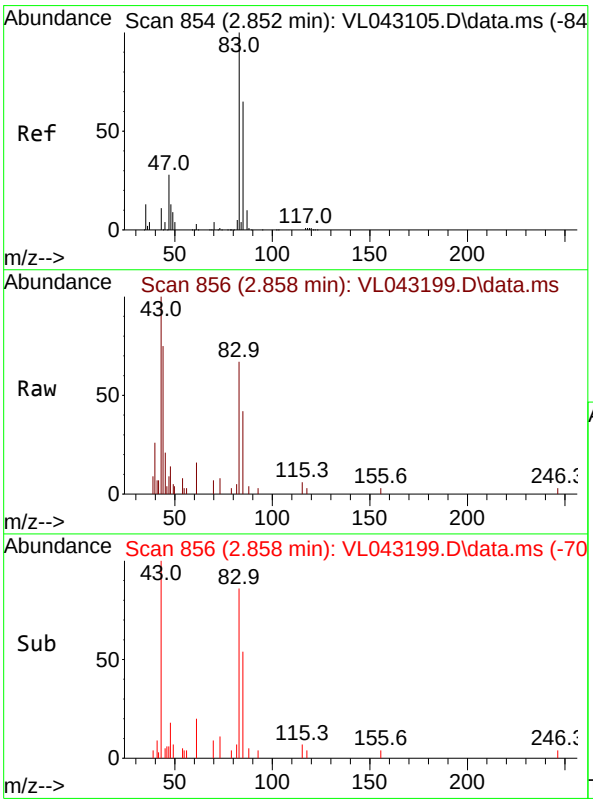
#27
Carbon Disulfide
Concen: 0.119 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 76 Resp: 2364

Ion	Ratio	Lower	Upper
76	100		
44	113.7	16.7	25.1#
78	17.7	9.3	13.9#

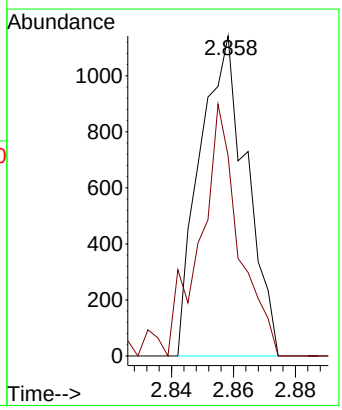


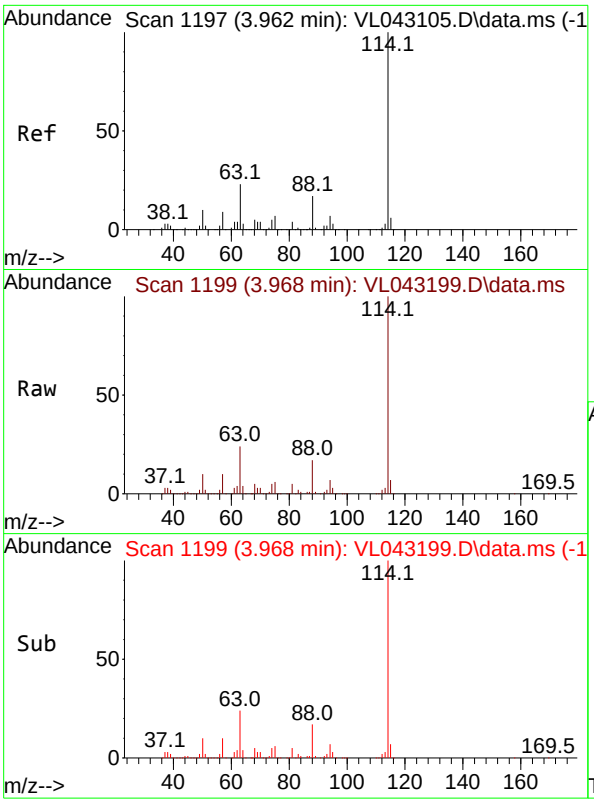


#29
Chloroform
Concen: 0.038 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 83 Resp: 1196

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.8	77.6



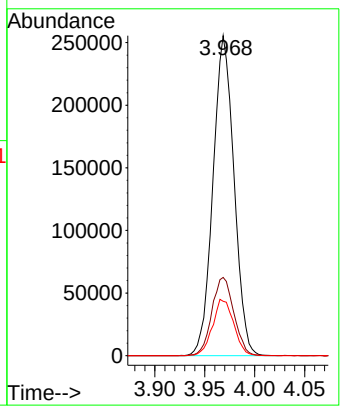


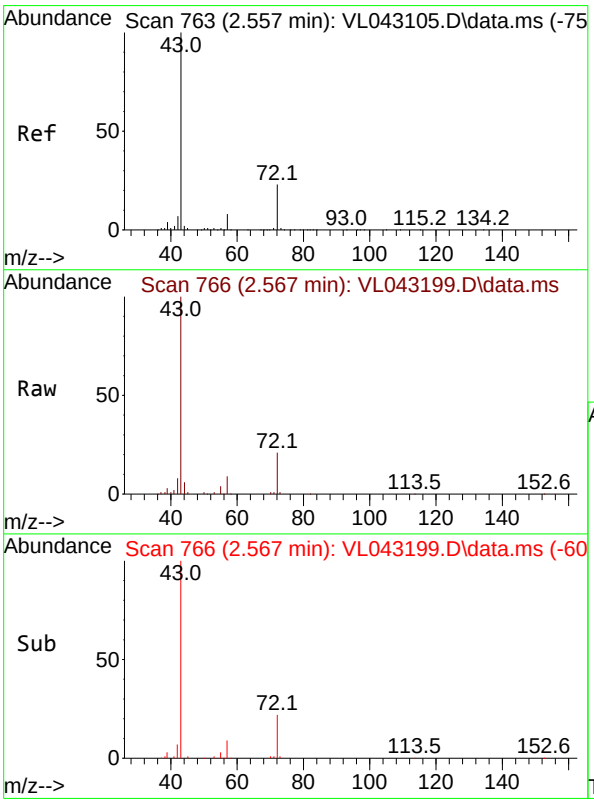
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion:114 Resp: 374439

Ion	Ratio	Lower	Upper
114	100		
63	25.6	19.3	28.9
88	17.7	13.9	20.9

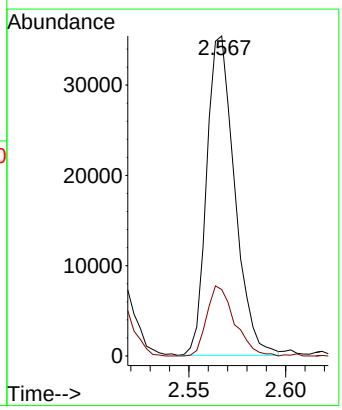


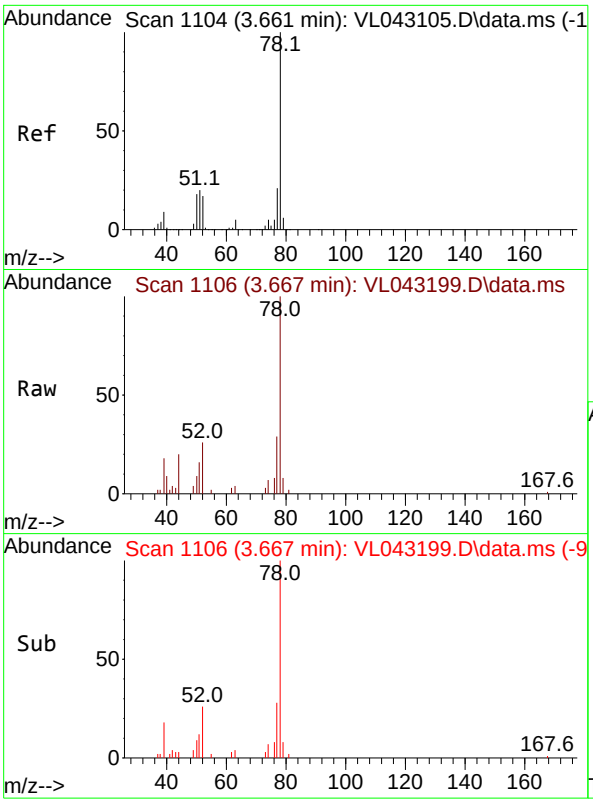


#34
2-Butanone
Concen: 1.412 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 43 Resp: 35547

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.4	27.6



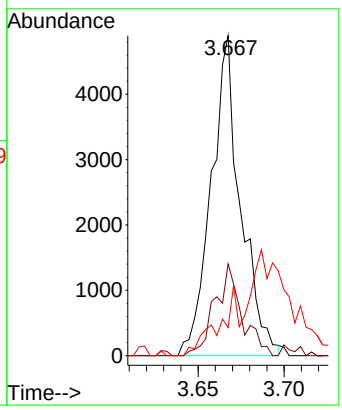


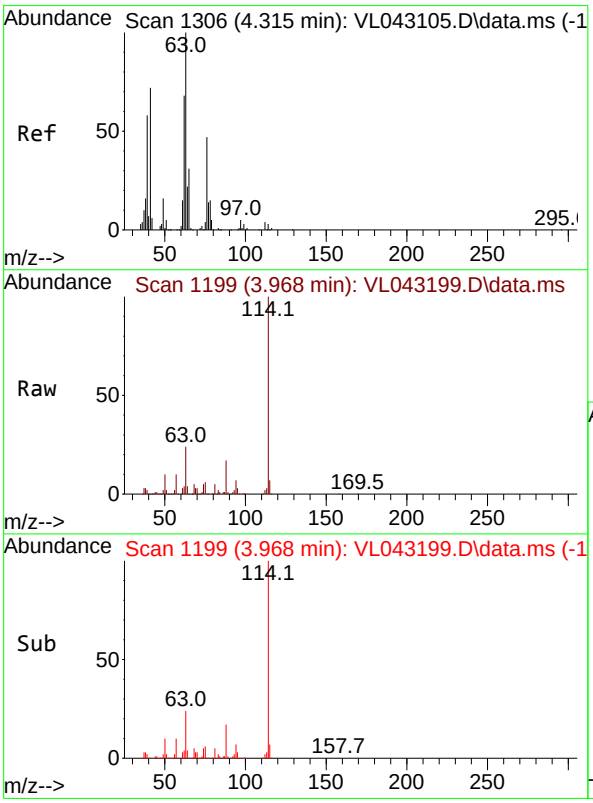
#36
Benzene
Concen: 0.165 ppbv
RT: 3.667 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 78 Resp: 5825

Ion	Ratio	Lower	Upper
78	100		
77	28.7	17.0	25.6#
50	8.8	14.6	22.0#

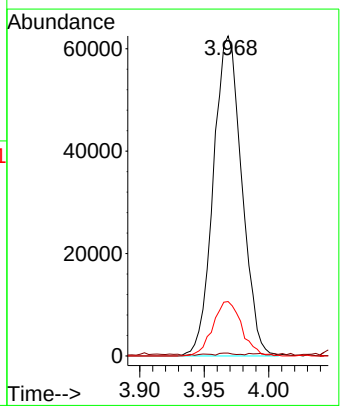


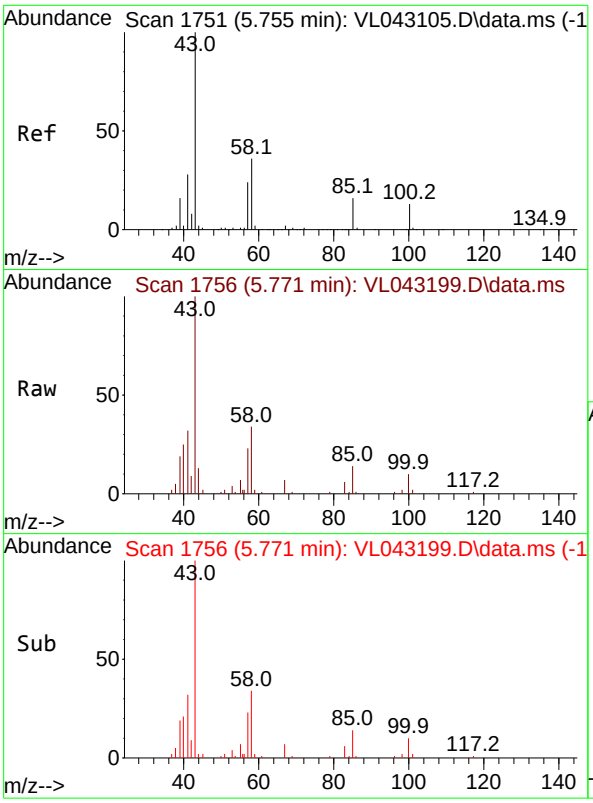


#39
1,2-Dichloropropane
Concen: 7.419 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.346 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 63 Resp: 95652

Ion	Ratio	Lower	Upper
63	100		
41	0.4	58.0	87.0#
62	17.0	54.7	82.1#



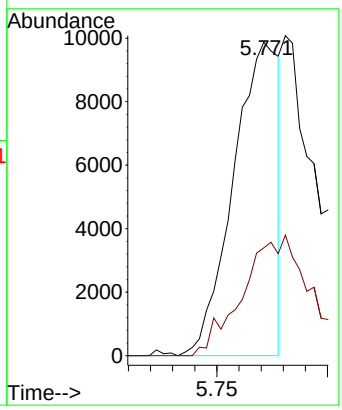


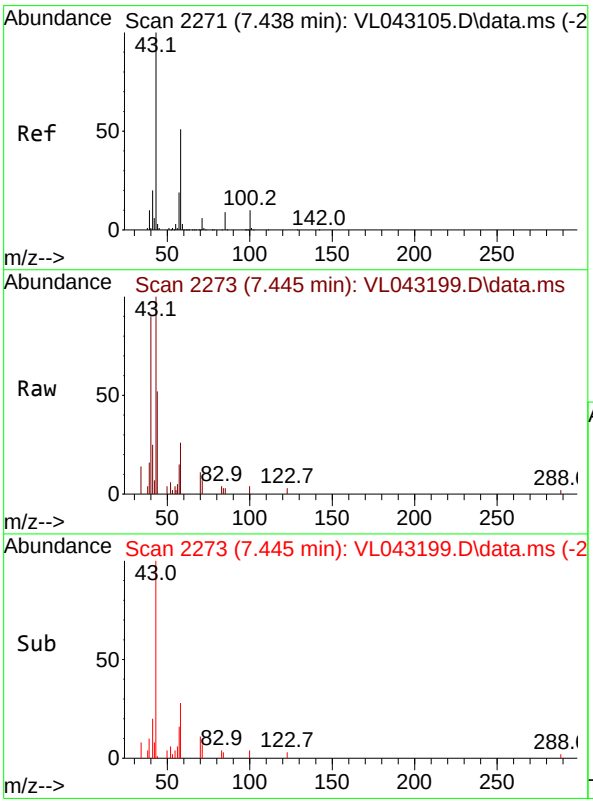
#50
4-Methyl-2-Pentanone
Concen: 0.403 ppbv
RT: 5.771 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 43 Resp: 14009

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7#

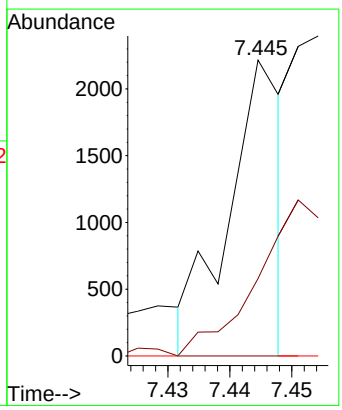


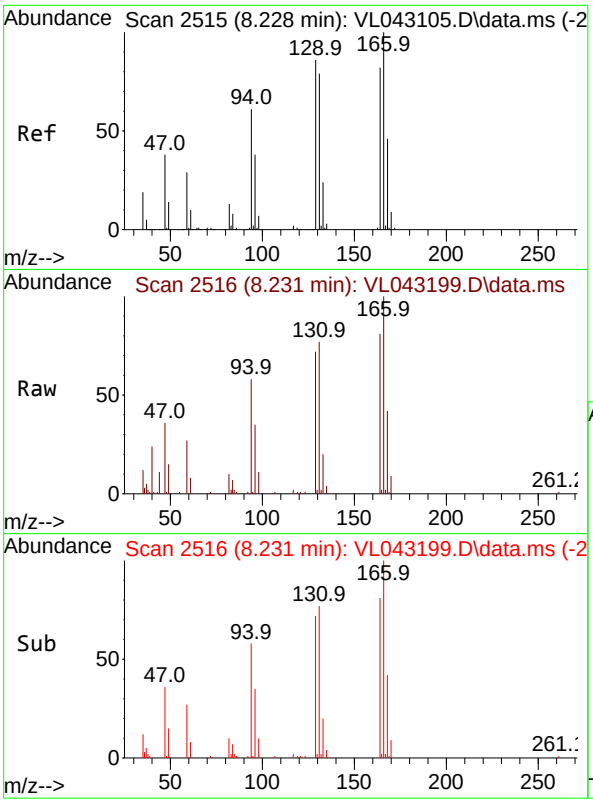


#51
2-Hexanone
Concen: 0.051 ppbv
RT: 7.445 min Scan# 2273
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 43 Resp: 1335

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.4	60.6#
98	0.0	0.1	0.1#



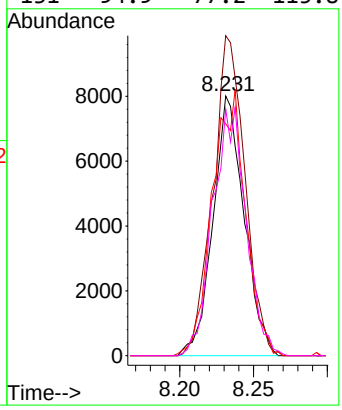


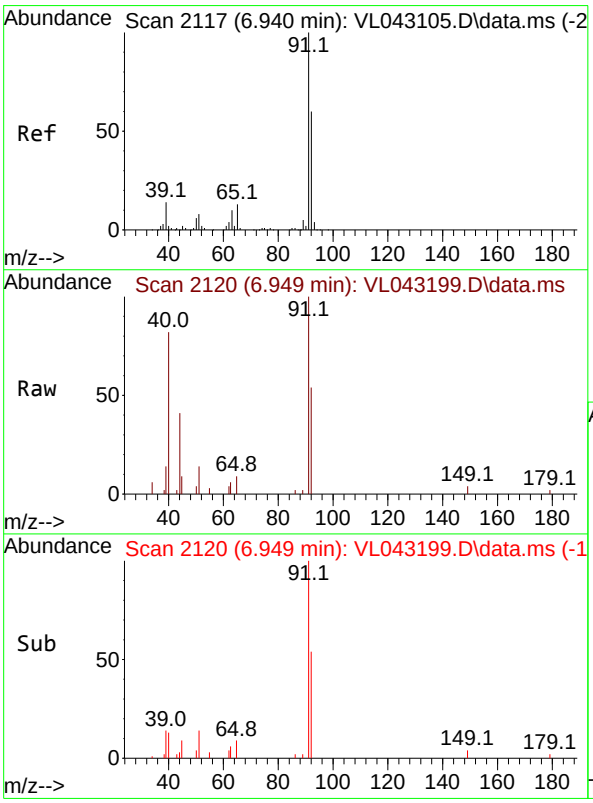
#52
Tetrachloroethene
Concen: 0.924 ppbv
RT: 8.231 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion:164 Resp: 11745

Ion	Ratio	Lower	Upper
164	100		
166	123.3	97.6	146.4
129	90.5	84.5	126.7
131	94.9	77.2	115.8

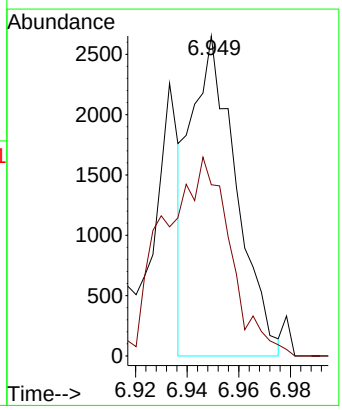


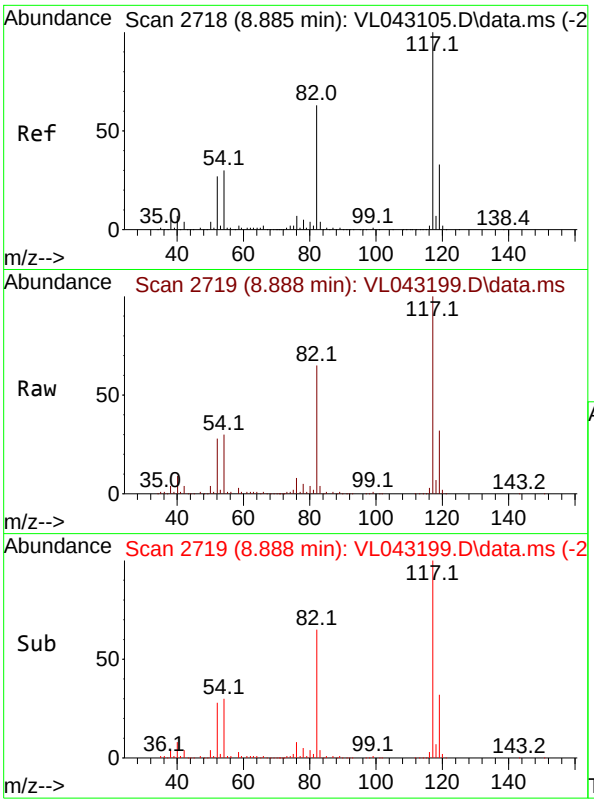


#53
Toluene
Concen: 0.078 ppbv
RT: 6.949 min Scan# 2120
Delta R.T. 0.010 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 91 Resp: 3246

Ion	Ratio	Lower	Upper
91	100		
92	91.9	48.8	73.2#



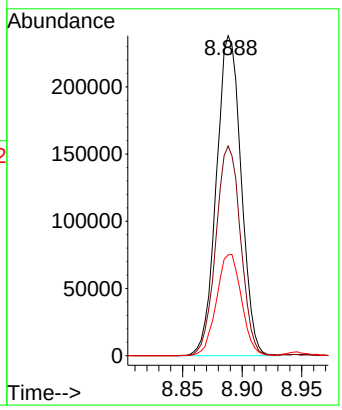


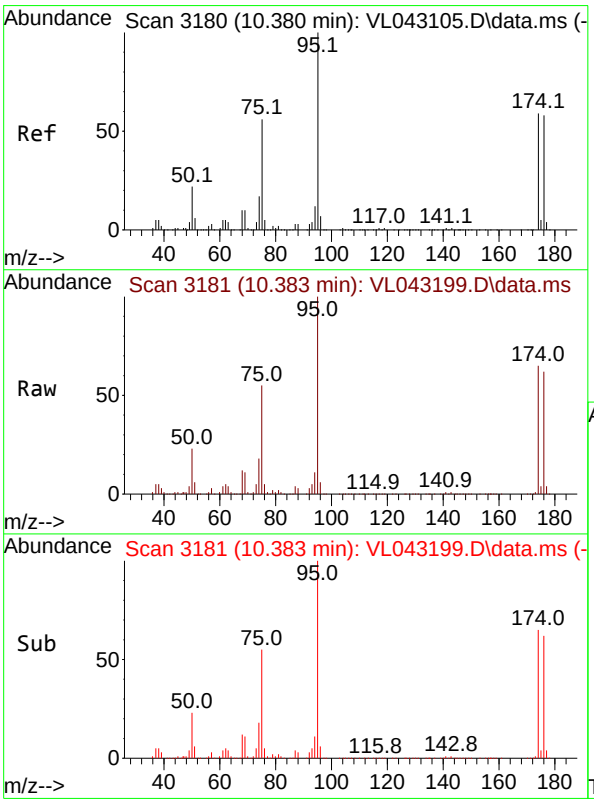
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion:117 Resp: 343535

Ion	Ratio	Lower	Upper
117	100		
82	66.0	53.8	80.8
119	32.0	25.4	38.0

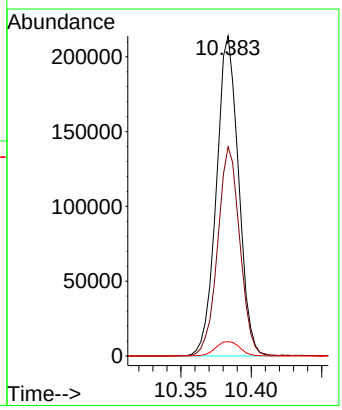




#68
1-Bromo-4-Fluorobenzene
Concen: 8.780 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 95 Resp: 234436

Ion	Ratio	Lower	Upper
95	100		
174	65.7	48.3	72.5
175	4.9	3.8	5.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043200.D
Acq On : 13 Nov 2025 15:23
Operator : SY/MD
Sample : Q3627-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Quant Time: Nov 14 04:40:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	136843	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	359287	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	305253	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	240491	10.136	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	4950	0.254	ppbv		94
3) Chlorodifluoromethane	1.470	51	43083	2.047	ppbv	#	61
4) Chloromethane	1.534	50	680	0.088	ppbv	#	68
5) Vinyl Chloride	1.489	62	248	0.033	ppbv	#	44
9) Propene	1.489	41	4022	0.431	ppbv		85
10) Heptane	4.994	43	1145	0.043	ppbv	#	27
11) Trichlorofluoromethane	1.881	101	5775	0.303	ppbv		93
12) 1,1,2-Trichlorotrifluo...	2.146	101	630	0.041	ppbv	#	72
13) Ethanol	1.725	45	148663	43.052	ppbv		99
15) Acetone	1.839	43	495885	26.885	ppbv		99
16) 1,3-Butadiene	1.606	39	2390	0.272	ppbv	#	13
17) tert-Butyl alcohol	2.046	59	27295	1.078	ppbv		97
19) Isopropyl Alcohol	1.887	45	147301	12.823	ppbv	#	18
20) Methylene Chloride	2.065	84	7894	1.083	ppbv		90
21) Allyl Chloride	2.062	41	496	0.036	ppbv	#	21
23) Vinyl Acetate	2.483	43	2111	0.078	ppbv	#	51
25) Ethyl Acetate	2.836	43	10062	0.220	ppbv	#	87
26) Hexane	2.836	57	9409	0.446	ppbv	#	45
27) Carbon Disulfide	2.156	76	8871	0.459	ppbv	#	27
29) Chloroform	2.852	83	7245	0.237	ppbv		99
34) 2-Butanone	2.564	43	65335	2.705	ppbv		99
35) Carbon Tetrachloride	3.771	117	30208	1.169	ppbv		91
36) Benzene	3.664	78	4602	0.136	ppbv	#	84
38) Trichloroethene	4.557	130	74909	5.300	ppbv		97
39) 1,2-Dichloropropane	3.965	63	91917	7.430	ppbv	#	26
40) 1,4-Dioxane	4.606	88	280	0.051	ppbv	#	1
41) Tetrahydrofuran	3.069	42	2943	0.218	ppbv	#	65
50) 4-Methyl-2-Pentanone	5.771	43	2797	0.084	ppbv	#	54
51) 2-Hexanone	7.438	43	3254	0.130	ppbv	#	27
52) Tetrachloroethene	8.228	164	27051	2.217	ppbv		96
53) Toluene	6.943	91	7803	0.194	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.946	131	792	0.041	ppbv	#	1
58) Ethyl Benzene	9.361	91	3525	0.067	ppbv		98
59) m/p-Xylene	9.539	91	6977	0.167	ppbv	#	76
60) o-Xylene	9.969	91	3090	0.075	ppbv		70
61) Styrene	9.879	104	1645	0.088	ppbv		96
66) Benzyl Chloride	11.620	91	696	0.095	ppbv	#	1
67) sec-Butylbenzene	11.782	105	5563	0.060	ppbv	#	1
69) p-Isopropyltoluene	11.927	119	2918	0.037	ppbv	#	92
73) 1,3,5-Trimethylbenzene	11.209	105	1471	0.035	ppbv	#	70
74) 1,2,4-Trimethylbenzene	11.545	105	2343	0.050	ppbv	#	47
79) Naphthalene	13.516	128	2529	0.052	ppbv	#	1

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043200.D
Acq On : 13 Nov 2025 15:23
Operator : SY/MD
Sample : Q3627-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Quant Time: Nov 14 04:40:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

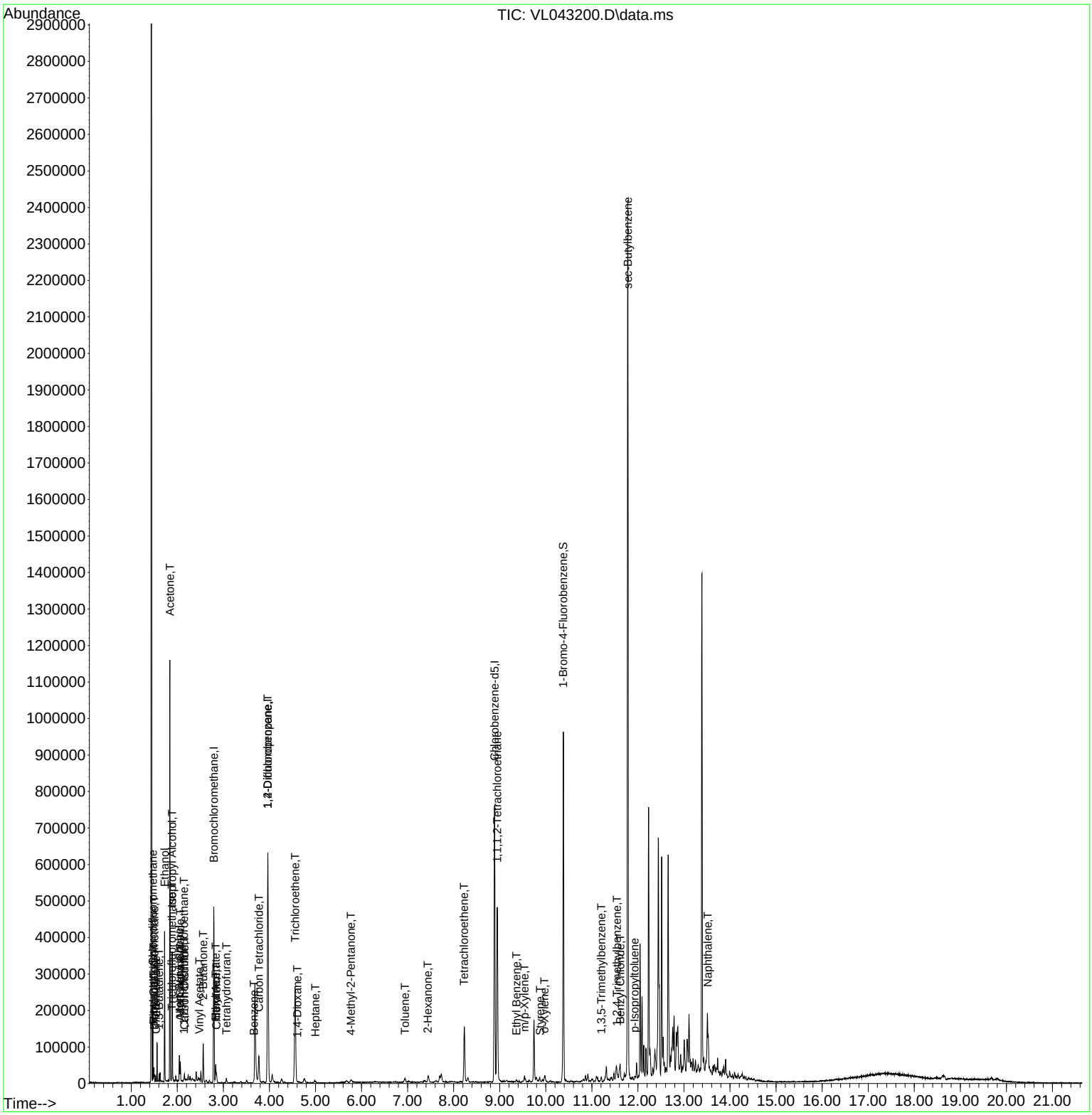
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

