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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : CHADWICK SQUARE

RTP ENVIRONMENTAL

239 US Highway 22 East

Green Brook, NJ - 08812

Phone No: 732-968-9600

ORDER ID : Q3799

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 : Q3799

Project ID : CHADWICK SQUARE

Client : RTP Environmental

Lab Sample Number	Client Sample Number
Q3799-01	AA-1
Q3799-02	9B-IA-1
Q3799-03	10-IA-1
Q3799-04	11-IA-1
Q3799-05	13-IA-1
Q3799-06	16-IA-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: 12/12/2025

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. : Q3799

Client Contact Information	Bottle Order ID : **B2512003**	Courier :	1 of 6 COCs
Client ID : **RTPE01** Project ID : **Air**		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: Chadwick	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 : NJ Haz / Excel w/ conversion table in excel.	

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		
AA-1	12/3-4/2025	1140	11:40	-30	-7	35	35		-3.9	10520	10280	6 L	4.16	VL043290.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: 12/2/25	Canisters Received by:	Date/Time: 12/2/25		
Samples Relinquished by: CV	Date/Time:	Received by:	Date/Time: 12-4-25 500		B2512003 - 2
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3799

Client Contact Information	Bottle Order ID : **B2512003**	Courier :	2 of 6 COCs
Client ID : **RTPE01** Project ID : **Air**		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: Chadwick	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		
9B-IA-1	12/3-4/25	1115	1115	-30	-5	60	60		-5.5	10771	10608	6 L	4.16	VL043290.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: 12/2/25	Canisters Received by:	Date/Time: 12-4-25 1500	
Samples Relinquished by:	Date/Time:	Received by:	Date/Time:	**B2512003 - 6**
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3797

Client Contact Information	Bottle Order ID : **B2512003**	Courier :	3 of 6 COCs
Client ID : **RTPE01** Project ID : **Air**		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: Chadwick	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		
10-IA4	12/5-4/25	1120	1120	-30	-6	70	70	-30	-7.5	10207	10283	6 L	4.16	VL043259.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

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

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: Sent	Date/Time: 12/2/25	Canisters Received by:	Date/Time: 12-4-25 1500	
Samples Relinquished by: /	Date/Time:	Received by:	Date/Time:	**B2512003 - 3**
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3299

Client Contact Information	Bottle Order ID : **B2512003**	Courier :	4 of 6 COCs
Client ID : **RTPE01** Project ID : **Air**		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: Chadwick	Individual 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		
11-IA-1	12/3-4/25	1125	11:25	-29	-7	65	65		-6.3	10240	10315	6 L	4.16	VL043290.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: 12/2/25	Canisters Received by:	Date/Time: 12-4-25 1500	**B2512003 - 4**
Samples Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3799

Client Contact Information	Bottle Order ID : **B2512003**	Courier :	5 of 6 COCs
Client ID : **RTPE01** Project ID : **Air**		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: Chadwick		
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		
13-IA-1	12/3-4/25	1130	1130	-30	-15	70	70		-14.1	10626	10320	6 L	4.16	VL043290.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): SM

** 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: Sean	Date/Time: 12/2/25	Canisters Received by:	Date/Time: 12-4-25 1500
Samples Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2512003 - 5

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q3799

Client Contact Information	Bottle Order ID : **B2512003**	Courier :	6 of 6 COCs
Client ID : **RTPE01** Project ID : **Air**		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: Chadwick		
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		
16-IA-1	12/3-4/25	1135	1135	-30	-7	70	70	-30	-5.9	10482	10266	6 L	4.16	VL043259.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: 12/6/25	Canisters Received by:	Date/Time: 12-4-25 1500	
Samples Relinquished by:	Date/Time:	Received by:	Date/Time:	**B2512003 - 1**
Relinquished by:	Date/Time:	Received by:	Date/Time:	

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.: Q3799
Case No.: CHADWICK SQUARE

Location: 284 Sheffield Street, Mountainside, NJ 7092
Title: Sample Custodian
Date Broken: 12/4/2025
Analytical Parameter/Fraction: TO-15
Military Time Seal Broken: 15:00:00

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3799-01	AA-1		
Q3799-02	9B-IA-1		
Q3799-03	10-IA-1		
Q3799-04	11-IA-1		
Q3799-05	13-IA-1		
Q3799-06	16-IA-1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
12/5/25	14:00	Signature	Signature	
		Printed Name Cassanova Peric	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: _____ Supervisor Signature: _____

METHOD: TO-15 Pressure Gauge ID: AZ55971

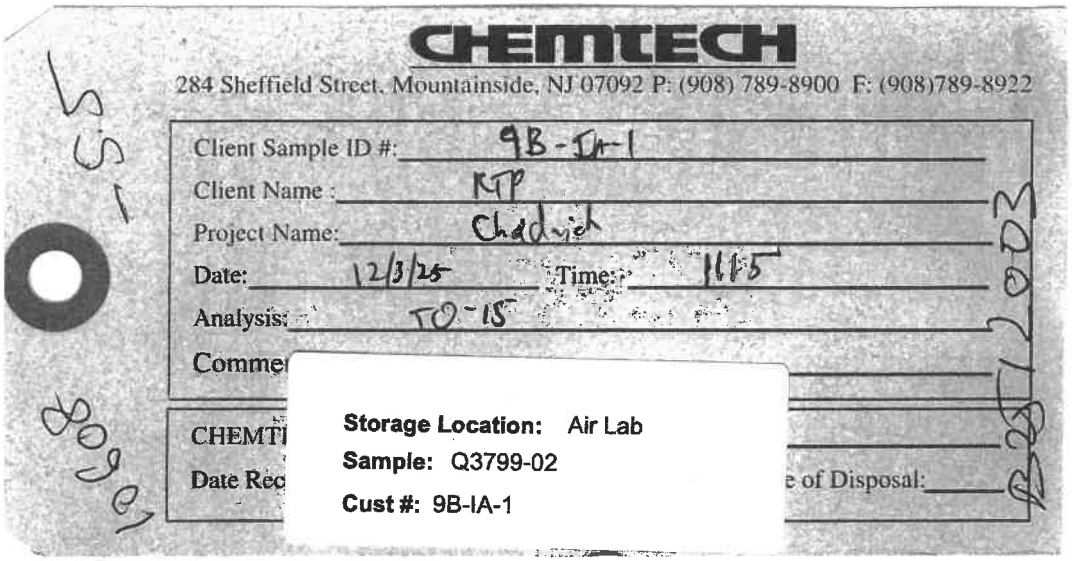
Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
11/25/25	Q3696-06	10053	13.6	-2.2				SH
	Q3696-07	10602	13.6	-2.2				
	Q3698-01	10158	12.0	-5.5				
	Q3698-02	10282	12.8	-3.9				
	Q3698-03	10267	12.2	-5.1				
	Q3698-04	10599	12.2	-5.1				
11/26/25	Q3744-01	10311	12.2	-5.1				
	Q3744-02	10286	13.0	-3.5				
	Q3744-03	10604	12.4	-4.7				
	Q3744-04	10601	12.6	-4.3				
	Q3744-05	10443	13.4	-2.7				
12/04/25	Q3797-01	10153	12.6	-4.3				SH
	Q3797-02	10060	12.6	-4.3				
	Q3797-03	10296	12.4	-4.7				
	Q3797-04	10332	12.6	-4.3				
	Q3797-05	10300	13.6	-2.2				
12/04/25	Q3798-01	10492	12.4	-4.7				SH
	Q3798-02	10588	12.0	-5.5				SH
	Q3798-03	10609	13.0	-3.5				SH
12/04/25	Q3799-01	10280	12.8	-3.9				
	Q3799-02	10608	12.0	-5.5				

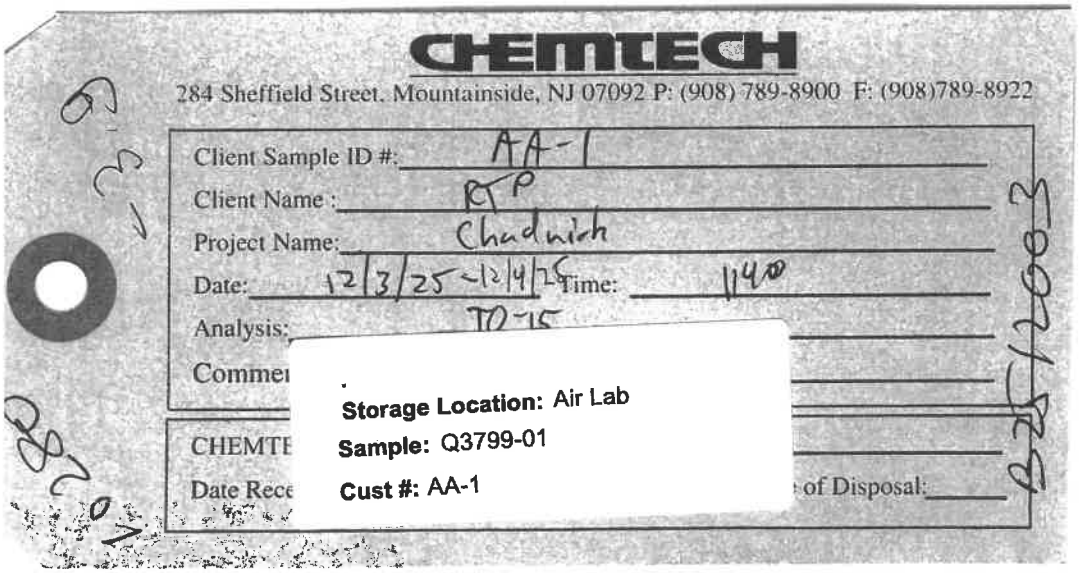
AIR SAMPLE PRESSURE & DILUTION LOGBOOK

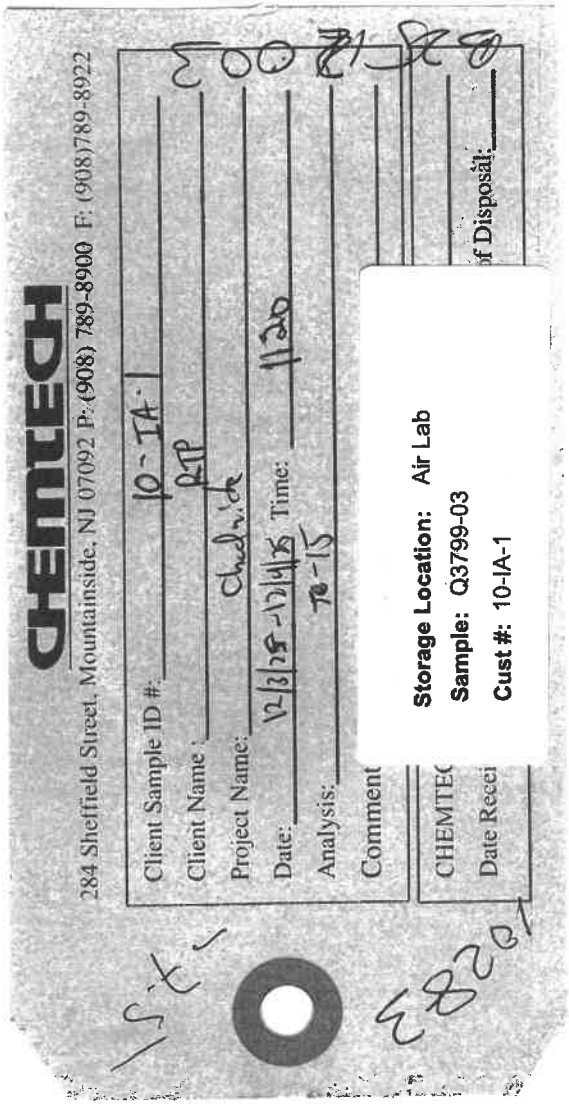
Analyst Signature: _____ Supervisor Signature: _____

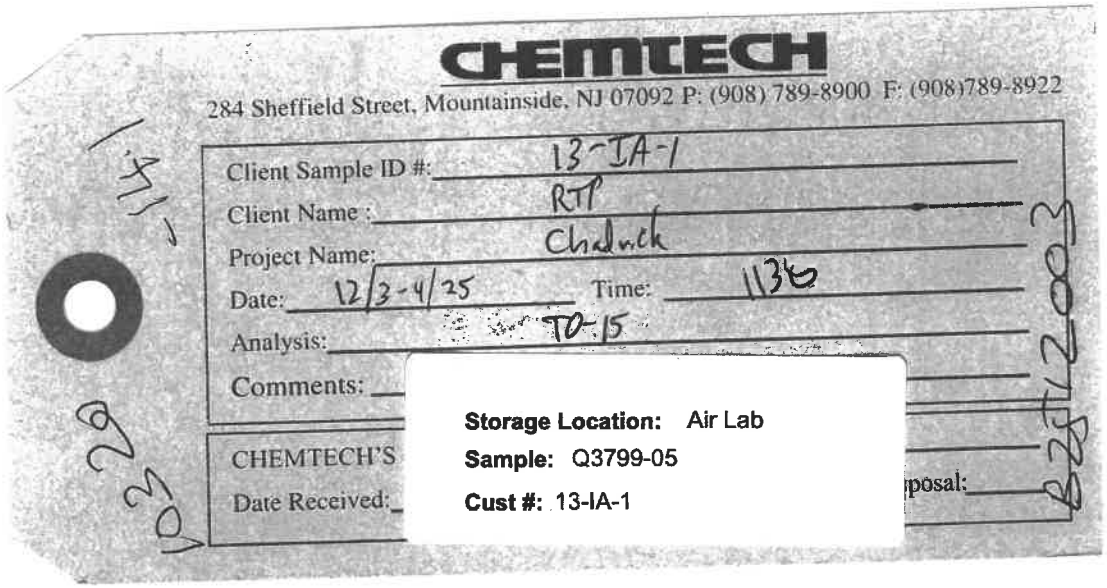
METHOD: TO-15 Pressure Gauge ID: A25971

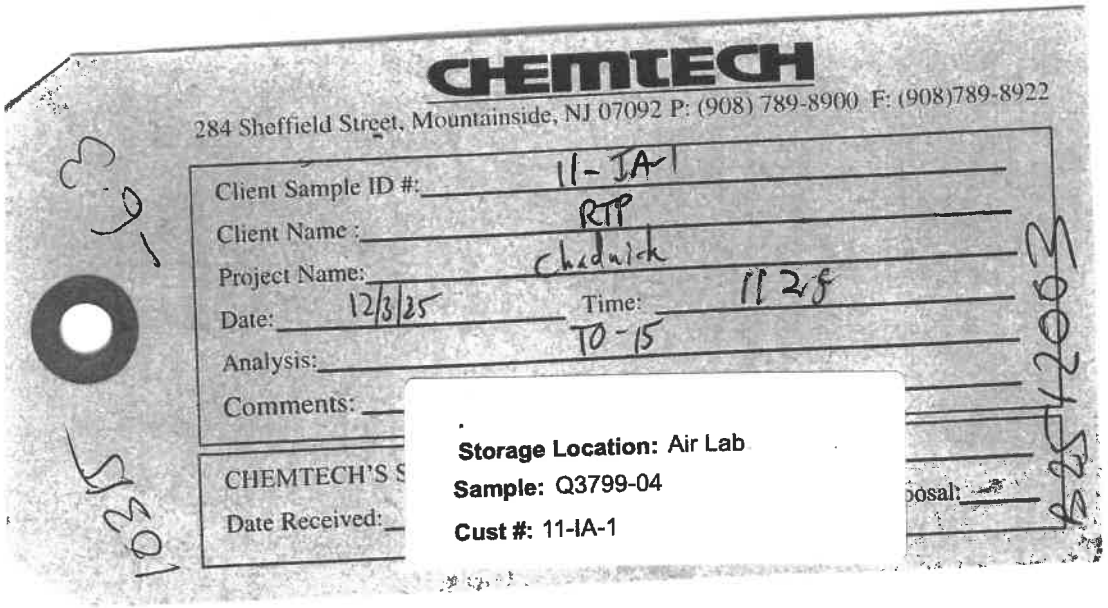
Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
12/04/15	Q3799-03	10283	11.0	-7.5				SV
↓	Q3799-04	10315	11.6	-6.3				↓
	Q3799-05	10320	7.8	-14.1				
	Q3799-06	10266	11.8	-5.9				

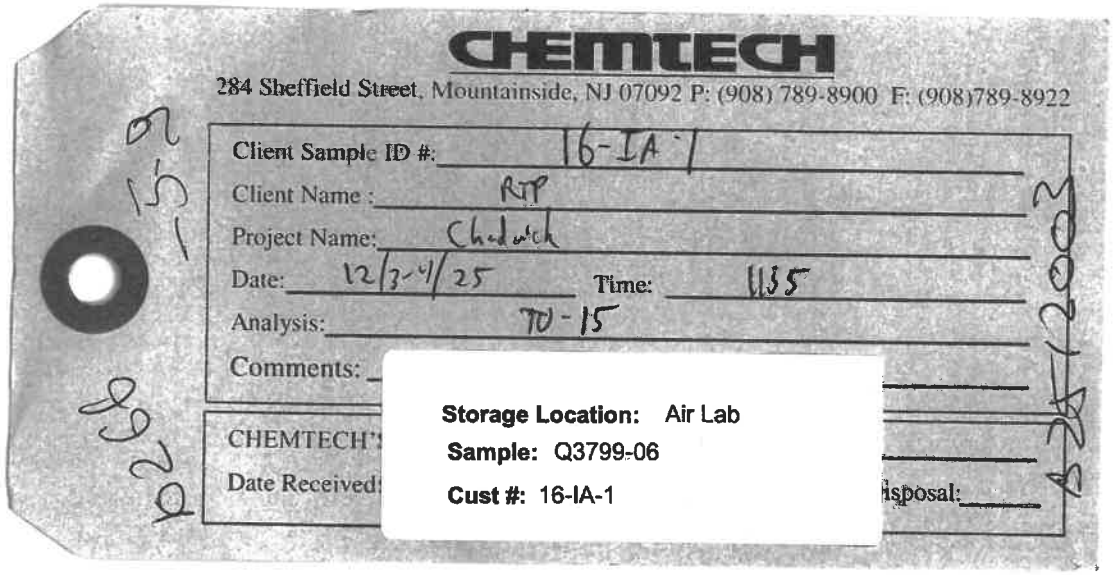

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 9B-IA-1
Client Name: MTP
Project Name: Chadwick
Date: 12/3/25 Time: 1115
Analysis: TO-15
Comme
CHEMTI
Date Rec
e of Disposal:
Storage Location: Air Lab
Sample: Q3799-02
Cust #: 9B-IA-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: AA-1
Client Name: MTP
Project Name: Chadwick
Date: 12/3/25-12/4/25 Time: 1140
Analysis: TO-15
Comme
CHEMTE
Date Rece
of Disposal:
Storage Location: Air Lab
Sample: Q3799-01
Cust #: AA-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 10-IA-1
Client Name: MTP
Project Name: Chadwick
Date: 12/3/25-12/4/25 Time: 1120
Analysis: TO-15
Comment
CHEMTEC
Date Recei
f Disposal:
Storage Location: Air Lab
Sample: Q3799-03
Cust #: 10-IA-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 13-IA-1
Client Name: RTP
Project Name: Chadwick
Date: 12/3-4/25 Time: 1136
Analysis: TO-15
Comments:
CHEMTECH'S
Date Received:
posal:
Storage Location: Air Lab
Sample: Q3799-05
Cust #: 13-IA-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 11-IA-1
Client Name: RTP
Project Name: Chadwick
Date: 12/3/25 Time: 1125
Analysis: TO-15
Comments:
CHEMTECH'S
Date Received:
posal:
Storage Location: Air Lab
Sample: Q3799-04
Cust #: 11-IA-1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: 16-IA-1
Client Name : RTP
Project Name: Chadwick
Date: 12/3-4/25 Time: 1135
Analysis: TO-15
Comments:
CHEMTECH'
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q3799-06
Cust #: 16-IA-1

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

CASE NARRATIVE

RTP Environmental
Project Name: CHADWICK SQUARE
Project # N/A
Order ID # Q3799
Test Name: TO-15

A. Number of Samples and Date of Receipt:
6 Air samples were received on 12/04/2025.

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 {Q3799-01DUP} with File ID: VL043311.D met criteria except for Methylene Chloride [31.6%] 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 %RSD is greater than 30% in the Initial Calibration method (VL111825AIR.M) for Methylene chloride passing on Linear regression.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

Samples 10-IA-1, 10-IA-1DL and 16-IA-1 were diluted due to high concentrations.

E. Additional Comments:

The Sample #AA-1, 9B-IA-1, 10-IA-1, 11-IA-1 and 16-IA-1 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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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.

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_____

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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 #: Q3799

	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:** 12/12/2025

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LAB CHRONICLE

OrderID:	Q3799	**OrderDate:**	12/5/2025 1:04:00 PM
Client:	RTP Environmental	**Project:**	CHADWICK SQUARE
Contact:	David Gabel	**Location:**	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3799-01	**AA-1**	**Air**			**12/03/25**			**12/04/25**
			TO-15	TO-15			12/08/25	
Q3799-02	**9B-IA-1**	**Air**			**12/03/25**			**12/04/25**
			TO-15	TO-15			12/08/25	
Q3799-03	**10-IA-1**	**Air**			**12/03/25**			**12/04/25**
			TO-15	TO-15			12/08/25	
Q3799-03DL	**10-IA-1DL**	**Air**			**12/03/25**			**12/04/25**
			TO-15	TO-15			12/08/25	
Q3799-03DL2	**10-IA-1DL2**	**Air**			**12/03/25**			**12/04/25**
			TO-15	TO-15			12/09/25	
Q3799-04	**11-IA-1**	**Air**			**12/03/25**			**12/04/25**
			TO-15	TO-15			12/08/25	
Q3799-05	**13-IA-1**	**Air**			**12/03/25**			**12/04/25**
			TO-15	TO-15			12/08/25	
Q3799-06	**16-IA-1**	**Air**			**12/03/25**			**12/04/25**
			TO-15	TO-15			12/08/25	
Q3799-06DL	**16-IA-1DL**	**Air**			**12/03/25**			**12/04/25**
			TO-15	TO-15			12/08/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3799

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**AA-1**							
Q3799-01	AA-1	Air	Dichlorodifluoromethane	1.93	J	0.54	2.47	ug/m3
Q3799-01	AA-1	Air	Chloromethane	4.54		0.21	1.03	ug/m3
Q3799-01	AA-1	Air	Trichlorofluoromethane	1.18	J	0.96	2.81	ug/m3
Q3799-01	AA-1	Air	Acetone	11.4		0.43	1.19	ug/m3
Q3799-01	AA-1	Air	Methylene Chloride	8.34		0.80	1.74	ug/m3
Q3799-01	AA-1	Air	2-Butanone	1.47		0.18	1.47	ug/m3
Q3799-01	AA-1	Air	Carbon Tetrachloride	0.57		0.19	0.19	ug/m3
Q3799-01	AA-1	Air	Chloroform	0.73	J	0.49	2.44	ug/m3
Q3799-01	AA-1	Air	Benzene	0.58	J	0.26	1.60	ug/m3
Q3799-01	AA-1	Air	Hexane	4.23		0.56	1.76	ug/m3
			Total Voc :	35.0				
			Total Concentration:	35.0				
Client ID:	**9B-IA-1**							
Q3799-02	9B-IA-1	Air	Dichlorodifluoromethane	1.98	J	0.54	2.47	ug/m3
Q3799-02	9B-IA-1	Air	Chloromethane	1.14		0.21	1.03	ug/m3
Q3799-02	9B-IA-1	Air	Trichlorofluoromethane	1.12	J	0.96	2.81	ug/m3
Q3799-02	9B-IA-1	Air	Acetone	20.9		0.43	1.19	ug/m3
Q3799-02	9B-IA-1	Air	Methylene Chloride	1.67	J	0.80	1.74	ug/m3
Q3799-02	9B-IA-1	Air	2-Butanone	0.88	J	0.18	1.47	ug/m3
Q3799-02	9B-IA-1	Air	Carbon Tetrachloride	0.63		0.19	0.19	ug/m3
Q3799-02	9B-IA-1	Air	Chloroform	0.68	J	0.49	2.44	ug/m3
Q3799-02	9B-IA-1	Air	Benzene	0.48	J	0.26	1.60	ug/m3
Q3799-02	9B-IA-1	Air	Hexane	3.10		0.56	1.76	ug/m3
			Total Voc :	32.6				
			Total Concentration:	32.6				
Client ID:	**10-IA-1**							
Q3799-03	10-IA-1	Air	Dichlorodifluoromethane	2.03	J	0.54	2.47	ug/m3
Q3799-03	10-IA-1	Air	Chloromethane	0.95	J	0.21	1.03	ug/m3
Q3799-03	10-IA-1	Air	Trichlorofluoromethane	1.29	J	0.96	2.81	ug/m3
Q3799-03	10-IA-1	Air	Heptane	0.70	J	0.70	2.05	ug/m3
Q3799-03	10-IA-1	Air	Acetone	689	E	0.43	1.19	ug/m3
Q3799-03	10-IA-1	Air	Methylene Chloride	55.2	E	0.80	1.74	ug/m3
Q3799-03	10-IA-1	Air	2-Butanone	1.62		0.18	1.47	ug/m3
Q3799-03	10-IA-1	Air	Carbon Tetrachloride	0.57		0.19	0.19	ug/m3
Q3799-03	10-IA-1	Air	Benzene	0.51	J	0.26	1.60	ug/m3
Q3799-03	10-IA-1	Air	Toluene	1.70	J	0.60	1.88	ug/m3

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Hit Summary Sheet
SW-846

SDG No.: Q3799

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3799-03	10-IA-1	Air	Tetrachloroethene	0.27		0.14	0.20	ug/m3
Q3799-03	10-IA-1	Air	Methyl Methacrylate	267	E	0.57	2.05	ug/m3
			Total Voc :	1020				
			Total Concentration:	1020				
Client ID:	**10-IA-1DL**							
Q3799-03DL	10-IA-1DL	Air	Acetone	3560	ED	4.28	11.9	ug/m3
Q3799-03DL	10-IA-1DL	Air	Methylene Chloride	50.4	D	7.99	17.4	ug/m3
Q3799-03DL	10-IA-1DL	Air	Methyl Methacrylate	235	D	5.73	20.5	ug/m3
			Total Voc :	3850				
			Total Concentration:	3850				
Client ID:	**10-IA-1DL2**							
Q3799-03DL2	10-IA-1DL2	Air	Acetone	7130	D	171	475	ug/m3
			Total Voc :	7130				
			Total Concentration:	7130				
Client ID:	**11-IA-1**							
Q3799-04	11-IA-1	Air	Dichlorodifluoromethane	1.98	J	0.54	2.47	ug/m3
Q3799-04	11-IA-1	Air	Chloromethane	1.03		0.21	1.03	ug/m3
Q3799-04	11-IA-1	Air	Trichlorofluoromethane	1.29	J	0.96	2.81	ug/m3
Q3799-04	11-IA-1	Air	Acetone	19.0		0.43	1.19	ug/m3
Q3799-04	11-IA-1	Air	Methylene Chloride	1.39	J	0.80	1.74	ug/m3
Q3799-04	11-IA-1	Air	2-Butanone	1.03	J	0.18	1.47	ug/m3
Q3799-04	11-IA-1	Air	Carbon Tetrachloride	0.57		0.19	0.19	ug/m3
Q3799-04	11-IA-1	Air	Benzene	0.48	J	0.26	1.60	ug/m3
Q3799-04	11-IA-1	Air	Toluene	0.98	J	0.60	1.88	ug/m3
Q3799-04	11-IA-1	Air	Tetrachloroethene	0.61		0.14	0.20	ug/m3
Q3799-04	11-IA-1	Air	Hexane	4.23		0.56	1.76	ug/m3
			Total Voc :	32.6				
			Total Concentration:	32.6				
Client ID:	**13-IA-1**							
Q3799-05	13-IA-1	Air	Dichlorodifluoromethane	1.98	J	0.54	2.47	ug/m3
Q3799-05	13-IA-1	Air	Chloromethane	0.95	J	0.21	1.03	ug/m3
Q3799-05	13-IA-1	Air	Trichlorofluoromethane	1.40	J	0.96	2.81	ug/m3
Q3799-05	13-IA-1	Air	Acetone	8.31		0.43	1.19	ug/m3
Q3799-05	13-IA-1	Air	Methylene Chloride	2.64		0.80	1.74	ug/m3
Q3799-05	13-IA-1	Air	2-Butanone	0.77	J	0.18	1.47	ug/m3
Q3799-05	13-IA-1	Air	Carbon Tetrachloride	0.44		0.19	0.19	ug/m3
Q3799-05	13-IA-1	Air	Benzene	0.67	J	0.26	1.60	ug/m3
Q3799-05	13-IA-1	Air	Toluene	0.72	J	0.60	1.88	ug/m3

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Hit Summary Sheet
SW-846

SDG No.: Q3799

Client: RTP Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3799-05	13-IA-1	Air	Tetrachloroethene	0.34		0.14	0.20	ug/m3
Q3799-05	13-IA-1	Air	Hexane	8.11		0.56	1.76	ug/m3
			Total Voc :	26.3				
			Total Concentration:	26.3				
Client ID:	**16-IA-1**							
Q3799-06	16-IA-1	Air	Dichlorodifluoromethane	2.08	J	0.54	2.47	ug/m3
Q3799-06	16-IA-1	Air	Chloromethane	1.53		0.21	1.03	ug/m3
Q3799-06	16-IA-1	Air	Trichlorofluoromethane	1.18	J	0.96	2.81	ug/m3
Q3799-06	16-IA-1	Air	Acetone	70.8	E	0.43	1.19	ug/m3
Q3799-06	16-IA-1	Air	Methylene Chloride	25.4		0.80	1.74	ug/m3
Q3799-06	16-IA-1	Air	2-Butanone	1.30	J	0.18	1.47	ug/m3
Q3799-06	16-IA-1	Air	Carbon Tetrachloride	0.50		0.19	0.19	ug/m3
Q3799-06	16-IA-1	Air	Benzene	0.64	J	0.26	1.60	ug/m3
Q3799-06	16-IA-1	Air	4-Methyl-2-Pentanone	0.45	J	0.41	2.05	ug/m3
Q3799-06	16-IA-1	Air	Toluene	0.98	J	0.60	1.88	ug/m3
Q3799-06	16-IA-1	Air	Ethyl Benzene	0.96	J	0.83	2.17	ug/m3
Q3799-06	16-IA-1	Air	m/p-Xylene	3.91	J	1.78	4.34	ug/m3
Q3799-06	16-IA-1	Air	o-Xylene	1.04	J	0.91	2.17	ug/m3
Q3799-06	16-IA-1	Air	Hexane	9.52		0.56	1.76	ug/m3
			Total Voc :	120				
			Total Concentration:	120				
Client ID:	**16-IA-1DL**							
Q3799-06DL	16-IA-1DL	Air	Acetone	83.1	D	4.28	11.9	ug/m3
Q3799-06DL	16-IA-1DL	Air	Methylene Chloride	31.6	D	7.99	17.4	ug/m3
Q3799-06DL	16-IA-1DL	Air	Hexane	8.46	JD	5.64	17.6	ug/m3
			Total Voc :	123				
			Total Concentration:	123				

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Project : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : AA-1
Analysis Date : 12/08/25
Laboratory Id Number : Q3799-01
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.39	J	1.93		
Chloromethane	74-87-3	50.49	2.2		4.54		
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	0.21	J	1.18		
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	4.8		11.4		
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	2.4		8.34		
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	0.5		1.47		
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	0.15	J	0.73		
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	0.18	J	0.58		
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 : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : AA-1
Analysis Date : 12/08/25
Laboratory Id Number : Q3799-01
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	1.2		4.23		
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 : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : 9B-IA-1
Analysis Date : 12/08/25
Laboratory Id Number : Q3799-02
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.4	J	1.98		
Chloromethane	74-87-3	50.49	0.55		1.14		
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	0.2	J	1.12		
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	8.8		20.9		
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	0.48	J	1.67		
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	0.3	J	0.88		
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	0.14	J	0.68		
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	0.15	J	0.48		
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 : CHADWICK SQUARE **Sampling Date :** 12/03/25

Field Id Number : 9B-IA-1 **Analysis Date :** 12/08/25

Laboratory Id Number : Q3799-02 **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	0.02	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	0.88		3.1		
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 : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : 10-IA-1
Analysis Date : 12/08/25
Laboratory Id Number : Q3799-03
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.41	J	2.03		
Chloromethane	74-87-3	50.49	0.46	J	0.95		
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	0.23	J	1.29		
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	J	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.15	U	0.59		
Acetone	67-64-1	58.08	290	E	688		
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	15.9	E	55.2		
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	0.55		1.62		
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	0.16	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	0.1	U	0.41		
Toluene	108-88-3	92.14	0.45	J	1.7		
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 : CHADWICK SQUARE **Sampling Date :** 12/03/25

Field Id Number : 10-IA-1 **Analysis Date :** 12/08/25

Laboratory Id Number : Q3799-03 **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	0.04		0.27		
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	0.16	U	0.56		
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	65.2	E	266		

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Project : CHADWICK SQUARE
Field Id Number : 10-IA-1DL
Laboratory Id Number : Q3799-03DL

Sampling Date : 12/03/25
Analysis Date : 12/08/25
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	1.6	UD	4.85		
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	1500	ED	3563		
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	14.5	D	50.4		
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	0.56	UD	1.65		
Carbon Tetrachloride	56-23-5	153.8	0.25	UD	1.57		
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	0.24	UD	1.29		
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 : CHADWICK SQUARE **Sampling Date :** 12/03/25

Field Id Number : 10-IA-1DL **Analysis Date :** 12/08/25

Laboratory Id Number : Q3799-03DL **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	0.15	UD	1.02		
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	57.4	D	235		

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Project : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : 10-IA-1DL2
Analysis Date : 12/09/25
Laboratory Id Number : Q3799-03DL2
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	44	UD	217		
Chloromethane	74-87-3	50.49	39.2	UD	81.0		
Vinyl Chloride	75-01-4	62.5	10	UD	25.6		
Bromomethane	74-83-9	94.94	30.8	UD	119		
Chloroethane	75-00-3	64.52	60	UD	158		
Tetrahydrofuran	109-99-9	72.11	32	UD	94.4		
Trichlorofluoromethane	75-69-4	137.4	68	UD	382		
Dichlorotetrafluoroethane	76-14-2	170.9	60	UD	419		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	56	UD	429		
tert-Butyl alcohol	75-65-0	74.12	64	UD	194		
Heptane	142-82-5	100.2	68	UD	278		
1,1-Dichloroethene	75-35-4	96.94	60	UD	237		
Acetone	67-64-1	58.08	3000	D	7126		
Carbon Disulfide	75-15-0	76.14	32	UD	99.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	92	UD	331		
Methylene Chloride	75-09-2	84.94	92	UD	319		
trans-1,2-Dichloroethene	156-60-5	96.94	48	UD	190		
1,1-Dichloroethane	75-34-3	98.96	52	UD	210		
Cyclohexane	110-82-7	84.16	88	UD	302		
2-Butanone	78-93-3	72.11	22.4	UD	66.1		
Carbon Tetrachloride	56-23-5	153.8	10	UD	62.9		
cis-1,2-Dichloroethene	156-59-2	96.94	39.6	UD	157		
Chloroform	67-66-3	119.4	38.4	UD	187		
1,1,1-Trichloroethane	71-55-6	133.4	6.4	UD	34.9		
2,2,4-Trimethylpentane	540-84-1	114.2	56	UD	261		
Benzene	71-43-2	78.11	31.6	UD	100		
1,2-Dichloroethane	107-06-2	98.96	37.2	UD	150		
Trichloroethene	79-01-6	131.4	9.6	UD	51.6		
1,2-Dichloropropane	78-87-5	113	52	UD	240		
Bromodichloromethane	75-27-4	163.8	25.2	UD	168		
4-Methyl-2-Pentanone	108-10-1	100.2	38.8	UD	159		
Toluene	108-88-3	92.14	64	UD	241		
t-1,3-Dichloropropene	10061-02-6	111	60	UD	272		
cis-1,3-Dichloropropene	10061-01-5	111	44	UD	199		
1,1,2-Trichloroethane	79-00-5	133.4	32.4	UD	176		

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Project : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : 10-IA-1DL2
Analysis Date : 12/09/25
Laboratory Id Number : Q3799-03DL2
Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	34	UD	289		
1,2-Dibromoethane	106-93-4	187.9	34	UD	261		
Tetrachloroethene	127-18-4	165.8	6	UD	40.7		
Chlorobenzene	108-90-7	112.6	30.8	UD	141		
Ethyl Benzene	100-41-4	106.2	76	UD	330		
m/p-Xylene	179601-23-1	106.2	160	UD	694		
o-Xylene	95-47-6	106.2	84	UD	364		
Styrene	100-42-5	104.1	64	UD	272		
Bromoform	75-25-2	252.8	19.2	UD	198		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	7.2	UD	49.4		
2-Chlorotoluene	95-49-8	126.6	68	UD	352		
1,3,5-Trimethylbenzene	108-67-8	120.2	72	UD	353		
1,2,4-Trimethylbenzene	95-63-6	120.2	72	UD	353		
1,3-Dichlorobenzene	541-73-1	147	21.6	UD	129		
1,4-Dichlorobenzene	106-46-7	147	52	UD	312		
1,2-Dichlorobenzene	95-50-1	147	52	UD	312		
1,2,4-Trichlorobenzene	120-82-1	181.5	84	UD	623		
Hexachloro-1,3-Butadiene	87-68-3	260.8	52	UD	554		
Naphthalene	91-20-3	128.17	5.2	UD	27.3		
1,3-Butadiene	106-99-0	54.09	20.4	UD	45.1		
4-Ethyltoluene	622-96-8	120.2	84	UD	412		
Hexane	110-54-3	86.17	64	UD	225		
Allyl Chloride	107-05-1	76.53	44	UD	137		
1,4-Dioxane	123-91-1	88.12	88	UD	317		
Methyl Methacrylate	80-62-6	100.117	56	UD	229		

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Project : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : 11-IA-1
Analysis Date : 12/08/25
Laboratory Id Number : Q3799-04
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.4	J	1.98		
Chloromethane	74-87-3	50.49	0.5		1.03		
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	0.23	J	1.29		
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	8		19		
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	0.4	J	1.39		
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	0.35	J	1.03		
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	0.15	J	0.48		
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	0.26	J	0.98		
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 : CHADWICK SQUARE **Sampling Date :** 12/03/25

Field Id Number : 11-IA-1 **Analysis Date :** 12/08/25

Laboratory Id Number : Q3799-04 **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	0.09		0.61		
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	1.2		4.23		
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 : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : 13-IA-1
Analysis Date : 12/08/25
Laboratory Id Number : Q3799-05
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.4	J	1.98		
Chloromethane	74-87-3	50.49	0.46	J	0.95		
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	0.25	J	1.4		
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	0.76		2.64		
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	0.26	J	0.77		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
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	0.21	J	0.67		
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	0.19	J	0.72		
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 : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : 13-IA-1
Analysis Date : 12/08/25
Laboratory Id Number : Q3799-05
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	0.05		0.34		
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		
1,3-Butadiene	106-99-0	54.09	0.05	U	0.11		
Naphthalene	91-20-3	128.17	0.01	U	0.05		
4-Ethyltoluene	622-96-8	120.2	0.21	U	1.03		
Hexane	110-54-3	86.17	2.3		8.11		
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 : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : 16-IA-1
Analysis Date : 12/08/25
Laboratory Id Number : Q3799-06
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.42	J	2.08		
Chloromethane	74-87-3	50.49	0.74		1.53		
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	0.21	J	1.18		
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	29.8	E	70.8		
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	7.3		25.4		
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	0.44	J	1.3		
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	0.2	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	0.11	J	0.45		
Toluene	108-88-3	92.14	0.26	J	0.98		
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 : CHADWICK SQUARE **Sampling Date :** 12/03/25

Field Id Number : 16-IA-1 **Analysis Date :** 12/08/25

Laboratory Id Number : Q3799-06 **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	0.22	J	0.96		
m/p-Xylene	179601-23-1	106.2	0.9	J	3.91		
o-Xylene	95-47-6	106.2	0.24	J	1.04		
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	2.7		9.52		
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 : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : 16-IA-1DL
Analysis Date : 12/08/25
Laboratory Id Number : Q3799-06DL
Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	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	1.6	UD	4.85		
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	35	D	83.1		
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	9.1	D	31.6		
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	0.56	UD	1.65		
Carbon Tetrachloride	56-23-5	153.8	0.25	UD	1.57		
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	0.24	UD	1.29		
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 : CHADWICK SQUARE
Sampling Date : 12/03/25
Field Id Number : 16-IA-1DL
Analysis Date : 12/08/25
Laboratory Id Number : Q3799-06DL
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	0.15	UD	1.02		
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	2.4	JD	8.46		
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,
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Surrogate Summary

SDG No.: Q3799

Client: RTP Environmental

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3799-01	AA-1	1-Bromo-4-Fluorobenzene	10	10.2	102		70 (65)	130 (135)
Q3799-01DUP	AA-1DUP	1-Bromo-4-Fluorobenzene	10	9.82	98		70 (65)	130 (135)
Q3799-02	9B-IA-1	1-Bromo-4-Fluorobenzene	10	10.3	103		70 (65)	130 (135)
Q3799-03	10-IA-1	1-Bromo-4-Fluorobenzene	10	10.4	104		70 (65)	130 (135)
Q3799-03DL	10-IA-1DL	1-Bromo-4-Fluorobenzene	10	9.74	97		70 (65)	130 (135)
Q3799-03DL2	10-IA-1DL2	1-Bromo-4-Fluorobenzene	10	9.53	95		70 (65)	130 (135)
Q3799-04	11-IA-1	1-Bromo-4-Fluorobenzene	10	10.5	105		70 (65)	130 (135)
Q3799-05	13-IA-1	1-Bromo-4-Fluorobenzene	10	10.2	102		70 (65)	130 (135)
Q3799-06	16-IA-1	1-Bromo-4-Fluorobenzene	10	10.4	104		70 (65)	130 (135)
Q3799-06DL	16-IA-1DL	1-Bromo-4-Fluorobenzene	10	9.90	99		70 (65)	130 (135)
VL1208ABL01	VL1208ABL01	1-Bromo-4-Fluorobenzene	10	9.05	91		70 (65)	130 (135)
VL1208ABS01	VL1208ABS01	1-Bromo-4-Fluorobenzene	10	10.1	101		70 (65)	130 (135)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3799**	**Analytical Method:**	**SWTO-15**
Client:	**RTP Environmental**	**Datafile :**	VL043307.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL1208ABS01	Dichlorodifluoromethane	10	10.8	ppbv	108			40 (70)	160 (130)	
	Chloromethane	10	10.4	ppbv	104			40 (70)	160 (130)	
	Vinyl Chloride	10	9.20	ppbv	92			70 (70)	130 (130)	
	Bromomethane	10	9.30	ppbv	93			40 (70)	160 (130)	
	Chloroethane	10	9.90	ppbv	99			40 (70)	160 (130)	
	Tetrahydrofuran	10	9.70	ppbv	97			70 (70)	130 (130)	
	Trichlorofluoromethane	10	11.2	ppbv	112			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	11.2	ppbv	112			70 (70)	130 (130)	
	Dichlorotetrafluoethane	10	10.6	ppbv	106			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	8.90	ppbv	89			70 (70)	130 (130)	
	Heptane	10	9.40	ppbv	94			70 (70)	130 (130)	
	1,1-Dichloroethene	10	10.2	ppbv	102			70 (70)	130 (130)	
	Acetone	10	8.60	ppbv	86			40 (70)	160 (130)	
	Carbon disulfide	10	11.1	ppbv	111			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	9.40	ppbv	94			70 (70)	130 (130)	
	Methylene Chloride	10	11.6	ppbv	116			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	10.3	ppbv	103			70 (70)	130 (130)	
	1,1-Dichloroethane	10	10.5	ppbv	105			70 (70)	130 (130)	
	Cyclohexane	10	9.70	ppbv	97			70 (70)	130 (130)	
	2-Butanone	10	10.3	ppbv	103			40 (70)	160 (130)	
	Carbon Tetrachloride	10	12.1	ppbv	121			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	9.90	ppbv	99			70 (70)	130 (130)	
	Chloroform	10	11.7	ppbv	117			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	10.9	ppbv	109			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	10.8	ppbv	108			70 (70)	130 (130)	
	Benzene	10	11.2	ppbv	112			70 (70)	130 (130)	
	1,2-Dichloroethane	10	11.9	ppbv	119			70 (70)	130 (130)	
	Trichloroethene	10	11.5	ppbv	115			70 (70)	130 (130)	
	1,2-Dichloropropane	10	10.9	ppbv	109			70 (70)	130 (130)	
	Bromodichloromethane	10	12.0	ppbv	120			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	10.0	ppbv	100			40 (70)	160 (130)	
	Toluene	10	10.3	ppbv	103			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	7.80	ppbv	78			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	8.30	ppbv	83			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	11.6	ppbv	116			70 (70)	130 (130)	
	Dibromochloromethane	10	11.8	ppbv	118			70 (70)	130 (130)	
	1,2-Dibromoethane	10	10.5	ppbv	105			70 (70)	130 (130)	
	Tetrachloroethene	10	11.1	ppbv	111			70 (70)	130 (130)	
	Chlorobenzene	10	11.9	ppbv	119			70 (70)	130 (130)	
	Ethyl Benzene	10	11.2	ppbv	112			70 (70)	130 (130)	
	m/p-Xylene	20	23.5	ppbv	117			70 (70)	130 (130)	
	o-Xylene	10	11.6	ppbv	116			70 (70)	130 (130)	
	Styrene	10	9.90	ppbv	99			70 (70)	130 (130)	
	Bromoform	10	12.2	ppbv	122			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	11.6	ppbv	116			70 (70)	130 (130)	
	2-Chlorotoluene	10	11.0	ppbv	110			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	11.4	ppbv	114			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	11.5	ppbv	115			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3799 **Analytical Method:** SWTO-15

Client: RTP Environmental **Datafile :** VL043307.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL1208ABS01	1,3-Dichlorobenzene	10	11.8	ppbv	118			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	11.9	ppbv	119			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	11.8	ppbv	118			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	11.9	ppbv	119			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	10.9	ppbv	109			70 (70)	130 (130)	
	Naphthalene	10	10.7	ppbv	107			40 (70)	160 (130)	
	1,3-Butadiene	10	9.60	ppbv	96			70 (70)	130 (130)	
	4-Ethyltoluene	10	11.5	ppbv	115			70 (70)	130 (130)	
	Hexane	10	9.90	ppbv	99			70 (70)	130 (130)	
	Allyl Chloride	10	8.80	ppbv	88			70 (70)	130 (130)	
	1,4-Dioxane	10	8.70	ppbv	87			40 (70)	160 (130)	
	Methyl methacrylate	10	9.70	ppbv	97			70 (70)	130 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Duplicate Sample Summary

Lab Sample Id :	Q3799-01DUP		Q3799-01	
Client Id :	AA-1DUP		AA-1	
DF :	1		1	
Datafile :	VL043311.D		VL043310.D	
Anal Date & Time :	12/08/2025	13:16	12/08/2025	12:40

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	0.51	0.5	2
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	4.8	4.8	0
Allyl Chloride	0	0	0
Benzene	0.16	0.18	11.8
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.09	0.09	0

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Duplicate Sample Summary

Lab Sample Id :	Q3799-01DUP		Q3799-01	
Client Id :	AA-1DUP		AA-1	
DF :	1		1	
Datafile :	VL043311.D		VL043310.D	
Anal Date & Time :	12/08/2025	13:16	12/08/2025	12:40

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0.15	0.15	0
Chloromethane	2.1	2.2	4.7
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.41	0.39	5
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	1.4	1.2	15.4
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	3.3	2.4	31.6 *
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0	0	0
Tetrahydrofuran	0	0	0
Toluene	0	0	0
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.2	0.21	4.9
Vinyl Chloride	0	0	0

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VOLATILE METHOD BLANK SUMMARY

Client ID: VL1208ABL01

Lab Name: Alliance | Contract: RTPE01

Lab Code: ACE | SDG NO.: Q3799

Lab File ID: VL043306.D | Lab Sample ID: VL1208ABL01

Date Analyzed: 12/08/2025 | Time Analyzed: 09:36

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
VL1208ABS01	VL1208ABS01	VL043307.D	12/08/2025
AA-1	Q3799-01	VL043310.D	12/08/2025
AA-1DUP	Q3799-01DUP	VL043311.D	12/08/2025
9B-IA-1	Q3799-02	VL043312.D	12/08/2025
10-IA-1	Q3799-03	VL043313.D	12/08/2025
11-IA-1	Q3799-04	VL043314.D	12/08/2025
13-IA-1	Q3799-05	VL043315.D	12/08/2025
16-IA-1	Q3799-06	VL043316.D	12/08/2025
10-IA-1DL	Q3799-03DL	VL043322.D	12/08/2025
16-IA-1DL	Q3799-06DL	VL043324.D	12/08/2025
10-IA-1DL2	Q3799-03DL2	VL043331.D	12/09/2025

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.: Q3799

Lab File ID: VL043202.D | BFB Injection Date: 11/18/2025

Instrument ID: MSVOA_L | BFB Injection Time: 08:46

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.1
75	30.0 - 66.0% of mass 95	55.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.6
175	4.0 - 9.0% of mass 174	5 (7.8) 1
176	93.0 - 101.0% of mass 174	60.7 (95.5) 1
177	5.0 - 9.0% of mass 176	4 (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
VSTDICC0.5	VSTDICC0.5	VL043203.D	11/18/2025	09:29
VSTDICCC010	VSTDICCC010	VL043204.D	11/18/2025	10:02
VSTDICC002	VSTDICC002	VL043205.D	11/18/2025	10:37
VSTDICC001	VSTDICC001	VL043206.D	11/18/2025	11:10
VSTDICC0.1	VSTDICC0.1	VL043208.D	11/18/2025	12:16
VSTDICC0.03	VSTDICC0.03	VL043209.D	11/18/2025	12:49
VSTDICC015	VSTDICC015	VL043210.D	11/18/2025	13:24

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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.: Q3799

Lab File ID: VL043304.D | BFB Injection Date: 12/08/2025

Instrument ID: MSVOA_L | BFB Injection Time: 07:56

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.8
75	30.0 - 66.0% of mass 95	55.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.6 (0.9) 1
174	50.0 - 120.0% of mass 95	67.2
175	4.0 - 9.0% of mass 174	5.2 (7.8) 1
176	93.0 - 101.0% of mass 174	63.1 (93.8) 1
177	5.0 - 9.0% of mass 176	4.3 (6.8) 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	VL043305.D	12/08/2025	08:44
VL1208ABL01	VL1208ABL01	VL043306.D	12/08/2025	09:36
VL1208ABS01	VL1208ABS01	VL043307.D	12/08/2025	10:24
AA-1	Q3799-01	VL043310.D	12/08/2025	12:40
AA-1DUP	Q3799-01DUP	VL043311.D	12/08/2025	13:16
9B-IA-1	Q3799-02	VL043312.D	12/08/2025	13:52
10-IA-1	Q3799-03	VL043313.D	12/08/2025	14:29
11-IA-1	Q3799-04	VL043314.D	12/08/2025	15:37
13-IA-1	Q3799-05	VL043315.D	12/08/2025	16:25
16-IA-1	Q3799-06	VL043316.D	12/08/2025	17:00
10-IA-1DL	Q3799-03DL	VL043322.D	12/08/2025	20:50
16-IA-1DL	Q3799-06DL	VL043324.D	12/08/2025	21:56
10-IA-1DL2	Q3799-03DL2	VL043331.D	12/09/2025	07:30

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: RTPE01

Lab Code: ACE SDG NO.: Q3799

Lab File ID: VL043305.D Date Analyzed: 12/08/2025

Instrument ID: MSVOA_L Time Analyzed: 08:44

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	129333	2.78	319801	3.95	246102	8.87
UPPER LIMIT	181066	3.11	447721	4.28	344543	9.20
LOWER LIMIT	77599.8	2.45	191881	3.62	147661	8.54
EPA SAMPLE NO.						
AA-1	151890	2.78	389995	3.95	311445	8.87
AA-1DUP	155357	2.78	397814	3.95	318793	8.87
9B-IA-1	137082	2.78	357699	3.95	281919	8.88
10-IA-1	142316	2.78	361997	3.96	299956	8.87
10-IA-1DL	129360	2.78	324163	3.94	261825	8.87
10-IA-1DL2	122404	2.78	307022	3.95	245820	8.87
11-IA-1	138499	2.78	354324	3.95	279503	8.87
13-IA-1	133616	2.78	344933	3.94	261904	8.87
16-IA-1	146093	2.78	393021	3.95	306652	8.87
16-IA-1DL	127959	2.78	316604	3.95	248177	8.87
VL1208ABL01	125653	2.78	312886	3.95	239807	8.87
VL1208ABS01	128373	2.78	319254	3.95	250711	8.87

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:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	AA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-01	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	0.39	1.93	J	1	0.54	2.47	12/08/25 12:40	VL120825
74-87-3	Chloromethane	2.20	4.54		1	0.21	1.03	12/08/25 12:40	VL120825
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	12/08/25 12:40	VL120825
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	12/08/25 12:40	VL120825
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	12/08/25 12:40	VL120825
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	12/08/25 12:40	VL120825
75-69-4	Trichlorofluoromethane	0.21	1.18	J	1	0.96	2.81	12/08/25 12:40	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	12/08/25 12:40	VL120825
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	12/08/25 12:40	VL120825
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	12/08/25 12:40	VL120825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	12/08/25 12:40	VL120825
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	12/08/25 12:40	VL120825
67-64-1	Acetone	4.80	11.4		1	0.43	1.19	12/08/25 12:40	VL120825
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	12/08/25 12:40	VL120825
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	12/08/25 12:40	VL120825
75-09-2	Methylene Chloride	2.40	8.34		1	0.80	1.74	12/08/25 12:40	VL120825
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	12/08/25 12:40	VL120825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	12/08/25 12:40	VL120825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	12/08/25 12:40	VL120825
78-93-3	2-Butanone	0.50	1.47		1	0.18	1.47	12/08/25 12:40	VL120825
56-23-5	Carbon Tetrachloride	0.090	0.57		1	0.19	0.19	12/08/25 12:40	VL120825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	12/08/25 12:40	VL120825
67-66-3	Chloroform	0.15	0.73	J	1	0.49	2.44	12/08/25 12:40	VL120825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	12/08/25 12:40	VL120825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	12/08/25 12:40	VL120825
71-43-2	Benzene	0.18	0.58	J	1	0.26	1.60	12/08/25 12:40	VL120825
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	12/08/25 12:40	VL120825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	12/08/25 12:40	VL120825
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	12/08/25 12:40	VL120825
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	12/08/25 12:40	VL120825
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	12/08/25 12:40	VL120825
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	12/08/25 12:40	VL120825
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	12/08/25 12:40	VL120825
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	12/08/25 12:40	VL120825
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	12/08/25 12:40	VL120825
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	12/08/25 12:40	VL120825
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	12/08/25 12:40	VL120825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	12/08/25 12:40	VL120825
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	12/08/25 12:40	VL120825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	12/08/25 12:40	VL120825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	12/08/25 12:40	VL120825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	12/08/25 12:40	VL120825
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	12/08/25 12:40	VL120825
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	12/08/25 12:40	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	12/08/25 12:40	VL120825
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	12/08/25 12:40	VL120825

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	AA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-01	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	12/08/25 12:40	VL120825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	12/08/25 12:40	VL120825
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	12/08/25 12:40	VL120825
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 12:40	VL120825
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 12:40	VL120825
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	12/08/25 12:40	VL120825
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	12/08/25 12:40	VL120825
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	12/08/25 12:40	VL120825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	12/08/25 12:40	VL120825
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	12/08/25 12:40	VL120825
110-54-3	Hexane	1.20	4.23		1	0.56	1.76	12/08/25 12:40	VL120825
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	12/08/25 12:40	VL120825
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	12/08/25 12:40	VL120825
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	12/08/25 12:40	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.2				70 (65) - 130 (135)	102% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	152000							
540-36-3	1,4-Difluorobenzene	390000							
3114-55-4	Chlorobenzene-d5	311000							

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\VL120825\
Data File : VL043310.D
Acq On : 08 Dec 2025 12:40
Operator : SY/MD
Sample : Q3799-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:10:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	151890	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.946	114	389995	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.869	117	311445	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.364	95	233482	10.227	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	8408m	0.392	ppbv		
3) Chlorodifluoromethane	1.473	51	4994m	0.237	ppbv		
4) Chloromethane	1.531	50	17448	2.178	ppbv		95
9) Propene	1.483	41	5806	0.649	ppbv	#	1
11) Trichlorofluoromethane	1.874	101	4433	0.214	ppbv		95
13) Ethanol	1.719	45	11664	3.708	ppbv	#	38
15) Acetone	1.832	43	100928	4.783	ppbv		98
19) Isopropyl Alcohol	1.884	45	9295	0.779	ppbv	#	1
20) Methylene Chloride	2.059	84	18675	2.407	ppbv		89
26) Hexane	2.819	57	24551	1.230	ppbv	#	44
29) Chloroform	2.836	83	4378m	0.154	ppbv		
34) 2-Butanone	2.551	43	13762	0.500	ppbv		99
35) Carbon Tetrachloride	3.755	117	2686m	0.091	ppbv		
36) Benzene	3.651	78	6717m	0.180	ppbv		
53) Toluene	6.910	91	5747m	0.130	ppbv		

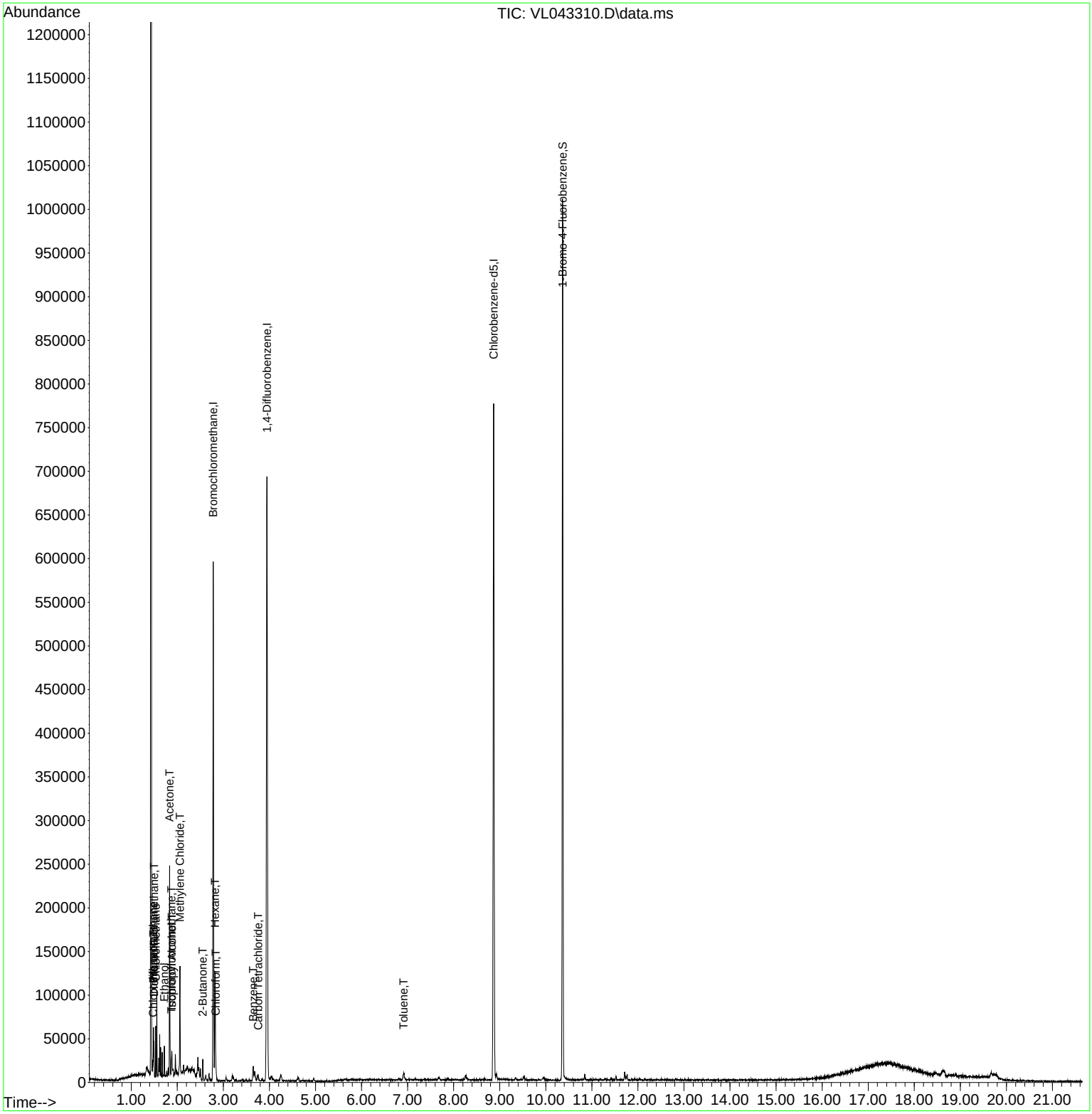
(#) = qualifier out of range (m) = manual integration (+) = signals summed

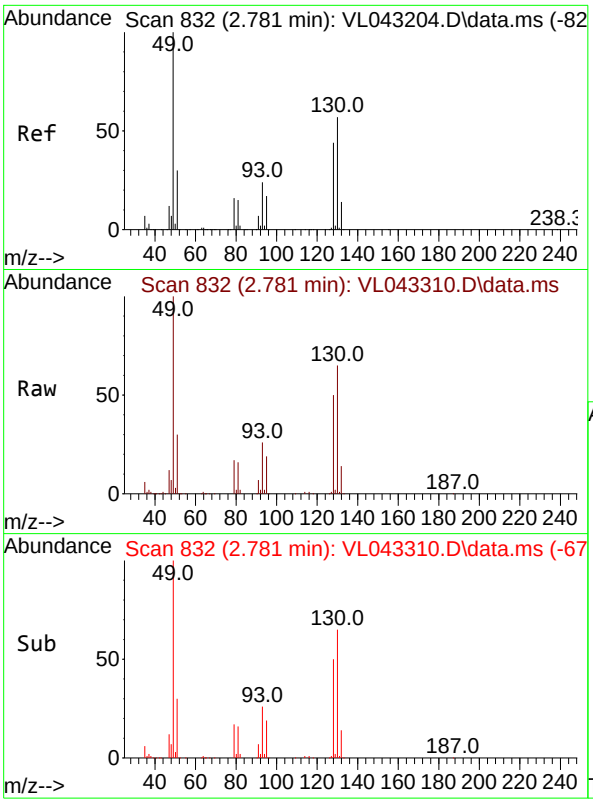
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043310.D
Acq On : 08 Dec 2025 12:40
Operator : SY/MD
Sample : Q3799-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:10:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

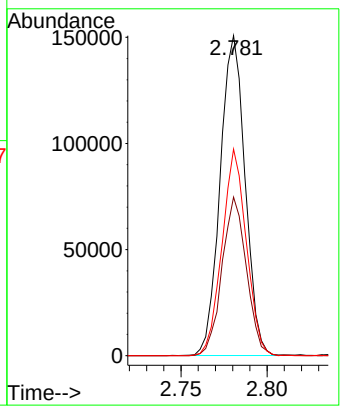




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 49 Resp: 15189

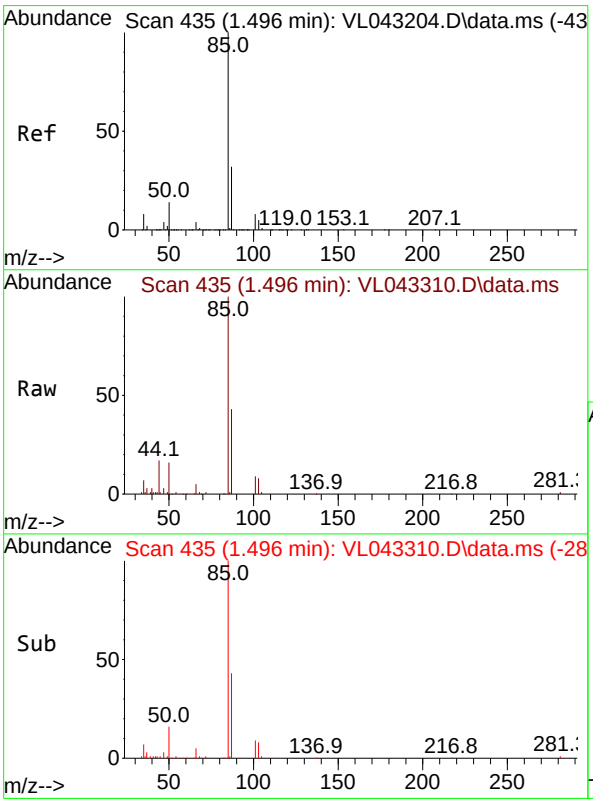
Ion	Ratio	Lower	Upper
49	100		
128	48.5	23.0	69.0
130	62.9	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
APPROVED

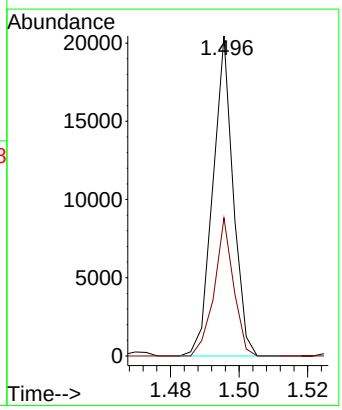
Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

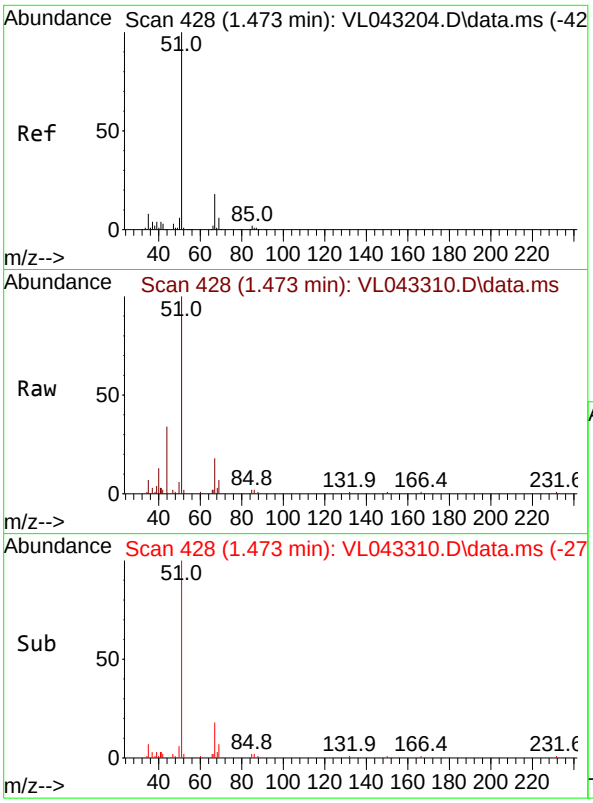


#2
Dichlorodifluoromethane
Concen: 0.392 ppbv m
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 85 Resp: 8408

Ion	Ratio	Lower	Upper
85	100		
87	43.2	25.4	38.2#

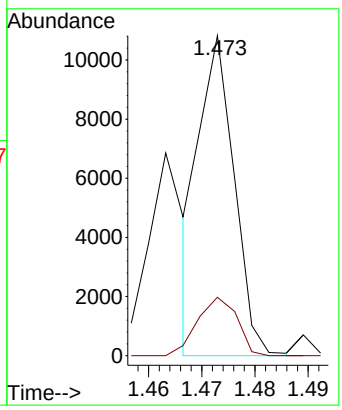




#3
Chlorodifluoromethane
Concen: 0.237 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 51 Resp: 499

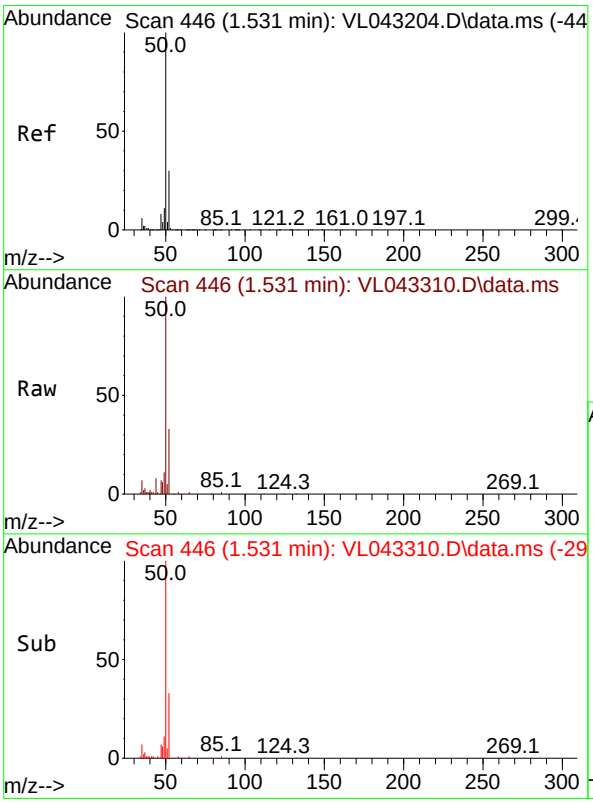
Ion	Ratio	Lower	Upper
51	100		
67	20.5	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
APPROVED

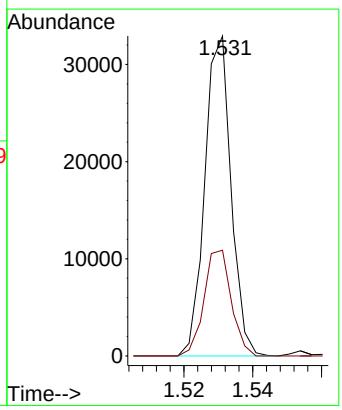
Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

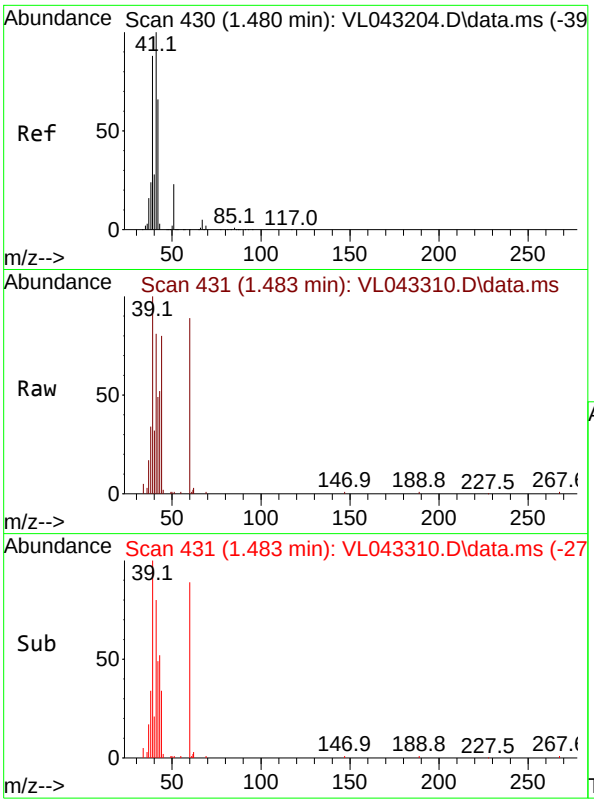


#4
Chloromethane
Concen: 2.178 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 50 Resp: 17448

Ion	Ratio	Lower	Upper
50	100		
52	33.1	24.1	36.1

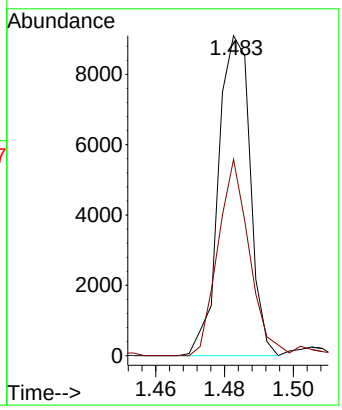




#9
Propene
Concen: 0.649 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 41 Resp: 580

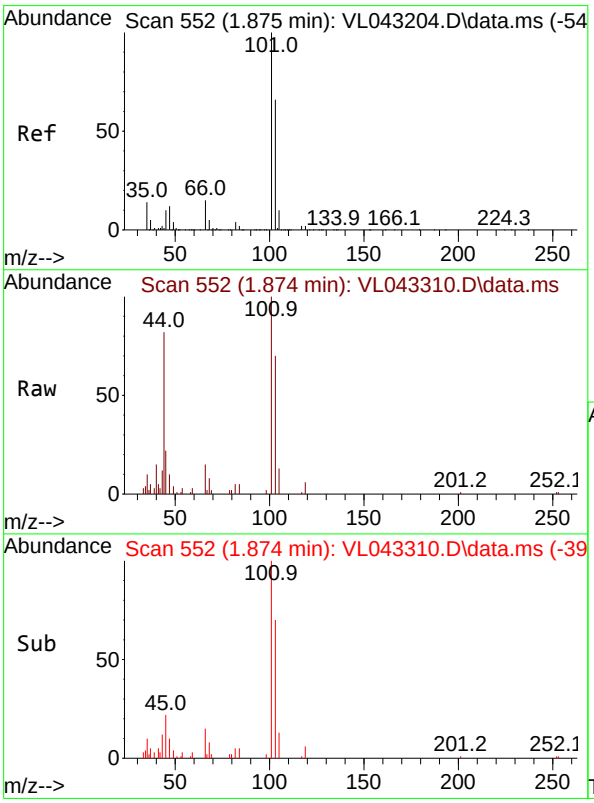
Ion	Ratio	Lower	Upper
41	100		
42	64.4	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
APPROVED

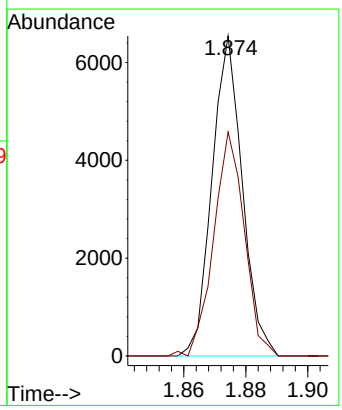
Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

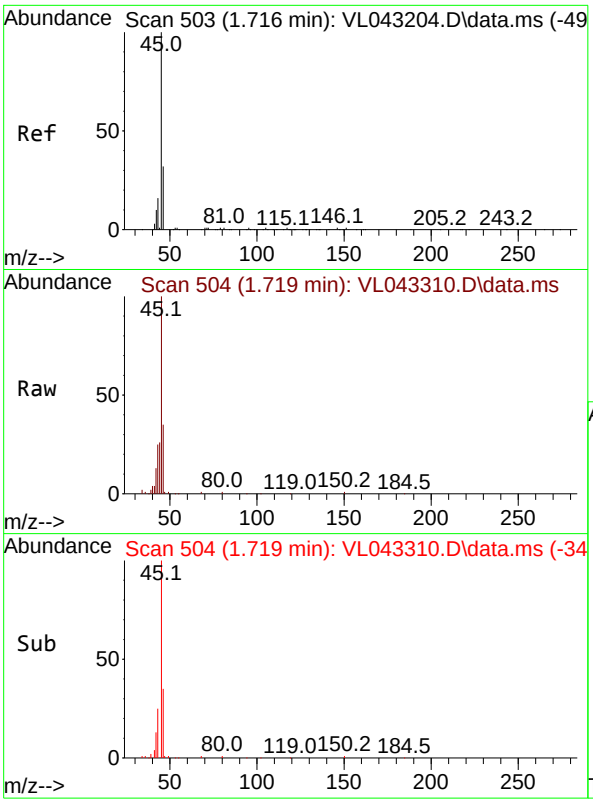


#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion:101 Resp: 4433

Ion	Ratio	Lower	Upper
101	100		
103	70.0	52.6	79.0

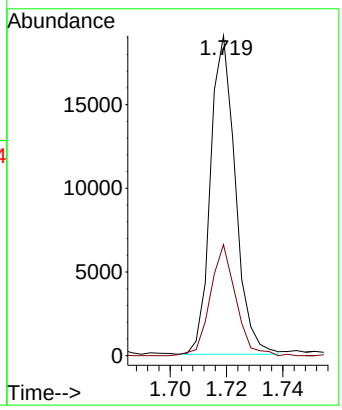




#13
Ethanol
Concen: 3.708 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 45 Resp: 1166

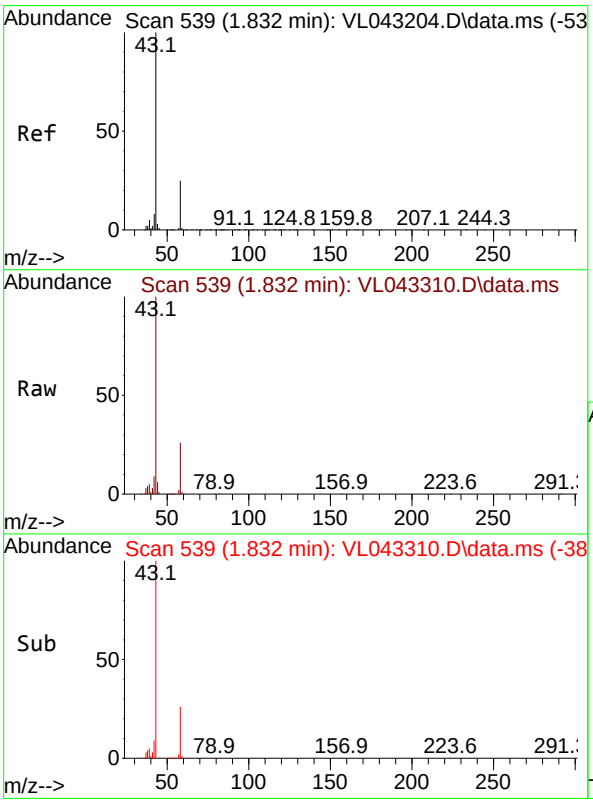
Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
APPROVED

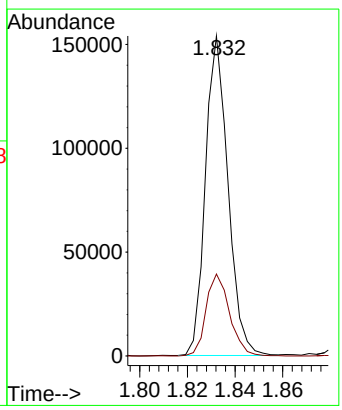
Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

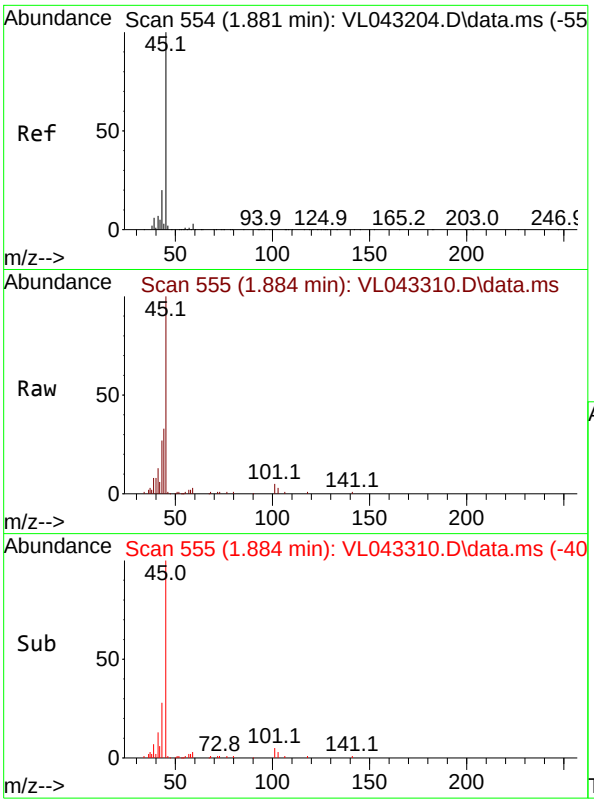


#15
Acetone
Concen: 4.783 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 43 Resp: 100928

Ion	Ratio	Lower	Upper
43	100		
58	26.8	20.7	31.1





#19
Isopropyl Alcohol
Concen: 0.779 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