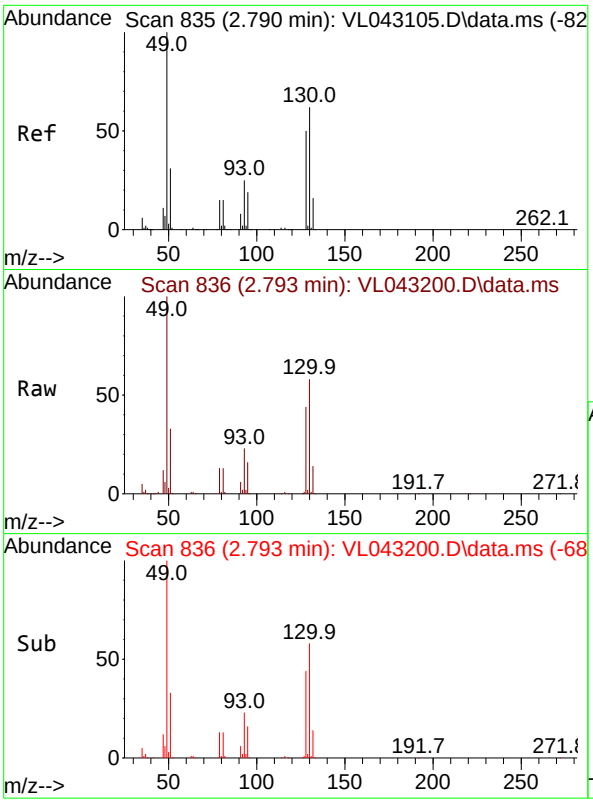
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043200.D
Acq On : 13 Nov 2025 15:23
Operator : SY/MD
Sample : Q3627-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Quant Time: Nov 14 04:40:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



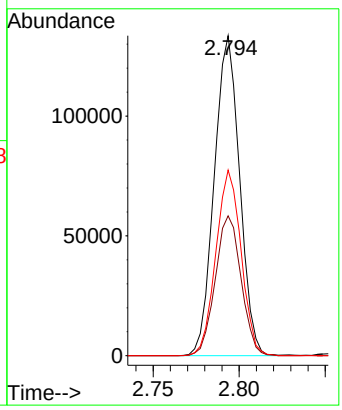


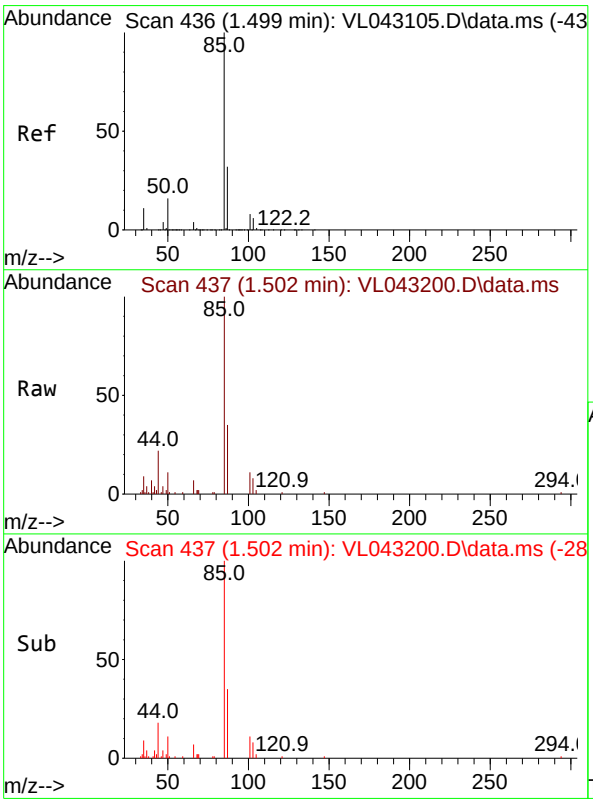
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 49 Resp: 136843

Ion	Ratio	Lower	Upper
49	100		
128	44.5	24.4	73.4
130	57.7	31.0	93.0

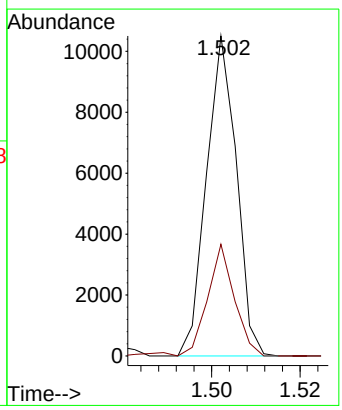


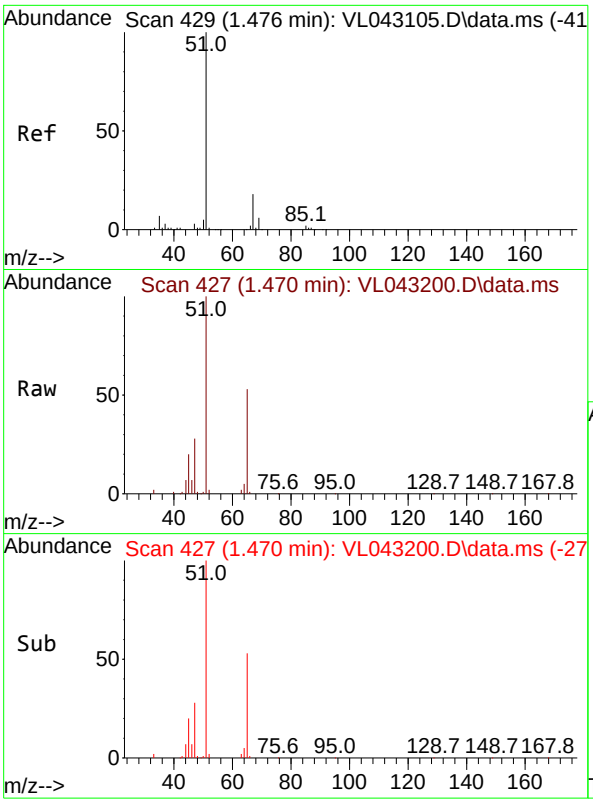


#2
Dichlorodifluoromethane
Concen: 0.254 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 85 Resp: 4950

Ion	Ratio	Lower	Upper
85	100		
87	34.9	25.3	37.9



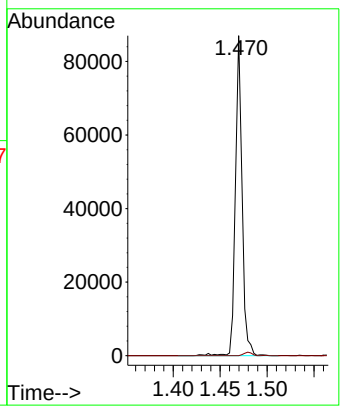


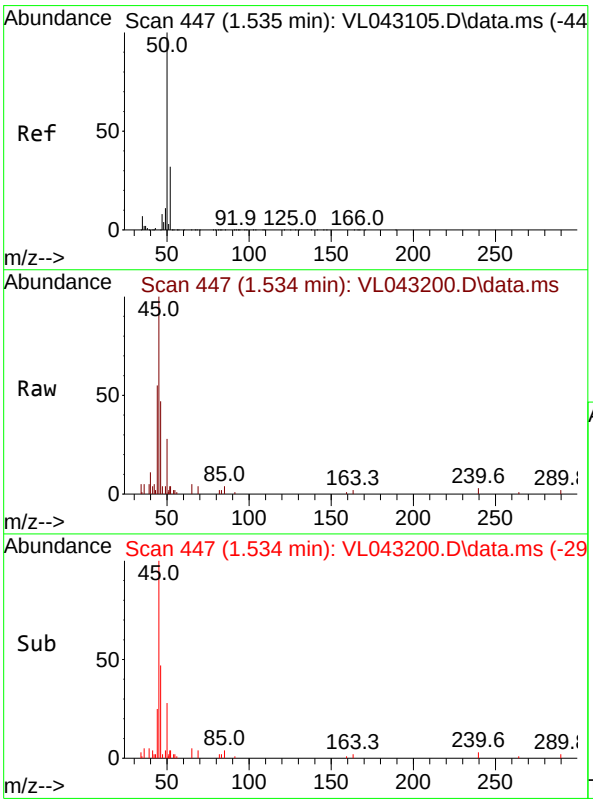
#3
Chlorodifluoromethane
Concen: 2.047 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 51 Resp: 43083

Ion	Ratio	Lower	Upper
51	100		
67	1.3	15.1	22.7#

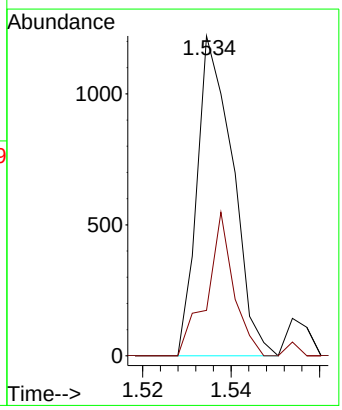


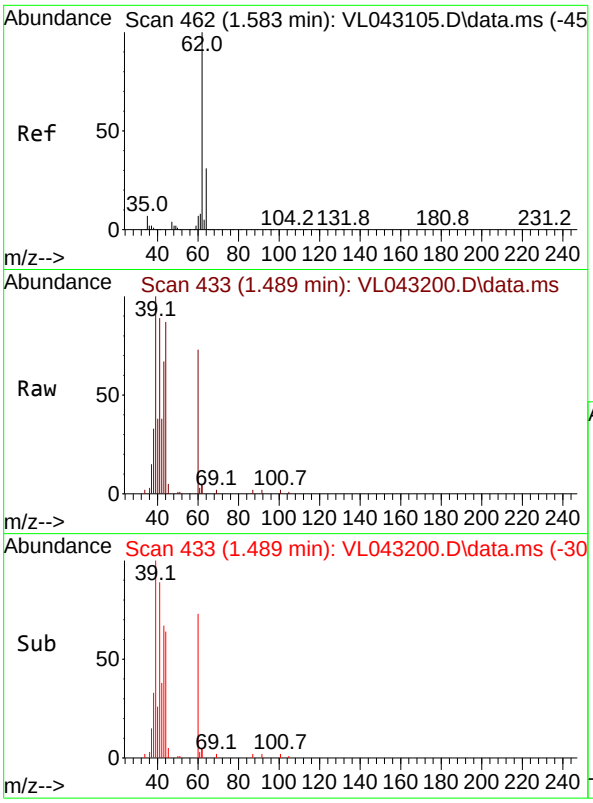


#4
Chloromethane
Concen: 0.088 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 50 Resp: 680

Ion	Ratio	Lower	Upper
50	100		
52	13.5	25.2	37.8#



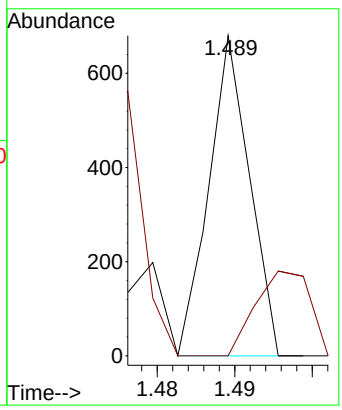


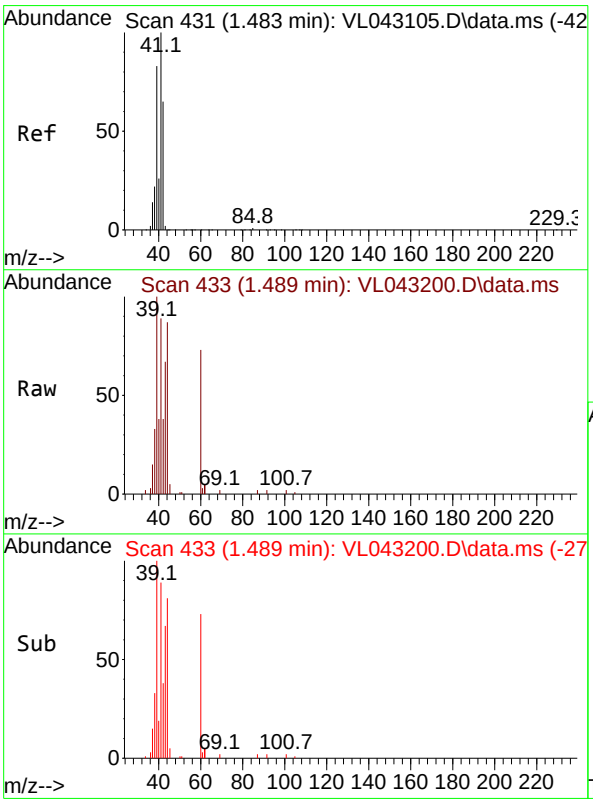
#5
Vinyl Chloride
Concen: 0.033 ppbv
RT: 1.489 min Scan# 4
Delta R.T. -0.094 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 62 Resp: 248

Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.6	36.8#

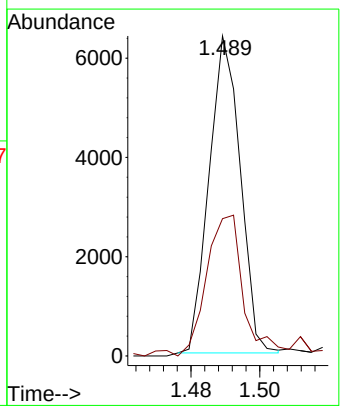


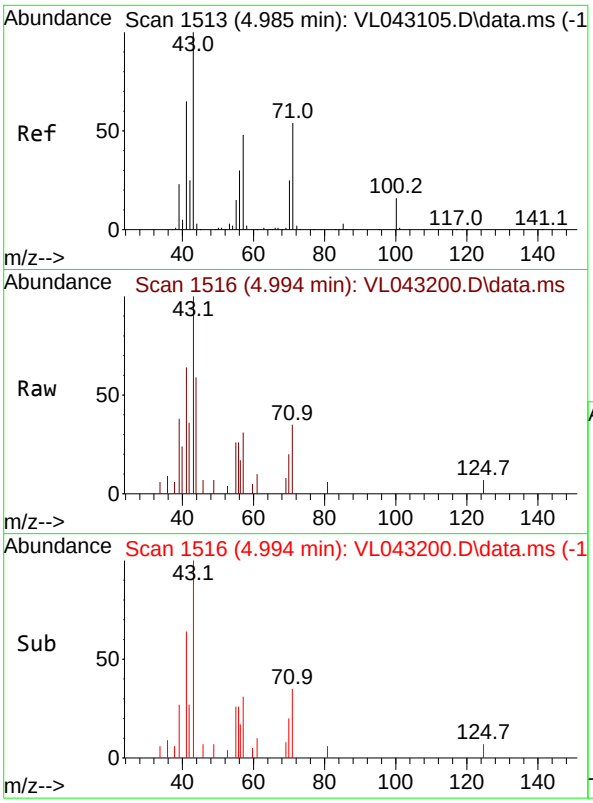


#9
Propene
Concen: 0.431 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 41 Resp: 4022

Ion	Ratio	Lower	Upper
41	100		
42	56.5	55.1	82.7



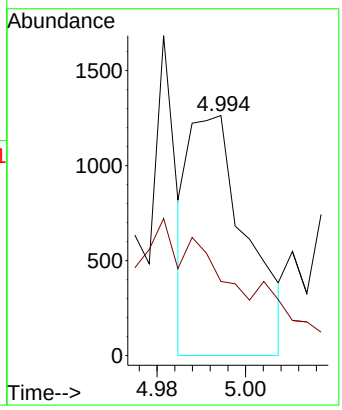


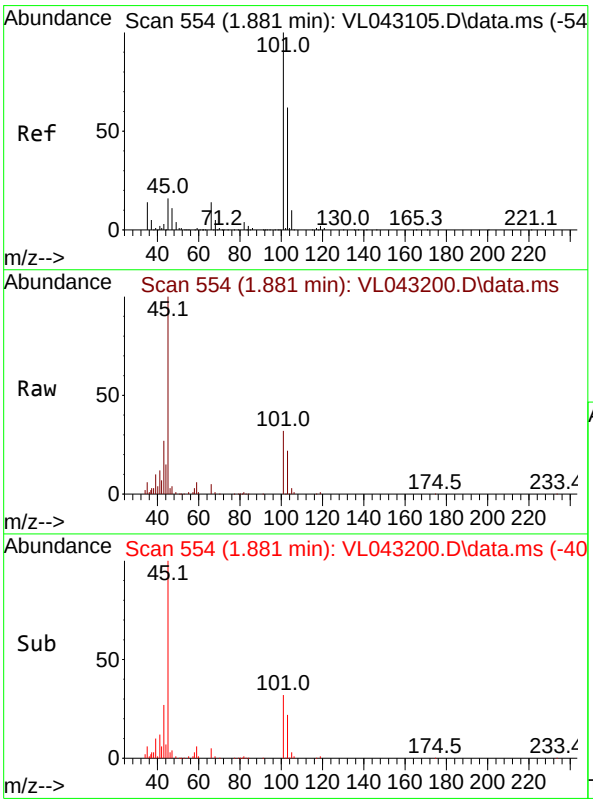
#10
Heptane
Concen: 0.043 ppbv
RT: 4.994 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 43 Resp: 1145

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.8	61.2#

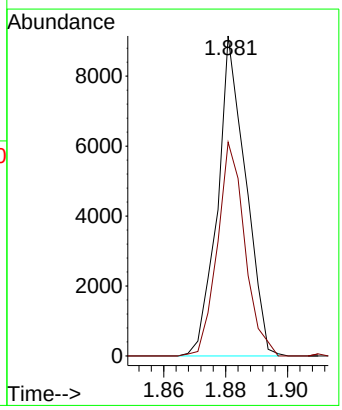


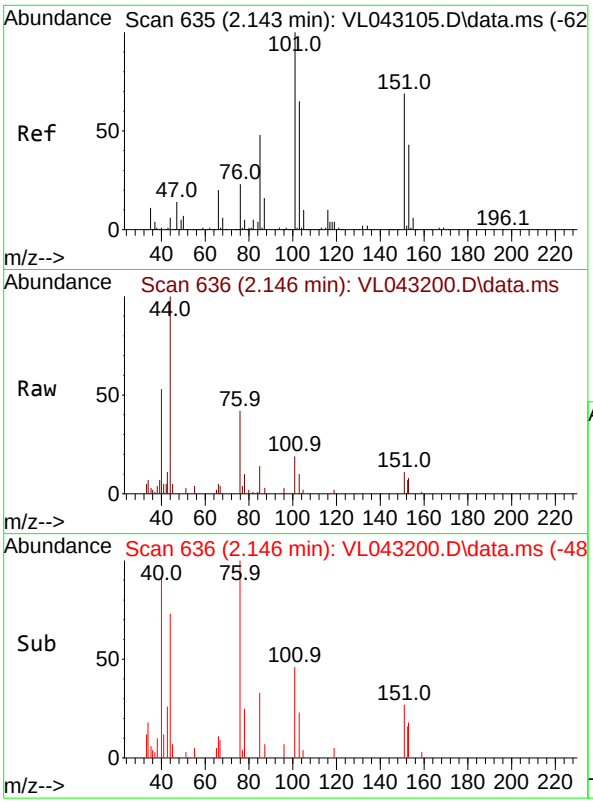


#11
Trichlorofluoromethane
Concen: 0.303 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:101 Resp: 5775

Ion	Ratio	Lower	Upper
101	100		
103	66.8	49.3	73.9



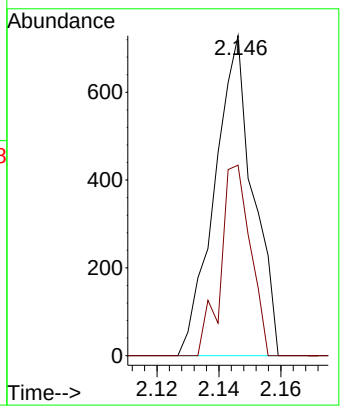


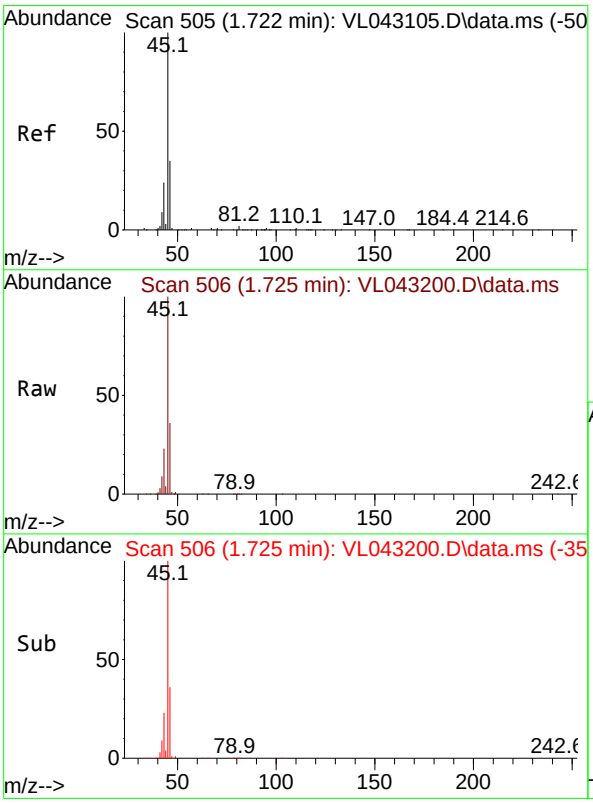
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.041 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion:101 Resp: 630

Ion	Ratio	Lower	Upper
101	100		
151	45.9	54.7	82.1#

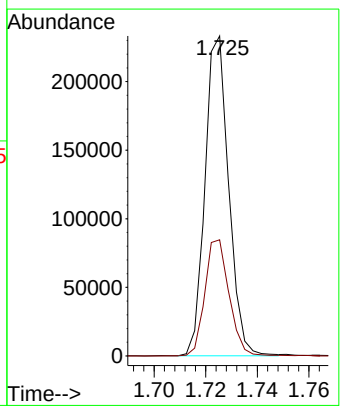


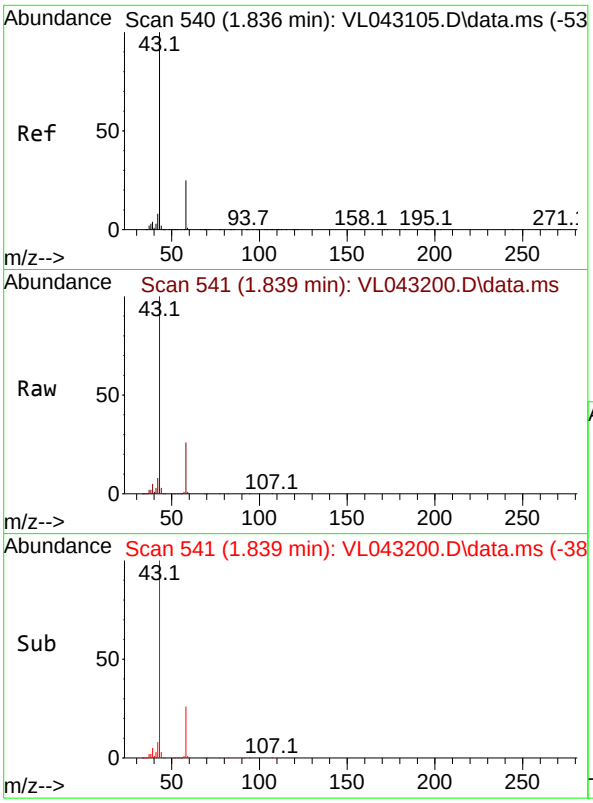


#13
Ethanol
Concen: 43.052 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 45 Resp: 148663

Ion	Ratio	Lower	Upper
45	100		
46	37.5	14.7	58.9



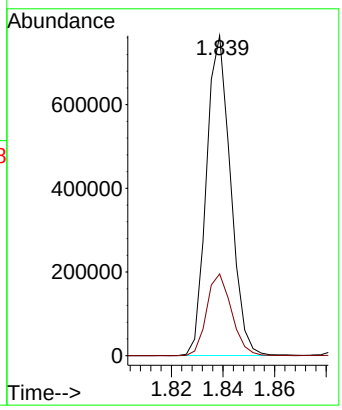


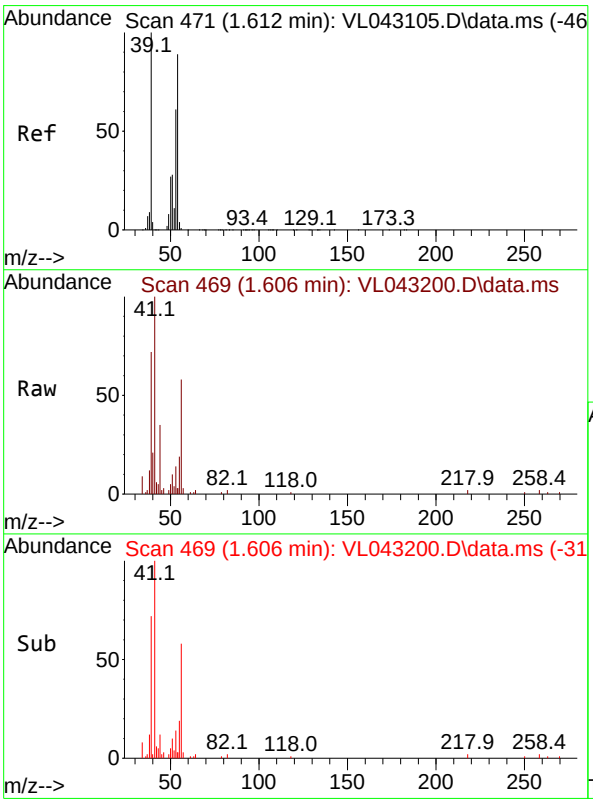
#15
Acetone
Concen: 26.885 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 43 Resp: 495885

Ion	Ratio	Lower	Upper
43	100		
58	26.4	20.8	31.2

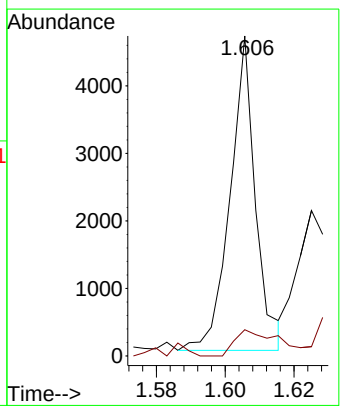


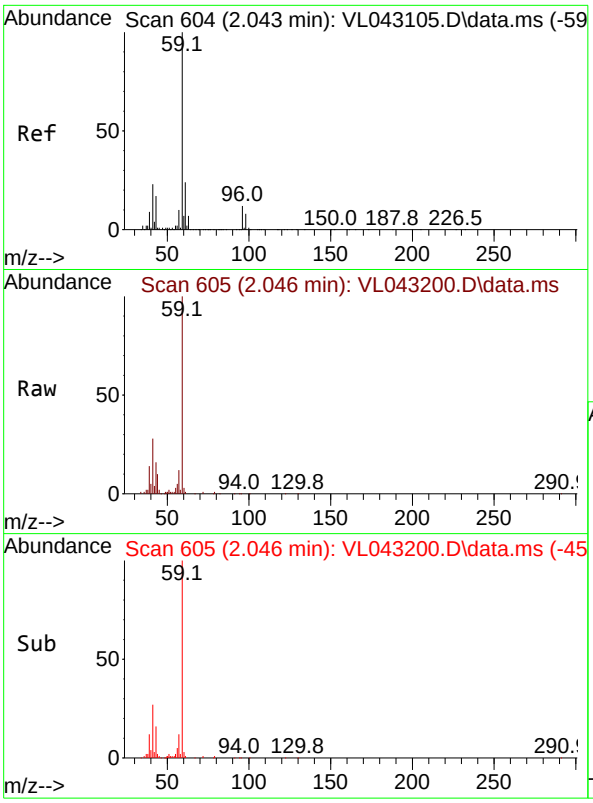


#16
1,3-Butadiene
Concen: 0.272 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.007 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 39 Resp: 2390

Ion	Ratio	Lower	Upper
39	100		
54	0.0	59.0	88.4#



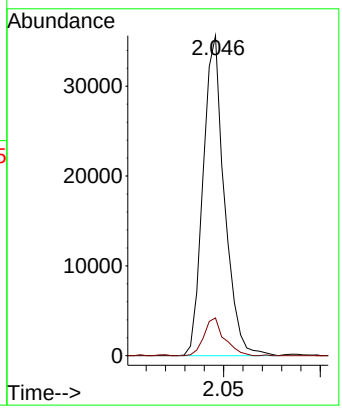


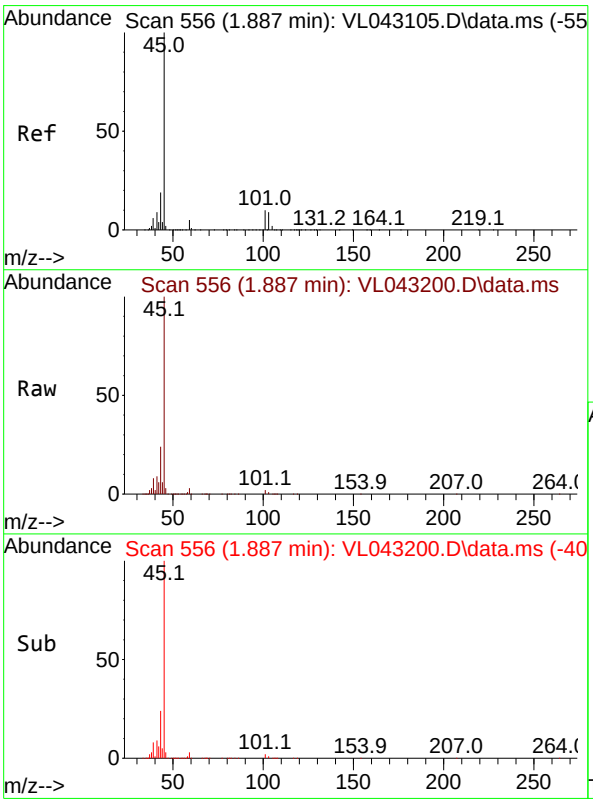
#17
tert-Butyl alcohol
Concen: 1.078 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 59 Resp: 27295

Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.2	12.4

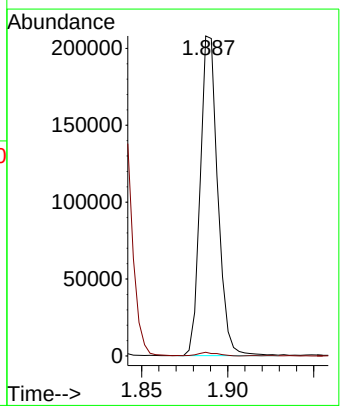


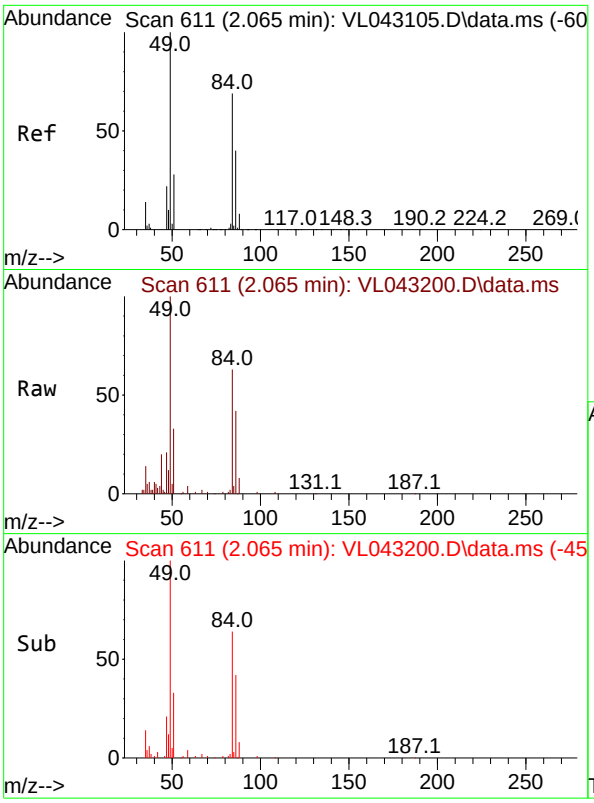


#19
Isopropyl Alcohol
Concen: 12.823 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 45 Resp: 147301

Ion	Ratio	Lower	Upper
45	100		
58	89.0	31.3	46.9#



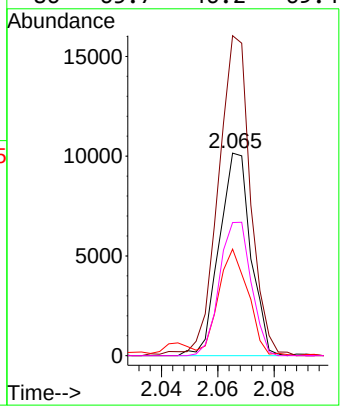


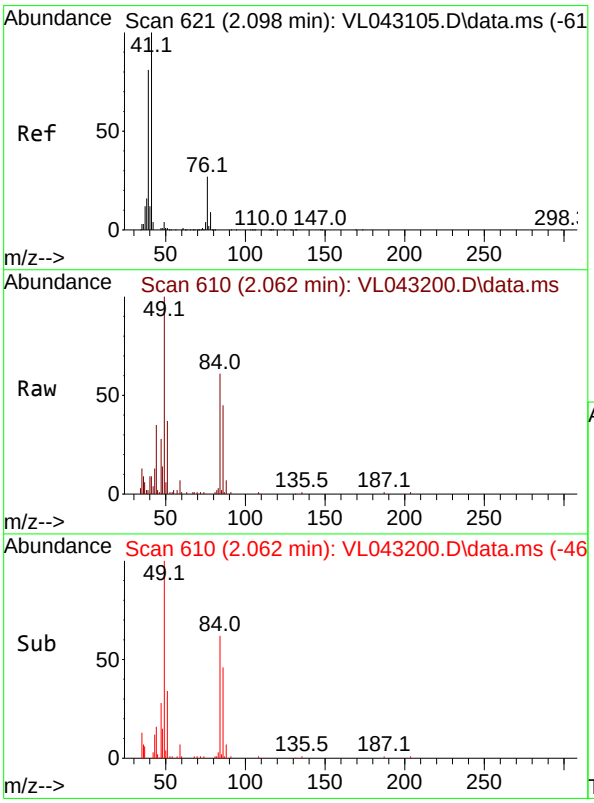
#20
Methylene Chloride
Concen: 1.083 ppbv
RT: 2.065 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 84 Resp: 7894

Ion	Ratio	Lower	Upper
84	100		
49	156.1	116.6	175.0
51	51.4	34.8	52.2
86	65.7	46.2	69.4

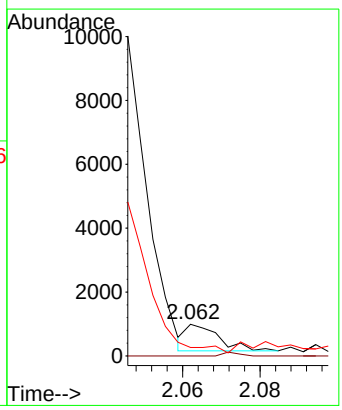


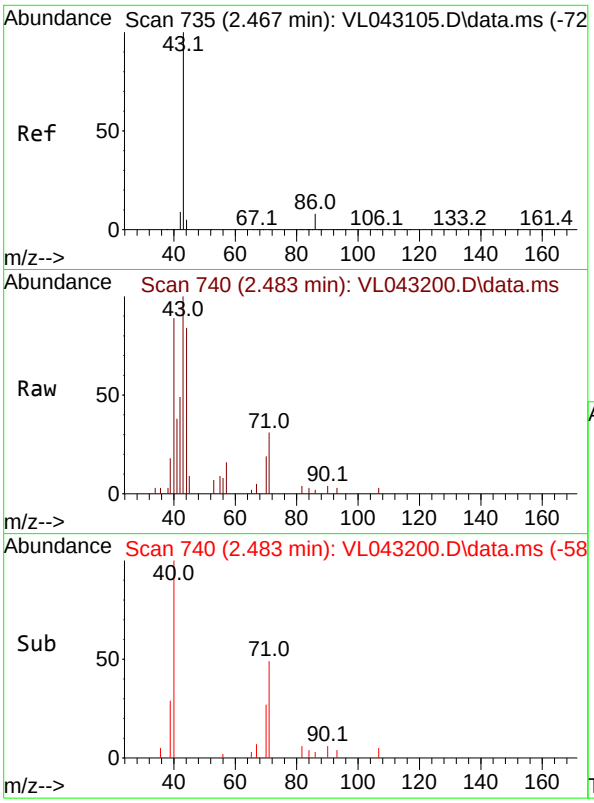


#21
Allyl Chloride
Concen: 0.036 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.036 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 41 Resp: 496

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.5	32.3#
39	0.0	60.8	91.2#



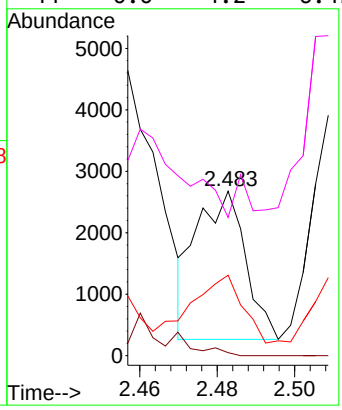


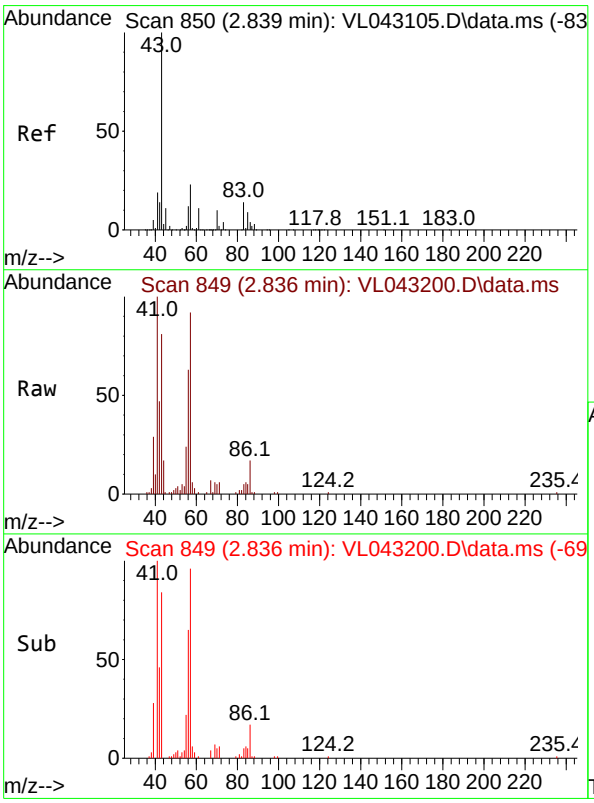
#23
Vinyl Acetate
Concen: 0.078 ppbv
RT: 2.483 min Scan# 7
Delta R.T. 0.016 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 43 Resp: 2111

Ion	Ratio	Lower	Upper
43	100		
86	2.1	6.2	9.2#
42	44.3	7.6	11.4#
44	0.0	4.2	6.4#

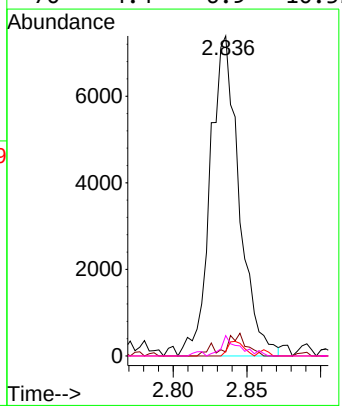


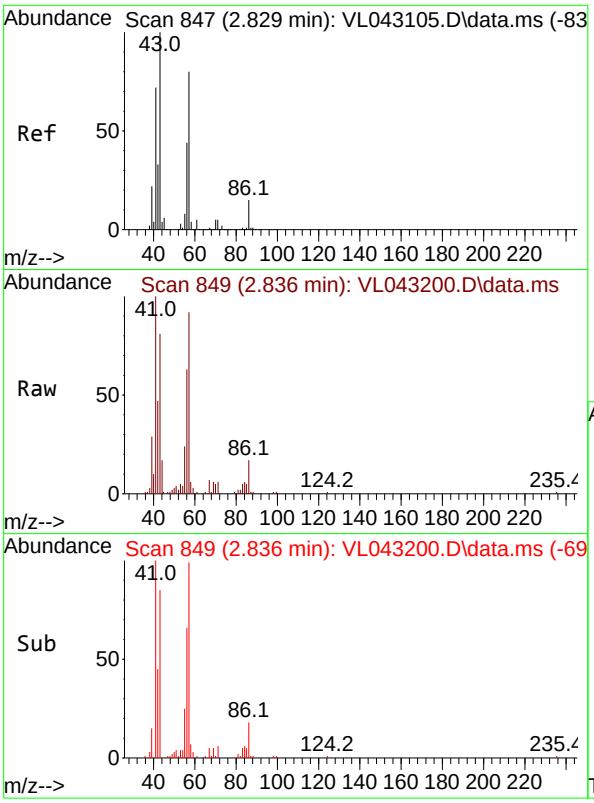


#25
Ethyl Acetate
Concen: 0.220 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 43 Resp: 10062

Ion	Ratio	Lower	Upper
43	100		
45	5.3	7.8	11.8#
61	3.1	7.0	10.6#
70	4.4	6.9	10.3#



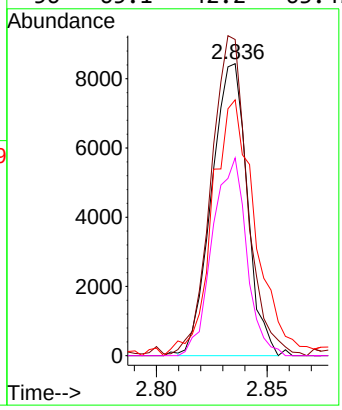


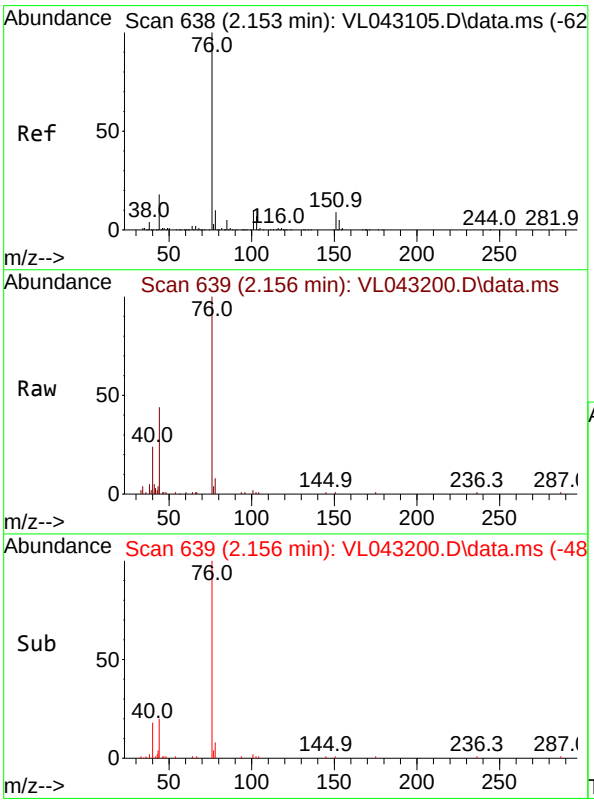
#26
Hexane
Concen: 0.446 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 57 Resp: 9409

Ion	Ratio	Lower	Upper
57	100		
41	117.2	71.4	107.0#
43	102.4	178.5	267.7#
56	65.1	42.2	63.4#

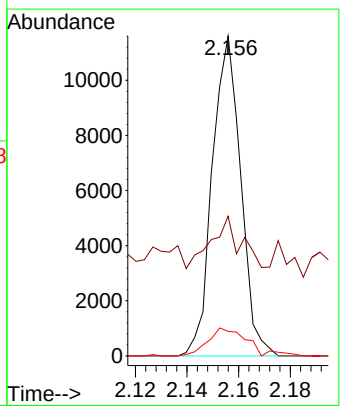


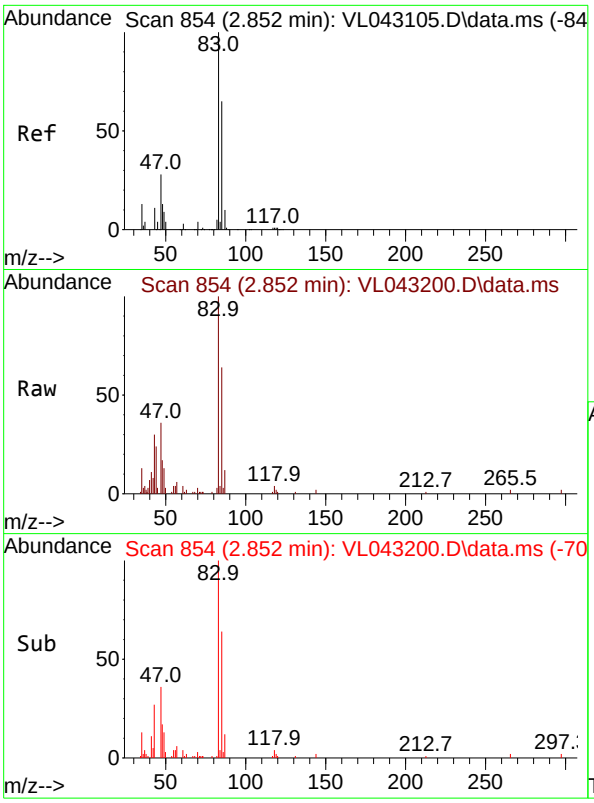


#27
Carbon Disulfide
Concen: 0.459 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 76 Resp: 8871

Ion	Ratio	Lower	Upper
76	100		
44	73.3	16.7	25.1#
78	12.3	9.3	13.9



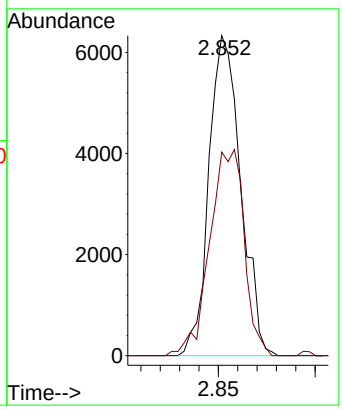


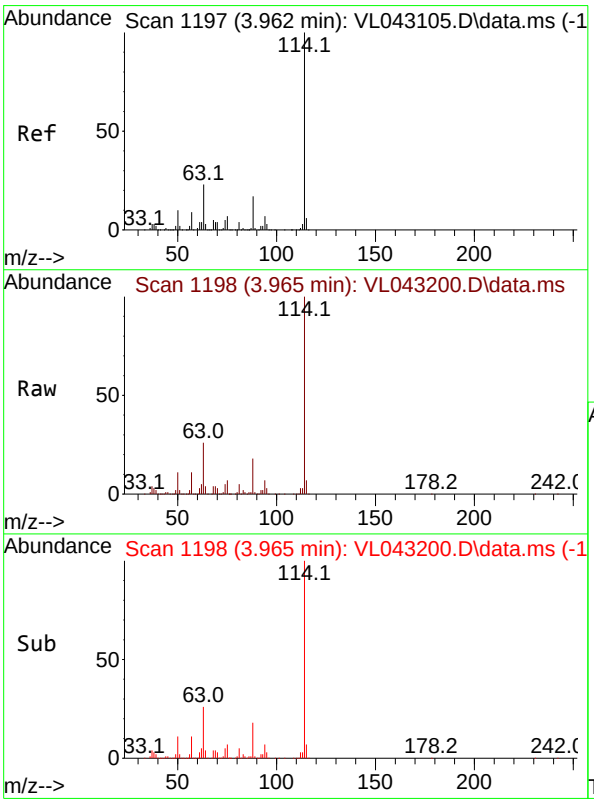
#29
Chloroform
Concen: 0.237 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 83 Resp: 7245

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.8	77.6

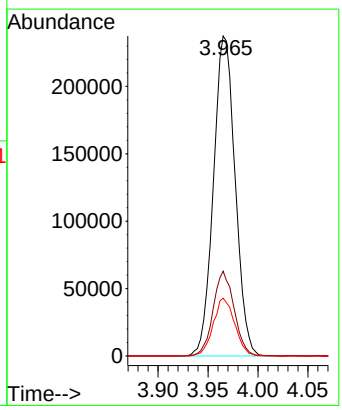


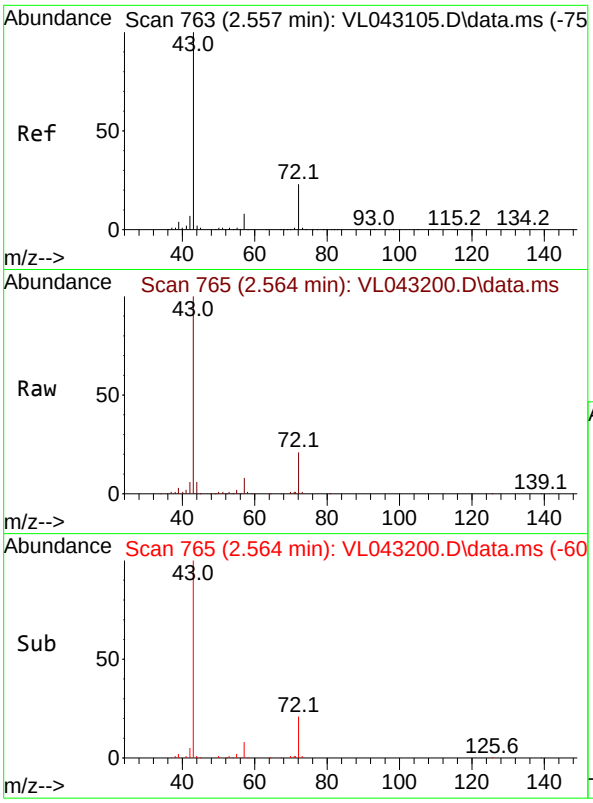


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:114 Resp: 359287

Ion	Ratio	Lower	Upper
114	100		
63	25.6	19.3	28.9
88	17.8	13.9	20.9



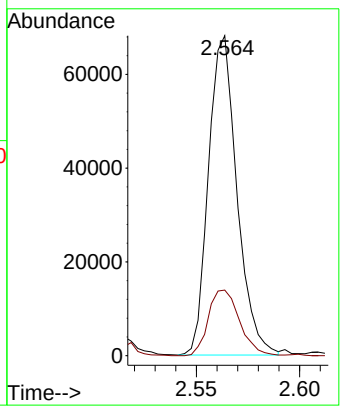


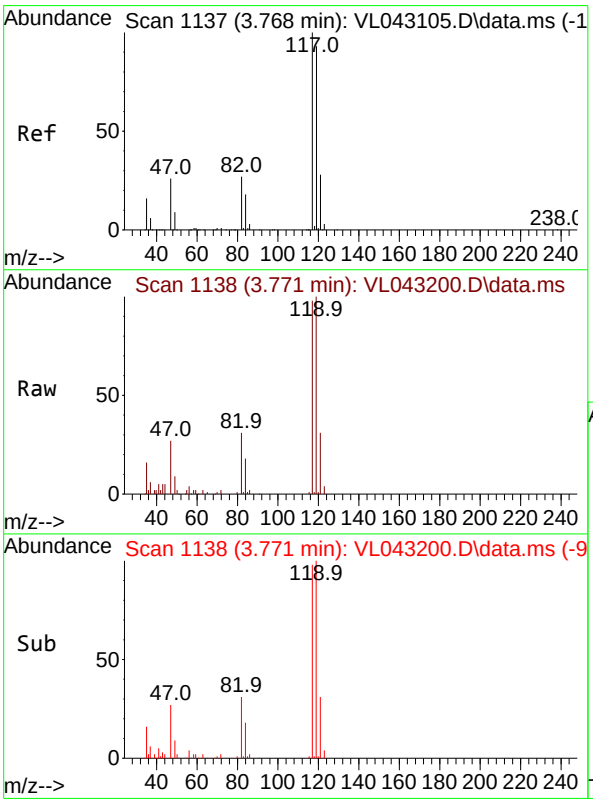
#34
2-Butanone
Concen: 2.705 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 43 Resp: 65335

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.4	27.6

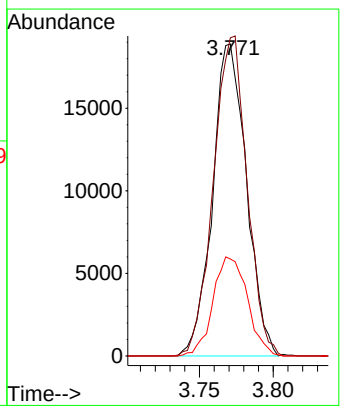


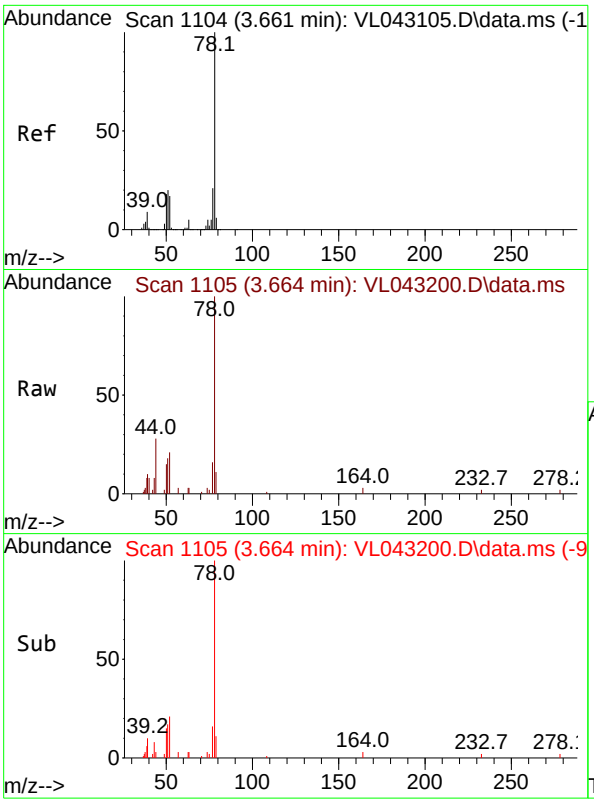


#35
Carbon Tetrachloride
Concen: 1.169 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:117 Resp: 30208

Ion	Ratio	Lower	Upper
117	100		
119	101.6	74.1	111.1
121	31.1	22.2	33.2



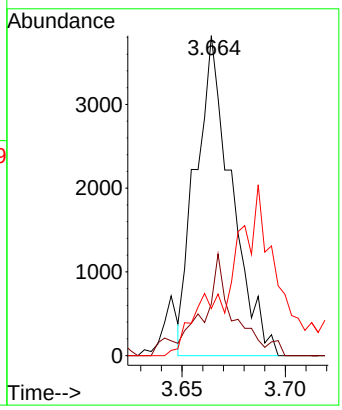


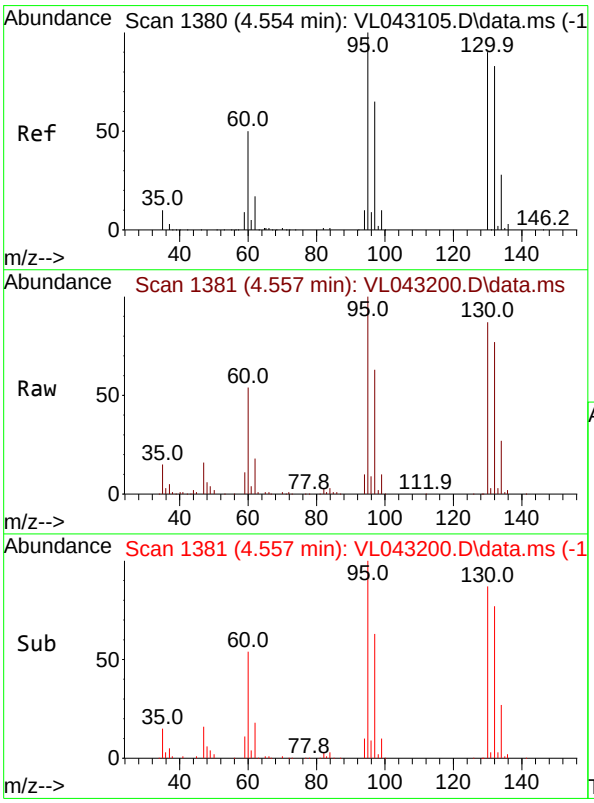
#36
Benzene
Concen: 0.136 ppbv
RT: 3.664 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 78 Resp: 4602

Ion	Ratio	Lower	Upper
78	100		
77	12.3	17.0	25.6#
50	12.6	14.6	22.0#

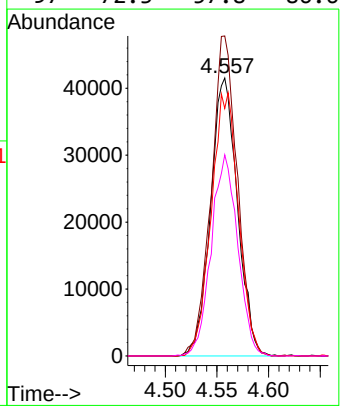


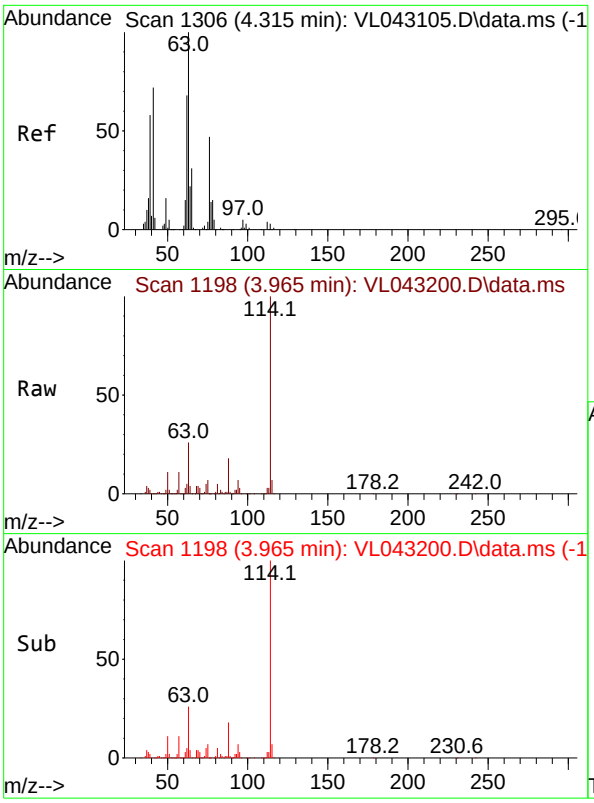


#38
Trichloroethene
Concen: 5.300 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:130 Resp: 74909

Ion	Ratio	Lower	Upper
130	100		
95	115.1	88.6	133.0
132	89.1	73.4	110.0
97	72.3	57.8	86.6



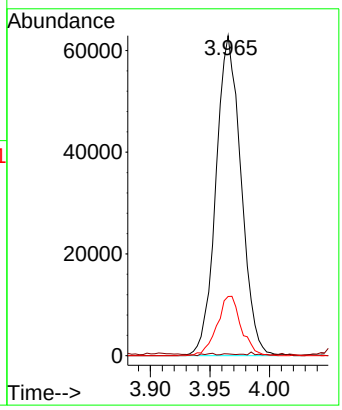


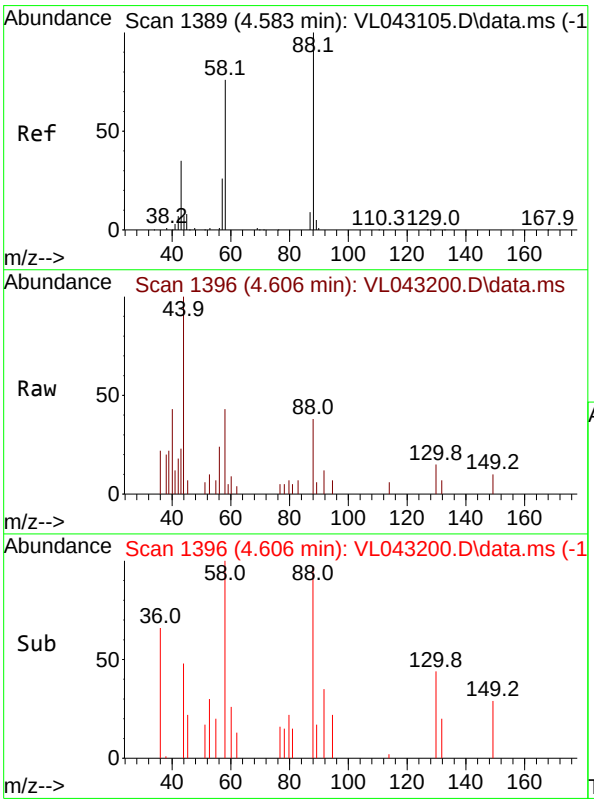
#39
1,2-Dichloropropane
Concen: 7.430 ppbv
RT: 3.965 min Scan# 1
Delta R.T. -0.350 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 63 Resp: 91917

Ion	Ratio	Lower	Upper
63	100		
41	0.2	58.0	87.0#
62	18.5	54.7	82.1#

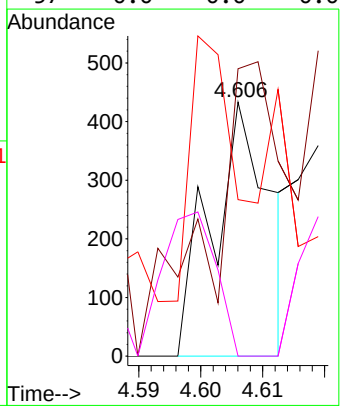


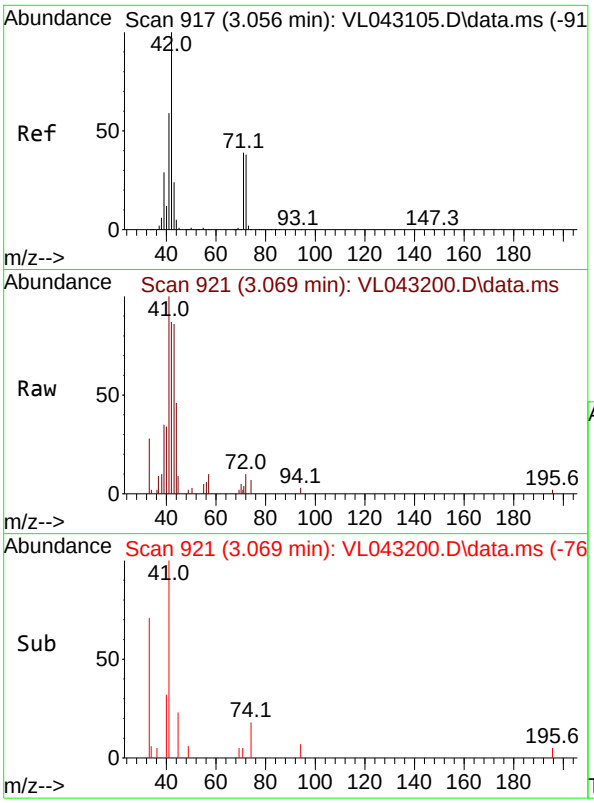


#40
1,4-Dioxane
Concen: 0.051 ppbv
RT: 4.606 min Scan# 1396
Delta R.T. 0.023 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 88 Resp: 280

Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.1	91.7#
43	279.6	24.0	36.0#
57	0.0	0.0	0.0



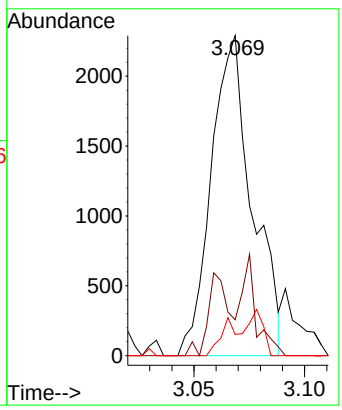


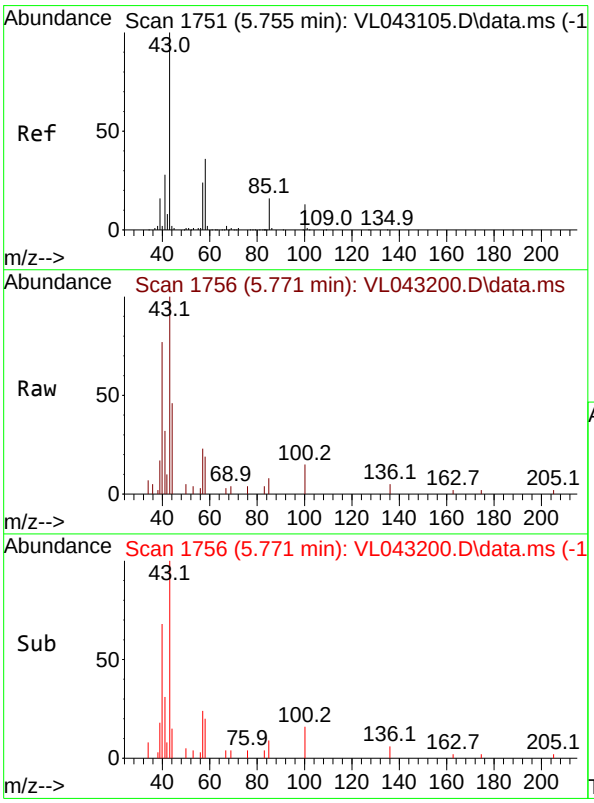
#41
Tetrahydrofuran
Concen: 0.218 ppbv
RT: 3.069 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 42 Resp: 2943