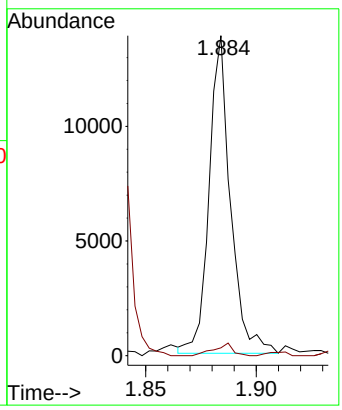
Tgt Ion: 45 Resp: 929

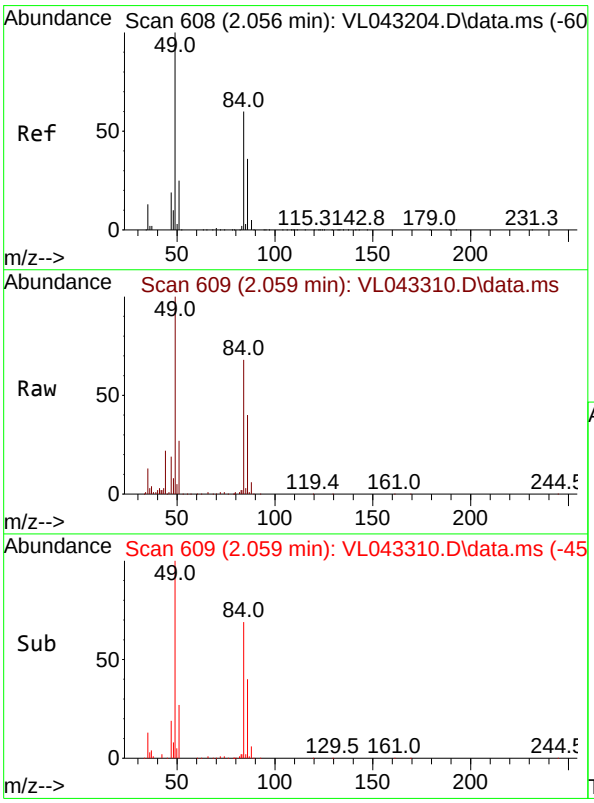
Ion	Ratio	Lower	Upper
45	100		
58	291.0	31.3	46.9

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

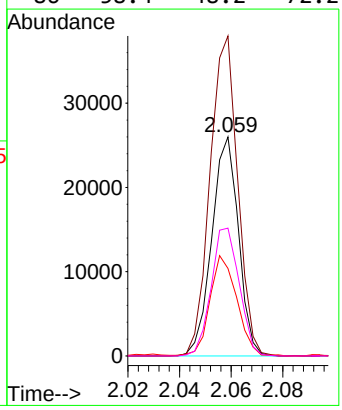


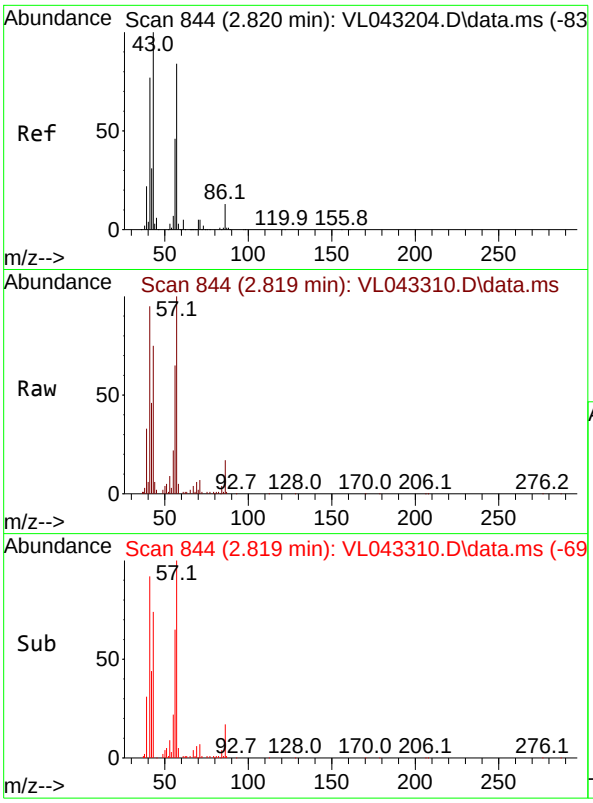


#20
Methylene Chloride
Concen: 2.407 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 84 Resp: 18675

Ion	Ratio	Lower	Upper
84	100		
49	146.1	132.9	199.3
51	39.7	34.8	52.2
86	58.4	48.2	72.2

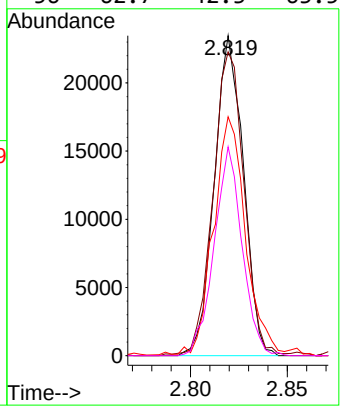




#26
Hexane
Concen: 1.230 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 57 Resp: 2455

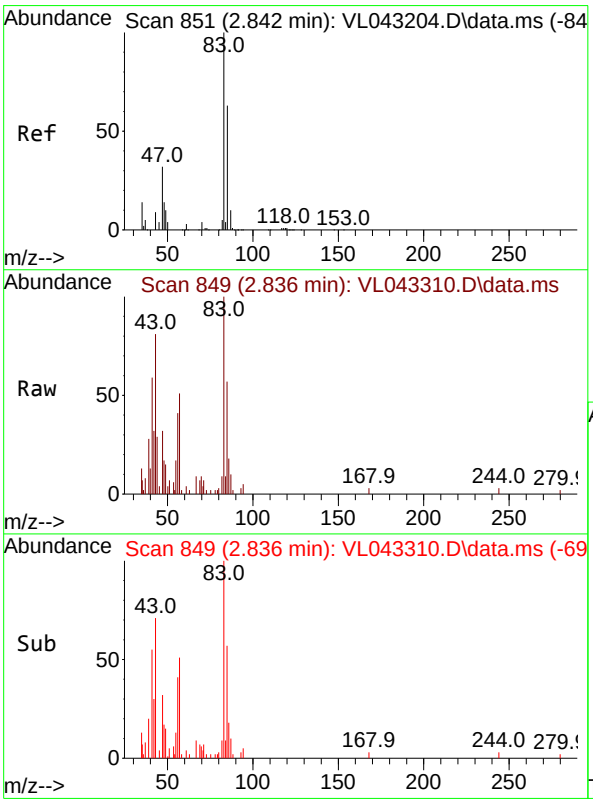
Ion	Ratio	Lower	Upper
57	100		
41	101.6	74.6	111.8
43	83.3	179.0	268.4
56	62.7	42.3	63.5



Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
APPROVED

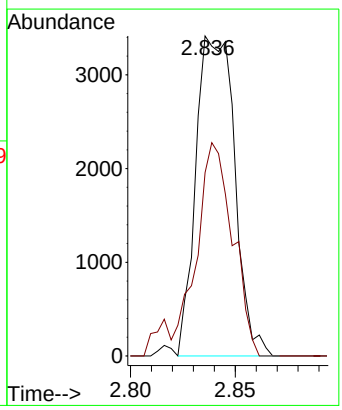
Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

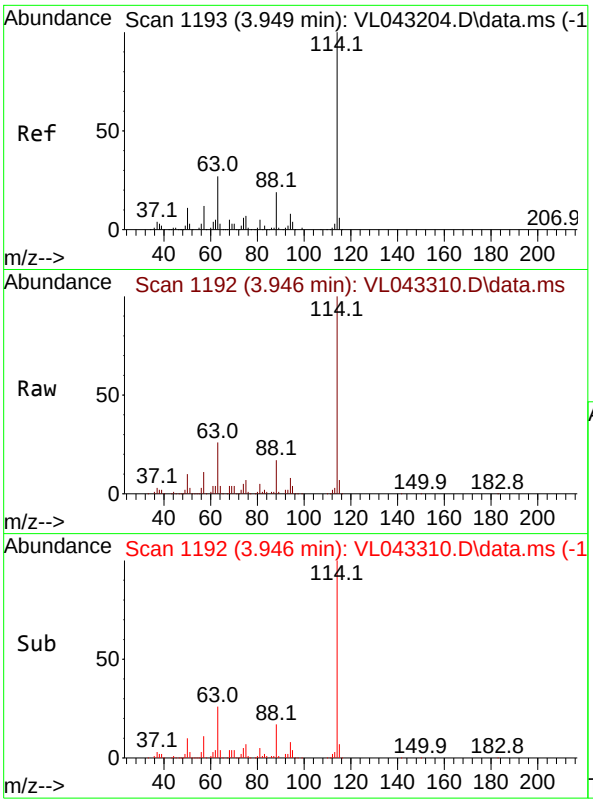


#29
Chloroform
Concen: 0.154 ppbv m
RT: 2.836 min Scan# 849
Delta R.T. -0.007 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 83 Resp: 4378

Ion	Ratio	Lower	Upper
83	100		
85	57.3	50.5	75.7





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion:114 Resp: 38999

Ion	Ratio	Lower	Upper
114	100		
63	25.9	21.0	31.6
88	18.0	14.9	22.3

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
APPROVED

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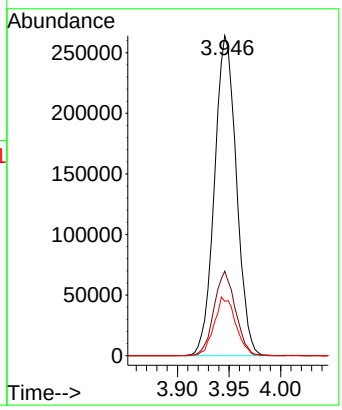
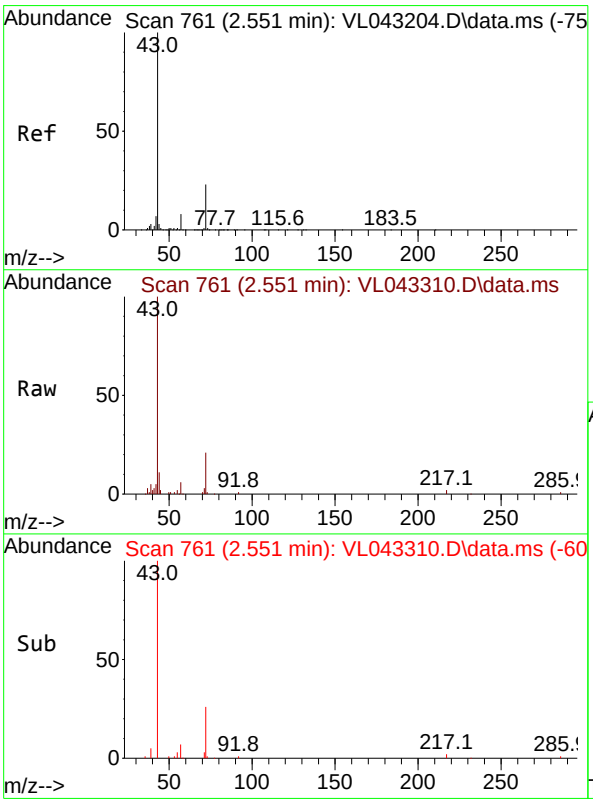
Supervised By :Mahesh Dadoda 12/11/2025

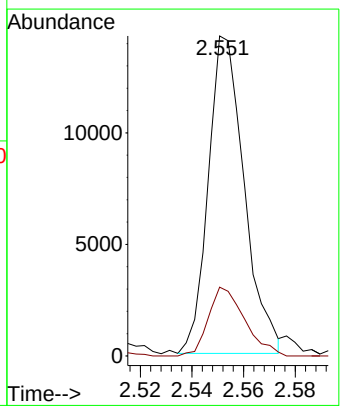


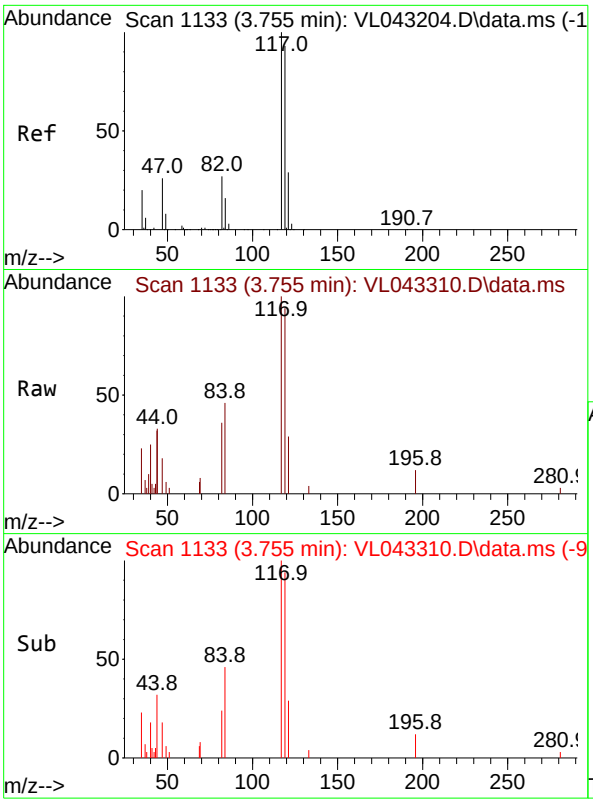


#34
2-Butanone
Concen: 0.500 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 43 Resp: 13762

Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.1	27.1





#35
Carbon Tetrachloride
Concen: 0.091 ppbv m
RT: 3.755 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

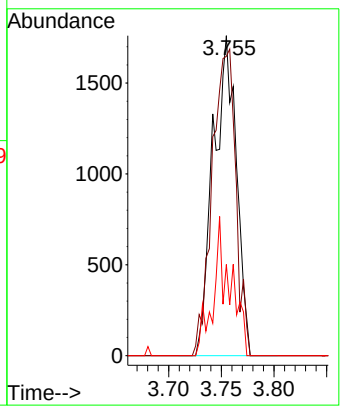
Tgt Ion:117 Resp: 268

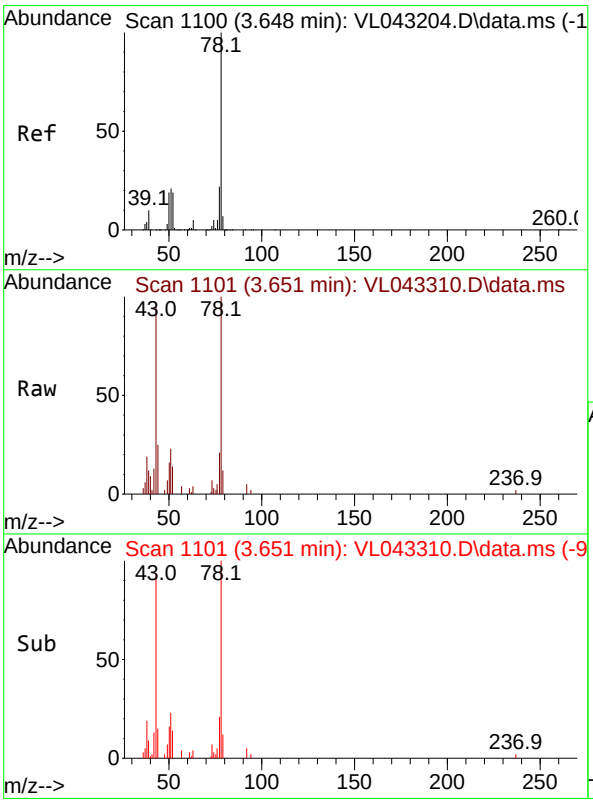
Ion	Ratio	Lower	Upper
117	100		
119	93.5	74.6	112.0
121	28.5	23.2	34.8

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

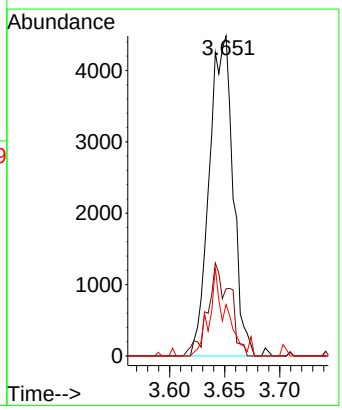


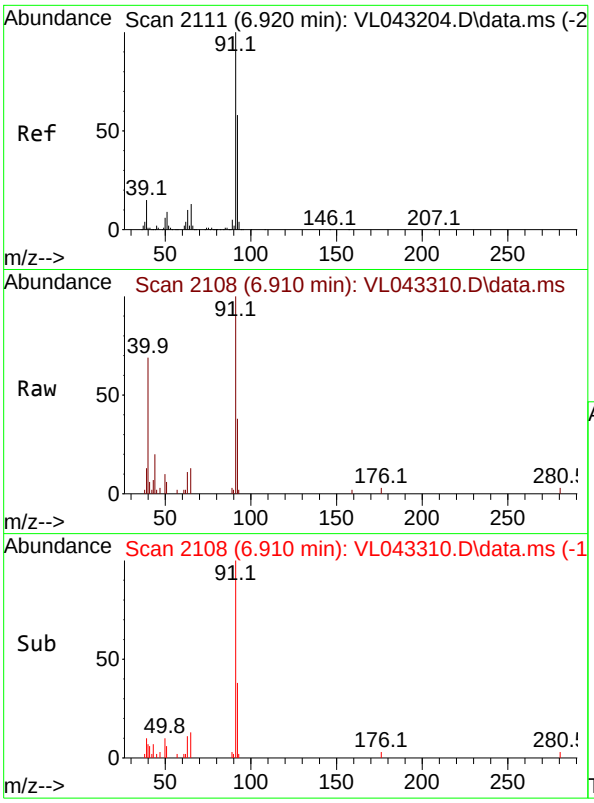


#36
Benzene
Concen: 0.180 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 78 Resp: 6717

Ion	Ratio	Lower	Upper
78	100		
77	21.0	17.5	26.3
50	16.0	15.5	23.3

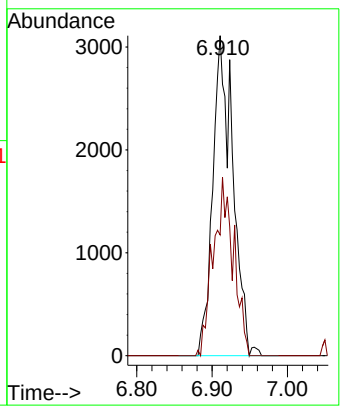




#53
Toluene
Concen: 0.130 ppbv m
RT: 6.910 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 91 Resp: 574

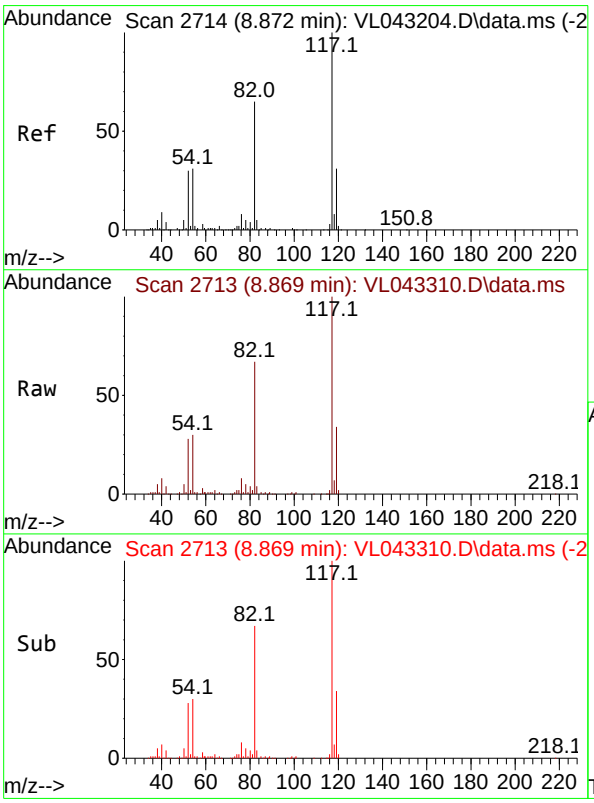
Ion	Ratio	Lower	Upper
91	100		
92	55.9	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
APPROVED

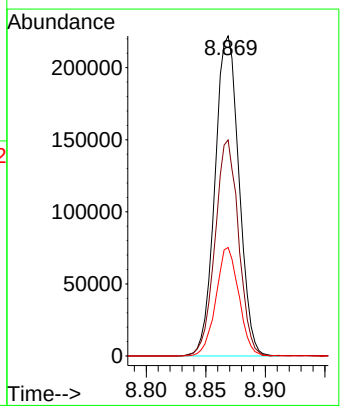
Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

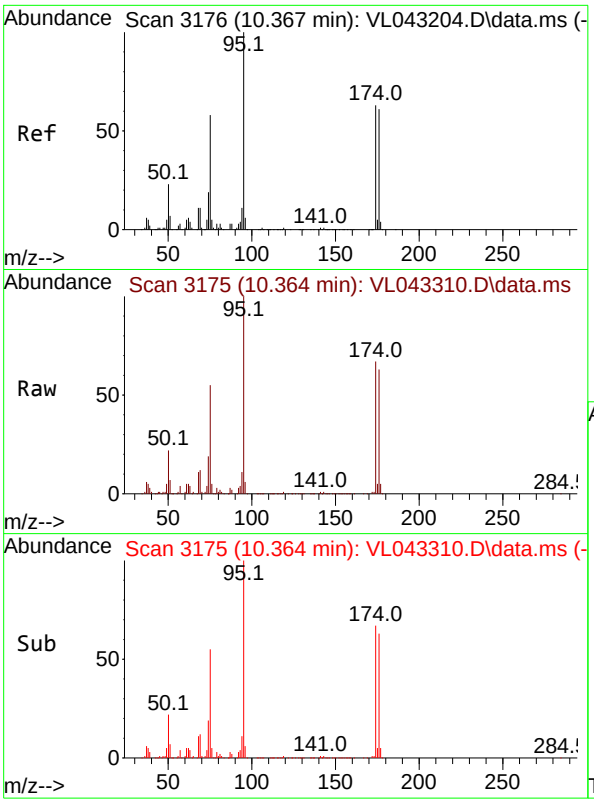


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion:117 Resp: 311445

Ion	Ratio	Lower	Upper
117	100		
82	66.3	56.1	84.1
119	32.4	25.0	37.6

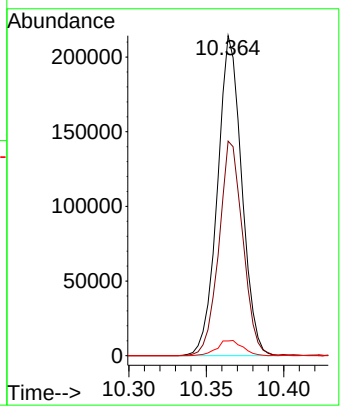




#68
1-Bromo-4-Fluorobenzene
Concen: 10.227 ppbv
RT: 10.364 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 95 Resp: 23348

Ion	Ratio	Lower	Upper
95	100		
174	66.4	50.2	75.2
175	5.1	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

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:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	9B-IA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-02	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	0.40	1.98	J	1	0.54	2.47	12/08/25 13:52	VL120825
74-87-3	Chloromethane	0.55	1.14		1	0.21	1.03	12/08/25 13:52	VL120825
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	12/08/25 13:52	VL120825
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	12/08/25 13:52	VL120825
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	12/08/25 13:52	VL120825
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	12/08/25 13:52	VL120825
75-69-4	Trichlorofluoromethane	0.20	1.12	J	1	0.96	2.81	12/08/25 13:52	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	12/08/25 13:52	VL120825
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	12/08/25 13:52	VL120825
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	12/08/25 13:52	VL120825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	12/08/25 13:52	VL120825
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	12/08/25 13:52	VL120825
67-64-1	Acetone	8.80	20.9		1	0.43	1.19	12/08/25 13:52	VL120825
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	12/08/25 13:52	VL120825
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	12/08/25 13:52	VL120825
75-09-2	Methylene Chloride	0.48	1.67	J	1	0.80	1.74	12/08/25 13:52	VL120825
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	12/08/25 13:52	VL120825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	12/08/25 13:52	VL120825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	12/08/25 13:52	VL120825
78-93-3	2-Butanone	0.30	0.88	J	1	0.18	1.47	12/08/25 13:52	VL120825
56-23-5	Carbon Tetrachloride	0.10	0.63		1	0.19	0.19	12/08/25 13:52	VL120825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	12/08/25 13:52	VL120825
67-66-3	Chloroform	0.14	0.68	J	1	0.49	2.44	12/08/25 13:52	VL120825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	12/08/25 13:52	VL120825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	12/08/25 13:52	VL120825
71-43-2	Benzene	0.15	0.48	J	1	0.26	1.60	12/08/25 13:52	VL120825
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	12/08/25 13:52	VL120825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	12/08/25 13:52	VL120825
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	12/08/25 13:52	VL120825
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	12/08/25 13:52	VL120825
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	12/08/25 13:52	VL120825
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	12/08/25 13:52	VL120825
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	12/08/25 13:52	VL120825
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	12/08/25 13:52	VL120825
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	12/08/25 13:52	VL120825
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	12/08/25 13:52	VL120825
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	12/08/25 13:52	VL120825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	12/08/25 13:52	VL120825
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	12/08/25 13:52	VL120825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	12/08/25 13:52	VL120825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	12/08/25 13:52	VL120825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	12/08/25 13:52	VL120825
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	12/08/25 13:52	VL120825
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	12/08/25 13:52	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	12/08/25 13:52	VL120825
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	12/08/25 13:52	VL120825

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	RTP Environmental	Date Collected:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	9B-IA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-02	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	12/08/25 13:52	VL120825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	12/08/25 13:52	VL120825
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	12/08/25 13:52	VL120825
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 13:52	VL120825
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 13:52	VL120825
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	12/08/25 13:52	VL120825
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	12/08/25 13:52	VL120825
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	12/08/25 13:52	VL120825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	12/08/25 13:52	VL120825
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	12/08/25 13:52	VL120825
110-54-3	Hexane	0.88	3.10		1	0.56	1.76	12/08/25 13:52	VL120825
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	12/08/25 13:52	VL120825
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	12/08/25 13:52	VL120825
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	12/08/25 13:52	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.3				70 (65) - 130 (135)	103% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	137000							
540-36-3	1,4-Difluorobenzene	358000							
3114-55-4	Chlorobenzene-d5	282000							

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\VL120825\
Data File : VL043312.D
Acq On : 08 Dec 2025 13:52
Operator : SY/MD
Sample : Q3799-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:11:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	137082	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	357699	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	281919	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	213574	10.335	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	7699	0.398	ppbv		99
3) Chlorodifluoromethane	1.476	51	4363m	0.229	ppbv		
4) Chloromethane	1.531	50	3969	0.549	ppbv		92
9) Propene	1.486	41	4514	0.559	ppbv	#	1
11) Trichlorofluoromethane	1.877	101	3724	0.199	ppbv		89
13) Ethanol	1.722	45	50530	17.797	ppbv		99
15) Acetone	1.835	43	166746	8.755	ppbv		99
19) Isopropyl Alcohol	1.884	45	109957	10.217	ppbv		99
20) Methylene Chloride	2.059	84	6881	0.479	ppbv		83
26) Hexane	2.826	57	15912	0.884	ppbv	#	52
29) Chloroform	2.842	83	3468m	0.135	ppbv		
34) 2-Butanone	2.560	43	7477	0.296	ppbv		94
35) Carbon Tetrachloride	3.755	117	2649m	0.098	ppbv		
36) Benzene	3.648	78	5022	0.147	ppbv	#	77
53) Toluene	6.923	91	4569m	0.113	ppbv		

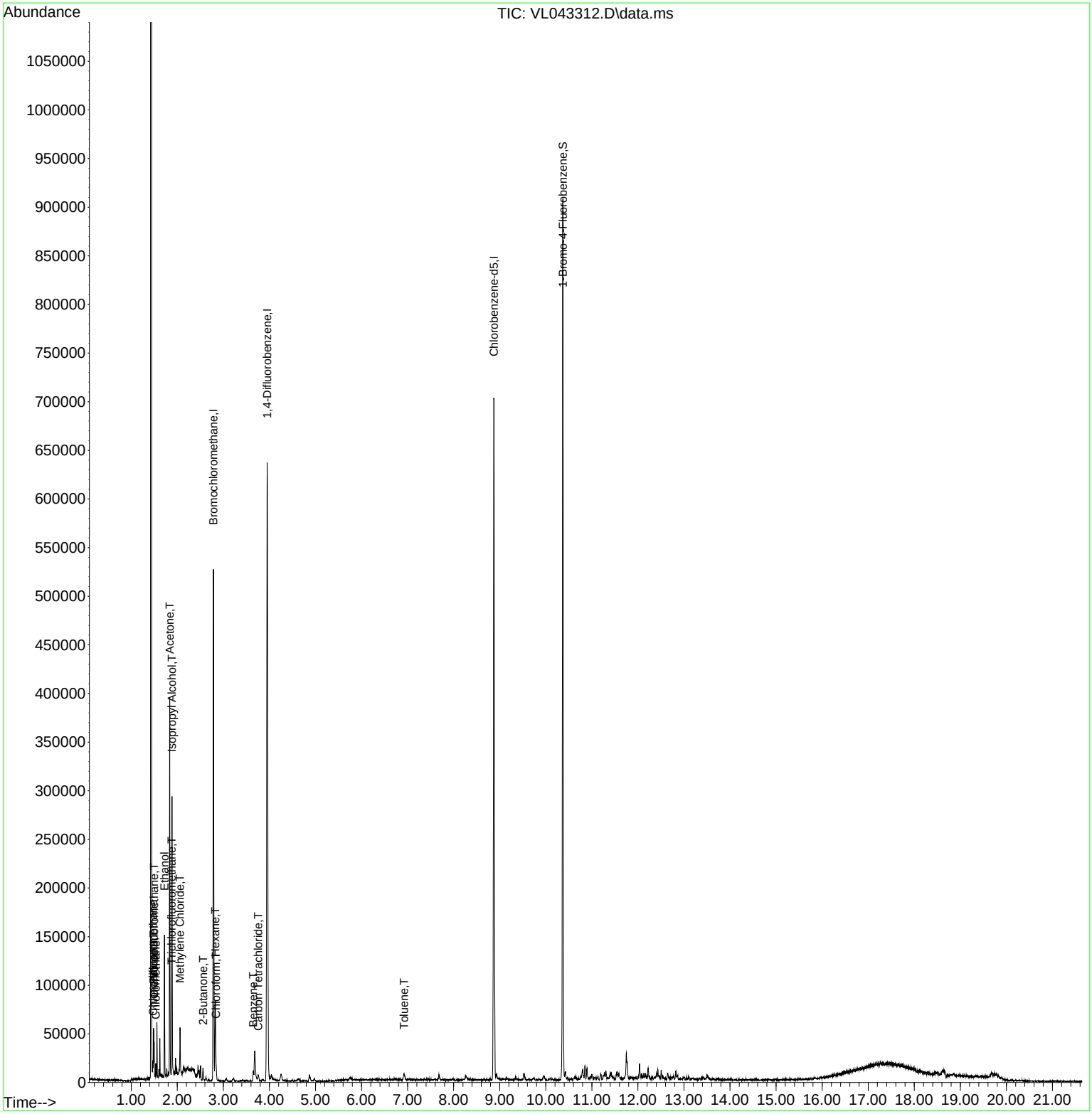
(#) = qualifier out of range (m) = manual integration (+) = signals summed

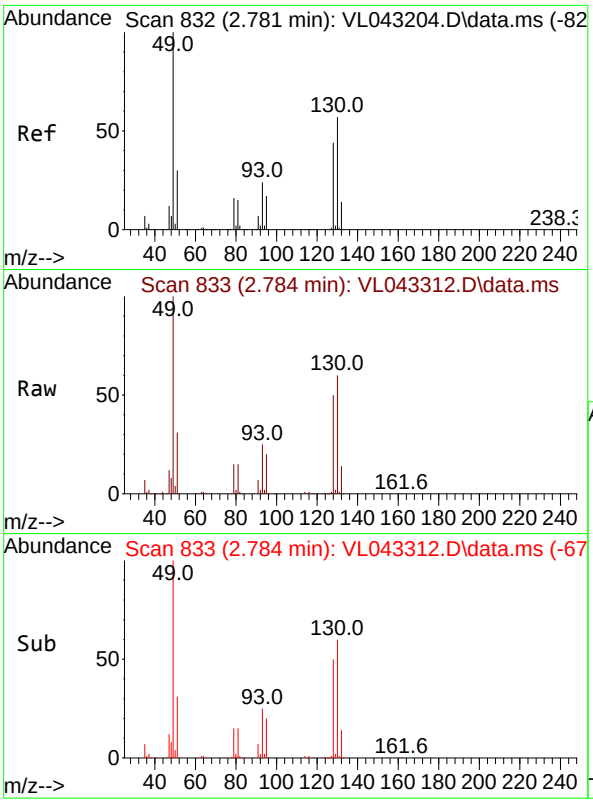
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043312.D
Acq On : 08 Dec 2025 13:52
Operator : SY/MD
Sample : Q3799-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:11:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

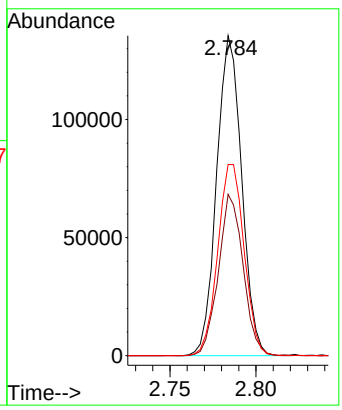




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 49 Resp: 13708

Ion	Ratio	Lower	Upper
49	100		
128	49.8	23.0	69.0
130	63.2	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

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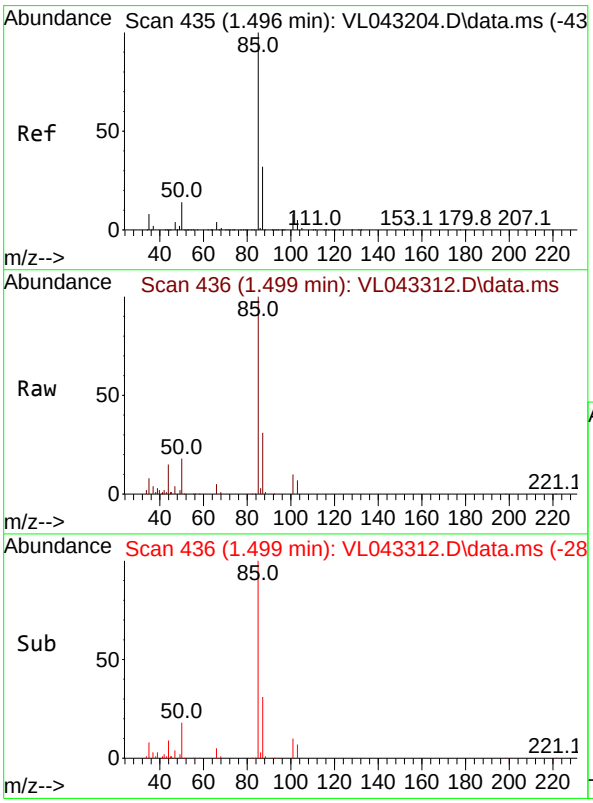
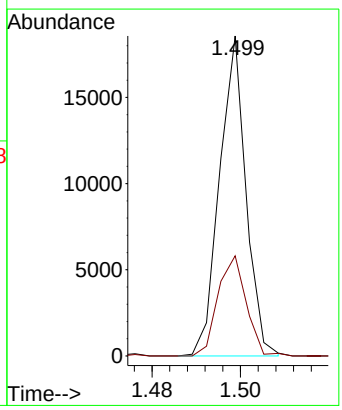
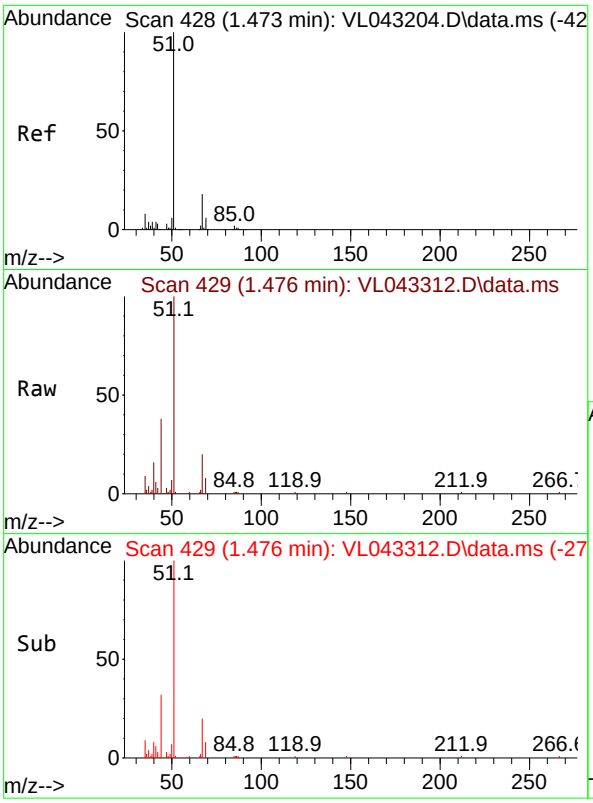


#2
Dichlorodifluoromethane
Concen: 0.398 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 85 Resp: 7699

Ion	Ratio	Lower	Upper
85	100		
87	31.3	25.4	38.2

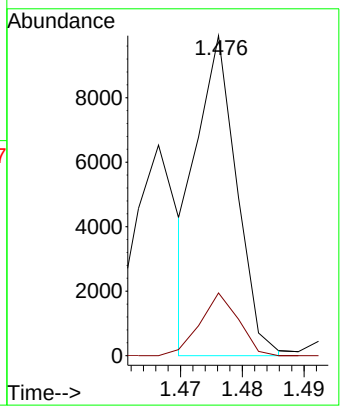




#3
Chlorodifluoromethane
Concen: 0.229 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 51 Resp: 436

Ion	Ratio	Lower	Upper
51	100		
67	19.3	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

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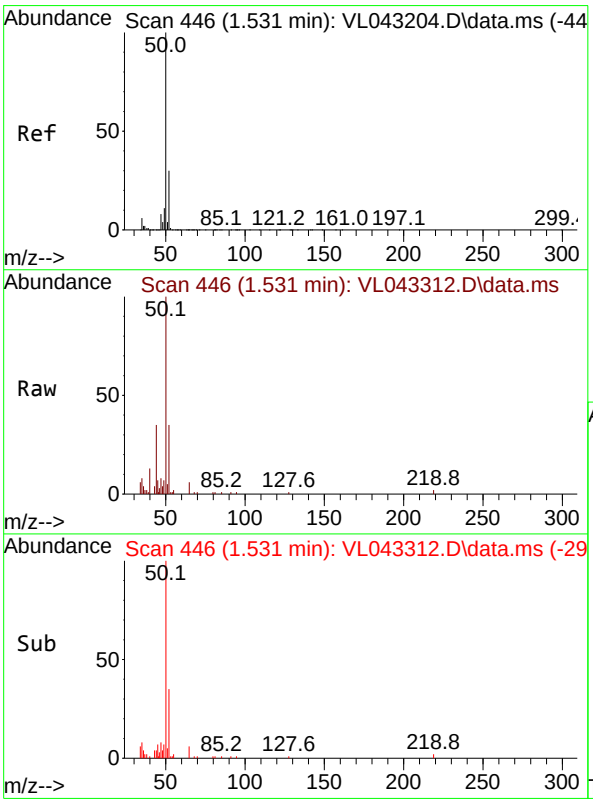
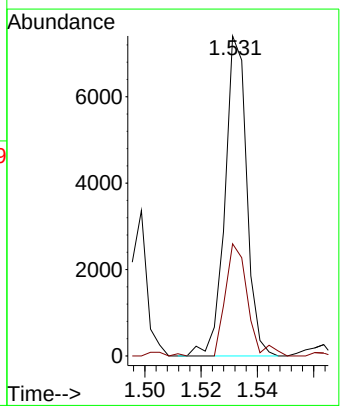
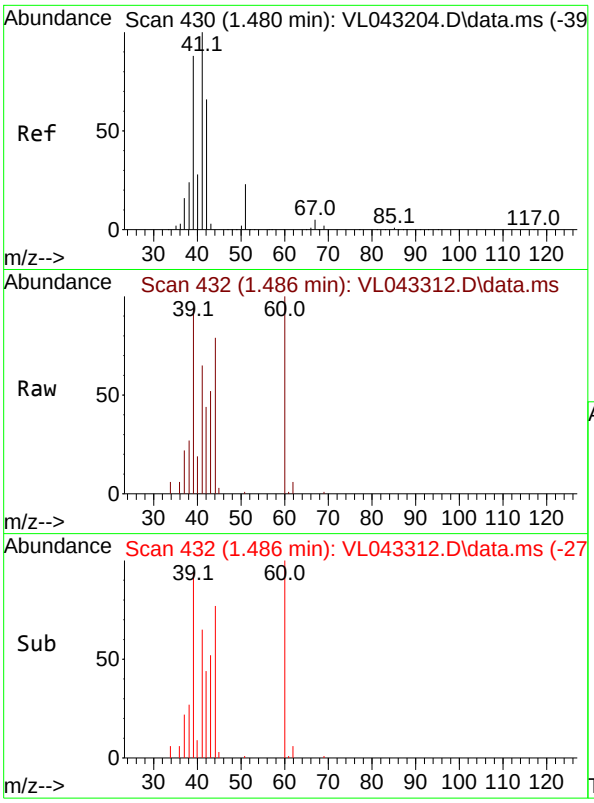


#4
Chloromethane
Concen: 0.549 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 50 Resp: 3969

Ion	Ratio	Lower	Upper
50	100		
52	34.3	24.1	36.1

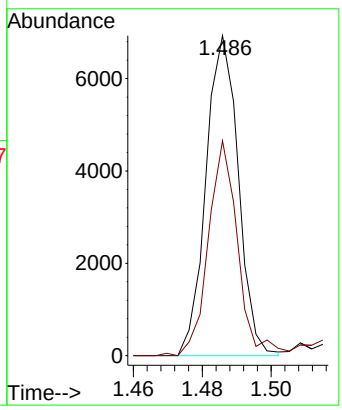




#9
Propene
Concen: 0.559 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 41 Resp: 451

Ion	Ratio	Lower	Upper
41	100		
42	61.9	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

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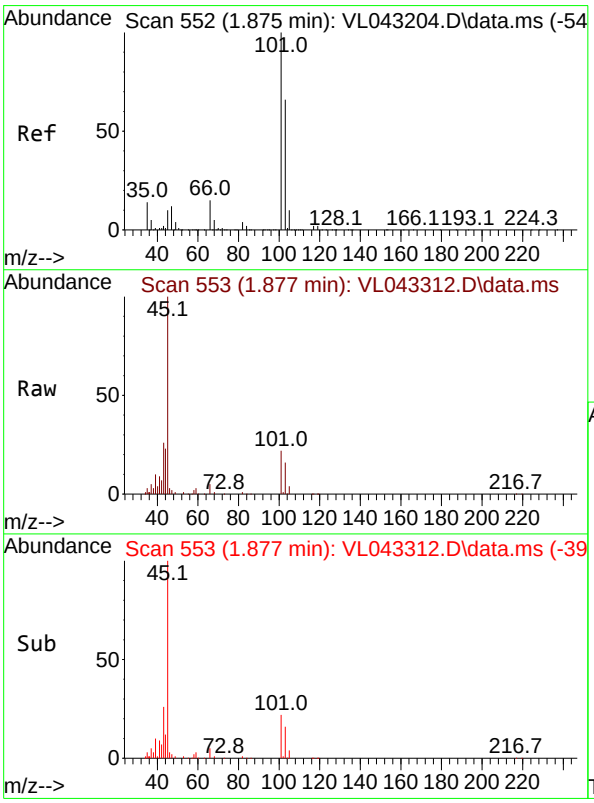
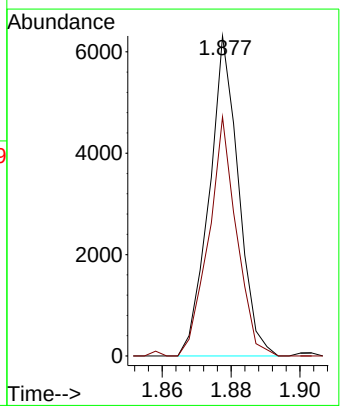
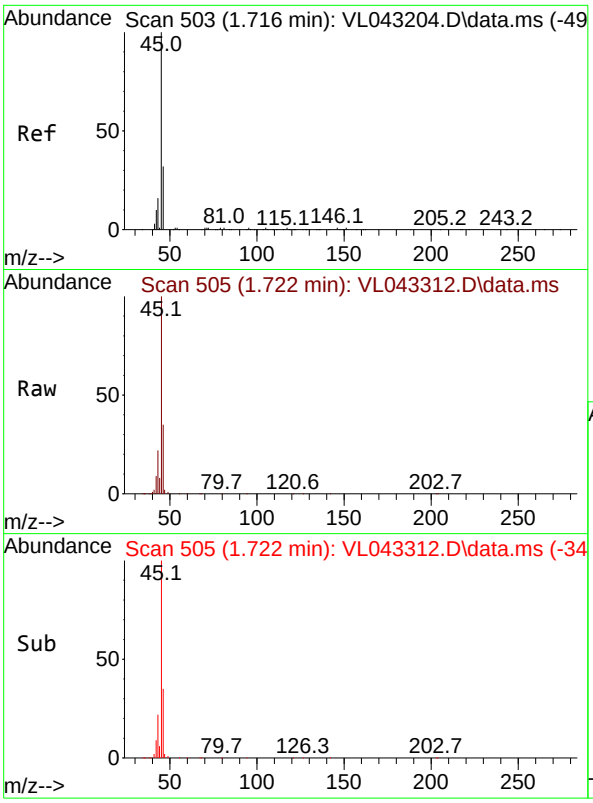


#11
Trichlorofluoromethane
Concen: 0.199 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion:101 Resp: 3724

Ion	Ratio	Lower	Upper
101	100		
103	74.7	52.6	79.0

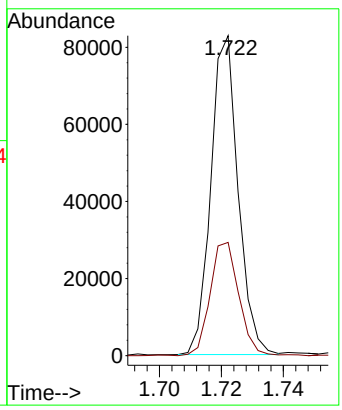




#13
Ethanol
Concen: 17.797 ppbv
RT: 1.722 min Scan# 5(
Delta R.T. 0.006 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 45 Resp: 5053(

Ion	Ratio	Lower	Upper
45	100		
46	38.1	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

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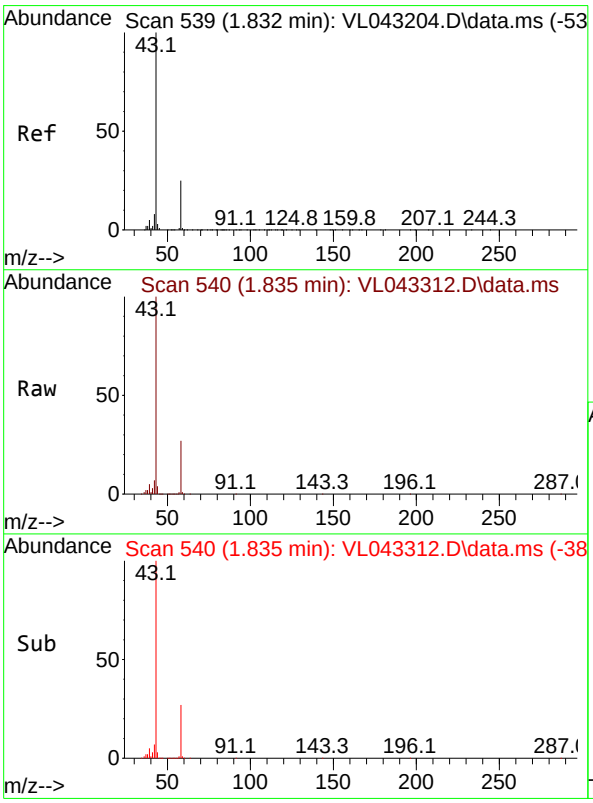
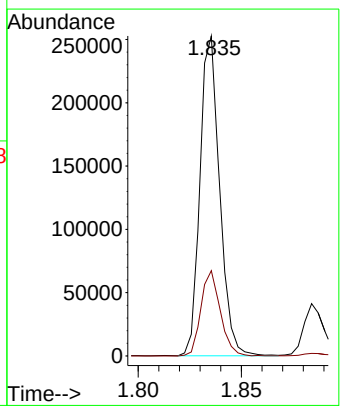
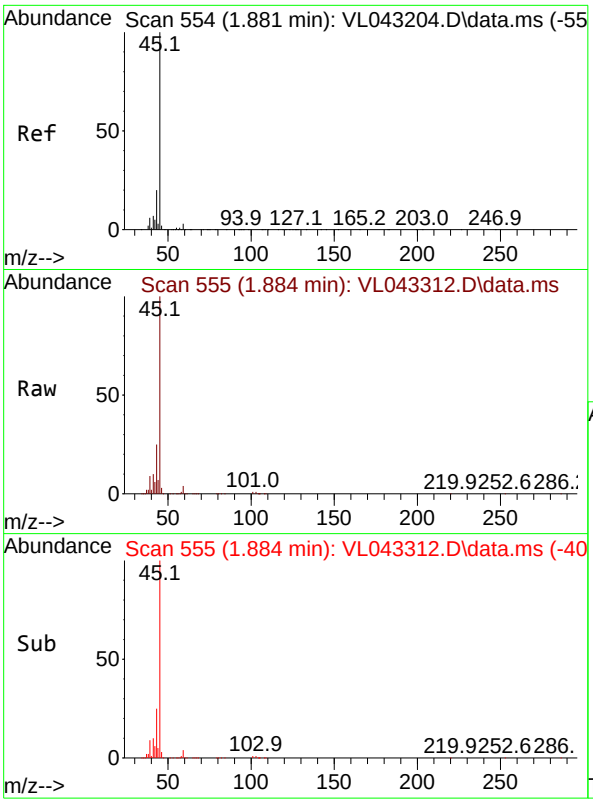


#15
Acetone
Concen: 8.755 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 43 Resp: 166746

Ion	Ratio	Lower	Upper
43	100		
58	26.3	20.7	31.1

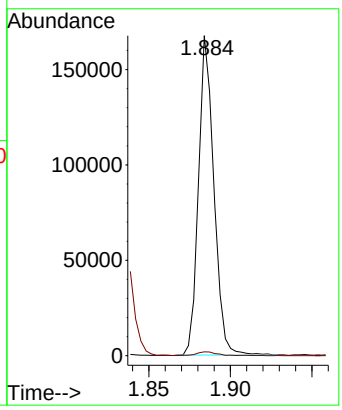




#19
Isopropyl Alcohol
Concen: 10.217 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 45 Resp: 10995

Ion	Ratio	Lower	Upper
45	100		
58	39.9	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

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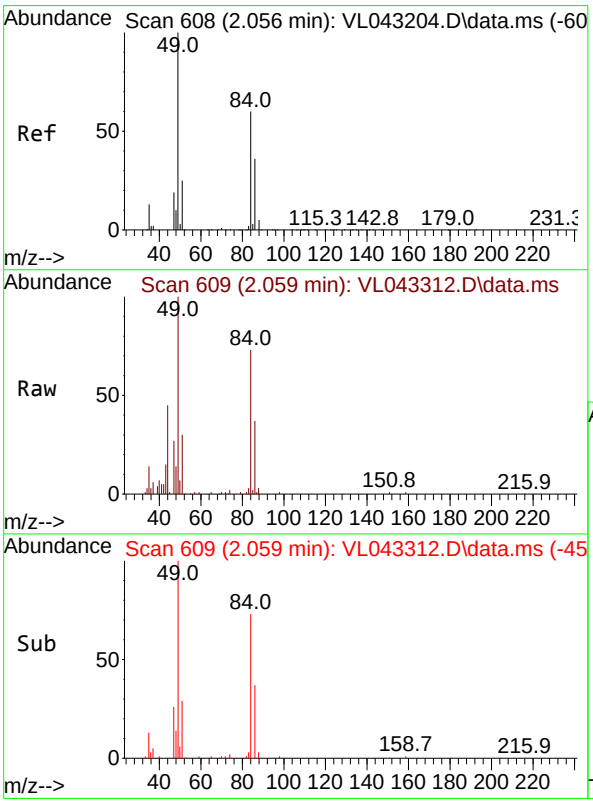
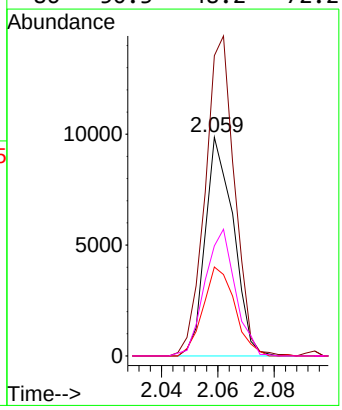
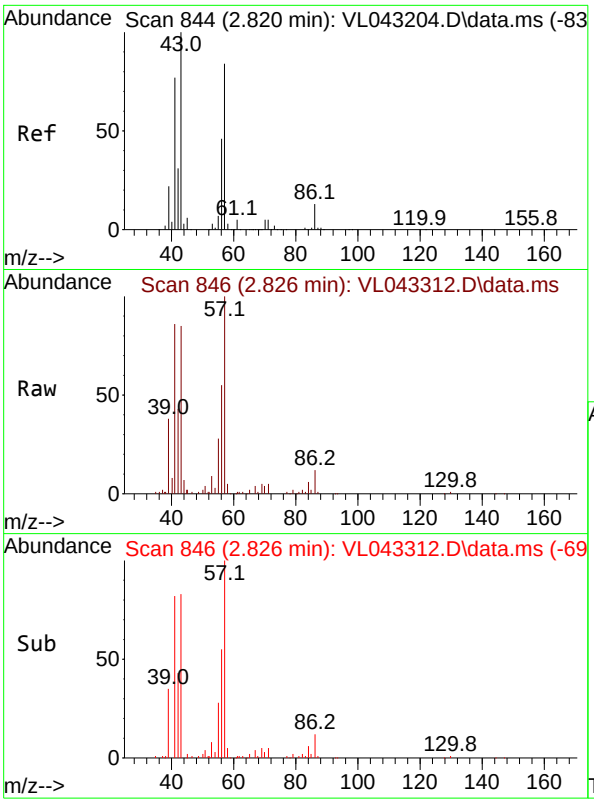


#20
Methylene Chloride
Concen: 0.479 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 84 Resp: 6881

Ion	Ratio	Lower	Upper
84	100		
49	136.6	132.9	199.3
51	40.7	34.8	52.2
86	50.3	48.2	72.2

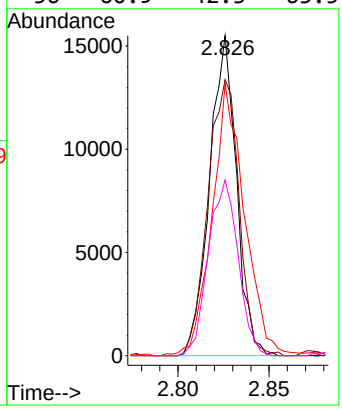




#26
Hexane
Concen: 0.884 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 57 Resp: 1591

Ion	Ratio	Lower	Upper
57	100		
41	100.0	74.6	111.8
43	104.4	179.0	268.4
56	60.9	42.3	63.5



Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Manual Integrations
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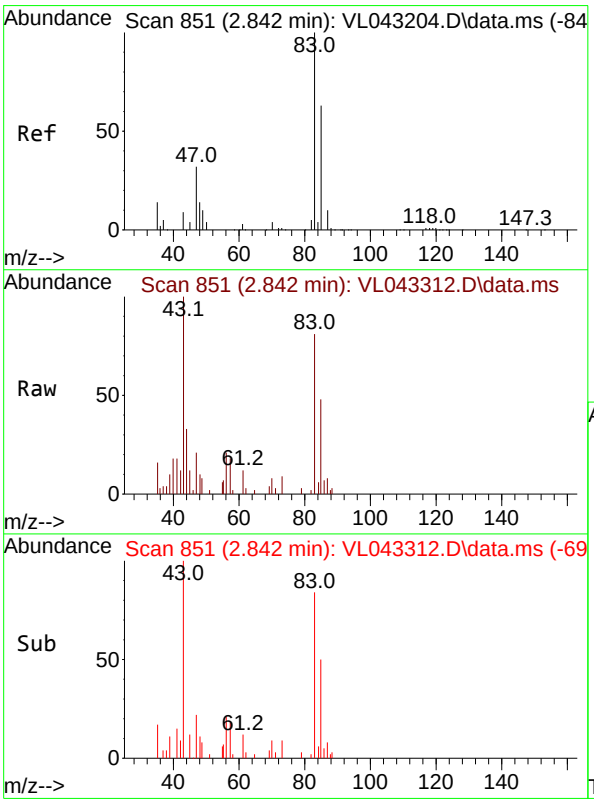
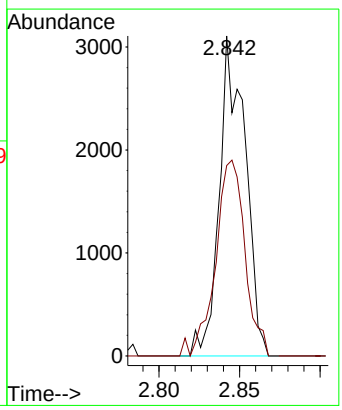
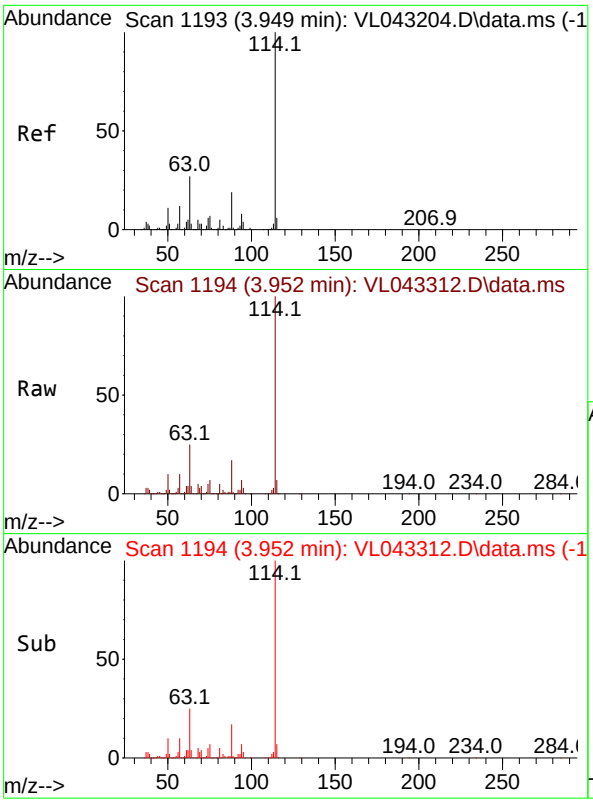


#29
Chloroform
Concen: 0.135 ppbv m
RT: 2.842 min Scan# 851
Delta R.T. -0.000 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 83 Resp: 3468

Ion	Ratio	Lower	Upper
83	100		
85	59.5	50.5	75.7

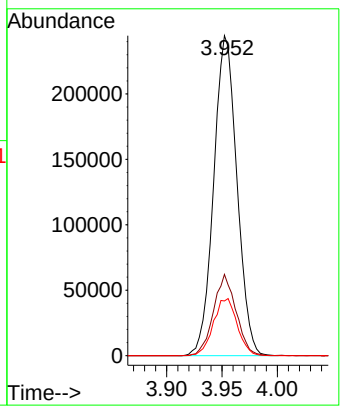




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion:114 Resp: 35769

Ion	Ratio	Lower	Upper
114	100		
63	24.7	21.0	31.6
88	18.3	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

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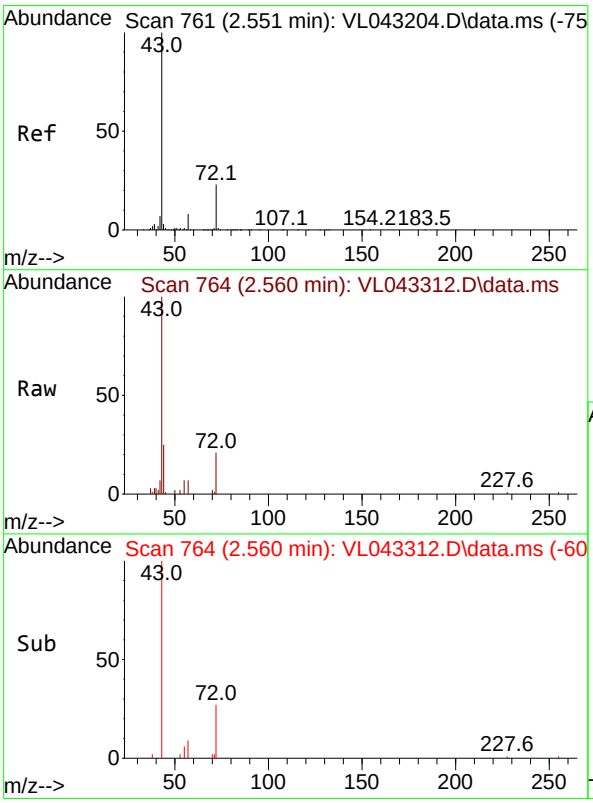
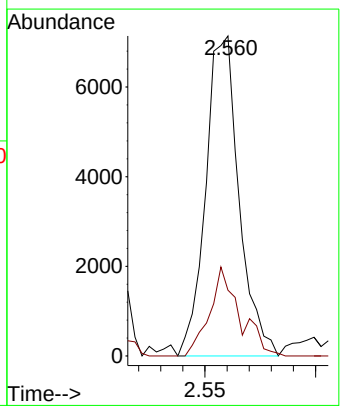
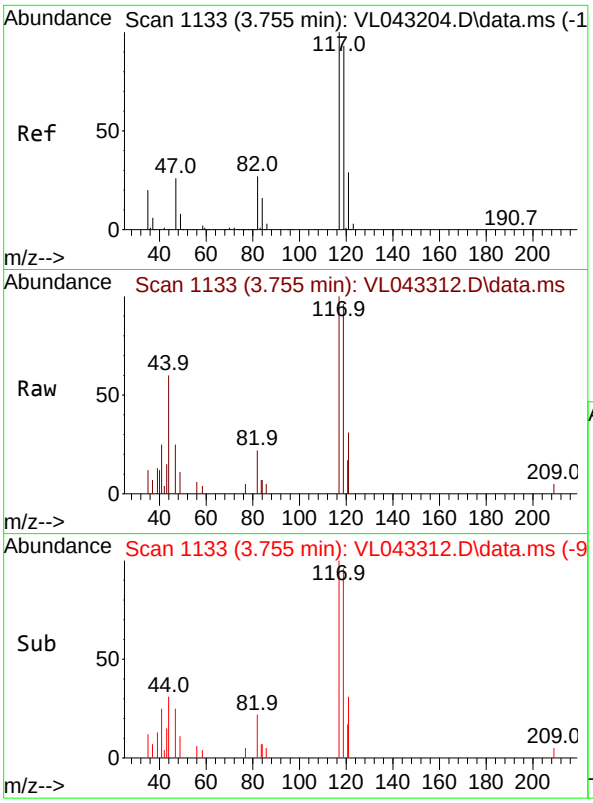


#34
2-Butanone
Concen: 0.296 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.009 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 43 Resp: 7477

Ion	Ratio	Lower	Upper
43	100		
72	25.3	18.1	27.1

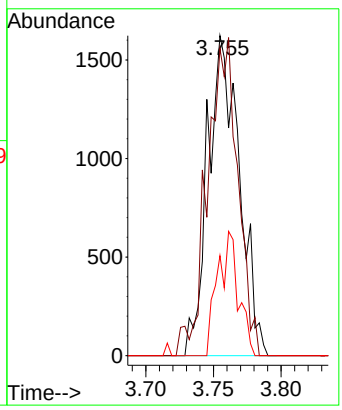




#35
Carbon Tetrachloride
Concen: 0.098 ppbv m
RT: 3.755 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion:117 Resp: 264

Ion	Ratio	Lower	Upper
117	100		
119	96.0	74.6	112.0
121	31.2	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

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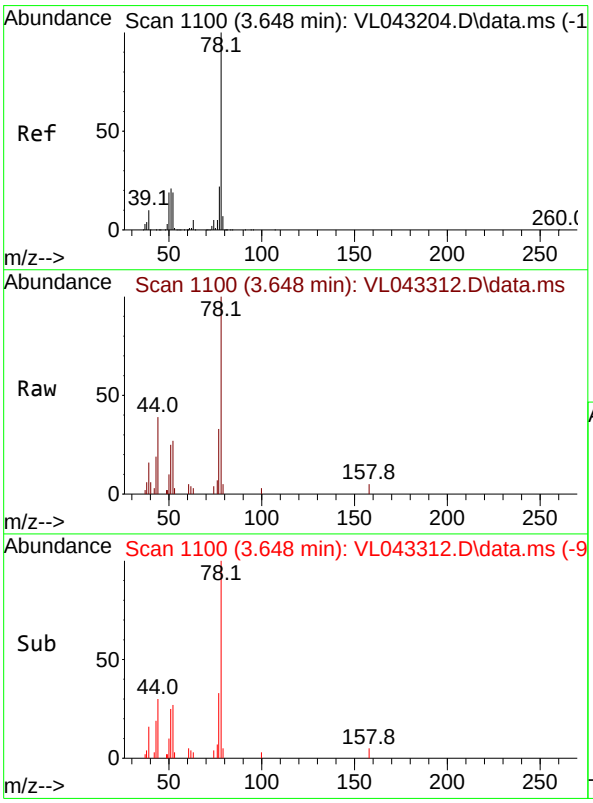
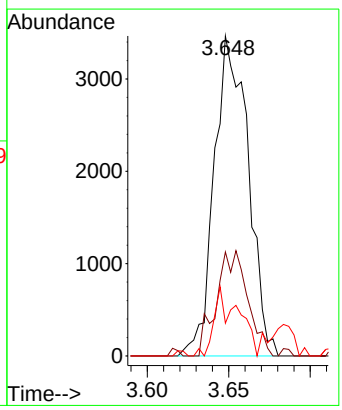
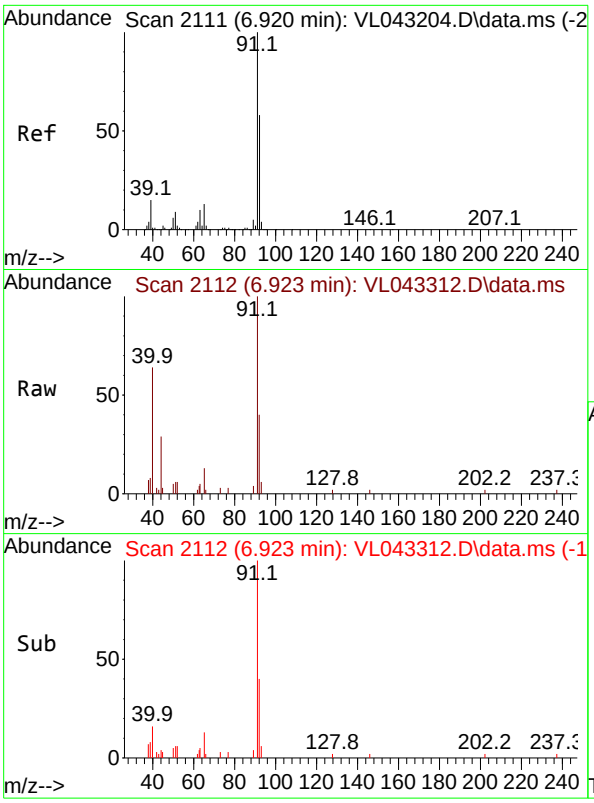


#36
Benzene
Concen: 0.147 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 78 Resp: 5022

Ion	Ratio	Lower	Upper
78	100		
77	32.5	17.5	26.3#
50	8.7	15.5	23.3#

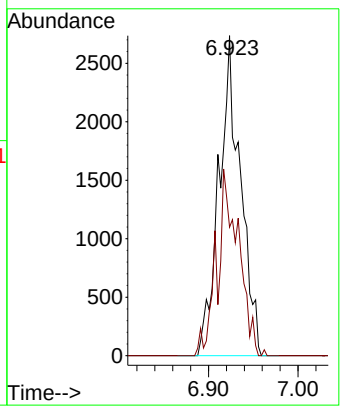




#53
Toluene
Concen: 0.113 ppbv m
RT: 6.923 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 91 Resp: 456

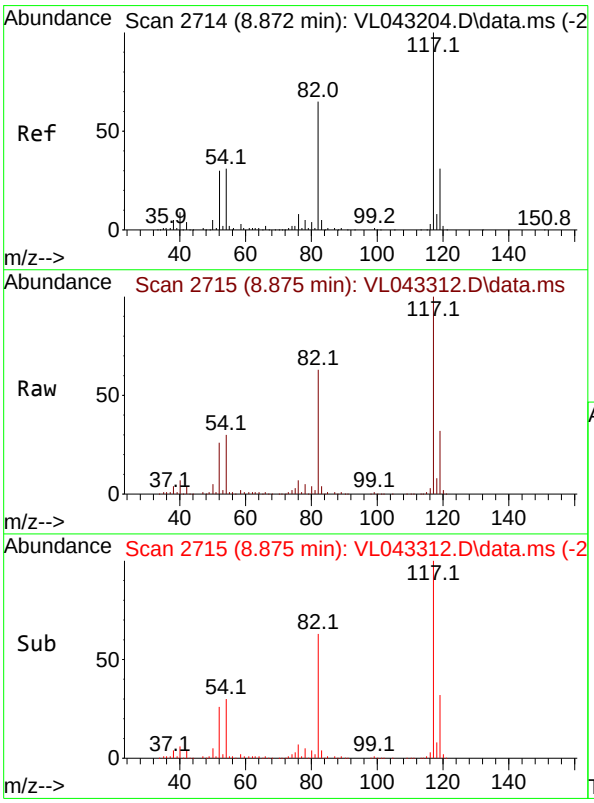
Ion	Ratio	Lower	Upper
91	100		
92	58.1	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Manual Integrations
APPROVED

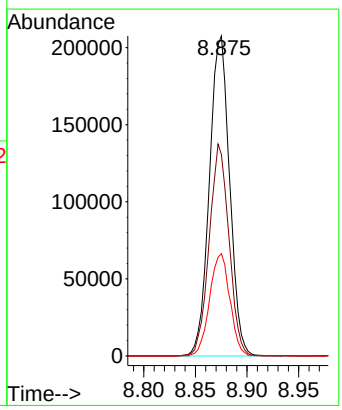
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

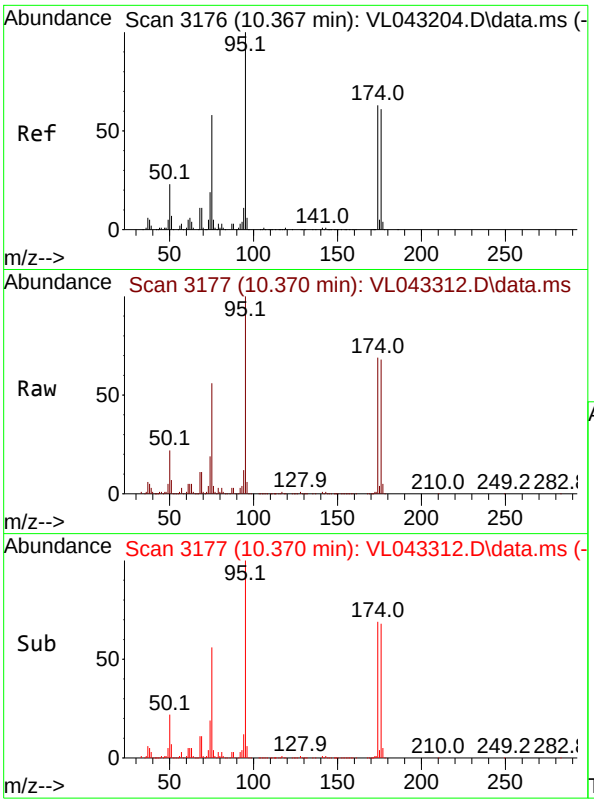


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion:117 Resp: 281919

Ion	Ratio	Lower	Upper
117	100		
82	64.8	56.1	84.1
119	32.1	25.0	37.6

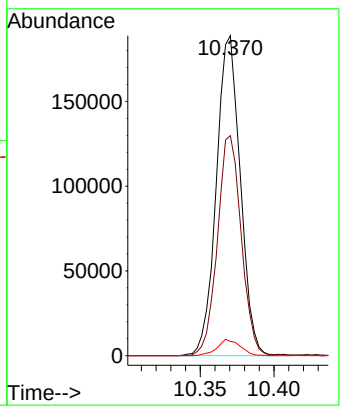




#68
1-Bromo-4-Fluorobenzene
Concen: 10.335 ppbv
RT: 10.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 95 Resp: 21357

Ion	Ratio	Lower	Upper
95	100		
174	68.6	50.2	75.2
175	4.9	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

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:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	10-IA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-03	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	0.41	2.03	J	1	0.54	2.47	12/08/25 14:29	VL120825
74-87-3	Chloromethane	0.46	0.95	J	1	0.21	1.03	12/08/25 14:29	VL120825
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	12/08/25 14:29	VL120825
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	12/08/25 14:29	VL120825
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	12/08/25 14:29	VL120825
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	12/08/25 14:29	VL120825
75-69-4	Trichlorofluoromethane	0.23	1.29	J	1	0.96	2.81	12/08/25 14:29	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	12/08/25 14:29	VL120825
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	12/08/25 14:29	VL120825
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	12/08/25 14:29	VL120825
142-82-5	Heptane	0.17	0.70	J	1	0.70	2.05	12/08/25 14:29	VL120825
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	12/08/25 14:29	VL120825
67-64-1	Acetone	290	689	E	1	0.43	1.19	12/08/25 14:29	VL120825
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	12/08/25 14:29	VL120825
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	12/08/25 14:29	VL120825
75-09-2	Methylene Chloride	15.9	55.2	E	1	0.80	1.74	12/08/25 14:29	VL120825
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	12/08/25 14:29	VL120825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	12/08/25 14:29	VL120825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	12/08/25 14:29	VL120825
78-93-3	2-Butanone	0.55	1.62		1	0.18	1.47	12/08/25 14:29	VL120825
56-23-5	Carbon Tetrachloride	0.090	0.57		1	0.19	0.19	12/08/25 14:29	VL120825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	12/08/25 14:29	VL120825
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	12/08/25 14:29	VL120825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	12/08/25 14:29	VL120825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	12/08/25 14:29	VL120825
71-43-2	Benzene	0.16	0.51	J	1	0.26	1.60	12/08/25 14:29	VL120825
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	12/08/25 14:29	VL120825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	12/08/25 14:29	VL120825
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	12/08/25 14:29	VL120825
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	12/08/25 14:29	VL120825
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	12/08/25 14:29	VL120825
108-88-3	Toluene	0.45	1.70	J	1	0.60	1.88	12/08/25 14:29	VL120825
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	12/08/25 14:29	VL120825
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	12/08/25 14:29	VL120825
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	12/08/25 14:29	VL120825
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	12/08/25 14:29	VL120825
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	12/08/25 14:29	VL120825
127-18-4	Tetrachloroethene	0.040	0.27		1	0.14	0.20	12/08/25 14:29	VL120825
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	12/08/25 14:29	VL120825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	12/08/25 14:29	VL120825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	12/08/25 14:29	VL120825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	12/08/25 14:29	VL120825
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	12/08/25 14:29	VL120825
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	12/08/25 14:29	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	12/08/25 14:29	VL120825
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	12/08/25 14:29	VL120825

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	RTP Environmental	Date Collected:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	10-IA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-03	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	12/08/25 14:29	VL120825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	12/08/25 14:29	VL120825
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	12/08/25 14:29	VL120825
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 14:29	VL120825
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 14:29	VL120825
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	12/08/25 14:29	VL120825
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	12/08/25 14:29	VL120825
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	12/08/25 14:29	VL120825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	12/08/25 14:29	VL120825
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	12/08/25 14:29	VL120825
110-54-3	Hexane	0.16	0.56	U	1	0.56	1.76	12/08/25 14:29	VL120825
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	12/08/25 14:29	VL120825
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	12/08/25 14:29	VL120825
80-62-6	Methyl Methacrylate	65.2	267	E	1	0.57	2.05	12/08/25 14:29	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.4				70 (65) - 130 (135)	104% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	142000							
540-36-3	1,4-Difluorobenzene	362000							
3114-55-4	Chlorobenzene-d5	300000							

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\VL120825\
Data File : VL043313.D
Acq On : 08 Dec 2025 14:29
Operator : SY/MD
Sample : Q3799-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:11:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	142316	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	361997	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	299956	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	227860	10.363	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.495	85	8224	0.410	ppbv		96
3) Chlorodifluoromethane	1.476	51	4267m	0.216	ppbv		
4) Chloromethane	1.531	50	3421	0.456	ppbv		95
9) Propene	1.482	41	14885	1.776	ppbv	#	86
10) Heptane	4.962	43	4267m	0.171	ppbv		
11) Trichlorofluoromethane	1.874	101	4374	0.225	ppbv		97
13) Ethanol	1.722	45	357639	121.331	ppbv		98
15) Acetone	1.842	43	5690107	287.779	ppbv	#	17
19) Isopropyl Alcohol	1.897	45	4546385	406.914	ppbv	#	36
20) Methylene Chloride	2.062	84	89672	15.850	ppbv		92
25) Ethyl Acetate	2.832	43	841516m	19.733	ppbv		
34) 2-Butanone	2.557	43	14010	0.548	ppbv		99
35) Carbon Tetrachloride	3.761	117	2513	0.091	ppbv	#	84
36) Benzene	3.654	78	5665	0.163	ppbv		98
43) Methyl Methacrylate	4.871	69	1199833	65.204	ppbv		96
52) Tetrachloroethene	8.218	164	477m	0.037	ppbv		
53) Toluene	6.920	91	18366	0.447	ppbv		100
59) m/p-Xylene	9.526	91	5545m	0.120	ppbv		
61) Styrene	9.862	104	2236m	0.110	ppbv		

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043313.D
Acq On : 08 Dec 2025 14:29
Operator : SY/MD
Sample : Q3799-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:11:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