Ion	Ratio	Lower	Upper
42	100		
72	24.3	31.3	46.9#
71	10.2	30.4	45.6#

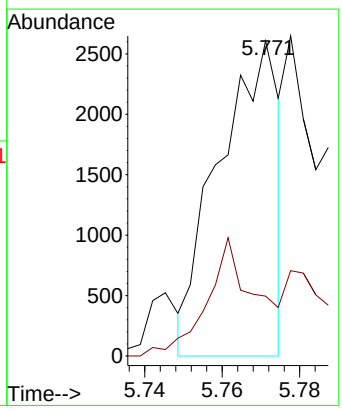


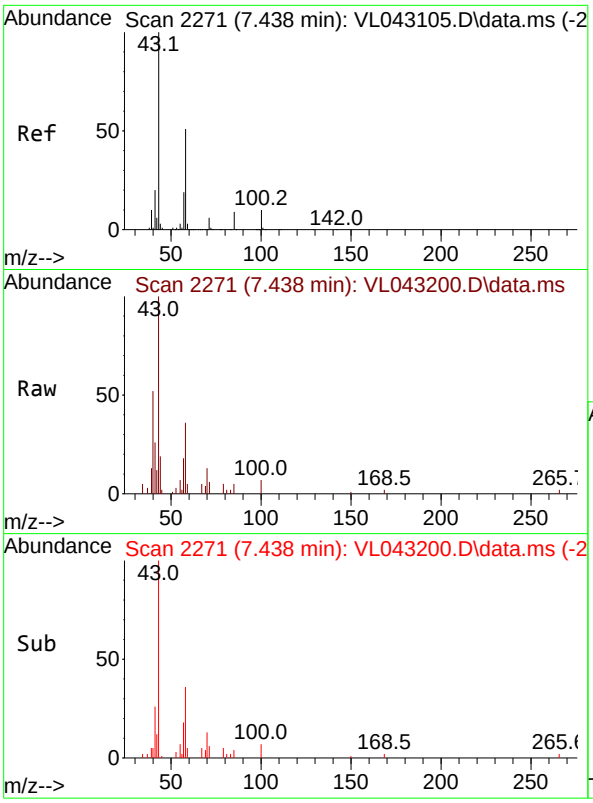


#50
4-Methyl-2-Pentanone
Concen: 0.084 ppbv
RT: 5.771 min Scan# 1756
Delta R.T. 0.016 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 43 Resp: 2797

Ion	Ratio	Lower	Upper
43	100		
58	63.6	29.1	43.7#



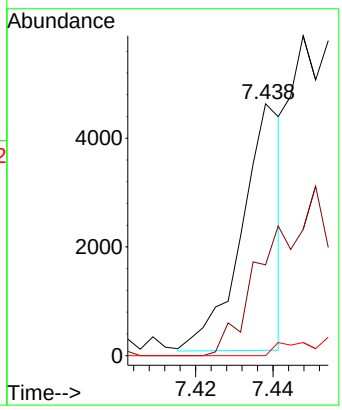


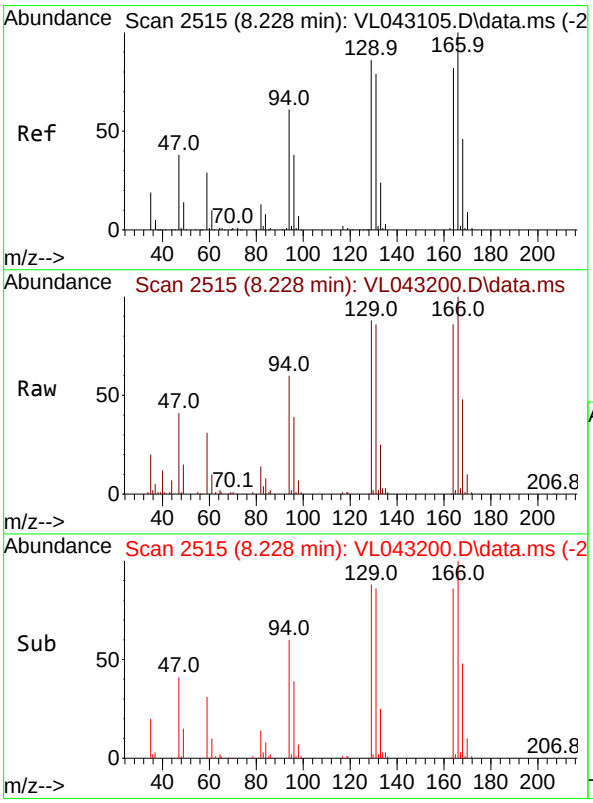
#51
2-Hexanone
Concen: 0.130 ppbv
RT: 7.438 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 43 Resp: 3254

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.4	60.6#
98	0.0	0.1	0.1#

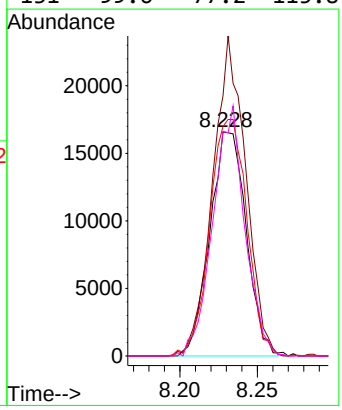


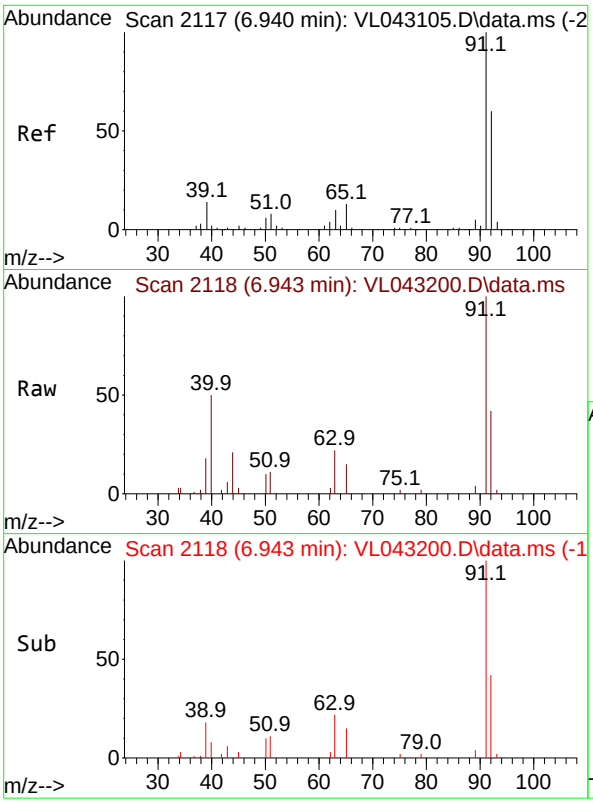


#52
Tetrachloroethene
Concen: 2.217 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:164 Resp: 27051

Ion	Ratio	Lower	Upper
164	100		
166	115.4	97.6	146.4
129	101.7	84.5	126.7
131	99.6	77.2	115.8



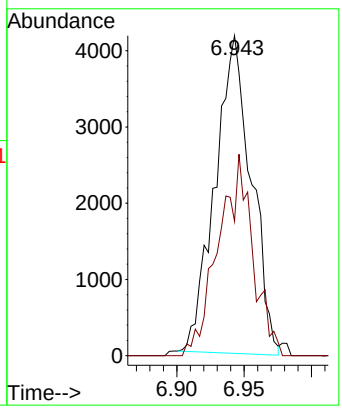


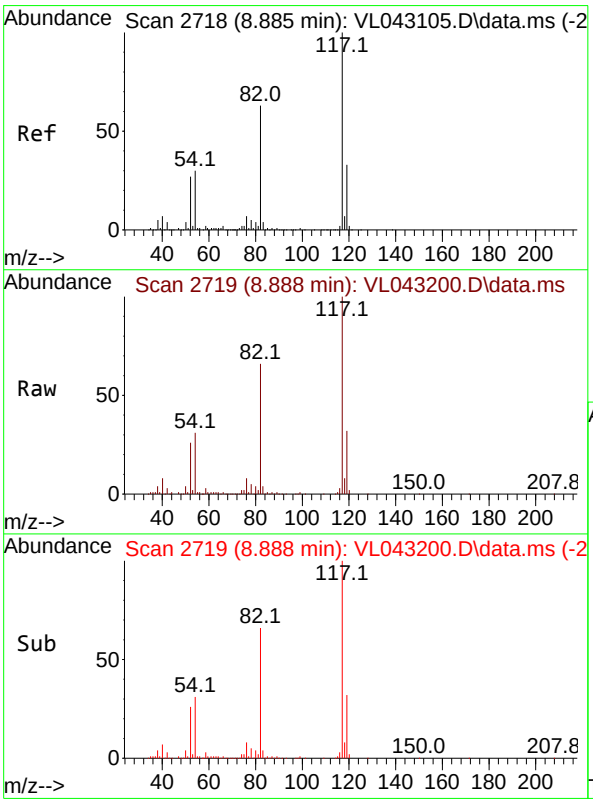
#53
Toluene
Concen: 0.194 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 91 Resp: 7803

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.8	73.2

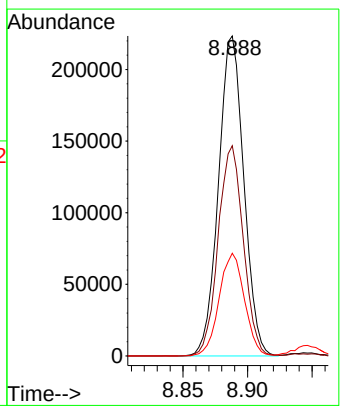


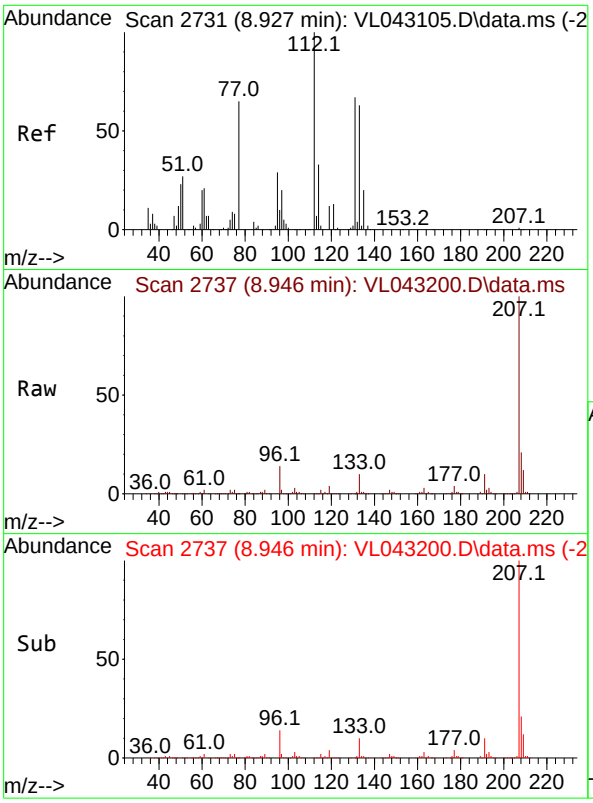


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:117 Resp: 305253

Ion	Ratio	Lower	Upper
117	100		
82	65.1	53.8	80.8
119	32.0	25.4	38.0



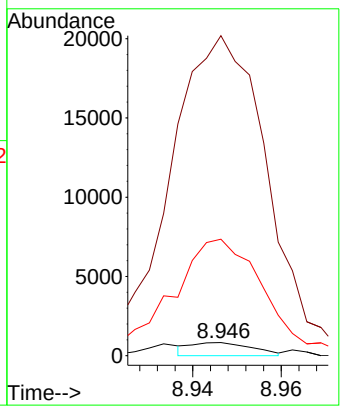


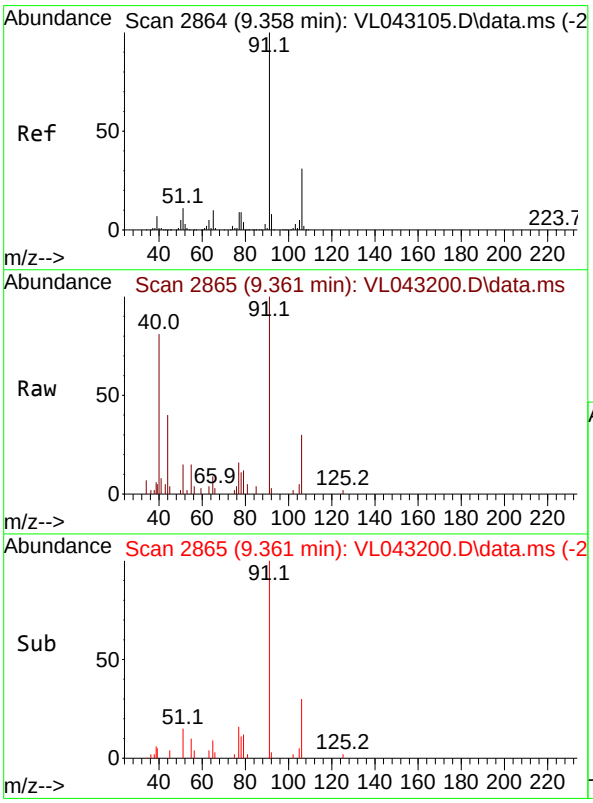
#56
1,1,1,2-Tetrachloroethane
Concen: 0.041 ppbv
RT: 8.946 min Scan# 2
Delta R.T. 0.019 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion:131 Resp: 792

Ion	Ratio	Lower	Upper
131	100		
133	4002.0	75.7	113.5#
119	1338.5	50.6	76.0#

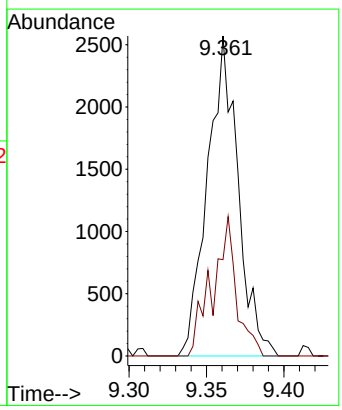


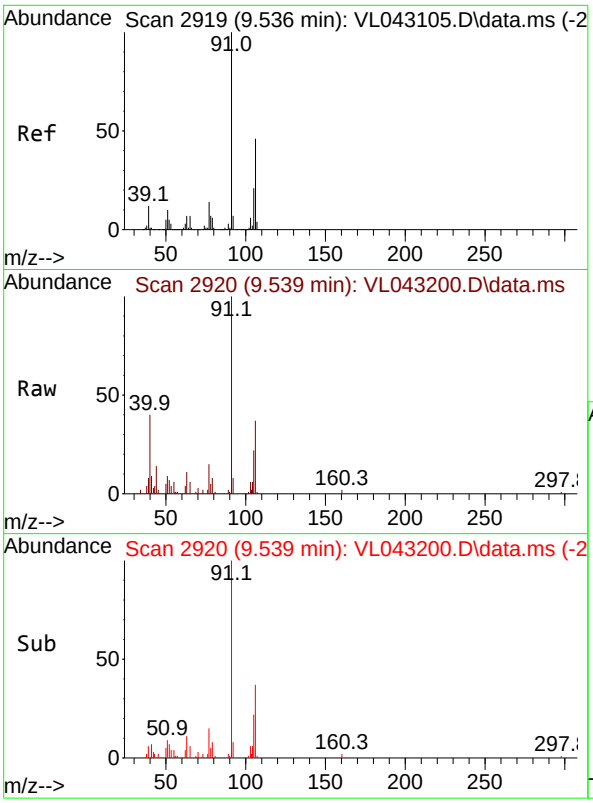


#58
Ethyl Benzene
Concen: 0.067 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 91 Resp: 3525

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.8	37.2



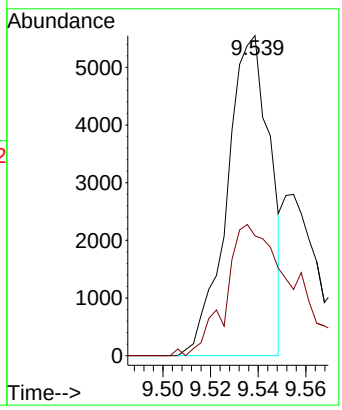


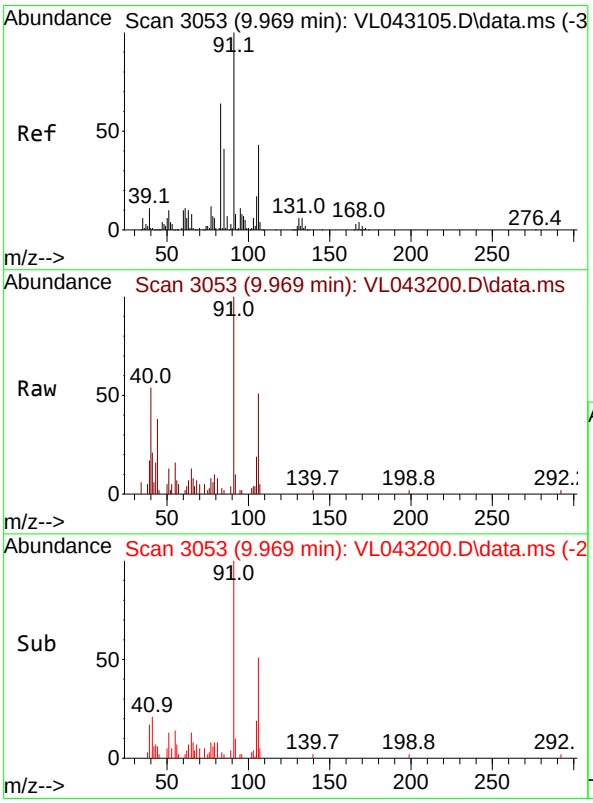
#59
m/p-Xylene
Concen: 0.167 ppbv
RT: 9.539 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 91 Resp: 6977

Ion	Ratio	Lower	Upper
91	100		
106	63.5	38.0	57.0#

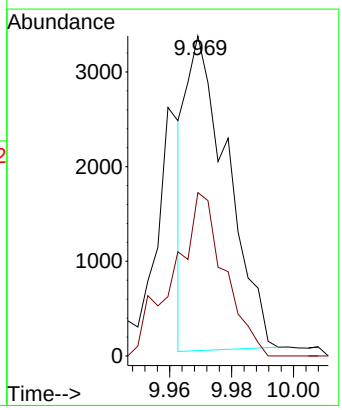


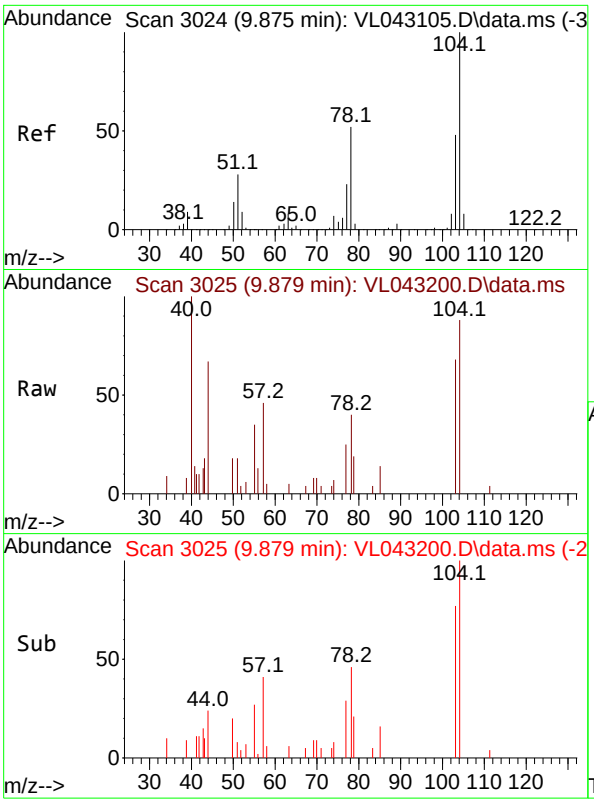


#60
o-Xylene
Concen: 0.075 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 91 Resp: 3090

Ion	Ratio	Lower	Upper
91	100		
106	63.6	21.9	65.8



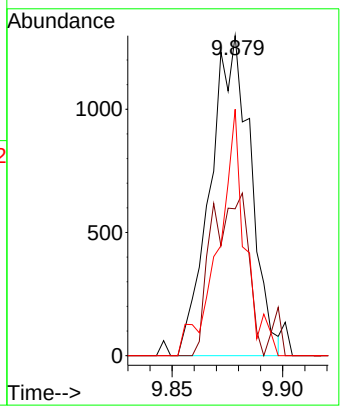


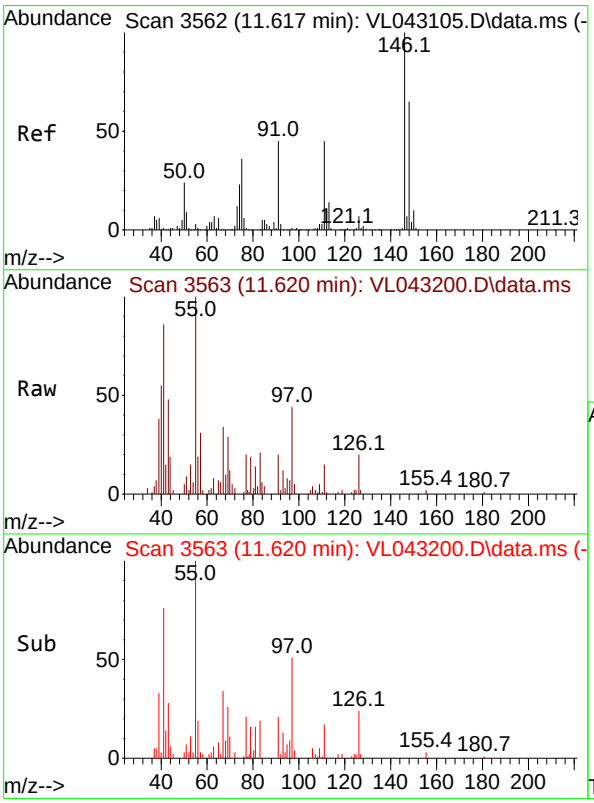
#61
Styrene
Concen: 0.088 ppbv
RT: 9.879 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion:104 Resp: 1645

Ion	Ratio	Lower	Upper
104	100		
78	49.1	40.2	60.2
103	51.0	36.9	55.3

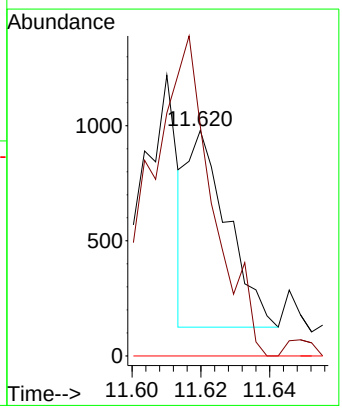


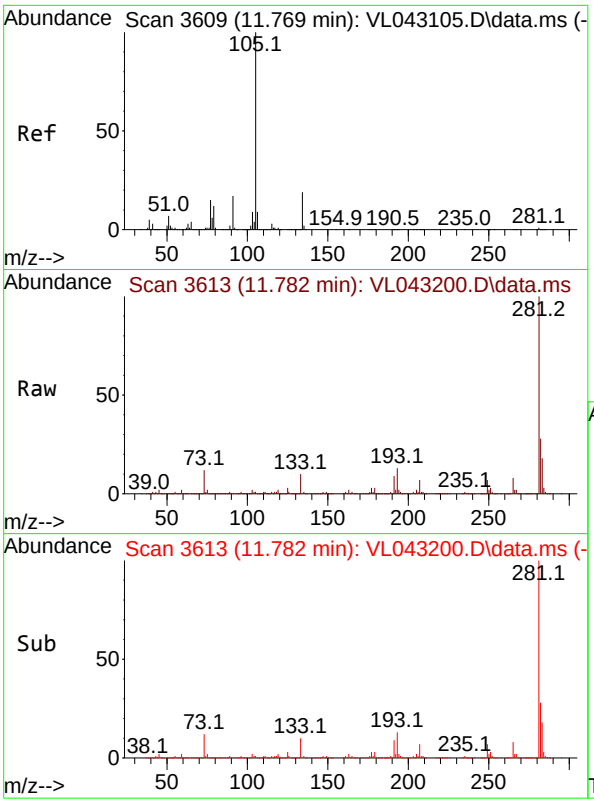


#66
Benzyl Chloride
Concen: 0.095 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 91 Resp: 696

Ion	Ratio	Lower	Upper
91	100		
126	275.4	14.6	22.0#
128	0.0	4.6	6.8#



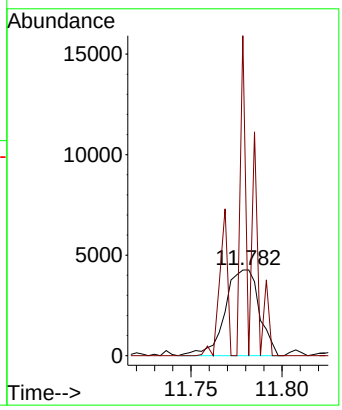


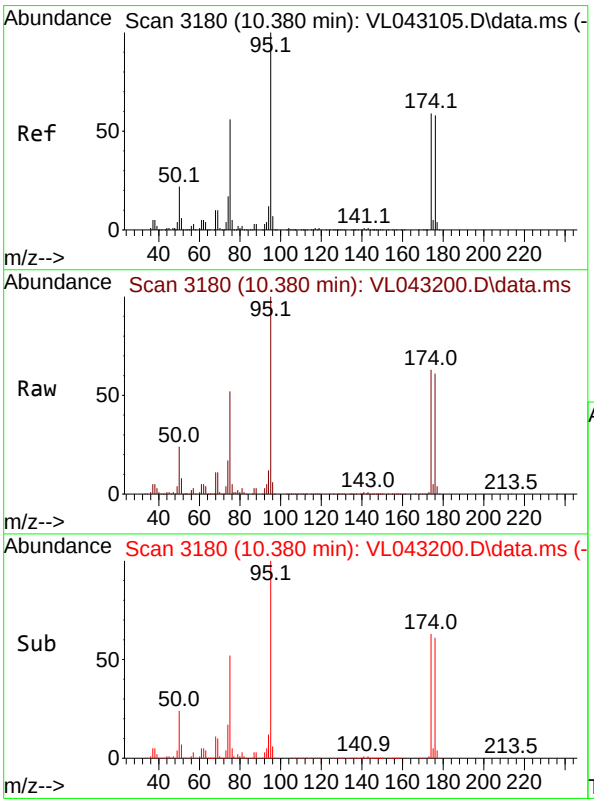
#67
sec-Butylbenzene
Concen: 0.060 ppbv
RT: 11.782 min Scan# 3
Delta R.T. 0.013 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion:105 Resp: 5563

Ion	Ratio	Lower	Upper
105	100		
134	147.3	15.5	23.3#

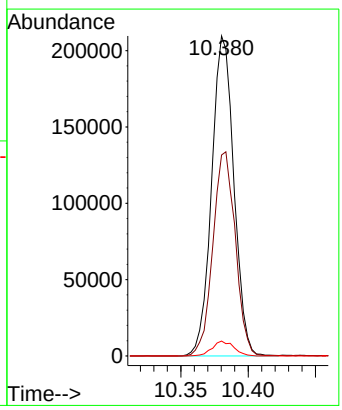


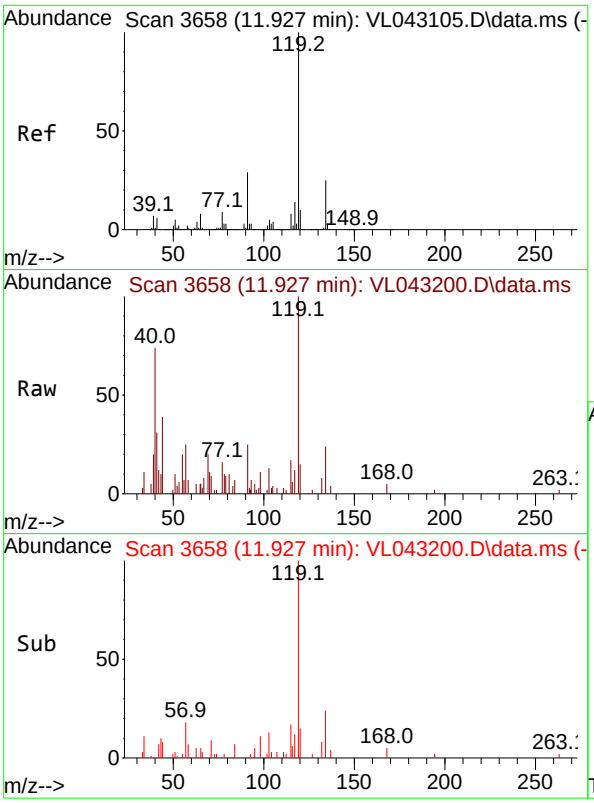


#68
1-Bromo-4-Fluorobenzene
Concen: 10.136 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 95 Resp: 240491

Ion	Ratio	Lower	Upper
95	100		
174	64.5	48.3	72.5
175	4.5	3.8	5.8



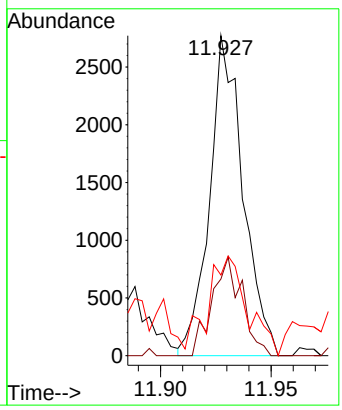


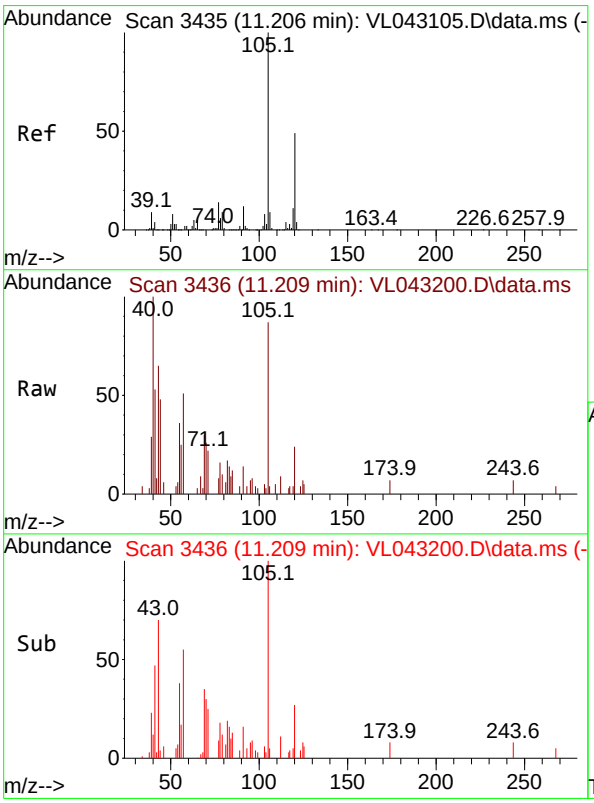
#69
p-Isopropyltoluene
Concen: 0.037 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion:119 Resp: 2918

Ion	Ratio	Lower	Upper
119	100		
134	27.8	20.3	30.5
91	22.5	22.6	33.8#

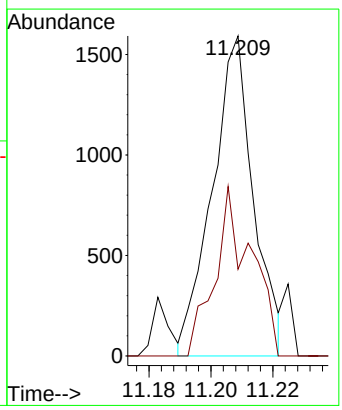


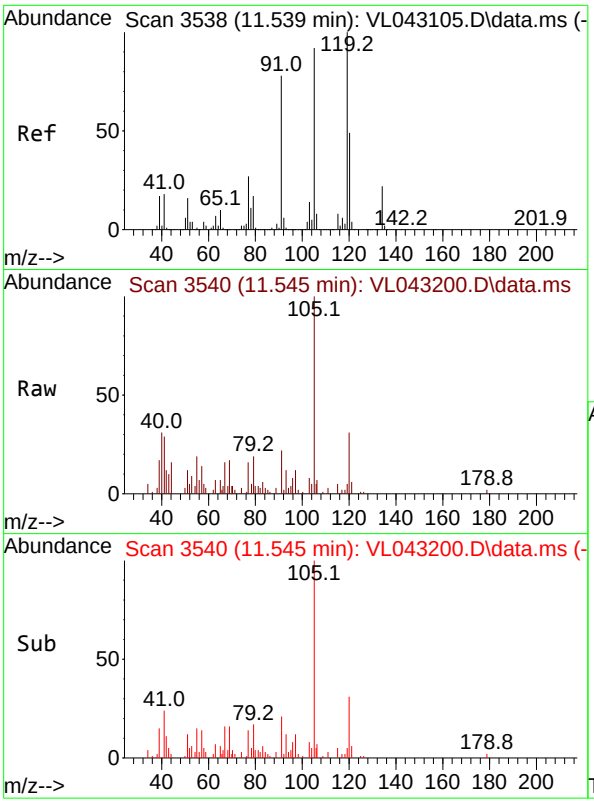


#73
1,3,5-Trimethylbenzene
Concen: 0.035 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:105 Resp: 1471

Ion	Ratio	Lower	Upper
105	100		
120	28.2	39.0	58.6#



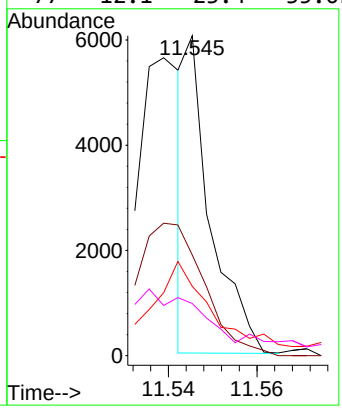


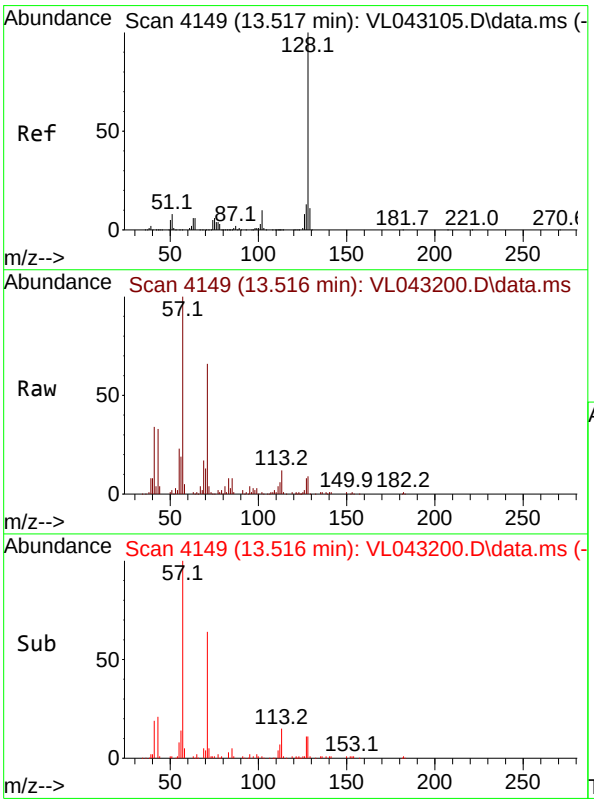
#74
1,2,4-Trimethylbenzene
Concen: 0.050 ppbv
RT: 11.545 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion:105 Resp: 2343

Ion	Ratio	Lower	Upper
105	100		
120	31.7	42.8	64.2#
91	18.3	68.3	102.5#
77	12.1	23.4	35.0#

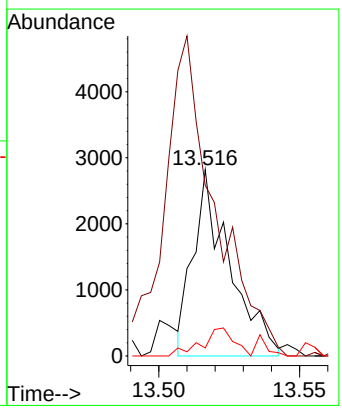




#79
Naphthalene
Concen: 0.052 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:128 Resp: 2529

Ion	Ratio	Lower	Upper
128	100		
127	92.1	10.5	15.7#
129	2.6	9.1	13.7#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043201.D
Acq On : 13 Nov 2025 15:58
Operator : SY/MD
Sample : Q3627-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Quant Time: Nov 14 04:41:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	147747	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	400343	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	381448	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	268804	9.066	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 90.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	4876	0.232	ppbv		93
3) Chlorodifluoromethane	1.470	51	3848456	169.343	ppbv	#	58
4) Chloromethane	1.537	50	3247	0.390	ppbv		96
5) Vinyl Chloride	1.492	62	325	0.040	ppbv	#	66
7) Chloroethane	1.470	64	877504	262.970	ppbv		98
9) Propene	1.489	41	41551	4.122	ppbv		92
10) Heptane	4.991	43	10313	0.355	ppbv		92
11) Trichlorofluoromethane	1.884	101	4177	0.203	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.146	101	730	0.044	ppbv	#	77
13) Ethanol	1.725	45	711495	190.837	ppbv		96
15) Acetone	1.839	43	491909	24.702	ppbv		92
16) 1,3-Butadiene	1.605	39	12554	1.323	ppbv	#	32
17) tert-Butyl alcohol	2.046	59	24573	0.899	ppbv		98
19) Isopropyl Alcohol	1.890	45	993000	80.062	ppbv	#	37
20) Methylene Chloride	2.068	84	5343	0.679	ppbv		91
21) Allyl Chloride	2.046	41	7415	0.505	ppbv	#	65
23) Vinyl Acetate	2.483	43	13886	0.476	ppbv	#	47
25) Ethyl Acetate	2.842	43	40715	0.824	ppbv	#	97
26) Hexane	2.835	57	18948	0.833	ppbv	#	91
27) Carbon Disulfide	2.156	76	12592	0.604	ppbv	#	57
29) Chloroform	2.855	83	5153	0.156	ppbv		93
30) Cyclohexane	3.871	84	2131	0.107	ppbv	#	1
31) cis-1,2-Dichloroethene	2.848	61	3477	0.160	ppbv	#	24
34) 2-Butanone	2.563	43	200156	7.438	ppbv		97
35) Carbon Tetrachloride	3.771	117	3124	0.109	ppbv	#	85
36) Benzene	3.664	78	33860	0.898	ppbv		96
38) Trichloroethene	4.564	130	2156	0.137	ppbv	#	80
39) 1,2-Dichloropropane	3.968	63	100133	7.264	ppbv	#	24
41) Tetrahydrofuran	3.068	42	6164	0.410	ppbv	#	71
44) 2,2,4-Trimethylpentane	4.654	57	2115	0.033	ppbv	#	1
50) 4-Methyl-2-Pentanone	5.761	43	196948	5.303	ppbv		97
51) 2-Hexanone	7.448	43	36538	1.312	ppbv	#	90
52) Tetrachloroethene	8.237	164	70881	5.213	ppbv		91
53) Toluene	6.949	91	31937	0.714	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.940	131	985	0.041	ppbv	#	9
58) Ethyl Benzene	9.360	91	9783	0.149	ppbv		95
59) m/p-Xylene	9.542	91	11480	0.220	ppbv	#	81
60) o-Xylene	9.969	91	4953	0.096	ppbv		92
61) Styrene	9.875	104	3586	0.154	ppbv		94
62) Isopropylbenzene	10.545	105	13362	0.143	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.985	83	2282	0.066	ppbv	#	2
66) Benzyl Chloride	11.623	91	2323	0.254	ppbv	#	31
67) sec-Butylbenzene	11.778	105	8262	0.071	ppbv	#	1

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043201.D
Acq On : 13 Nov 2025 15:58
Operator : SY/MD
Sample : Q3627-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Quant Time: Nov 14 04:41:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

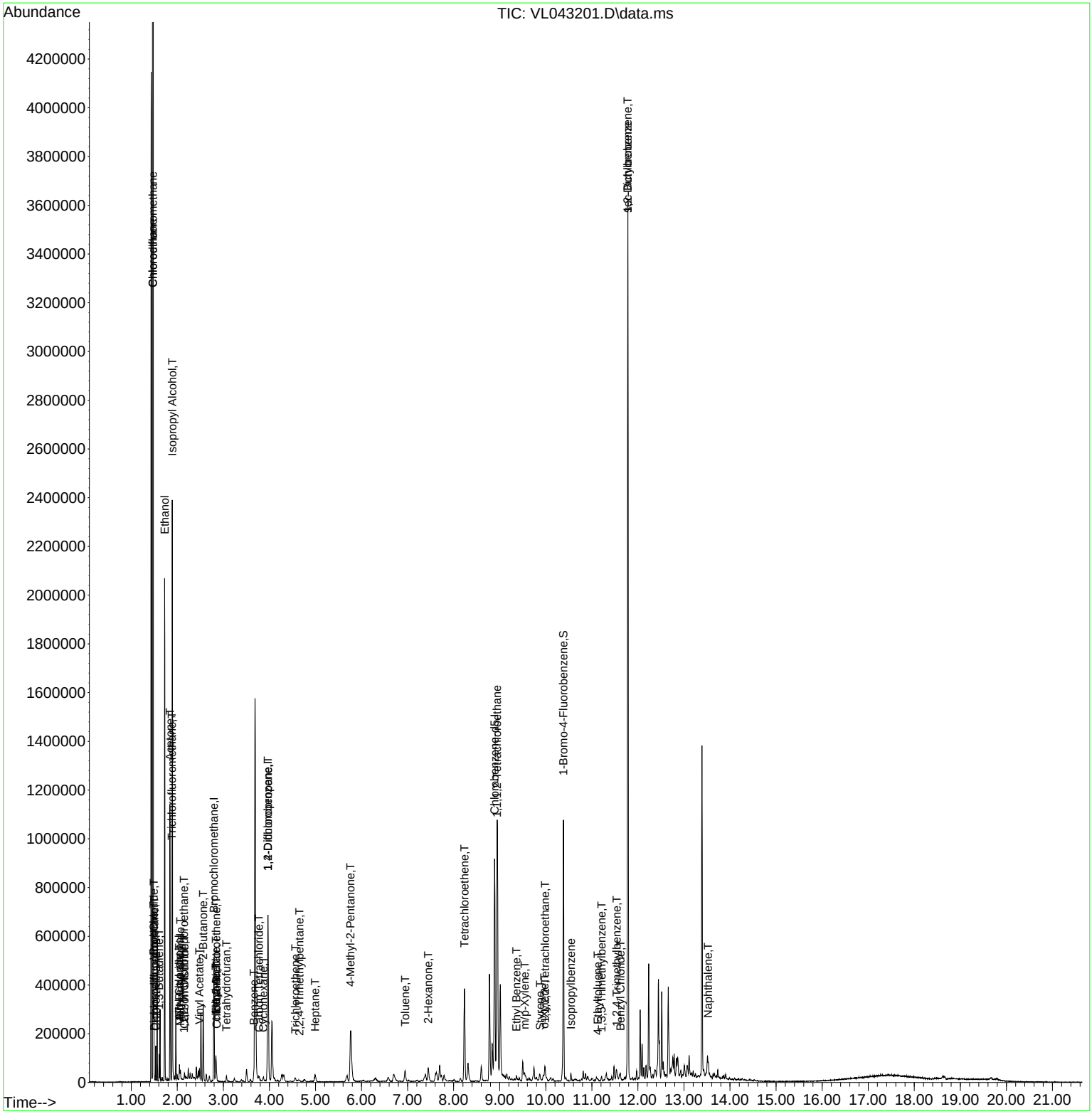
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	11.131	105	1959	0.031	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.212	105	2247	0.043	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	7762	0.133	ppbv #	60
77) 1,2-Dichlorobenzene	11.778	146	1191	0.036	ppbv #	1
79) Naphthalene	13.520	128	2239	0.037	ppbv #	23

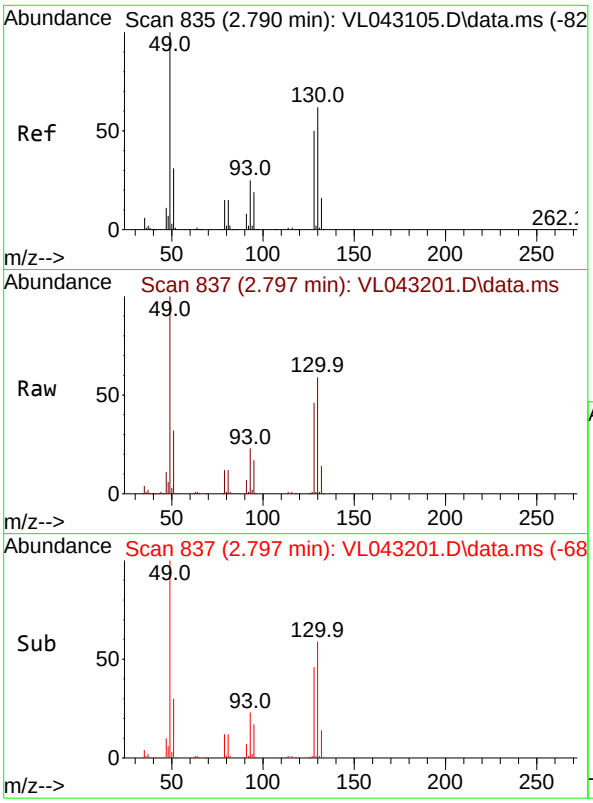
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043201.D
Acq On : 13 Nov 2025 15:58
Operator : SY/MD
Sample : Q3627-05 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Quant Time: Nov 14 04:41:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration



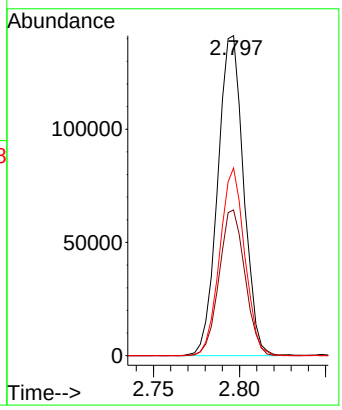


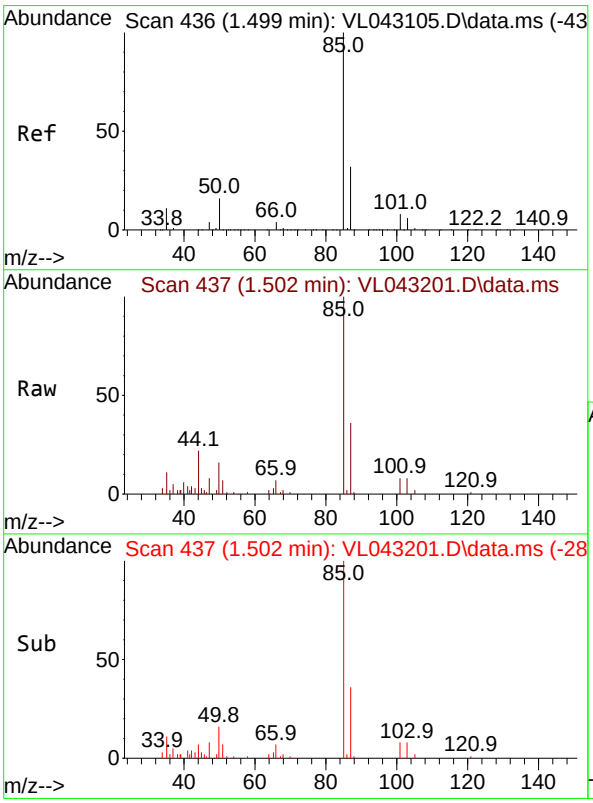
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 49 Resp: 147747

Ion	Ratio	Lower	Upper
49	100		
128	45.6	24.4	73.4
130	56.6	31.0	93.0

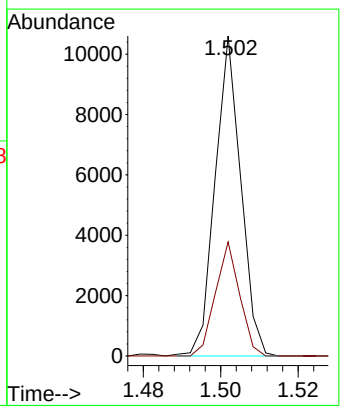


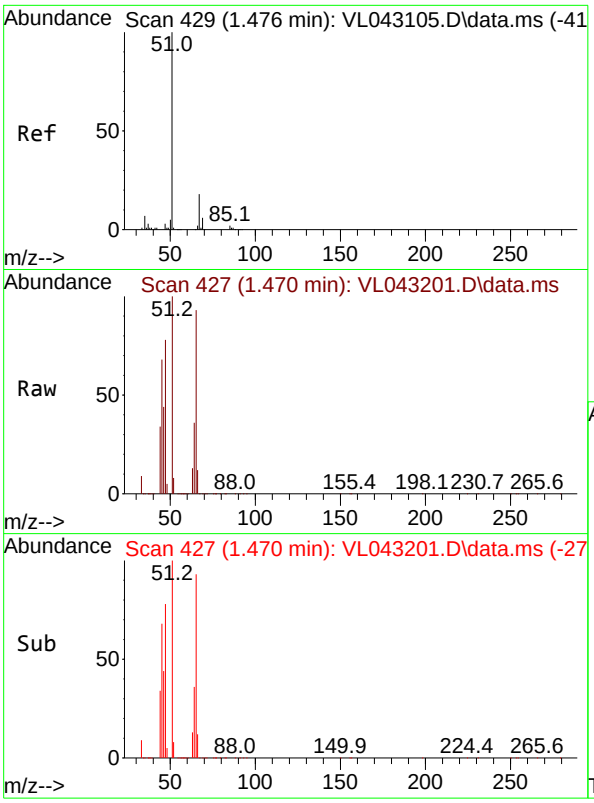


#2
Dichlorodifluoromethane
Concen: 0.232 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 85 Resp: 4876

Ion	Ratio	Lower	Upper
85	100		
87	35.7	25.3	37.9



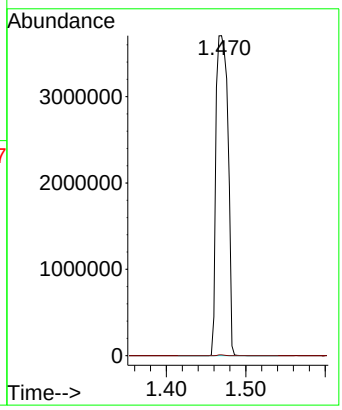


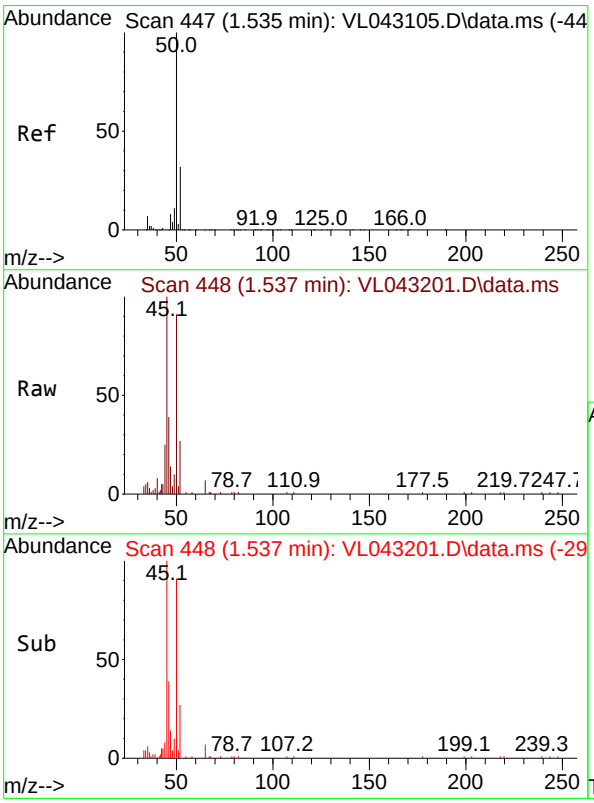
#3
Chlorodifluoromethane
Concen: 169.343 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 51 Resp: 3848456

Ion	Ratio	Lower	Upper
51	100		
67	0.2	15.1	22.7#

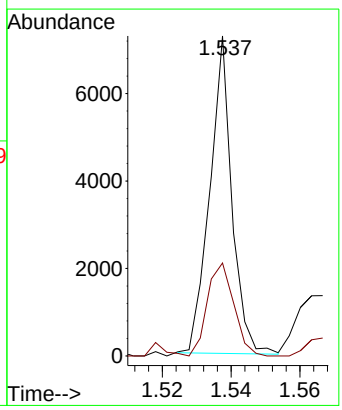


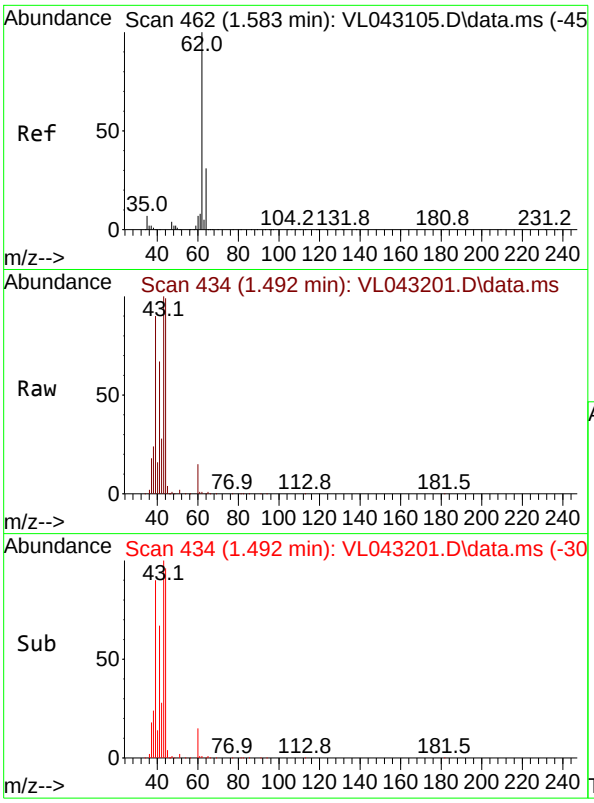


#4
Chloromethane
Concen: 0.390 ppbv
RT: 1.537 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 50 Resp: 3247

Ion	Ratio	Lower	Upper
50	100		
52	29.3	25.2	37.8



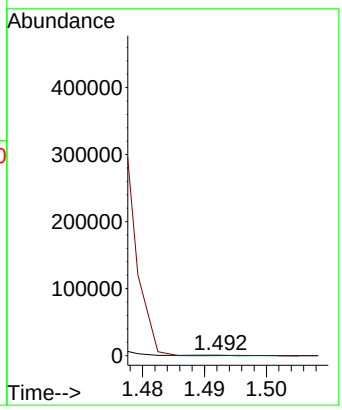


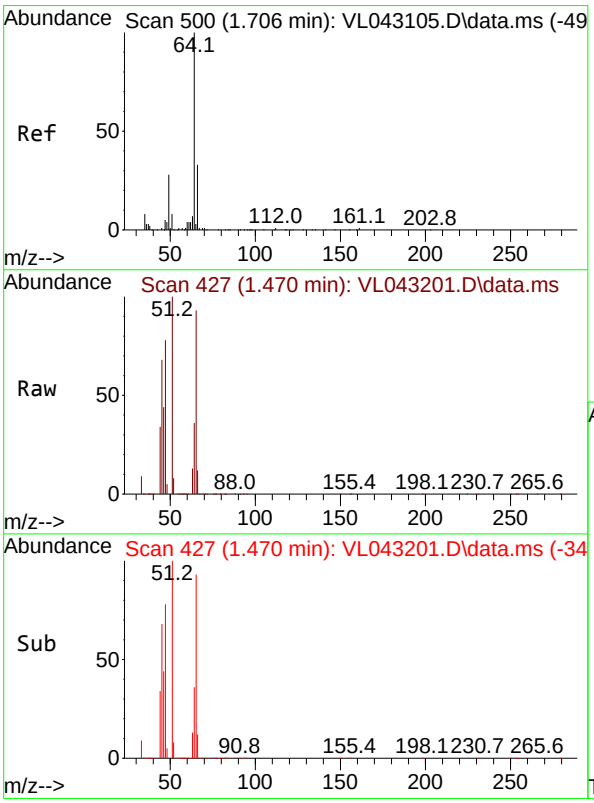
#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.492 min Scan# 4
Delta R.T. -0.091 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 62 Resp: 325

Ion	Ratio	Lower	Upper
62	100		
64	11.9	24.6	36.8#

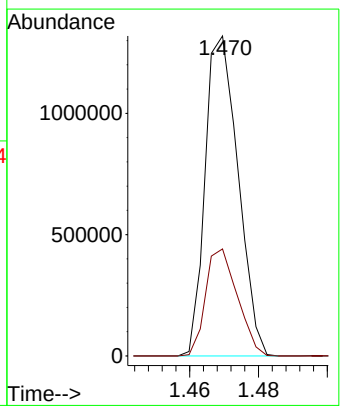


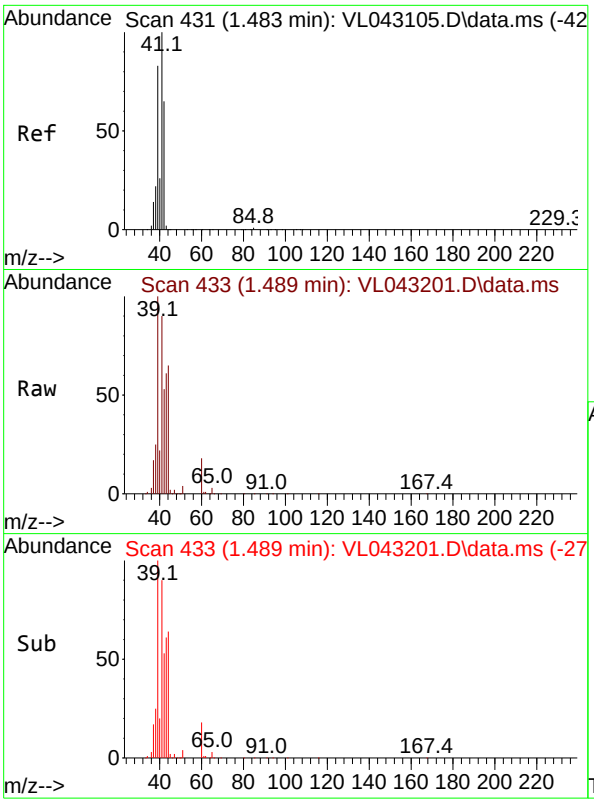


#7
Chloroethane
Concen: 262.970 ppbv
RT: 1.470 min Scan# 427
Delta R.T. -0.237 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 64 Resp: 877504

Ion	Ratio	Lower	Upper
64	100		
66	33.4	26.0	39.0



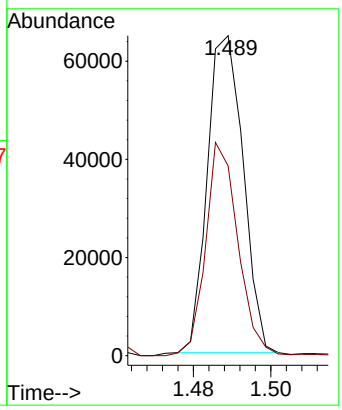


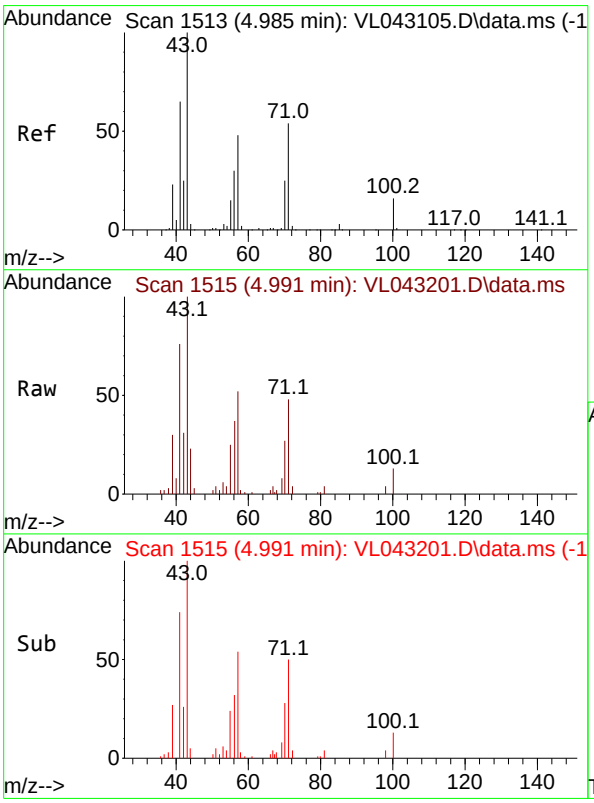
#9
Propene
Concen: 4.122 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 41 Resp: 41551

Ion	Ratio	Lower	Upper
41	100		
42	62.5	55.1	82.7

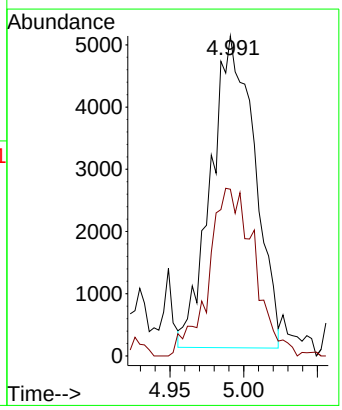


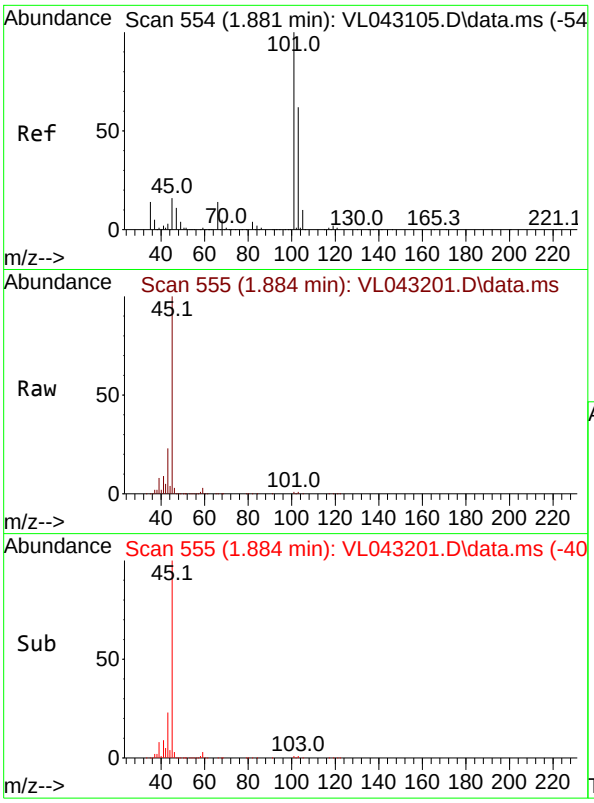


#10
Heptane
Concen: 0.355 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 43 Resp: 10313