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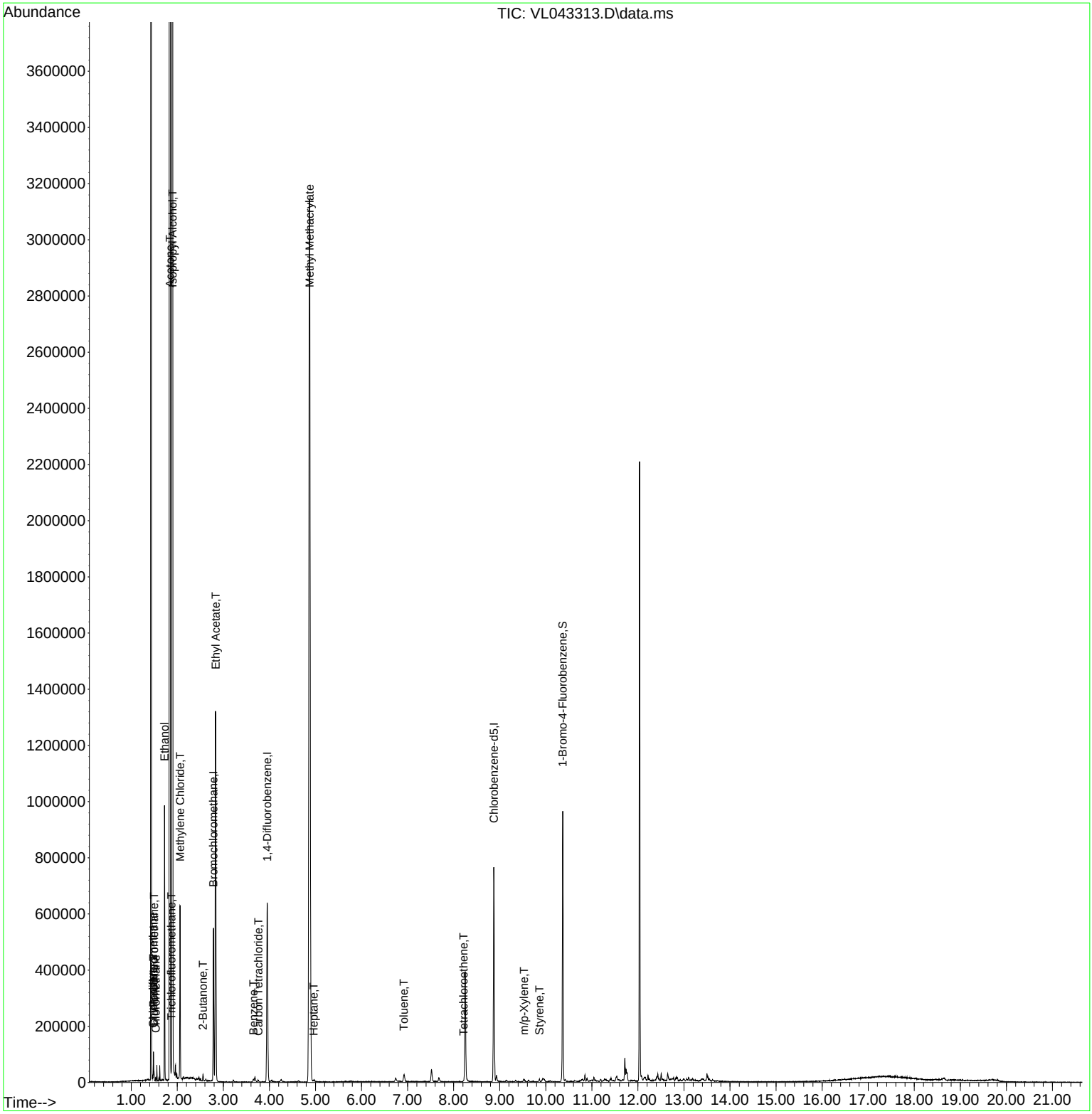
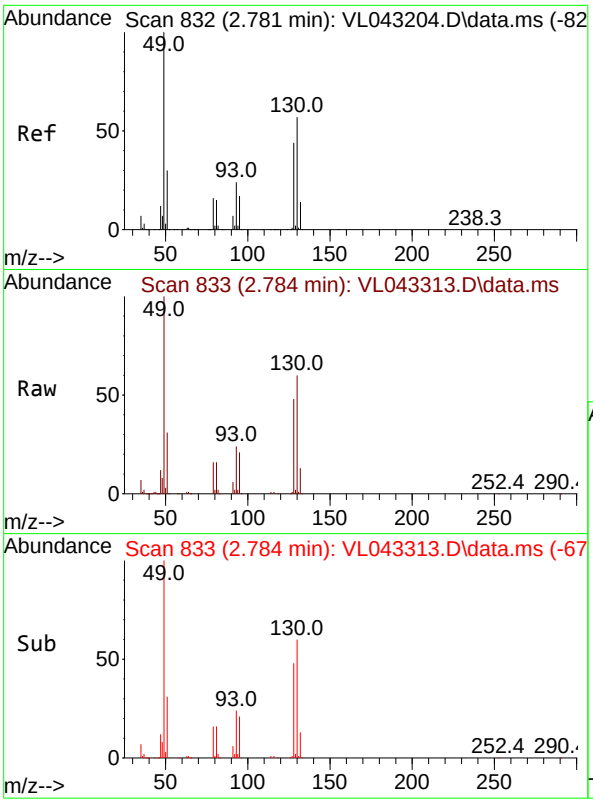
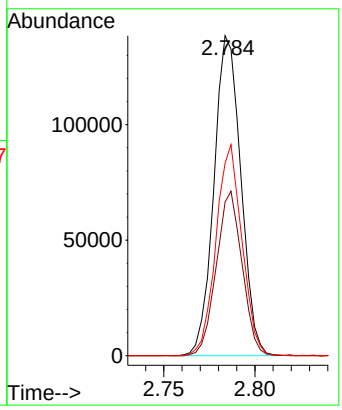




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 49 Resp: 14231

Ion	Ratio	Lower	Upper
49	100		
128	49.2	23.0	69.0
130	63.6	29.9	89.7



Instrument :
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ClientSampleId :
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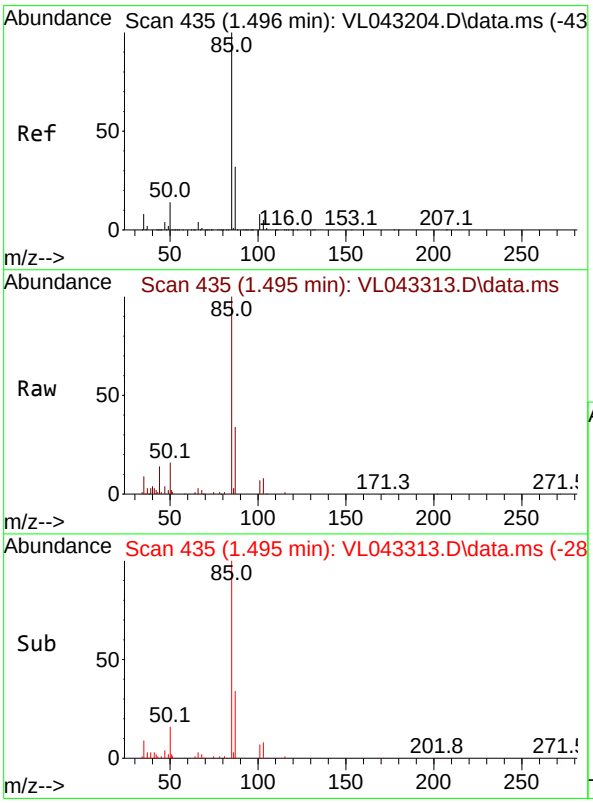
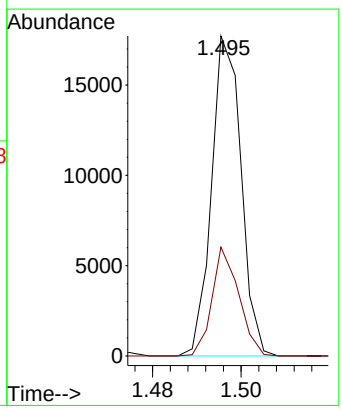
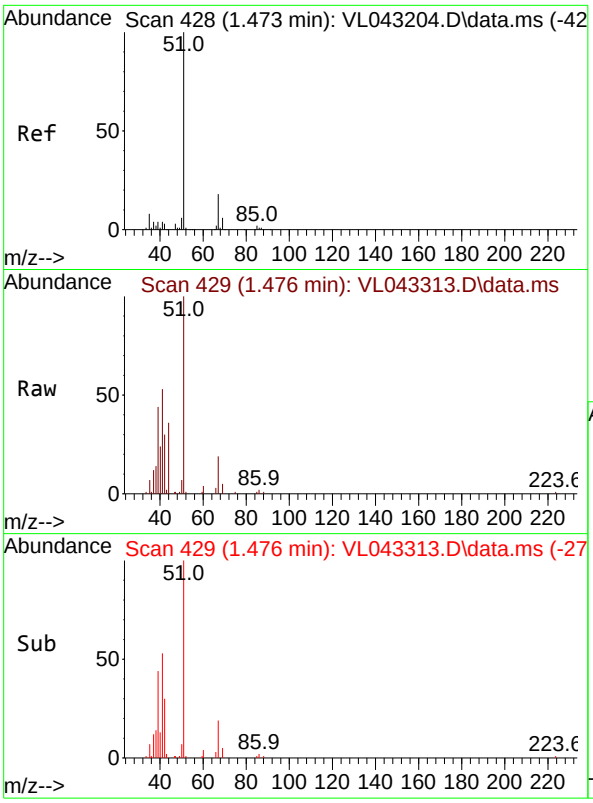


#2
Dichlorodifluoromethane
Concen: 0.410 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 85 Resp: 8224

Ion	Ratio	Lower	Upper
85	100		
87	34.0	25.4	38.2

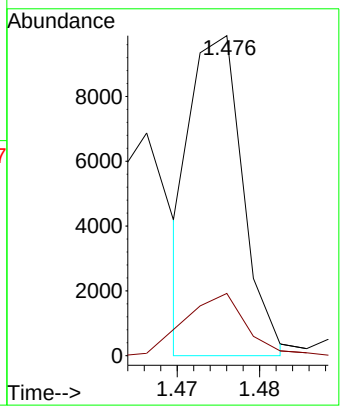




#3
Chlorodifluoromethane
Concen: 0.216 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 51 Resp: 426

Ion	Ratio	Lower	Upper
51	100		
67	23.6	14.9	22.3#



Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

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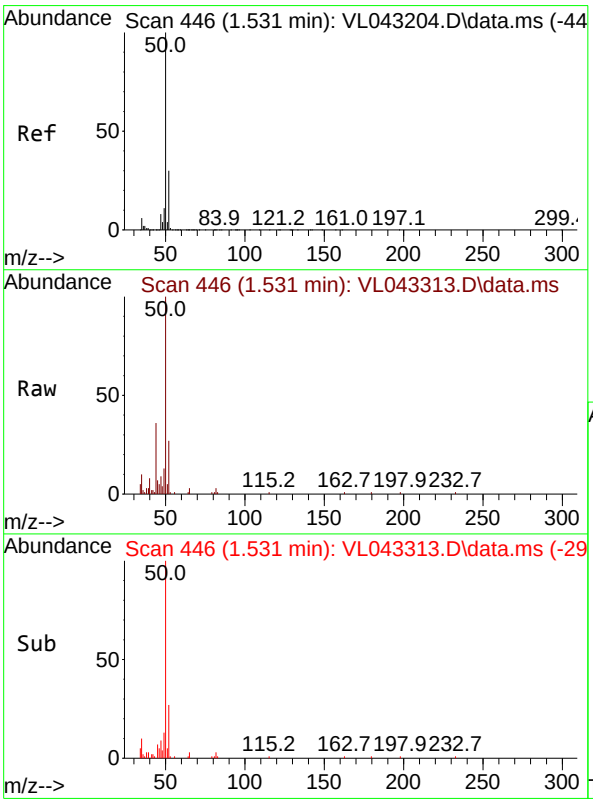
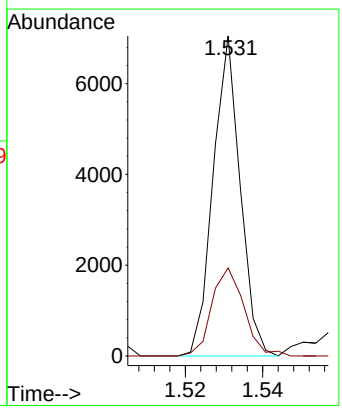
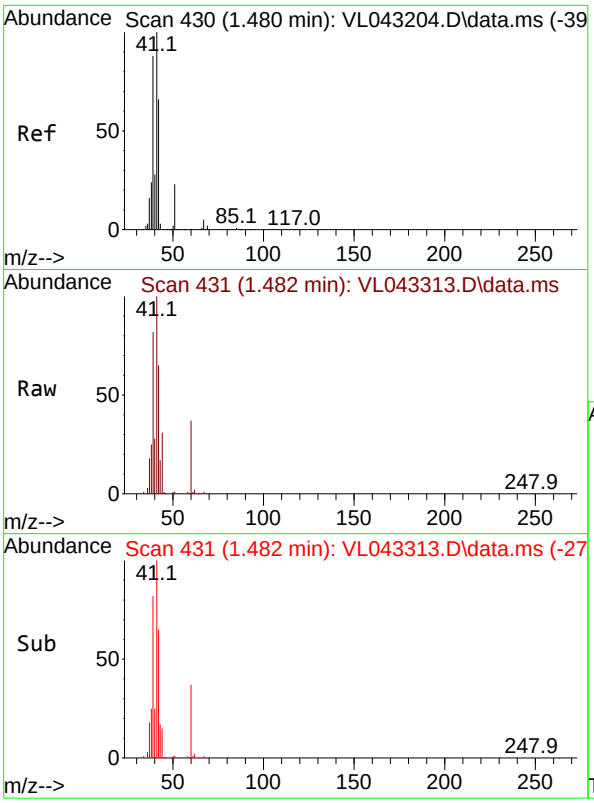


#4
Chloromethane
Concen: 0.456 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 50 Resp: 3421

Ion	Ratio	Lower	Upper
50	100		
52	27.5	24.1	36.1

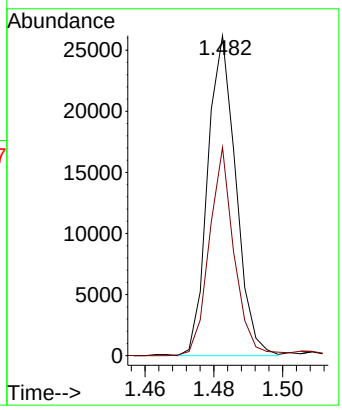




#9
Propene
Concen: 1.776 ppbv
RT: 1.482 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 41 Resp: 1488

Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5#



Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

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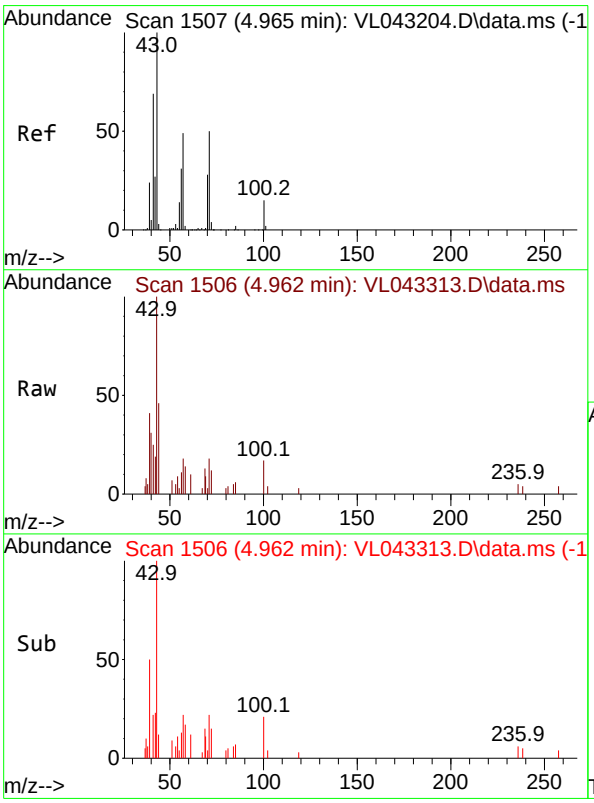
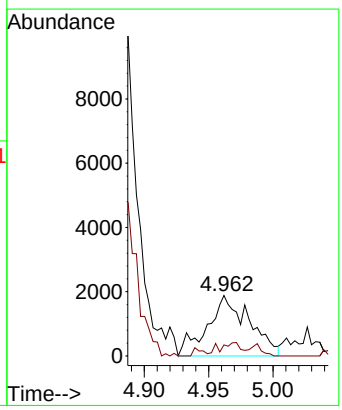
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

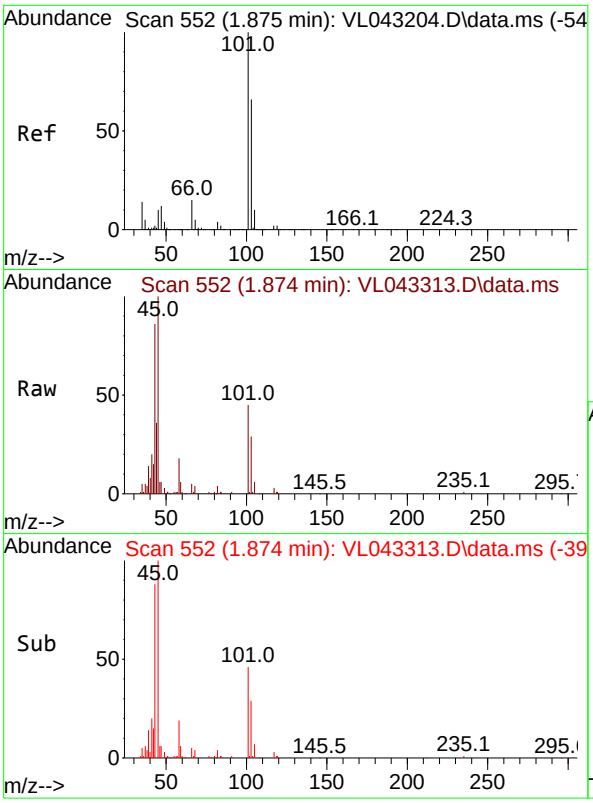


#10
Heptane
Concen: 0.171 ppbv m
RT: 4.962 min Scan# 1506
Delta R.T. -0.004 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 43 Resp: 4267

Ion	Ratio	Lower	Upper
43	100		
57	19.5	39.7	59.5#

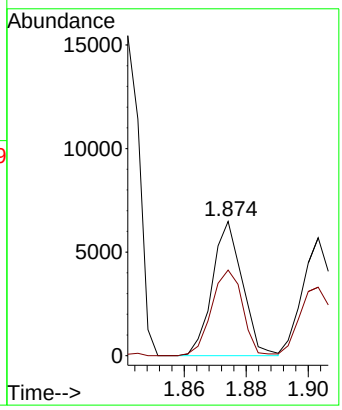




#11
Trichlorofluoromethane
Concen: 0.225 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion:101 Resp: 437

Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

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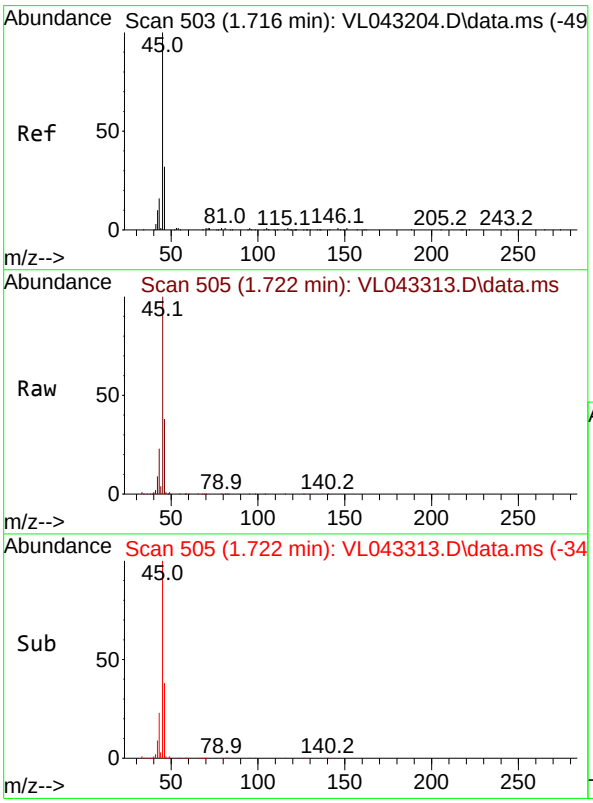
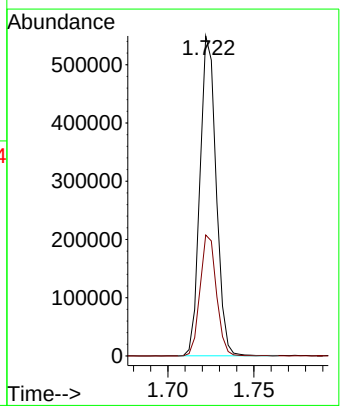
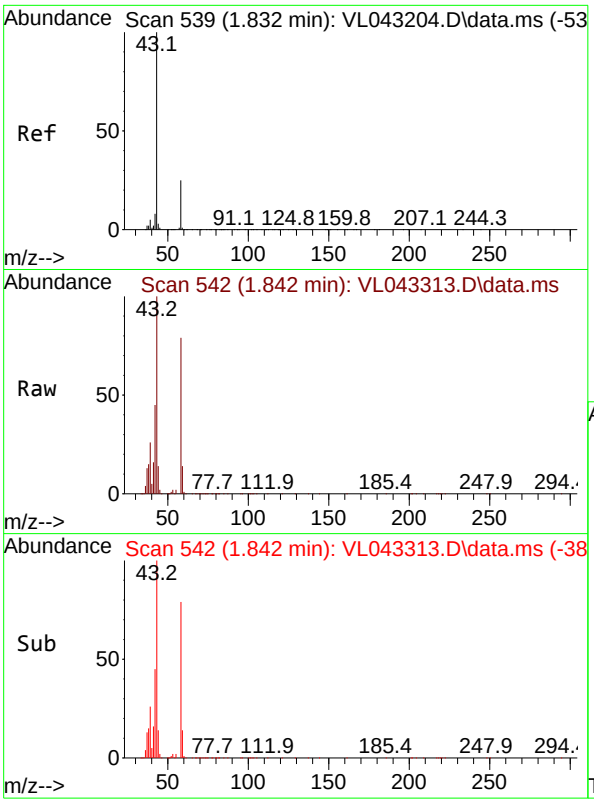


#13
Ethanol
Concen: 121.331 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 45 Resp: 357639

Ion	Ratio	Lower	Upper
45	100		
46	38.4	15.0	59.8

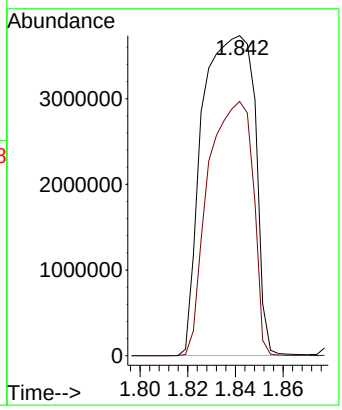




#15
Acetone
Concen: 287.779 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.009 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 43 Resp: 569010

Ion	Ratio	Lower	Upper
43	100		
58	68.0	20.7	31.1#



Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

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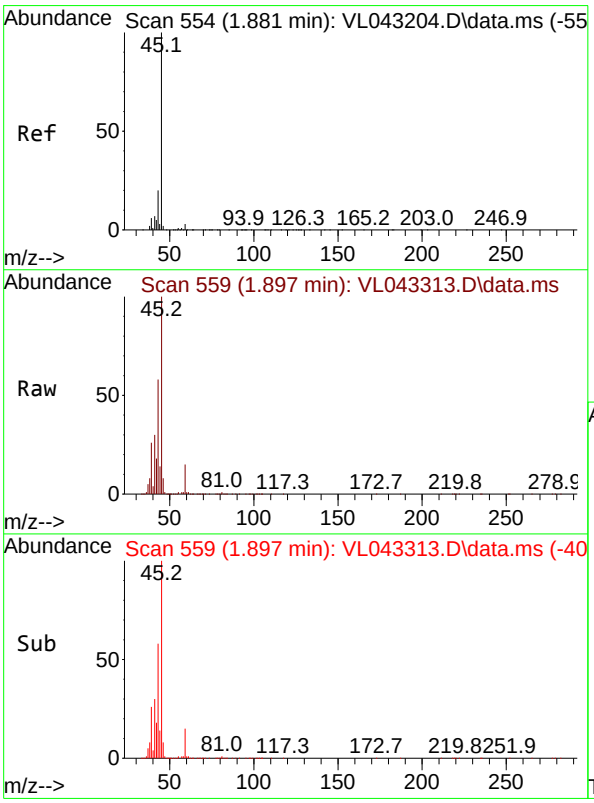
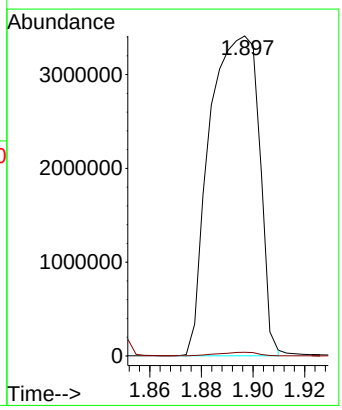
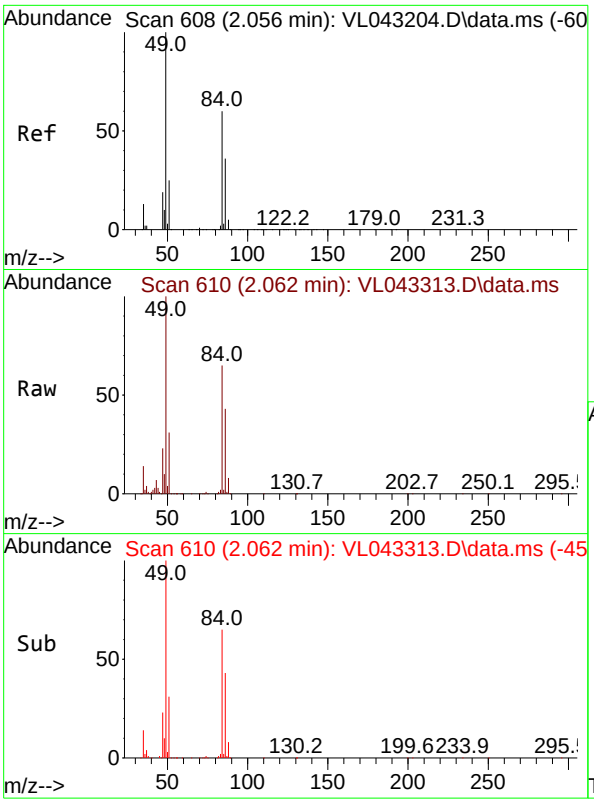


#19
Isopropyl Alcohol
Concen: 406.914 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.016 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 45 Resp: 4546385

Ion	Ratio	Lower	Upper
45	100		
58	0.0	31.3	46.9#

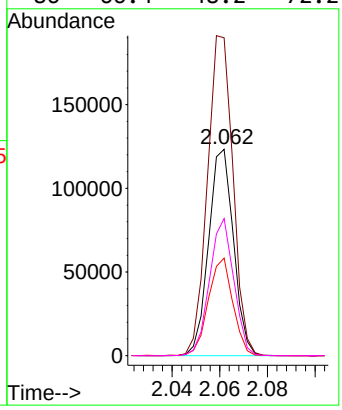




#20
Methylene Chloride
Concen: 15.850 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 84 Resp: 8967

Ion	Ratio	Lower	Upper
84	100		
49	154.0	132.9	199.3
51	47.3	34.8	52.2
86	66.4	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

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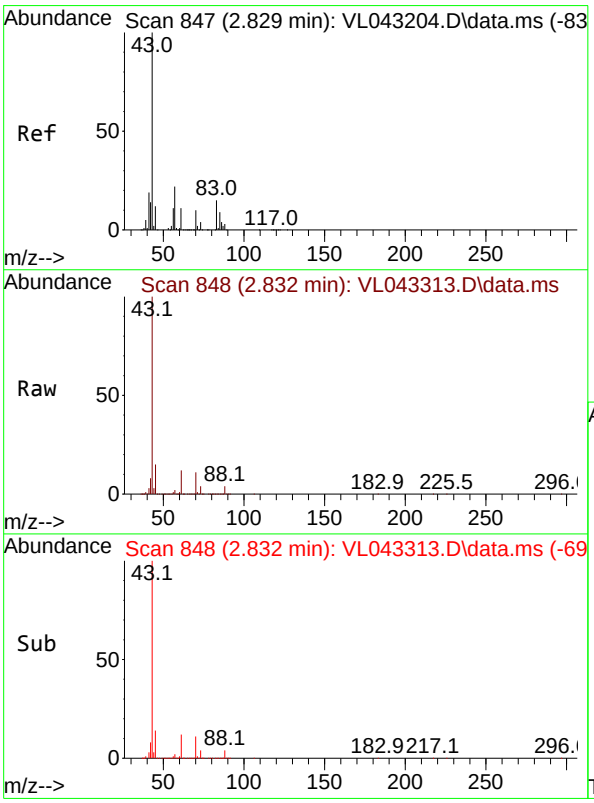
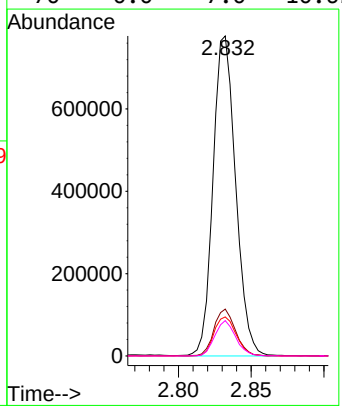
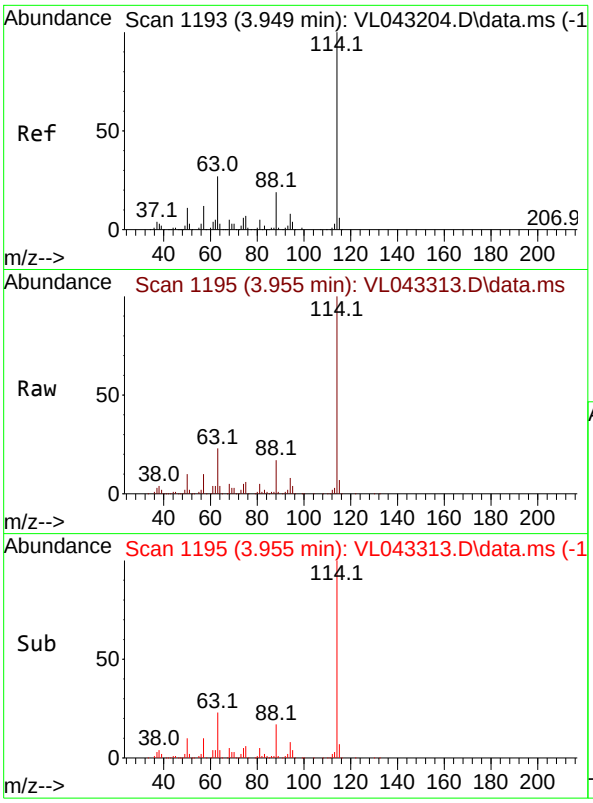


#25
Ethyl Acetate
Concen: 19.733 ppbv m
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 43 Resp: 841516

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.0	7.0	10.4#
70	0.0	7.0	10.6#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion:114 Resp: 36199

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.0	31.6
88	18.1	14.9	22.3

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

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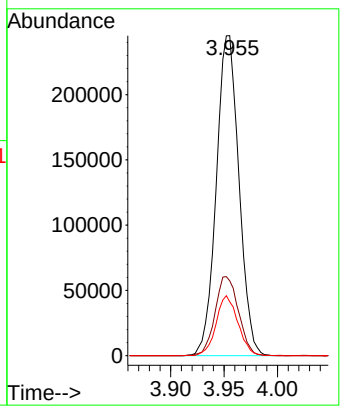
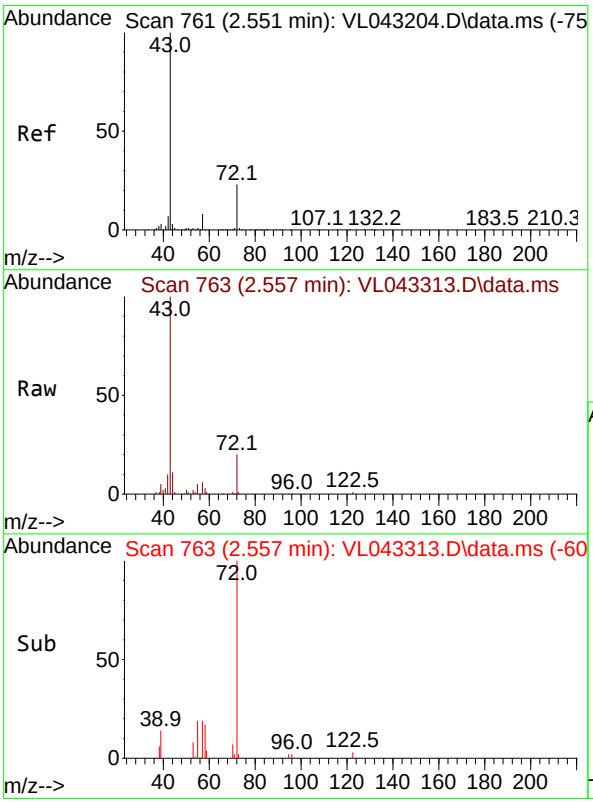
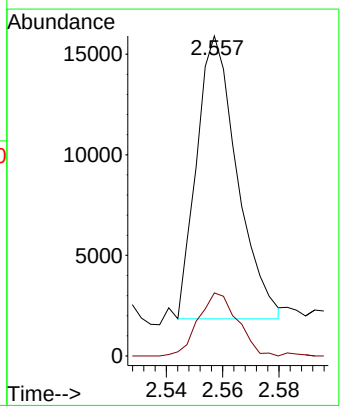


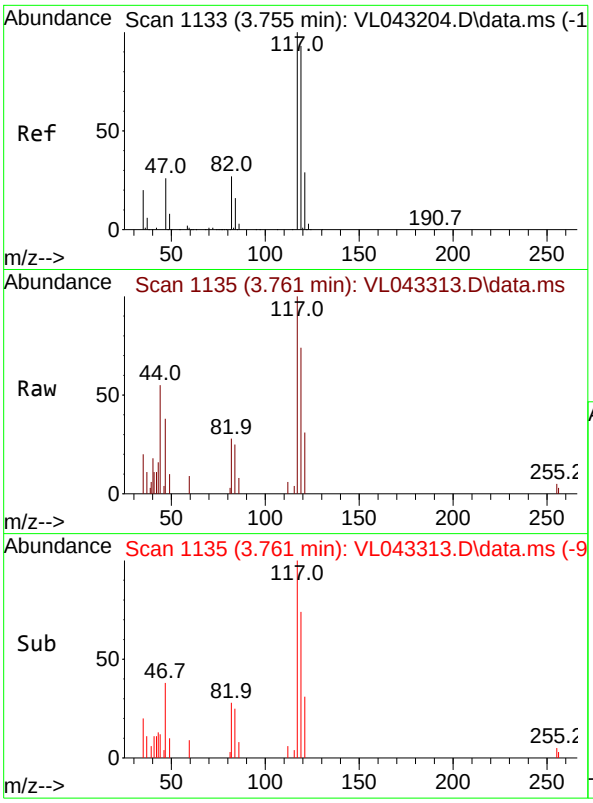


#34
2-Butanone
Concen: 0.548 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 43 Resp: 14010

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.1	27.1

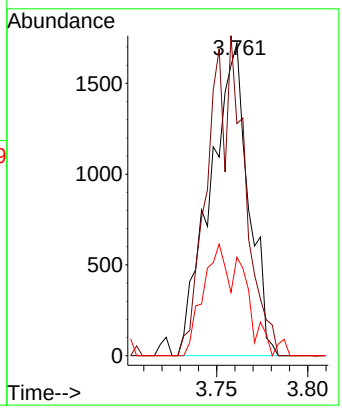




#35
Carbon Tetrachloride
Concen: 0.091 ppbv
RT: 3.761 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion:117 Resp: 251

Ion	Ratio	Lower	Upper
117	100		
119	74.3	74.6	112.0#
121	31.5	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

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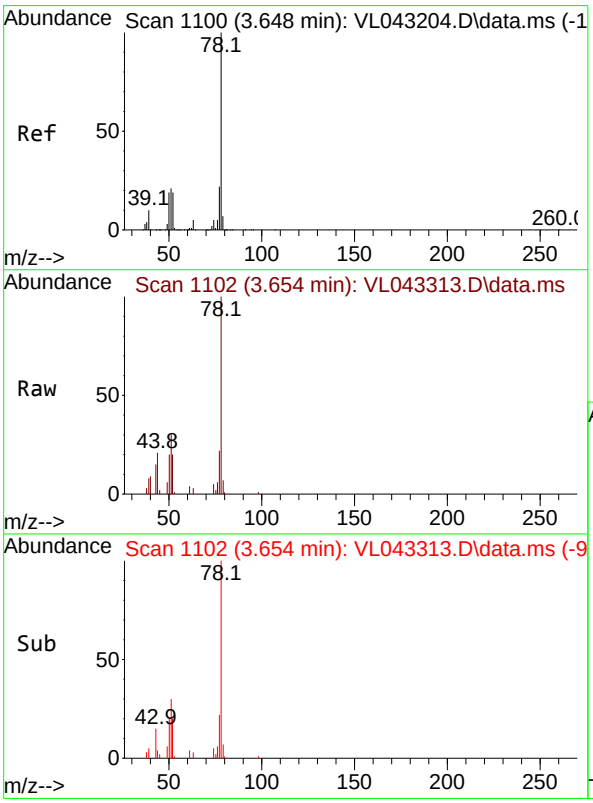
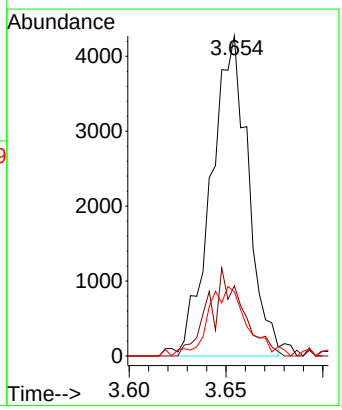
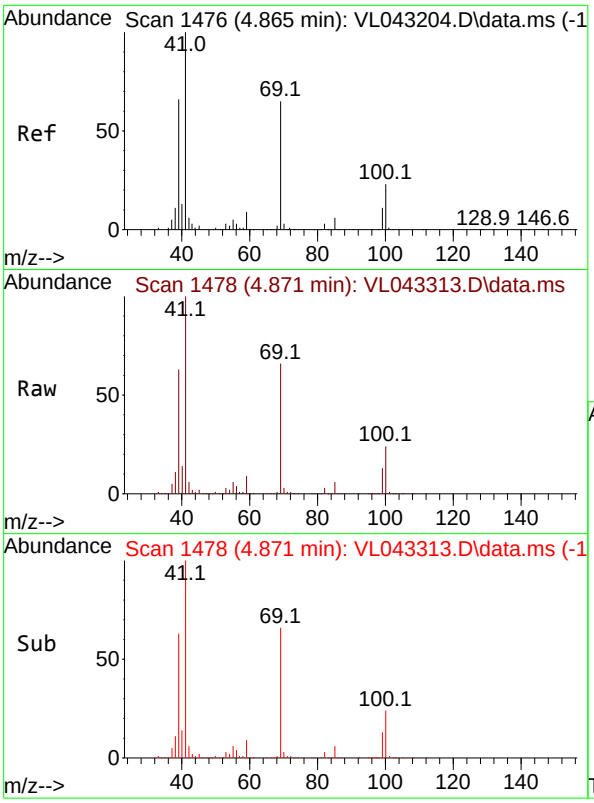


#36
Benzene
Concen: 0.163 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 78 Resp: 5665

Ion	Ratio	Lower	Upper
78	100		
77	22.2	17.5	26.3
50	18.3	15.5	23.3

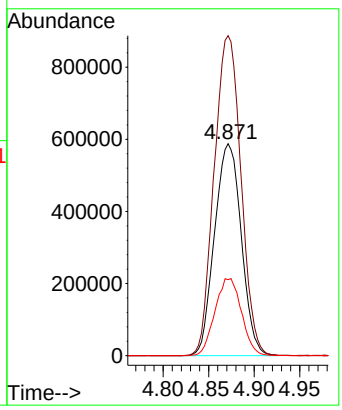




#43
Methyl Methacrylate
Concen: 65.204 ppbv
RT: 4.871 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 69 Resp: 119983

Ion	Ratio	Lower	Upper
69	100		
41	151.4	126.7	190.1
100	36.1	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

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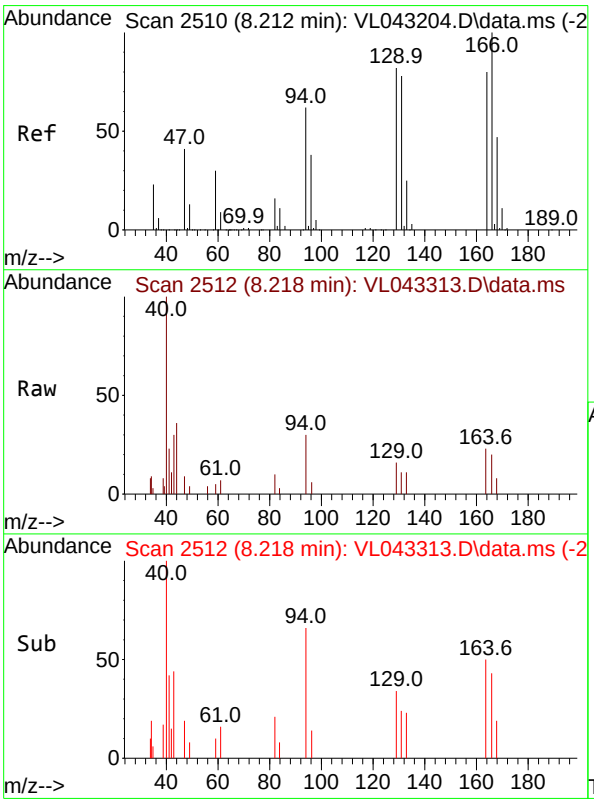
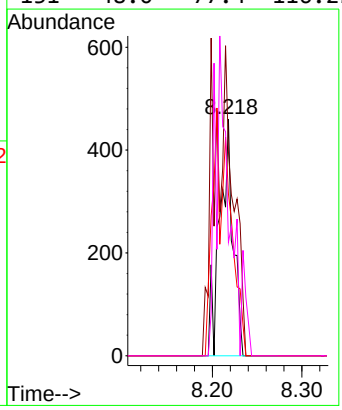
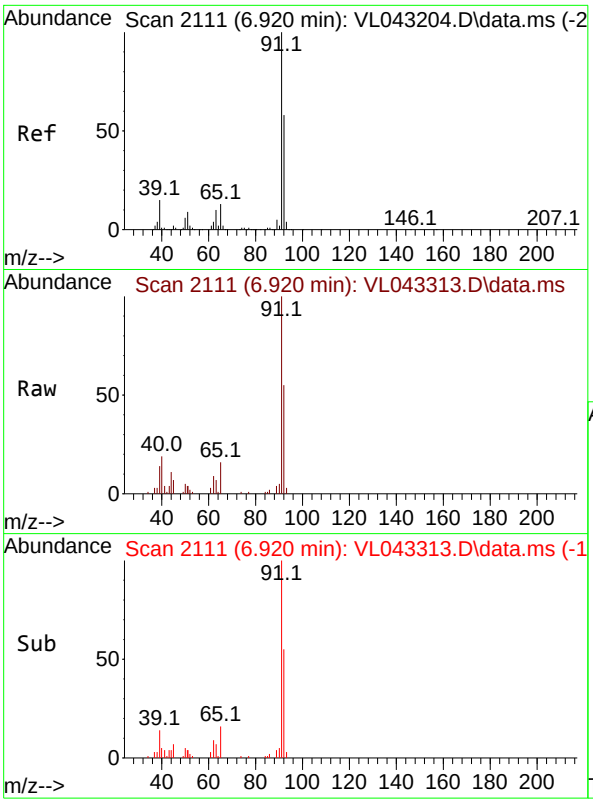


#52
Tetrachloroethene
Concen: 0.037 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion:164 Resp: 477

Ion	Ratio	Lower	Upper
164	100		
166	86.3	99.4	149.2#
129	68.5	81.8	122.8#
131	48.0	77.4	116.2#

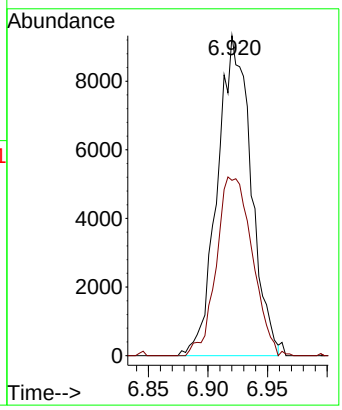




#53
Toluene
Concen: 0.447 ppbv
RT: 6.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 91 Resp: 1836

Ion	Ratio	Lower	Upper
91	100		
92	59.4	47.4	71.0



Instrument :
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ClientSampleId :
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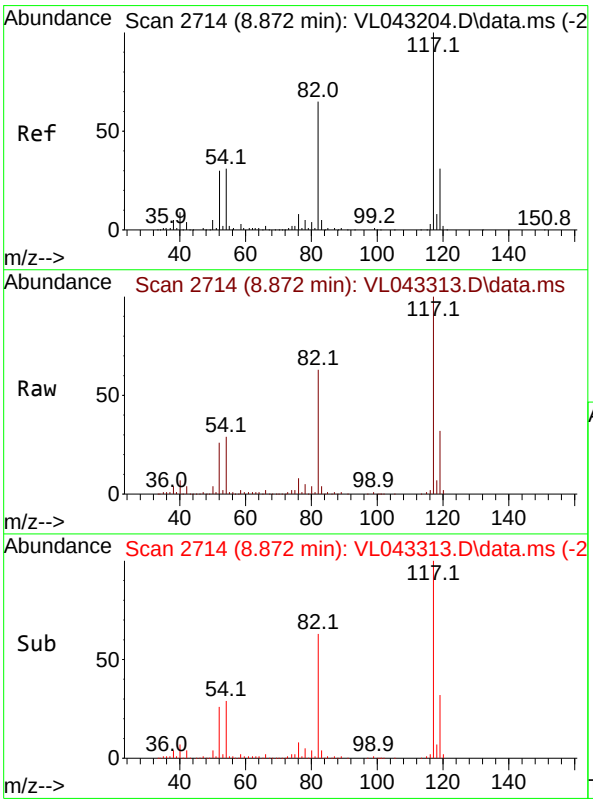
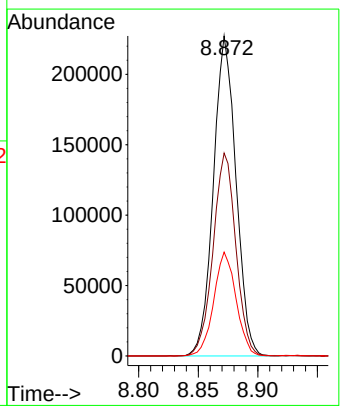
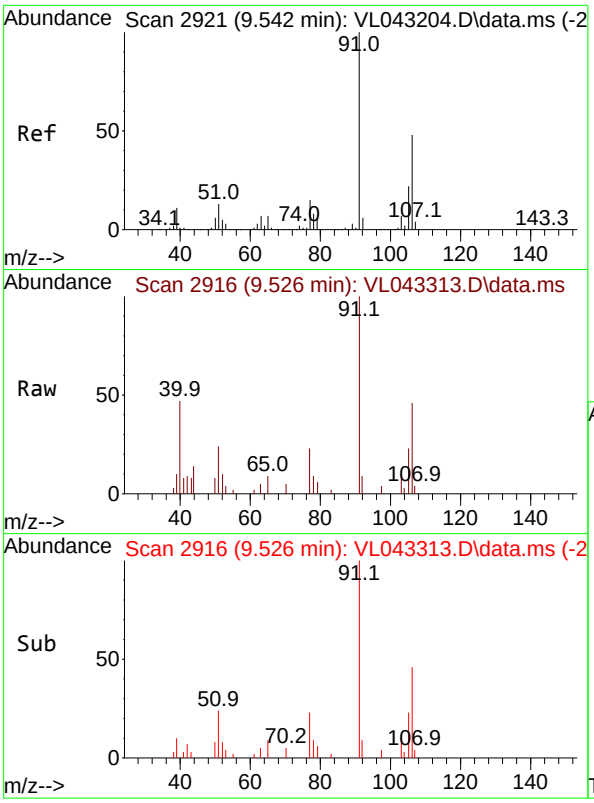


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion:117 Resp: 299956

Ion	Ratio	Lower	Upper
117	100		
82	63.9	56.1	84.1
119	32.3	25.0	37.6





#59
m/p-Xylene
Concen: 0.120 ppbv m
RT: 9.526 min Scan# 2
Delta R.T. -0.017 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 91 Resp: 554

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

Instrument :
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ClientSampleId :
10-IA-1

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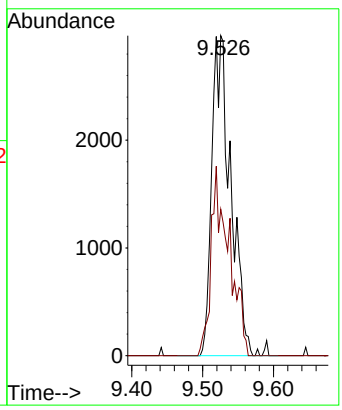
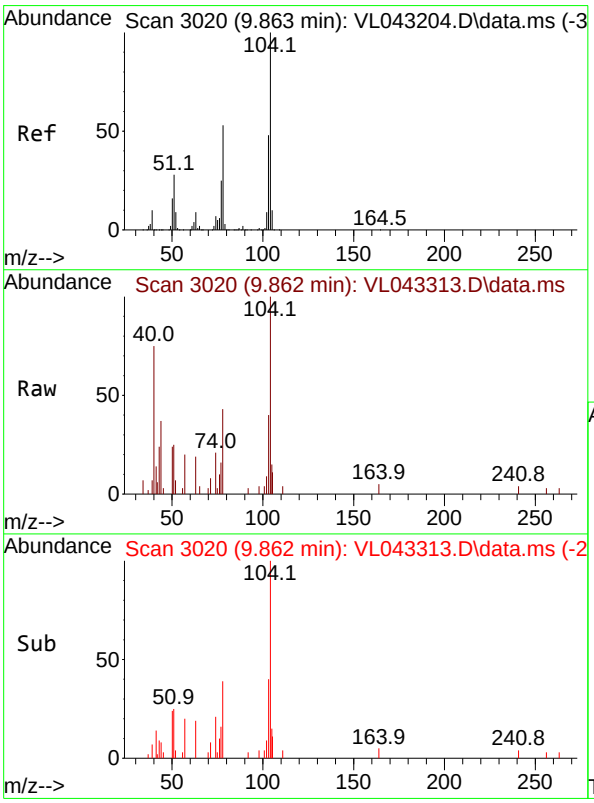
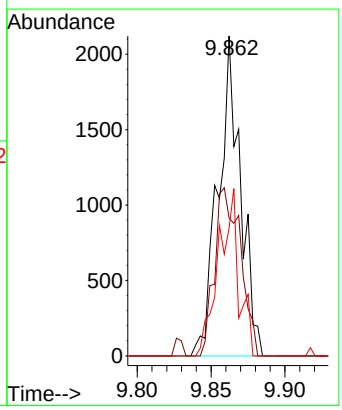


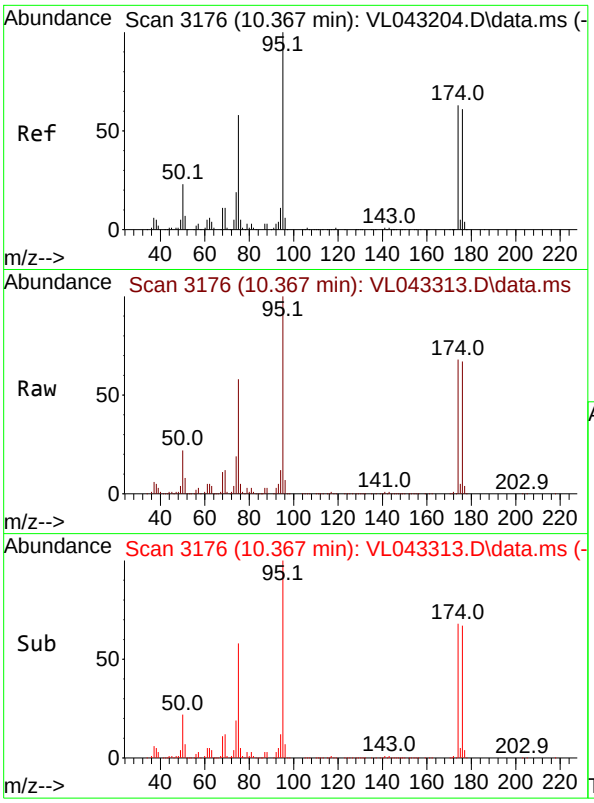


#61
Styrene
Concen: 0.110 ppbv m
RT: 9.862 min Scan# 3020
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion:104 Resp: 2236

Ion	Ratio	Lower	Upper
104	100		
78	0.0	42.1	63.1#
103	0.0	37.2	55.8#

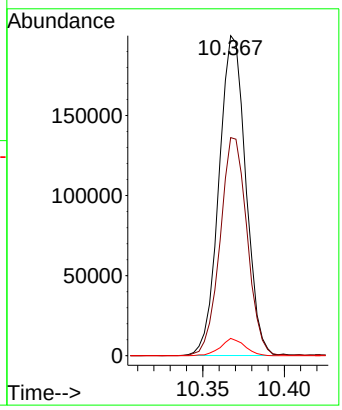




#68
1-Bromo-4-Fluorobenzene
Concen: 10.363 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 95 Resp: 22786

Ion	Ratio	Lower	Upper
95	100		
174	69.3	50.2	75.2
175	4.9	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

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Supervised By :Mahesh Dadoda 12/11/2025

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:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	10-IA-1DL	SDG No.:	Q3799
Lab Sample ID:	Q3799-03DL	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	12/08/25 20:50	VL120825
74-87-3	Chloromethane	0.98	2.02	UD	10	2.02	10.3	12/08/25 20:50	VL120825
75-01-4	Vinyl Chloride	0.25	0.64	UD	10	0.64	0.77	12/08/25 20:50	VL120825
74-83-9	Bromomethane	0.77	2.99	UD	10	2.99	19.4	12/08/25 20:50	VL120825
75-00-3	Chloroethane	1.50	3.96	UD	10	3.96	13.2	12/08/25 20:50	VL120825
109-99-9	Tetrahydrofuran	0.80	2.36	UD	10	2.36	14.8	12/08/25 20:50	VL120825
75-69-4	Trichlorofluoromethane	1.70	9.55	UD	10	9.55	28.1	12/08/25 20:50	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	10.7	UD	10	10.7	38.3	12/08/25 20:50	VL120825
76-14-2	Dichlorotetrafluoroethane	1.50	10.5	UD	10	10.5	35.0	12/08/25 20:50	VL120825
75-65-0	tert-Butyl alcohol	1.60	4.85	UD	10	4.85	15.2	12/08/25 20:50	VL120825
142-82-5	Heptane	1.70	6.97	UD	10	6.97	20.5	12/08/25 20:50	VL120825
75-35-4	1,1-Dichloroethene	1.50	5.95	UD	10	5.95	19.8	12/08/25 20:50	VL120825
67-64-1	Acetone	1500	3560	ED	10	4.28	11.9	12/08/25 20:50	VL120825
75-15-0	Carbon Disulfide	0.80	2.49	UD	10	2.49	15.6	12/08/25 20:50	VL120825
1634-04-4	Methyl tert-Butyl Ether	2.30	8.29	UD	10	8.29	18.0	12/08/25 20:50	VL120825
75-09-2	Methylene Chloride	14.5	50.4	D	10	7.99	17.4	12/08/25 20:50	VL120825
156-60-5	trans-1,2-Dichloroethene	1.20	4.76	UD	10	4.76	19.8	12/08/25 20:50	VL120825
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	10	5.26	20.2	12/08/25 20:50	VL120825
110-82-7	Cyclohexane	2.20	7.57	UD	10	7.57	17.2	12/08/25 20:50	VL120825
78-93-3	2-Butanone	0.56	1.65	UD	10	1.65	14.8	12/08/25 20:50	VL120825
56-23-5	Carbon Tetrachloride	0.25	1.57	UD	10	1.57	1.89	12/08/25 20:50	VL120825
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	10	3.93	19.8	12/08/25 20:50	VL120825
67-66-3	Chloroform	0.96	4.69	UD	10	4.69	24.4	12/08/25 20:50	VL120825
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	10	0.87	1.64	12/08/25 20:50	VL120825
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	10	6.54	23.4	12/08/25 20:50	VL120825
71-43-2	Benzene	0.79	2.52	UD	10	2.52	16.0	12/08/25 20:50	VL120825
107-06-2	1,2-Dichloroethane	0.93	3.76	UD	10	3.76	20.2	12/08/25 20:50	VL120825
79-01-6	Trichloroethene	0.24	1.29	UD	10	1.29	1.61	12/08/25 20:50	VL120825
78-87-5	1,2-Dichloropropane	1.30	6.01	UD	10	6.01	23.1	12/08/25 20:50	VL120825
75-27-4	Bromodichloromethane	0.63	4.22	UD	10	4.22	33.5	12/08/25 20:50	VL120825
108-10-1	4-Methyl-2-Pentanone	0.97	3.98	UD	10	3.98	20.5	12/08/25 20:50	VL120825
108-88-3	Toluene	1.60	6.03	UD	10	6.03	18.8	12/08/25 20:50	VL120825
10061-02-6	t-1,3-Dichloropropene	1.50	6.81	UD	10	6.81	22.7	12/08/25 20:50	VL120825
10061-01-5	cis-1,3-Dichloropropene	1.10	4.99	UD	10	4.99	22.7	12/08/25 20:50	VL120825
79-00-5	1,1,2-Trichloroethane	0.81	4.42	UD	10	4.42	27.3	12/08/25 20:50	VL120825
124-48-1	Dibromochloromethane	0.85	7.24	UD	10	7.24	42.6	12/08/25 20:50	VL120825
106-93-4	1,2-Dibromoethane	0.85	6.53	UD	10	6.53	7.69	12/08/25 20:50	VL120825
127-18-4	Tetrachloroethene	0.15	1.02	UD	10	1.02	2.03	12/08/25 20:50	VL120825
108-90-7	Chlorobenzene	0.77	3.55	UD	10	3.55	23.0	12/08/25 20:50	VL120825
100-41-4	Ethyl Benzene	1.90	8.25	UD	10	8.25	21.7	12/08/25 20:50	VL120825
179601-23-1	m/p-Xylene	4.10	17.8	UD	10	17.8	43.4	12/08/25 20:50	VL120825
95-47-6	o-Xylene	2.10	9.12	UD	10	9.12	21.7	12/08/25 20:50	VL120825
100-42-5	Styrene	1.60	6.81	UD	10	6.81	21.3	12/08/25 20:50	VL120825
75-25-2	Bromoform	0.48	4.96	UD	10	4.96	51.7	12/08/25 20:50	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	0.18	1.24	UD	10	1.24	2.06	12/08/25 20:50	VL120825
95-49-8	2-Chlorotoluene	1.70	8.80	UD	10	8.80	25.9	12/08/25 20:50	VL120825

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	10-IA-1DL	SDG No.:	Q3799
Lab Sample ID:	Q3799-03DL	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	12/08/25 20:50	VL120825
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	12/08/25 20:50	VL120825
541-73-1	1,3-Dichlorobenzene	0.54	3.25	UD	10	3.25	30.1	12/08/25 20:50	VL120825
106-46-7	1,4-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	12/08/25 20:50	VL120825
95-50-1	1,2-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	12/08/25 20:50	VL120825
120-82-1	1,2,4-Trichlorobenzene	2.10	15.6	UD	10	15.6	37.1	12/08/25 20:50	VL120825
87-68-3	Hexachloro-1,3-Butadiene	1.30	13.9	UD	10	13.9	53.3	12/08/25 20:50	VL120825
106-99-0	1,3-Butadiene	0.51	1.13	UD	10	1.13	11.1	12/08/25 20:50	VL120825
91-20-3	Naphthalene	0.13	0.68	UD	10	0.68	5.24	12/08/25 20:50	VL120825
622-96-8	4-Ethyltoluene	2.10	10.3	UD	10	10.3	24.6	12/08/25 20:50	VL120825
110-54-3	Hexane	1.60	5.64	UD	10	5.64	17.6	12/08/25 20:50	VL120825
107-05-1	Allyl Chloride	1.10	3.44	UD	10	3.44	15.7	12/08/25 20:50	VL120825
123-91-1	1,4-Dioxane	2.20	7.93	UD	10	7.93	18.0	12/08/25 20:50	VL120825
80-62-6	Methyl Methacrylate	57.4	235	D	10	5.73	20.5	12/08/25 20:50	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.70				70 (65) - 130 (135)	97% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	129000							
540-36-3	1,4-Difluorobenzene	324000							
3114-55-4	Chlorobenzene-d5	262000							

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\VL120825\
Data File : VL043322.D
Acq On : 08 Dec 2025 20:50
Operator : SY/MD
Sample : Q3799-03DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL

Quant Time: Dec 09 00:15:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

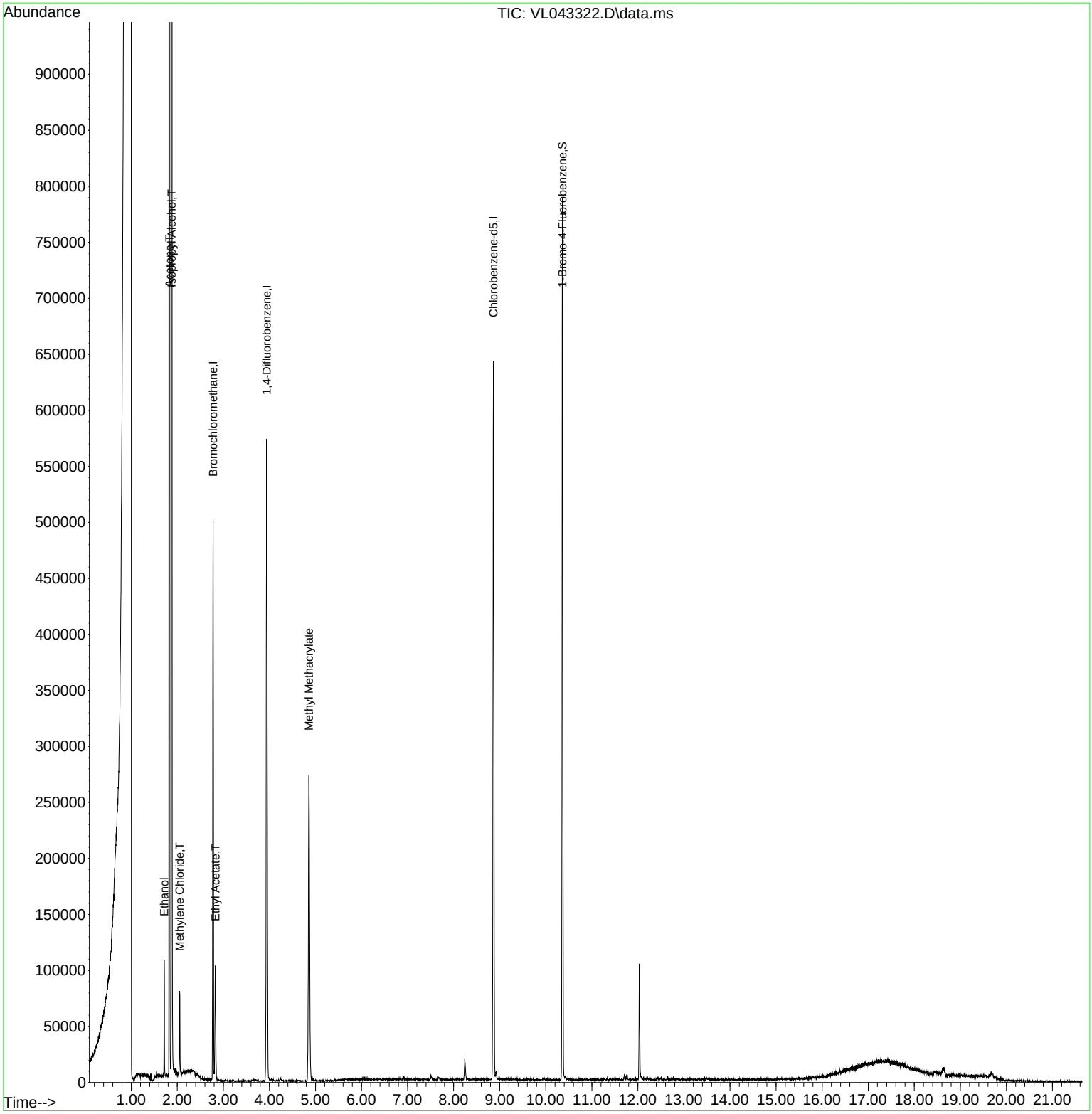
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.778	49	129360	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	324163	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.866	117	261825	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	186988	9.743	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.400%			
Target Compounds						Qvalue
13) Ethanol	1.716	45	34680	12.944	ppbv	100
15) Acetone	1.829	43	2615938	145.553	ppbv #	66
19) Isopropyl Alcohol	1.878	45	1280827	126.119	ppbv #	20
20) Methylene Chloride	2.056	84	11227	1.449	ppbv	86
25) Ethyl Acetate	2.829	43	67451	1.740	ppbv #	92
43) Methyl Methacrylate	4.859	69	94519	5.736	ppbv	96

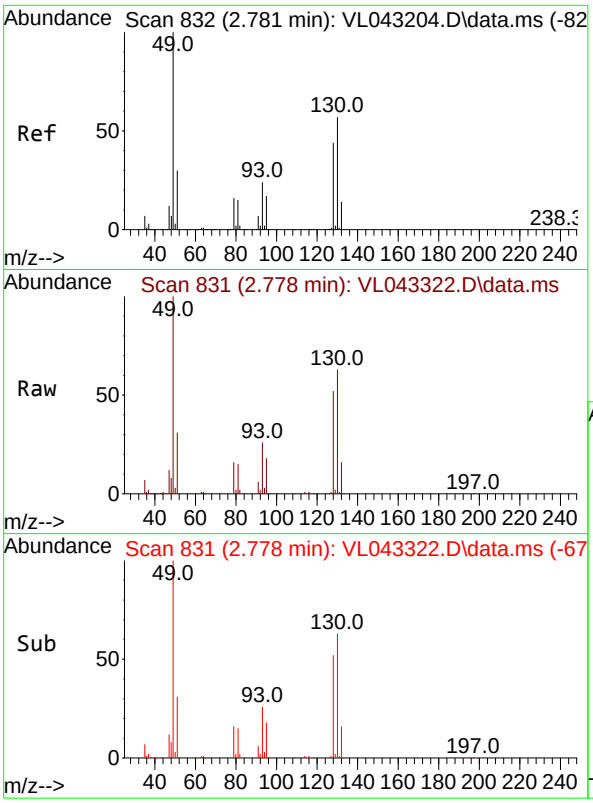
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043322.D
Acq On : 08 Dec 2025 20:50
Operator : SY/MD
Sample : Q3799-03DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL

Quant Time: Dec 09 00:15:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



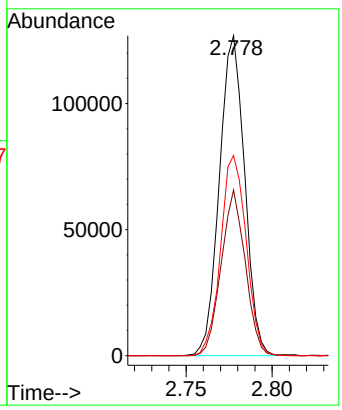


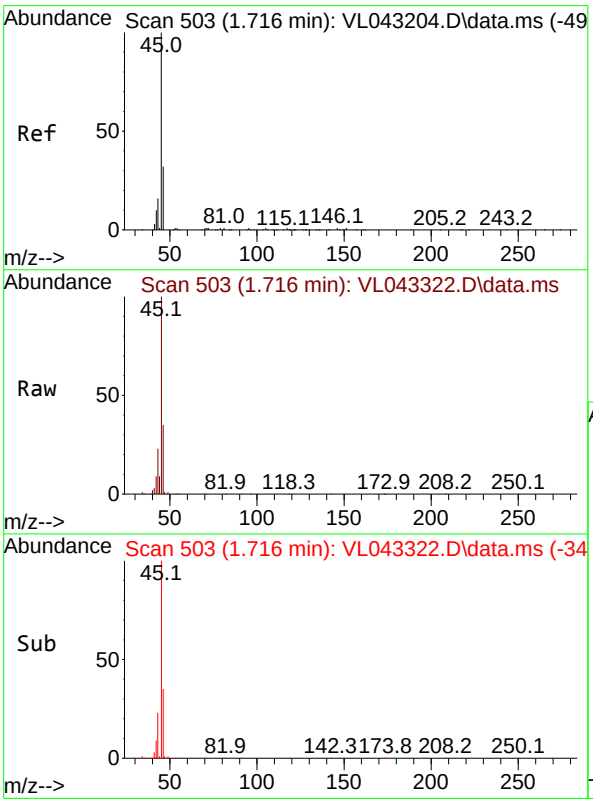
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.778 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL

Tgt Ion: 49 Resp: 129360

Ion	Ratio	Lower	Upper
49	100		
128	49.5	23.0	69.0
130	63.4	29.9	89.7

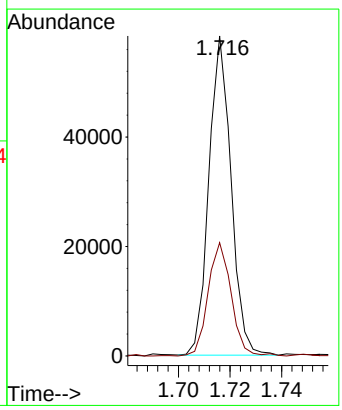


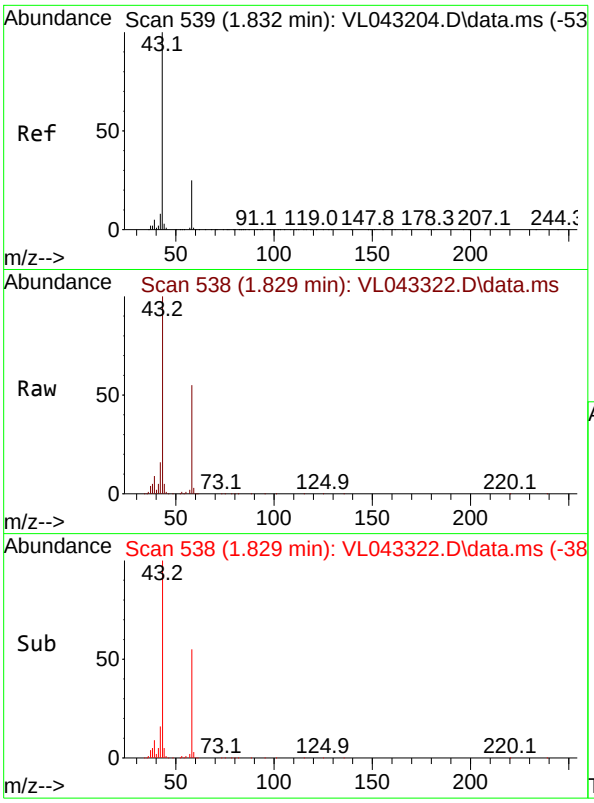


#13
Ethanol
Concen: 12.944 ppbv
RT: 1.716 min Scan# 503
Delta R.T. 0.000 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 45 Resp: 34680

Ion	Ratio	Lower	Upper
45	100		
46	37.5	15.0	59.8



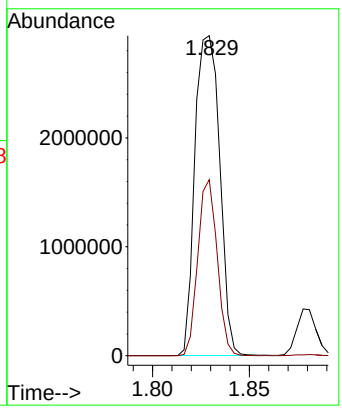


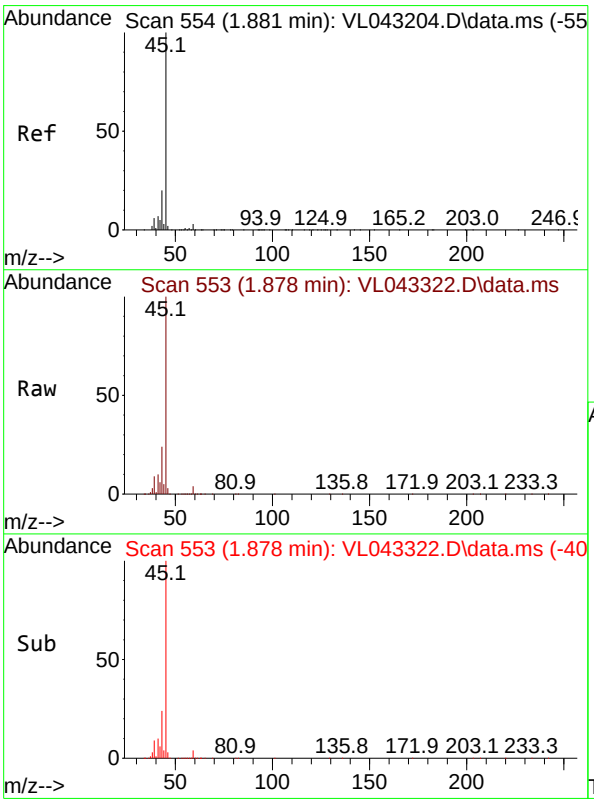
#15
Acetone
Concen: 145.553 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL

Tgt Ion: 43 Resp: 2615938

Ion	Ratio	Lower	Upper
43	100		
58	43.0	20.7	31.1#

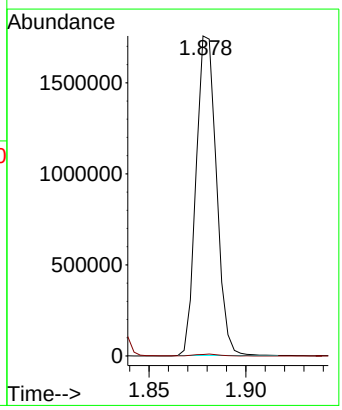


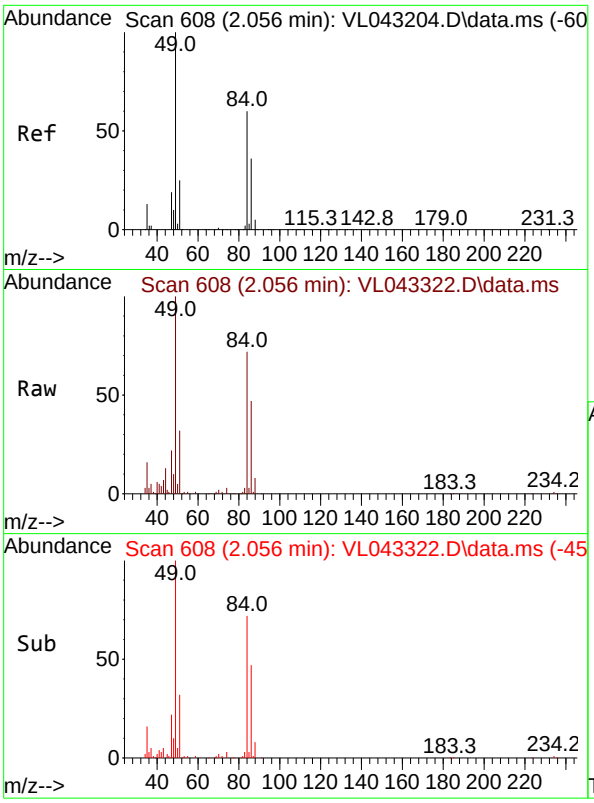


#19
Isopropyl Alcohol
Concen: 126.119 ppbv
RT: 1.878 min Scan# 553
Delta R.T. -0.003 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 45 Resp: 1280827

Ion	Ratio	Lower	Upper
45	100		
58	87.9	31.3	46.9#



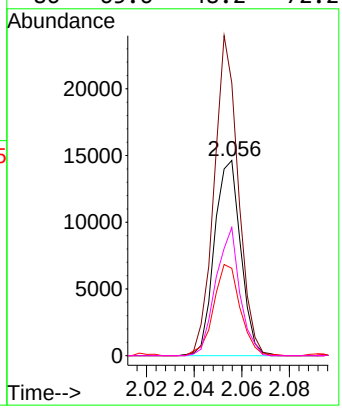


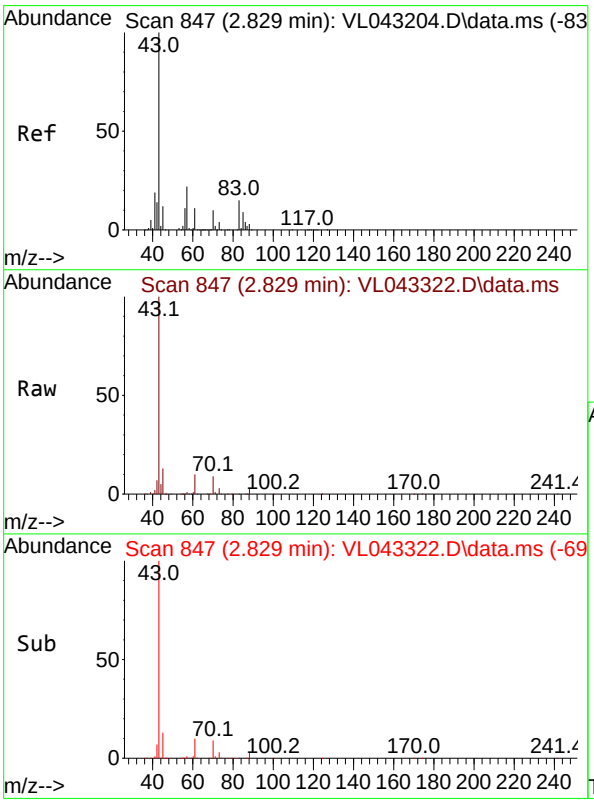
#20
Methylene Chloride
Concen: 1.449 ppbv
RT: 2.056 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL

Tgt Ion: 84 Resp: 11227

Ion	Ratio	Lower	Upper
84	100		
49	139.7	132.9	199.3
51	44.7	34.8	52.2
86	65.6	48.2	72.2

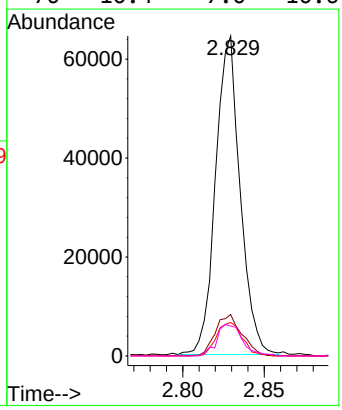


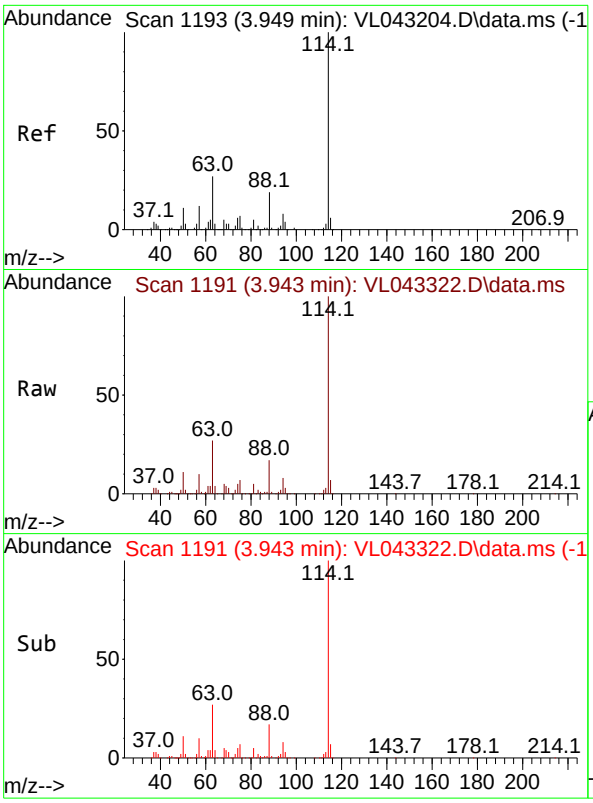


#25
Ethyl Acetate
Concen: 1.740 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 43 Resp: 67451

Ion	Ratio	Lower	Upper
43	100		
45	14.3	8.1	12.1#
61	11.1	7.0	10.4#
70	10.4	7.0	10.6