Ion	Ratio	Lower	Upper
43	100		
57	56.5	40.8	61.2



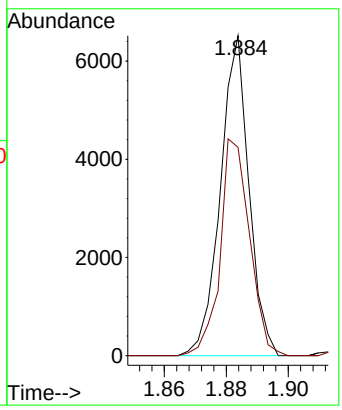


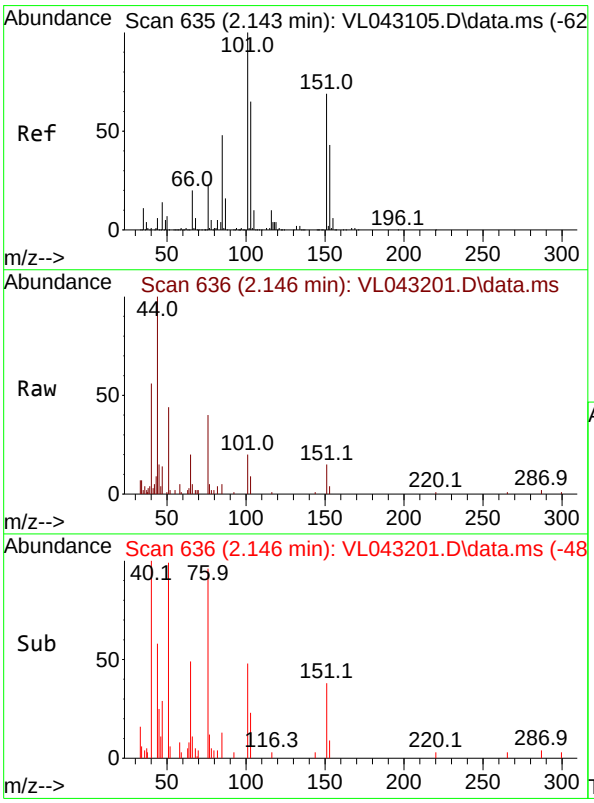
#11
Trichlorofluoromethane
Concen: 0.203 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion:101 Resp: 4177

Ion	Ratio	Lower	Upper
101	100		
103	65.1	49.3	73.9

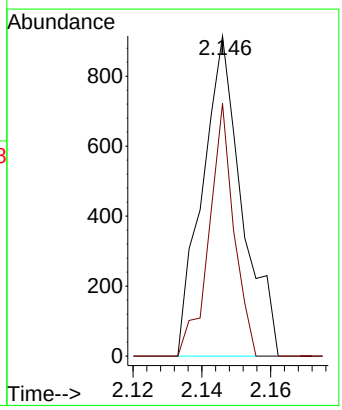


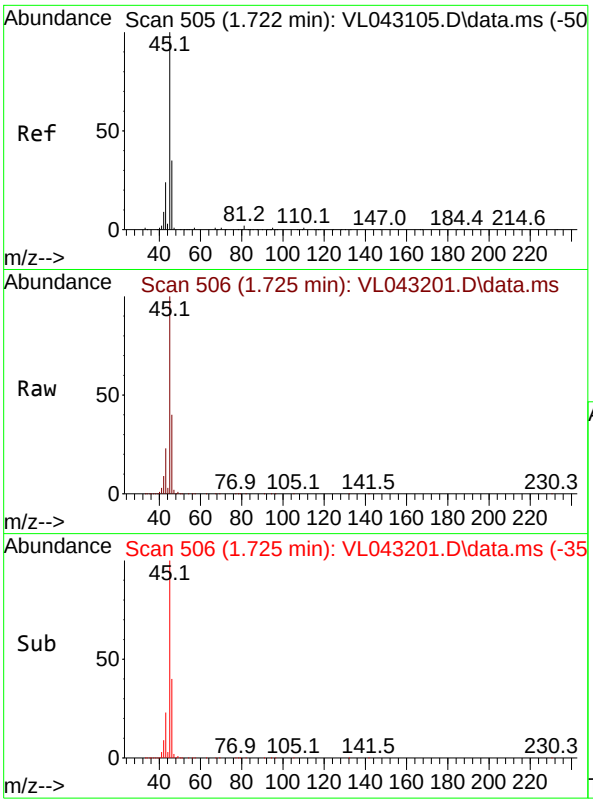


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.044 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:101 Resp: 730

Ion	Ratio	Lower	Upper
101	100		
151	49.6	54.7	82.1#



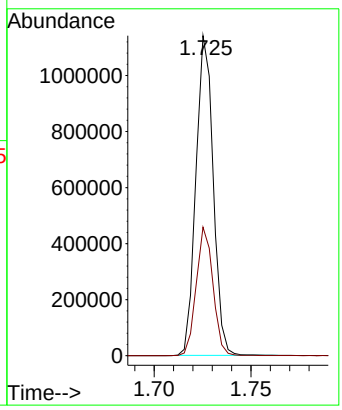


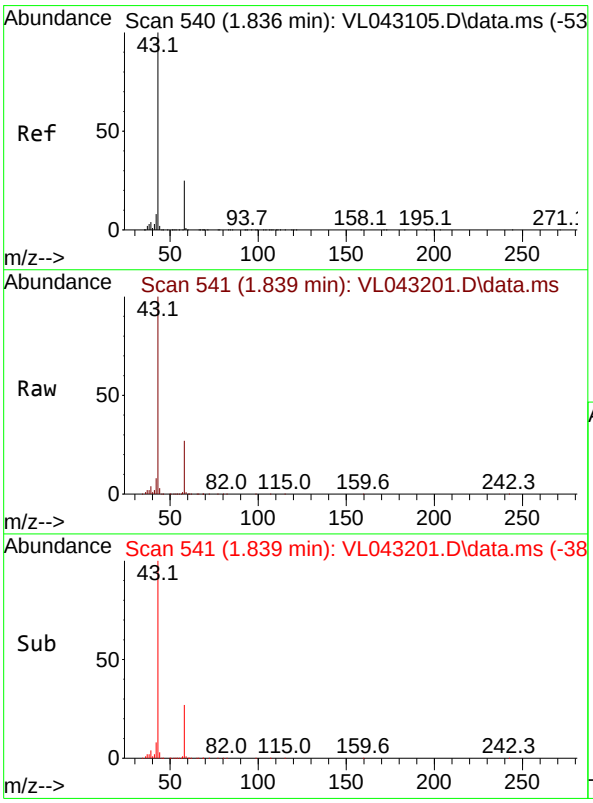
#13
Ethanol
Concen: 190.837 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 45 Resp: 711495

Ion	Ratio	Lower	Upper
45	100		
46	39.2	14.7	58.9

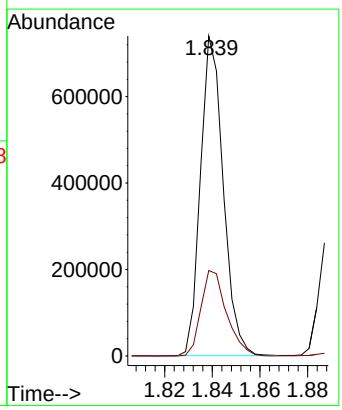


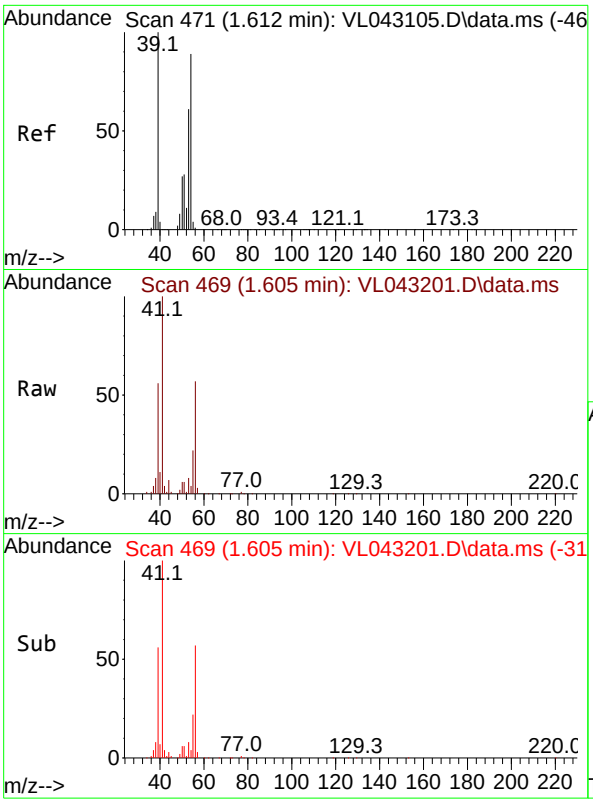


#15
Acetone
Concen: 24.702 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 43 Resp: 491909

Ion	Ratio	Lower	Upper
43	100		
58	30.0	20.8	31.2



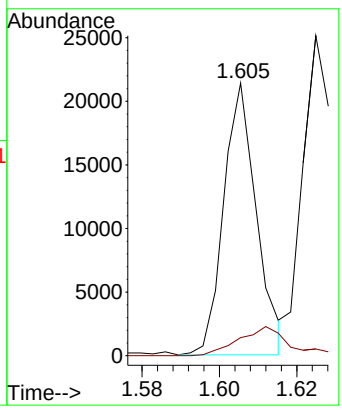


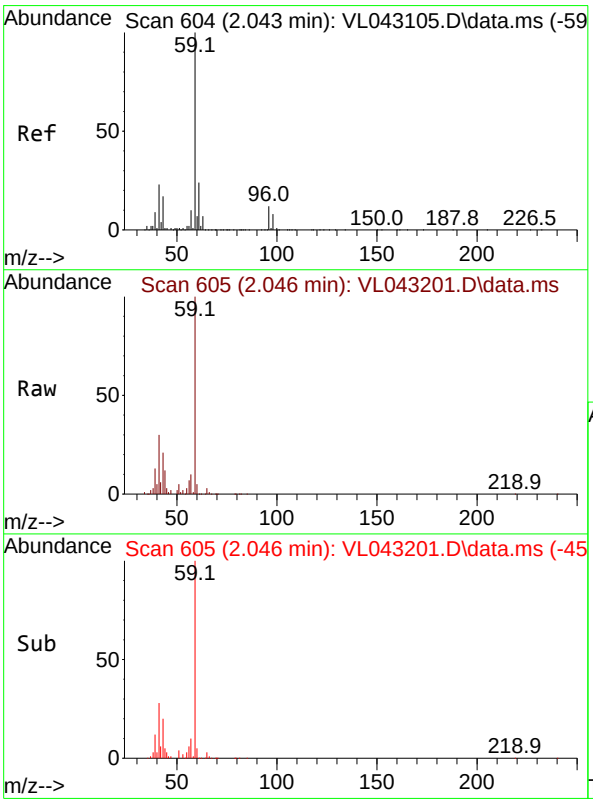
#16
1,3-Butadiene
Concen: 1.323 ppbv
RT: 1.605 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 39 Resp: 12554

Ion	Ratio	Lower	Upper
39	100		
54	16.4	59.0	88.4#

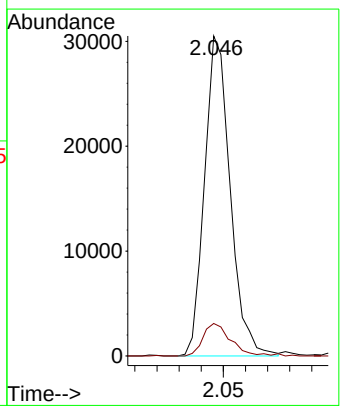


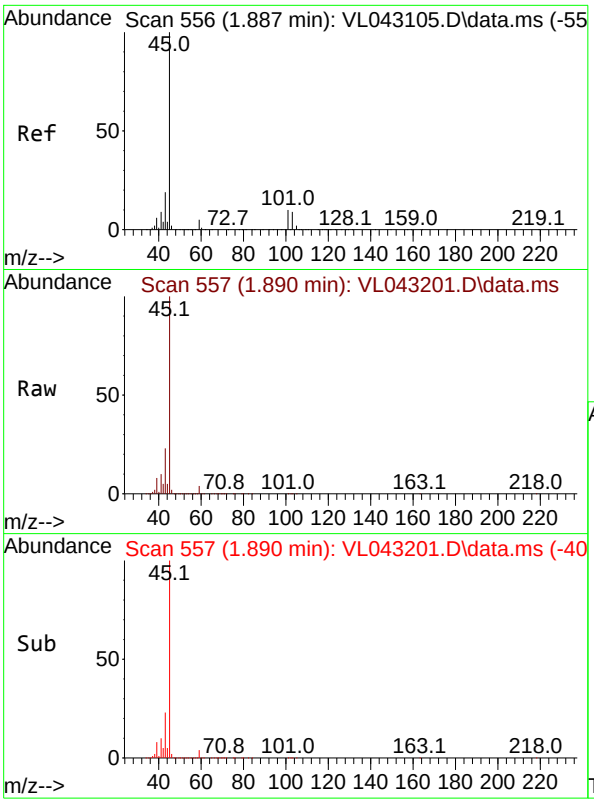


#17
tert-Butyl alcohol
Concen: 0.899 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 59 Resp: 24573

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.2	12.4



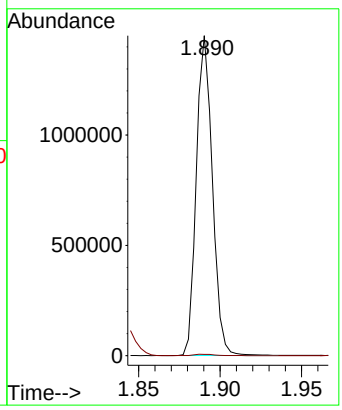


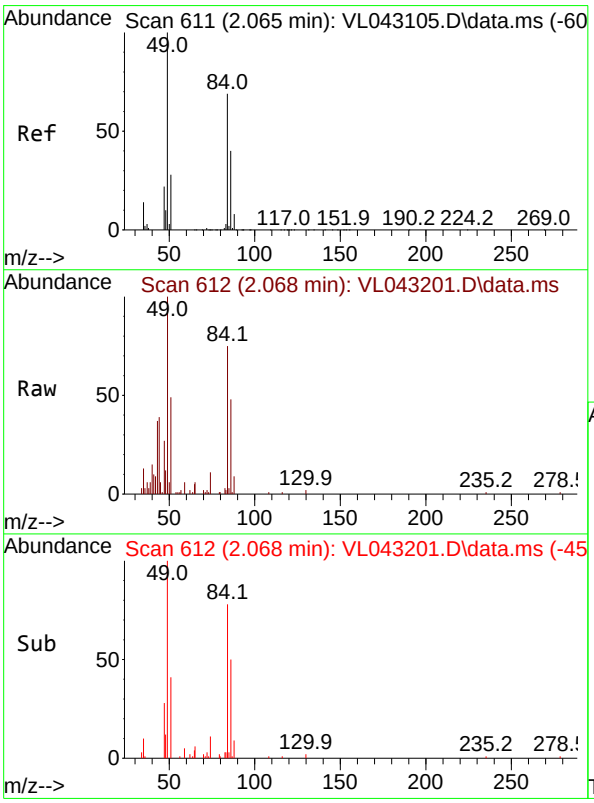
#19
Isopropyl Alcohol
Concen: 80.062 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 45 Resp: 993000

Ion	Ratio	Lower	Upper
45	100		
58	0.6	31.3	46.9#

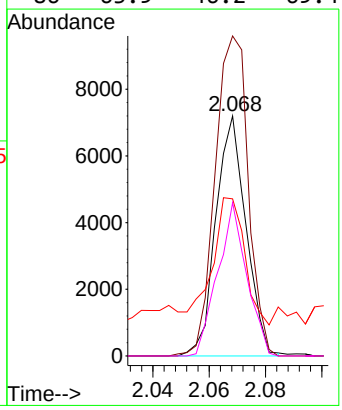


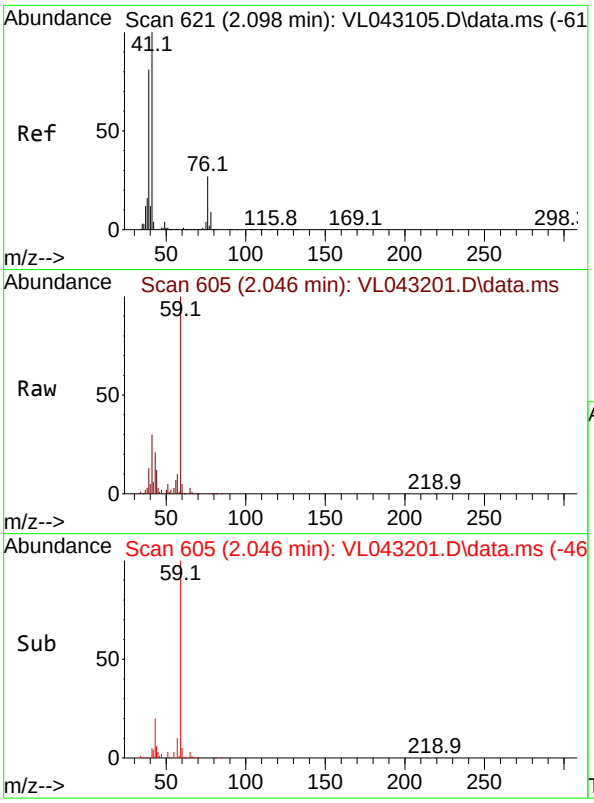


#20
Methylene Chloride
Concen: 0.679 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 84 Resp: 5343

Ion	Ratio	Lower	Upper
84	100		
49	133.4	116.6	175.0
51	47.1	34.8	52.2
86	63.9	46.2	69.4



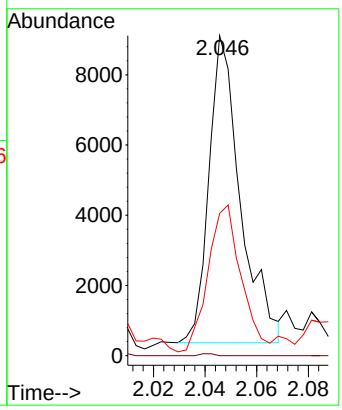


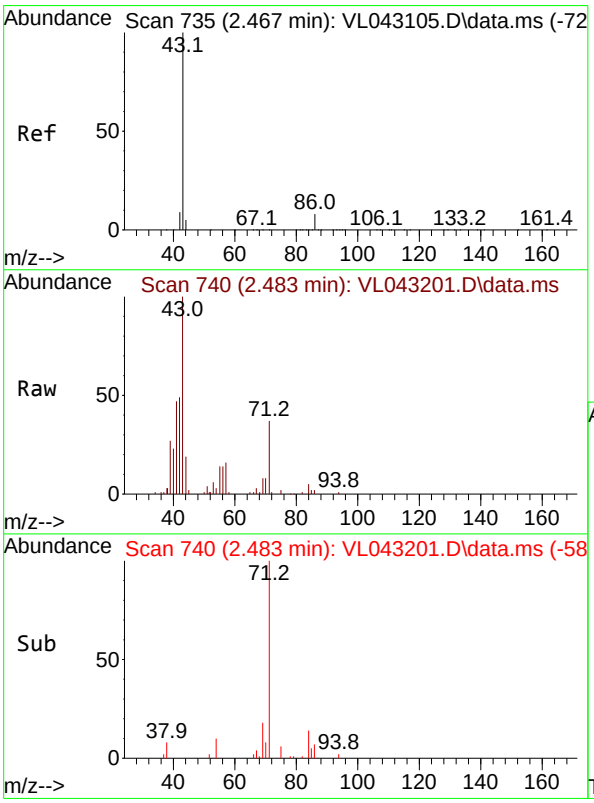
#21
Allyl Chloride
Concen: 0.505 ppbv
RT: 2.046 min Scan# 6
Delta R.T. -0.052 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 41 Resp: 7415

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.5	32.3#
39	51.1	60.8	91.2#

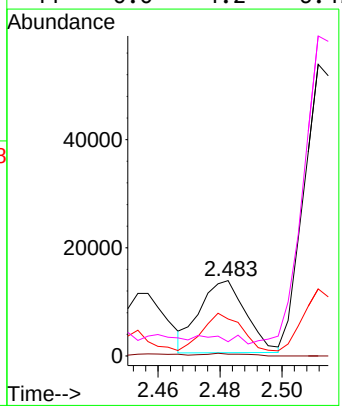


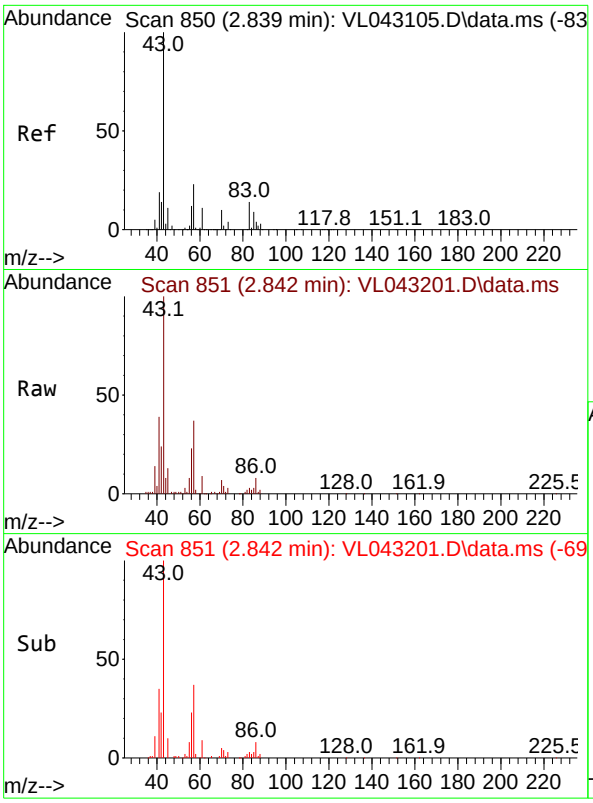


#23
Vinyl Acetate
Concen: 0.476 ppbv
RT: 2.483 min Scan# 740
Delta R.T. 0.016 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 43 Resp: 13886

Ion	Ratio	Lower	Upper
43	100		
86	2.7	6.2	9.2#
42	47.8	7.6	11.4#
44	0.0	4.2	6.4#



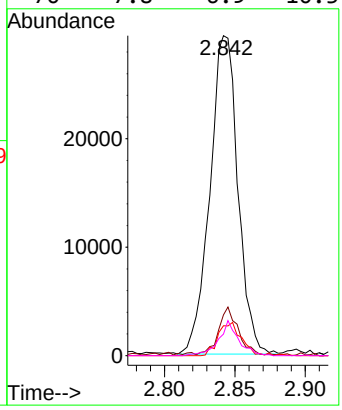


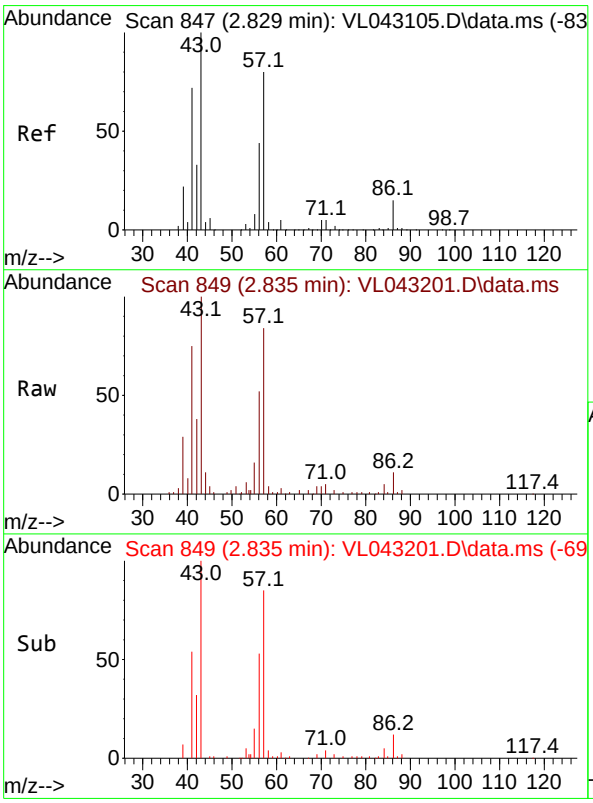
#25
Ethyl Acetate
Concen: 0.824 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 43 Resp: 40715

Ion	Ratio	Lower	Upper
43	100		
45	12.0	7.8	11.8#
61	8.8	7.0	10.6
70	7.8	6.9	10.3

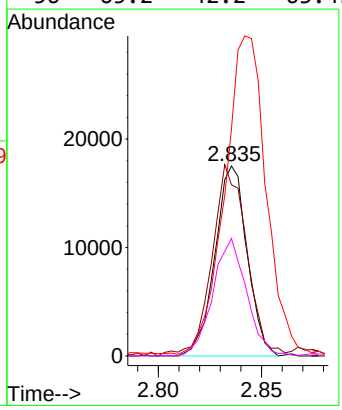


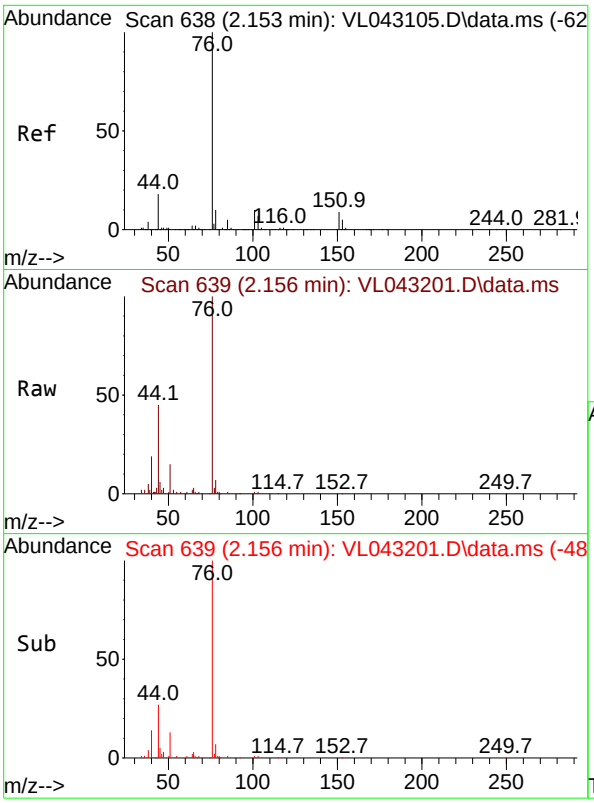


#26
Hexane
Concen: 0.833 ppbv
RT: 2.835 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 57 Resp: 18948

Ion	Ratio	Lower	Upper
57	100		
41	108.4	71.4	107.0#
43	218.2	178.5	267.7
56	65.2	42.2	63.4#



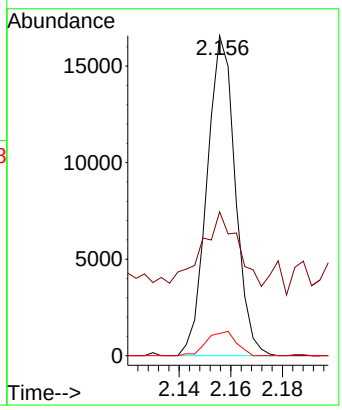


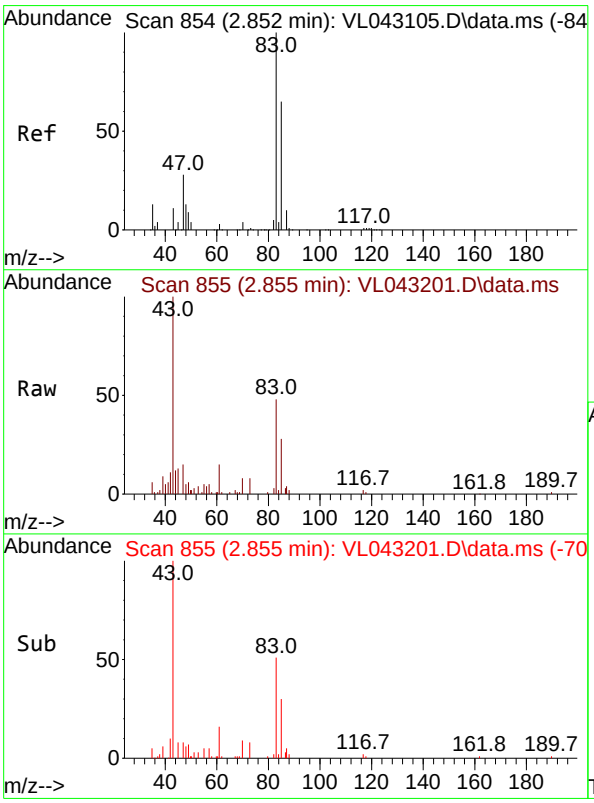
#27
Carbon Disulfide
Concen: 0.604 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 76 Resp: 12592

Ion	Ratio	Lower	Upper
76	100		
44	49.6	16.7	25.1#
78	7.9	9.3	13.9#

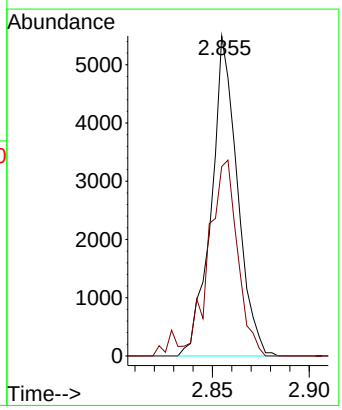


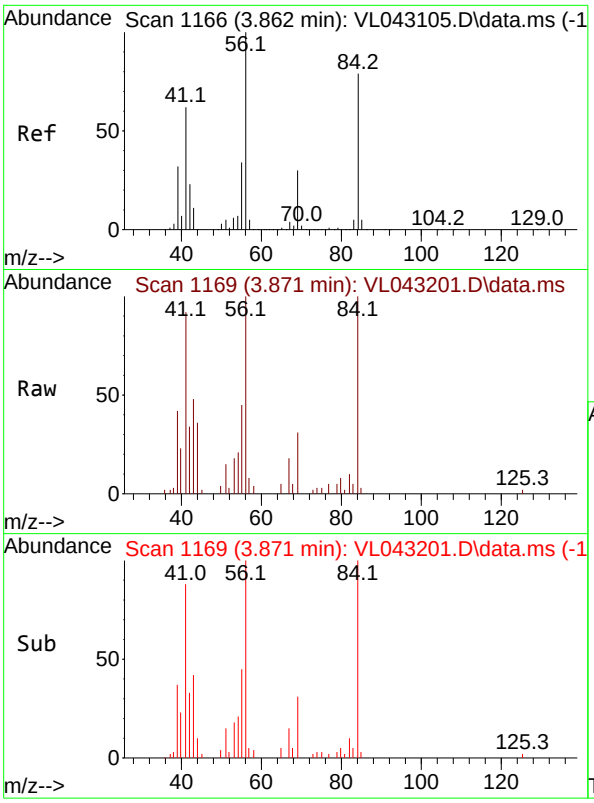


#29
Chloroform
Concen: 0.156 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 83 Resp: 5153