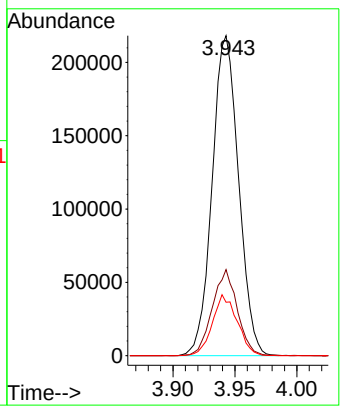


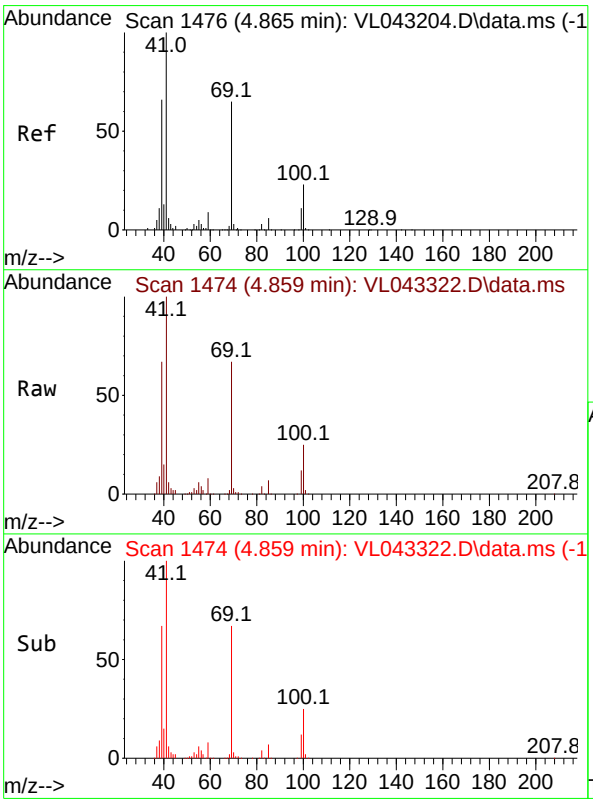
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL

Tgt Ion:114 Resp: 324163

Ion	Ratio	Lower	Upper
114	100		
63	25.5	21.0	31.6
88	17.9	14.9	22.3

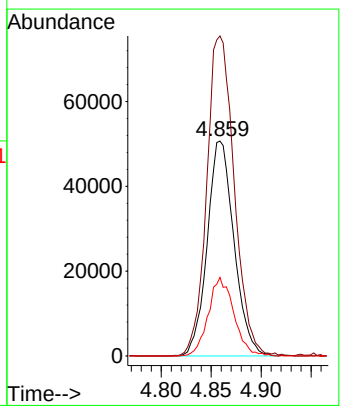


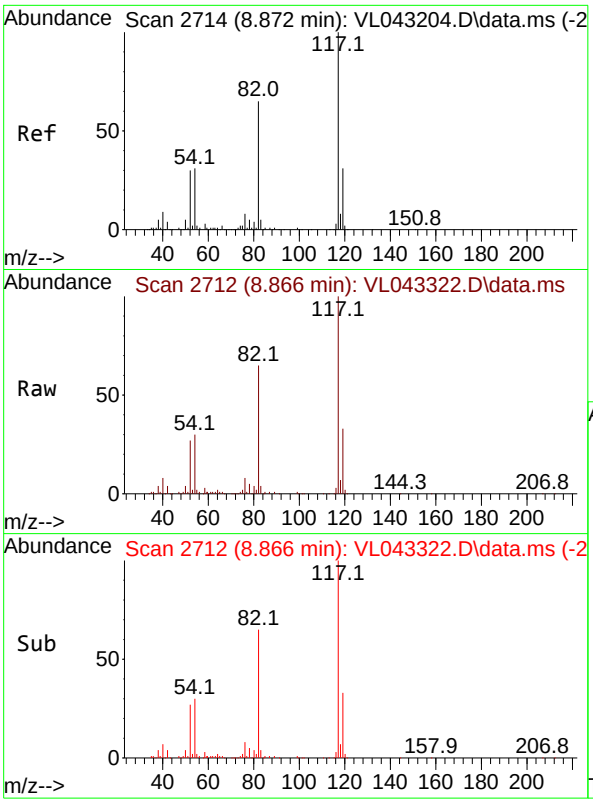


#43
Methyl Methacrylate
Concen: 5.736 ppbv
RT: 4.859 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 69 Resp: 94519

Ion	Ratio	Lower	Upper
69	100		
41	152.9	126.7	190.1
100	34.9	28.6	43.0



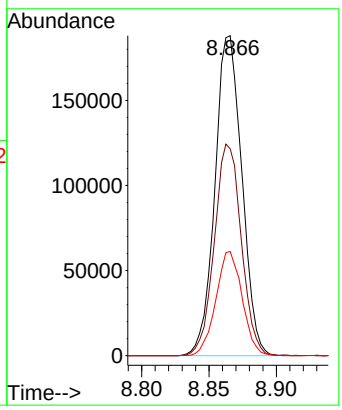


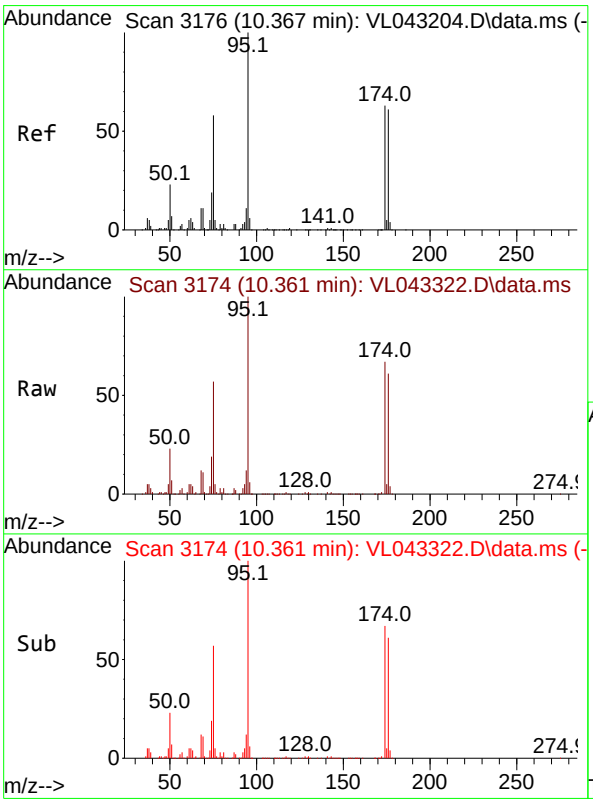
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.866 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL

Tgt Ion:117 Resp: 261825

Ion	Ratio	Lower	Upper
117	100		
82	66.1	56.1	84.1
119	31.8	25.0	37.6

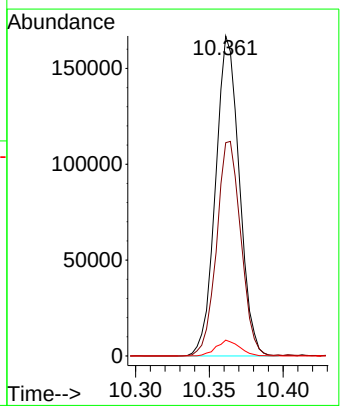




#68
1-Bromo-4-Fluorobenzene
Concen: 9.743 ppbv
RT: 10.361 min Scan# 3174
Delta R.T. -0.006 min
Lab File: VL043322.D
Acq: 08 Dec 2025 20:50

Tgt Ion: 95 Resp: 186988

Ion	Ratio	Lower	Upper
95	100		
174	69.2	50.2	75.2
175	4.9	4.1	6.1



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:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	10-IA-1DL2	SDG No.:	Q3799
Lab Sample ID:	Q3799-03DL2	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	44.0	218	UD	400	218	989	12/09/25 07:30	VL120825
74-87-3	Chloromethane	39.2	81.0	UD	400	81.0	413	12/09/25 07:30	VL120825
75-01-4	Vinyl Chloride	10.0	25.6	UD	400	25.6	30.7	12/09/25 07:30	VL120825
74-83-9	Bromomethane	30.8	120	UD	400	120	777	12/09/25 07:30	VL120825
75-00-3	Chloroethane	60.0	158	UD	400	158	528	12/09/25 07:30	VL120825
109-99-9	Tetrahydrofuran	32.0	94.4	UD	400	94.4	590	12/09/25 07:30	VL120825
75-69-4	Trichlorofluoromethane	68.0	382	UD	400	382	1120	12/09/25 07:30	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	56.0	429	UD	400	429	1530	12/09/25 07:30	VL120825
76-14-2	Dichlorotetrafluoroethane	60.0	419	UD	400	419	1400	12/09/25 07:30	VL120825
75-65-0	tert-Butyl alcohol	64.0	194	UD	400	194	606	12/09/25 07:30	VL120825
142-82-5	Heptane	68.0	279	UD	400	279	820	12/09/25 07:30	VL120825
75-35-4	1,1-Dichloroethene	60.0	238	UD	400	238	793	12/09/25 07:30	VL120825
67-64-1	Acetone	3000	7130	D	400	171	475	12/09/25 07:30	VL120825
75-15-0	Carbon Disulfide	32.0	99.7	UD	400	99.7	623	12/09/25 07:30	VL120825
1634-04-4	Methyl tert-Butyl Ether	92.0	332	UD	400	332	721	12/09/25 07:30	VL120825
75-09-2	Methylene Chloride	92.0	320	UD	400	320	695	12/09/25 07:30	VL120825
156-60-5	trans-1,2-Dichloroethene	48.0	190	UD	400	190	793	12/09/25 07:30	VL120825
75-34-3	1,1-Dichloroethane	52.0	210	UD	400	210	809	12/09/25 07:30	VL120825
110-82-7	Cyclohexane	88.0	303	UD	400	303	688	12/09/25 07:30	VL120825
78-93-3	2-Butanone	22.4	66.1	UD	400	66.1	590	12/09/25 07:30	VL120825
56-23-5	Carbon Tetrachloride	10.0	62.9	UD	400	62.9	75.5	12/09/25 07:30	VL120825
156-59-2	cis-1,2-Dichloroethene	39.6	157	UD	400	157	793	12/09/25 07:30	VL120825
67-66-3	Chloroform	38.4	188	UD	400	188	977	12/09/25 07:30	VL120825
71-55-6	1,1,1-Trichloroethane	6.40	34.9	UD	400	34.9	65.5	12/09/25 07:30	VL120825
540-84-1	2,2,4-Trimethylpentane	56.0	262	UD	400	262	934	12/09/25 07:30	VL120825
71-43-2	Benzene	31.6	101	UD	400	101	639	12/09/25 07:30	VL120825
107-06-2	1,2-Dichloroethane	37.2	151	UD	400	151	809	12/09/25 07:30	VL120825
79-01-6	Trichloroethene	9.60	51.6	UD	400	51.6	64.5	12/09/25 07:30	VL120825
78-87-5	1,2-Dichloropropane	52.0	240	UD	400	240	924	12/09/25 07:30	VL120825
75-27-4	Bromodichloromethane	25.2	169	UD	400	169	1340	12/09/25 07:30	VL120825
108-10-1	4-Methyl-2-Pentanone	38.8	159	UD	400	159	820	12/09/25 07:30	VL120825
108-88-3	Toluene	64.0	241	UD	400	241	754	12/09/25 07:30	VL120825
10061-02-6	t-1,3-Dichloropropene	60.0	272	UD	400	272	908	12/09/25 07:30	VL120825
10061-01-5	cis-1,3-Dichloropropene	44.0	200	UD	400	200	908	12/09/25 07:30	VL120825
79-00-5	1,1,2-Trichloroethane	32.4	177	UD	400	177	1090	12/09/25 07:30	VL120825
124-48-1	Dibromochloromethane	34.0	290	UD	400	290	1700	12/09/25 07:30	VL120825
106-93-4	1,2-Dibromoethane	34.0	261	UD	400	261	307	12/09/25 07:30	VL120825
127-18-4	Tetrachloroethene	6.00	40.7	UD	400	40.7	81.4	12/09/25 07:30	VL120825
108-90-7	Chlorobenzene	30.8	142	UD	400	142	921	12/09/25 07:30	VL120825
100-41-4	Ethyl Benzene	76.0	330	UD	400	330	869	12/09/25 07:30	VL120825
179601-23-1	m/p-Xylene	160	695	UD	400	695	1740	12/09/25 07:30	VL120825
95-47-6	o-Xylene	84.0	365	UD	400	365	869	12/09/25 07:30	VL120825
100-42-5	Styrene	64.0	272	UD	400	272	852	12/09/25 07:30	VL120825
75-25-2	Bromoform	19.2	199	UD	400	199	2070	12/09/25 07:30	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	7.20	49.4	UD	400	49.4	82.4	12/09/25 07:30	VL120825
95-49-8	2-Chlorotoluene	68.0	352	UD	400	352	1040	12/09/25 07:30	VL120825

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	RTP Environmental	Date Collected:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	10-IA-1DL2	SDG No.:	Q3799
Lab Sample ID:	Q3799-03DL2	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	72.0	354	UD	400	354	983	12/09/25 07:30	VL120825
95-63-6	1,2,4-Trimethylbenzene	72.0	354	UD	400	354	983	12/09/25 07:30	VL120825
541-73-1	1,3-Dichlorobenzene	21.6	130	UD	400	130	1200	12/09/25 07:30	VL120825
106-46-7	1,4-Dichlorobenzene	52.0	313	UD	400	313	1200	12/09/25 07:30	VL120825
95-50-1	1,2-Dichlorobenzene	52.0	313	UD	400	313	1200	12/09/25 07:30	VL120825
120-82-1	1,2,4-Trichlorobenzene	84.0	624	UD	400	624	1480	12/09/25 07:30	VL120825
87-68-3	Hexachloro-1,3-Butadiene	52.0	555	UD	400	555	2130	12/09/25 07:30	VL120825
106-99-0	1,3-Butadiene	20.4	45.1	UD	400	45.1	442	12/09/25 07:30	VL120825
91-20-3	Naphthalene	5.20	27.3	UD	400	27.3	210	12/09/25 07:30	VL120825
622-96-8	4-Ethyltoluene	84.0	413	UD	400	413	983	12/09/25 07:30	VL120825
110-54-3	Hexane	64.0	226	UD	400	226	705	12/09/25 07:30	VL120825
107-05-1	Allyl Chloride	44.0	138	UD	400	138	626	12/09/25 07:30	VL120825
123-91-1	1,4-Dioxane	88.0	317	UD	400	317	721	12/09/25 07:30	VL120825
80-62-6	Methyl Methacrylate	56.0	229	UD	400	229	819	12/09/25 07:30	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.50				70 (65) - 130 (135)	95% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	122000							
540-36-3	1,4-Difluorobenzene	307000							
3114-55-4	Chlorobenzene-d5	246000							

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\VL120825\
Data File : VL043331.D
Acq On : 09 Dec 2025 07:30
Operator : SY/MD
Sample : Q3799-03DL2 400X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 10 02:12:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.780	49	122404	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	307022	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	245820	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	171652	9.526	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.300%			
Target Compounds						Qvalue
13) Ethanol	1.719	45	876m	0.346	ppbv	
15) Acetone	1.832	43	127495	7.497	ppbv	100
19) Isopropyl Alcohol	1.884	45	32181	3.349	ppbv #	1

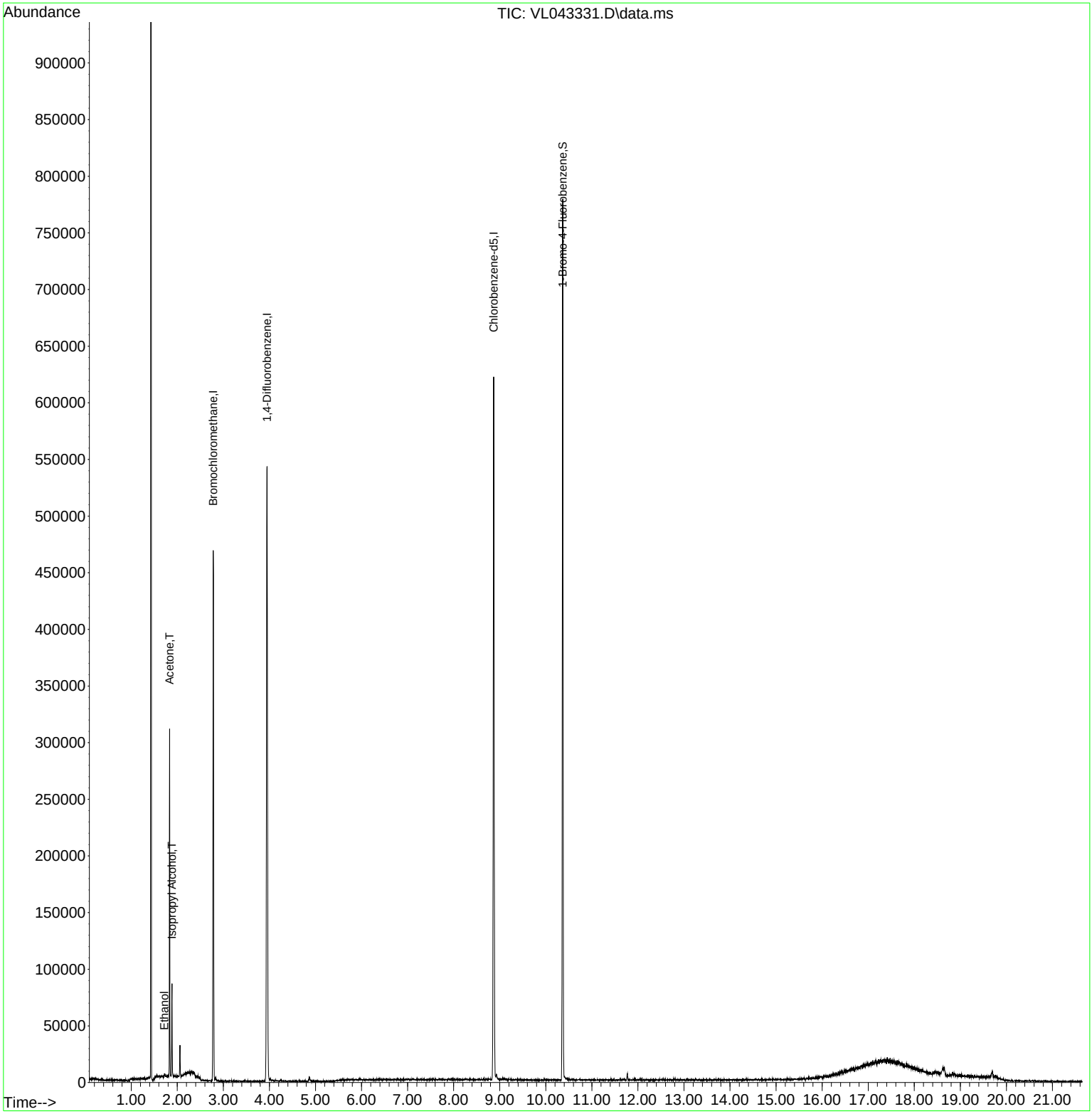
(#) = qualifier out of range (m) = manual integration (+) = signals summed

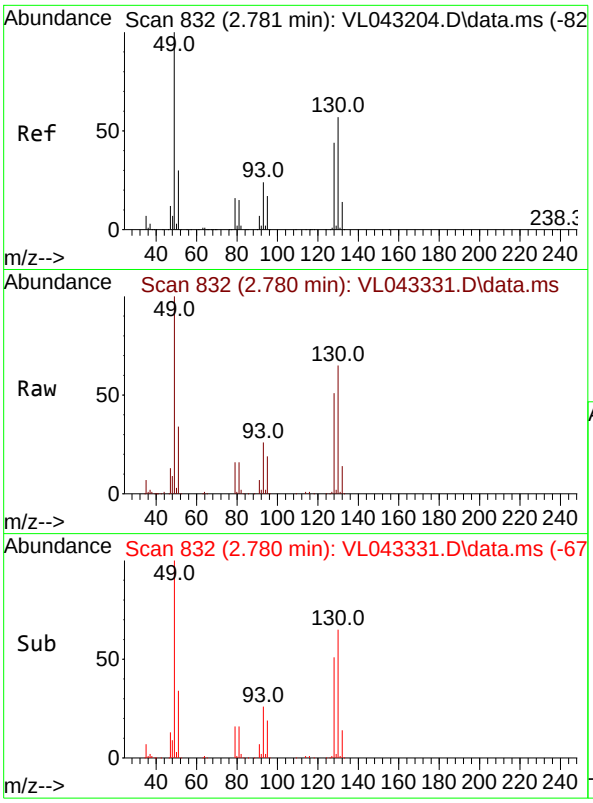
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043331.D
Acq On : 09 Dec 2025 07:30
Operator : SY/MD
Sample : Q3799-03DL2 400X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 10 02:12:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

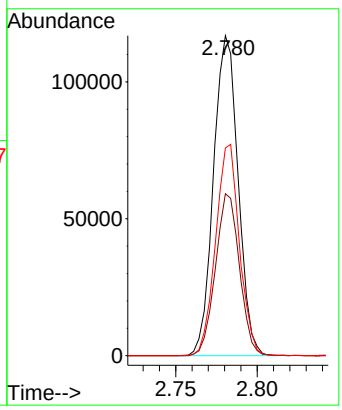




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Tgt Ion: 49 Resp: 12240

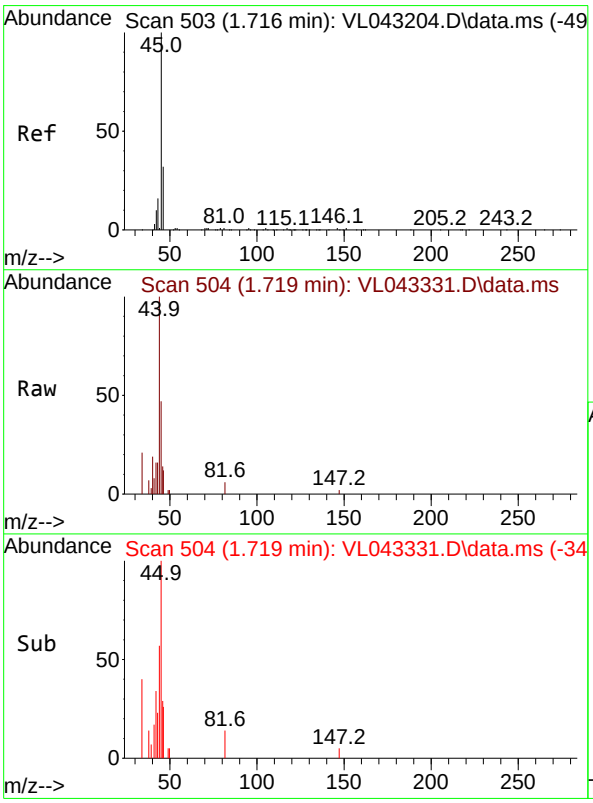
Ion	Ratio	Lower	Upper
49	100		
128	49.5	23.0	69.0
130	64.0	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Manual Integrations
APPROVED

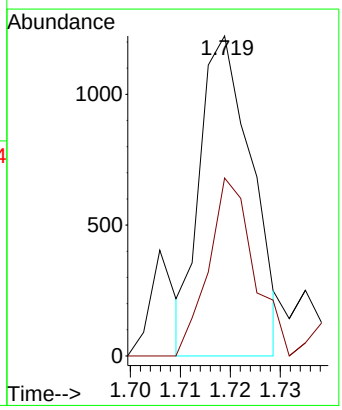
Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

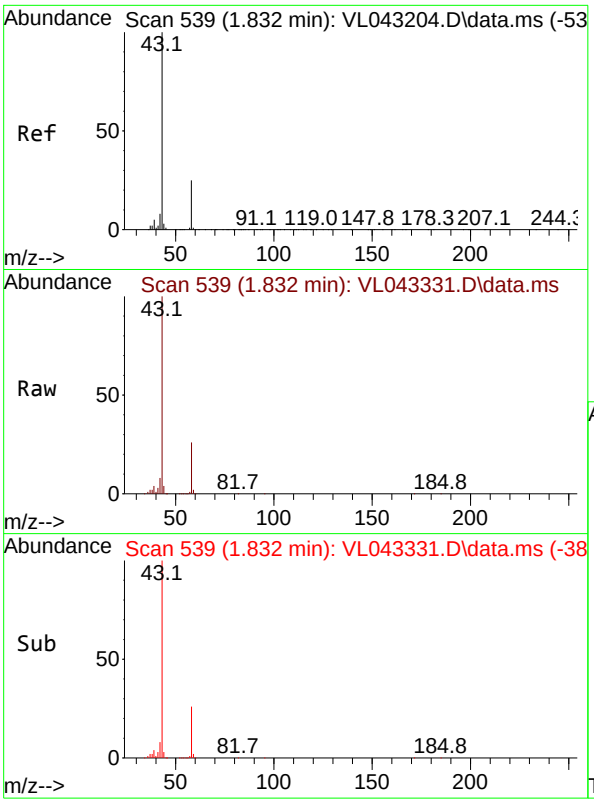


#13
Ethanol
Concen: 0.346 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Tgt Ion: 45 Resp: 876

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.0	59.8#

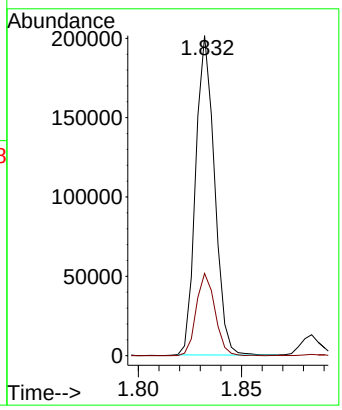




#15
Acetone
Concen: 7.497 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Tgt Ion: 43 Resp: 12749

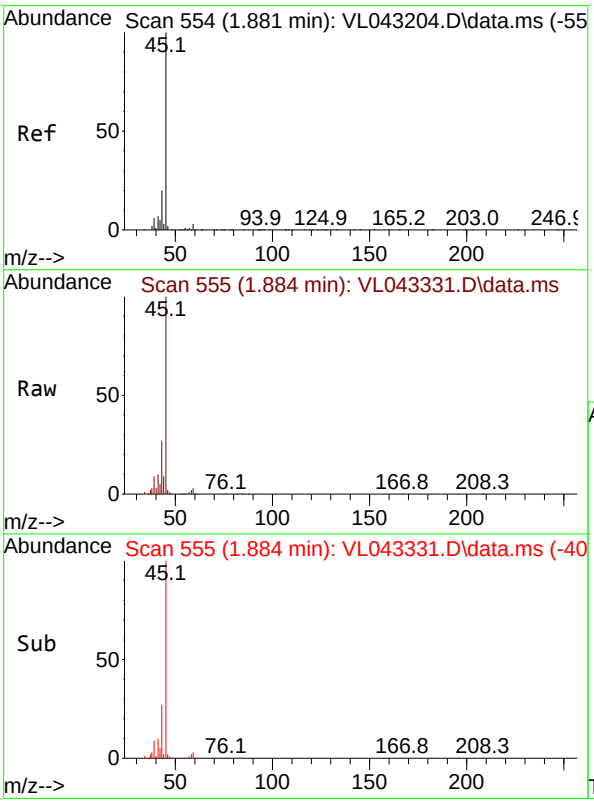
Ion	Ratio	Lower	Upper
43	100		
58	25.7	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Manual Integrations
APPROVED

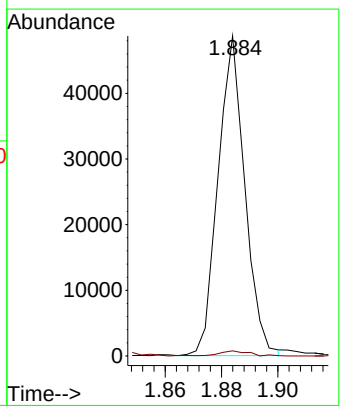
Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

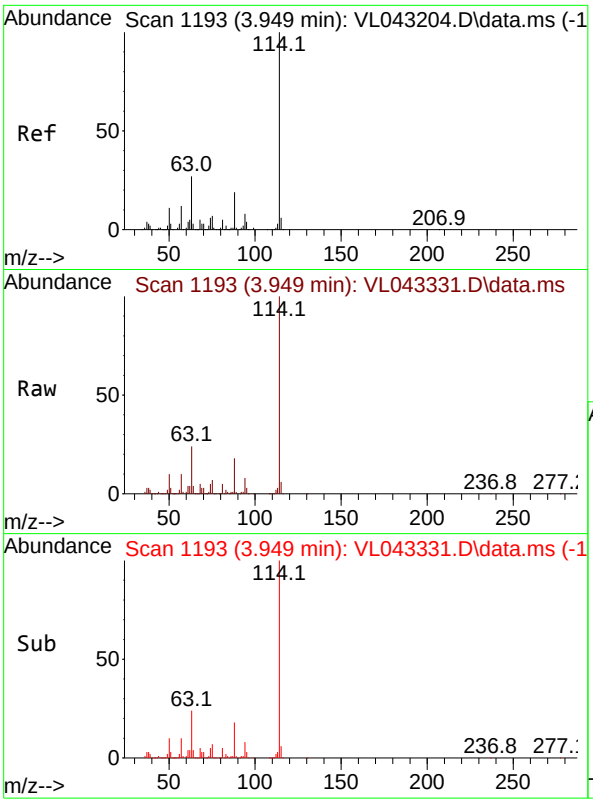


#19
Isopropyl Alcohol
Concen: 3.349 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Tgt Ion: 45 Resp: 32181

Ion	Ratio	Lower	Upper
45	100		
58	101.7	31.3	46.9#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

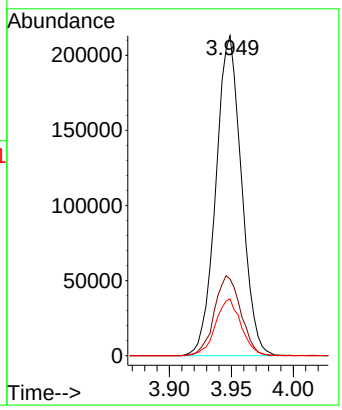
Tgt Ion:114 Resp: 30702

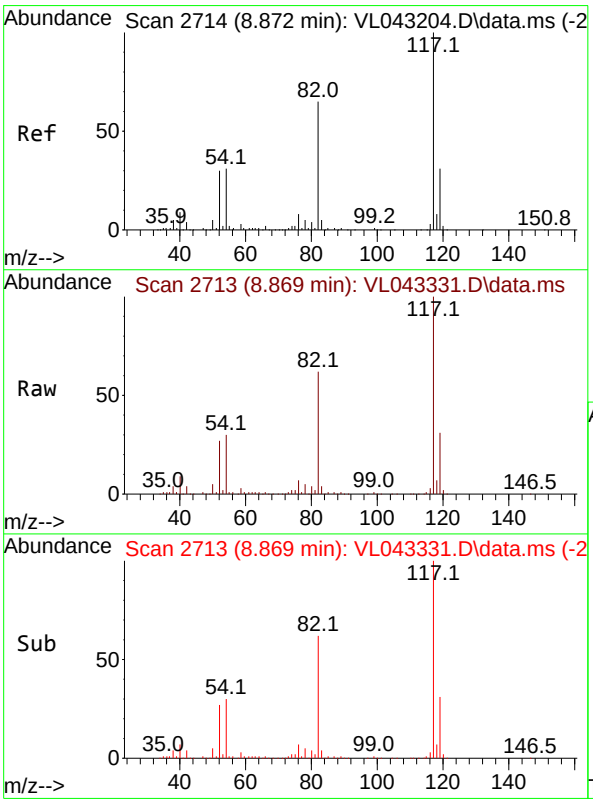
Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	17.7	14.9	22.3

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

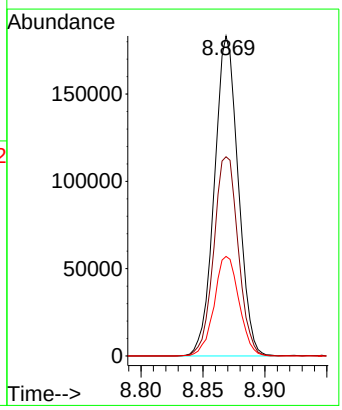


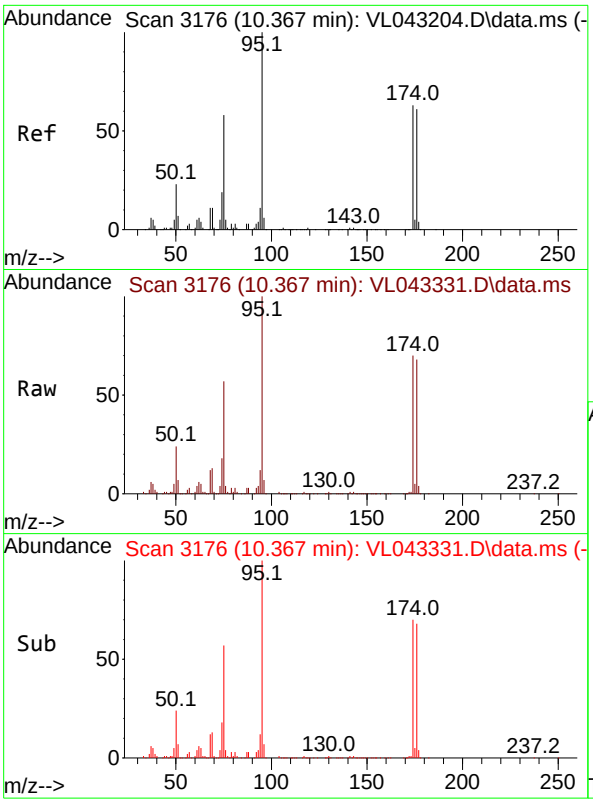


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.004 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Tgt Ion:117 Resp: 245820

Ion	Ratio	Lower	Upper
117	100		
82	63.9	56.1	84.1
119	32.4	25.0	37.6

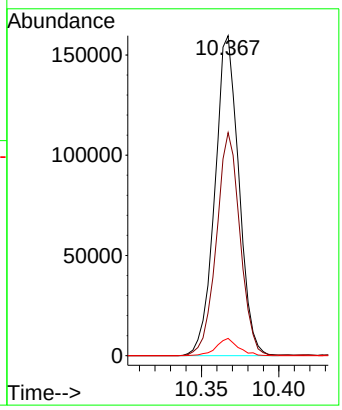




#68
1-Bromo-4-Fluorobenzene
Concen: 9.526 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Tgt Ion: 95 Resp: 17165

Ion	Ratio	Lower	Upper
95	100		
174	69.1	50.2	75.2
175	5.0	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/11/2025
Supervised By :Mahesh Dadoda 12/11/2025

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:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	11-IA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-04	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	0.40	1.98	J	1	0.54	2.47	12/08/25 15:37	VL120825
74-87-3	Chloromethane	0.50	1.03		1	0.21	1.03	12/08/25 15:37	VL120825
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	12/08/25 15:37	VL120825
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	12/08/25 15:37	VL120825
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	12/08/25 15:37	VL120825
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	12/08/25 15:37	VL120825
75-69-4	Trichlorofluoromethane	0.23	1.29	J	1	0.96	2.81	12/08/25 15:37	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	12/08/25 15:37	VL120825
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	12/08/25 15:37	VL120825
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	12/08/25 15:37	VL120825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	12/08/25 15:37	VL120825
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	12/08/25 15:37	VL120825
67-64-1	Acetone	8.00	19.0		1	0.43	1.19	12/08/25 15:37	VL120825
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	12/08/25 15:37	VL120825
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	12/08/25 15:37	VL120825
75-09-2	Methylene Chloride	0.40	1.39	J	1	0.80	1.74	12/08/25 15:37	VL120825
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	12/08/25 15:37	VL120825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	12/08/25 15:37	VL120825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	12/08/25 15:37	VL120825
78-93-3	2-Butanone	0.35	1.03	J	1	0.18	1.47	12/08/25 15:37	VL120825
56-23-5	Carbon Tetrachloride	0.090	0.57		1	0.19	0.19	12/08/25 15:37	VL120825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	12/08/25 15:37	VL120825
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	12/08/25 15:37	VL120825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	12/08/25 15:37	VL120825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	12/08/25 15:37	VL120825
71-43-2	Benzene	0.15	0.48	J	1	0.26	1.60	12/08/25 15:37	VL120825
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	12/08/25 15:37	VL120825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	12/08/25 15:37	VL120825
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	12/08/25 15:37	VL120825
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	12/08/25 15:37	VL120825
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	12/08/25 15:37	VL120825
108-88-3	Toluene	0.26	0.98	J	1	0.60	1.88	12/08/25 15:37	VL120825
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	12/08/25 15:37	VL120825
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	12/08/25 15:37	VL120825
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	12/08/25 15:37	VL120825
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	12/08/25 15:37	VL120825
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	12/08/25 15:37	VL120825
127-18-4	Tetrachloroethene	0.090	0.61		1	0.14	0.20	12/08/25 15:37	VL120825
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	12/08/25 15:37	VL120825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	12/08/25 15:37	VL120825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	12/08/25 15:37	VL120825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	12/08/25 15:37	VL120825
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	12/08/25 15:37	VL120825
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	12/08/25 15:37	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	12/08/25 15:37	VL120825
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	12/08/25 15:37	VL120825

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	11-IA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-04	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	0.18	0.88	U	1	0.88	2.46	12/08/25 15:37	VL120825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	12/08/25 15:37	VL120825
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	12/08/25 15:37	VL120825
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 15:37	VL120825
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 15:37	VL120825
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	12/08/25 15:37	VL120825
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	12/08/25 15:37	VL120825
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	12/08/25 15:37	VL120825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	12/08/25 15:37	VL120825
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	12/08/25 15:37	VL120825
110-54-3	Hexane	1.20	4.23		1	0.56	1.76	12/08/25 15:37	VL120825
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	12/08/25 15:37	VL120825
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	12/08/25 15:37	VL120825
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	12/08/25 15:37	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.5				70 (65) - 130 (135)	105% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	138000							
540-36-3	1,4-Difluorobenzene	354000							
3114-55-4	Chlorobenzene-d5	280000							

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\VL120825\
Data File : VL043314.D
Acq On : 08 Dec 2025 15:37
Operator : SY/MD
Sample : Q3799-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	138499	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.946	114	354324	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.869	117	279503	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.364	95	214484	10.469	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	7849	0.402	ppbv		96
3) Chlorodifluoromethane	1.473	51	6392m	0.333	ppbv		
4) Chloromethane	1.531	50	3636	0.498	ppbv		94
9) Propene	1.483	41	6390	0.783	ppbv	#	86
11) Trichlorofluoromethane	1.878	101	4305	0.227	ppbv		98
13) Ethanol	1.722	45	1527543	532.508	ppbv		91
15) Acetone	1.832	43	153023	7.952	ppbv		100
17) tert-Butyl alcohol	2.040	59	3031	0.120	ppbv		100
19) Isopropyl Alcohol	1.884	45	507615	46.685	ppbv	#	37
20) Methylene Chloride	2.059	84	6519	0.396	ppbv		88
26) Hexane	2.823	57	22119	1.216	ppbv	#	58
34) 2-Butanone	2.554	43	8673	0.347	ppbv	#	90
35) Carbon Tetrachloride	3.755	117	2524	0.094	ppbv	#	86
36) Benzene	3.648	78	5240	0.154	ppbv		94
52) Tetrachloroethene	8.215	164	1184m	0.094	ppbv		
53) Toluene	6.917	91	10274m	0.256	ppbv		
59) m/p-Xylene	9.519	91	5340m	0.124	ppbv		

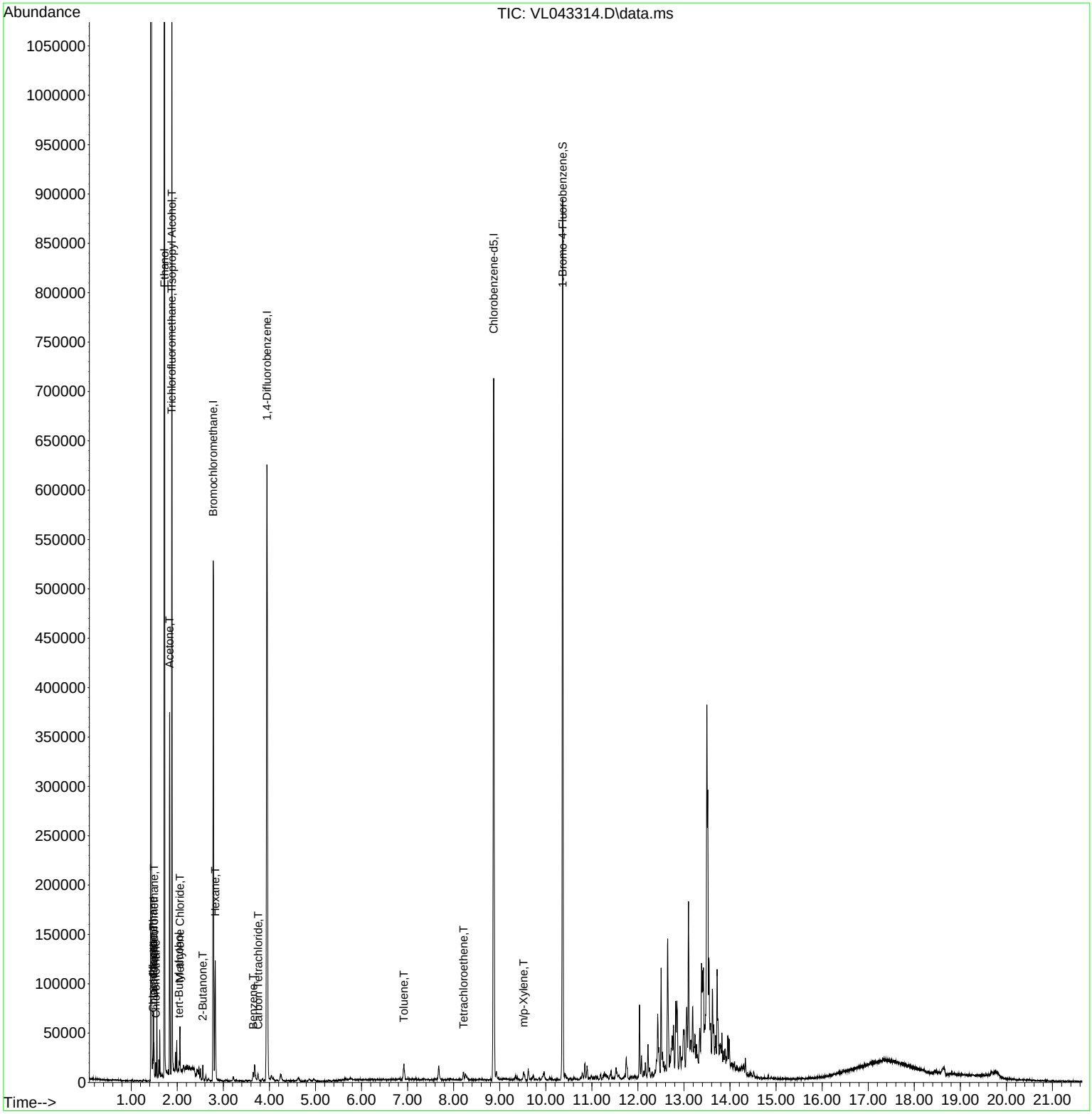
(#) = qualifier out of range (m) = manual integration (+) = signals summed

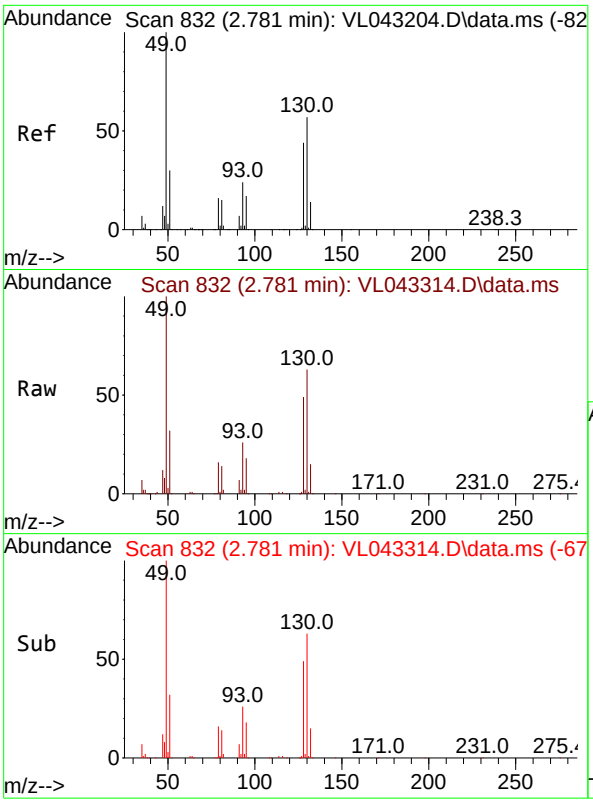
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043314.D
Acq On : 08 Dec 2025 15:37
Operator : SY/MD
Sample : Q3799-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

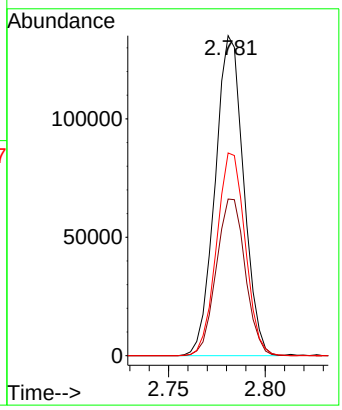




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 49 Resp: 13849

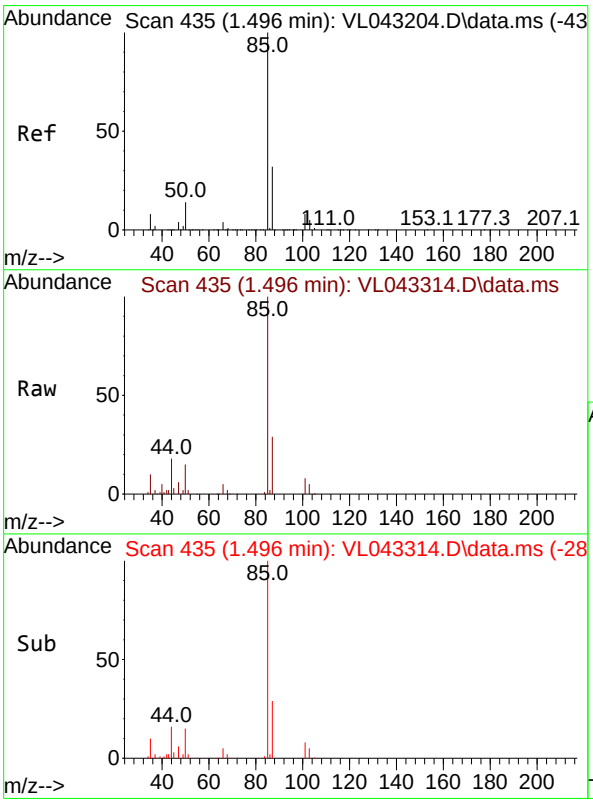
Ion	Ratio	Lower	Upper
49	100		
128	49.7	23.0	69.0
130	63.4	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations
APPROVED

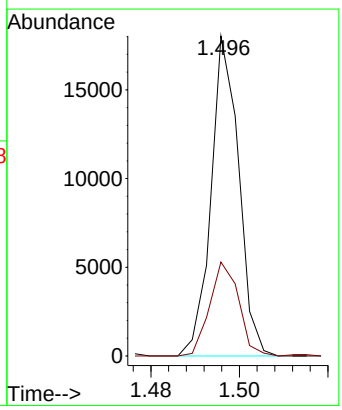
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

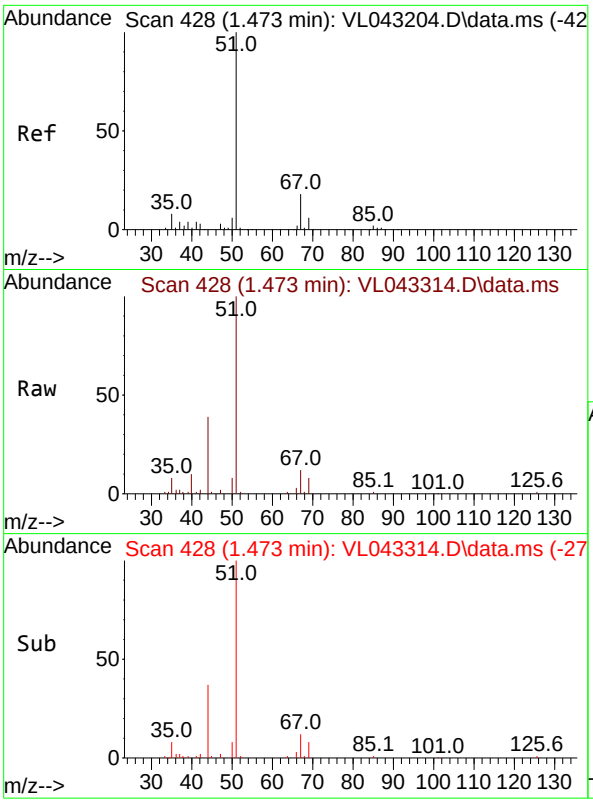


#2
Dichlorodifluoromethane
Concen: 0.402 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 85 Resp: 7849

Ion	Ratio	Lower	Upper
85	100		
87	29.4	25.4	38.2

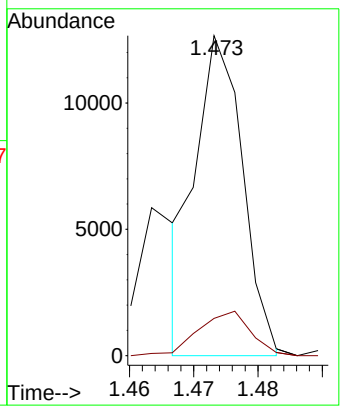




#3
Chlorodifluoromethane
Concen: 0.333 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 51 Resp: 639

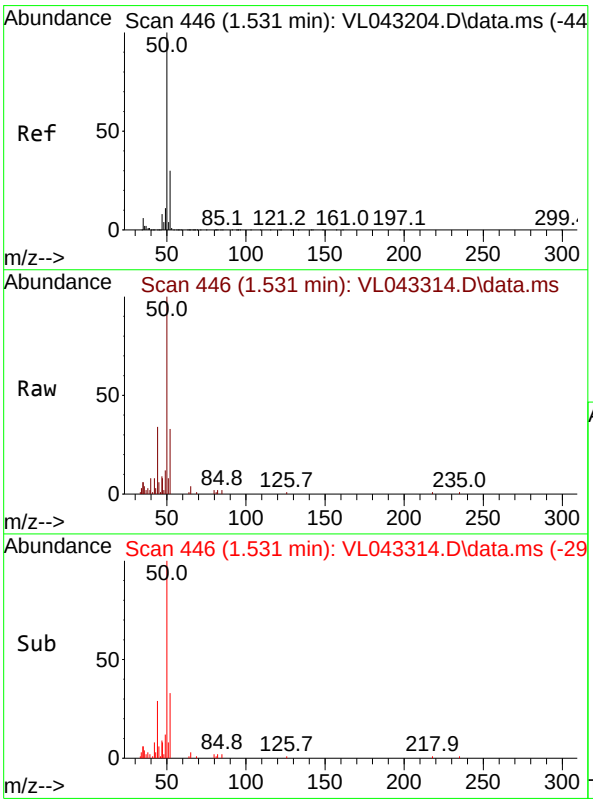
Ion	Ratio	Lower	Upper
51	100		
67	15.6	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations
APPROVED

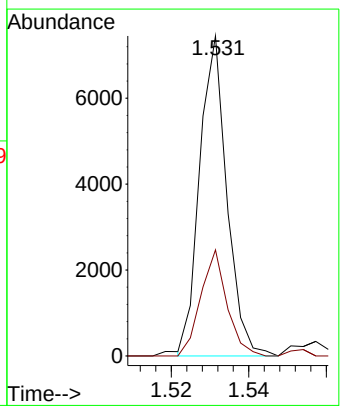
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

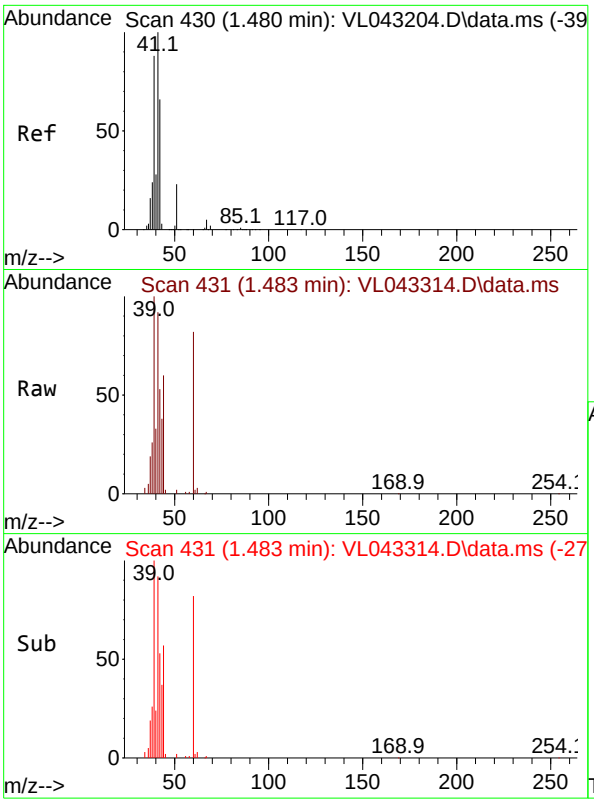


#4
Chloromethane
Concen: 0.498 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 50 Resp: 3636

Ion	Ratio	Lower	Upper
50	100		
52	33.1	24.1	36.1

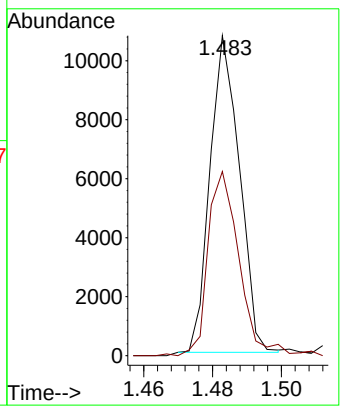




#9
Propene
Concen: 0.783 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 41 Resp: 639

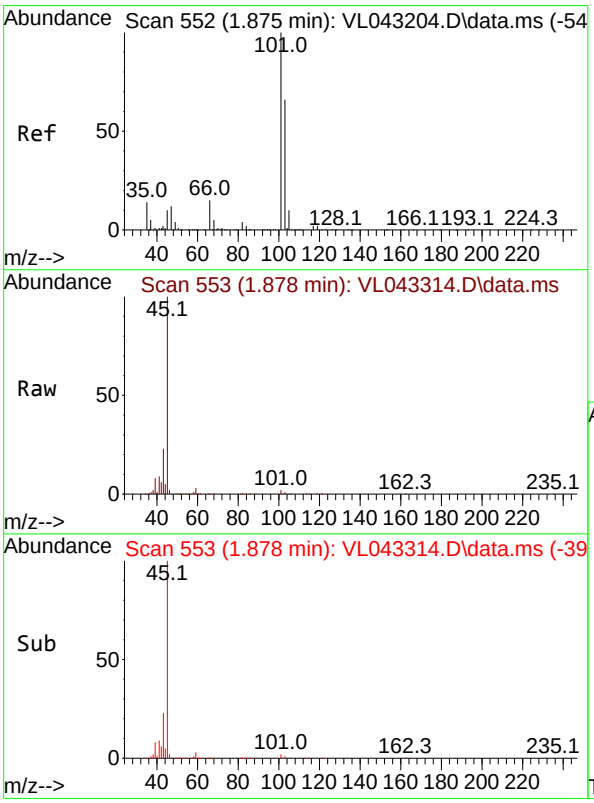
Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations
APPROVED

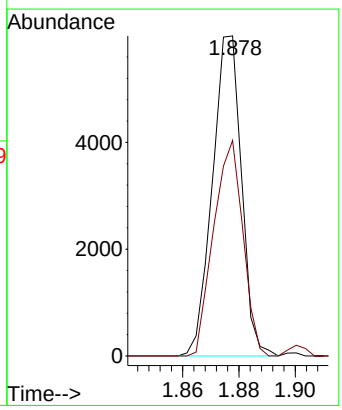
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

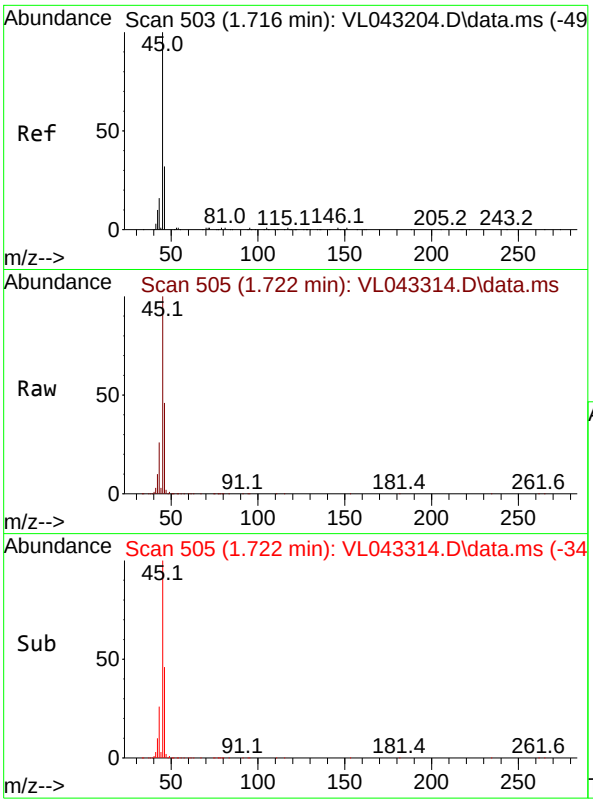


#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion:101 Resp: 4305

Ion	Ratio	Lower	Upper
101	100		
103	67.4	52.6	79.0

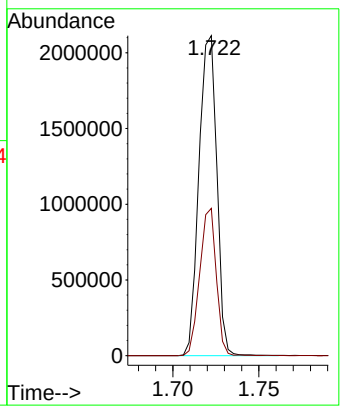




#13
Ethanol
Concen: 532.508 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 45 Resp: 152754

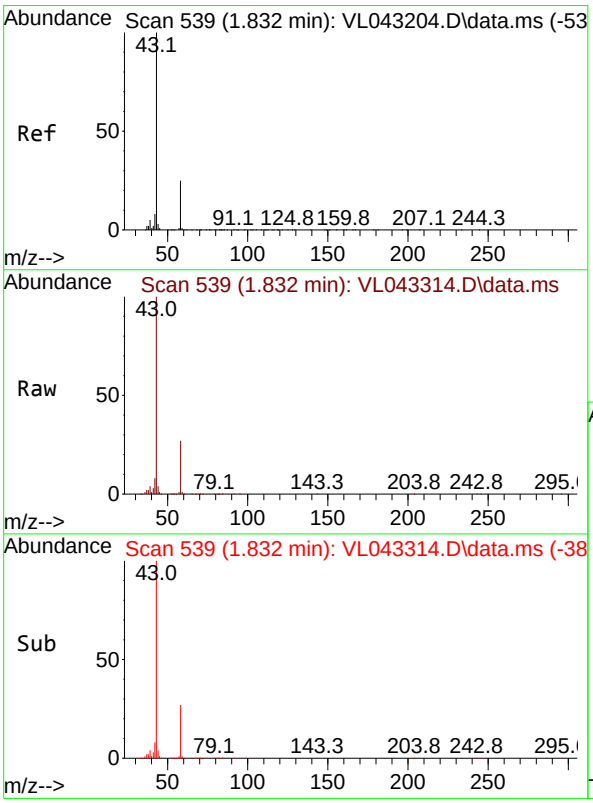
Ion	Ratio	Lower	Upper
45	100		
46	42.8	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations
APPROVED

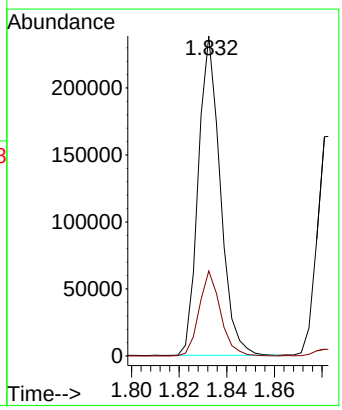
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

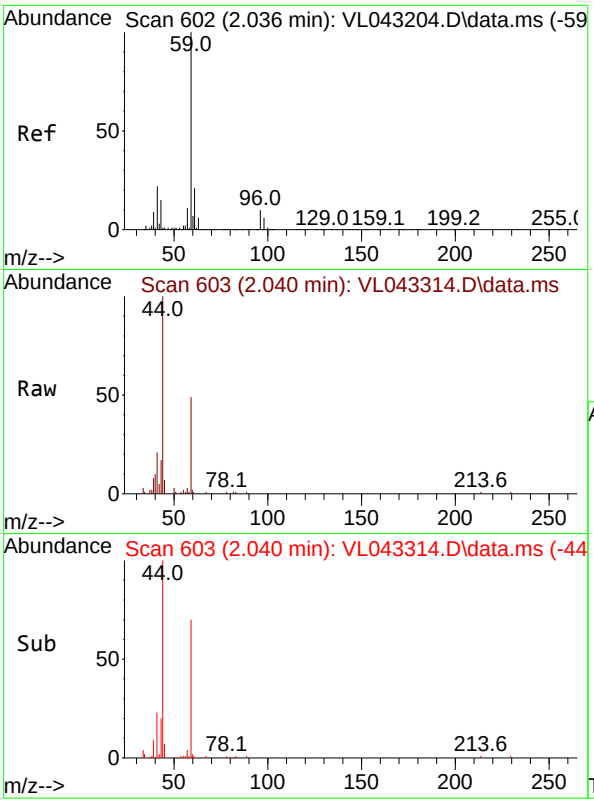


#15
Acetone
Concen: 7.952 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 43 Resp: 153023

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1

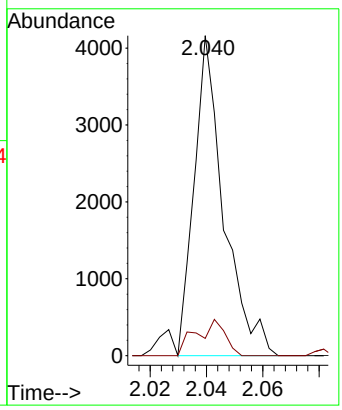




#17
tert-Butyl alcohol
Concen: 0.120 ppbv
RT: 2.040 min Scan# 6(
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 59 Resp: 303

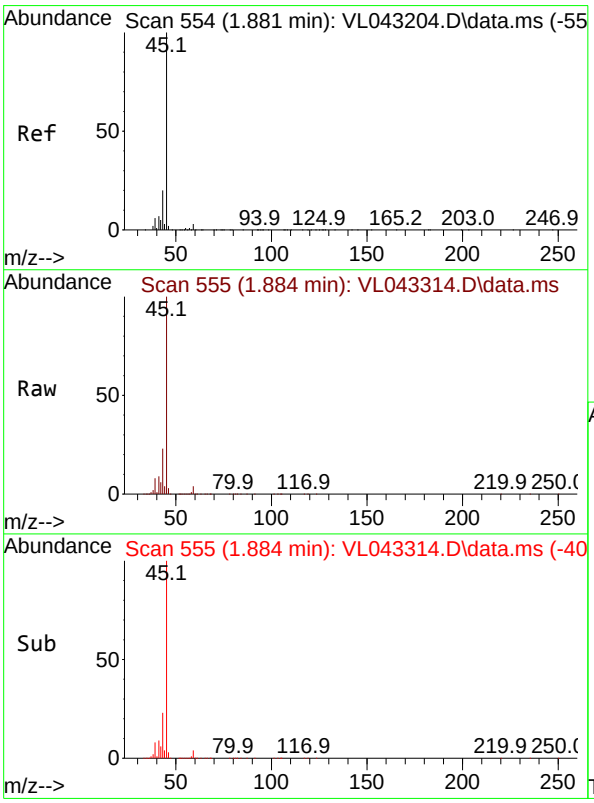
Ion	Ratio	Lower	Upper
59	100		
57	11.1	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations
APPROVED

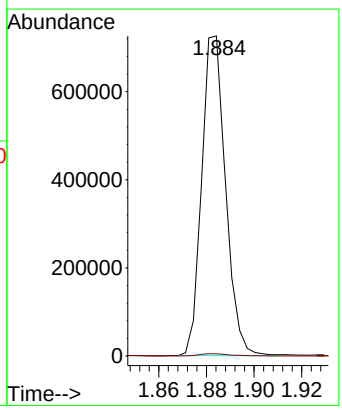
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

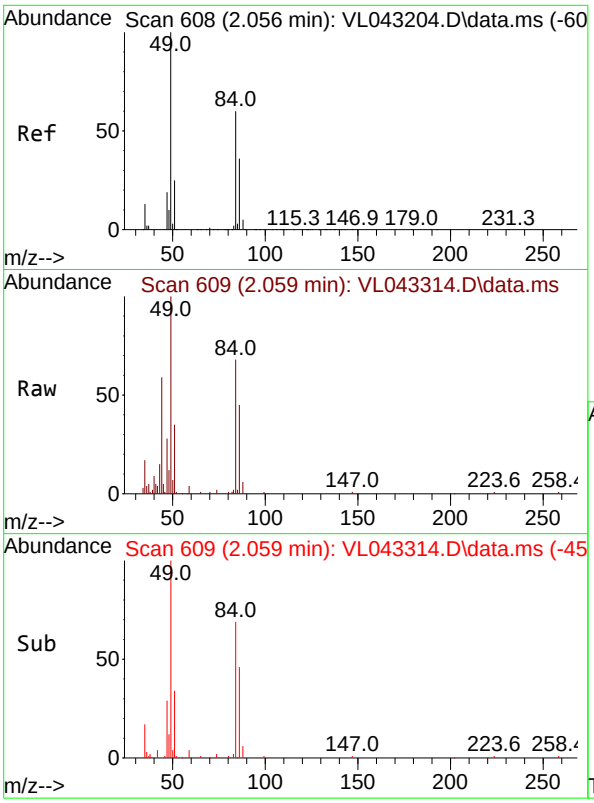


#19
Isopropyl Alcohol
Concen: 46.685 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 45 Resp: 507615

Ion	Ratio	Lower	Upper
45	100		
58	0.9	31.3	46.9#

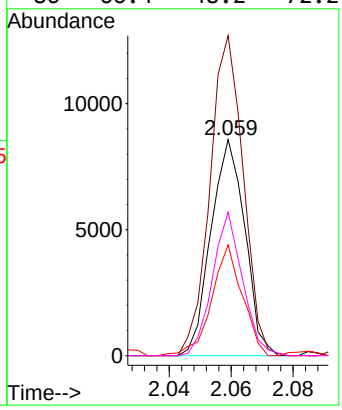




#20
Methylene Chloride
Concen: 0.396 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 84 Resp: 651

Ion	Ratio	Lower	Upper
84	100		
49	148.0	132.9	199.3
51	51.3	34.8	52.2
86	66.4	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 12/09/2025
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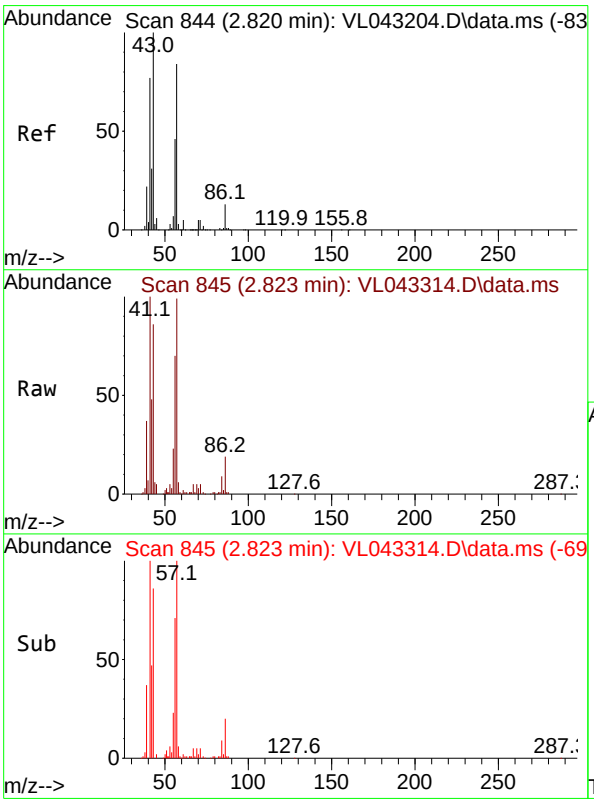
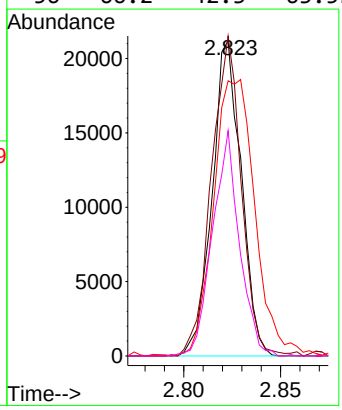
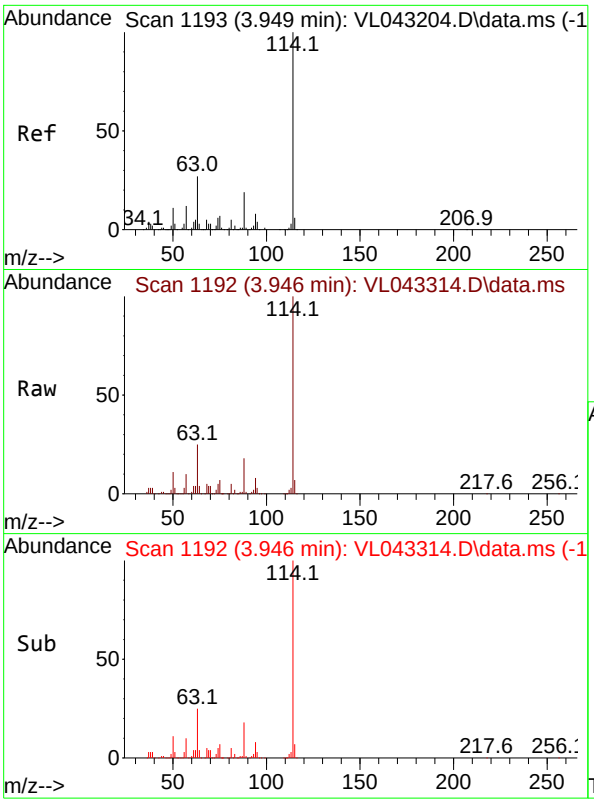


#26
Hexane
Concen: 1.216 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 57 Resp: 22119

Ion	Ratio	Lower	Upper
57	100		
41	104.5	74.6	111.8
43	125.3	179.0	268.4#
56	66.2	42.3	63.5#

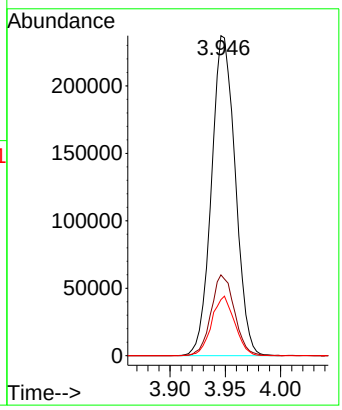




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion:114 Resp: 35432

Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.0	31.6
88	18.1	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

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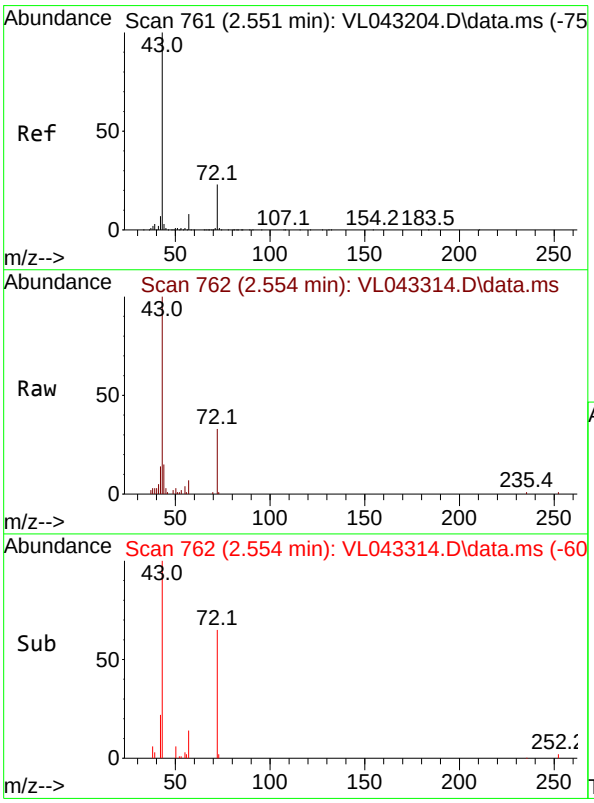
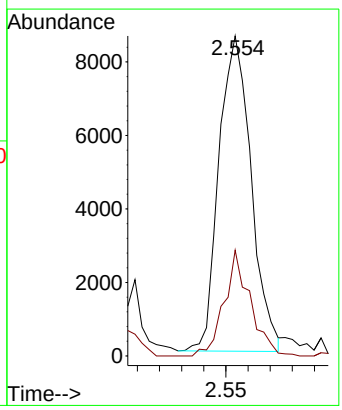
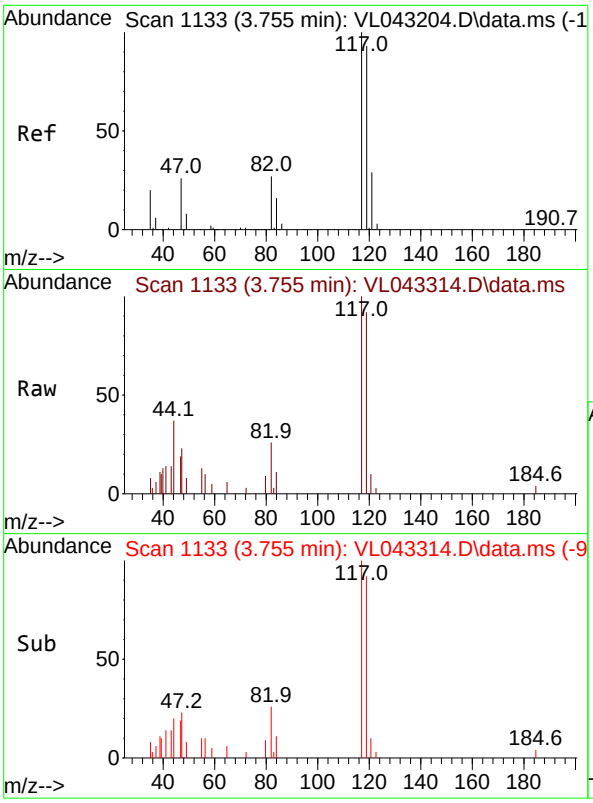


#34
2-Butanone
Concen: 0.347 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 43 Resp: 8673

Ion	Ratio	Lower	Upper
43	100		
72	27.2	18.1	27.1#

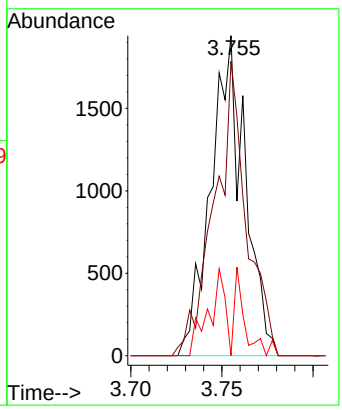




#35
Carbon Tetrachloride
Concen: 0.094 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion:117 Resp: 252

Ion	Ratio	Lower	Upper
117	100		
119	92.0	74.6	112.0
121	0.0	23.2	34.8#



Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations
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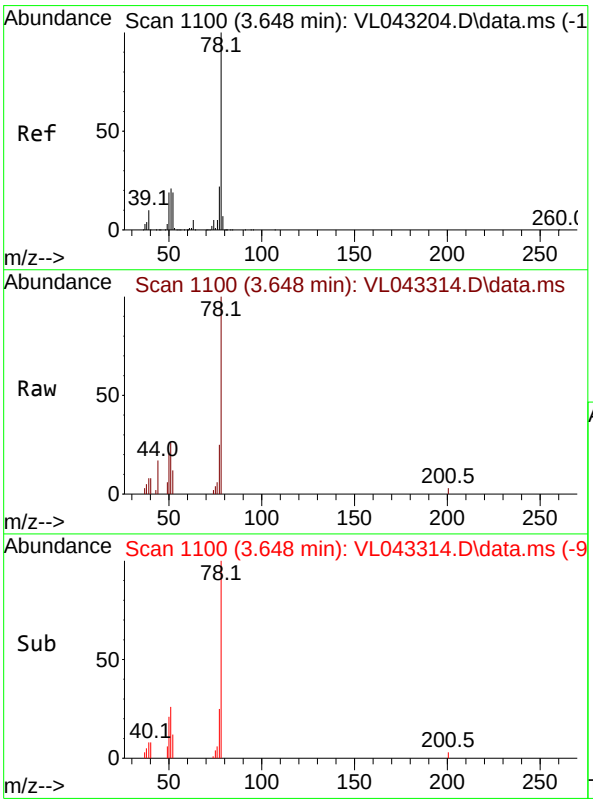
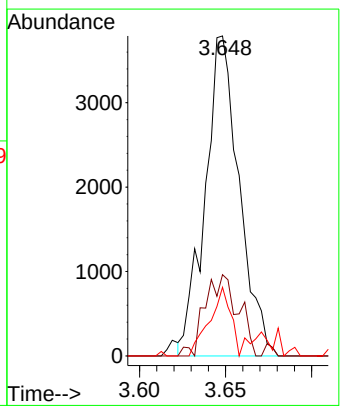
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

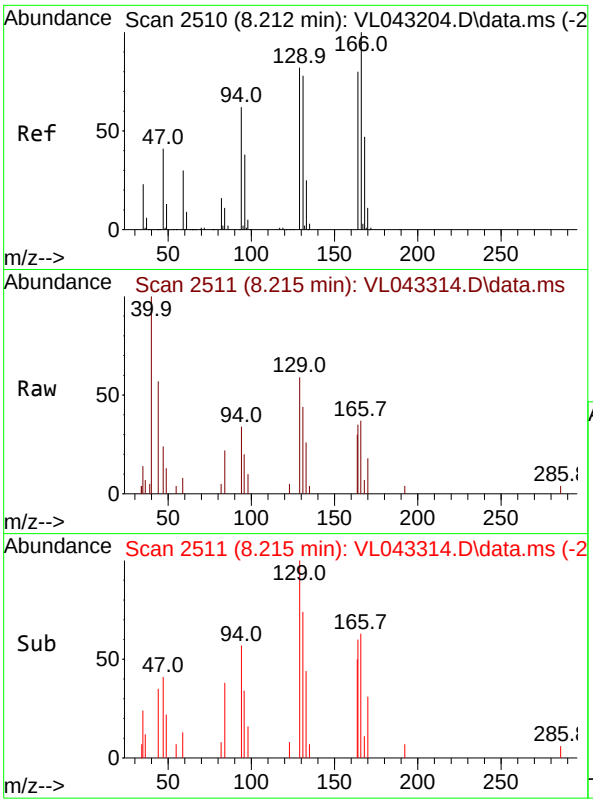


#36
Benzene
Concen: 0.154 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 78 Resp: 5240

Ion	Ratio	Lower	Upper
78	100		
77	25.4	17.5	26.3
50	21.4	15.5	23.3

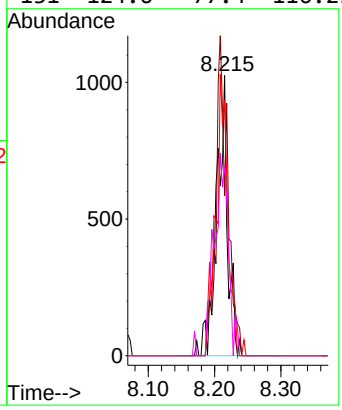




#52
Tetrachloroethene
Concen: 0.094 ppbv m
RT: 8.215 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion:164 Resp: 118

Ion	Ratio	Lower	Upper
164	100		
166	105.0	99.4	149.2
129	167.6	81.8	122.8#
131	124.6	77.4	116.2#



Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations
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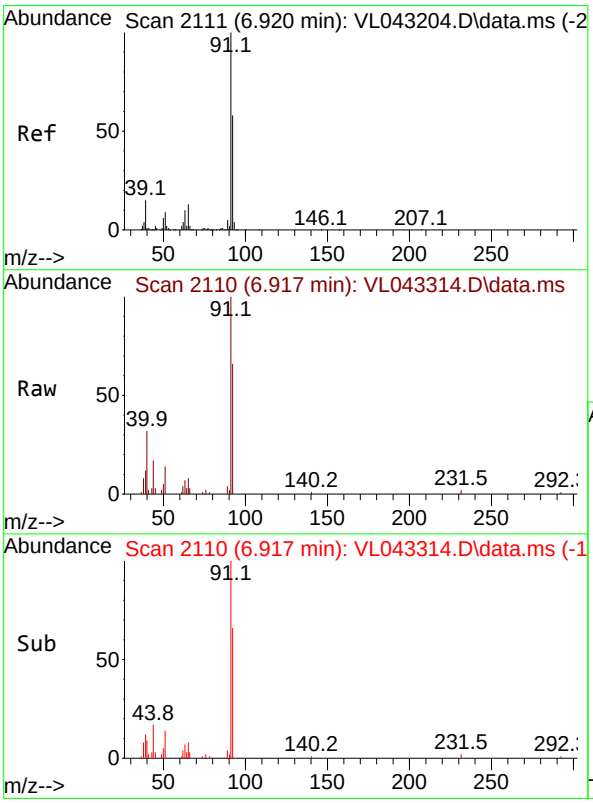
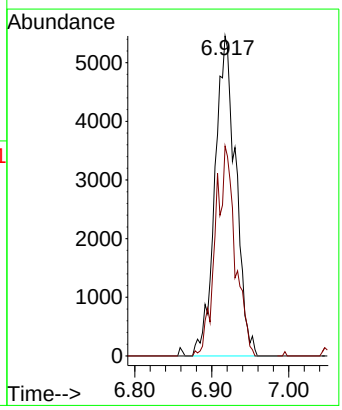
Supervised By :Mahesh Dadoda 12/11/2025

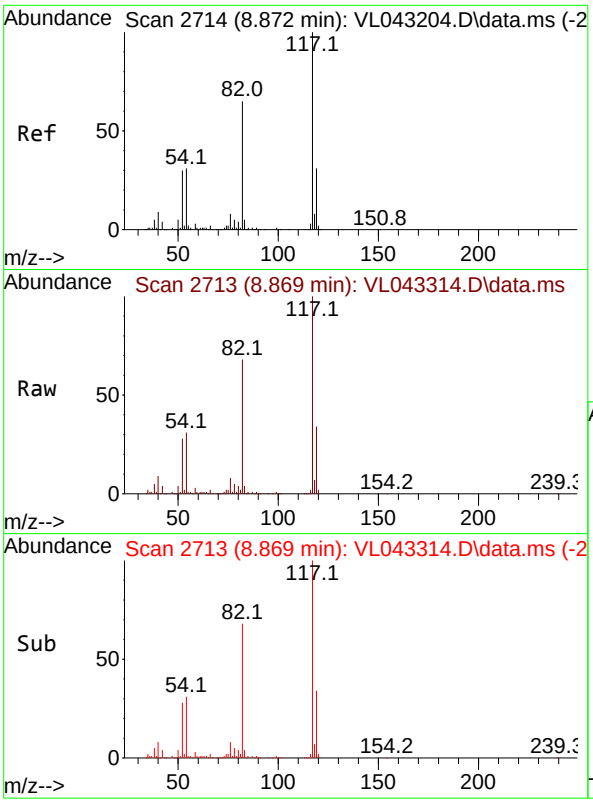


#53
Toluene
Concen: 0.256 ppbv m
RT: 6.917 min Scan# 2110
Delta R.T. -0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 91 Resp: 10274

Ion	Ratio	Lower	Upper
91	100		
92	62.3	47.4	71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion:117 Resp: 27950

Ion	Ratio	Lower	Upper
117	100		
82	65.9	56.1	84.1
119	32.6	25.0	37.6

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations
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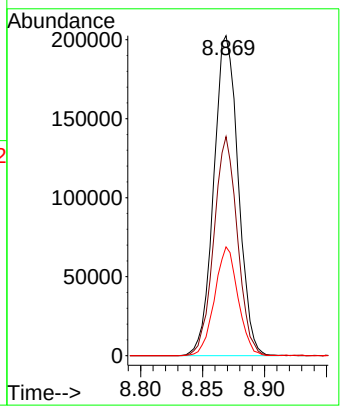
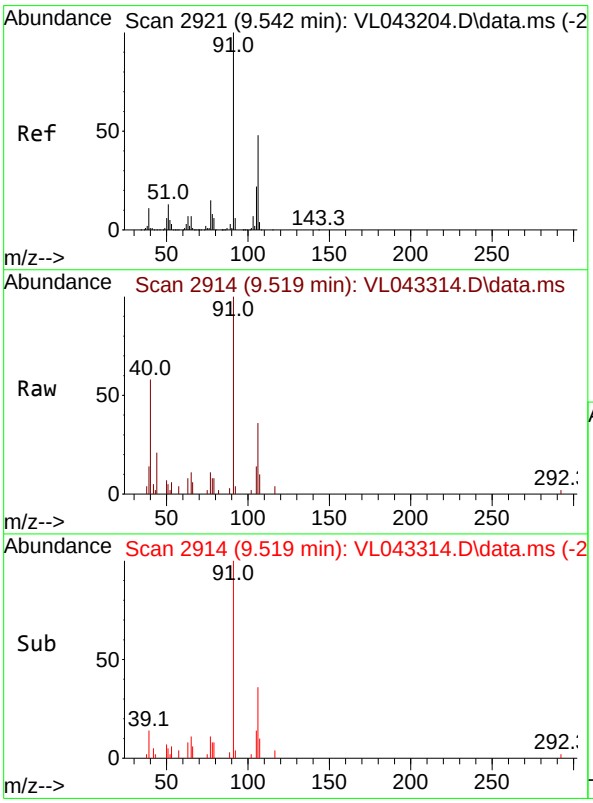
Supervised By :Mahesh Dadoda 12/11/2025

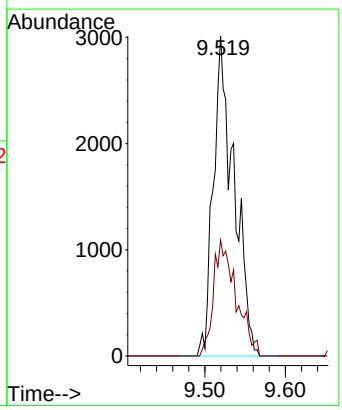


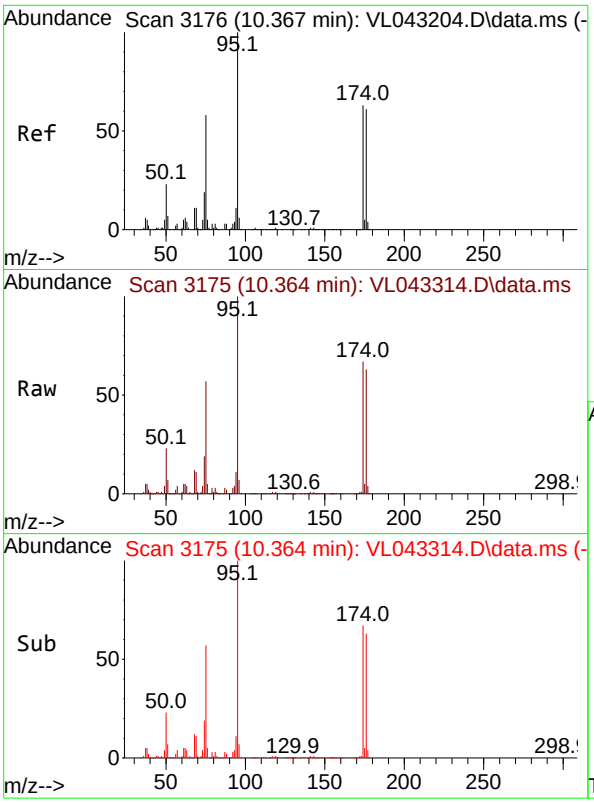


#59
m/p-Xylene
Concen: 0.124 ppbv m
RT: 9.519 min Scan# 2914
Delta R.T. -0.023 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 91 Resp: 5340

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

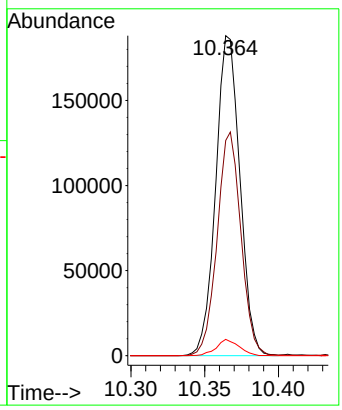




#68
1-Bromo-4-Fluorobenzene
Concen: 10.469 ppbv
RT: 10.364 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 95 Resp: 21448

Ion	Ratio	Lower	Upper
95	100		
174	68.8	50.2	75.2
175	4.8	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

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:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	13-IA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-05	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	0.40	1.98	J	1	0.54	2.47	12/08/25 16:25	VL120825
74-87-3	Chloromethane	0.46	0.95	J	1	0.21	1.03	12/08/25 16:25	VL120825
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	12/08/25 16:25	VL120825
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	12/08/25 16:25	VL120825
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	12/08/25 16:25	VL120825
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	12/08/25 16:25	VL120825
75-69-4	Trichlorofluoromethane	0.25	1.40	J	1	0.96	2.81	12/08/25 16:25	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	12/08/25 16:25	VL120825
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	12/08/25 16:25	VL120825
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	12/08/25 16:25	VL120825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	12/08/25 16:25	VL120825
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	12/08/25 16:25	VL120825
67-64-1	Acetone	3.50	8.31		1	0.43	1.19	12/08/25 16:25	VL120825
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	12/08/25 16:25	VL120825
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	12/08/25 16:25	VL120825
75-09-2	Methylene Chloride	0.76	2.64		1	0.80	1.74	12/08/25 16:25	VL120825
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	12/08/25 16:25	VL120825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	12/08/25 16:25	VL120825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	12/08/25 16:25	VL120825
78-93-3	2-Butanone	0.26	0.77	J	1	0.18	1.47	12/08/25 16:25	VL120825
56-23-5	Carbon Tetrachloride	0.070	0.44		1	0.19	0.19	12/08/25 16:25	VL120825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	12/08/25 16:25	VL120825
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	12/08/25 16:25	VL120825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	12/08/25 16:25	VL120825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	12/08/25 16:25	VL120825
71-43-2	Benzene	0.21	0.67	J	1	0.26	1.60	12/08/25 16:25	VL120825
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	12/08/25 16:25	VL120825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	12/08/25 16:25	VL120825
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	12/08/25 16:25	VL120825
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	12/08/25 16:25	VL120825
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	12/08/25 16:25	VL120825
108-88-3	Toluene	0.19	0.72	J	1	0.60	1.88	12/08/25 16:25	VL120825
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	12/08/25 16:25	VL120825
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	12/08/25 16:25	VL120825
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	12/08/25 16:25	VL120825
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	12/08/25 16:25	VL120825
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	12/08/25 16:25	VL120825
127-18-4	Tetrachloroethene	0.050	0.34		1	0.14	0.20	12/08/25 16:25	VL120825
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	12/08/25 16:25	VL120825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	12/08/25 16:25	VL120825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	12/08/25 16:25	VL120825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	12/08/25 16:25	VL120825
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	12/08/25 16:25	VL120825
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	12/08/25 16:25	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	12/08/25 16:25	VL120825
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	12/08/25 16:25	VL120825

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	13-IA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-05	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	0.18	0.88	U	1	0.88	2.46	12/08/25 16:25	VL120825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	12/08/25 16:25	VL120825
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	12/08/25 16:25	VL120825
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 16:25	VL120825
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 16:25	VL120825
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	12/08/25 16:25	VL120825
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	12/08/25 16:25	VL120825
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	12/08/25 16:25	VL120825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	12/08/25 16:25	VL120825
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	12/08/25 16:25	VL120825
110-54-3	Hexane	2.30	8.11		1	0.56	1.76	12/08/25 16:25	VL120825
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	12/08/25 16:25	VL120825
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	12/08/25 16:25	VL120825
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	12/08/25 16:25	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.2				70 (65) - 130 (135)	102% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	134000							
540-36-3	1,4-Difluorobenzene	345000							
3114-55-4	Chlorobenzene-d5	262000							

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\VL120825\
Data File : VL043315.D
Acq On : 08 Dec 2025 16:25
Operator : SY/MD
Sample : Q3799-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:12:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.777	49	133616	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.943	114	344933	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.865	117	261904	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.361	95	195928	10.206	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	7550	0.401	ppbv		94
3) Chlorodifluoromethane	1.473	51	11927m	0.644	ppbv		
4) Chloromethane	1.528	50	3225	0.458	ppbv		93
9) Propene	1.486	41	6937	0.881	ppbv	#	1
11) Trichlorofluoromethane	1.874	101	4607	0.252	ppbv		94
13) Ethanol	1.716	45	117047	42.294	ppbv		99
15) Acetone	1.829	43	65404	3.523	ppbv		100
19) Isopropyl Alcohol	1.881	45	152976	14.583	ppbv	#	38
20) Methylene Chloride	2.056	84	8141	0.763	ppbv	#	96
26) Hexane	2.819	57	39916	2.274	ppbv	#	44
34) 2-Butanone	2.551	43	6283	0.258	ppbv		99
35) Carbon Tetrachloride	3.745	117	1779m	0.068	ppbv		
36) Benzene	3.645	78	6800	0.206	ppbv		97
52) Tetrachloroethene	8.202	164	663m	0.054	ppbv		
53) Toluene	6.914	91	7587m	0.194	ppbv		

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043315.D
Acq On : 08 Dec 2025 16:25
Operator : SY/MD
Sample : Q3799-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:12:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
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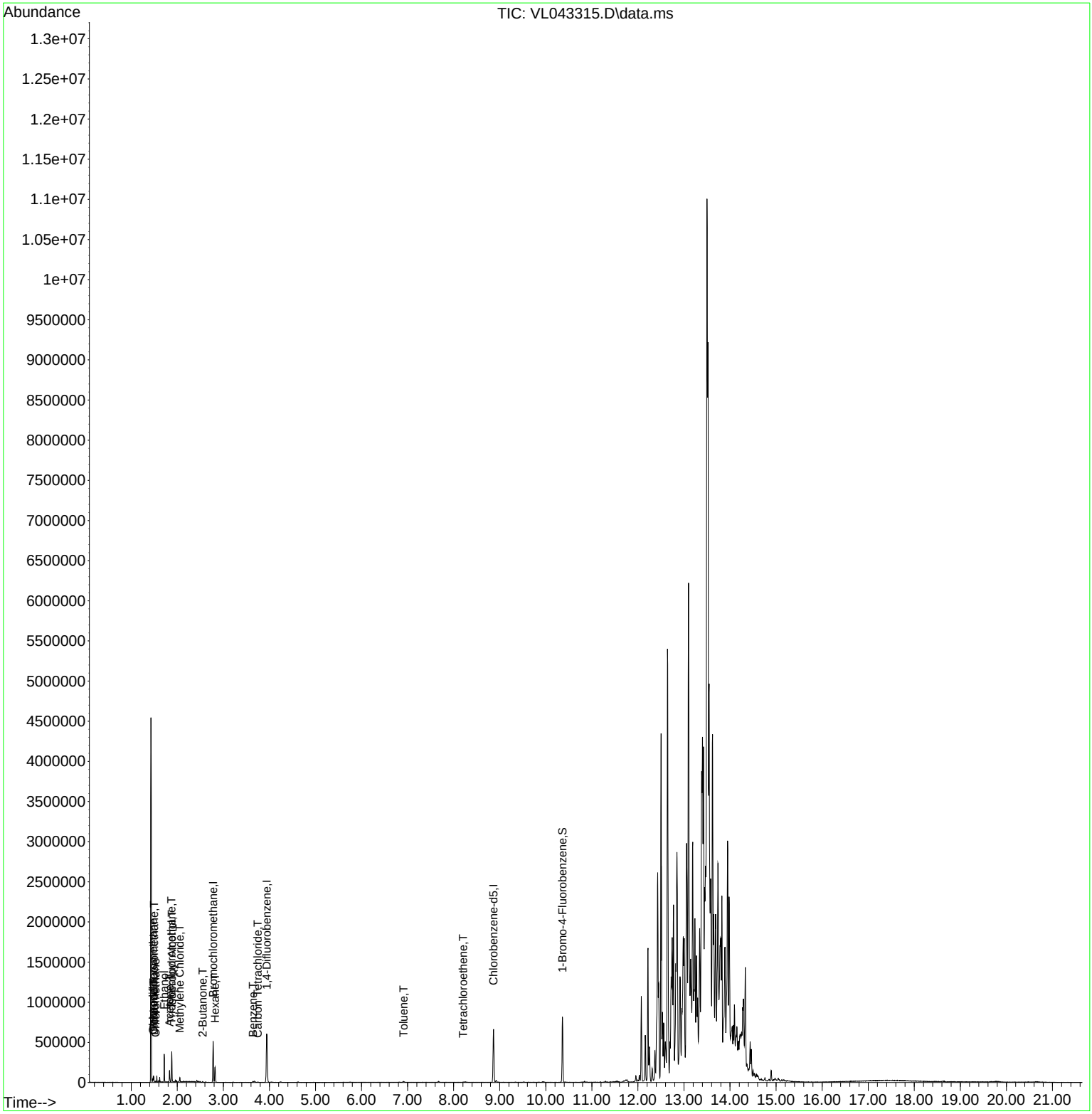
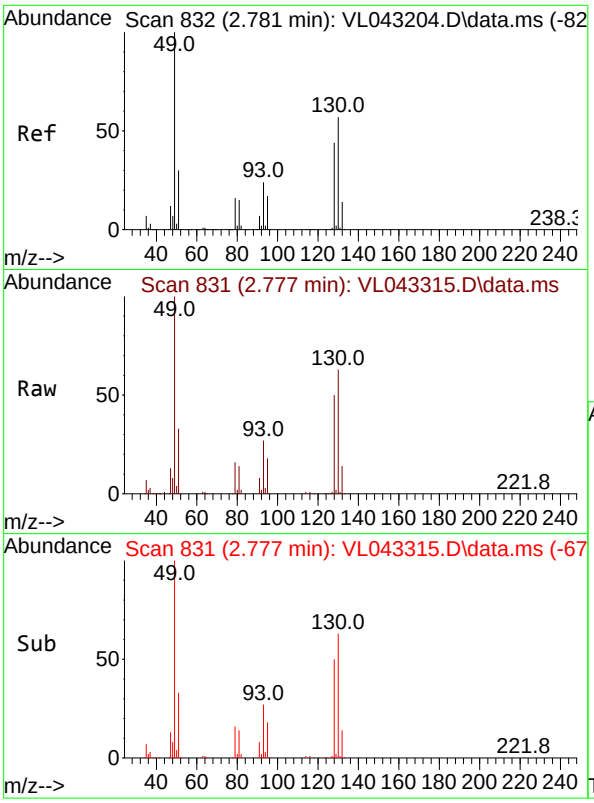
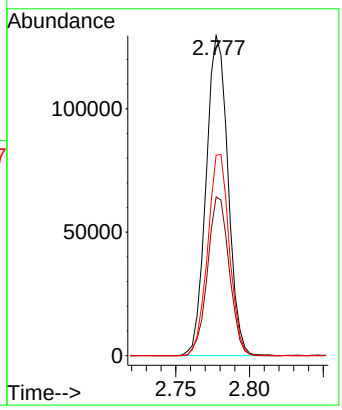




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 49 Resp: 13361

Ion	Ratio	Lower	Upper
49	100		
128	49.4	23.0	69.0
130	62.4	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 12/09/2025
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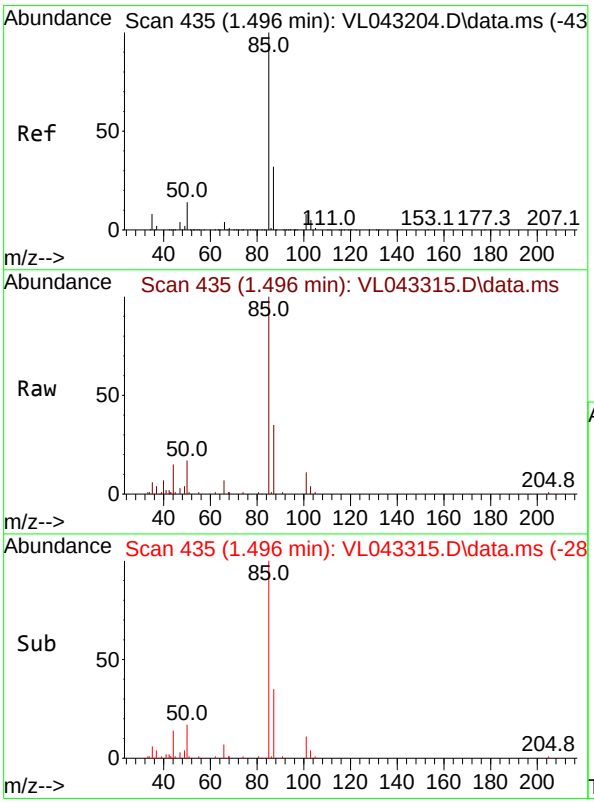
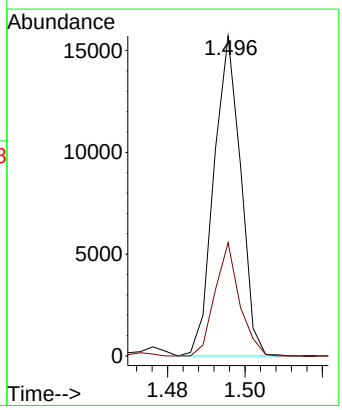
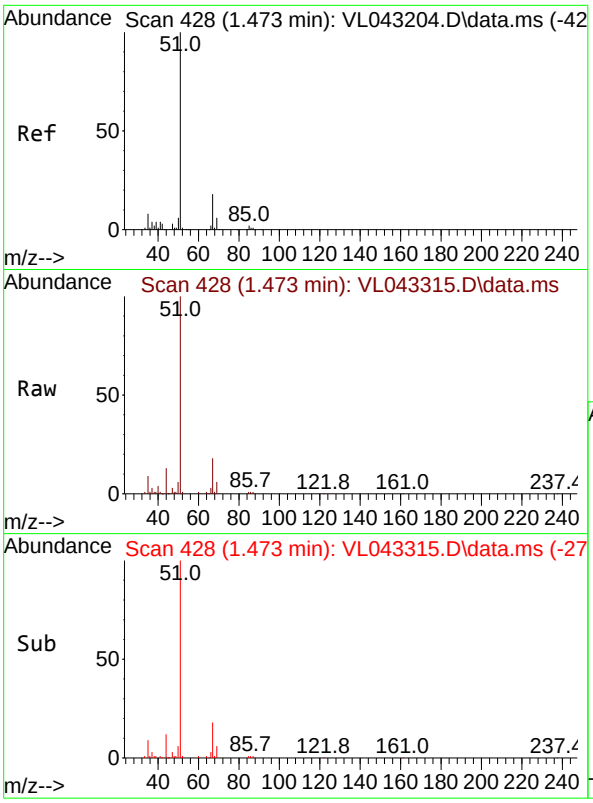


#2
Dichlorodifluoromethane
Concen: 0.401 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 85 Resp: 7550

Ion	Ratio	Lower	Upper
85	100		
87	35.4	25.4	38.2

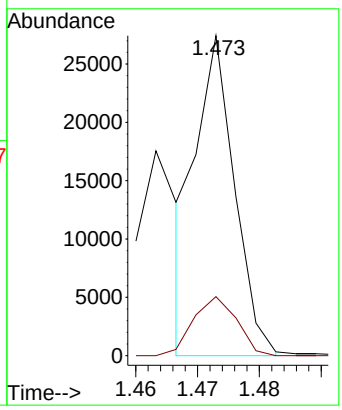




#3
Chlorodifluoromethane
Concen: 0.644 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 51 Resp: 1192

Ion	Ratio	Lower	Upper
51	100		
67	20.8	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations
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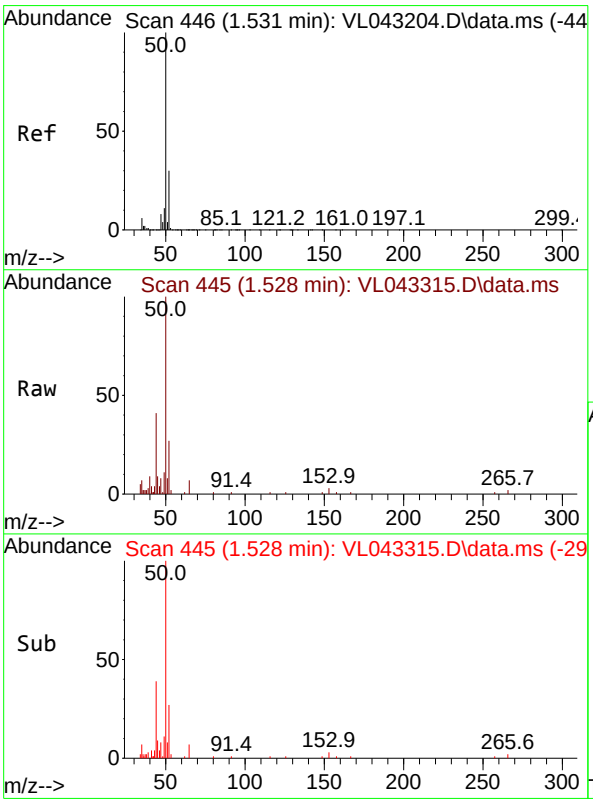
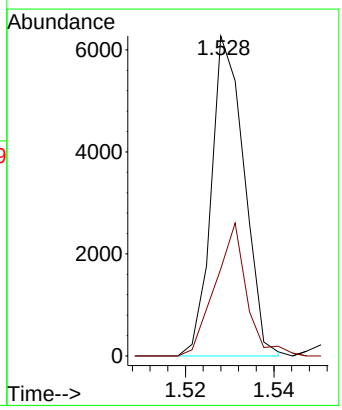
Supervised By :Mahesh Dadoda 12/11/2025

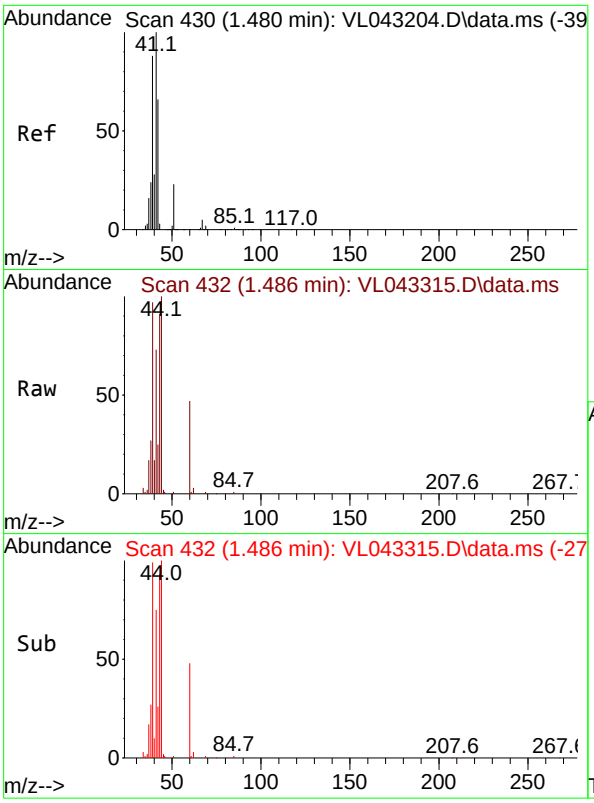


#4
Chloromethane
Concen: 0.458 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 50 Resp: 3225

Ion	Ratio	Lower	Upper
50	100		
52	26.3	24.1	36.1

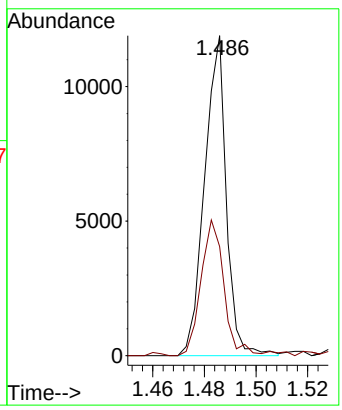




#9
Propene
Concen: 0.881 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 41 Resp: 693

Ion	Ratio	Lower	Upper
41	100		
42	45.2	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations
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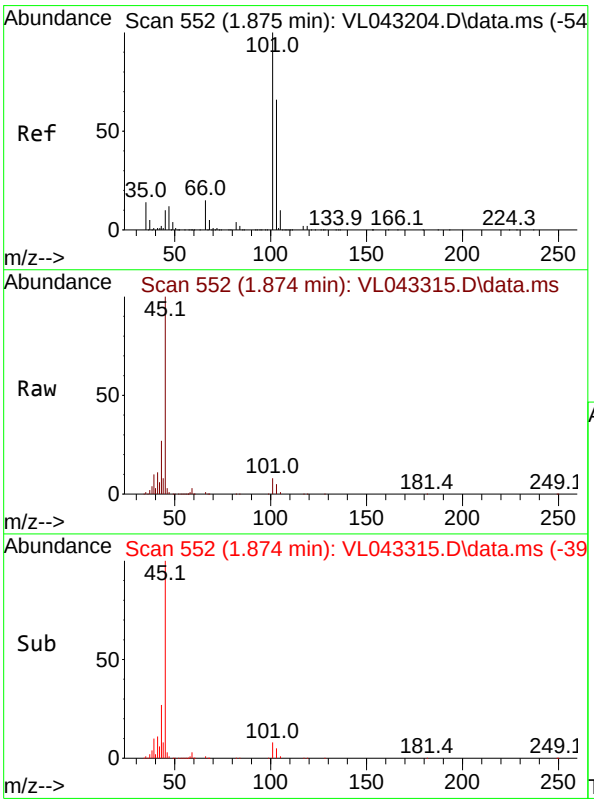
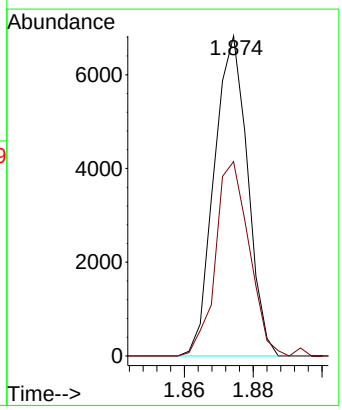
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

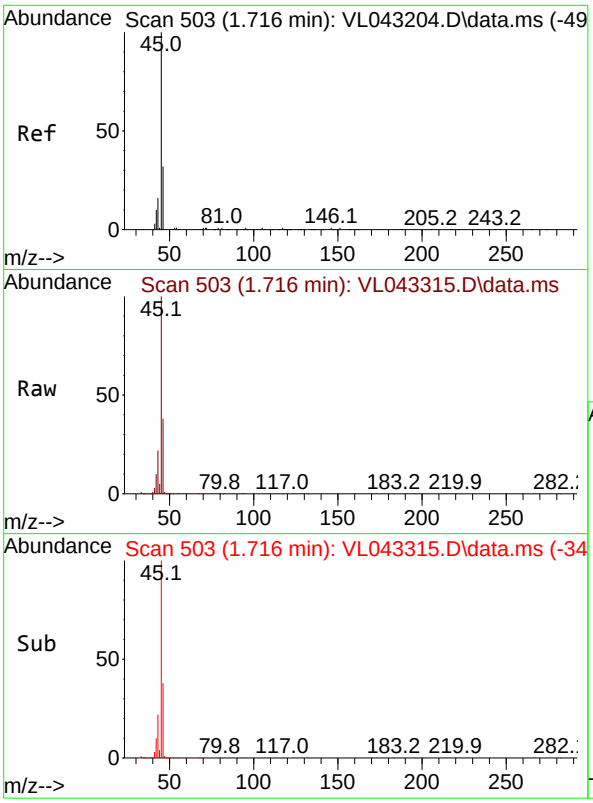


#11
Trichlorofluoromethane
Concen: 0.252 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion:101 Resp: 4607

Ion	Ratio	Lower	Upper
101	100		
103	60.7	52.6	79.0

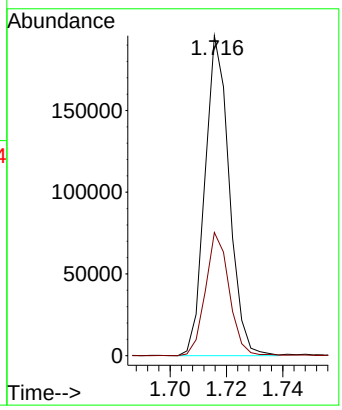




#13
Ethanol
Concen: 42.294 ppbv
RT: 1.716 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 45 Resp: 11704

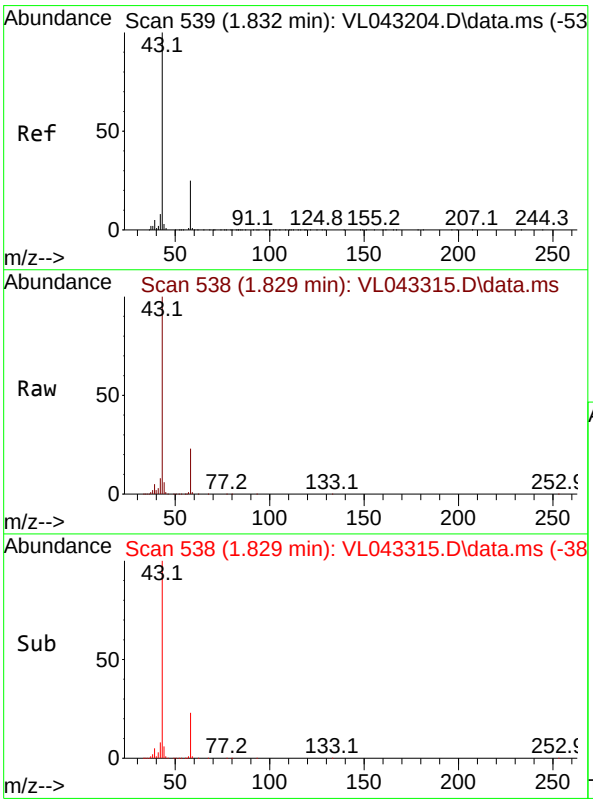
Ion	Ratio	Lower	Upper
45	100		
46	38.1	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations
APPROVED

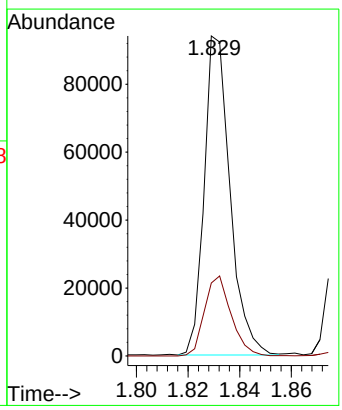
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

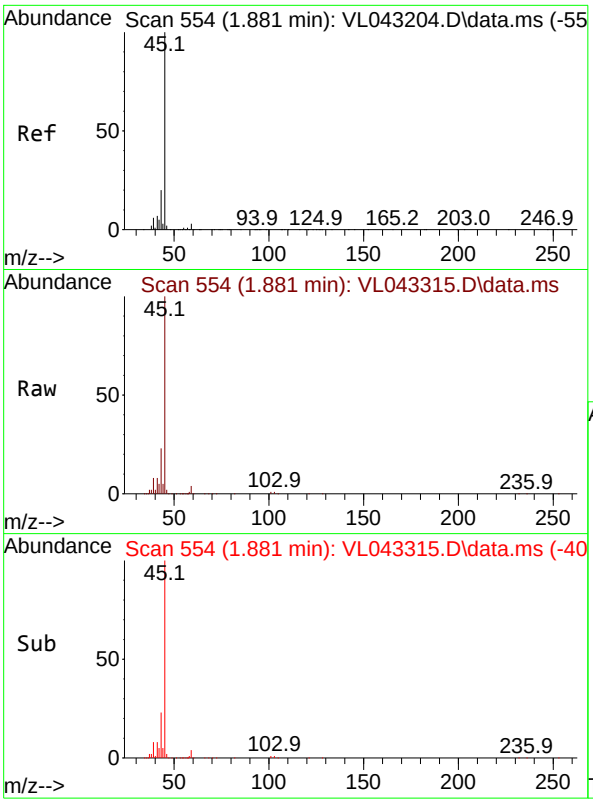


#15
Acetone
Concen: 3.523 ppbv
RT: 1.829 min Scan# 538
Delta R.T. -0.003 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 43 Resp: 65404

Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.7	31.1

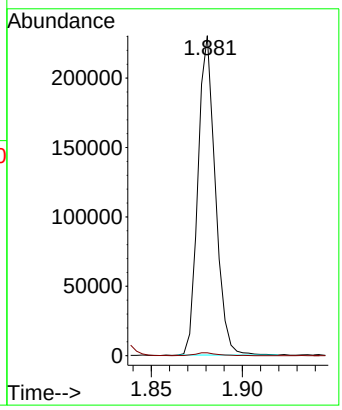




#19
Isopropyl Alcohol
Concen: 14.583 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 45 Resp: 15297

Ion	Ratio	Lower	Upper
45	100		
58	1.2	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
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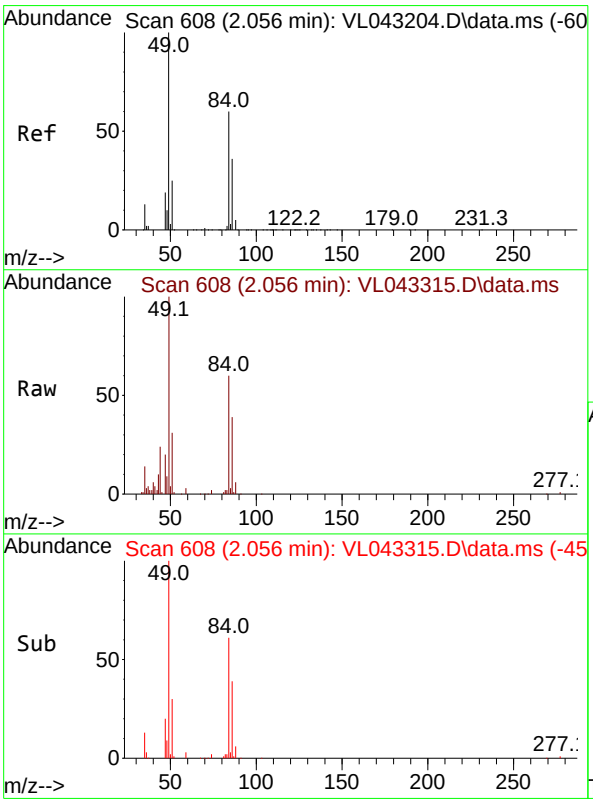
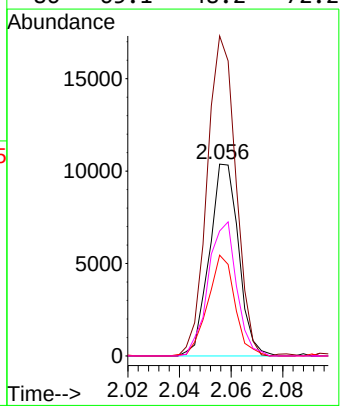
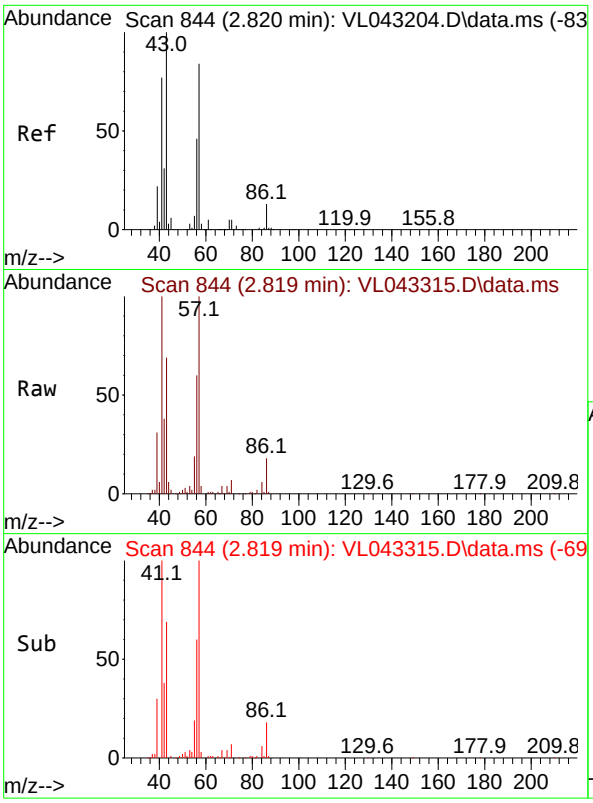


#20
Methylene Chloride
Concen: 0.763 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 84 Resp: 8141

Ion	Ratio	Lower	Upper
84	100		
49	166.8	132.9	199.3
51	52.5	34.8	52.2#
86	65.1	48.2	72.2

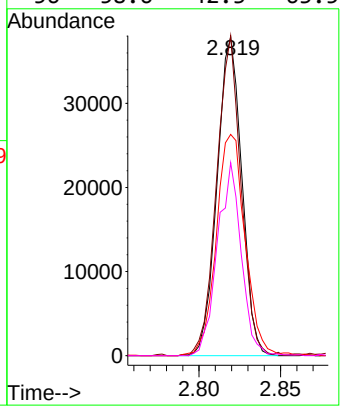




#26
Hexane
Concen: 2.274 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 57 Resp: 3991

Ion	Ratio	Lower	Upper
57	100		
41	100.1	74.6	111.8
43	81.2	179.0	268.4
56	58.6	42.3	63.5



Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
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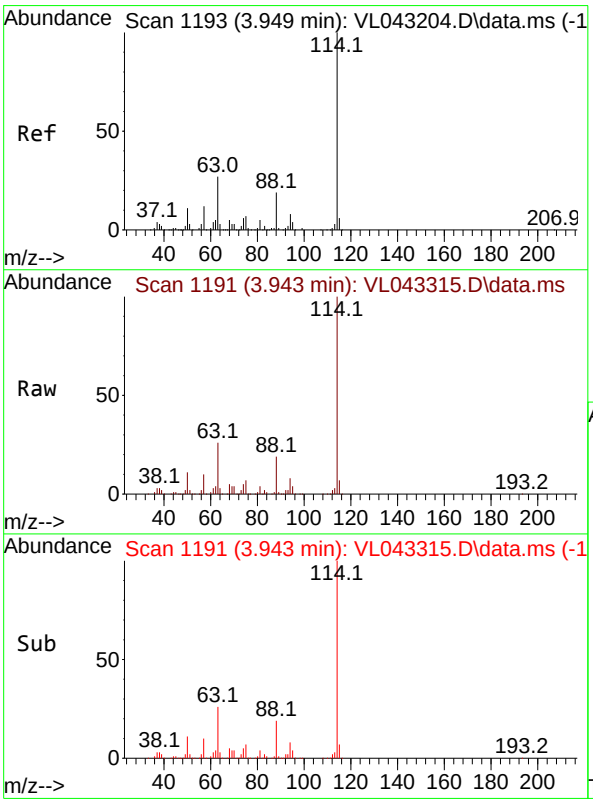
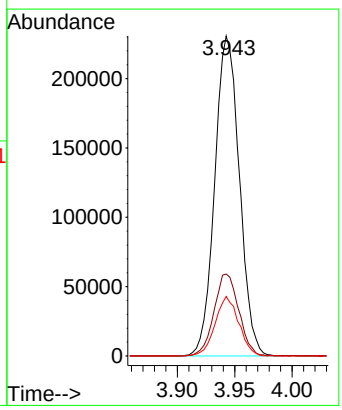
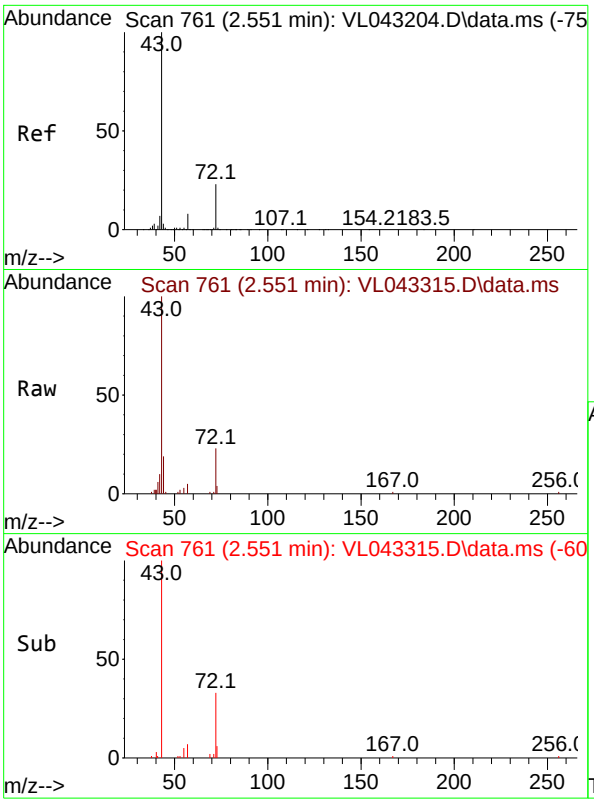


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 1191
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion:114 Resp: 344933

Ion	Ratio	Lower	Upper
114	100		
63	25.8	21.0	31.6
88	17.8	14.9	22.3

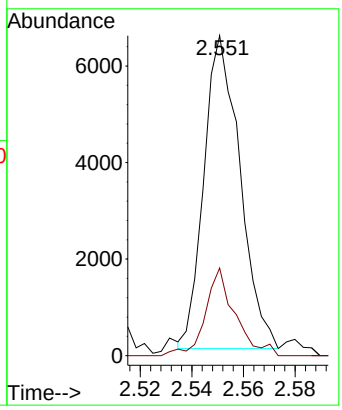




#34
2-Butanone
Concen: 0.258 ppbv
RT: 2.551 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 43 Resp: 628

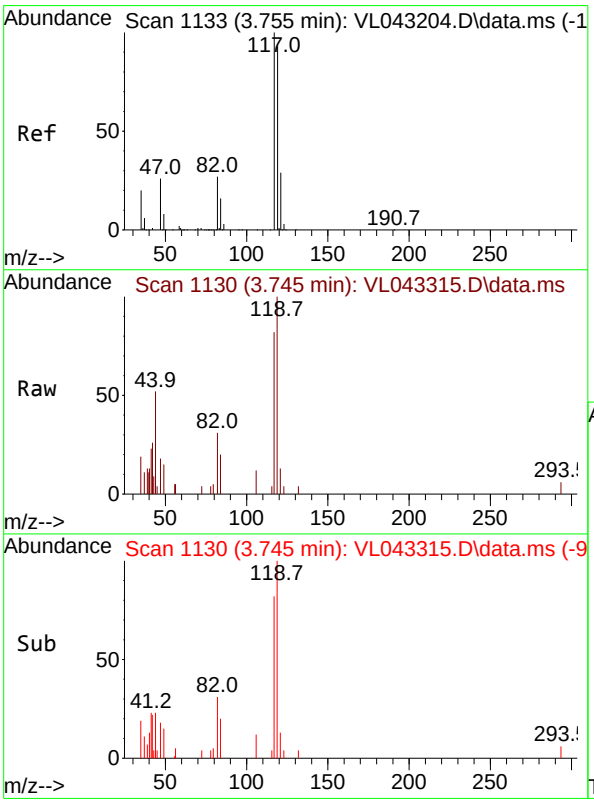
Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.1	27.1



Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations
APPROVED

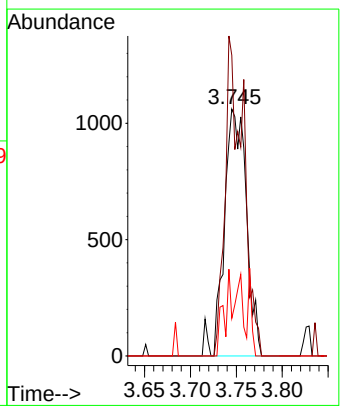
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

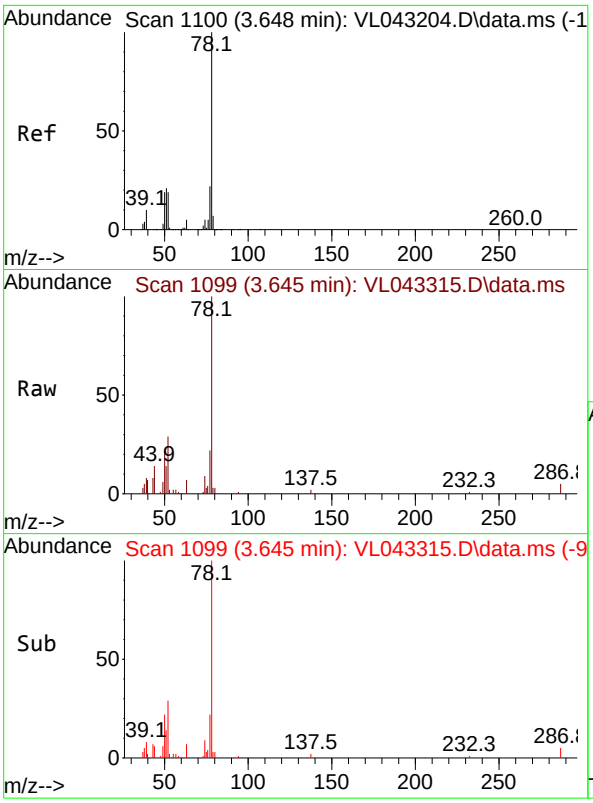


#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.745 min Scan# 1130
Delta R.T. -0.010 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion:117 Resp: 1779

Ion	Ratio	Lower	Upper
117	100		
119	121.8	74.6	112.0#
121	15.3	23.2	34.8#

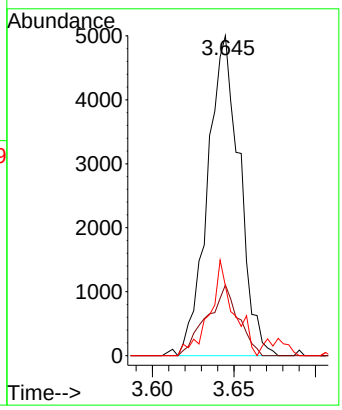




#36
Benzene
Concen: 0.206 ppbv
RT: 3.645 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 78 Resp: 680

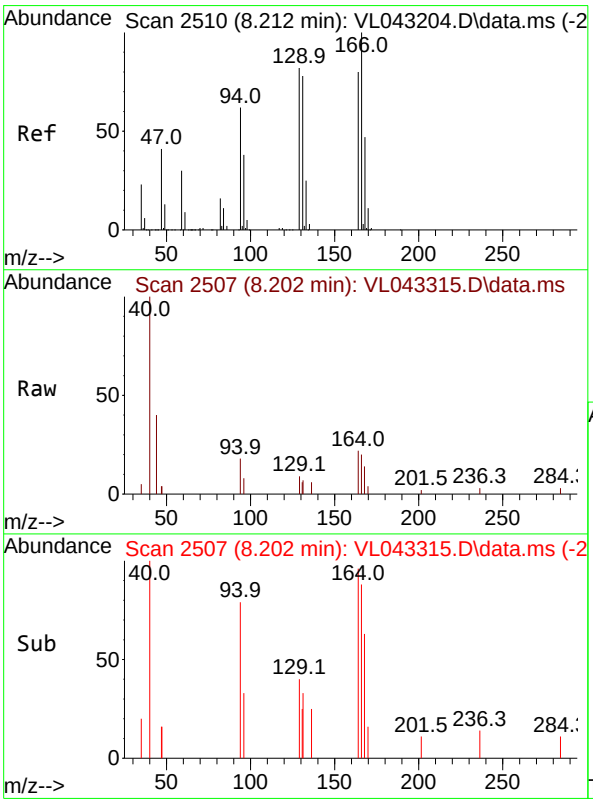
Ion	Ratio	Lower	Upper
78	100		
77	22.1	17.5	26.3
50	21.8	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations
APPROVED

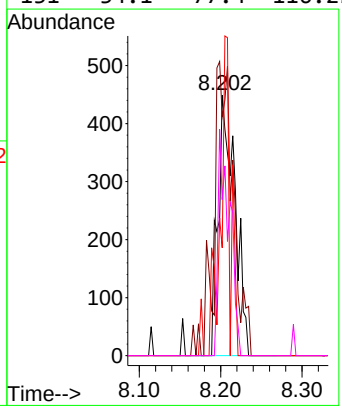
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

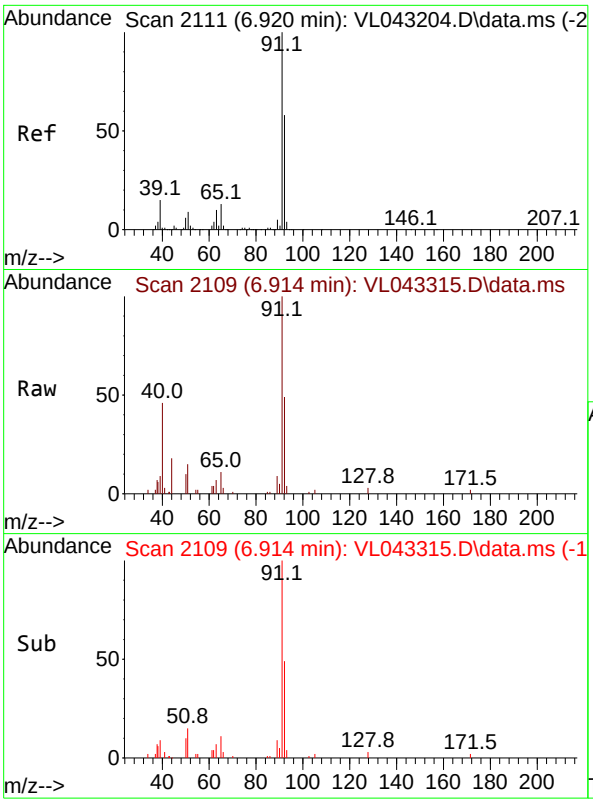


#52
Tetrachloroethene
Concen: 0.054 ppbv m
RT: 8.202 min Scan# 2507
Delta R.T. -0.010 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion:164 Resp: 663

Ion	Ratio	Lower	Upper
164	100		
166	91.8	99.4	149.2#
129	41.4	81.8	122.8#
131	34.1	77.4	116.2#

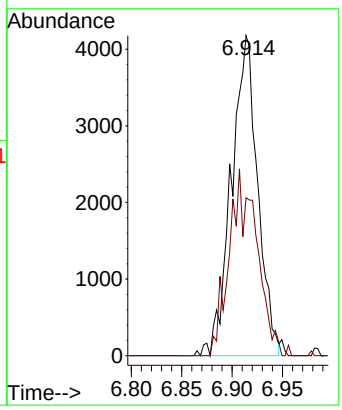




#53
Toluene
Concen: 0.194 ppbv m
RT: 6.914 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 91 Resp: 758

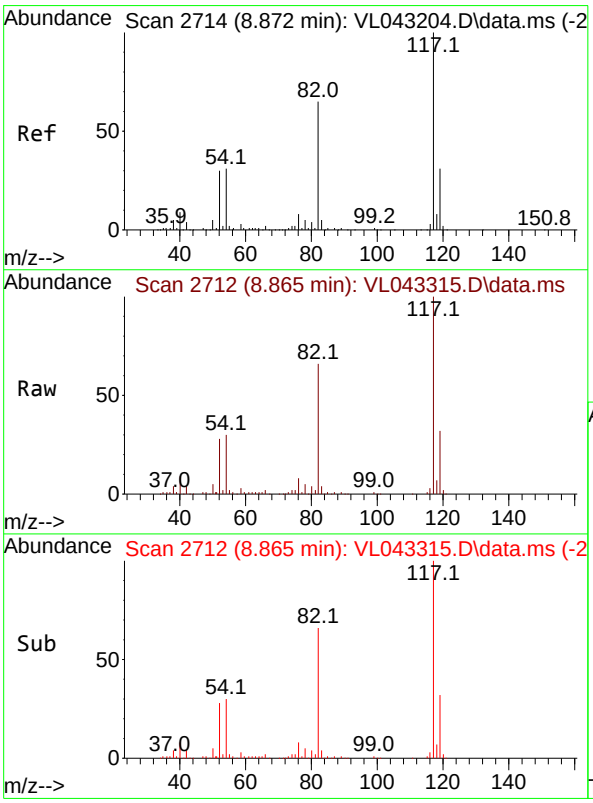
Ion	Ratio	Lower	Upper
91	100		
92	61.7	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations
APPROVED

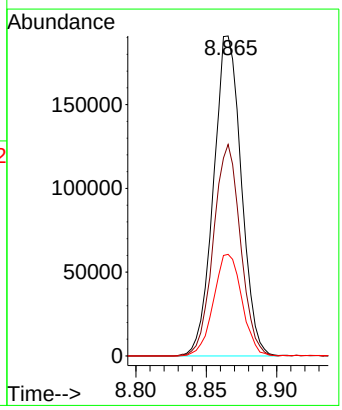
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

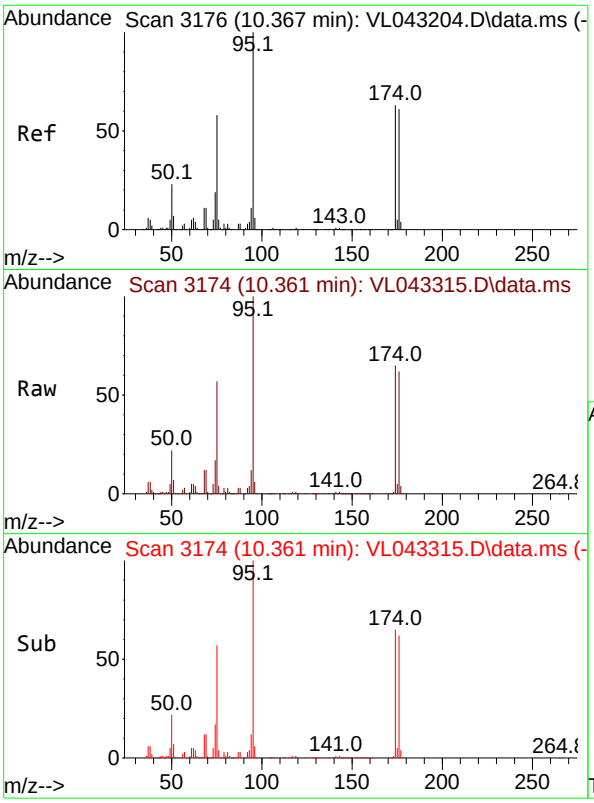


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.865 min Scan# 2712
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion:117 Resp: 261904

Ion	Ratio	Lower	Upper
117	100		
82	64.6	56.1	84.1
119	32.6	25.0	37.6

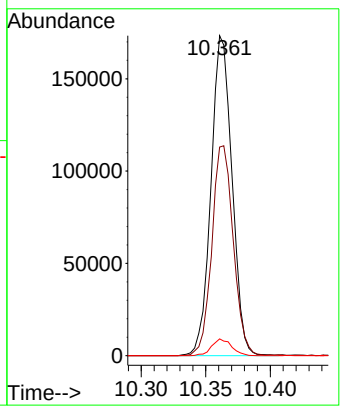




#68
1-Bromo-4-Fluorobenzene
Concen: 10.206 ppbv
RT: 10.361 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 95 Resp: 19592

Ion	Ratio	Lower	Upper
95	100		
174	67.0	50.2	75.2
175	5.0	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

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:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	16-IA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-06	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	12/08/25 17:00	VL120825
74-87-3	Chloromethane	0.74	1.53		1	0.21	1.03	12/08/25 17:00	VL120825
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	12/08/25 17:00	VL120825
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	12/08/25 17:00	VL120825
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	12/08/25 17:00	VL120825
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	12/08/25 17:00	VL120825
75-69-4	Trichlorofluoromethane	0.21	1.18	J	1	0.96	2.81	12/08/25 17:00	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	12/08/25 17:00	VL120825
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	12/08/25 17:00	VL120825
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	12/08/25 17:00	VL120825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	12/08/25 17:00	VL120825
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	12/08/25 17:00	VL120825
67-64-1	Acetone	29.8	70.8	E	1	0.43	1.19	12/08/25 17:00	VL120825
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	12/08/25 17:00	VL120825
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	12/08/25 17:00	VL120825
75-09-2	Methylene Chloride	7.30	25.4		1	0.80	1.74	12/08/25 17:00	VL120825
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	12/08/25 17:00	VL120825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	12/08/25 17:00	VL120825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	12/08/25 17:00	VL120825
78-93-3	2-Butanone	0.44	1.30	J	1	0.18	1.47	12/08/25 17:00	VL120825
56-23-5	Carbon Tetrachloride	0.080	0.50		1	0.19	0.19	12/08/25 17:00	VL120825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	12/08/25 17:00	VL120825
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	12/08/25 17:00	VL120825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	12/08/25 17:00	VL120825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	12/08/25 17:00	VL120825
71-43-2	Benzene	0.20	0.64	J	1	0.26	1.60	12/08/25 17:00	VL120825
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	12/08/25 17:00	VL120825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	12/08/25 17:00	VL120825
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	12/08/25 17:00	VL120825
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	12/08/25 17:00	VL120825
108-10-1	4-Methyl-2-Pentanone	0.11	0.45	J	1	0.41	2.05	12/08/25 17:00	VL120825
108-88-3	Toluene	0.26	0.98	J	1	0.60	1.88	12/08/25 17:00	VL120825
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	12/08/25 17:00	VL120825
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	12/08/25 17:00	VL120825
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	12/08/25 17:00	VL120825
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	12/08/25 17:00	VL120825
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	12/08/25 17:00	VL120825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	12/08/25 17:00	VL120825
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	12/08/25 17:00	VL120825
100-41-4	Ethyl Benzene	0.22	0.96	J	1	0.83	2.17	12/08/25 17:00	VL120825
179601-23-1	m/p-Xylene	0.90	3.91	J	1	1.78	4.34	12/08/25 17:00	VL120825
95-47-6	o-Xylene	0.24	1.04	J	1	0.91	2.17	12/08/25 17:00	VL120825
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	12/08/25 17:00	VL120825
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	12/08/25 17:00	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	12/08/25 17:00	VL120825
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	12/08/25 17:00	VL120825

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	16-IA-1	SDG No.:	Q3799
Lab Sample ID:	Q3799-06	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	12/08/25 17:00	VL120825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	12/08/25 17:00	VL120825
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	12/08/25 17:00	VL120825
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 17:00	VL120825
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 17:00	VL120825
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	12/08/25 17:00	VL120825
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	12/08/25 17:00	VL120825
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	12/08/25 17:00	VL120825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	12/08/25 17:00	VL120825
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	12/08/25 17:00	VL120825
110-54-3	Hexane	2.70	9.52		1	0.56	1.76	12/08/25 17:00	VL120825
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	12/08/25 17:00	VL120825
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	12/08/25 17:00	VL120825
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	12/08/25 17:00	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.4				70 (65) - 130 (135)	104% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	146000							
540-36-3	1,4-Difluorobenzene	393000							
3114-55-4	Chlorobenzene-d5	307000							

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\VL120825\
Data File : VL043316.D
Acq On : 08 Dec 2025 17:00
Operator : SY/MD
Sample : Q3799-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:13:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	146093	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	393021	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	306652	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	232936	10.363	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	8618	0.418	ppbv		92
3) Chlorodifluoromethane	1.473	51	2556m	0.126	ppbv		
4) Chloromethane	1.531	50	5664	0.735	ppbv		98
9) Propene	1.483	41	14559m	1.692	ppbv		
10) Heptane	4.965	43	3437m	0.134	ppbv		
11) Trichlorofluoromethane	1.874	101	4165	0.209	ppbv		86
13) Ethanol	1.722	45	462202	152.750	ppbv		99
15) Acetone	1.832	43	604849	29.800	ppbv		97
17) tert-Butyl alcohol	2.046	59	3190m	0.120	ppbv		
19) Isopropyl Alcohol	1.910	45	7888776	687.812	ppbv	#	38
20) Methylene Chloride	2.062	84	44935	7.301	ppbv		89
26) Hexane	2.826	57	52020	2.710	ppbv	#	72
34) 2-Butanone	2.554	43	12307	0.444	ppbv		99
35) Carbon Tetrachloride	3.755	117	2261m	0.076	ppbv		
36) Benzene	3.648	78	7554	0.201	ppbv		95
50) 4-Methyl-2-Pentanone	5.745	43	4131m	0.106	ppbv		
53) Toluene	6.920	91	11377	0.255	ppbv		100
58) Ethyl Benzene	9.344	91	13162	0.223	ppbv		93
59) m/p-Xylene	9.523	91	42461	0.897	ppbv		97
60) o-Xylene	9.953	91	11276	0.239	ppbv		90
61) Styrene	9.862	104	2498m	0.121	ppbv		

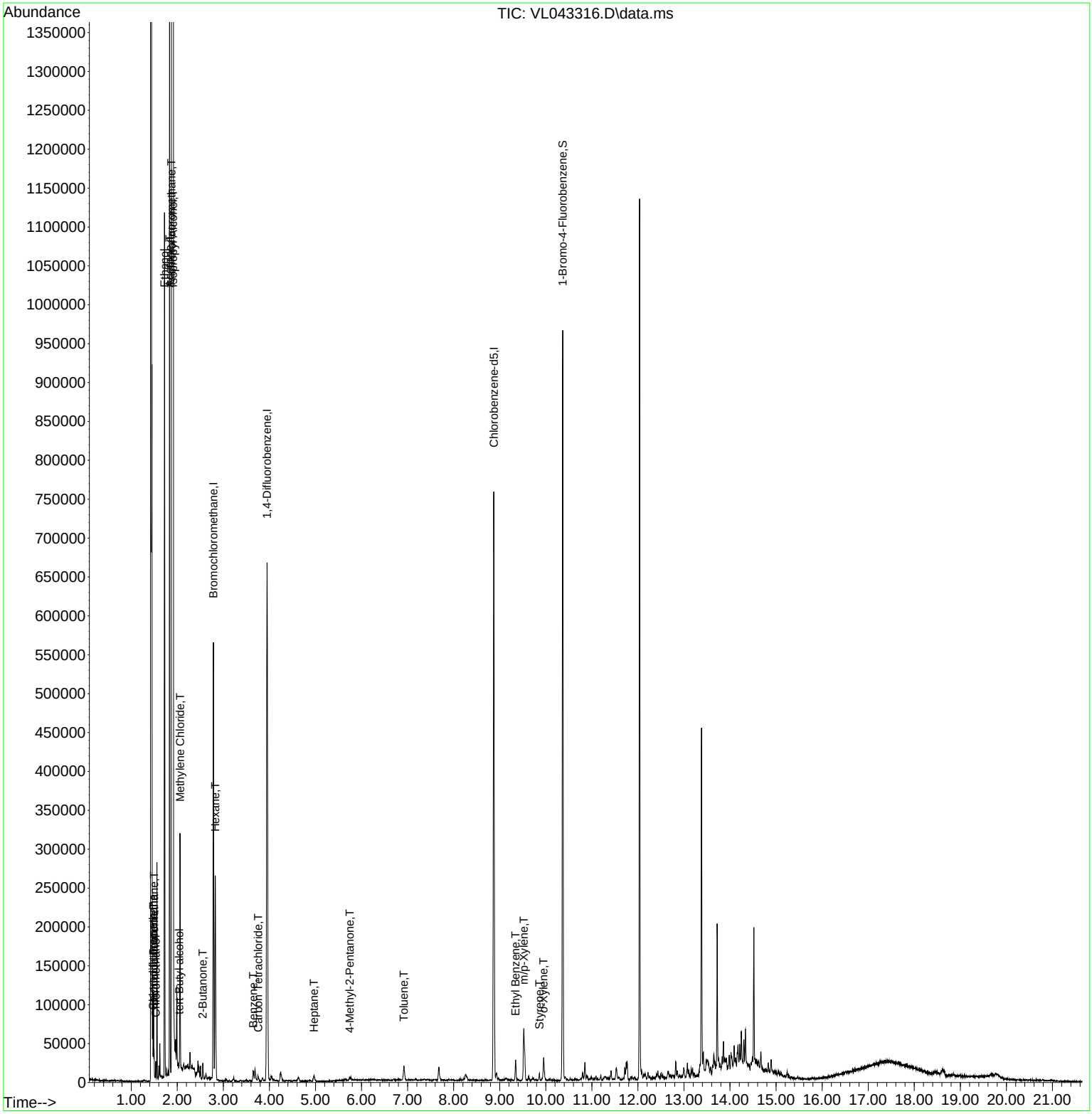
(#) = qualifier out of range (m) = manual integration (+) = signals summed

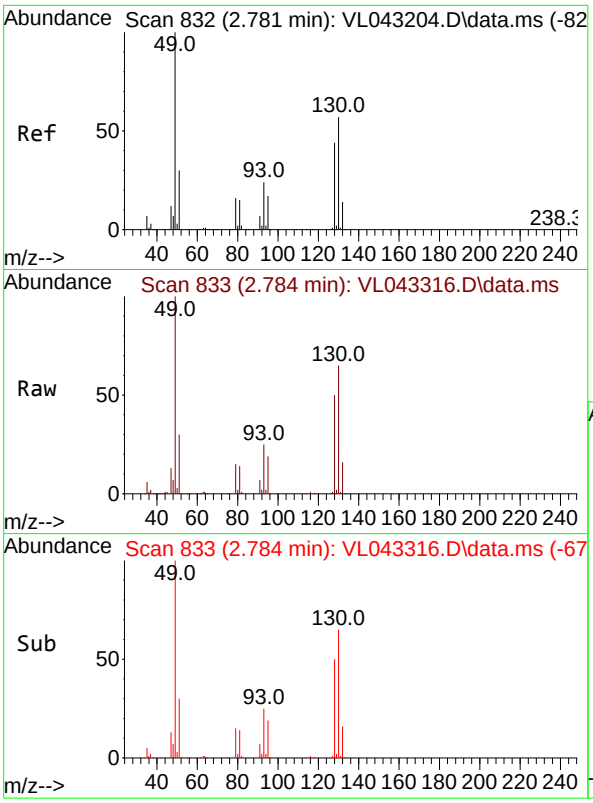
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043316.D
Acq On : 08 Dec 2025 17:00
Operator : SY/MD
Sample : Q3799-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:13:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

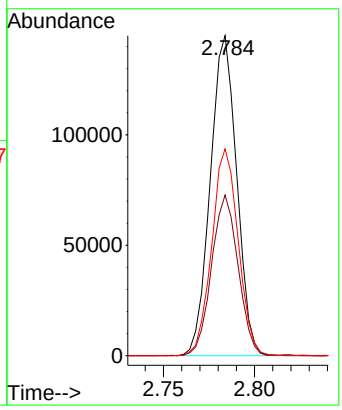




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 49 Resp: 14609

Ion	Ratio	Lower	Upper
49	100		
128	50.3	23.0	69.0
130	64.6	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Manual Integrations
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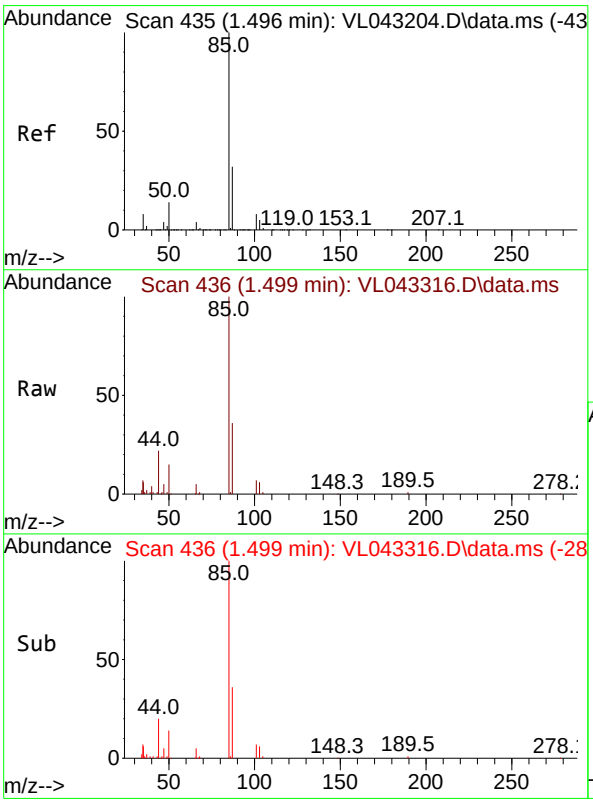
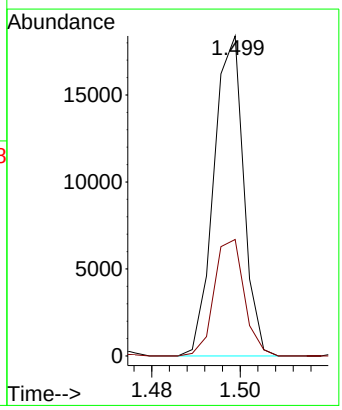
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

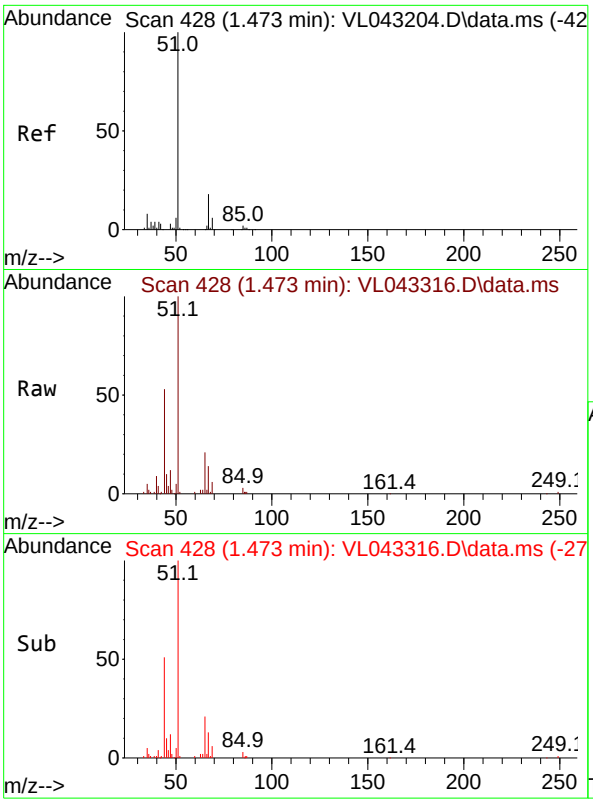


#2
Dichlorodifluoromethane
Concen: 0.418 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 85 Resp: 8618

Ion	Ratio	Lower	Upper
85	100		
87	36.4	25.4	38.2

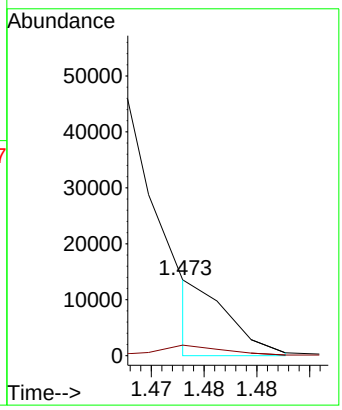




#3
Chlorodifluoromethane
Concen: 0.126 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 51 Resp: 255

Ion	Ratio	Lower	Upper
51	100		
67	39.2	14.9	22.3#



Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

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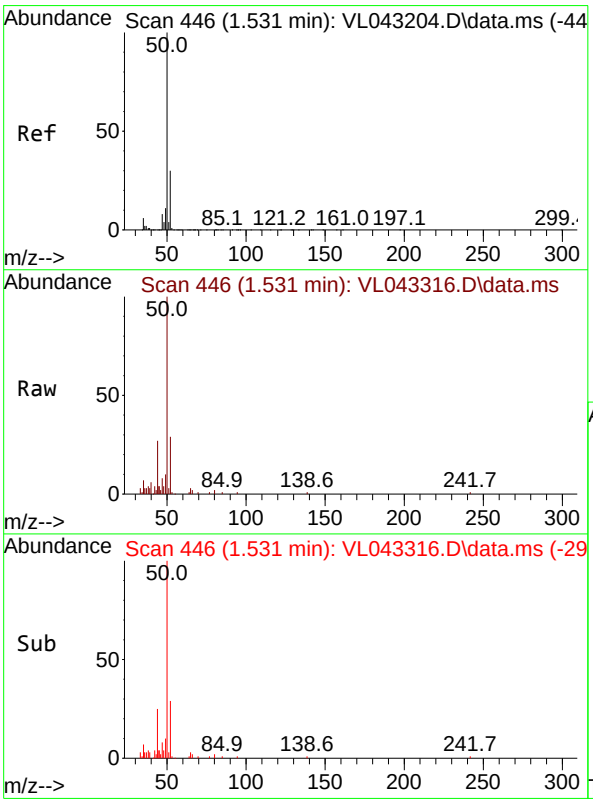
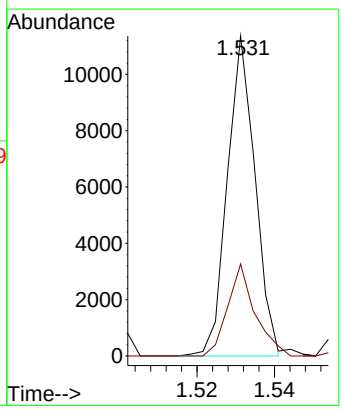
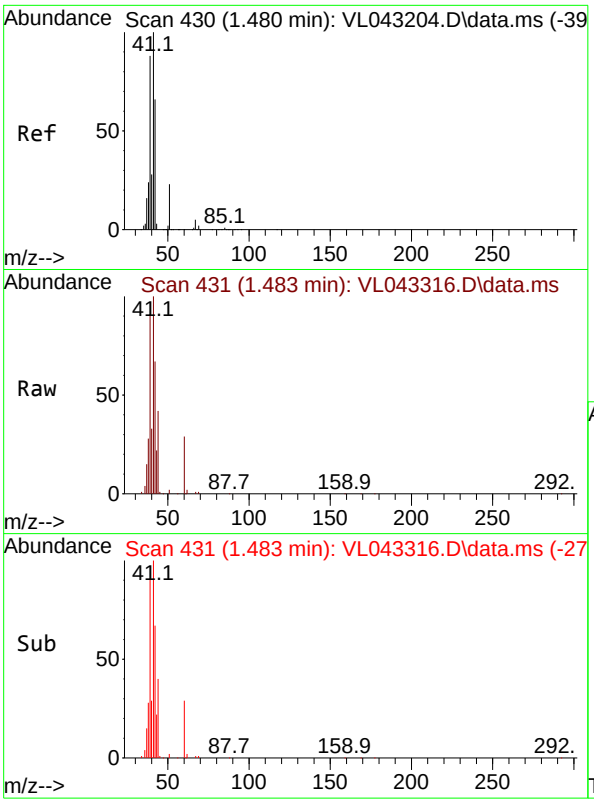


#4
Chloromethane
Concen: 0.735 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 50 Resp: 5664

Ion	Ratio	Lower	Upper
50	100		
52	28.7	24.1	36.1

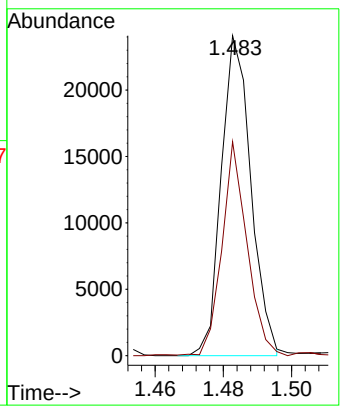




#9
Propene
Concen: 1.692 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 41 Resp: 1455