Ion	Ratio	Lower	Upper
83	100		
85	59.2	51.8	77.6



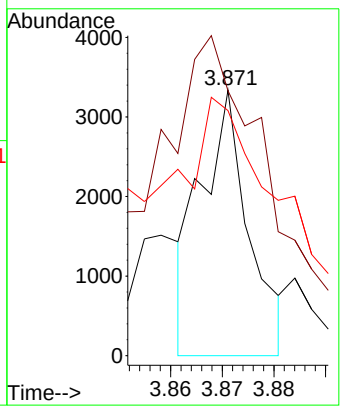


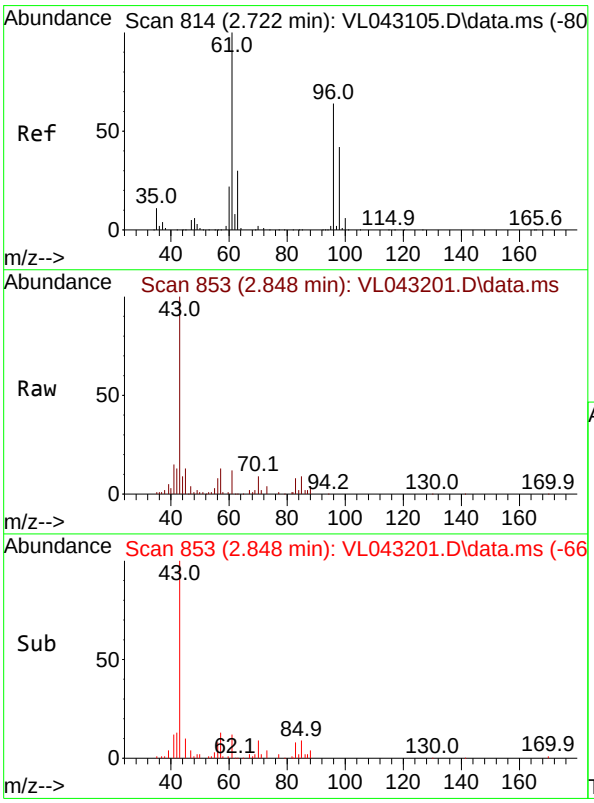
#30
Cyclohexane
Concen: 0.107 ppbv
RT: 3.871 min Scan# 11
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 84 Resp: 2131

Ion	Ratio	Lower	Upper
84	100		
56	0.0	100.9	151.3#
41	0.0	63.8	95.6#

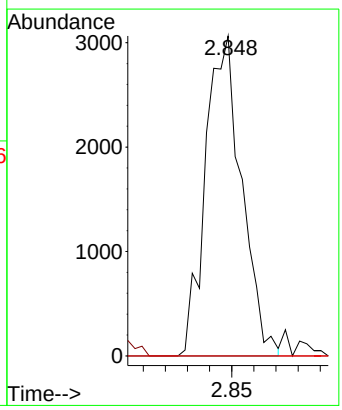


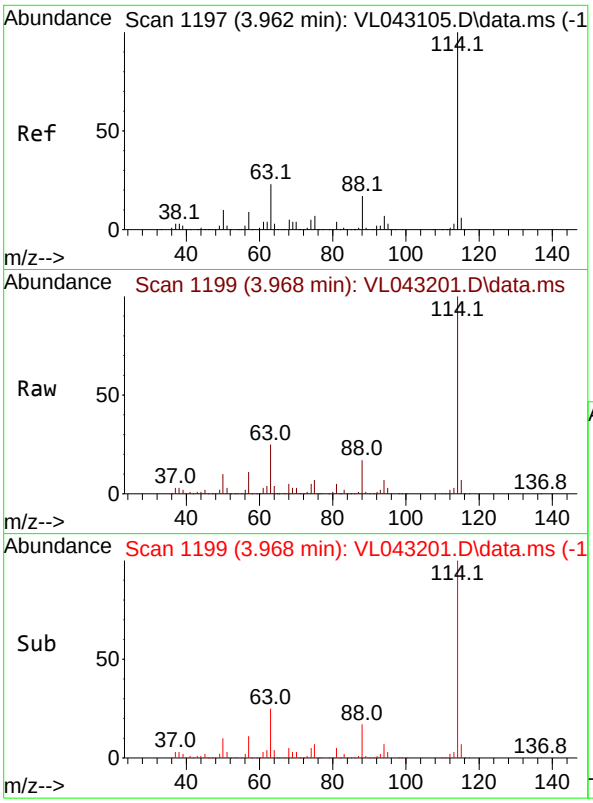


#31
cis-1,2-Dichloroethene
Concen: 0.160 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.126 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 61 Resp: 3477

Ion	Ratio	Lower	Upper
61	100		
96	0.0	51.0	76.6#
98	0.0	33.5	50.3#



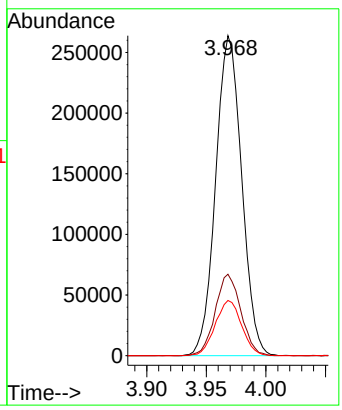


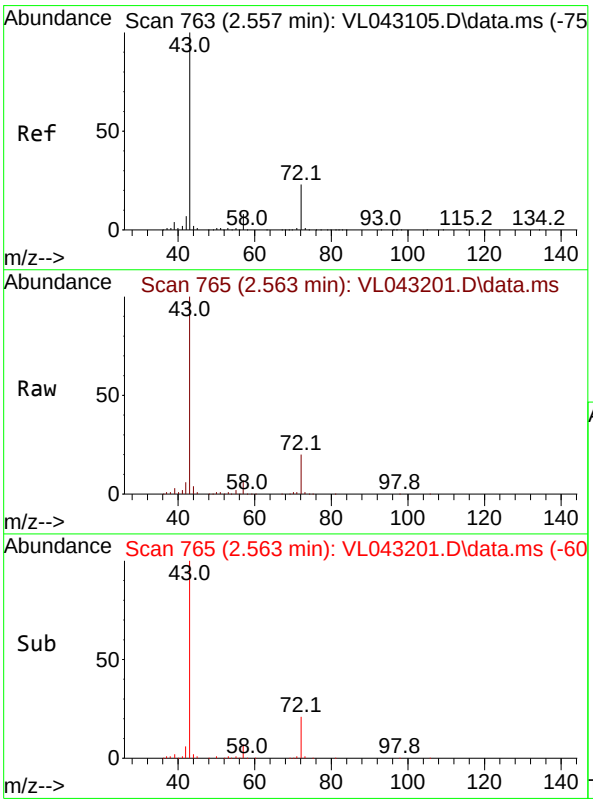
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion:114 Resp: 400343

Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.3	28.9
88	17.5	13.9	20.9

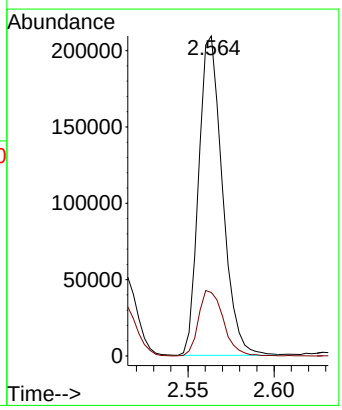


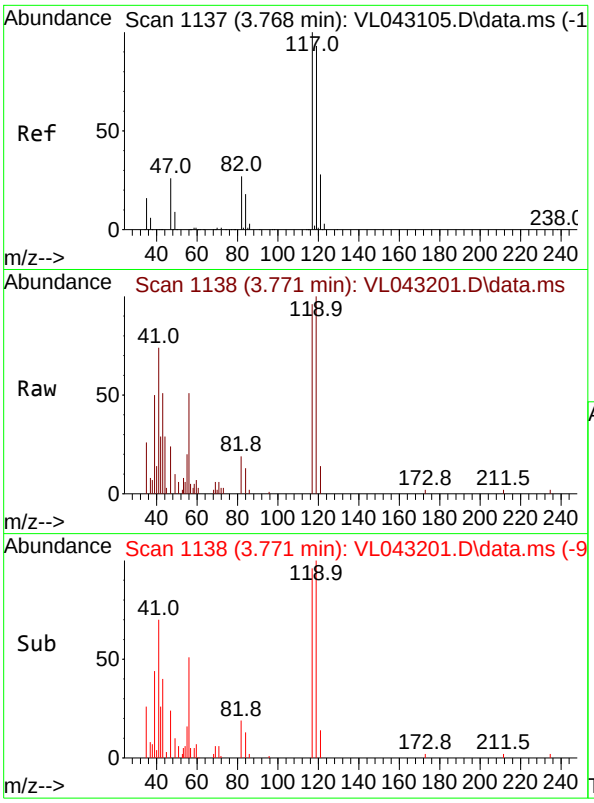


#34
2-Butanone
Concen: 7.438 ppbv
RT: 2.563 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 43 Resp: 200156

Ion	Ratio	Lower	Upper
43	100		
72	21.5	18.4	27.6



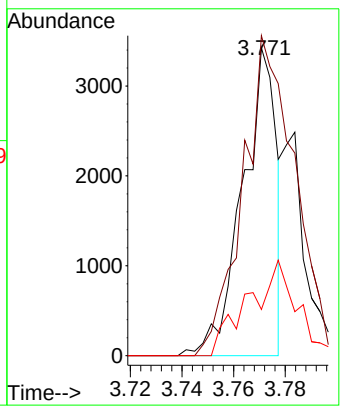


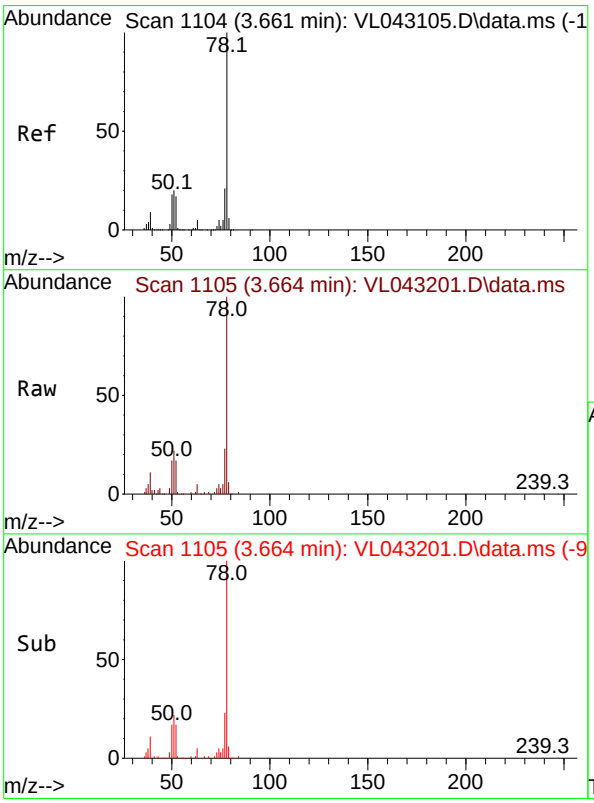
#35
Carbon Tetrachloride
Concen: 0.109 ppbv
RT: 3.771 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion:117 Resp: 3124

Ion	Ratio	Lower	Upper
117	100		
119	103.9	74.1	111.1
121	15.0	22.2	33.2#

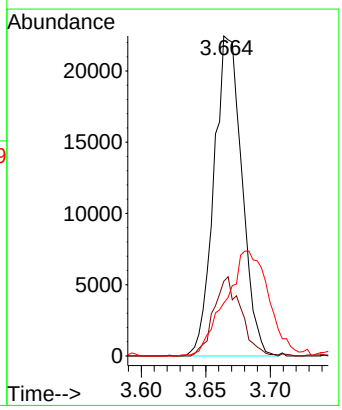


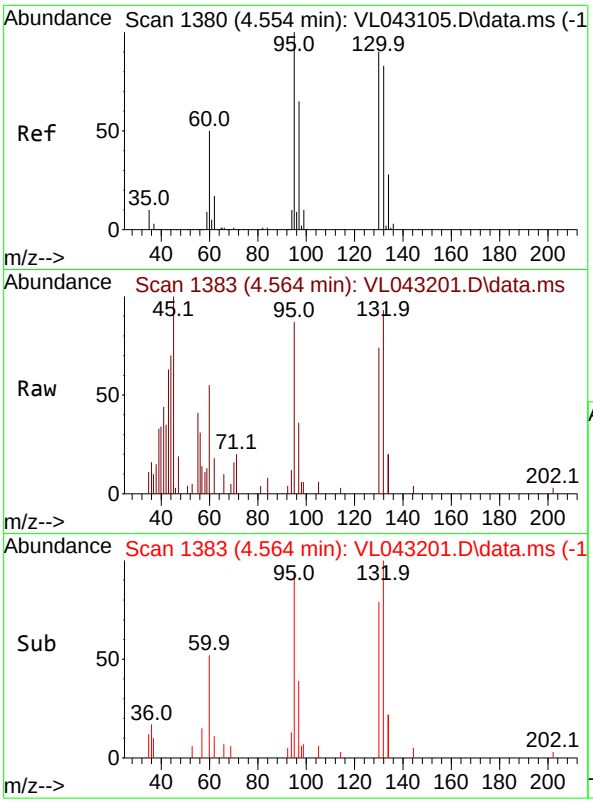


#36
Benzene
Concen: 0.898 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 78 Resp: 33860

Ion	Ratio	Lower	Upper
78	100		
77	23.3	17.0	25.6
50	16.6	14.6	22.0



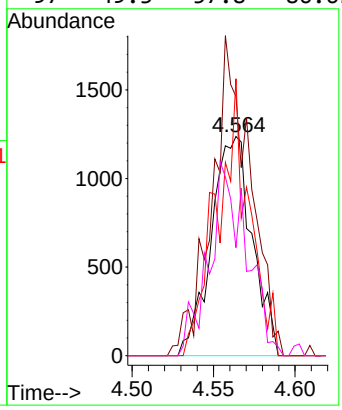


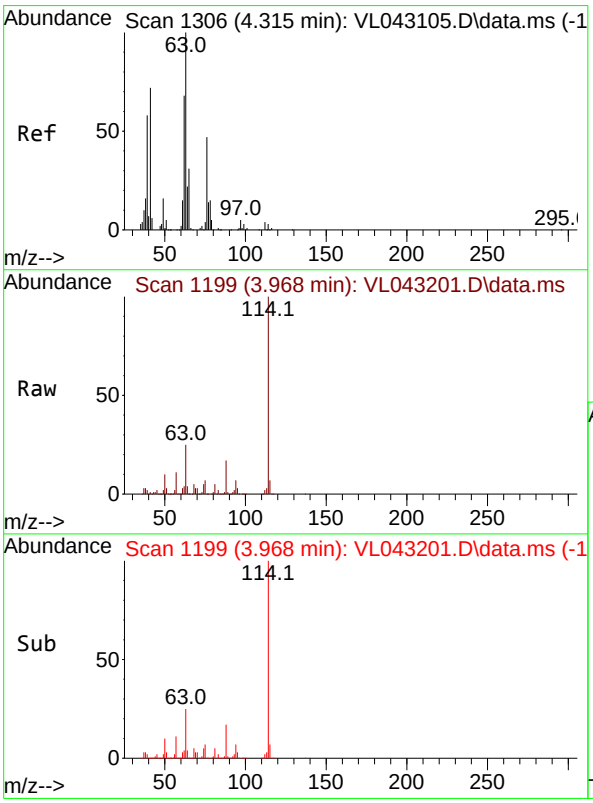
#38
Trichloroethene
Concen: 0.137 ppbv
RT: 4.564 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion:130 Resp: 2156

Ion	Ratio	Lower	Upper
130	100		
95	113.5	88.6	133.0
132	126.4	73.4	110.0#
97	49.3	57.8	86.6#

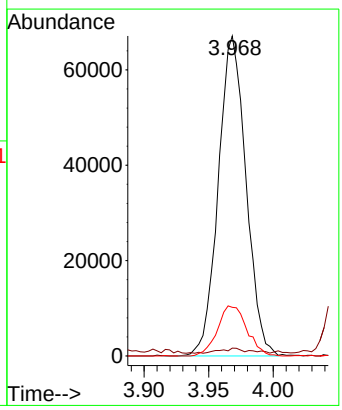


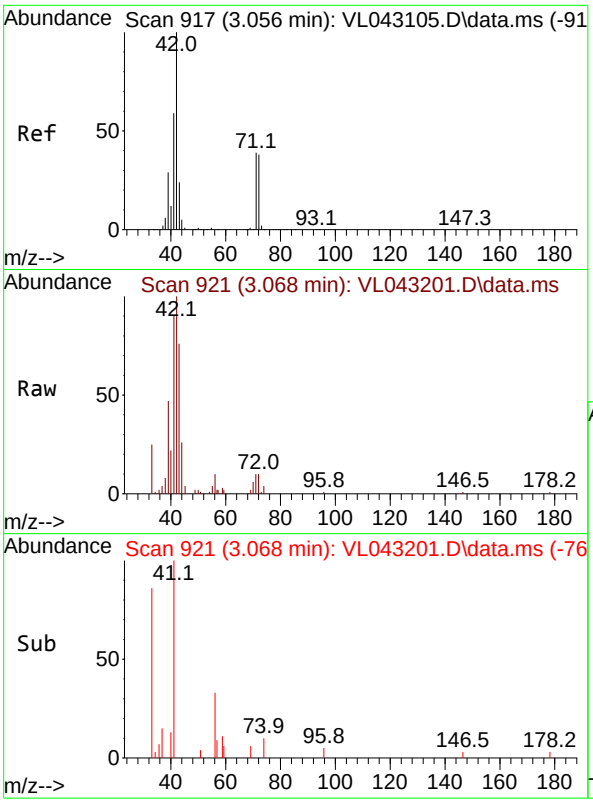


#39
1,2-Dichloropropane
Concen: 7.264 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.347 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 63 Resp: 100133

Ion	Ratio	Lower	Upper
63	100		
41	1.0	58.0	87.0#
62	15.2	54.7	82.1#



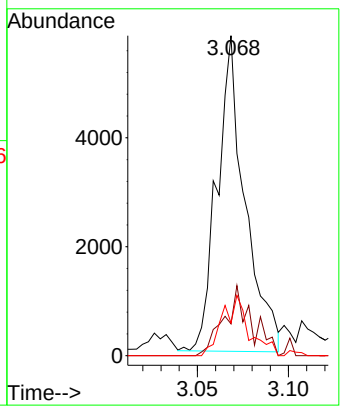


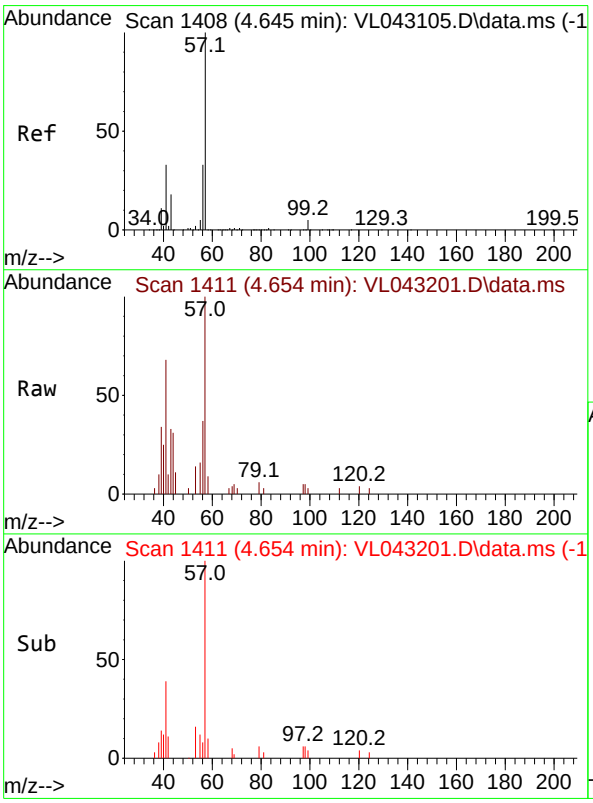
#41
Tetrahydrofuran
Concen: 0.410 ppbv
RT: 3.068 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 42 Resp: 6164

Ion	Ratio	Lower	Upper
42	100		
72	23.1	31.3	46.9#
71	18.9	30.4	45.6#

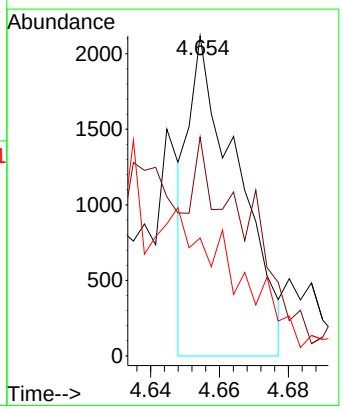


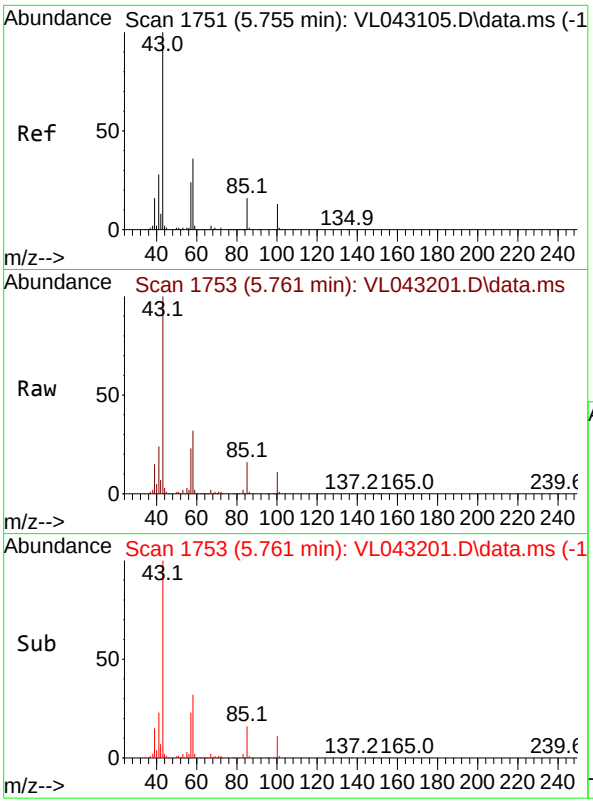


#44
2,2,4-Trimethylpentane
Concen: 0.033 ppbv
RT: 4.654 min Scan# 1411
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 57 Resp: 2115

Ion	Ratio	Lower	Upper
57	100		
41	207.2	26.3	39.5#
56	0.0	25.9	38.9#



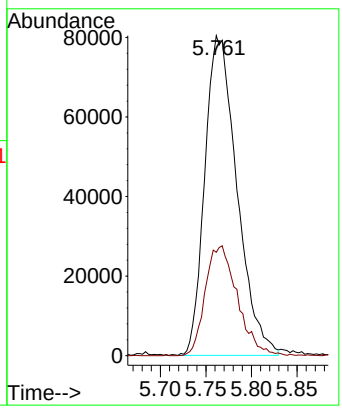


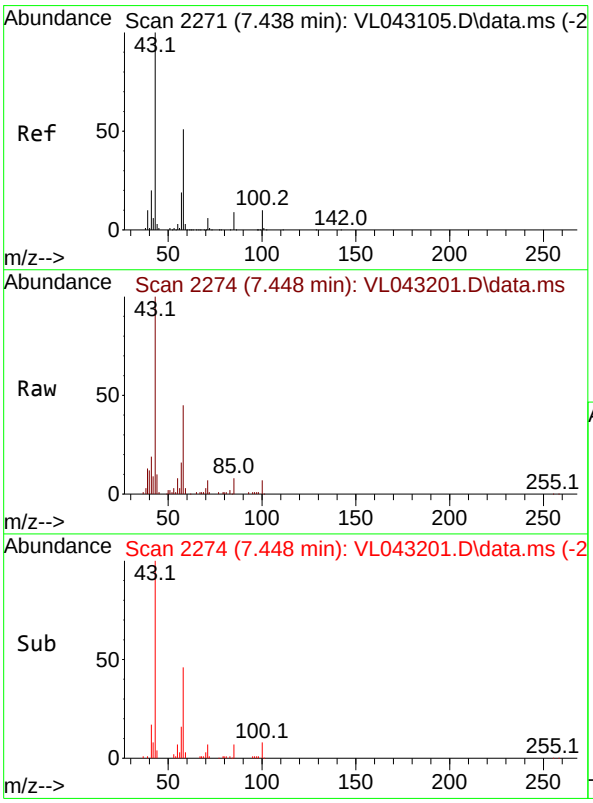
#50
4-Methyl-2-Pentanone
Concen: 5.303 ppbv
RT: 5.761 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 43 Resp: 196948

Ion	Ratio	Lower	Upper
43	100		
58	34.6	29.1	43.7

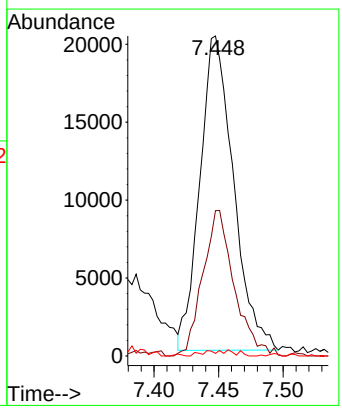


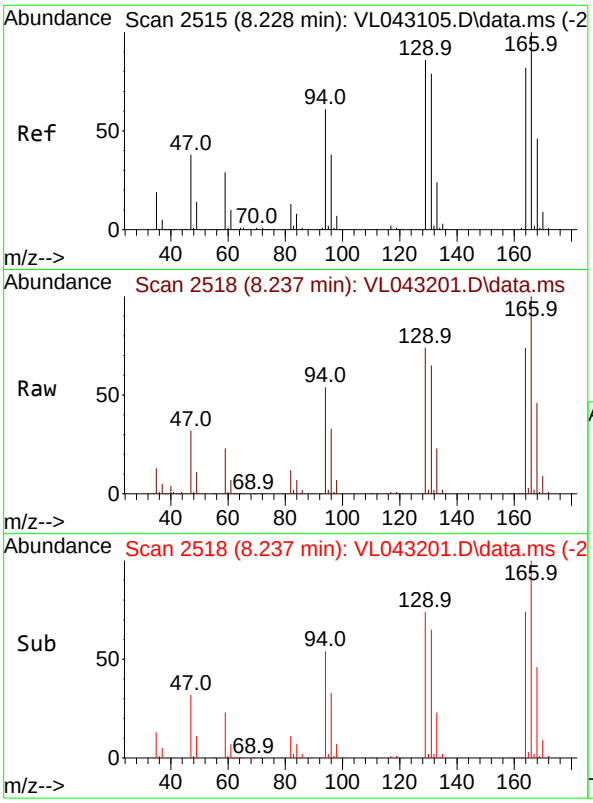


#51
2-Hexanone
Concen: 1.312 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 43 Resp: 36538

Ion	Ratio	Lower	Upper
43	100		
58	43.7	40.4	60.6
98	1.7	0.1	0.1#



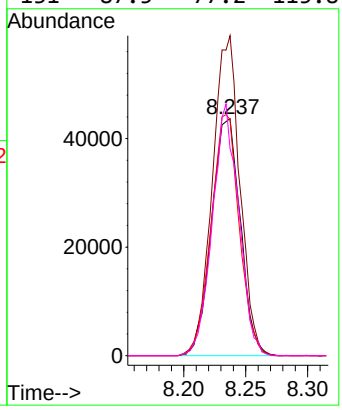


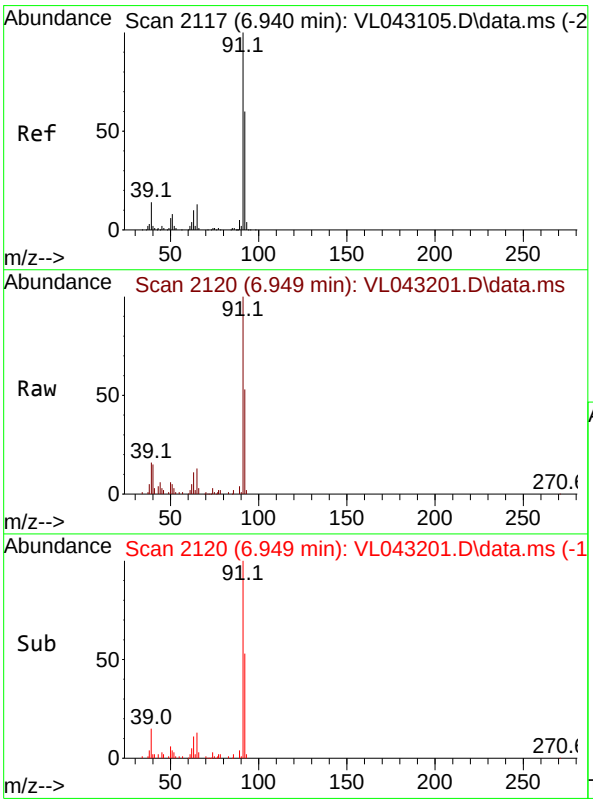
#52
Tetrachloroethene
Concen: 5.213 ppbv
RT: 8.237 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion:164 Resp: 70881

Ion	Ratio	Lower	Upper
164	100		
166	135.1	97.6	146.4
129	99.6	84.5	126.7
131	87.5	77.2	115.8

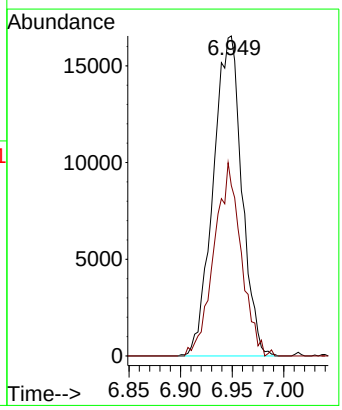


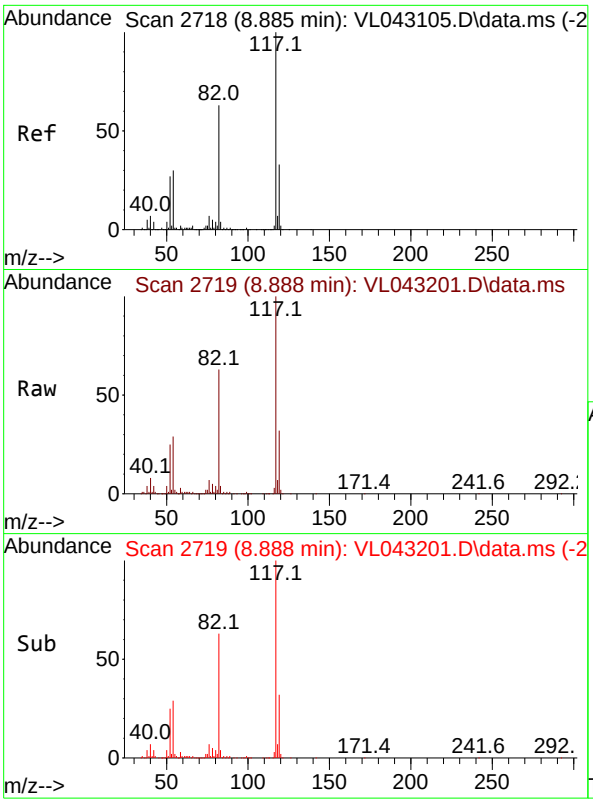


#53
Toluene
Concen: 0.714 ppbv
RT: 6.949 min Scan# 2120
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 91 Resp: 31937

Ion	Ratio	Lower	Upper
91	100		
92	56.9	48.8	73.2



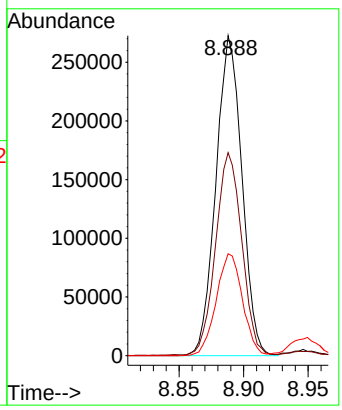


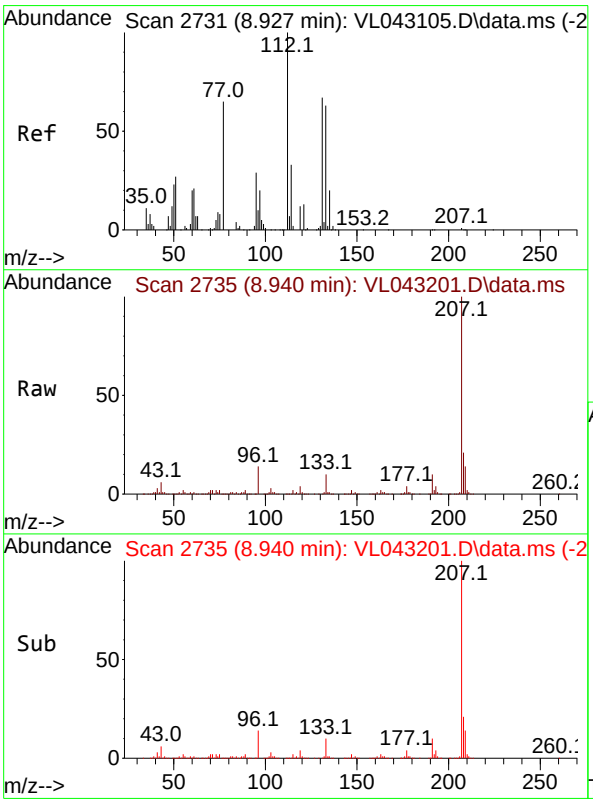
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion:117 Resp: 381448