Ion	Ratio	Lower	Upper
41	100		
42	294.1	3.7	5.5#



Instrument :
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16-IA-1

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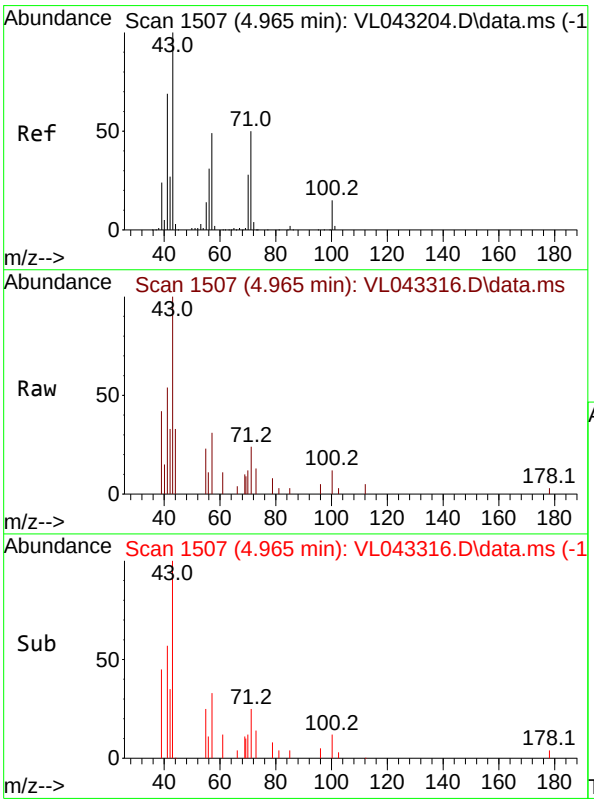
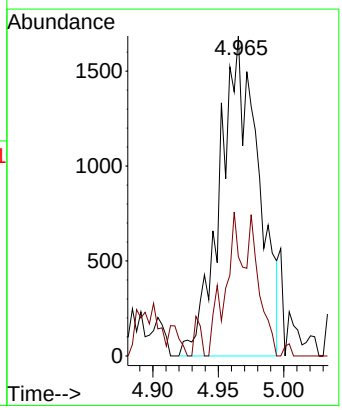
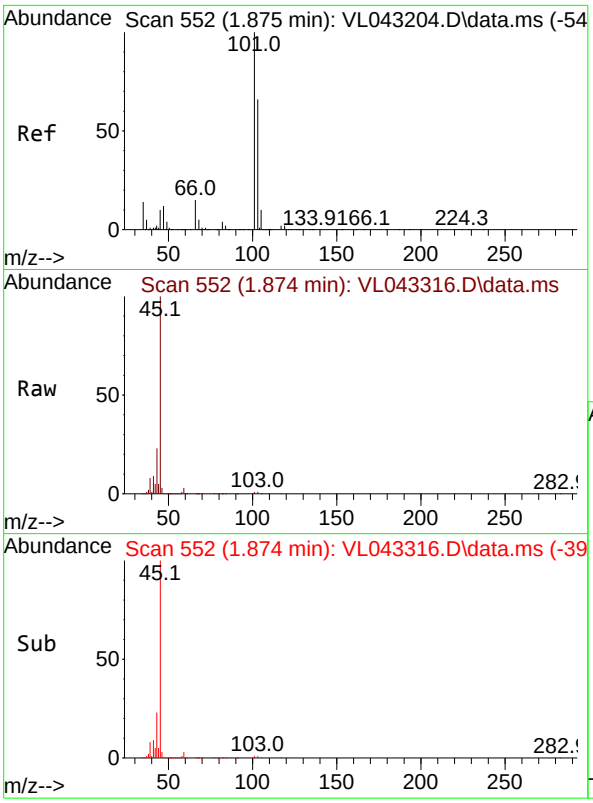


#10
Heptane
Concen: 0.134 ppbv m
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 43 Resp: 3437

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#

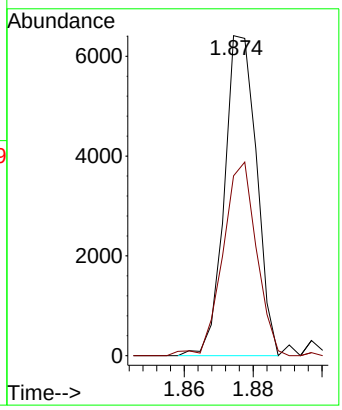




#11
Trichlorofluoromethane
Concen: 0.209 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:101 Resp: 416

Ion	Ratio	Lower	Upper
101	100		
103	54.8	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

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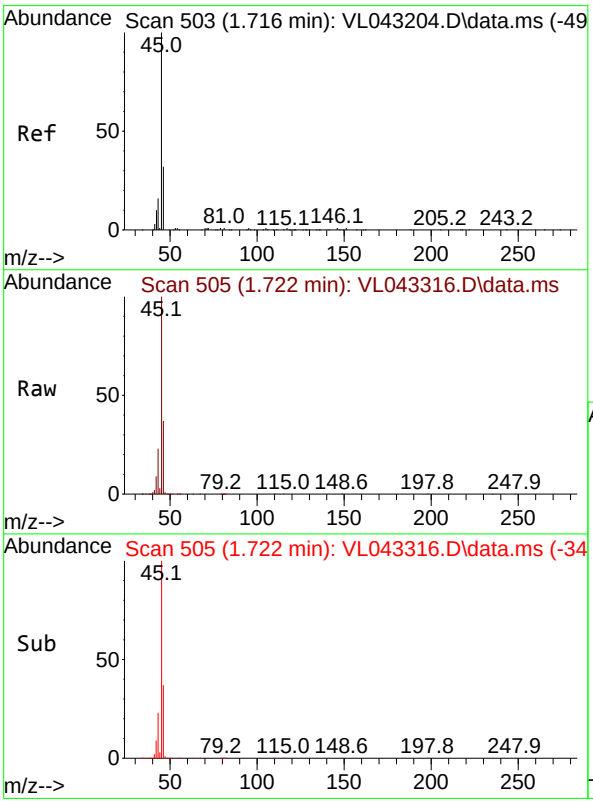
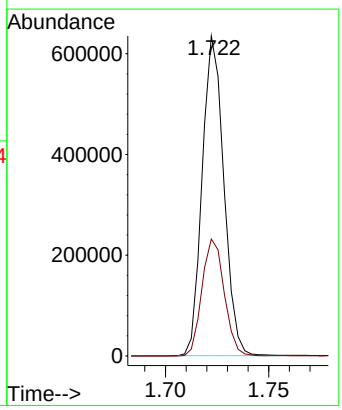
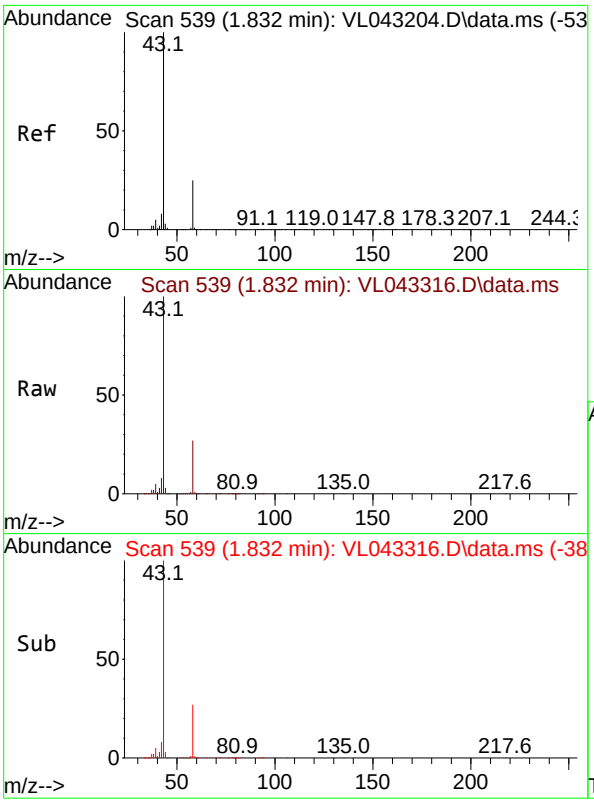


#13
Ethanol
Concen: 152.750 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 45 Resp: 462202

Ion	Ratio	Lower	Upper
45	100		
46	37.9	15.0	59.8





#15
Acetone
Concen: 29.800 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 43 Resp: 60484

Ion	Ratio	Lower	Upper
43	100		
58	27.2	20.7	31.1

Instrument :
MSVOA_L
ClientSampleId :
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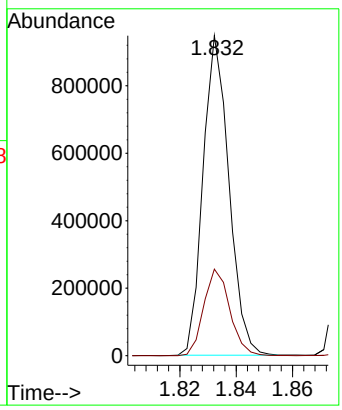
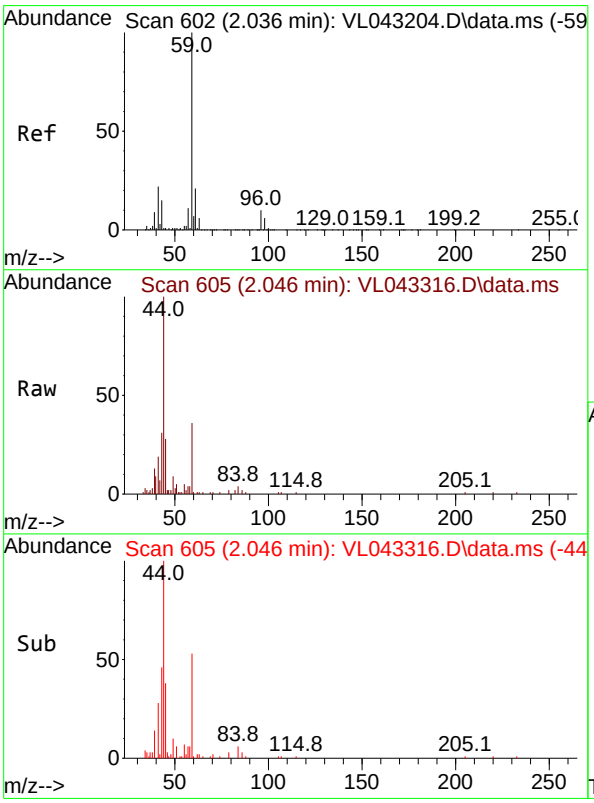
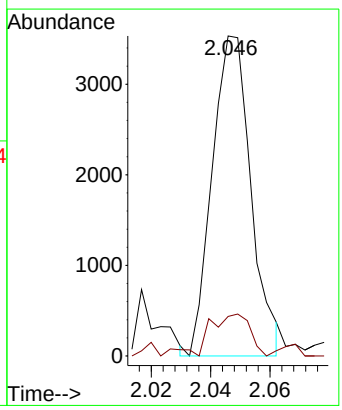


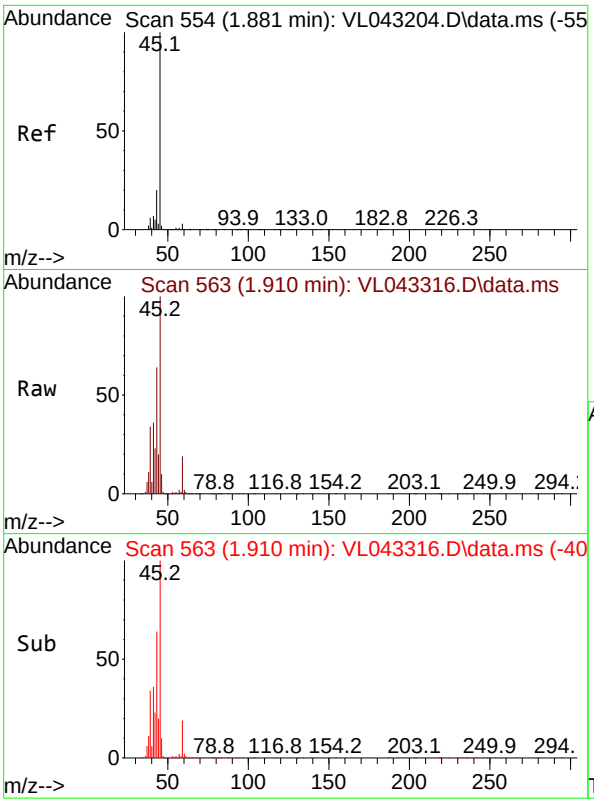


#17
tert-Butyl alcohol
Concen: 0.120 ppbv m
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 59 Resp: 3190

Ion	Ratio	Lower	Upper
59	100		
57	2730.3	9.0	13.4#

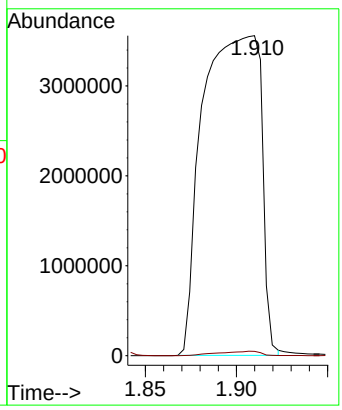




#19
Isopropyl Alcohol
Concen: 687.812 ppbv
RT: 1.910 min Scan# 5
Delta R.T. 0.029 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 45 Resp: 788877

Ion	Ratio	Lower	Upper
45	100		
58	1.0	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

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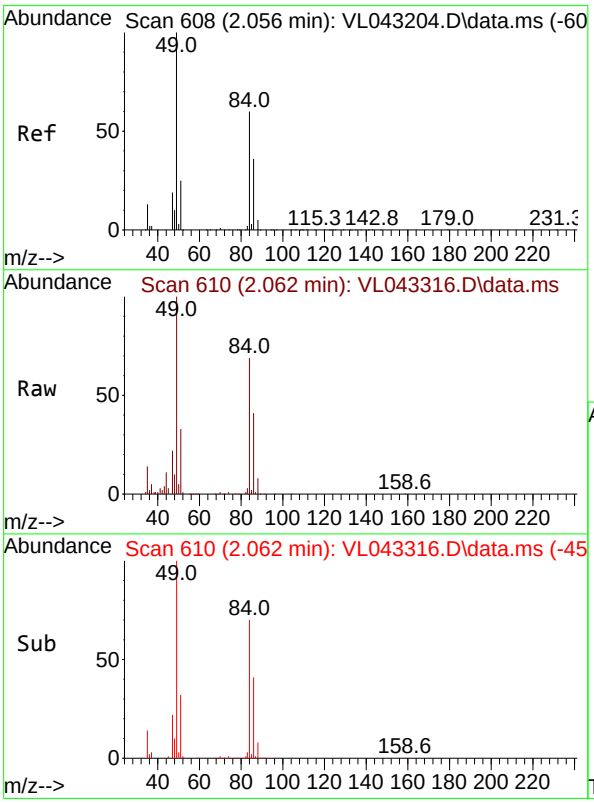
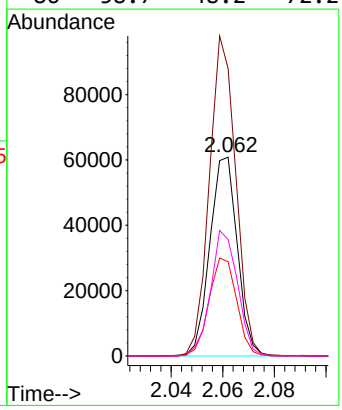
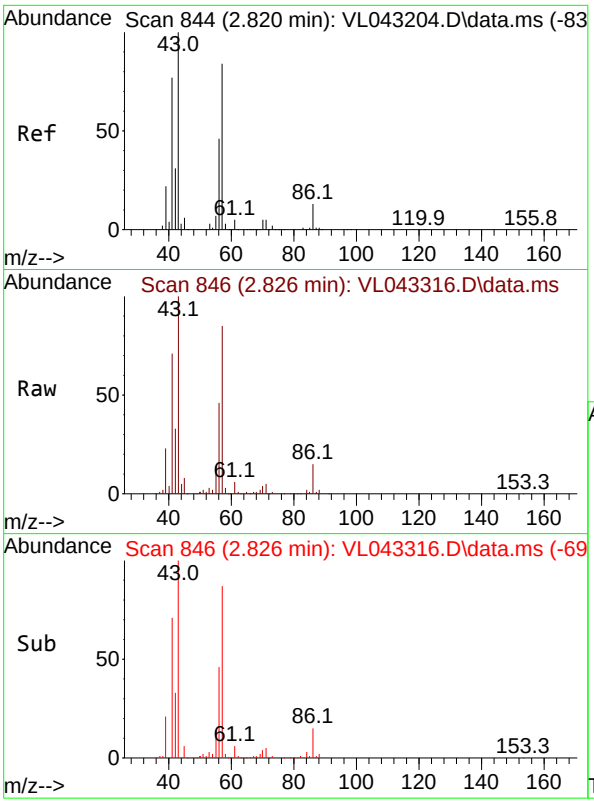


#20
Methylene Chloride
Concen: 7.301 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 84 Resp: 44935

Ion	Ratio	Lower	Upper
84	100		
49	144.4	132.9	199.3
51	47.5	34.8	52.2
86	58.7	48.2	72.2

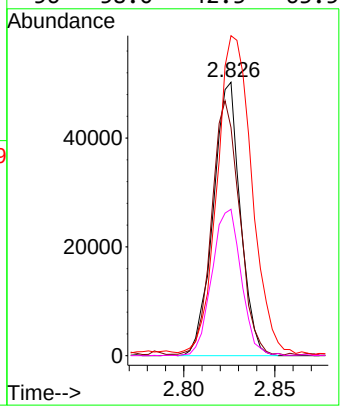




#26
Hexane
Concen: 2.710 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 57 Resp: 5202

Ion	Ratio	Lower	Upper
57	100		
41	97.1	74.6	111.8
43	154.4	179.0	268.4
56	58.0	42.3	63.5



Instrument :
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ClientSampleId :
16-IA-1

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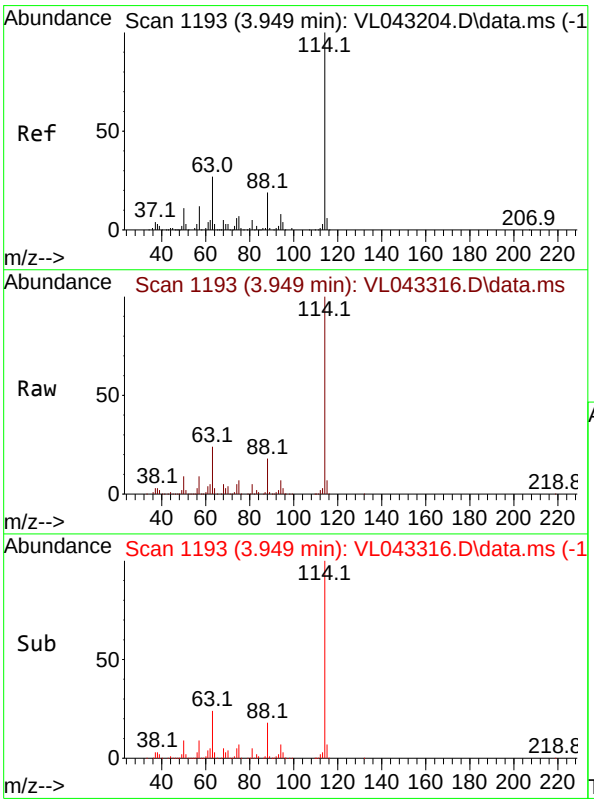
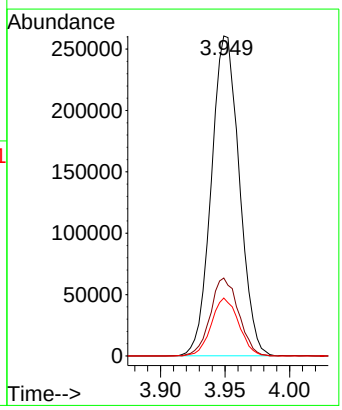
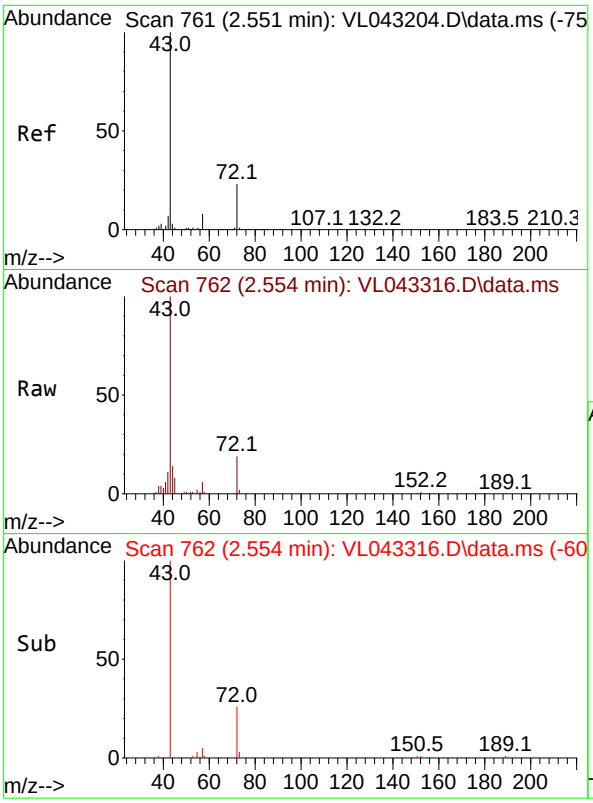


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:114 Resp: 393021

Ion	Ratio	Lower	Upper
114	100		
63	24.6	21.0	31.6
88	17.7	14.9	22.3





#34
2-Butanone
Concen: 0.444 ppbv
RT: 2.554 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 43 Resp: 1230

Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.1	27.1

Instrument :
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ClientSampleId :
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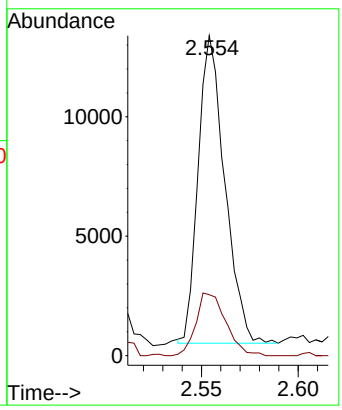
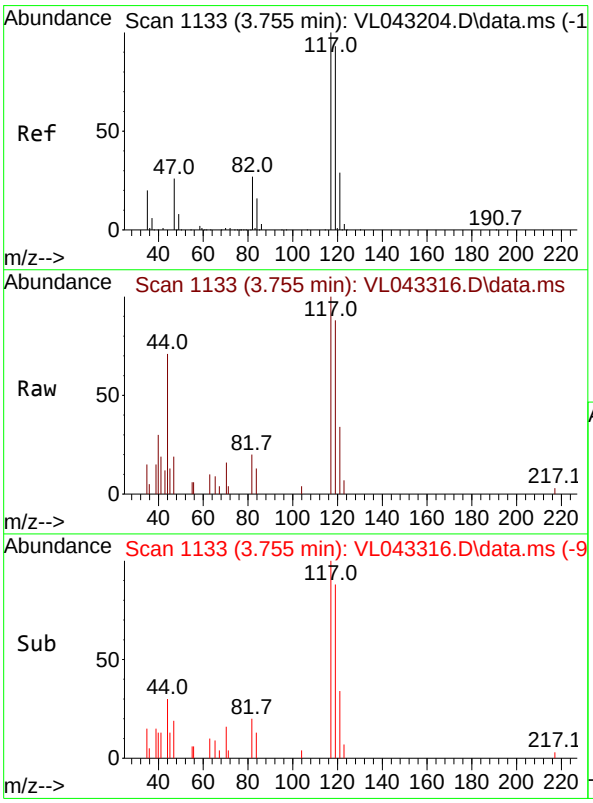
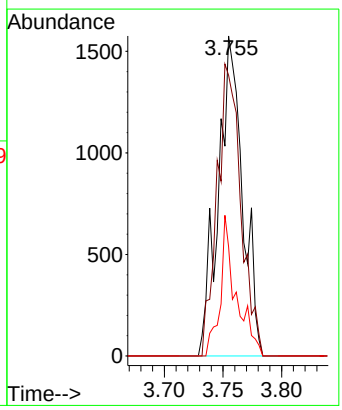


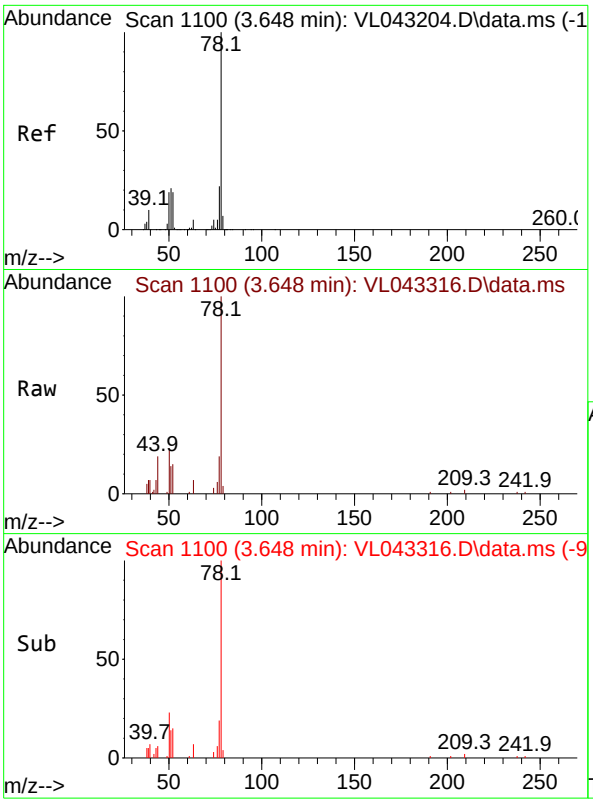


#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:117 Resp: 2261

Ion	Ratio	Lower	Upper
117	100		
119	87.7	74.6	112.0
121	34.1	23.2	34.8

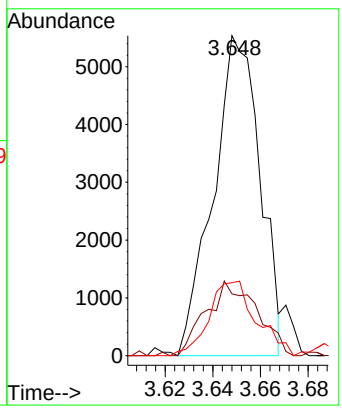




#36
Benzene
Concen: 0.201 ppbv
RT: 3.648 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 78 Resp: 755

Ion	Ratio	Lower	Upper
78	100		
77	19.3	17.5	26.3
50	21.4	15.5	23.3



Instrument :
MSVOA_L
ClientSampleId :
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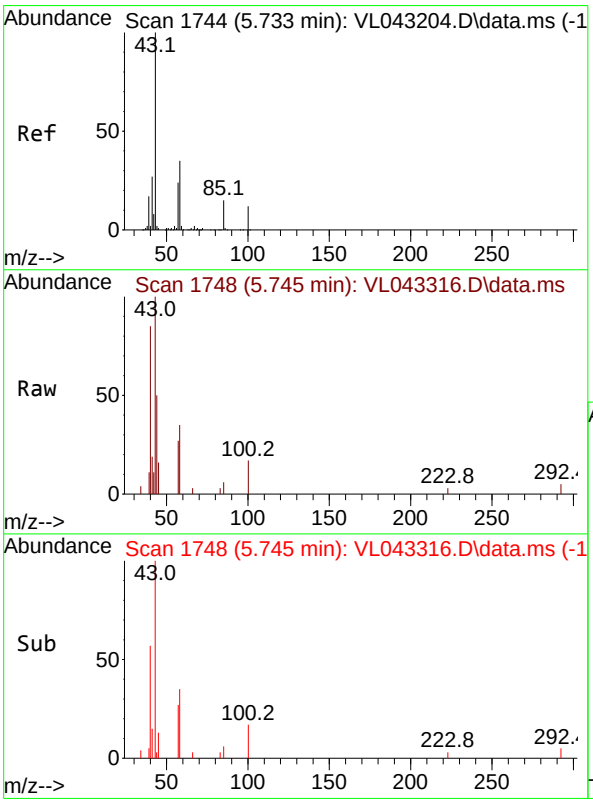
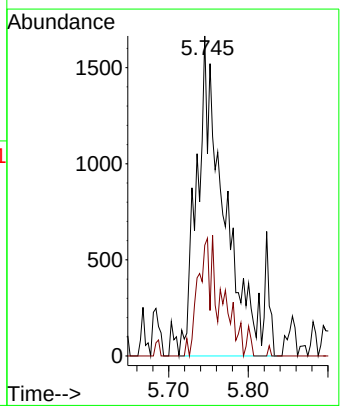
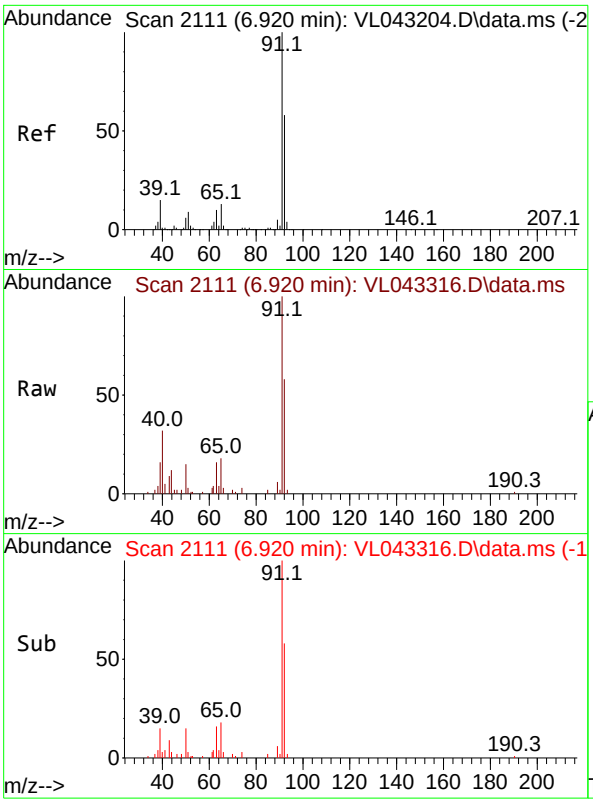


#50
4-Methyl-2-Pentanone
Concen: 0.106 ppbv m
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 43 Resp: 4131

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#

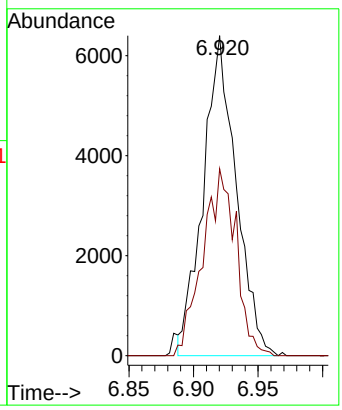




#53
Toluene
Concen: 0.255 ppbv
RT: 6.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 91 Resp: 1137

Ion	Ratio	Lower	Upper
91	100		
92	59.0	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

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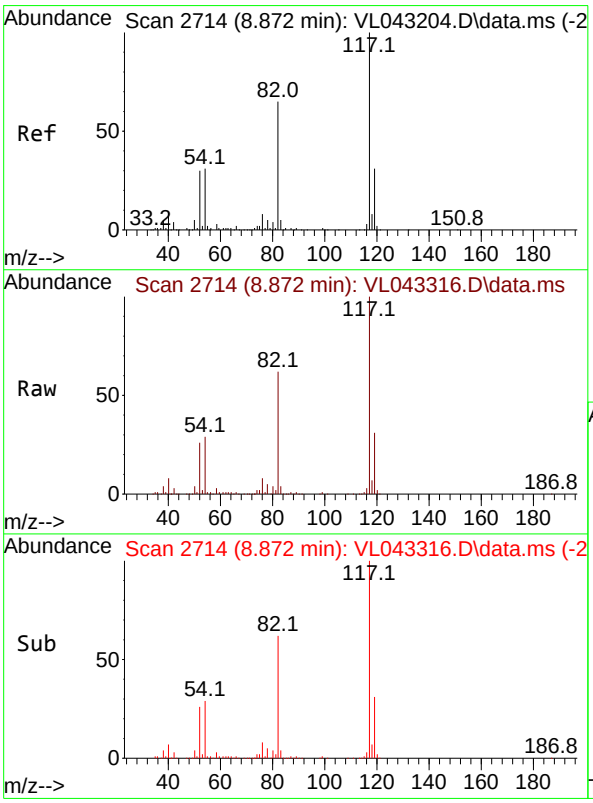
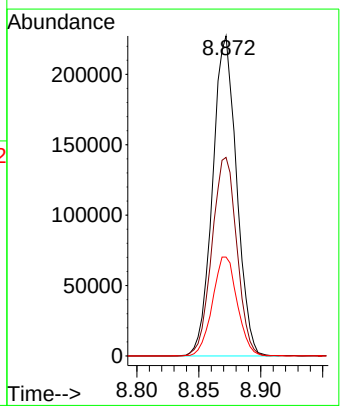
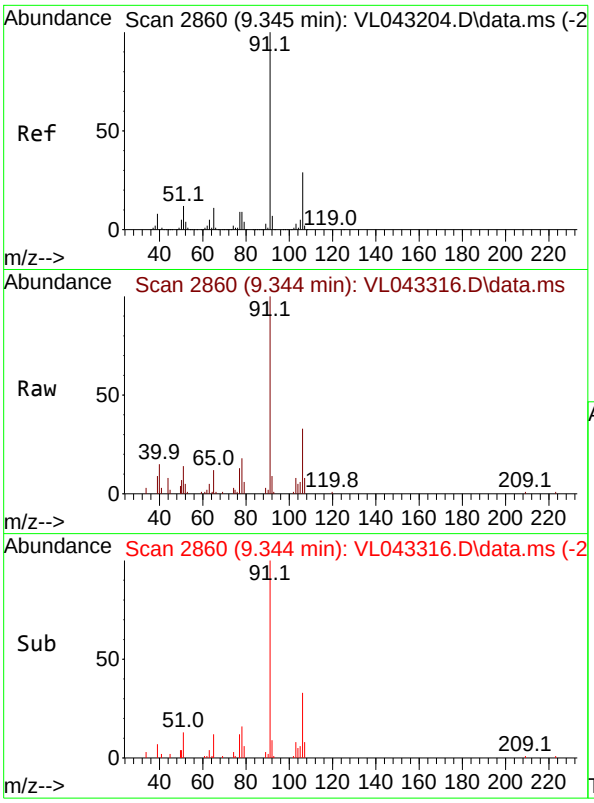


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:117 Resp: 306652

Ion	Ratio	Lower	Upper
117	100		
82	64.3	56.1	84.1
119	32.1	25.0	37.6

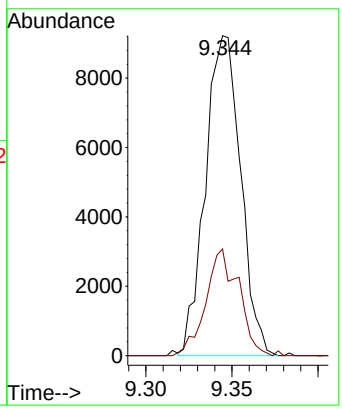




#58
Ethyl Benzene
Concen: 0.223 ppbv
RT: 9.344 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 91 Resp: 1316

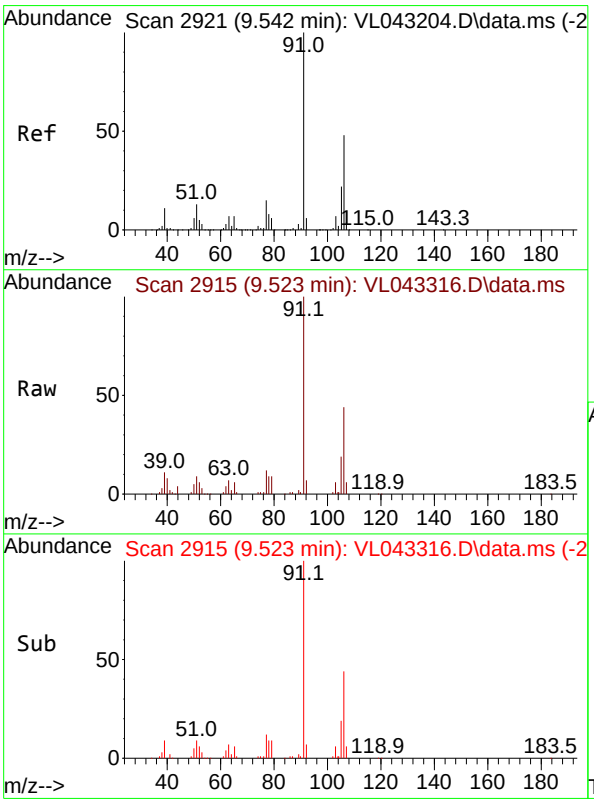
Ion	Ratio	Lower	Upper
91	100		
106	32.4	22.8	34.2



Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Manual Integrations
APPROVED

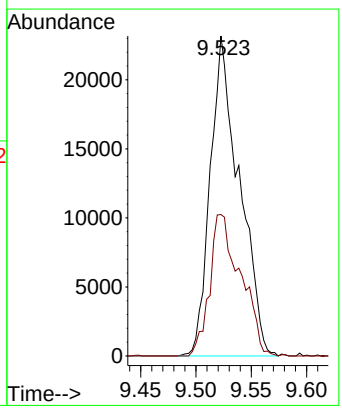
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

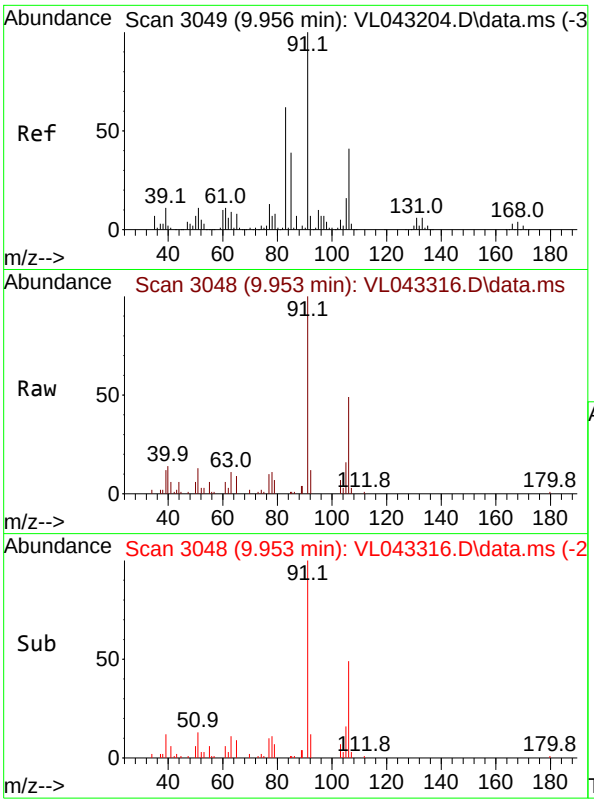


#59
m/p-Xylene
Concen: 0.897 ppbv
RT: 9.523 min Scan# 2915
Delta R.T. -0.020 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 91 Resp: 42461

Ion	Ratio	Lower	Upper
91	100		
106	47.0	36.1	54.1

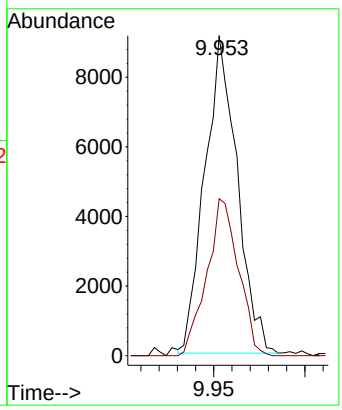




#60
o-Xylene
Concen: 0.239 ppbv
RT: 9.953 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 91 Resp: 1127

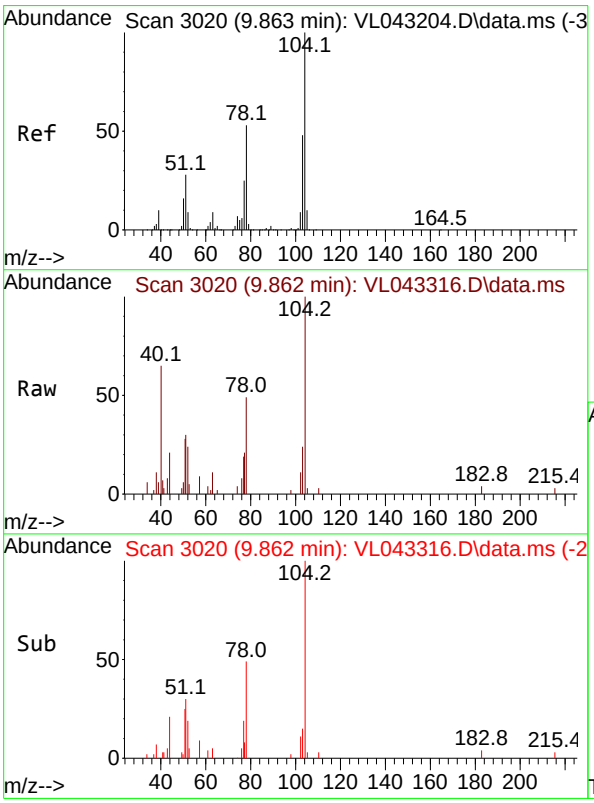
Ion	Ratio	Lower	Upper
91	100		
106	48.2	20.9	62.8



Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Manual Integrations
APPROVED

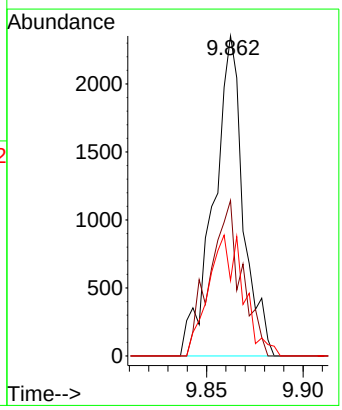
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

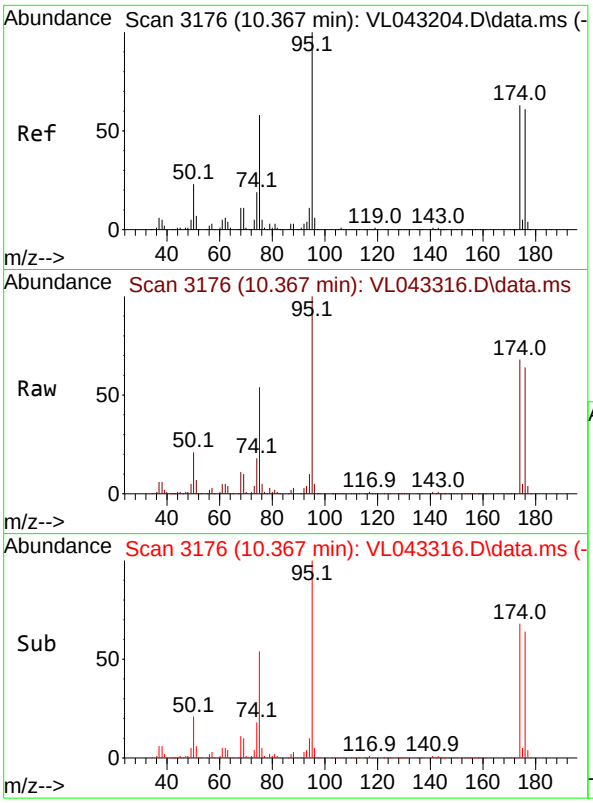


#61
Styrene
Concen: 0.121 ppbv m
RT: 9.862 min Scan# 3020
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:104 Resp: 2498

Ion	Ratio	Lower	Upper
104	100		
78	51.9	42.1	63.1
103	44.7	37.2	55.8

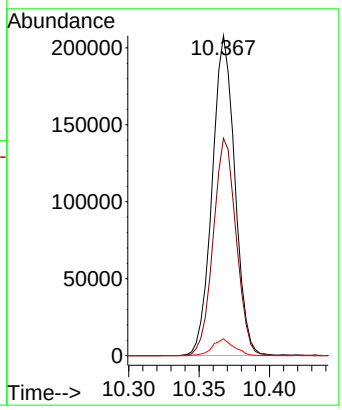




#68
1-Bromo-4-Fluorobenzene
Concen: 10.363 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 95 Resp: 23293

Ion	Ratio	Lower	Upper
95	100		
174	68.8	50.2	75.2
175	5.0	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

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:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	16-IA-1DL	SDG No.:	Q3799
Lab Sample ID:	Q3799-06DL	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	12/08/25 21:56	VL120825
74-87-3	Chloromethane	0.98	2.02	UD	10	2.02	10.3	12/08/25 21:56	VL120825
75-01-4	Vinyl Chloride	0.25	0.64	UD	10	0.64	0.77	12/08/25 21:56	VL120825
74-83-9	Bromomethane	0.77	2.99	UD	10	2.99	19.4	12/08/25 21:56	VL120825
75-00-3	Chloroethane	1.50	3.96	UD	10	3.96	13.2	12/08/25 21:56	VL120825
109-99-9	Tetrahydrofuran	0.80	2.36	UD	10	2.36	14.8	12/08/25 21:56	VL120825
75-69-4	Trichlorofluoromethane	1.70	9.55	UD	10	9.55	28.1	12/08/25 21:56	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	10.7	UD	10	10.7	38.3	12/08/25 21:56	VL120825
76-14-2	Dichlorotetrafluoroethane	1.50	10.5	UD	10	10.5	35.0	12/08/25 21:56	VL120825
75-65-0	tert-Butyl alcohol	1.60	4.85	UD	10	4.85	15.2	12/08/25 21:56	VL120825
142-82-5	Heptane	1.70	6.97	UD	10	6.97	20.5	12/08/25 21:56	VL120825
75-35-4	1,1-Dichloroethene	1.50	5.95	UD	10	5.95	19.8	12/08/25 21:56	VL120825
67-64-1	Acetone	35.0	83.1	D	10	4.28	11.9	12/08/25 21:56	VL120825
75-15-0	Carbon Disulfide	0.80	2.49	UD	10	2.49	15.6	12/08/25 21:56	VL120825
1634-04-4	Methyl tert-Butyl Ether	2.30	8.29	UD	10	8.29	18.0	12/08/25 21:56	VL120825
75-09-2	Methylene Chloride	9.10	31.6	D	10	7.99	17.4	12/08/25 21:56	VL120825
156-60-5	trans-1,2-Dichloroethene	1.20	4.76	UD	10	4.76	19.8	12/08/25 21:56	VL120825
75-34-3	1,1-Dichloroethane	1.30	5.26	UD	10	5.26	20.2	12/08/25 21:56	VL120825
110-82-7	Cyclohexane	2.20	7.57	UD	10	7.57	17.2	12/08/25 21:56	VL120825
78-93-3	2-Butanone	0.56	1.65	UD	10	1.65	14.8	12/08/25 21:56	VL120825
56-23-5	Carbon Tetrachloride	0.25	1.57	UD	10	1.57	1.89	12/08/25 21:56	VL120825
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	10	3.93	19.8	12/08/25 21:56	VL120825
67-66-3	Chloroform	0.96	4.69	UD	10	4.69	24.4	12/08/25 21:56	VL120825
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	10	0.87	1.64	12/08/25 21:56	VL120825
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	10	6.54	23.4	12/08/25 21:56	VL120825
71-43-2	Benzene	0.79	2.52	UD	10	2.52	16.0	12/08/25 21:56	VL120825
107-06-2	1,2-Dichloroethane	0.93	3.76	UD	10	3.76	20.2	12/08/25 21:56	VL120825
79-01-6	Trichloroethene	0.24	1.29	UD	10	1.29	1.61	12/08/25 21:56	VL120825
78-87-5	1,2-Dichloropropane	1.30	6.01	UD	10	6.01	23.1	12/08/25 21:56	VL120825
75-27-4	Bromodichloromethane	0.63	4.22	UD	10	4.22	33.5	12/08/25 21:56	VL120825
108-10-1	4-Methyl-2-Pentanone	0.97	3.98	UD	10	3.98	20.5	12/08/25 21:56	VL120825
108-88-3	Toluene	1.60	6.03	UD	10	6.03	18.8	12/08/25 21:56	VL120825
10061-02-6	t-1,3-Dichloropropene	1.50	6.81	UD	10	6.81	22.7	12/08/25 21:56	VL120825
10061-01-5	cis-1,3-Dichloropropene	1.10	4.99	UD	10	4.99	22.7	12/08/25 21:56	VL120825
79-00-5	1,1,2-Trichloroethane	0.81	4.42	UD	10	4.42	27.3	12/08/25 21:56	VL120825
124-48-1	Dibromochloromethane	0.85	7.24	UD	10	7.24	42.6	12/08/25 21:56	VL120825
106-93-4	1,2-Dibromoethane	0.85	6.53	UD	10	6.53	7.69	12/08/25 21:56	VL120825
127-18-4	Tetrachloroethene	0.15	1.02	UD	10	1.02	2.03	12/08/25 21:56	VL120825
108-90-7	Chlorobenzene	0.77	3.55	UD	10	3.55	23.0	12/08/25 21:56	VL120825
100-41-4	Ethyl Benzene	1.90	8.25	UD	10	8.25	21.7	12/08/25 21:56	VL120825
179601-23-1	m/p-Xylene	4.10	17.8	UD	10	17.8	43.4	12/08/25 21:56	VL120825
95-47-6	o-Xylene	2.10	9.12	UD	10	9.12	21.7	12/08/25 21:56	VL120825
100-42-5	Styrene	1.60	6.81	UD	10	6.81	21.3	12/08/25 21:56	VL120825
75-25-2	Bromoform	0.48	4.96	UD	10	4.96	51.7	12/08/25 21:56	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	0.18	1.24	UD	10	1.24	2.06	12/08/25 21:56	VL120825
95-49-8	2-Chlorotoluene	1.70	8.80	UD	10	8.80	25.9	12/08/25 21:56	VL120825

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	12/03/25
Project:	CHADWICK SQUARE	Date Received:	12/04/25
Client Sample ID:	16-IA-1DL	SDG No.:	Q3799
Lab Sample ID:	Q3799-06DL	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	12/08/25 21:56	VL120825
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	UD	10	8.85	24.6	12/08/25 21:56	VL120825
541-73-1	1,3-Dichlorobenzene	0.54	3.25	UD	10	3.25	30.1	12/08/25 21:56	VL120825
106-46-7	1,4-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	12/08/25 21:56	VL120825
95-50-1	1,2-Dichlorobenzene	1.30	7.82	UD	10	7.82	30.1	12/08/25 21:56	VL120825
120-82-1	1,2,4-Trichlorobenzene	2.10	15.6	UD	10	15.6	37.1	12/08/25 21:56	VL120825
87-68-3	Hexachloro-1,3-Butadiene	1.30	13.9	UD	10	13.9	53.3	12/08/25 21:56	VL120825
106-99-0	1,3-Butadiene	0.51	1.13	UD	10	1.13	11.1	12/08/25 21:56	VL120825
91-20-3	Naphthalene	0.13	0.68	UD	10	0.68	5.24	12/08/25 21:56	VL120825
622-96-8	4-Ethyltoluene	2.10	10.3	UD	10	10.3	24.6	12/08/25 21:56	VL120825
110-54-3	Hexane	2.40	8.46	JD	10	5.64	17.6	12/08/25 21:56	VL120825
107-05-1	Allyl Chloride	1.10	3.44	UD	10	3.44	15.7	12/08/25 21:56	VL120825
123-91-1	1,4-Dioxane	2.20	7.93	UD	10	7.93	18.0	12/08/25 21:56	VL120825
80-62-6	Methyl Methacrylate	1.40	5.73	UD	10	5.73	20.5	12/08/25 21:56	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.90				70 (65) - 130 (135)	99% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	128000							
540-36-3	1,4-Difluorobenzene	317000							
3114-55-4	Chlorobenzene-d5	248000							

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\VL120825\
Data File : VL043324.D
Acq On : 08 Dec 2025 21:56
Operator : SY/MD
Sample : Q3799-06DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1DL

Quant Time: Dec 09 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

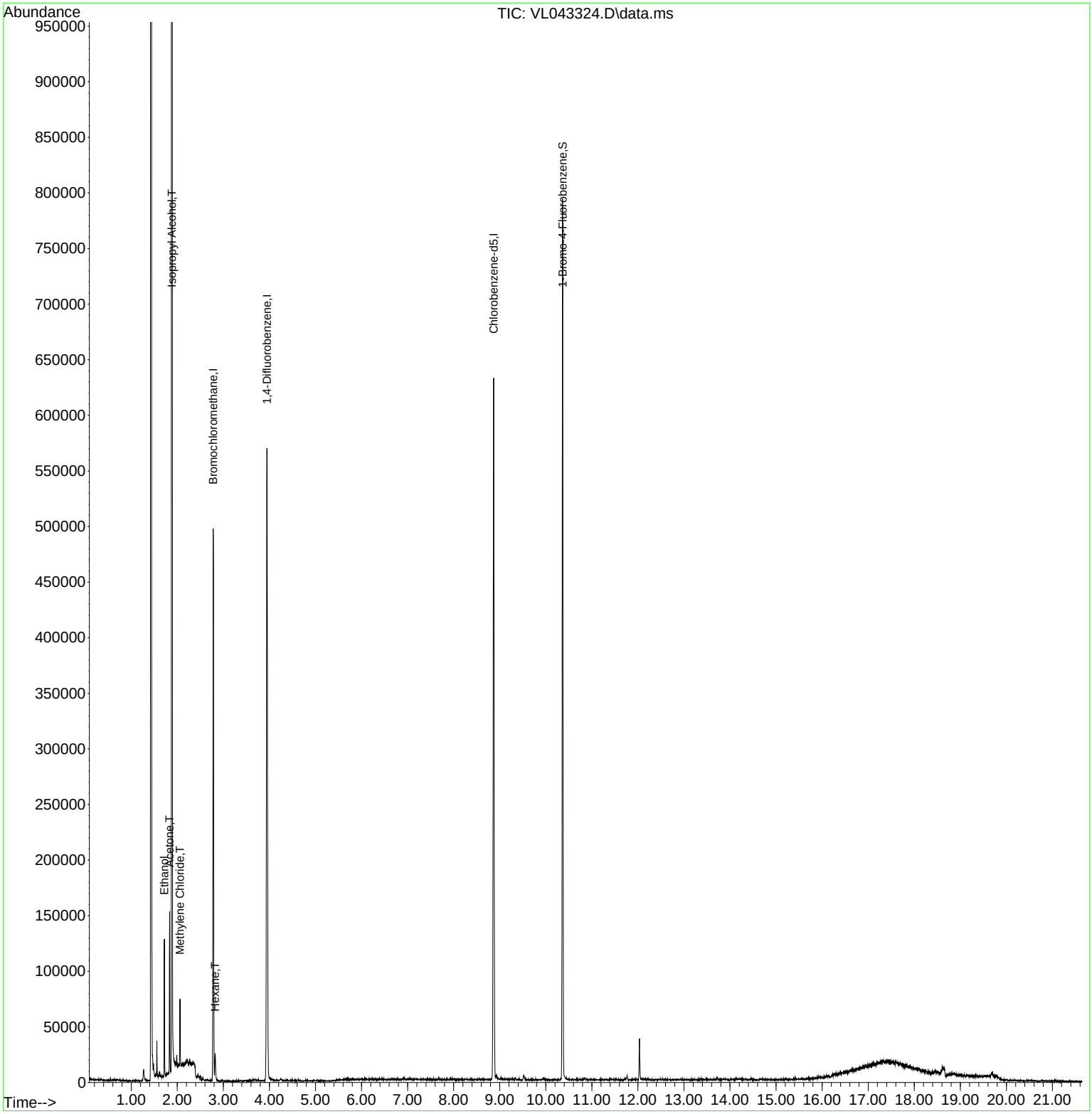
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.780	49	127959	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.946	114	316604	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.869	117	248177	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.364	95	180171	9.904	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.000%				
Target Compounds							Qvalue
13) Ethanol	1.719	45	40793	15.392	ppbv		98
15) Acetone	1.832	43	62169	3.497	ppbv		98
19) Isopropyl Alcohol	1.884	45	2523636	251.215	ppbv	#	37
20) Methylene Chloride	2.059	84	8511	0.911	ppbv		88
26) Hexane	2.819	57	3985	0.237	ppbv	#	68

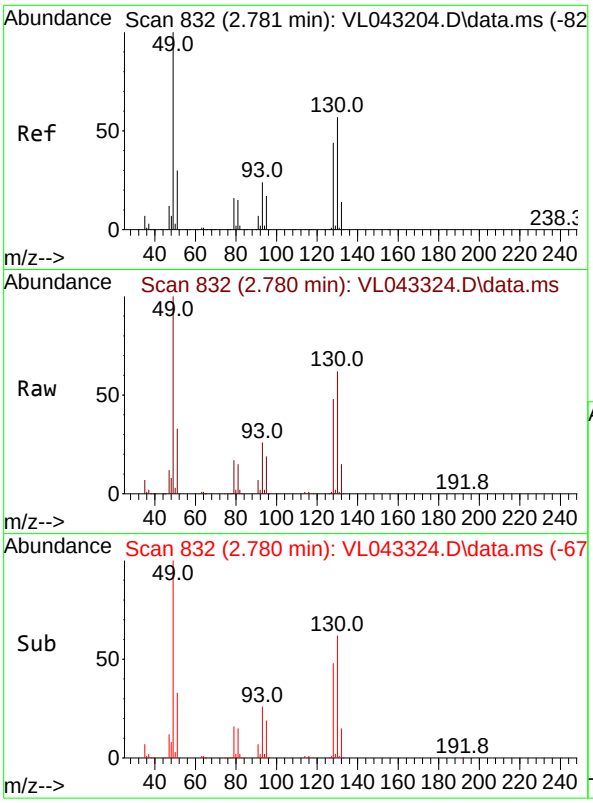
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043324.D
Acq On : 08 Dec 2025 21:56
Operator : SY/MD
Sample : Q3799-06DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1DL

Quant Time: Dec 09 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



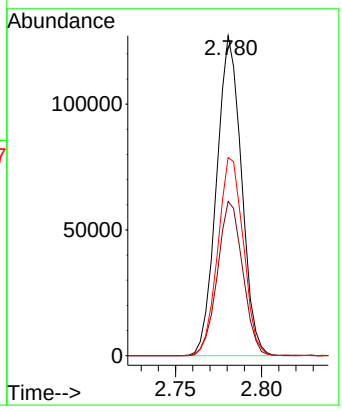


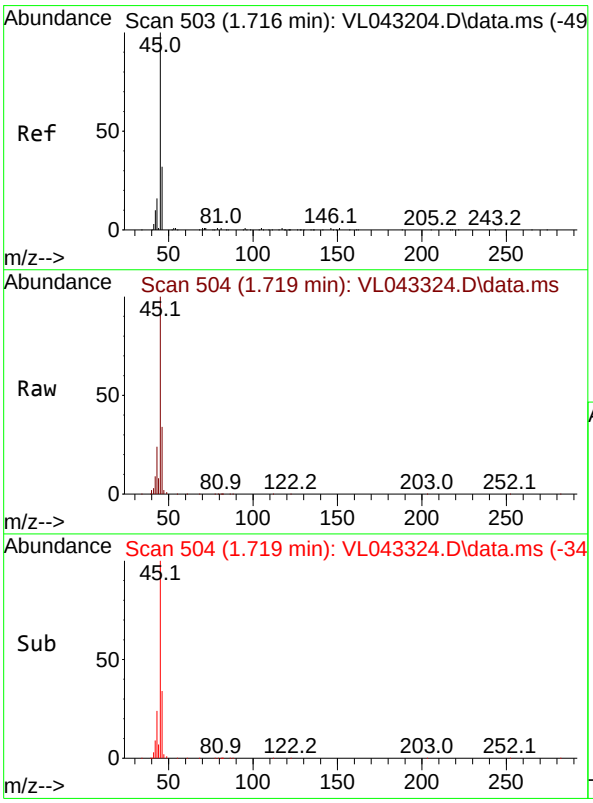
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1DL

Tgt Ion: 49 Resp: 127959

Ion	Ratio	Lower	Upper
49	100		
128	49.0	23.0	69.0
130	63.6	29.9	89.7

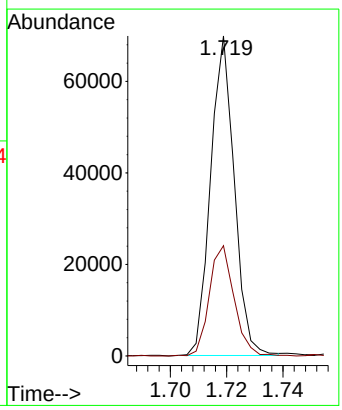


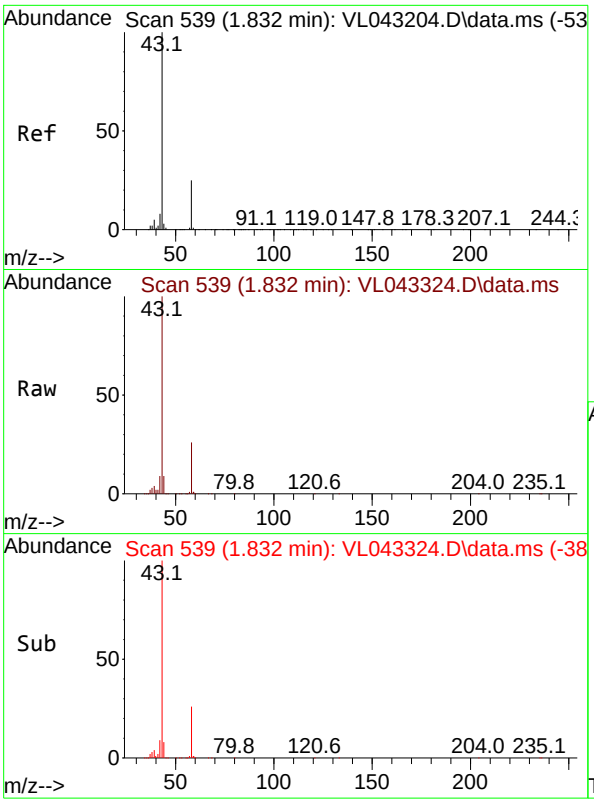


#13
Ethanol
Concen: 15.392 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Tgt Ion: 45 Resp: 40793

Ion	Ratio	Lower	Upper
45	100		
46	36.1	15.0	59.8



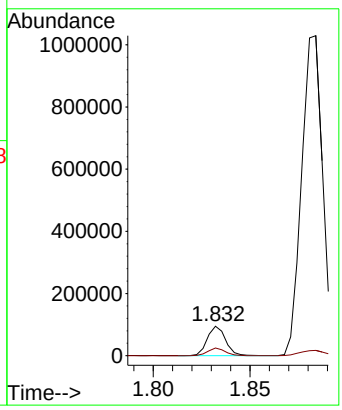


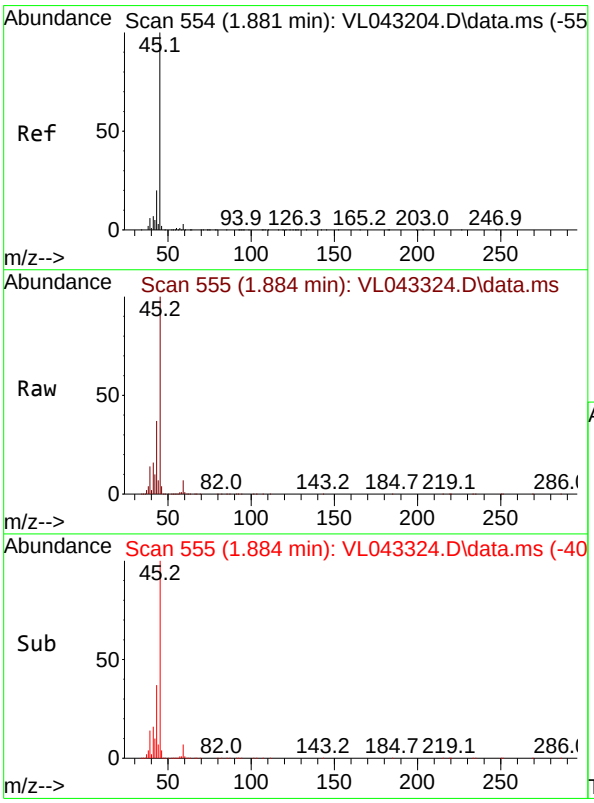
#15
Acetone
Concen: 3.497 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1DL

Tgt Ion: 43 Resp: 62169

Ion	Ratio	Lower	Upper
43	100		
58	25.0	20.7	31.1

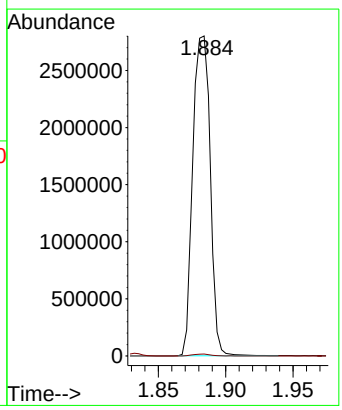


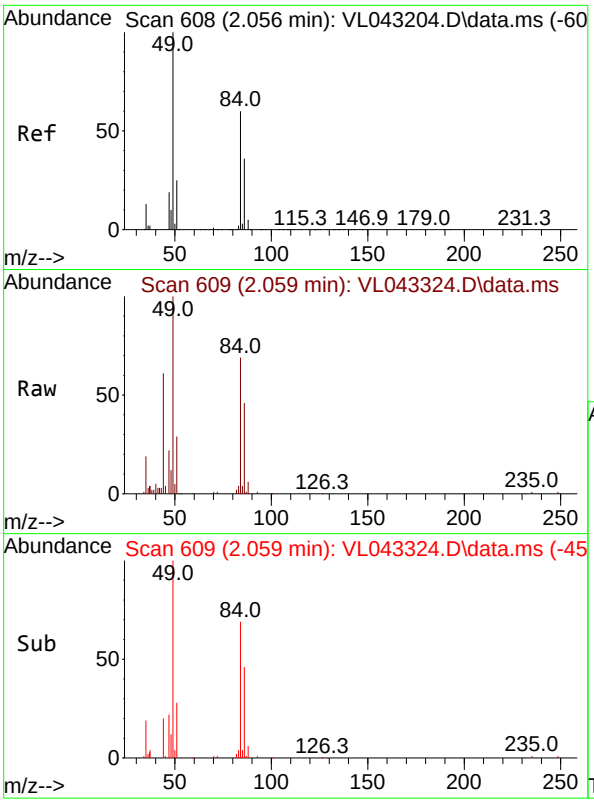


#19
Isopropyl Alcohol
Concen: 251.215 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Tgt Ion: 45 Resp: 2523636

Ion	Ratio	Lower	Upper
45	100		
58	0.6	31.3	46.9#



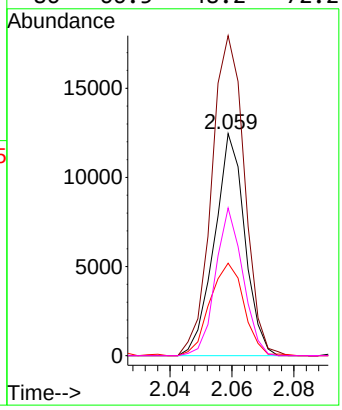


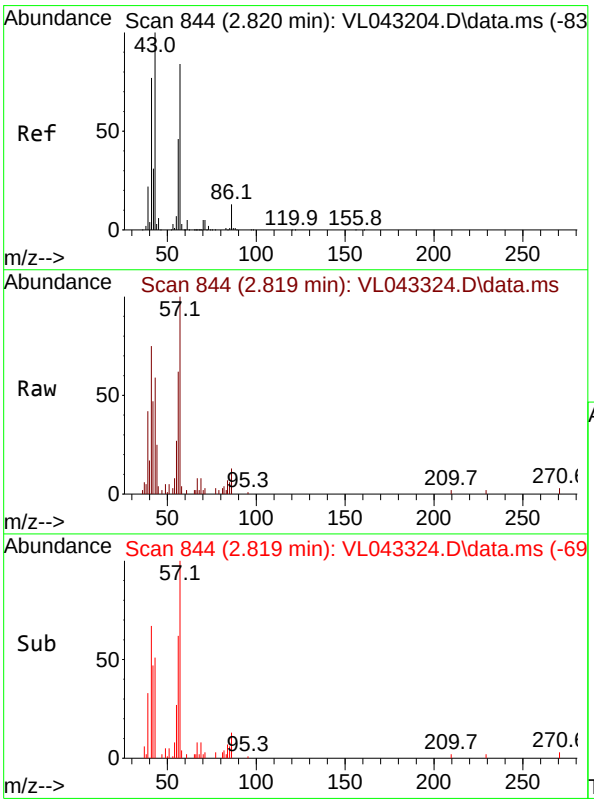
#20
Methylene Chloride
Concen: 0.911 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1DL

Tgt Ion: 84 Resp: 8511

Ion	Ratio	Lower	Upper
84	100		
49	144.1	132.9	199.3
51	41.6	34.8	52.2
86	66.5	48.2	72.2

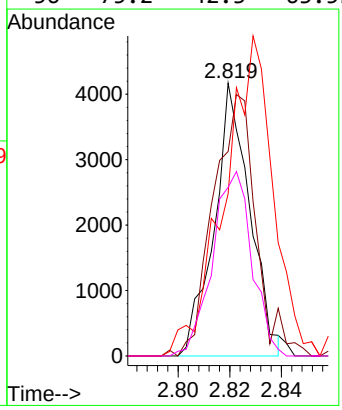


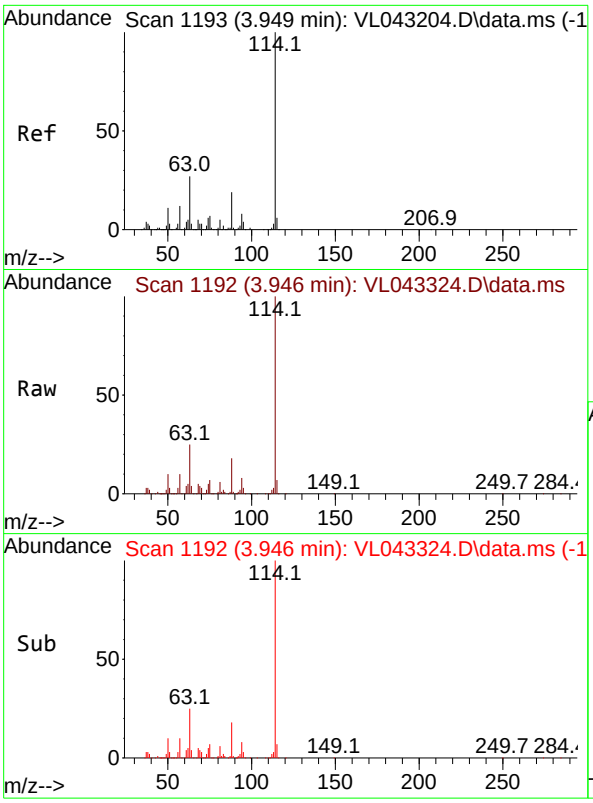


#26
Hexane
Concen: 0.237 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Tgt Ion: 57 Resp: 3985

Ion	Ratio	Lower	Upper
57	100		
41	114.6	74.6	111.8#
43	165.2	179.0	268.4#
56	75.2	42.3	63.5#



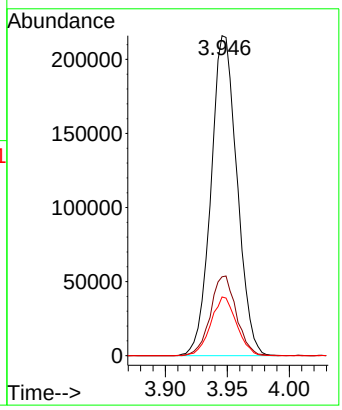


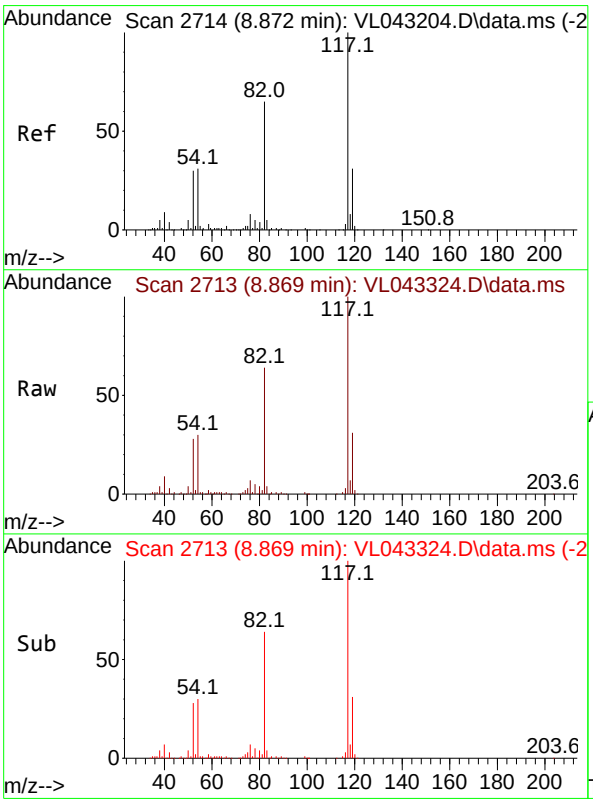
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 11
Delta R.T. -0.004 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1DL

Tgt Ion:114 Resp: 316604

Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.0	31.6
88	18.2	14.9	22.3

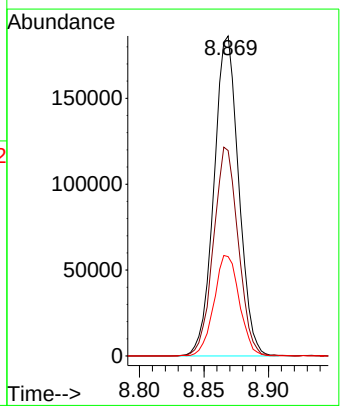


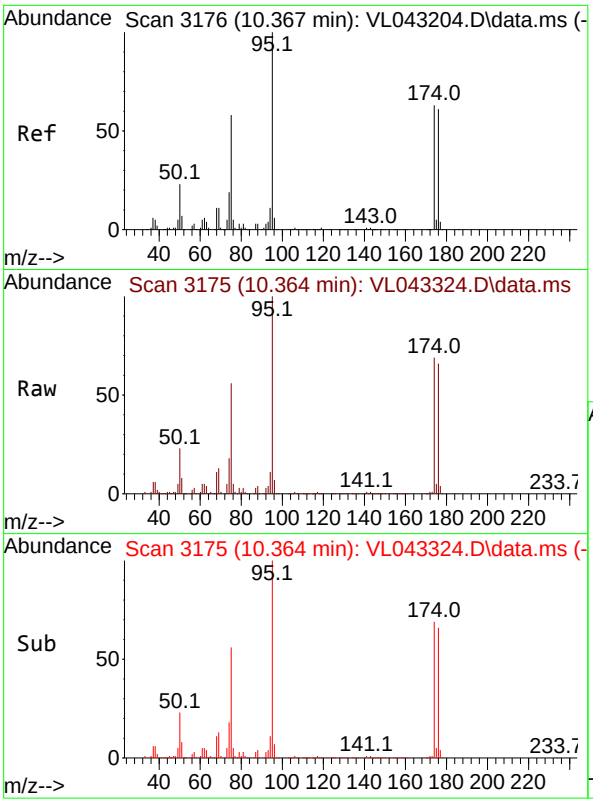


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.004 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Tgt Ion:117 Resp: 248177

Ion	Ratio	Lower	Upper
117	100		
82	65.4	56.1	84.1
119	32.3	25.0	37.6



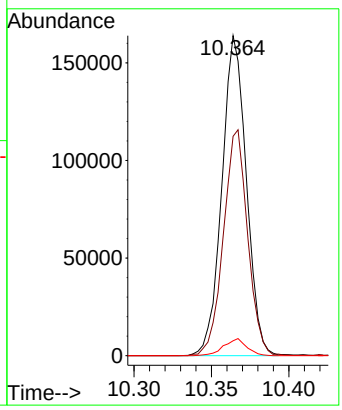


#68
1-Bromo-4-Fluorobenzene
Concen: 9.904 ppbv
RT: 10.364 min Scan# 3
Delta R.T. -0.004 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1DL

Tgt Ion: 95 Resp: 180171

Ion	Ratio	Lower	Upper
95	100		
174	70.2	50.2	75.2
175	5.0	4.1	6.1



CALIBRATION SUMMARY

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL111825AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Nov 19 01:11:25 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL043209.D 0.1 =VL043208.D 0.5 =VL043203.D 1 =VL043206.D 2 =VL043205.D 10 =VL043204.D 15 =VL043210.D

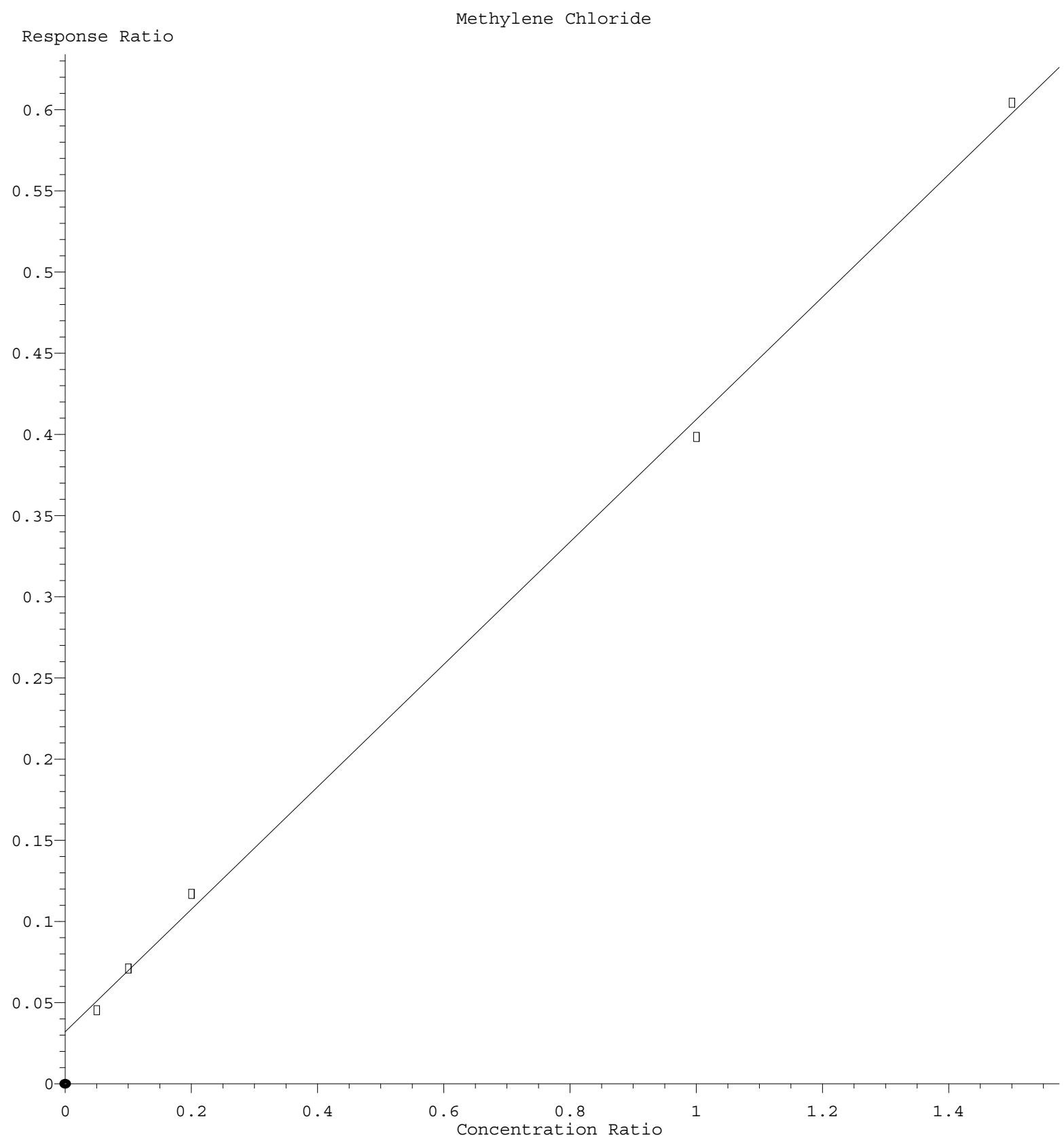
		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.398	1.505	1.476	1.340	1.334	1.410	5.53
3)		Chlorodifluoro...			1.545	1.404	1.437	1.317	1.231	1.387	8.60
4)		Chloromethane			0.521	0.559	0.568	0.498	0.489	0.527	6.72
5)	T	Vinyl Chloride	0.724	0.655	0.533	0.580	0.575	0.486	0.483	0.577	15.33
6)	T	Bromomethane			0.300	0.302	0.286	0.253	0.258	0.280	8.30
7)		Chloroethane			0.246	0.248	0.236	0.194	0.199	0.225	11.59
8)	T	Dichlorotetraf...			1.156	1.241	1.262	1.091	1.116	1.173	6.43
9)	T	Propene			0.677	0.598	0.621	0.501	0.548	0.589	11.44
10)	T	Heptane			2.106	1.804	1.728	1.604	1.522	1.753	12.87
11)	T	Trichlorofluor...			1.238	1.515	1.487	1.240	1.352	1.367	9.62
12)	T	1,1,2-Trichlor...			1.061	1.142	1.115	0.987	1.029	1.067	5.92
13)		Ethanol			0.215	0.231	0.252	0.166	0.172	0.207	17.99
14)	T	Bromoethene			0.448	0.423	0.436	0.362	0.376	0.409	9.29
15)	T	Acetone			1.721	1.591	1.519	1.032	1.085	1.389	22.41
16)	T	1,3-Butadiene			0.745	0.629	0.626	0.551	0.546	0.619	13.01
17)		tert-Butyl alc...			1.784	2.014	1.880	1.705	1.735	1.824	6.87
18)	T	1,1-Dichloroet...			0.555	0.530	0.515	0.441	0.443	0.497	10.52
19)	T	Isopropyl Alcohol			0.848	0.861	0.823	0.684	0.709	0.785	10.51
20)	T	Methylene Chlo...			0.906	0.710	0.585	0.398	0.403	0.600	35.87
21)	T	Allyl Chloride			1.139	0.895	0.936	0.849	0.855	0.935	12.75
22)	T	trans-1,2-Dich...			0.605	0.614	0.599	0.499	0.521	0.568	9.39
23)	T	Vinyl Acetate			1.885	1.632	1.682	1.622	1.565	1.677	7.36
24)	T	1,1-Dichloroet...			1.050	1.173	1.194	1.018	1.044	1.096	7.42
25)	T	Ethyl Acetate			3.371	3.123	3.074	2.759	2.655	2.996	9.68
26)	T	Hexane			1.374	1.424	1.375	1.235	1.161	1.314	8.44
27)	T	Carbon Disulfide			1.303	1.424	1.432	1.257	1.291	1.341	6.03
28)	T	Methyl tert-Bu...			0.642	0.704	0.674	0.591	0.614	0.645	7.02
29)	T	Chloroform			1.955	1.898	1.928	1.785	1.770	1.867	4.52
30)	T	Cyclohexane			1.135	1.194	1.130	1.024	1.024	1.101	6.80
31)	T	cis-1,2-Dichlo...			1.399	1.351	1.322	1.240	1.217	1.306	5.83
32)	T	1,1,1-Trichlor...	2.116	2.046	1.970	2.018	2.033	1.884	1.865	1.990	4.52
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.744	0.751	0.736	0.644	0.655	0.706	7.38
35)	T	Carbon Tetrach...	0.832	0.765	0.779	0.771	0.737	0.708	0.721	0.759	5.51
36)	T	Benzene			0.996	1.001	0.986	0.905	0.900	0.958	5.28
37)	T	1,2-Dichloroet...			0.572	0.580	0.565	0.531	0.553	0.560	3.39
38)	T	Trichloroethene	0.293	0.475	0.390	0.388	0.371	0.353	0.353	0.375	14.65
39)	T	1,2-Dichloropr...			0.372	0.364	0.350	0.335	0.332	0.351	4.97

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL111825AIR.M

40)	T	1,4-Dioxane		0.180	0.166	0.155	0.142	0.144	0.158	10.04
41)	T	Tetrahydrofuran		0.418	0.401	0.402	0.367	0.360	0.390	6.32
42)	T	Bromodichlorom...		0.782	0.795	0.783	0.745	0.758	0.773	2.63
43)		Methyl Methacr...		0.576	0.532	0.511	0.462	0.462	0.508	9.55
44)	T	2,2,4-Trimethy...		1.746	1.765	1.621	1.555	1.537	1.645	6.47
45)	T	t-1,3-Dichloro...		0.495	0.472	0.489	0.455	0.458	0.474	3.79
46)	T	cis-1,3-Dichlo...		0.599	0.557	0.562	0.534	0.529	0.556	5.00
47)	T	1,1,2-Trichlor...		0.424	0.372	0.378	0.344	0.342	0.372	8.91
48)	T	Dibromochlorom...		0.629	0.666	0.663	0.618	0.621	0.640	3.63
49)	T	Bromoform		0.583	0.569	0.581	0.555	0.545	0.566	2.86
50)	T	4-Methyl-2-Pen...		1.025	1.061	1.027	0.946	0.914	0.994	6.19
51)	T	2-Hexanone		0.782	0.805	0.816	0.734	0.724	0.772	5.37
52)	T	Tetrachloroethene	0.363	0.424	0.344	0.362	0.349	0.329	0.323	0.356	9.37
53)	T	Toluene		1.198	1.182	1.146	1.075	1.069	1.134	5.26
54)	T	1,2-Dibromoethane	0.528	0.587	0.569	0.549	0.525	0.526	0.547	4.79
55)	I	Chlorobenzene-d5	----------ISTD----------							
56)		1,1,1,2-Tetrac...		0.791	0.769	0.761	0.677	0.677	0.735	7.34
57)	T	Chlorobenzene		1.035	1.088	1.089	0.969	0.953	1.027	6.24
58)	T	Ethyl Benzene		1.927	2.038	2.008	1.821	1.830	1.925	5.16
59)	T	m/p-Xylene		1.618	1.611	1.607	1.434	1.446	1.543	6.12
60)	T	o-Xylene		1.584	1.625	1.659	1.419	1.421	1.542	7.42
61)	T	Styrene		0.669	0.690	0.719	0.648	0.647	0.675	4.54
62)		Isopropylbenzene		2.807	2.946	2.945	2.556	2.536	2.758	7.31
63)	T	1,1,2,2-Tetrac...	0.999	1.034	1.016	1.012	1.028	0.891	0.884	0.981	6.58
64)		n-propylbenzene		0.722	0.758	0.757	0.657	0.649	0.709	7.47
65)		tert-Butylbenzene		2.583	2.687	2.646	2.224	2.176	2.463	9.90
66)	T	Benzyl Chloride		0.275	0.251	0.257	0.241	0.225	0.250	7.36
67)		sec-Butylbenzene		3.588	3.728	3.697	3.108	3.070	3.438	9.40
68)	S	1-Bromo-4-Fluo...	0.712	0.725	0.729	0.733	0.741	0.735	0.757	0.733	1.90
69)		p-Isopropyltol...		2.994	3.070	3.197	2.660	2.641	2.912	8.58
70)		n-Butylbenzene		2.676	3.041	3.125	2.639	2.647	2.825	8.39
71)		2-Chlorotoluene		2.198	2.257	2.210	1.960	1.975	2.120	6.65
72)	T	4-Ethyltoluene		1.934	1.948	2.009	1.749	1.747	1.877	6.46
73)	T	1,3,5-Trimethy...		1.623	1.682	1.662	1.456	1.454	1.575	7.09
74)	T	1,2,4-Trimethy...		1.796	1.844	1.871	1.548	1.537	1.719	9.51
75)	T	1,3-Dichlorobe...		1.043	1.053	1.061	0.937	0.922	1.003	6.78
76)	T	1,4-Dichlorobe...		1.056	1.033	1.060	0.940	0.930	1.003	6.34
77)	T	1,2-Dichlorobe...		0.974	1.064	1.050	0.872	0.863	0.965	9.83
78)	T	Hexachloro-1,3...		0.854	0.899	0.920	0.686	0.666	0.805	14.94
79)	T	Naphthalene	1.230	1.483	1.599	1.860	1.496	1.493	1.527	13.35
80)	T	Naphthalene,2-...		0.397	0.323	0.448	0.397	0.439	0.401	12.30
81)	T	1,2,4-Trichlor...		0.549	0.692	0.813	0.678	0.682	0.683	13.72

(#) = Out of Range



Response = 3.773e-001 * Amt + 3.213e-002
Coef of Det (r^2) = 0.998825 Curve Fit: Linear
Method: Q3709TO-15 Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Calibration Table Last Updated: Wed Nov 19 01:11:25 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043203.D
Acq On : 18 Nov 2025 09:29
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:48:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	110490	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	296493	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	247761	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	180529	9.941	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	7723	0.496	ppbv		99
3) Chlorodifluoromethane	1.473	51	8538	0.557	ppbv	#	82
4) Chloromethane	1.531	50	2881	0.494	ppbv		94
5) Vinyl Chloride	1.580	62	2947	0.462	ppbv	#	87
6) Bromomethane	1.667	94	1656	0.536	ppbv		97
7) Chloroethane	1.703	64	1357	0.547	ppbv		100
8) Dichlorotetrafluoroethane	1.554	85	6386	0.493	ppbv		100
9) Propene	1.483	41	3739	0.526	ppbv	#	1
10) Heptane	4.972	43	11637m	0.597	ppbv		
11) Trichlorofluoromethane	1.878	101	6841	0.453	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.140	101	5863	0.497	ppbv		99
13) Ethanol	1.719	45	1190	0.520	ppbv		64
14) Bromoethene	1.781	108	2476	0.548	ppbv	#	75
15) Acetone	1.836	43	9506	0.619	ppbv	#	88
16) 1,3-Butadiene	1.606	39	4115	0.601	ppbv		95
17) tert-Butyl alcohol	2.043	59	9854	0.489	ppbv	#	68
18) 1,1-Dichloroethene	2.033	96	3068	0.559	ppbv		96
19) Isopropyl Alcohol	1.887	45	4687	0.540	ppbv	#	51
20) Methylene Chloride	2.059	84	5006	0.349	ppbv		92
21) Allyl Chloride	2.095	41	6291	0.609	ppbv		95
22) trans-1,2-Dichloroethene	2.337	96	3343	0.533	ppbv		80
23) Vinyl Acetate	2.464	43	10414	0.562	ppbv	#	92
24) 1,1-Dichloroethane	2.409	63	5803	0.479	ppbv	#	96
25) Ethyl Acetate	2.839	43	18625m	0.562	ppbv		
26) Hexane	2.823	57	7589	0.523	ppbv	#	91
27) Carbon Disulfide	2.150	76	7198	0.486	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	3545	0.498	ppbv	#	15
29) Chloroform	2.849	83	10800	0.523	ppbv		95
30) Cyclohexane	3.849	84	6271	0.515	ppbv		85
31) cis-1,2-Dichloroethene	2.719	61	7728	0.536	ppbv		87
32) 1,1,1-Trichloroethane	3.363	97	10886	0.490	ppbv		98
34) 2-Butanone	2.557	43	11026	0.527	ppbv		95
35) Carbon Tetrachloride	3.761	117	11551	0.513	ppbv		94
36) Benzene	3.655	78	14759	0.520	ppbv	#	91
37) 1,2-Dichloroethane	3.218	62	8477	0.510	ppbv	#	93
38) Trichloroethene	4.542	130	5775	0.519	ppbv	#	87
39) 1,2-Dichloropropane	4.312	63	5510	0.530	ppbv	#	80
40) 1,4-Dioxane	4.597	88	2675m	0.573	ppbv		
41) Tetrahydrofuran	3.059	42	6193	0.536	ppbv		95
42) Bromodichloromethane	4.490	83	11597	0.506	ppbv	#	84
43) Methyl Methacrylate	4.881	69	8534m	0.566	ppbv		
44) 2,2,4-Trimethylpentane	4.642	57	25890	0.531	ppbv		95
45) t-1,3-Dichloropropene	6.412	75	7343	0.523	ppbv		94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043203.D
Acq On : 18 Nov 2025 09:29
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:48:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	8886m	0.539	ppbv		
47) 1,1,2-Trichloroethane	6.581	97	6280m	0.567	ppbv		
48) Dibromochloromethane	7.380	129	9327	0.492	ppbv		97
49) Bromoform	9.481	173	8636	0.514	ppbv		100
50) 4-Methyl-2-Pentanone	5.755	43	15190	0.515	ppbv		92
51) 2-Hexanone	7.442	43	11594	0.506	ppbv	#	93
52) Tetrachloroethene	8.218	164	5097	0.483	ppbv	#	82
53) Toluene	6.924	91	17755m	0.525	ppbv		
54) 1,2-Dibromoethane	7.649	107	8708	0.537	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.917	131	9793m	0.538	ppbv		
57) Chlorobenzene	8.917	112	12818	0.504	ppbv		98
58) Ethyl Benzene	9.351	91	23866	0.500	ppbv		96
59) m/p-Xylene	9.526	91	40076m	1.044	ppbv		
60) o-Xylene	9.956	91	19621	0.514	ppbv		100
61) Styrene	9.869	104	8287	0.496	ppbv		96
62) Isopropylbenzene	10.536	105	34773	0.509	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.960	83	12591	0.519	ppbv		100
64) n-propylbenzene	10.986	120	8945	0.509	ppbv		100
65) tert-Butylbenzene	11.526	119	31998	0.524	ppbv		99
66) Benzyl Chloride	11.610	91	3403	0.550	ppbv		98
67) sec-Butylbenzene	11.766	105	44448	0.522	ppbv		97
69) p-Isopropyltoluene	11.921	119	37087	0.514	ppbv		100
70) n-Butylbenzene	12.277	91	33153	0.474	ppbv		94
71) 2-Chlorotoluene	10.895	91	27224	0.518	ppbv		99
72) 4-Ethyltoluene	11.122	105	23963	0.515	ppbv		97
73) 1,3,5-Trimethylbenzene	11.199	105	20104	0.515	ppbv		99
74) 1,2,4-Trimethylbenzene	11.533	105	22254	0.522	ppbv		91
75) 1,3-Dichlorobenzene	11.604	146	12926	0.520	ppbv		98
76) 1,4-Dichlorobenzene	11.672	146	13076	0.526	ppbv		98
77) 1,2-Dichlorobenzene	11.947	146	12069	0.505	ppbv		97
78) Hexachloro-1,3-Butadiene	13.879	225	10578	0.530	ppbv		98
79) Naphthalene	13.513	128	18377	0.486	ppbv		97
80) Naphthalene,2-methyl-	14.462	142	4917	0.495	ppbv		91
81) 1,2,4-Trichlorobenzene	13.439	180	6798	0.402	ppbv		97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043203.D
Acq On : 18 Nov 2025 09:29
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:48:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

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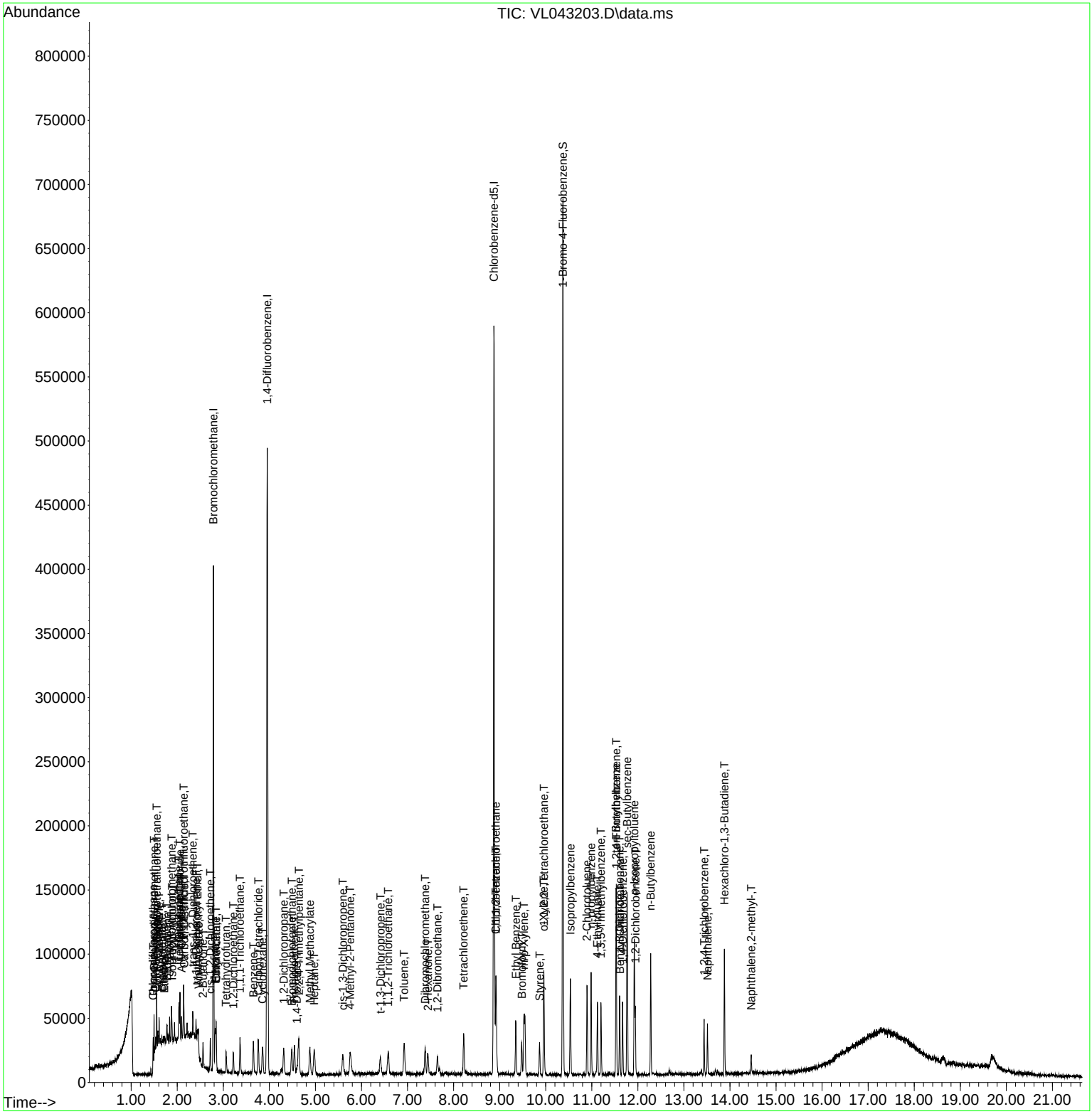
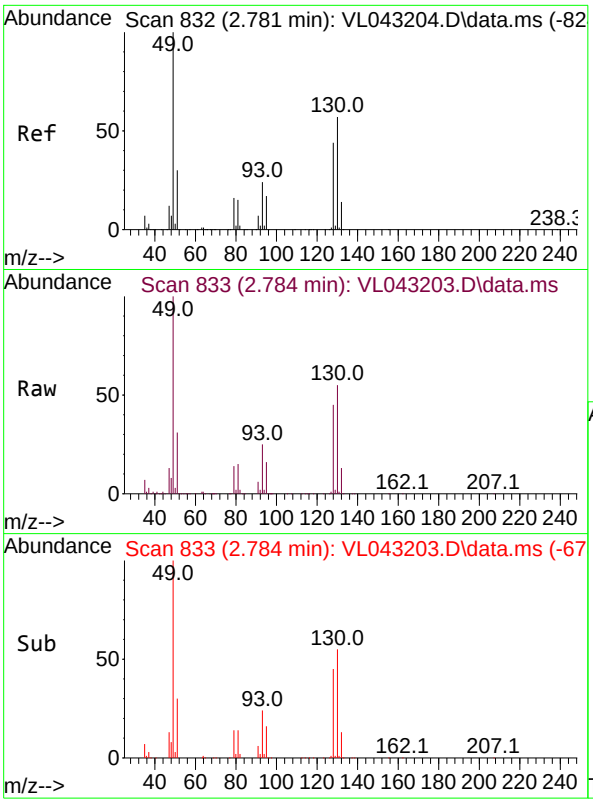
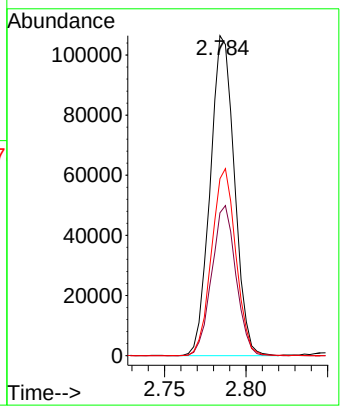




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 49 Resp: 11049

Ion	Ratio	Lower	Upper
49	100		
128	46.6	23.0	69.0
130	58.4	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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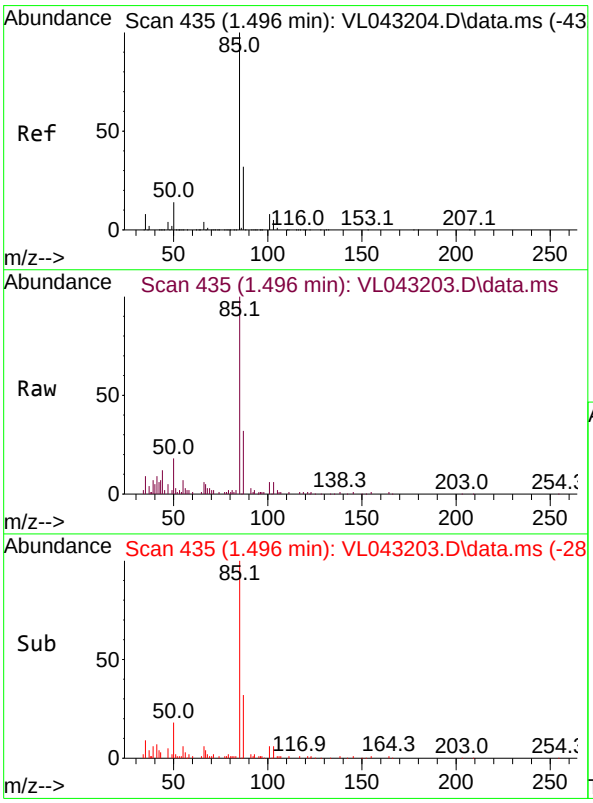
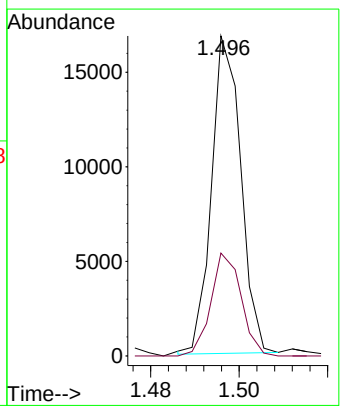
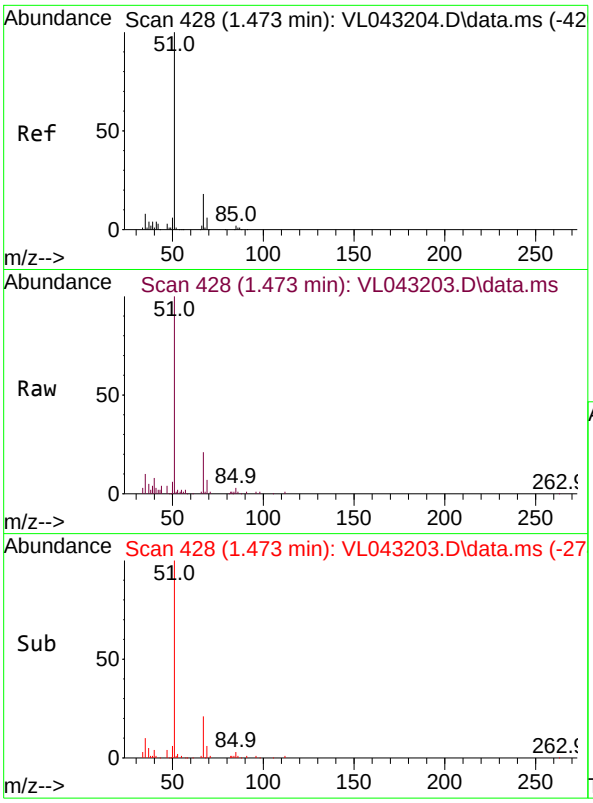


#2
Dichlorodifluoromethane
Concen: 0.496 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 85 Resp: 7723

Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.4	38.2

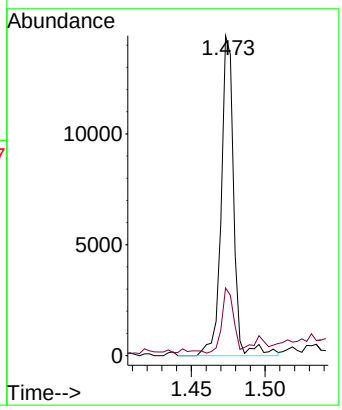




#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 51 Resp: 853

Ion	Ratio	Lower	Upper
51	100		
67	26.4	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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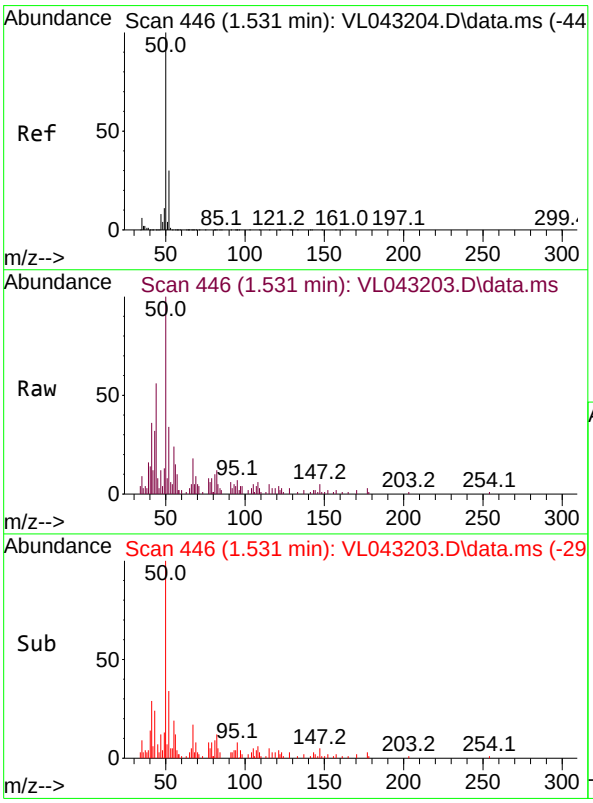
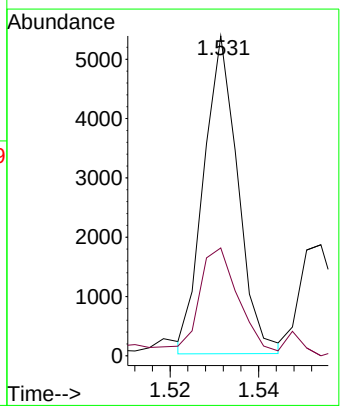
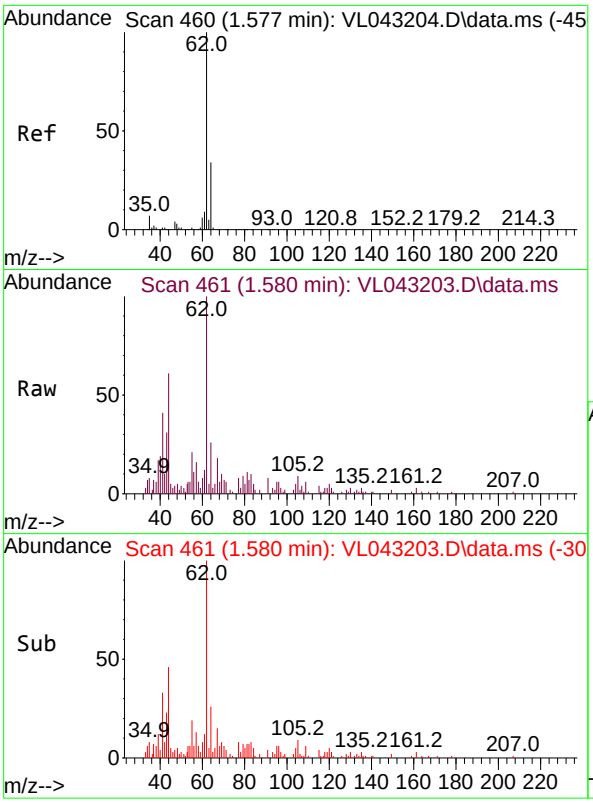


#4
Chloromethane
Concen: 0.494 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 50 Resp: 2881

Ion	Ratio	Lower	Upper
50	100		
52	33.5	24.1	36.1





#5
Vinyl Chloride
Concen: 0.462 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 62 Resp: 294

Ion	Ratio	Lower	Upper
62	100		
64	26.4	27.3	40.9#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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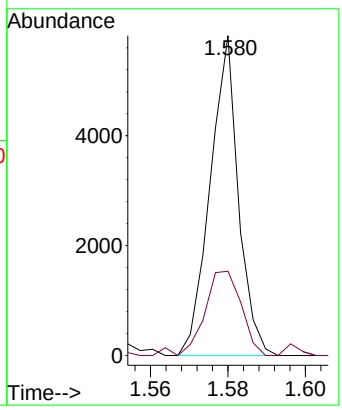
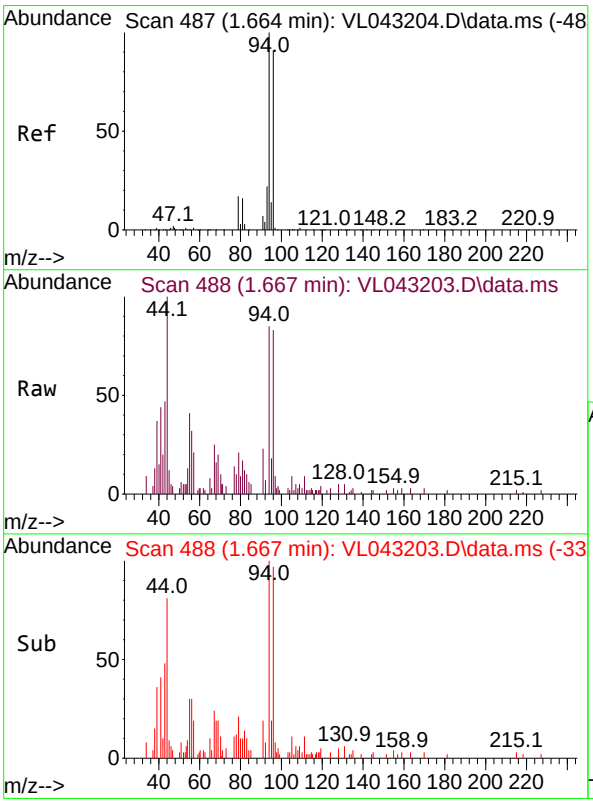
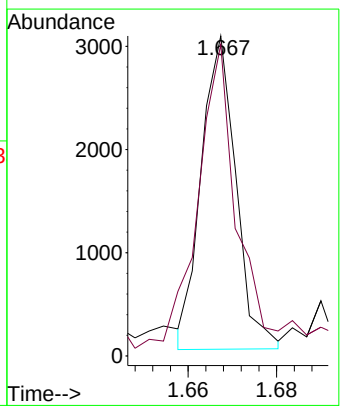


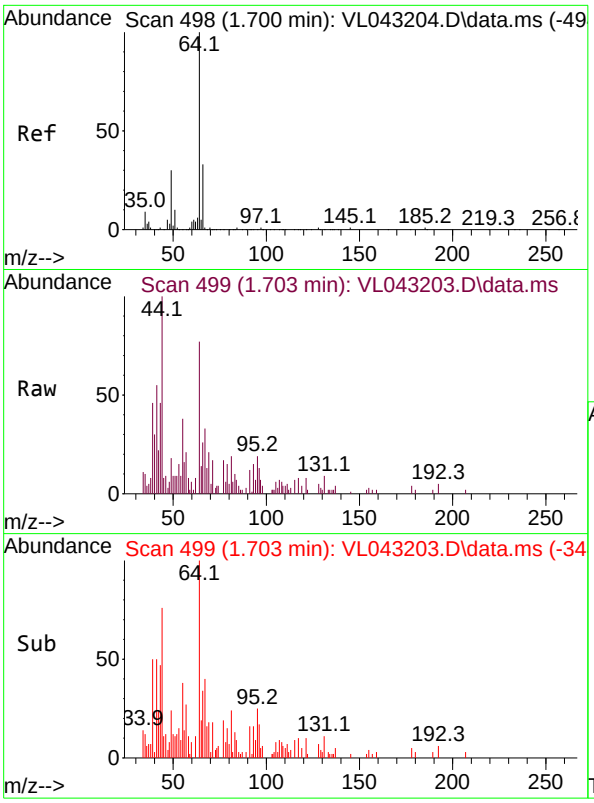


#6
Bromomethane
Concen: 0.536 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 94 Resp: 1656

Ion	Ratio	Lower	Upper
94	100		
96	93.9	72.9	109.3

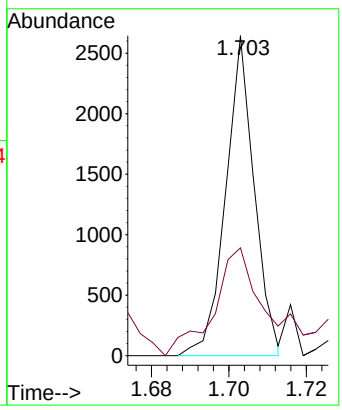




#7
Chloroethane
Concen: 0.547 ppbv
RT: 1.703 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 64 Resp: 135

Ion	Ratio	Lower	Upper
64	100		
66	33.7	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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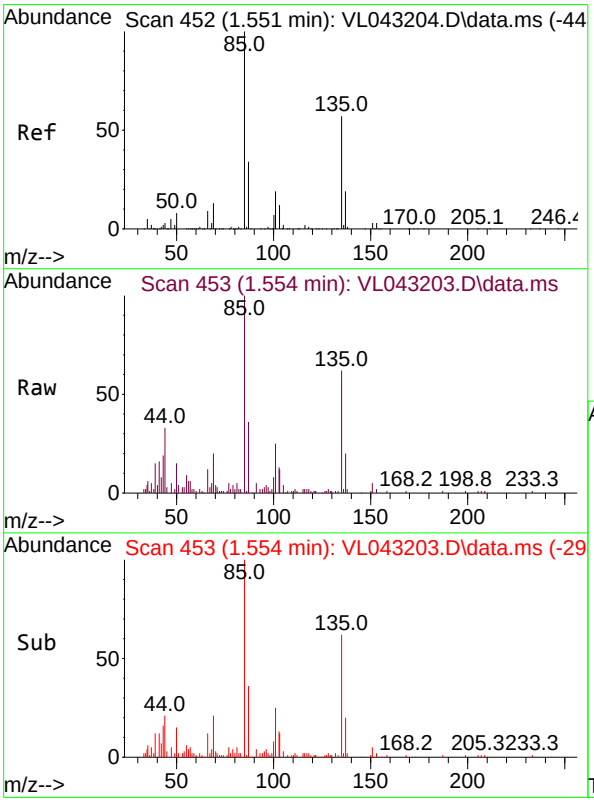
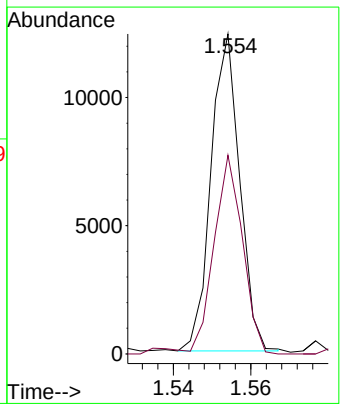
Supervised By :Mahesh Dadoda 11/19/2025

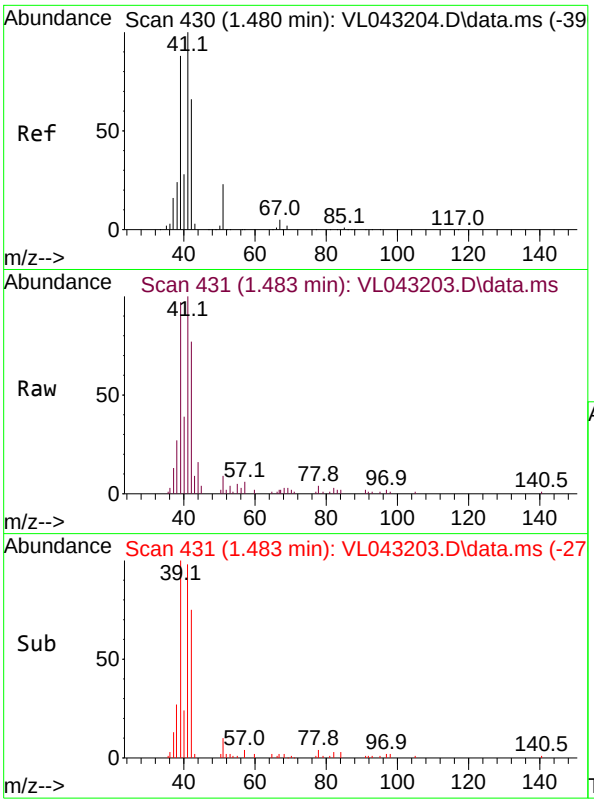


#8
Dichlorotetrafluoroethane
Concen: 0.493 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 85 Resp: 6386

Ion	Ratio	Lower	Upper
85	100		
135	65.8	52.6	79.0

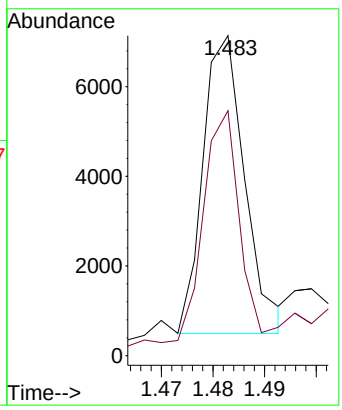




#9
Propene
Concen: 0.526 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 41 Resp: 3739

Ion	Ratio	Lower	Upper
41	100		
42	121.9	3.7	5.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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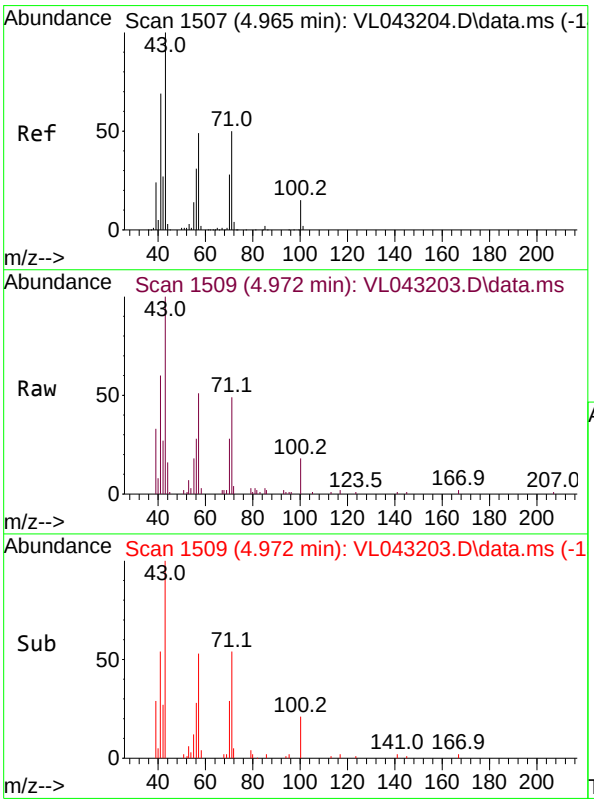
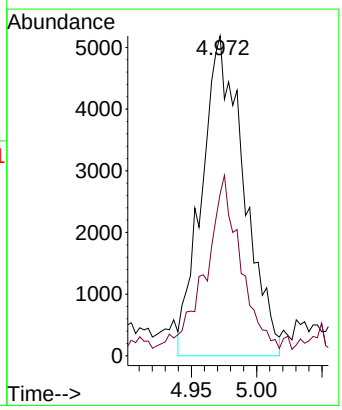
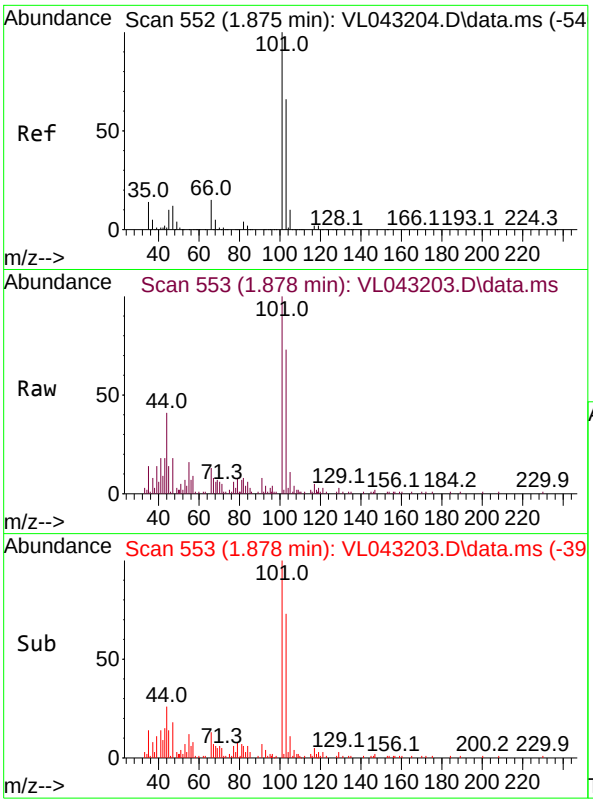


#10
Heptane
Concen: 0.597 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 11637

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#

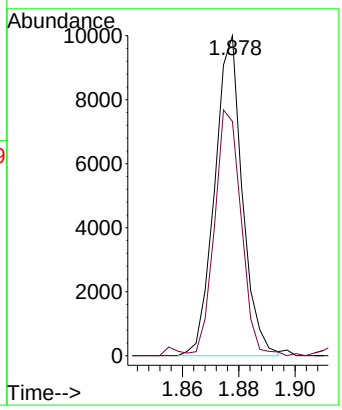




#11
Trichlorofluoromethane
Concen: 0.453 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:101 Resp: 6841

Ion	Ratio	Lower	Upper
101	100		
103	71.8	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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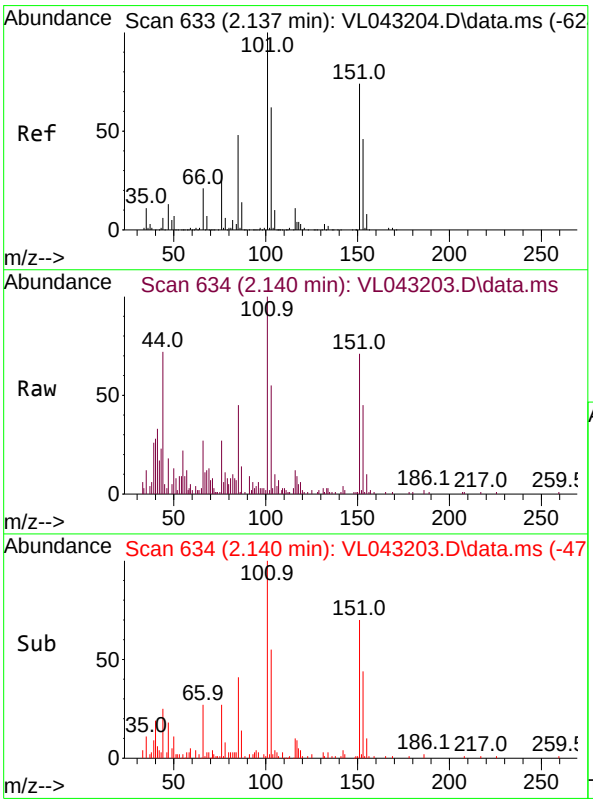
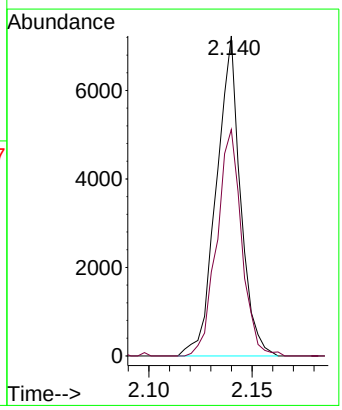
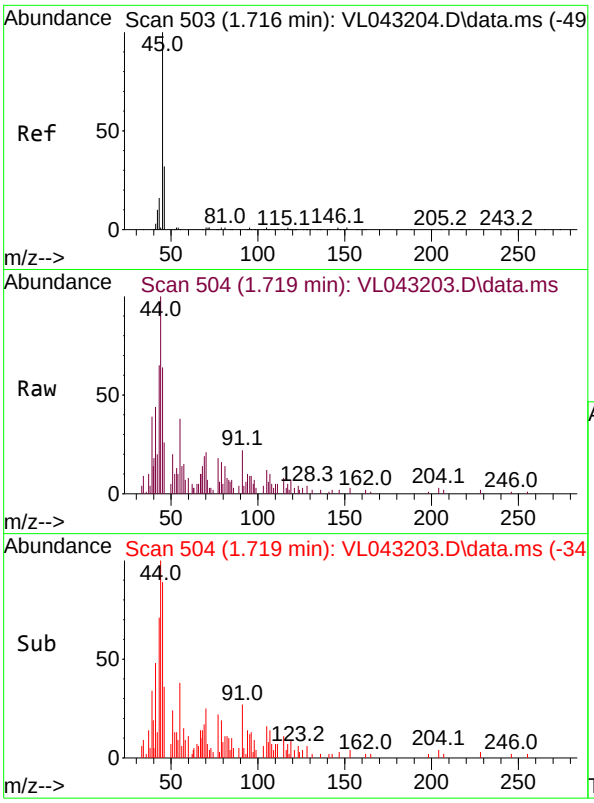


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.497 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:101 Resp: 5863

Ion	Ratio	Lower	Upper
101	100		
151	72.8	59.2	88.8

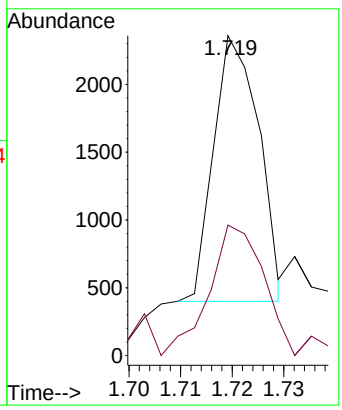




#13
Ethanol
Concen: 0.520 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 45 Resp: 119

Ion	Ratio	Lower	Upper
45	100		
46	58.7	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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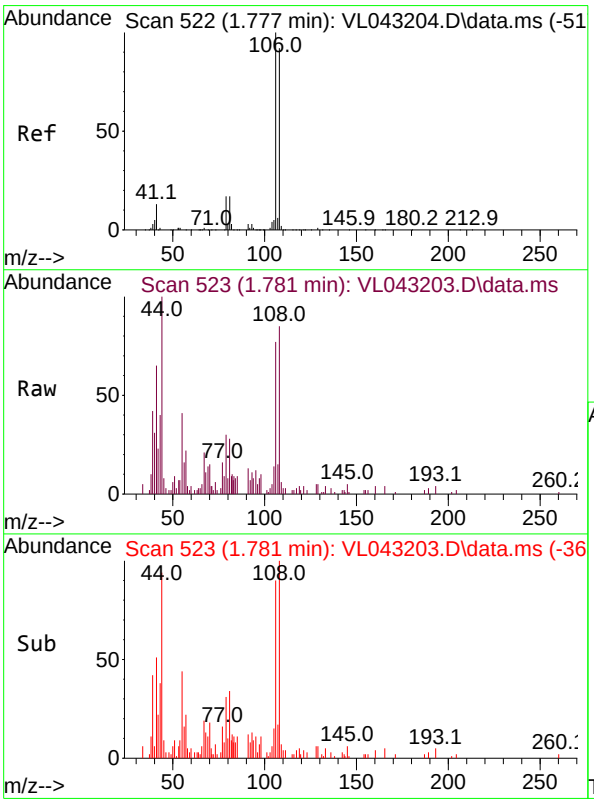
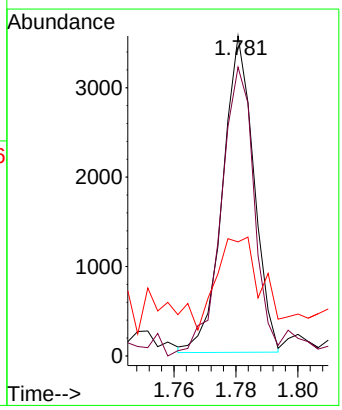
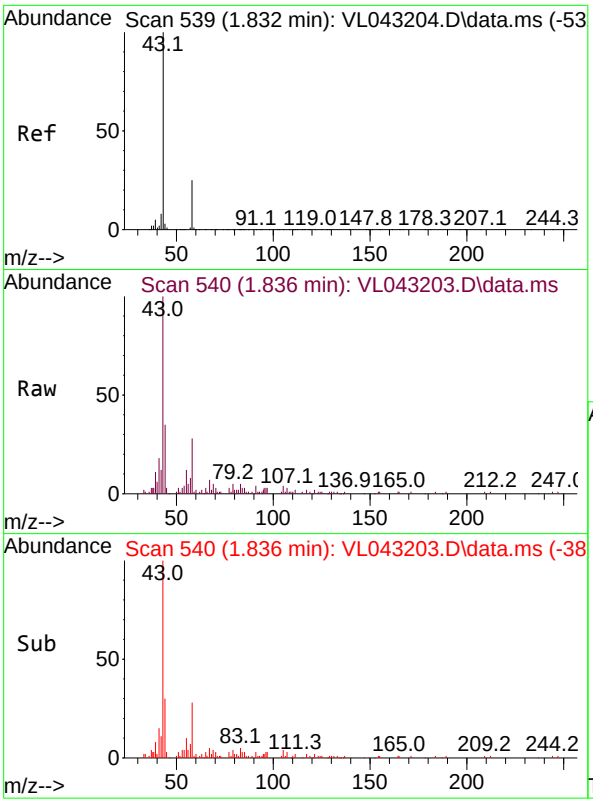


#14
Bromoethene
Concen: 0.548 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:108 Resp: 2476

Ion	Ratio	Lower	Upper
108	100		
106	126.4	88.9	133.3
79	58.5	16.5	24.7#

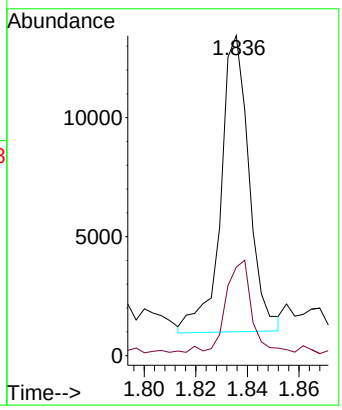




#15
Acetone
Concen: 0.619 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 950

Ion	Ratio	Lower	Upper
43	100		
58	32.0	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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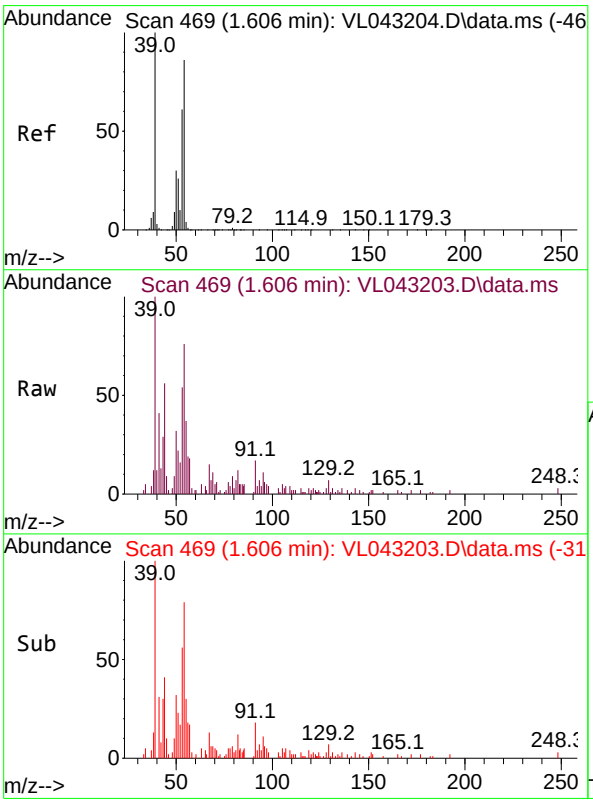
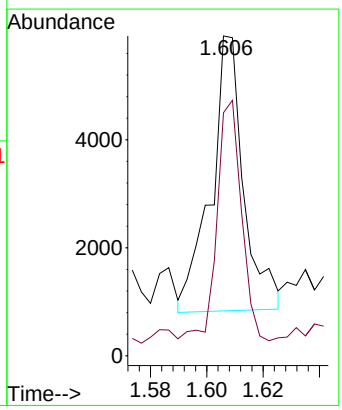
Supervised By :Mahesh Dadoda 11/19/2025

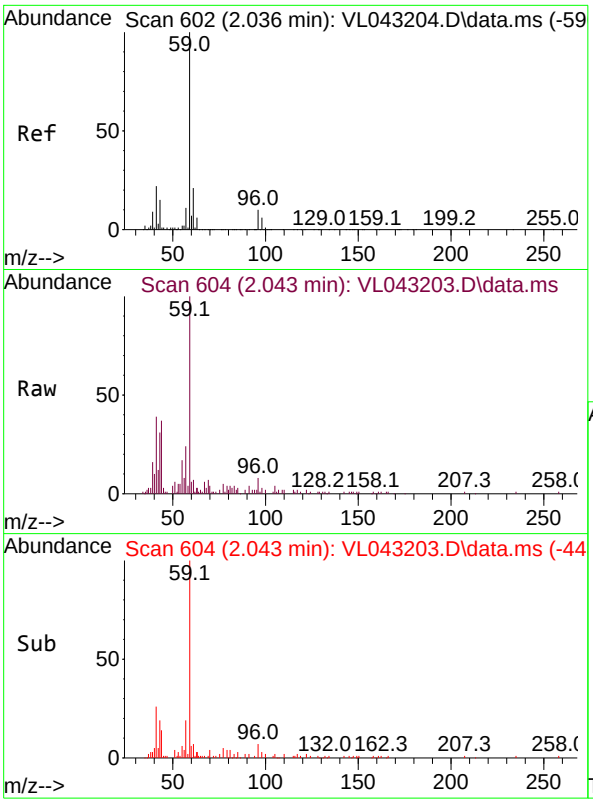


#16
1,3-Butadiene
Concen: 0.601 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 39 Resp: 4115

Ion	Ratio	Lower	Upper
39	100		
54	70.0	59.4	89.2





#17
tert-Butyl alcohol
Concen: 0.489 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 59 Resp: 985

Ion	Ratio	Lower	Upper
59	100		
57	23.3	9.0	13.4

Instrument :
MSVOA_L
ClientSampleId :
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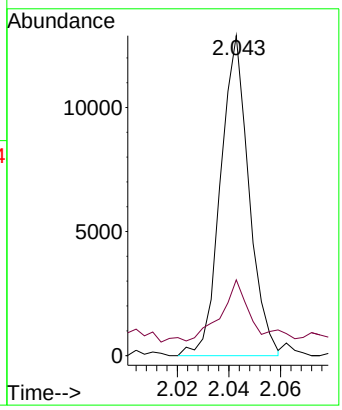
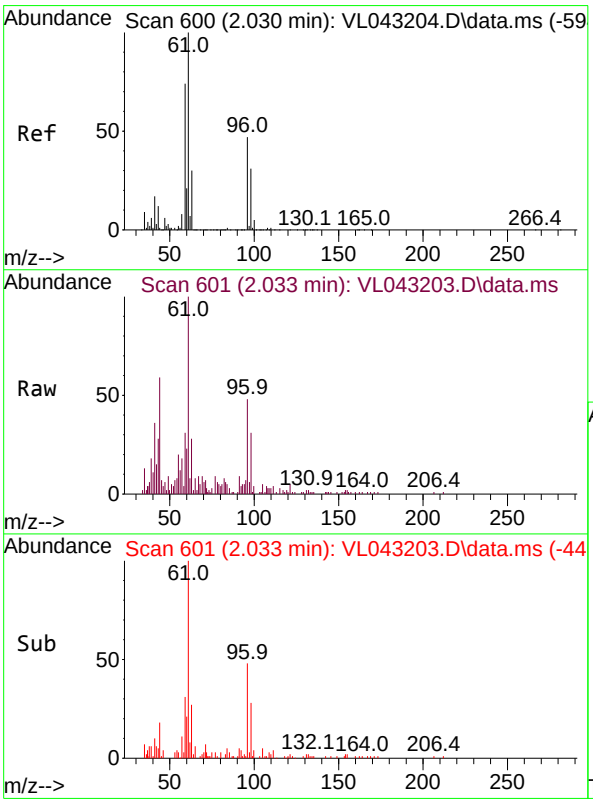
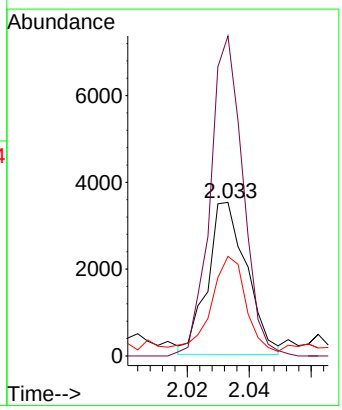


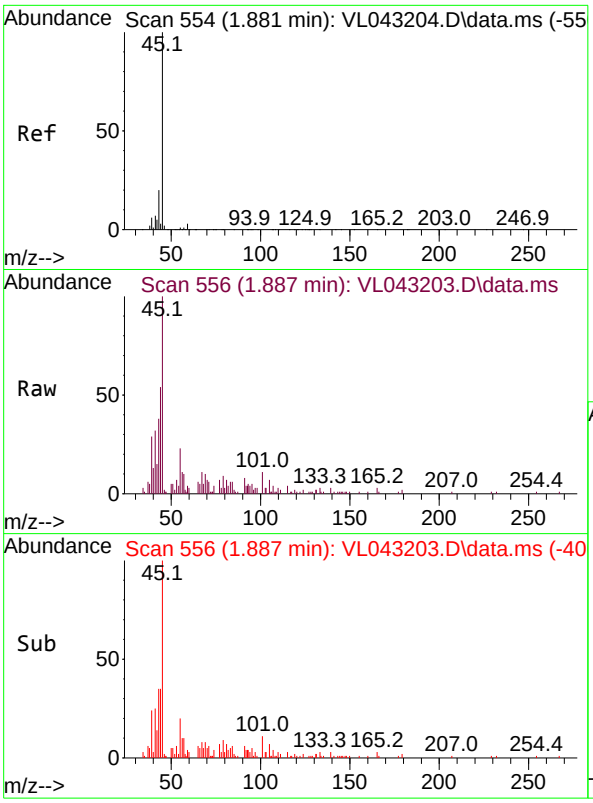


#18
1,1-Dichloroethene
Concen: 0.559 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 96 Resp: 3068

Ion	Ratio	Lower	Upper
96	100		
61	220.0	170.6	255.8
98	66.3	52.2	78.4

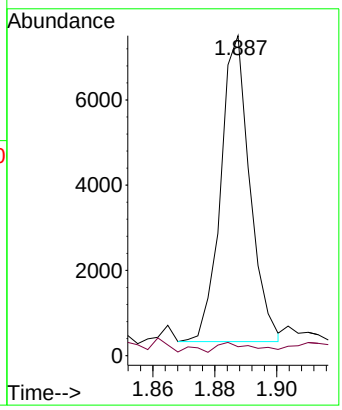




#19
Isopropyl Alcohol
Concen: 0.540 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 45 Resp: 468

Ion	Ratio	Lower	Upper
45	100		
58	9.0	31.3	46.9#



Instrument :
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ClientSampleId :
VSTDICC0.5

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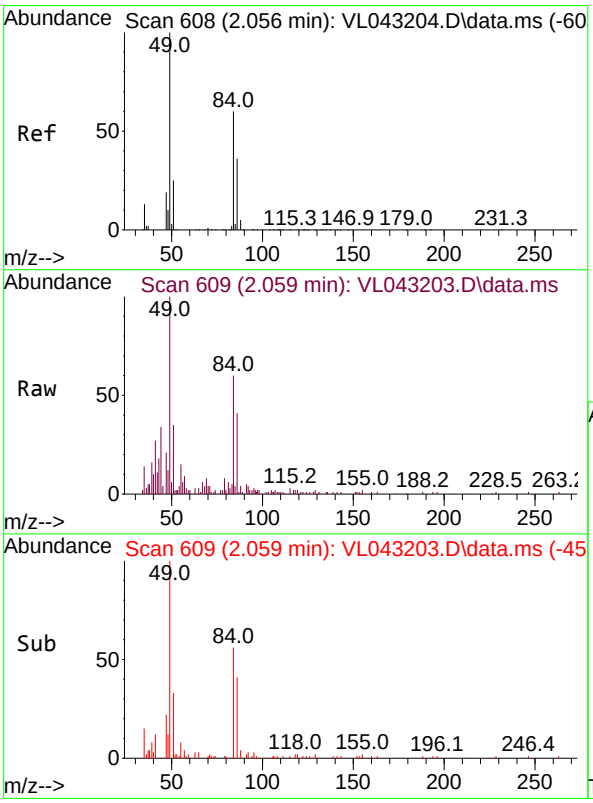
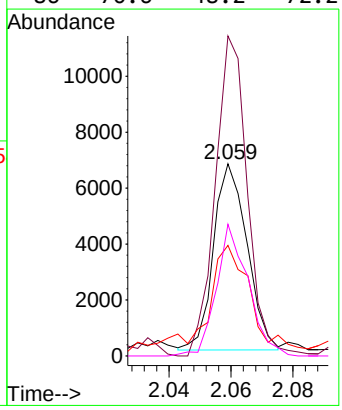
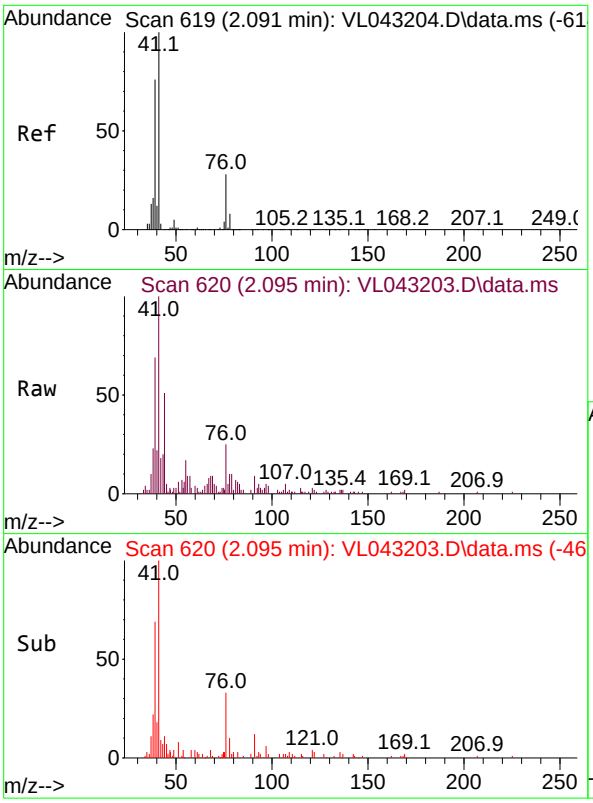


#20
Methylene Chloride
Concen: 0.349 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 84 Resp: 5006

Ion	Ratio	Lower	Upper
84	100		
49	173.9	132.9	199.3
51	48.8	34.8	52.2
86	70.6	48.2	72.2

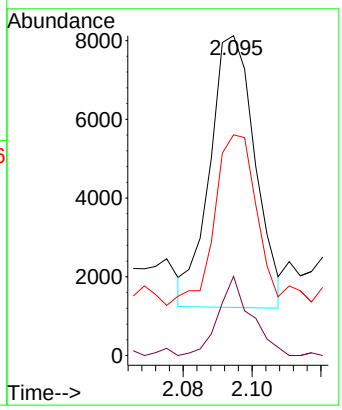




#21
Allyl Chloride
Concen: 0.609 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 41 Resp: 629

Ion	Ratio	Lower	Upper
41	100		
76	22.2	22.1	33.1
39	73.5	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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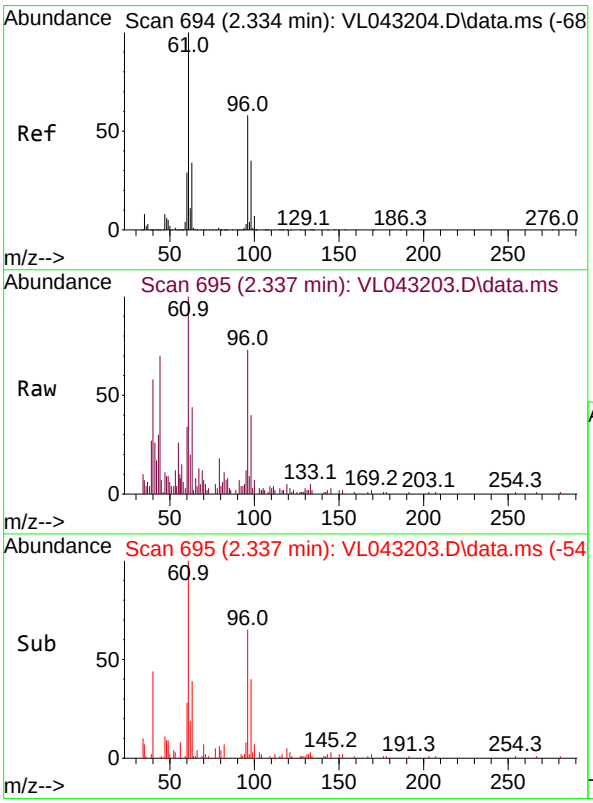
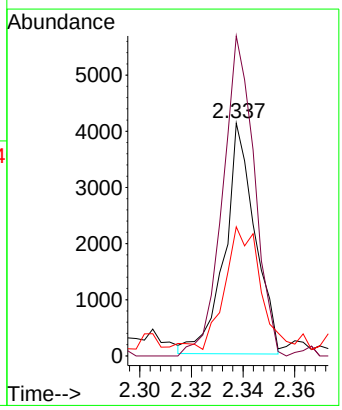
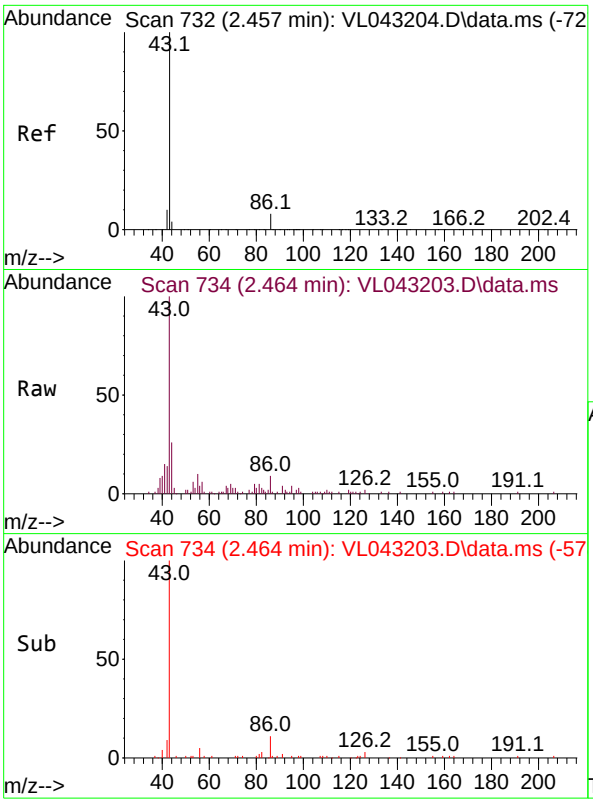


#22
trans-1,2-Dichloroethene
Concen: 0.533 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 96 Resp: 3343

Ion	Ratio	Lower	Upper
96	100		
61	141.8	139.0	208.6
98	51.7	49.4	74.2

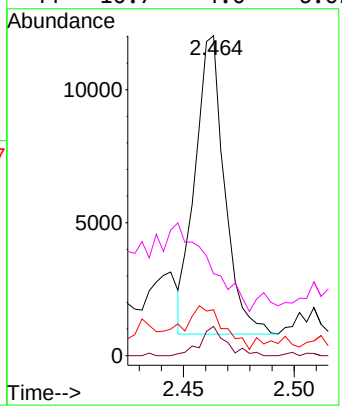




#23
Vinyl Acetate
Concen: 0.562 ppbv
RT: 2.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 1041

Ion	Ratio	Lower	Upper
43	100		
86	10.8	6.2	9.2#
42	11.4	8.0	12.0
44	10.7	4.0	6.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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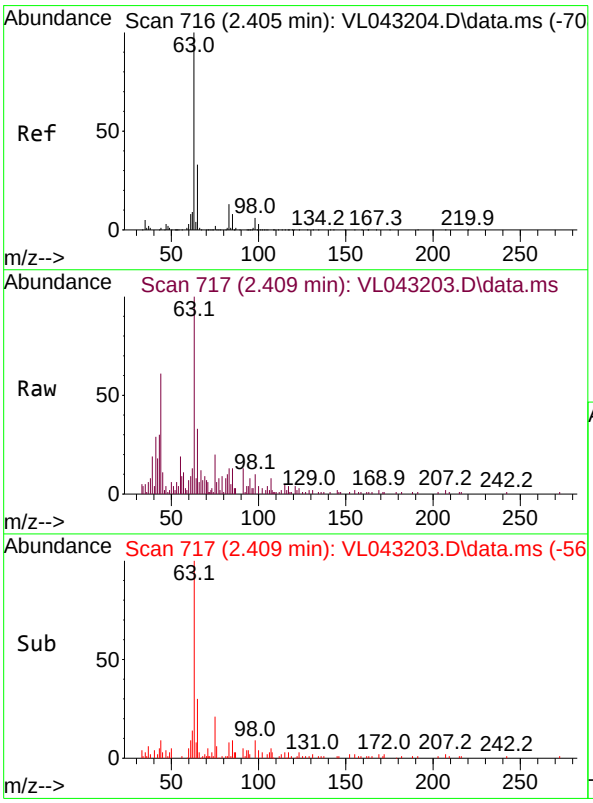
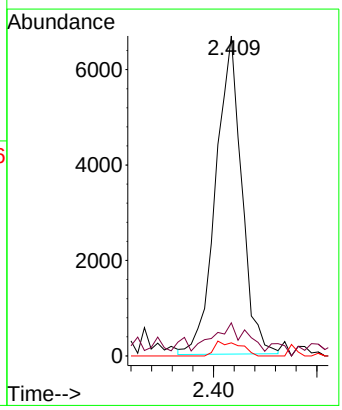
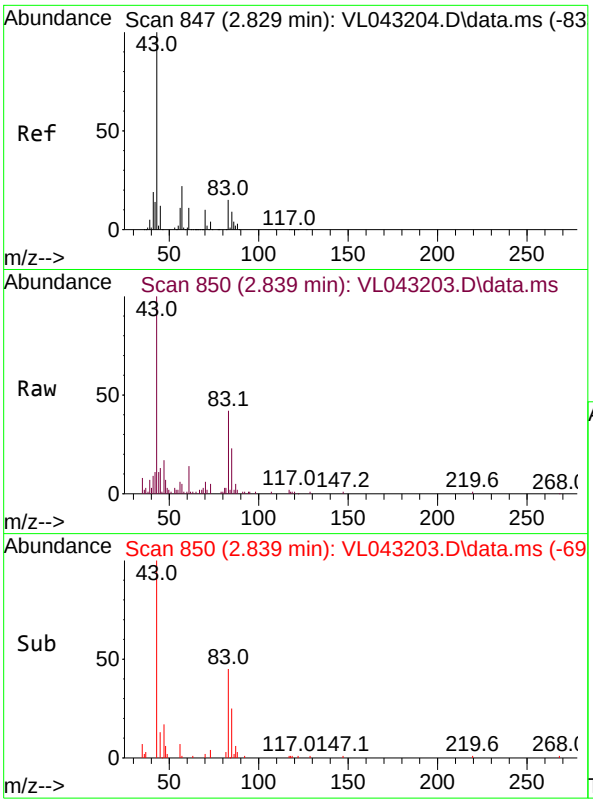


#24
1,1-Dichloroethane
Concen: 0.479 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 63 Resp: 5803

Ion	Ratio	Lower	Upper
63	100		
98	6.6	2.8	8.4
100	4.2	1.3	3.9#

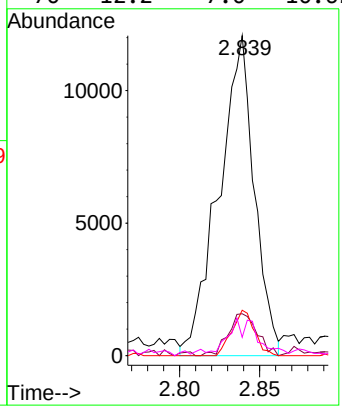




#25
Ethyl Acetate
Concen: 0.562 ppbv m
RT: 2.839 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 1862

Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.1	12.1
61	9.0	7.0	10.4
70	12.2	7.0	10.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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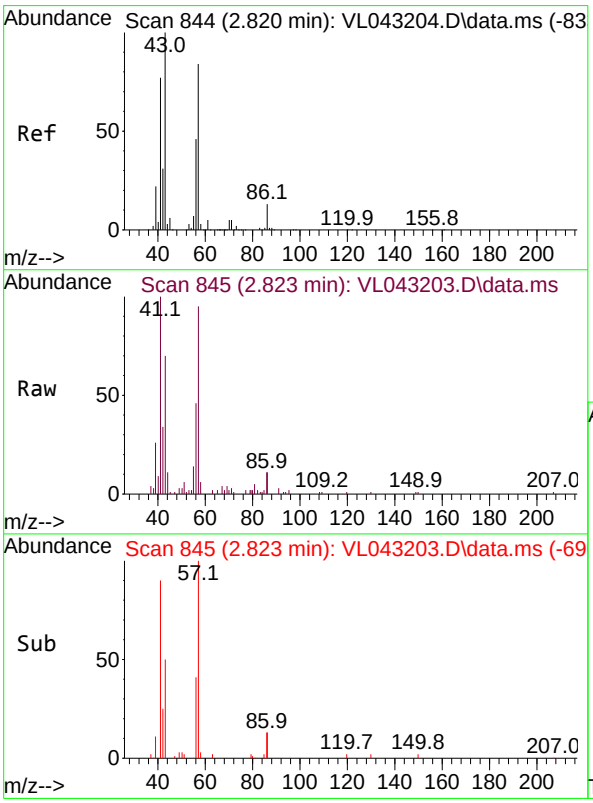
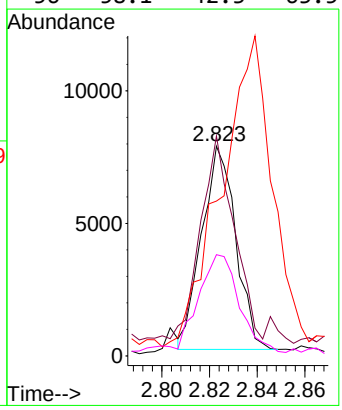
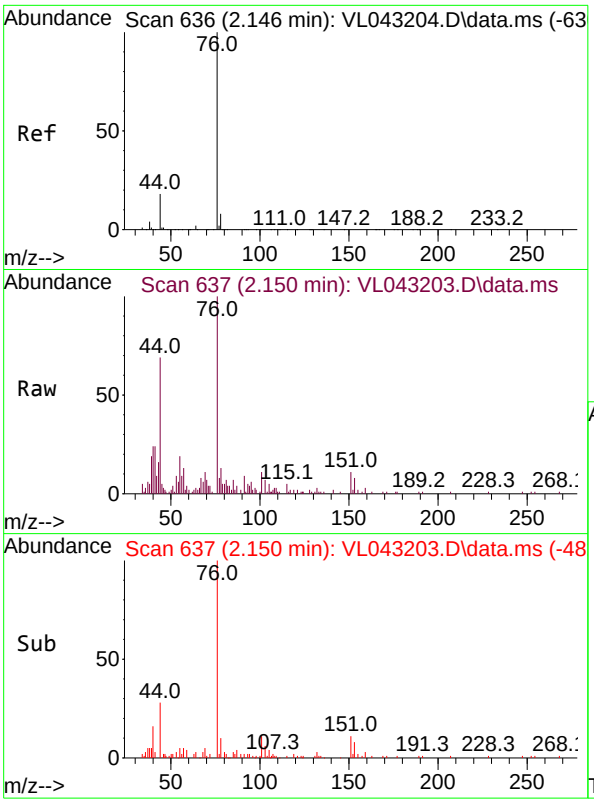


#26
Hexane
Concen: 0.523 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 57 Resp: 7589

Ion	Ratio	Lower	Upper
57	100		
41	114.6	74.6	111.8#
43	229.7	179.0	268.4
56	58.1	42.3	63.5

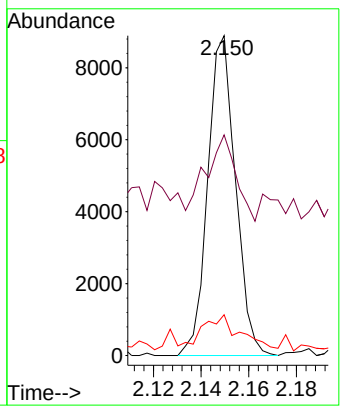




#27
Carbon Disulfide
Concen: 0.486 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 76 Resp: 719

Ion	Ratio	Lower	Upper
76	100		
44	115.9	16.1	24.1#
78	26.4	9.6	14.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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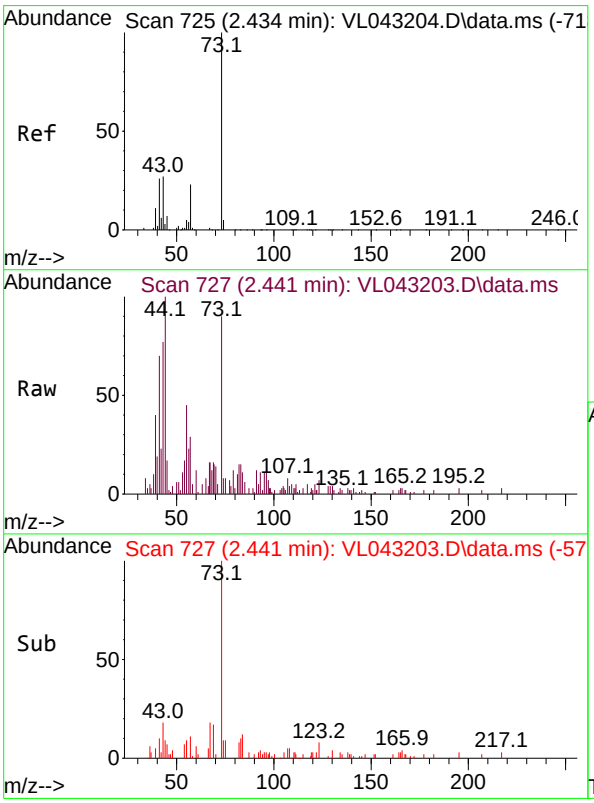
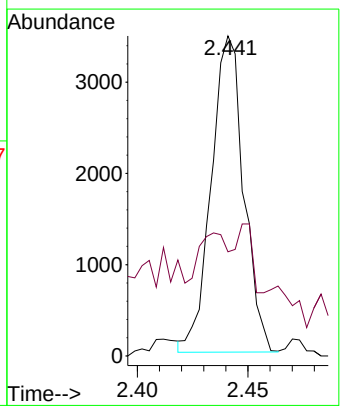
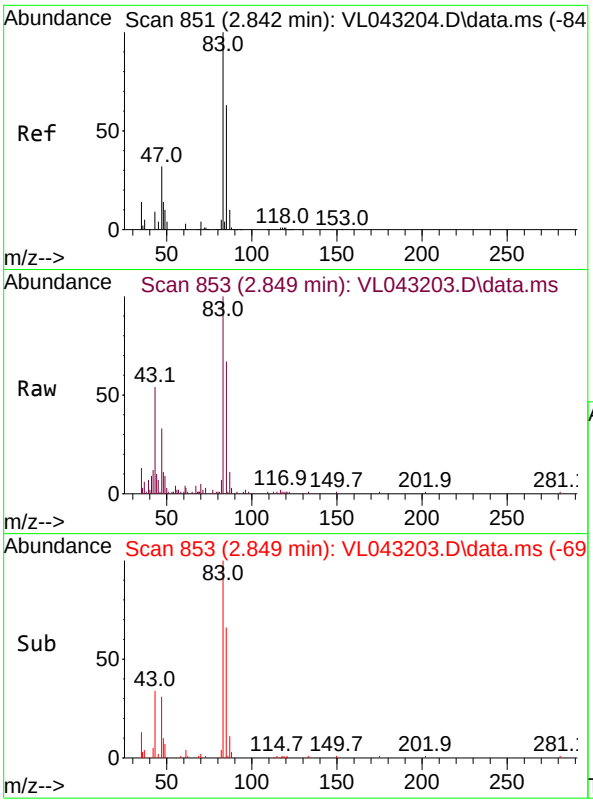


#28
Methyl tert-Butyl Ether
Concen: 0.498 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 73 Resp: 3545