Ion	Ratio	Lower	Upper
117	100		
82	64.5	53.8	80.8
119	32.4	25.4	38.0

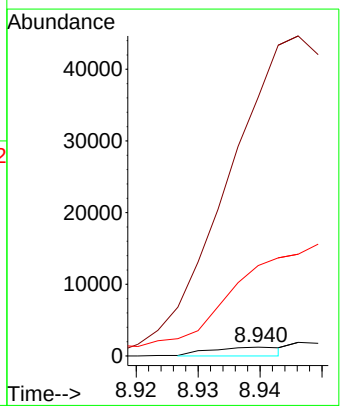


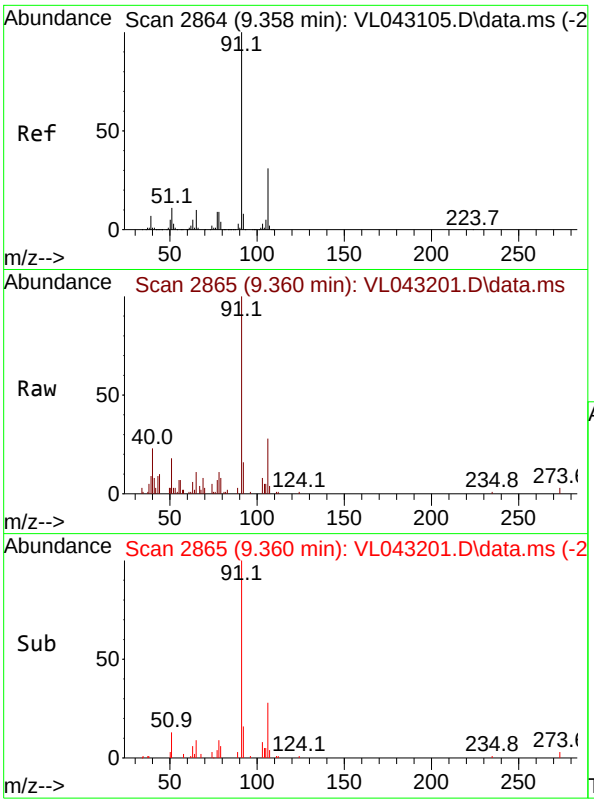


#56
1,1,1,2-Tetrachloroethane
Concen: 0.041 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. 0.013 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:131 Resp: 985

Ion	Ratio	Lower	Upper
131	100		
133	0.0	75.7	113.5#
119	0.0	50.6	76.0#



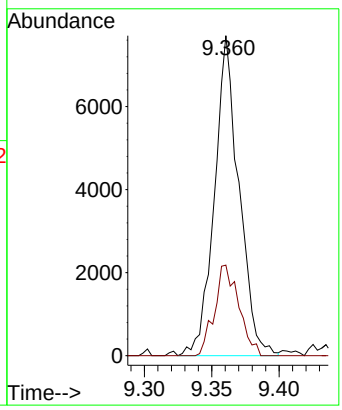


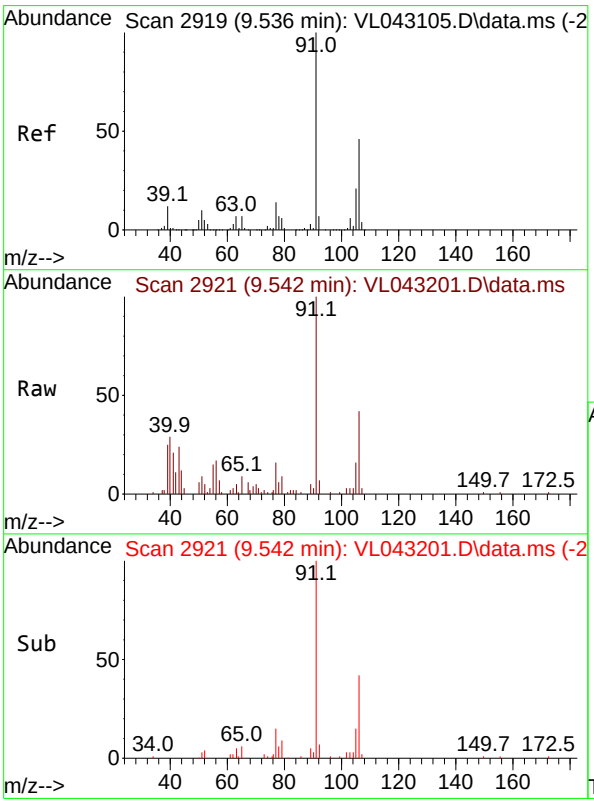
#58
Ethyl Benzene
Concen: 0.149 ppbv
RT: 9.360 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 91 Resp: 9783

Ion	Ratio	Lower	Upper
91	100		
106	28.3	24.8	37.2

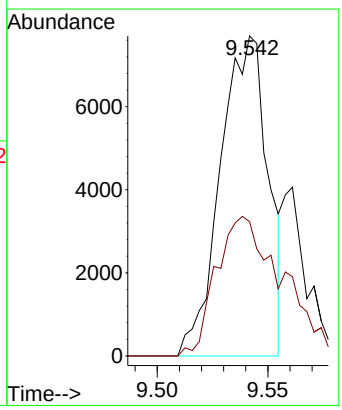


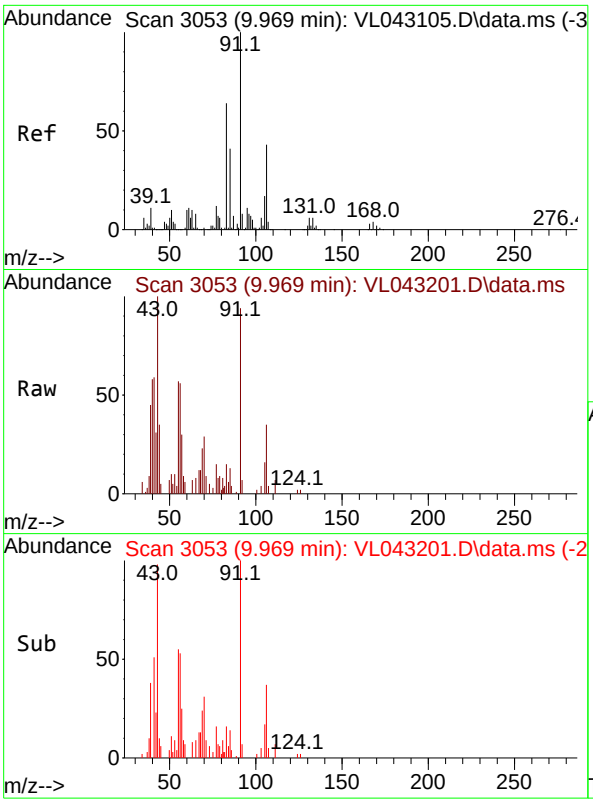


#59
m/p-Xylene
Concen: 0.220 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 91 Resp: 11480

Ion	Ratio	Lower	Upper
91	100		
106	60.5	38.0	57.0#



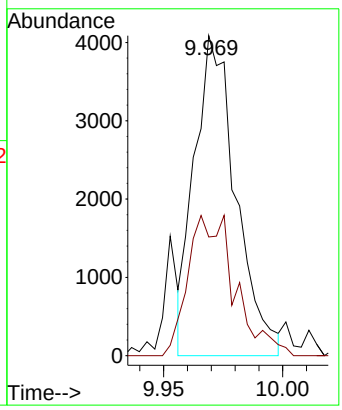


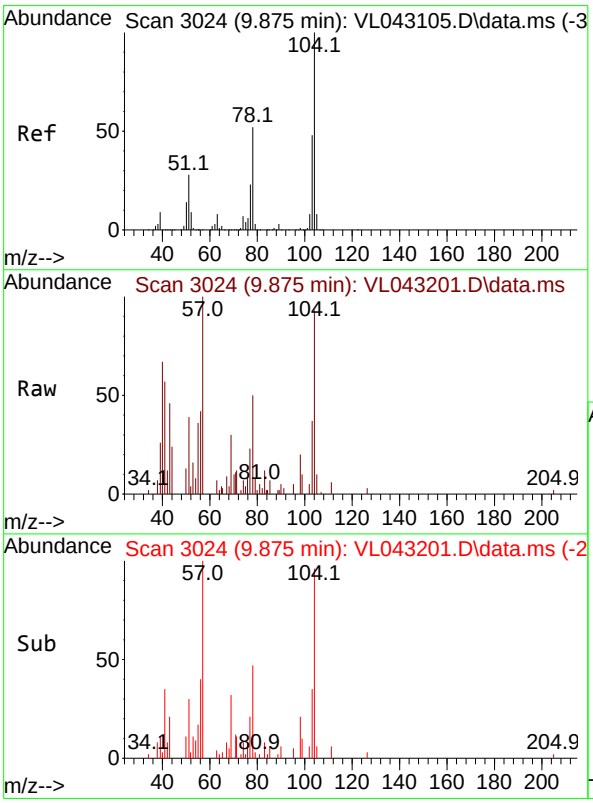
#60
o-Xylene
Concen: 0.096 ppbv
RT: 9.969 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 91 Resp: 4953

Ion	Ratio	Lower	Upper
91	100		
106	49.1	21.9	65.8

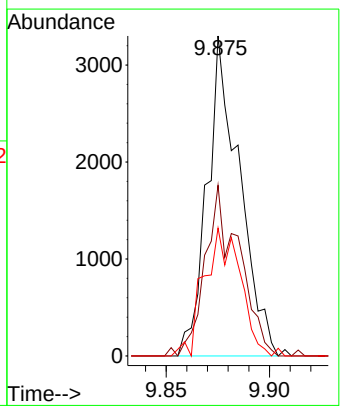


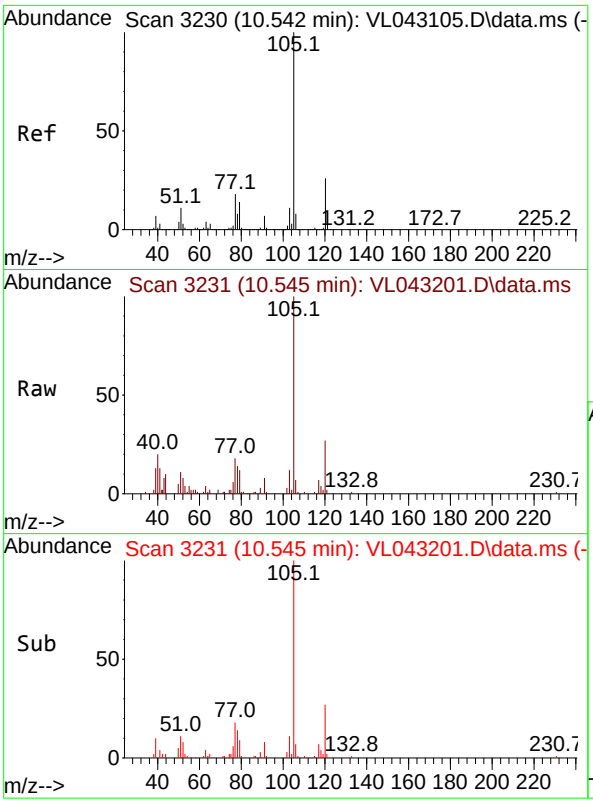


#61
Styrene
Concen: 0.154 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:104 Resp: 3586

Ion	Ratio	Lower	Upper
104	100		
78	56.5	40.2	60.2
103	45.0	36.9	55.3



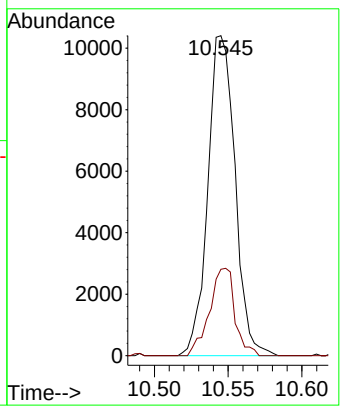


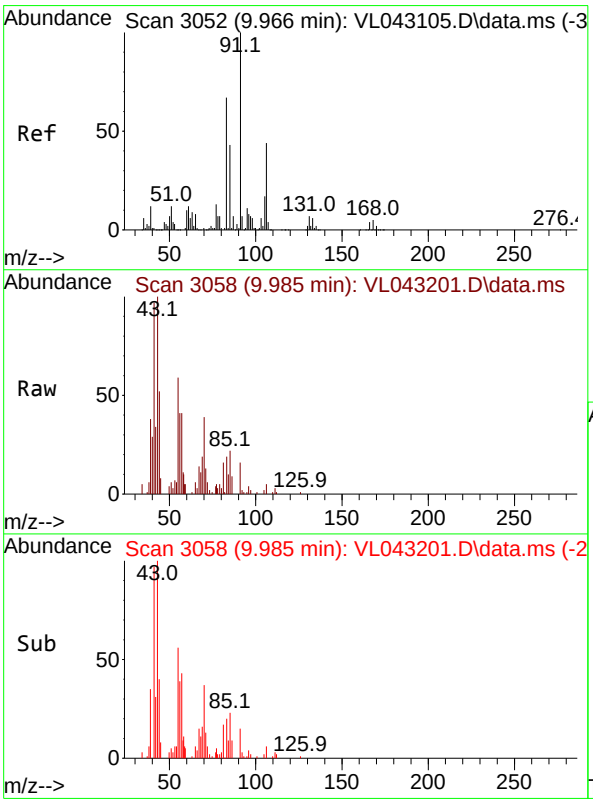
#62
Isopropylbenzene
Concen: 0.143 ppbv
RT: 10.545 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion:105 Resp: 13362

Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.2	30.4

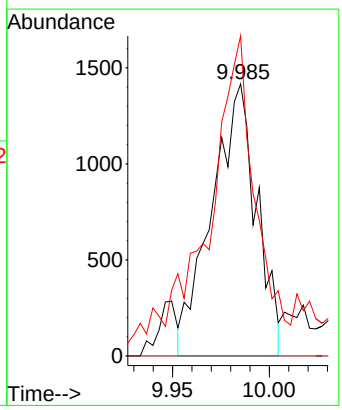


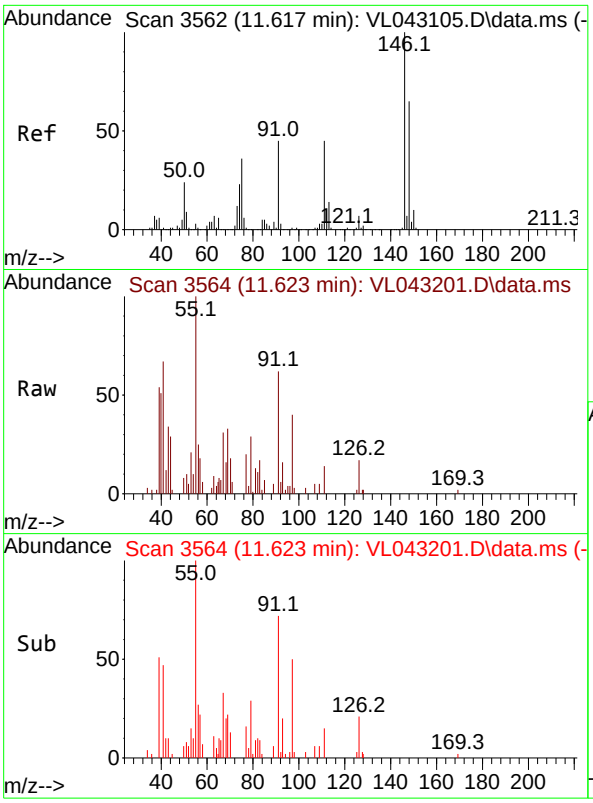


#63
1,1,2,2-Tetrachloroethane
Concen: 0.066 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.019 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion: 83 Resp: 2282

Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.3#
85	148.7	32.0	96.0#



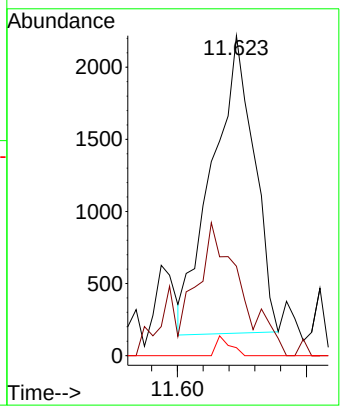


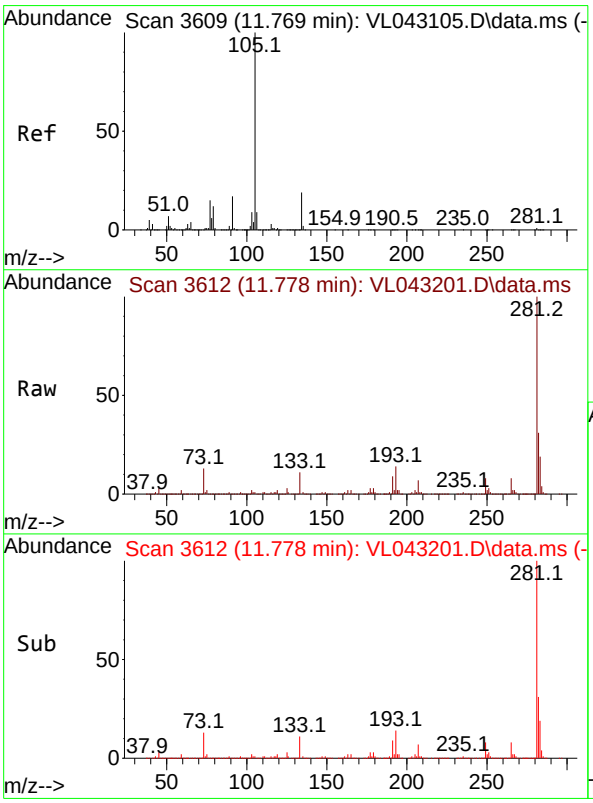
#66
Benzyl Chloride
Concen: 0.254 ppbv
RT: 11.623 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 91 Resp: 2323

Ion	Ratio	Lower	Upper
91	100		
126	57.2	14.6	22.0#
128	2.2	4.6	6.8#

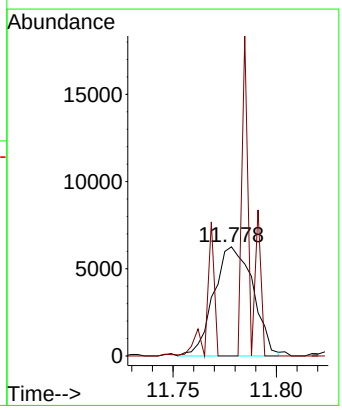


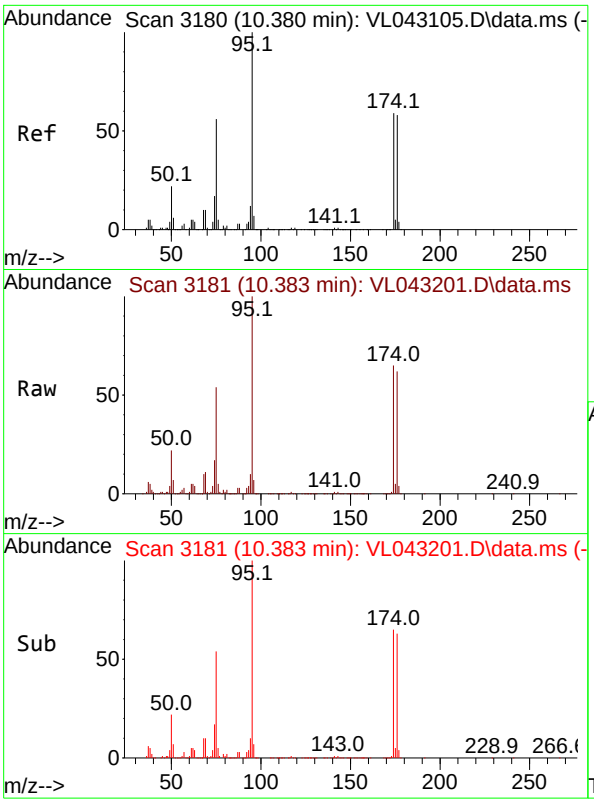


#67
sec-Butylbenzene
Concen: 0.071 ppbv
RT: 11.778 min Scan# 3612
Delta R.T. 0.009 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:105 Resp: 8262

Ion	Ratio	Lower	Upper
105	100		
134	66.9	15.5	23.3#



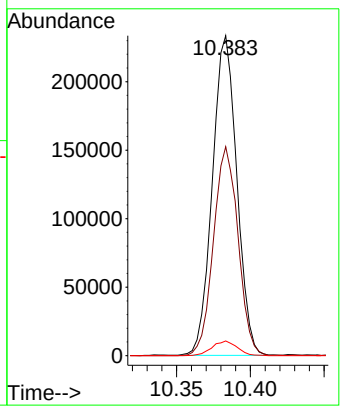


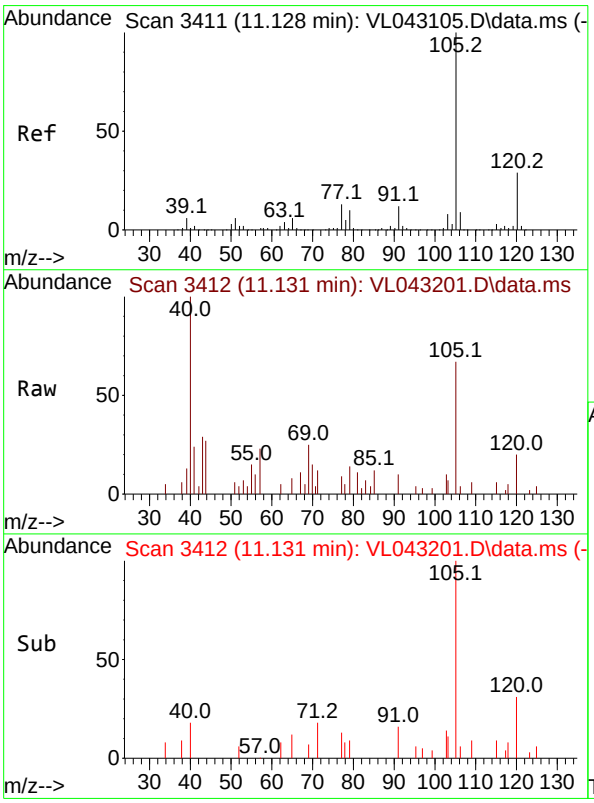
#68
1-Bromo-4-Fluorobenzene
Concen: 9.066 ppbv
RT: 10.383 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion: 95 Resp: 268804

Ion	Ratio	Lower	Upper
95	100		
174	66.1	48.3	72.5
175	4.8	3.8	5.8

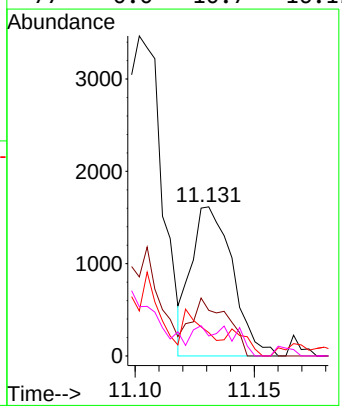


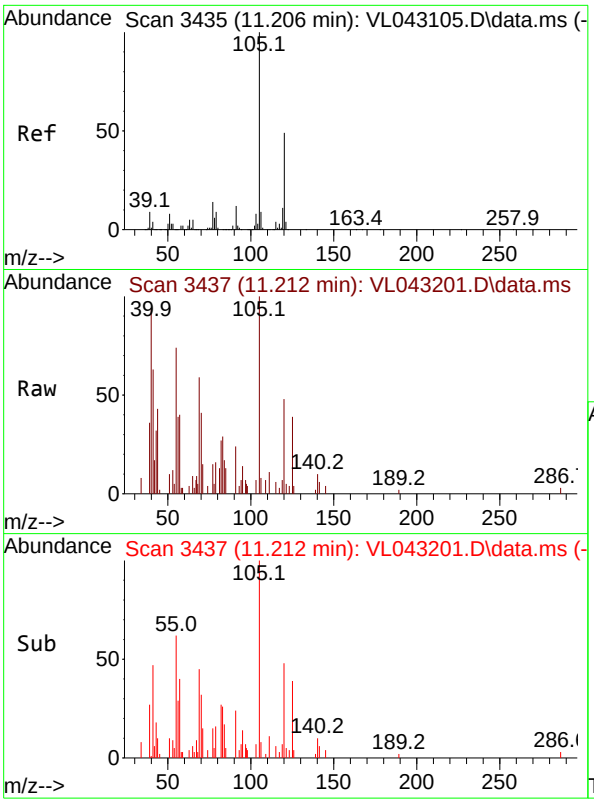


#72
4-Ethyltoluene
Concen: 0.031 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:105 Resp: 1959

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.2	36.4#
91	0.0	10.0	15.0#
77	0.0	10.7	16.1#



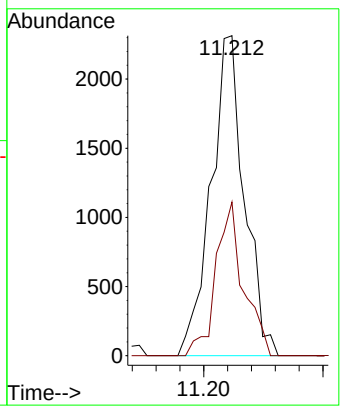


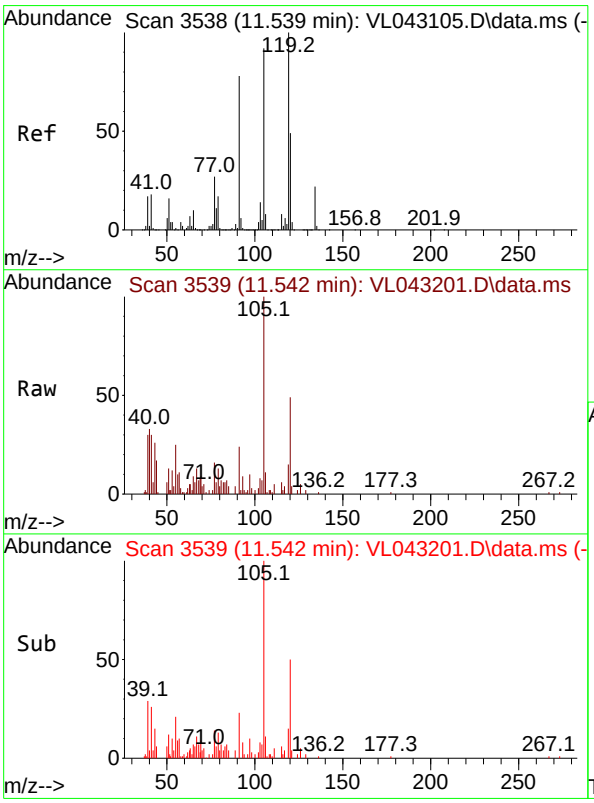
#73
1,3,5-Trimethylbenzene
Concen: 0.043 ppbv
RT: 11.212 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion:105 Resp: 2247

Ion	Ratio	Lower	Upper
105	100		
120	48.0	39.0	58.6

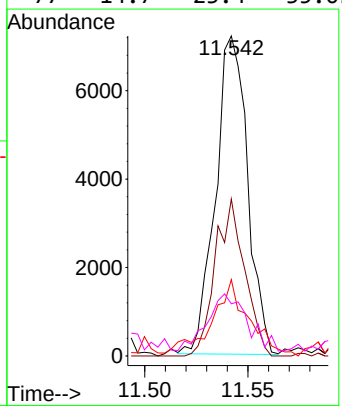


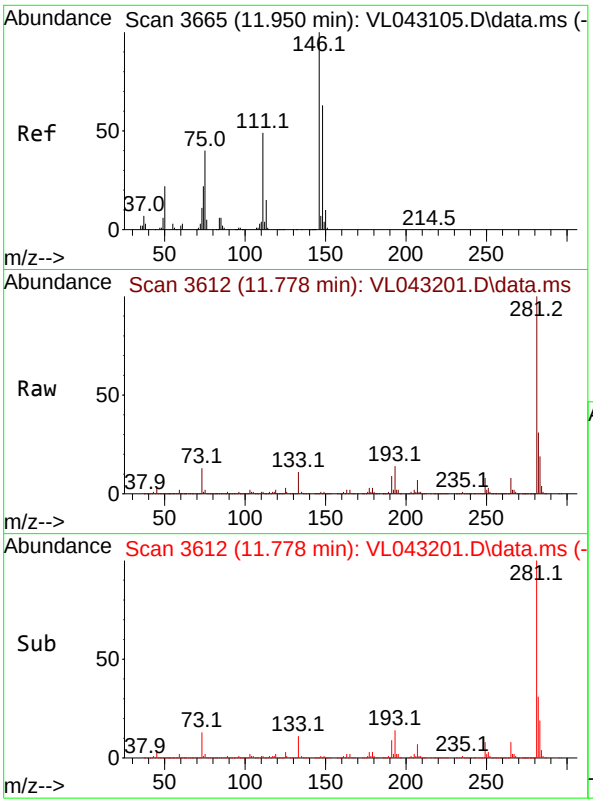


#74
1,2,4-Trimethylbenzene
Concen: 0.133 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:105 Resp: 7762

Ion	Ratio	Lower	Upper
105	100		
120	53.6	42.8	64.2
91	21.8	68.3	102.5#
77	14.7	23.4	35.0#



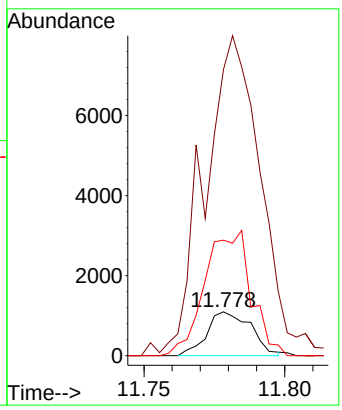


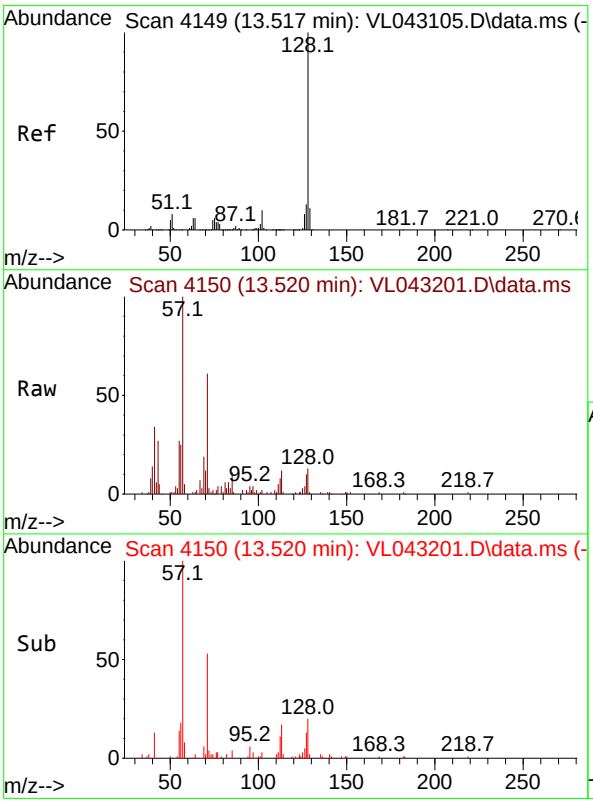
#77
1,2-Dichlorobenzene
Concen: 0.036 ppbv
RT: 11.778 min Scan# 3
Delta R.T. -0.172 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1

Tgt Ion:146 Resp: 1191

Ion	Ratio	Lower	Upper
146	100		
111	939.0	24.0	72.0#
148	299.5	31.1	93.3#





#79
Naphthalene
Concen: 0.037 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.003 min
Lab File: VL043201.D
Acq: 13 Nov 2025 15:58

Tgt Ion:128 Resp: 2239

Ion	Ratio	Lower	Upper
128	100		
127	69.8	10.5	15.7#
129	10.8	9.1	13.7