Ion	Ratio	Lower	Upper
73	100		
57	67.2	19.8	29.8#





#29
Chloroform
Concen: 0.523 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 83 Resp: 1080

Ion	Ratio	Lower	Upper
83	100		
85	66.9	50.5	75.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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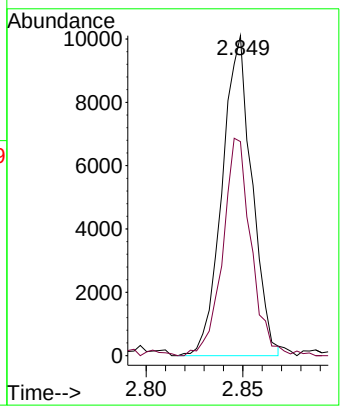
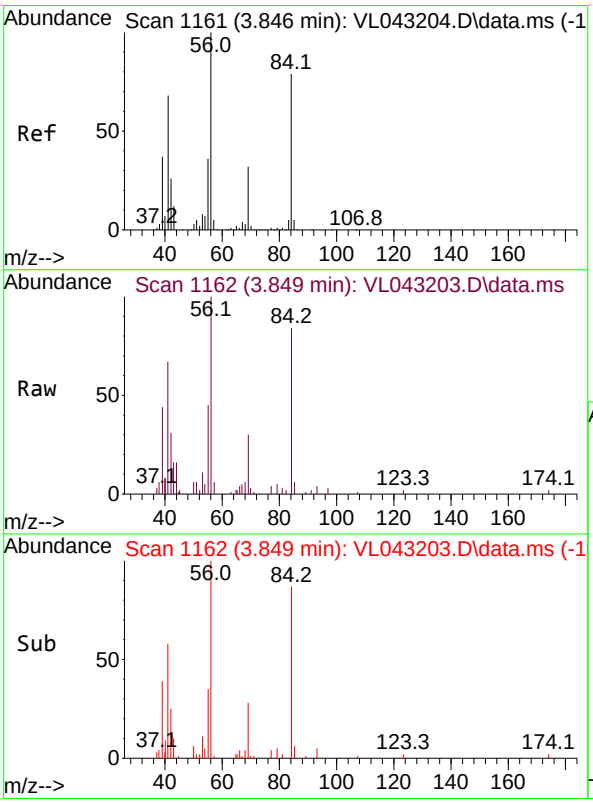
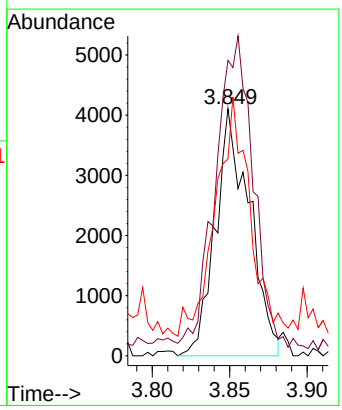


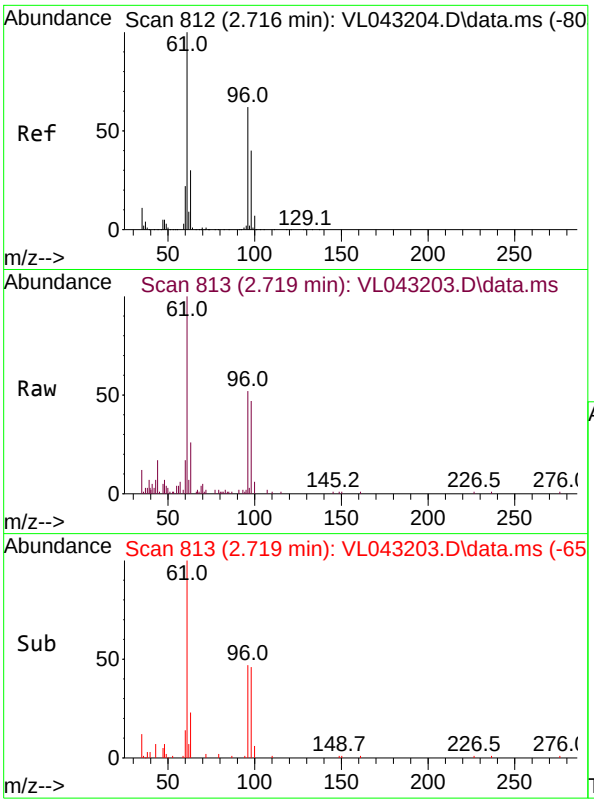


#30
Cyclohexane
Concen: 0.515 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 84 Resp: 6271

Ion	Ratio	Lower	Upper
84	100		
56	148.3	104.7	157.1
41	99.3	69.0	103.6

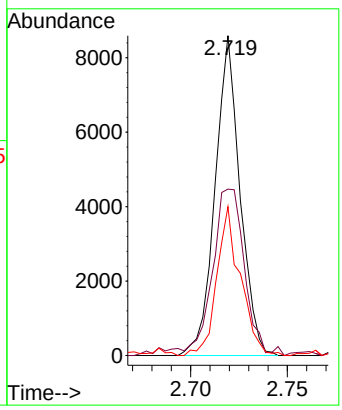




#31
cis-1,2-Dichloroethene
Concen: 0.536 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 61 Resp: 772

Ion	Ratio	Lower	Upper
61	100		
96	49.8	49.3	73.9
98	46.5	32.1	48.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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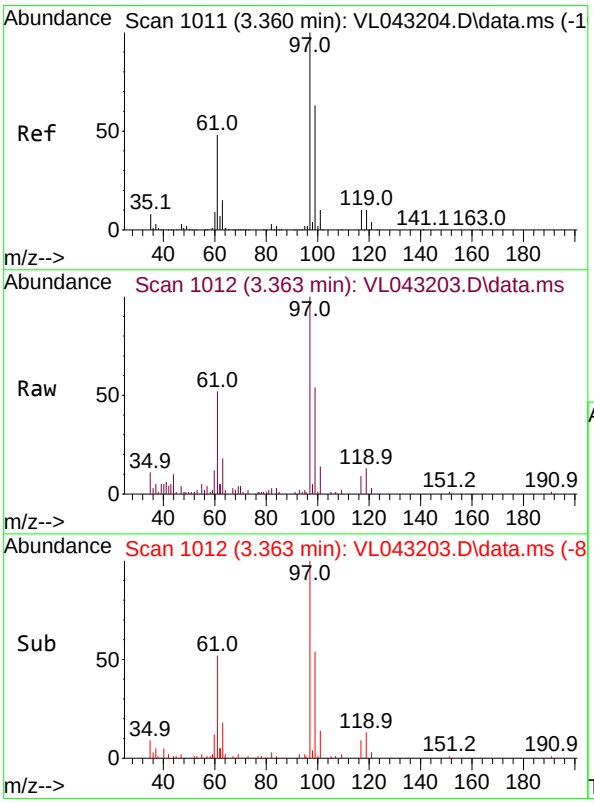
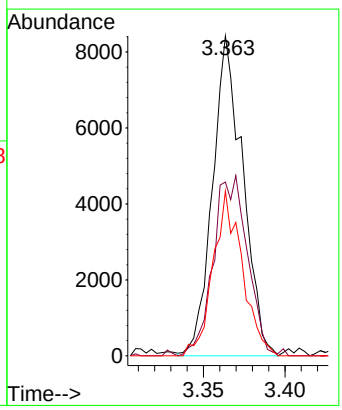
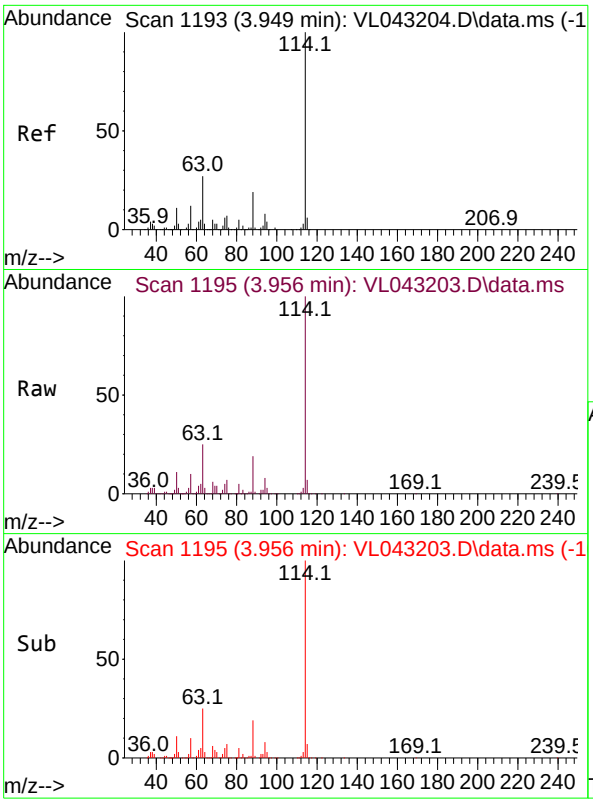


#32
1,1,1-Trichloroethane
Concen: 0.490 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 97 Resp: 10886

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.3	75.5
61	49.5	38.9	58.3

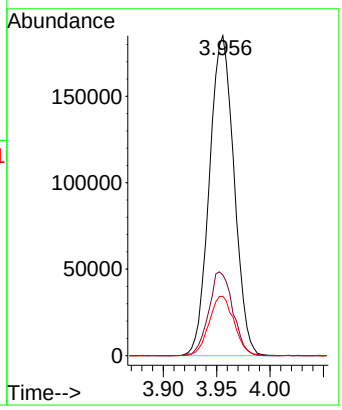




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:114 Resp: 29649

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.8	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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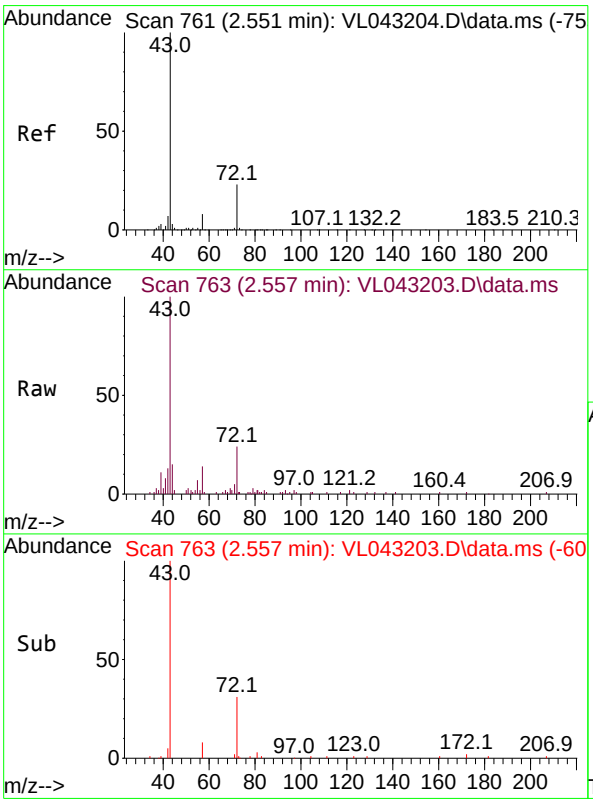
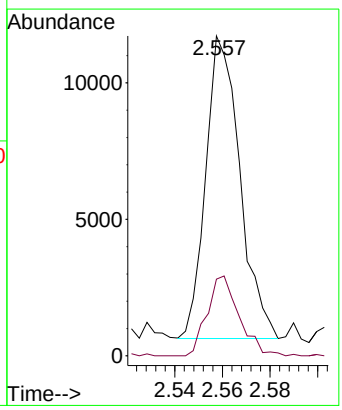
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

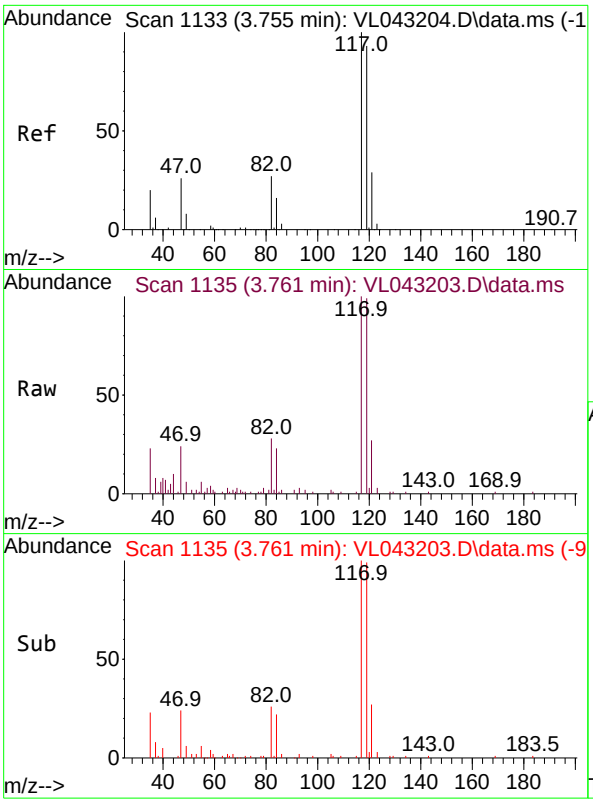


#34
2-Butanone
Concen: 0.527 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 11026

Ion	Ratio	Lower	Upper
43	100		
72	24.9	18.1	27.1

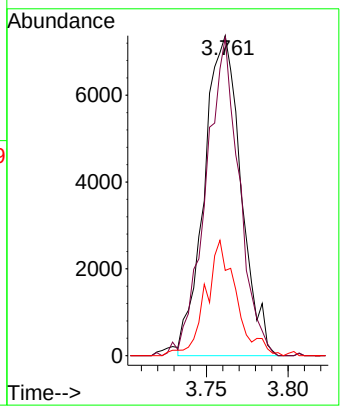




#35
Carbon Tetrachloride
Concen: 0.513 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:117 Resp: 1155

Ion	Ratio	Lower	Upper
117	100		
119	99.4	74.6	112.0
121	25.7	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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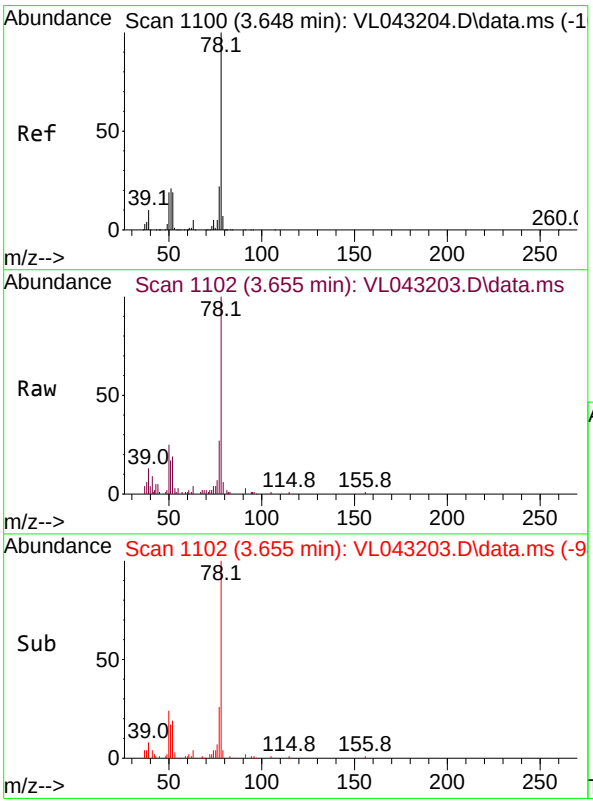
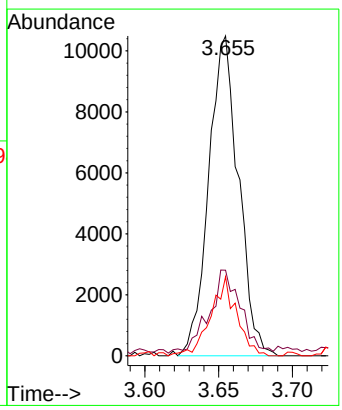
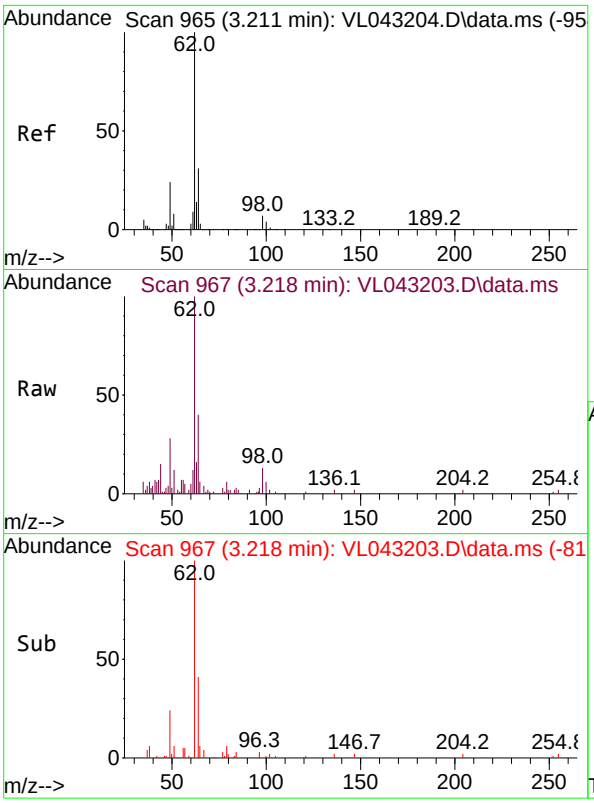


#36
Benzene
Concen: 0.520 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 78 Resp: 14759

Ion	Ratio	Lower	Upper
78	100		
77	24.6	17.5	26.3
50	24.7	15.5	23.3#

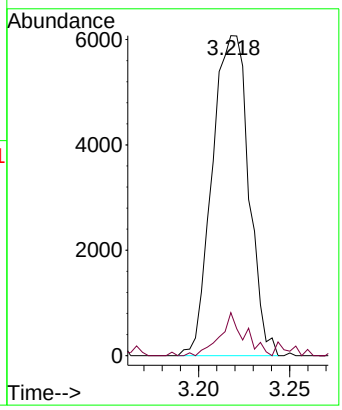




#37
1,2-Dichloroethane
Concen: 0.510 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 62 Resp: 847

Ion	Ratio	Lower	Upper
62	100		
98	9.2	5.5	8.3#



Instrument :
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ClientSampleId :
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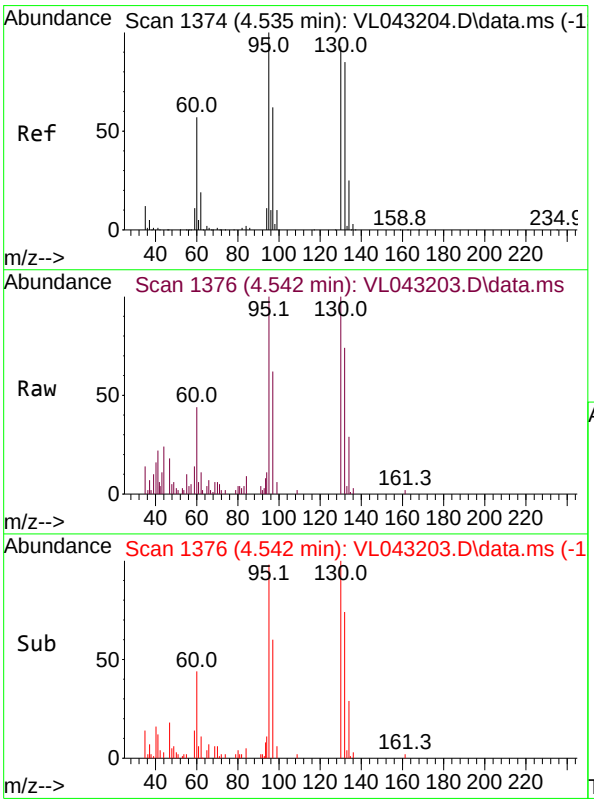
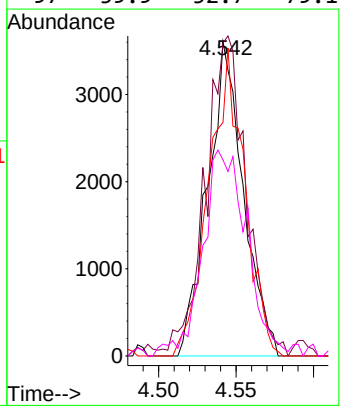
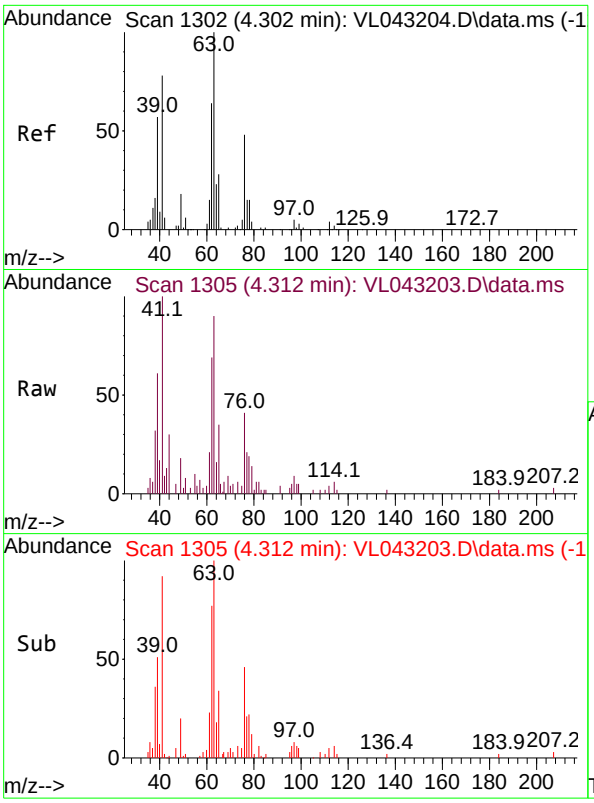


#38
Trichloroethene
Concen: 0.519 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:130 Resp: 5775

Ion	Ratio	Lower	Upper
130	100		
95	96.0	85.7	128.5
132	72.9	73.4	110.0#
97	59.9	52.7	79.1

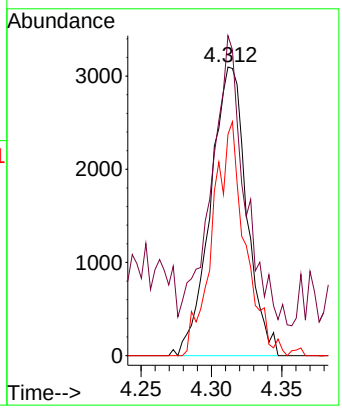




#39
1,2-Dichloropropane
Concen: 0.530 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 63 Resp: 551

Ion	Ratio	Lower	Upper
63	100		
41	98.4	62.6	93.8#
62	76.7	51.0	76.6#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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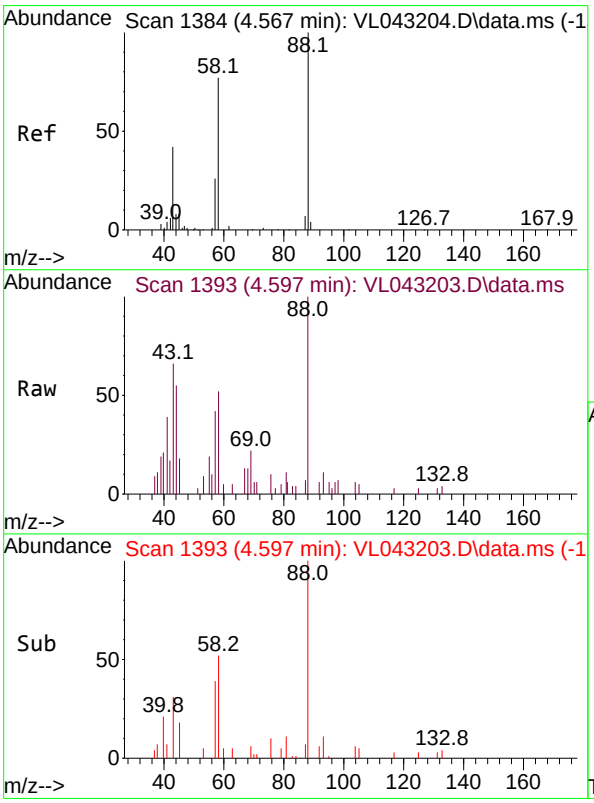
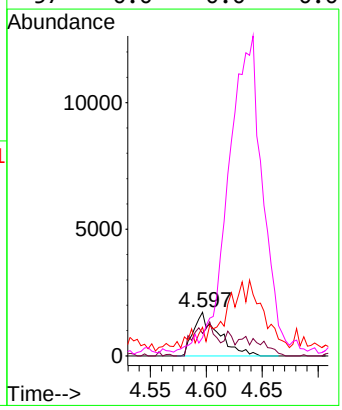
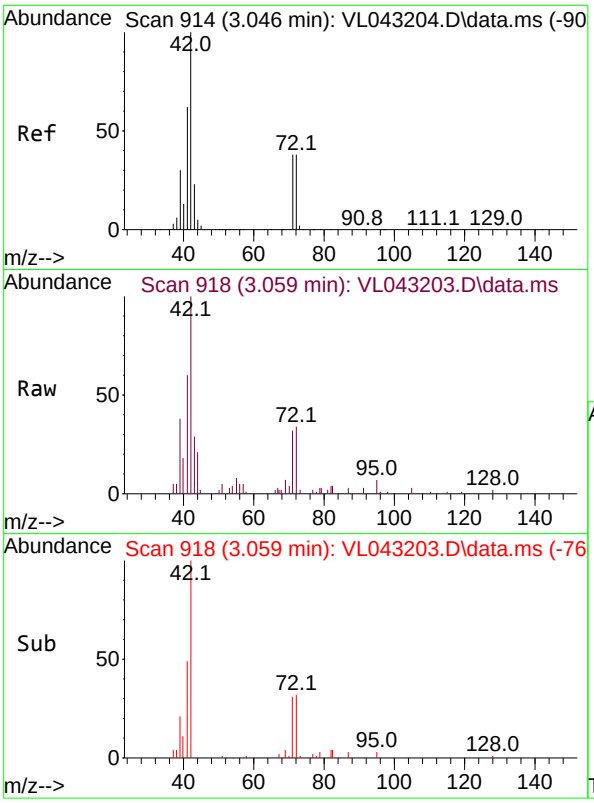


#40
1,4-Dioxane
Concen: 0.573 ppbv m
RT: 4.597 min Scan# 1393
Delta R.T. 0.029 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 88 Resp: 2675

Ion	Ratio	Lower	Upper
88	100		
58	0.0	63.0	94.6#
43	19.9	32.5	48.7#
57	0.0	0.0	0.0

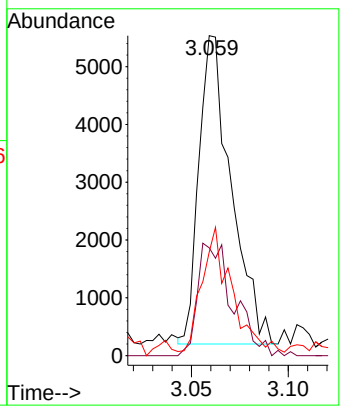




#41
Tetrahydrofuran
Concen: 0.536 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 42 Resp: 619

Ion	Ratio	Lower	Upper
42	100		
72	40.2	30.6	46.0
71	42.1	30.5	45.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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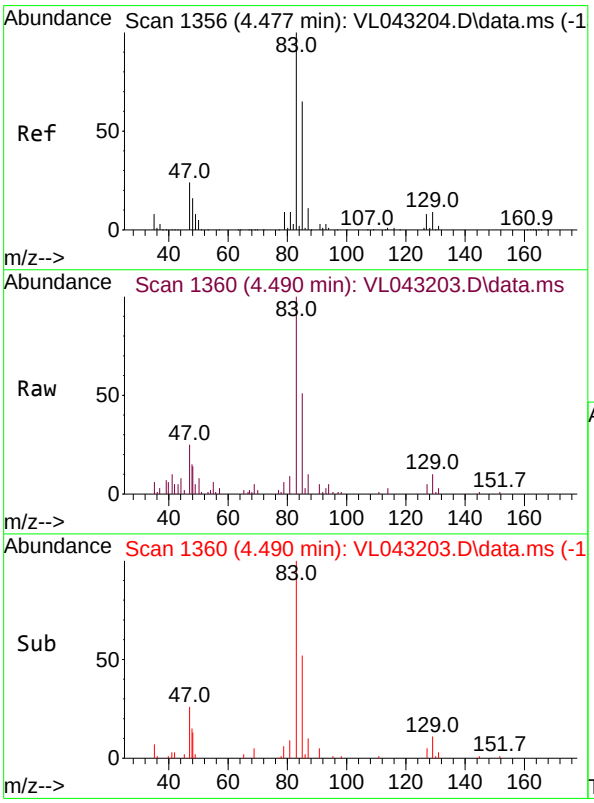
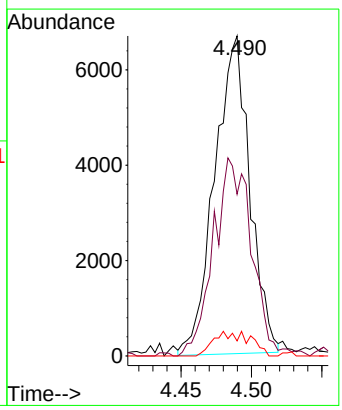
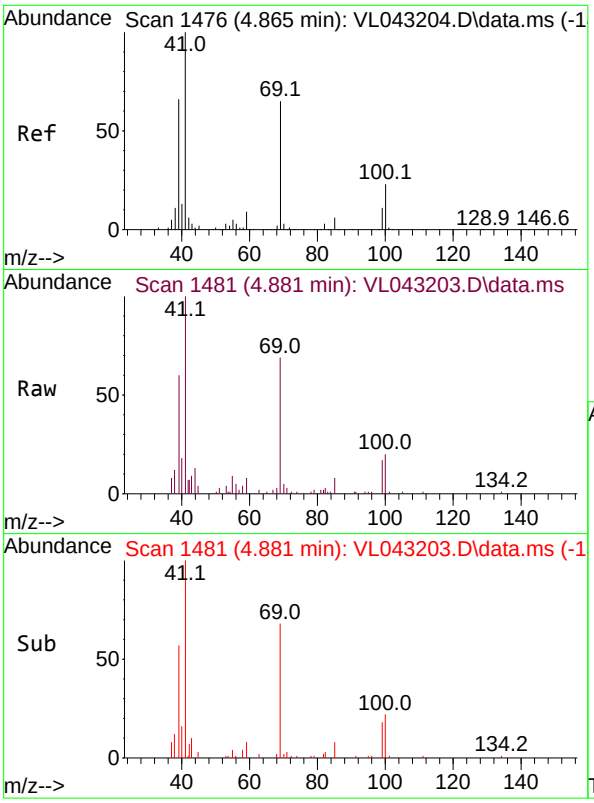


#42
Bromodichloromethane
Concen: 0.506 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 83 Resp: 11597

Ion	Ratio	Lower	Upper
83	100		
85	51.4	51.7	77.5#
127	4.8	6.3	9.5#

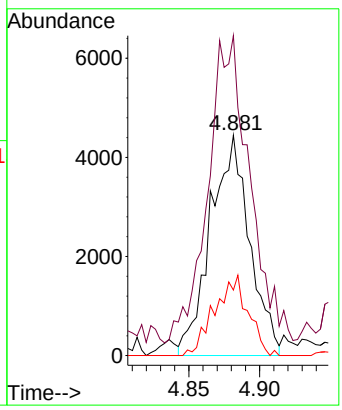




#43
Methyl Methacrylate
Concen: 0.566 ppbv m
RT: 4.881 min Scan# 14
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 69 Resp: 853

Ion	Ratio	Lower	Upper
69	100		
41	0.0	126.7	190.1#
100	0.0	28.6	43.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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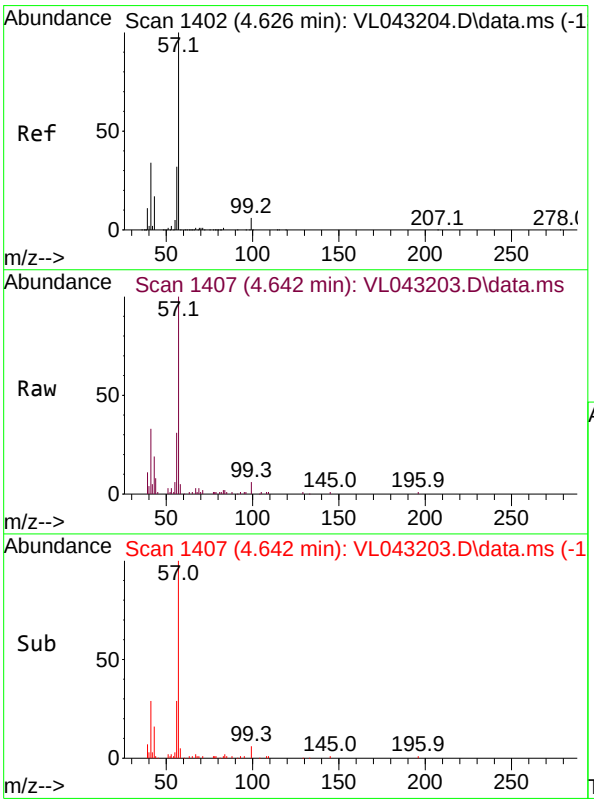
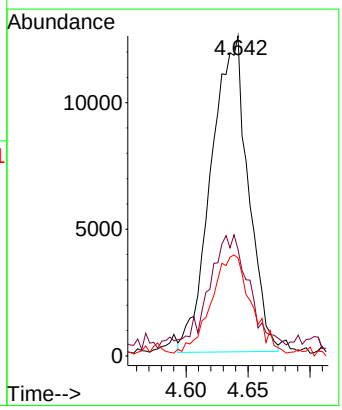
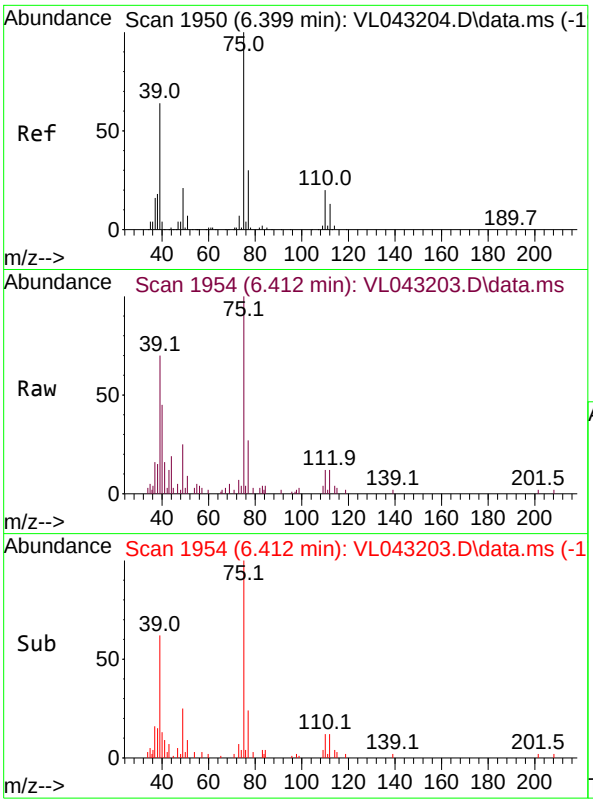


#44
2,2,4-Trimethylpentane
Concen: 0.531 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 57 Resp: 25890

Ion	Ratio	Lower	Upper
57	100		
41	36.2	28.0	42.0
56	36.9	25.6	38.4

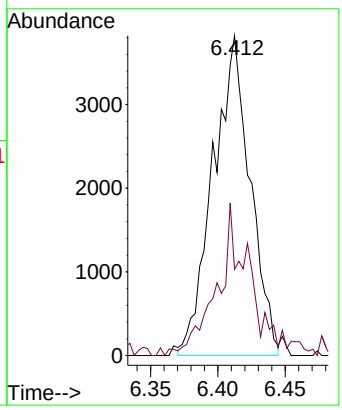




#45
t-1,3-Dichloropropene
Concen: 0.523 ppbv
RT: 6.412 min Scan# 19
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 75 Resp: 7343

Ion	Ratio	Lower	Upper
75	100		
77	26.9	24.3	36.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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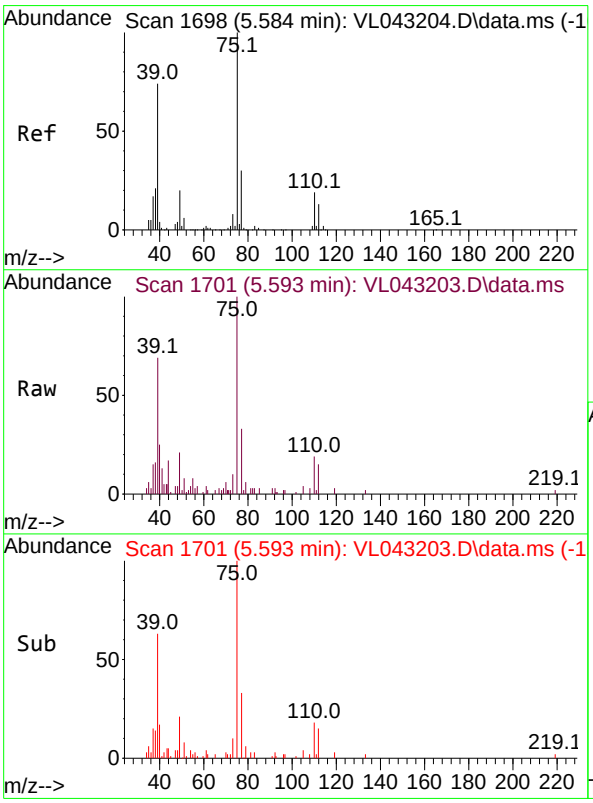
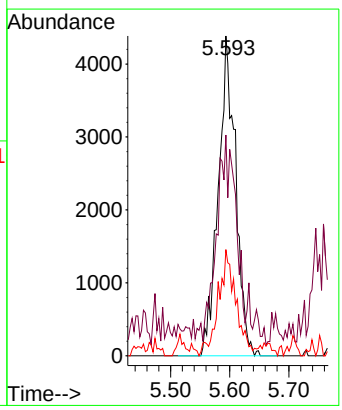
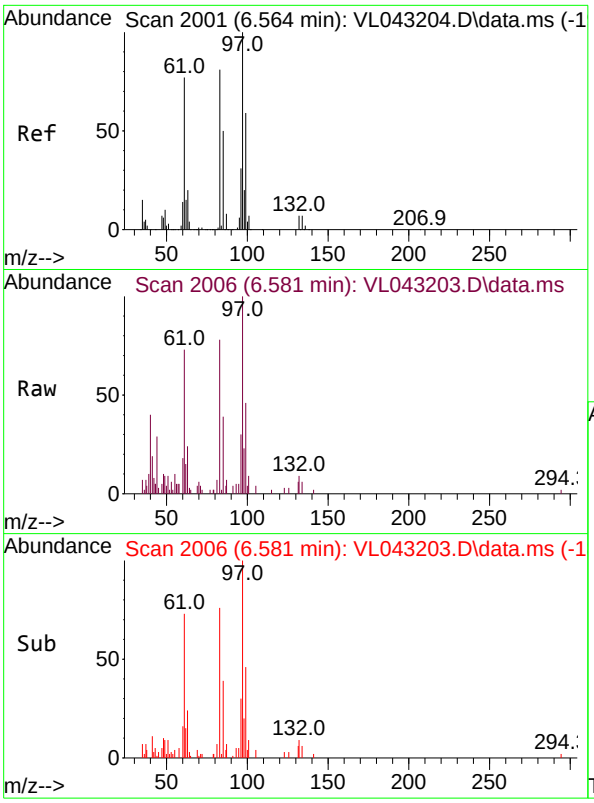


#46
cis-1,3-Dichloropropene
Concen: 0.539 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 75 Resp: 8886

Ion	Ratio	Lower	Upper
75	100		
39	69.0	59.1	88.7
77	33.2	24.2	36.2

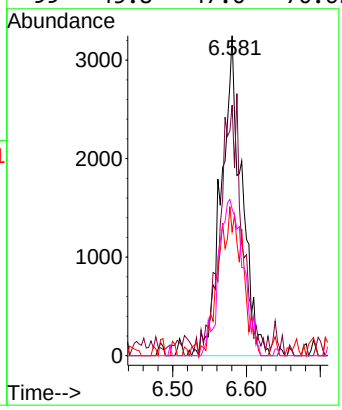




#47
1,1,2-Trichloroethane
Concen: 0.567 ppbv m
RT: 6.581 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 97 Resp: 628

Ion	Ratio	Lower	Upper
97	100		
83	78.3	64.6	97.0
85	38.7	39.4	59.2#
99	45.8	47.0	70.6#



Instrument :
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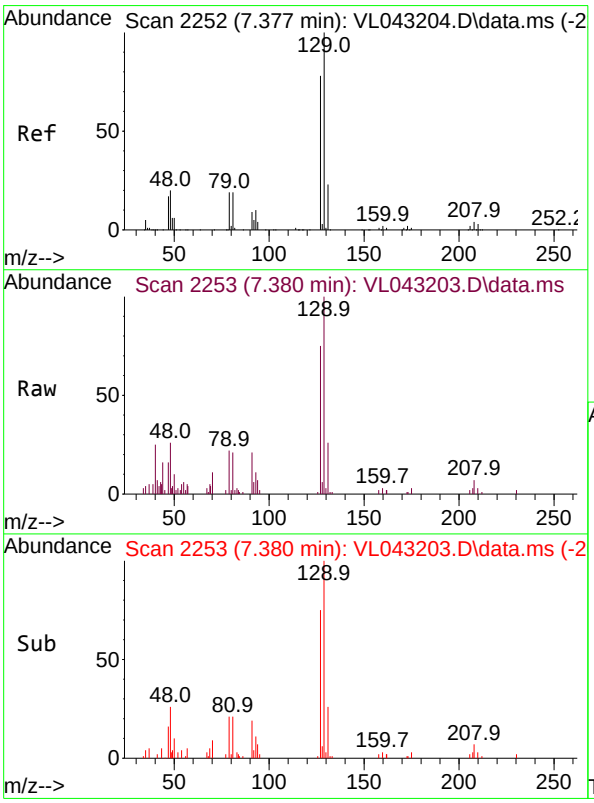
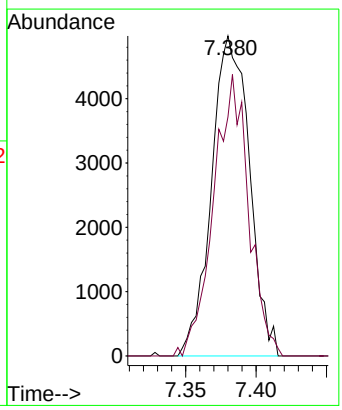
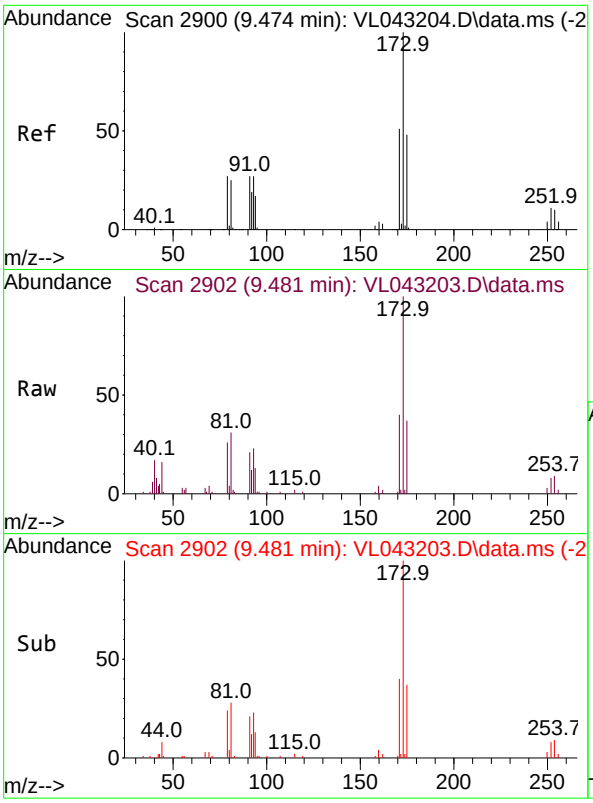


#48
Dibromochloromethane
Concen: 0.492 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:129 Resp: 9327

Ion	Ratio	Lower	Upper
129	100		
127	80.8	39.3	117.9

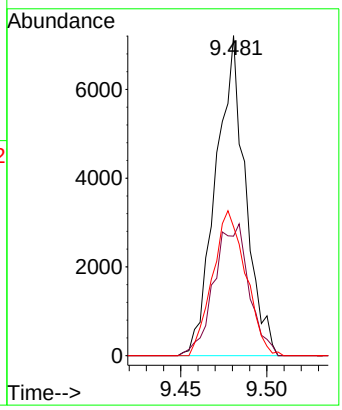




#49
Bromoform
Concen: 0.514 ppbv
RT: 9.481 min Scan# 29
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:173 Resp: 863

Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.6	58.0
171	50.9	40.6	61.0



Instrument :
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ClientSampleId :
VSTDICC0.5

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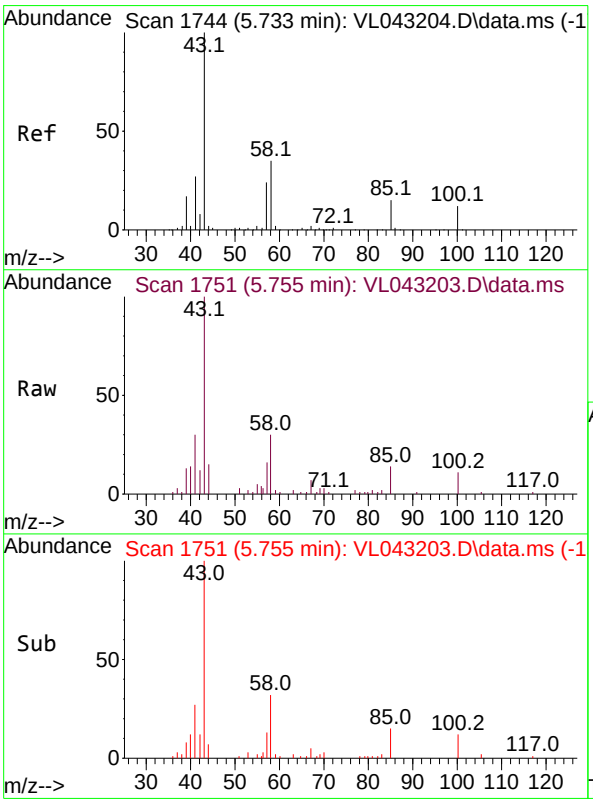
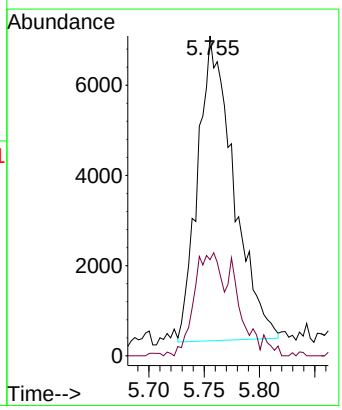
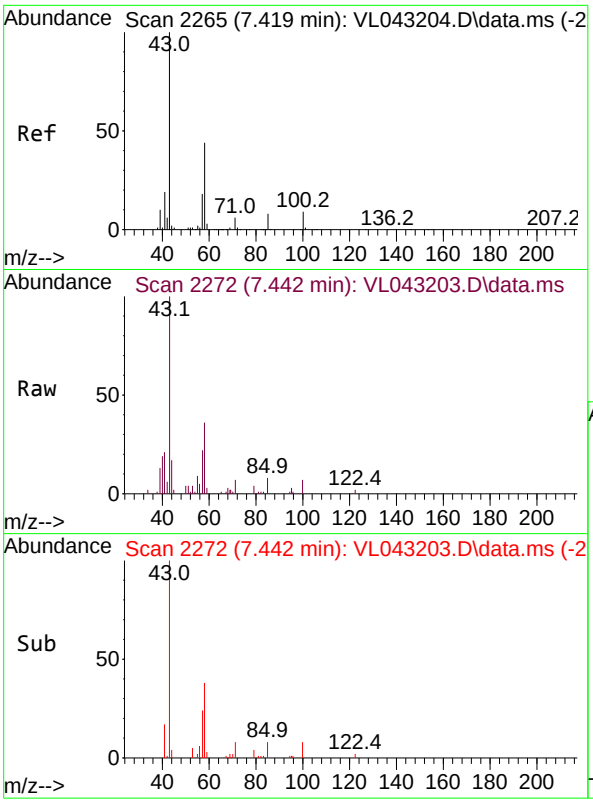


#50
4-Methyl-2-Pentanone
Concen: 0.515 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.023 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 15190

Ion	Ratio	Lower	Upper
43	100		
58	40.3	28.4	42.6





#51
2-Hexanone
Concen: 0.506 ppbv
RT: 7.442 min Scan# 2
Delta R.T. 0.023 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 1159

Ion	Ratio	Lower	Upper
43	100		
58	52.6	38.4	57.6
98	0.7	0.0	0.0#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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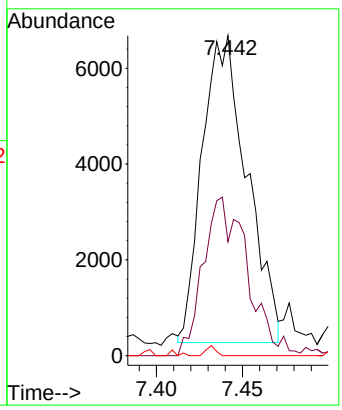
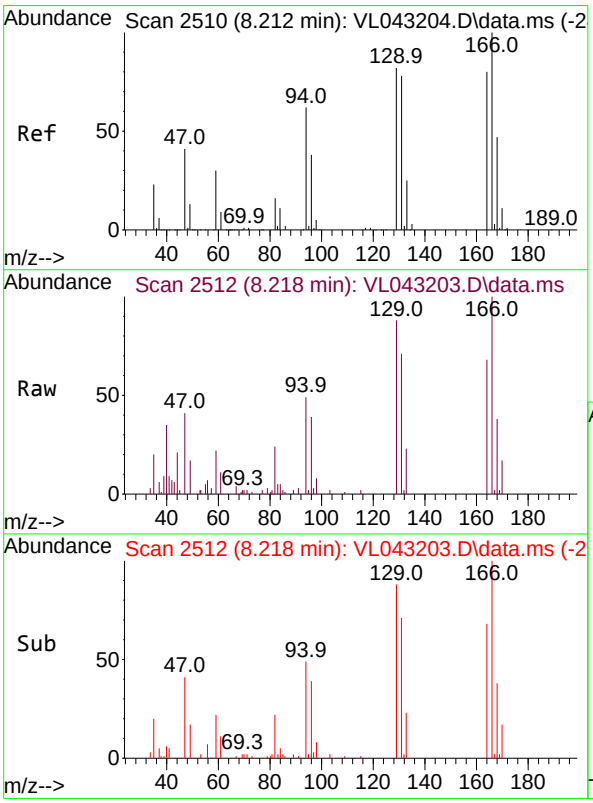
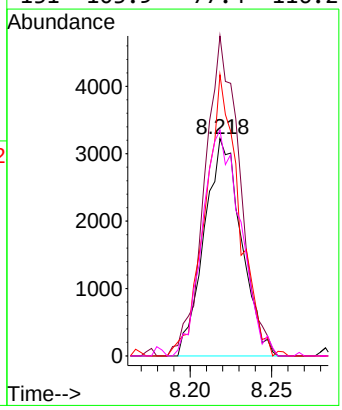


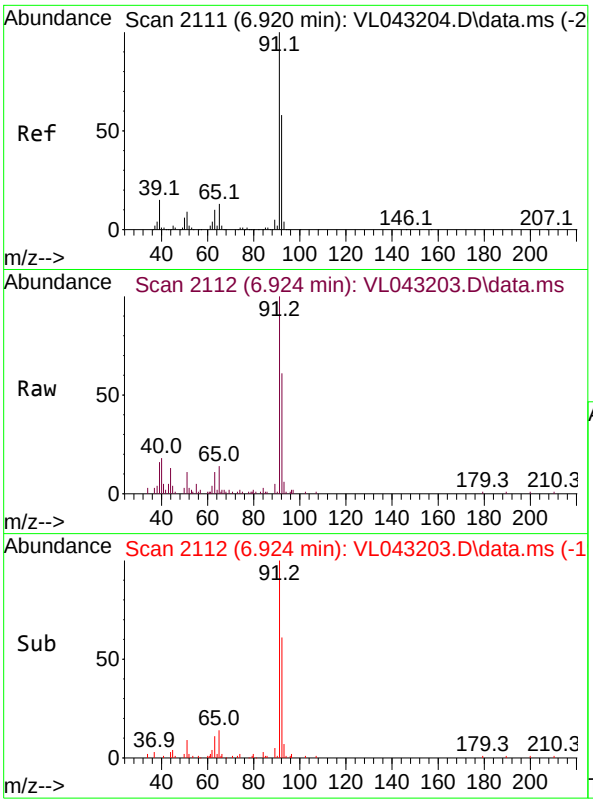


#52
Tetrachloroethene
Concen: 0.483 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:164 Resp: 5097

Ion	Ratio	Lower	Upper
164	100		
166	147.2	99.4	149.2
129	127.2	81.8	122.8#
131	103.9	77.4	116.2

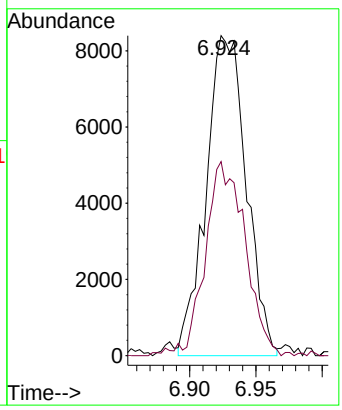




#53
Toluene
Concen: 0.525 ppbv m
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 1775

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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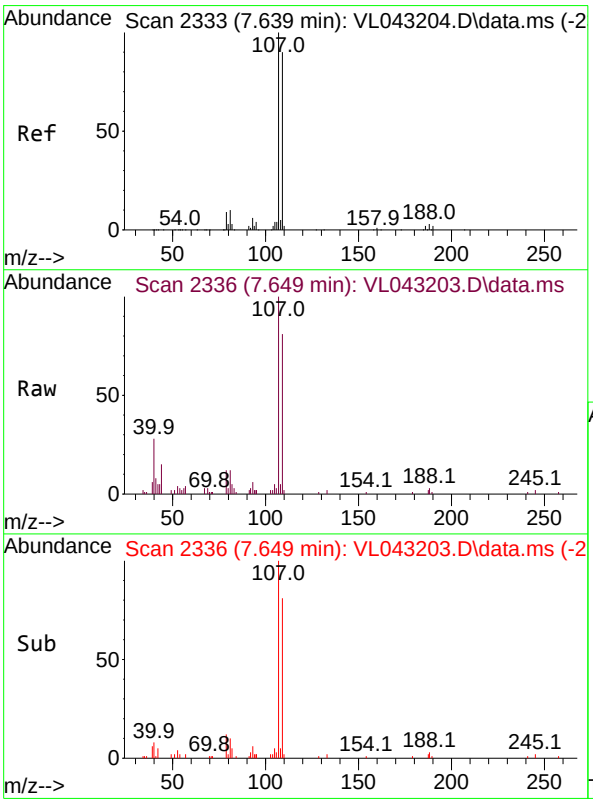
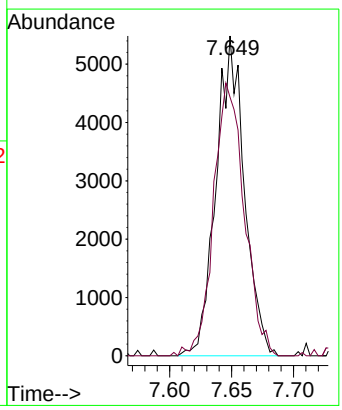
Supervised By :Mahesh Dadoda 11/19/2025

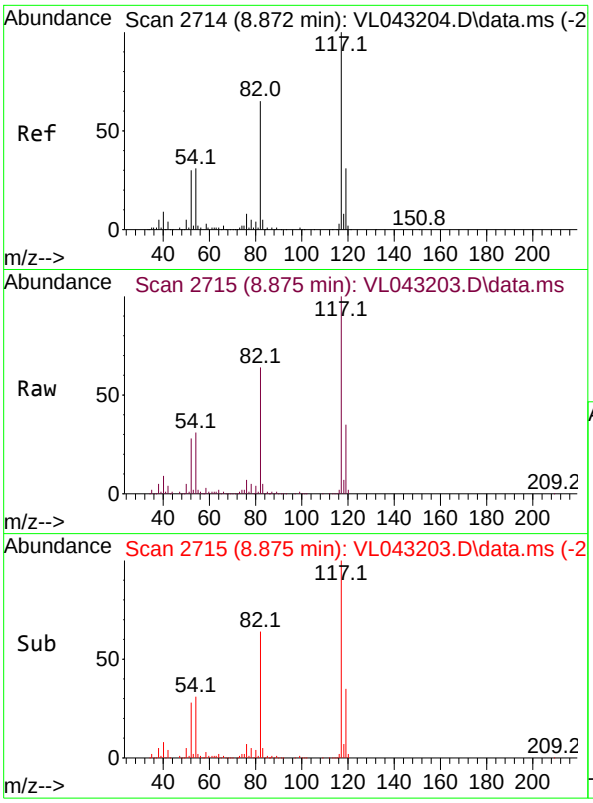


#54
1,2-Dibromoethane
Concen: 0.537 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:107 Resp: 8708

Ion	Ratio	Lower	Upper
107	100		
109	80.8	72.1	108.1

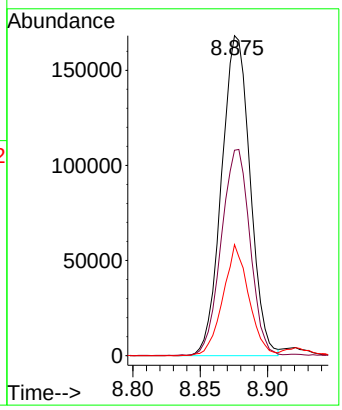




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:117 Resp: 24776

Ion	Ratio	Lower	Upper
117	100		
82	65.5	56.1	84.1
119	31.6	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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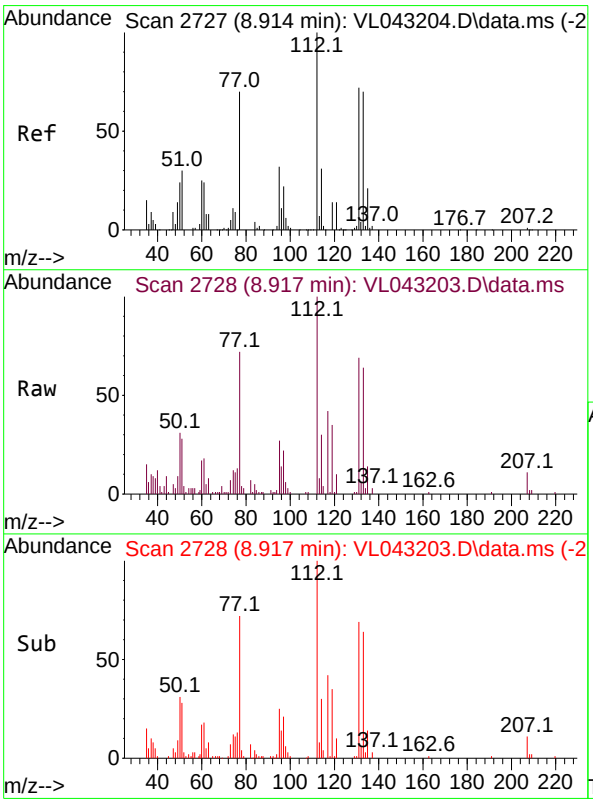
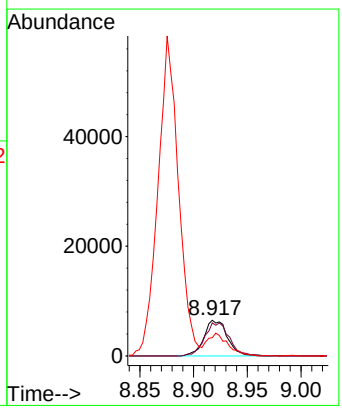
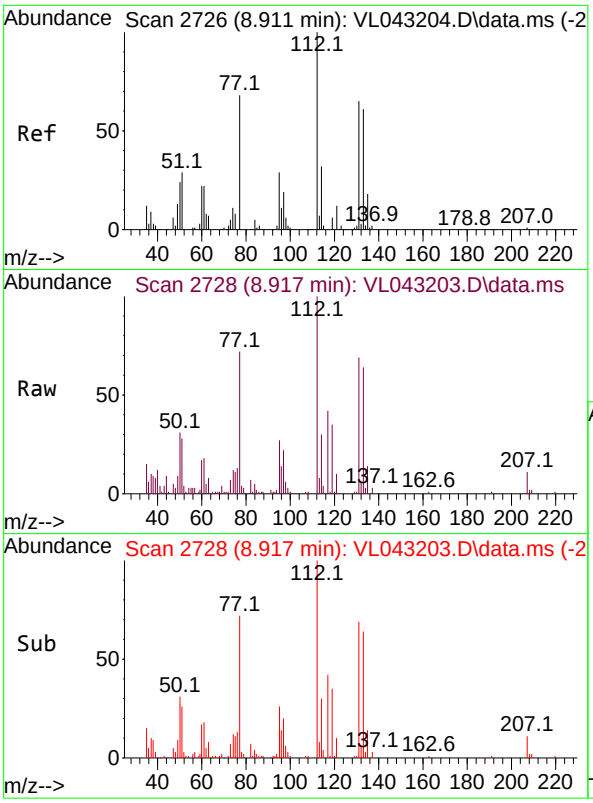


#56
1,1,1,2-Tetrachloroethane
Concen: 0.538 ppbv m
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:131 Resp: 9793

Ion	Ratio	Lower	Upper
131	100		
133	98.4	77.4	116.2
119	50.6	49.1	73.7

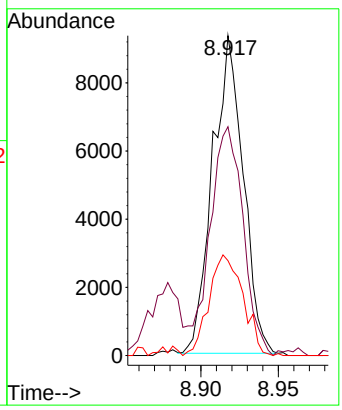




#57
Chlorobenzene
Concen: 0.504 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:112 Resp: 1281

Ion	Ratio	Lower	Upper
112	100		
77	69.0	55.5	83.3
114	29.2	29.1	35.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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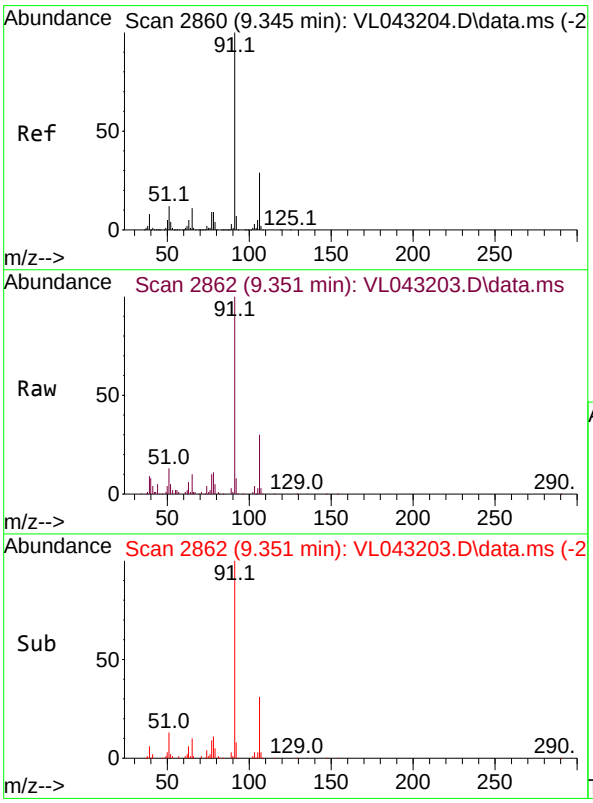
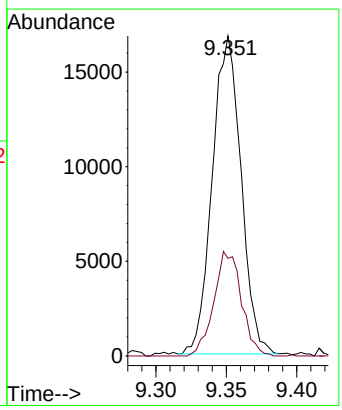
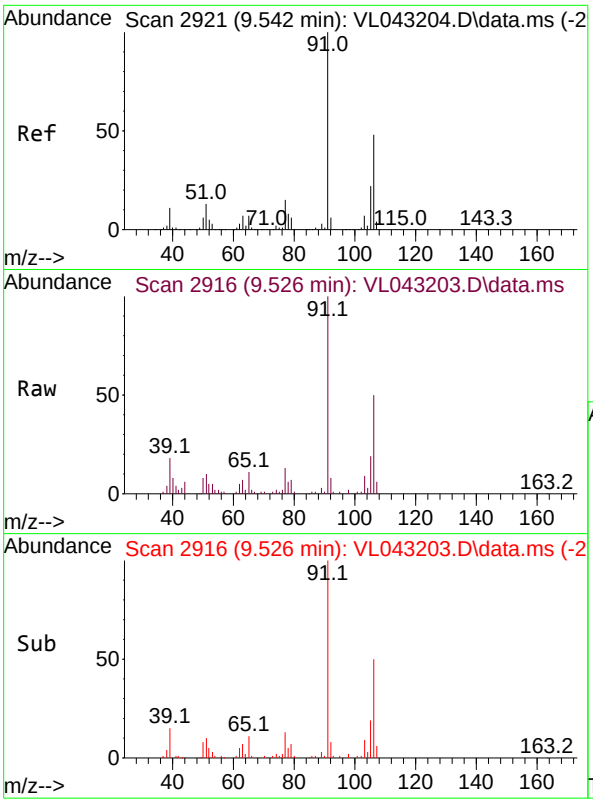


#58
Ethyl Benzene
Concen: 0.500 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 23866

Ion	Ratio	Lower	Upper
91	100		
106	30.7	22.8	34.2





#59
m/p-Xylene
Concen: 1.044 ppbv m
RT: 9.526 min Scan# 29
Delta R.T. -0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 4007

Ion	Ratio	Lower	Upper
91	100		
106	46.0	36.1	54.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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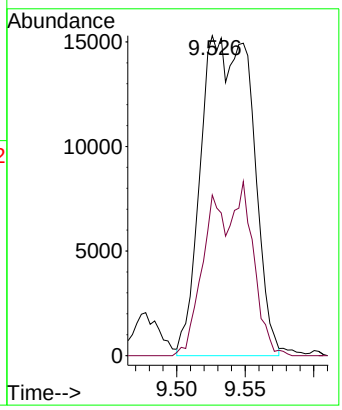
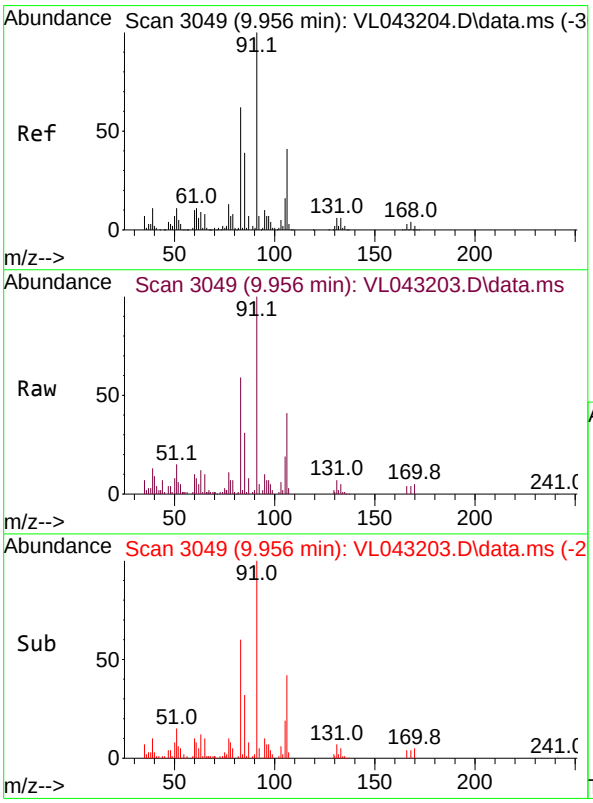
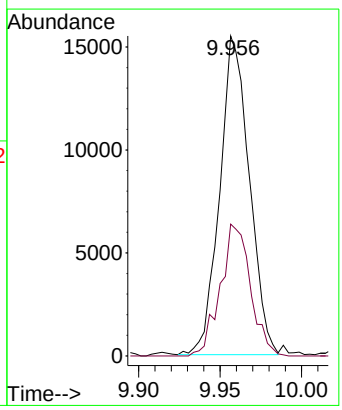


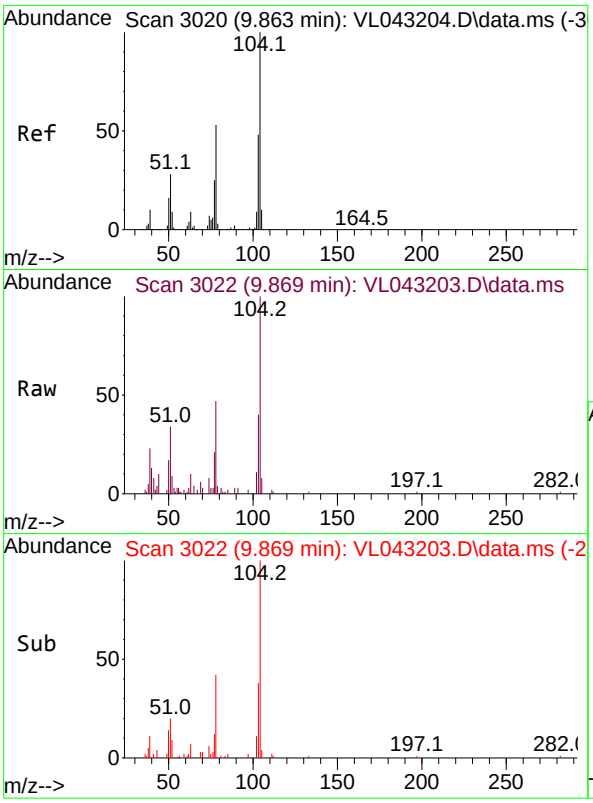


#60
o-Xylene
Concen: 0.514 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 19621

Ion	Ratio	Lower	Upper
91	100		
106	42.0	20.9	62.8

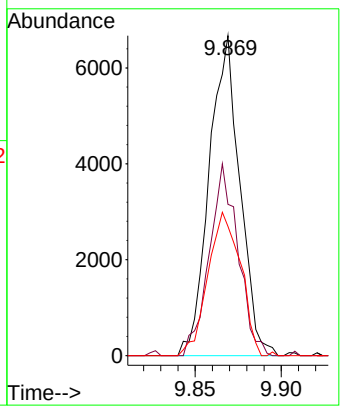




#61
Styrene
Concen: 0.496 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:104 Resp: 828

Ion	Ratio	Lower	Upper
104	100		
78	56.3	42.1	63.1
103	47.8	37.2	55.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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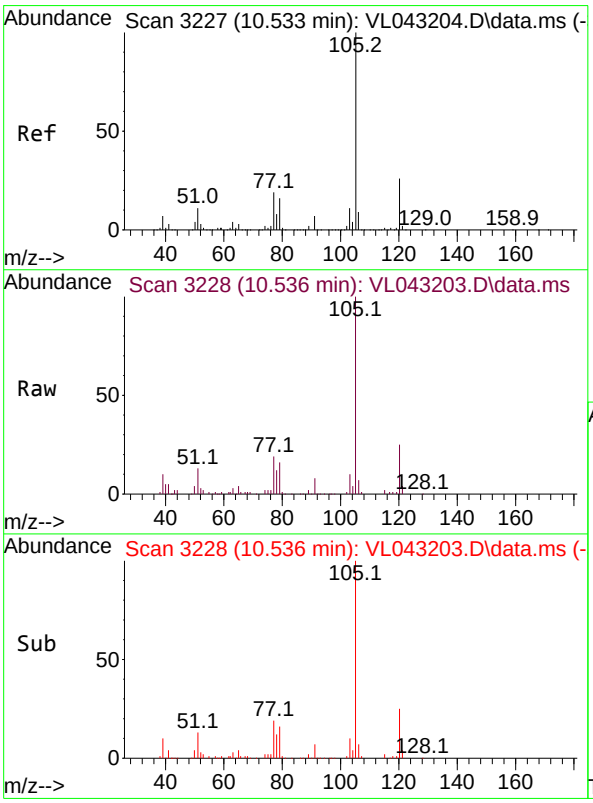
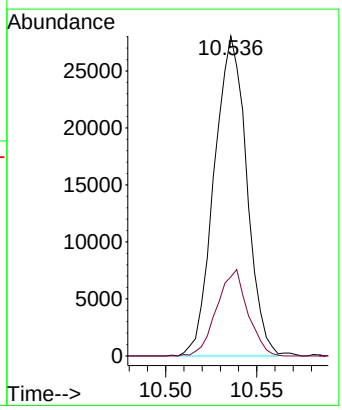
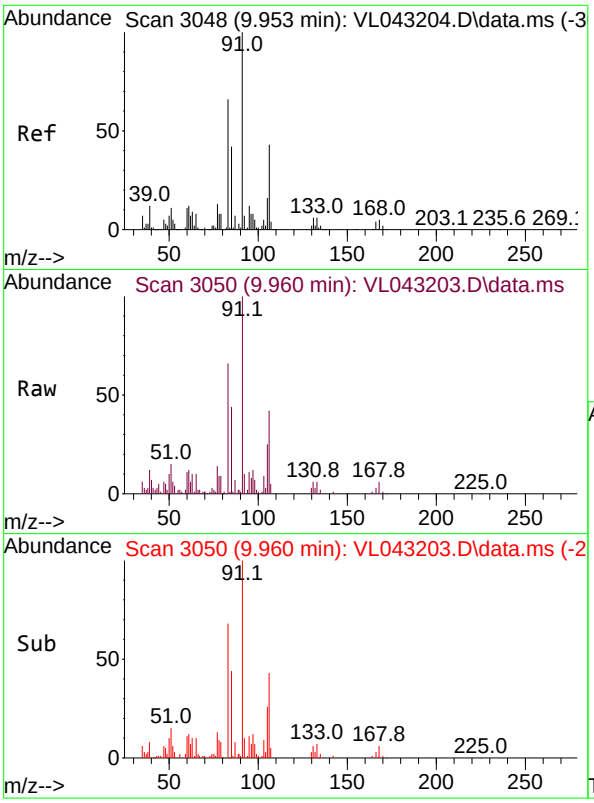


#62
Isopropylbenzene
Concen: 0.509 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 34773

Ion	Ratio	Lower	Upper
105	100		
120	25.6	19.8	29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 0.519 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 83 Resp: 1259

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.3
85	64.0	31.9	95.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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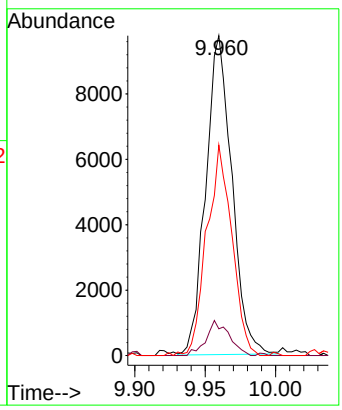
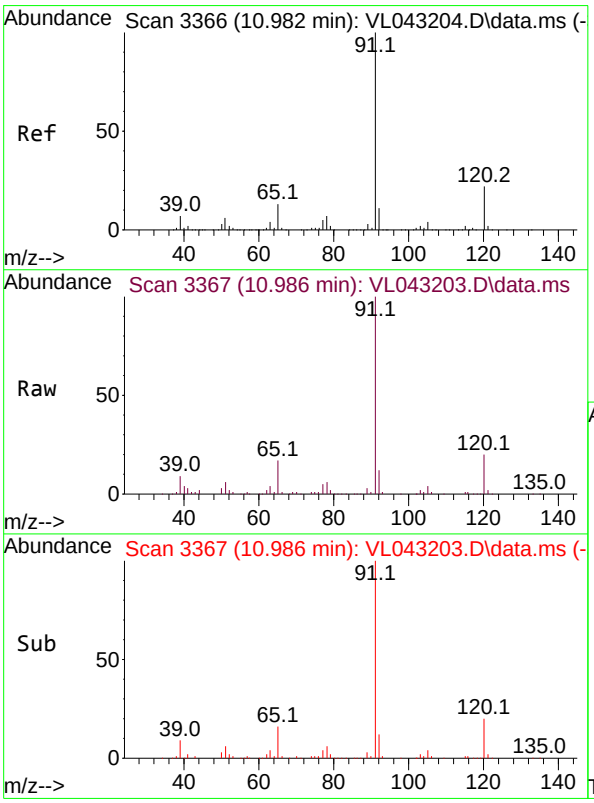
Supervised By :Mahesh Dadoda 11/19/2025

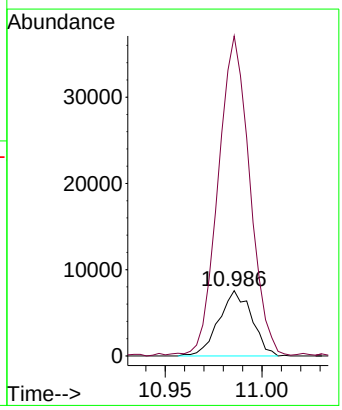


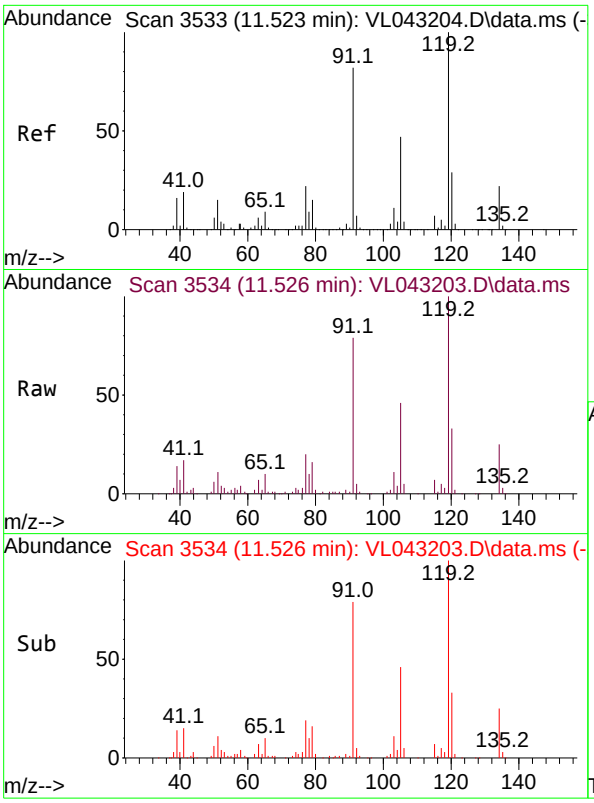


#64
n-propylbenzene
Concen: 0.509 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:120 Resp: 8945

Ion	Ratio	Lower	Upper
120	100		
91	472.3	377.1	565.7

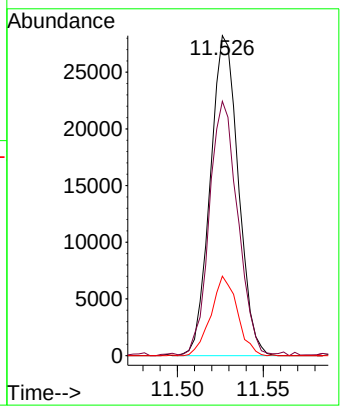




#65
tert-Butylbenzene
Concen: 0.524 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:119 Resp: 3199

Ion	Ratio	Lower	Upper
119	100		
91	81.6	65.3	97.9
134	23.4	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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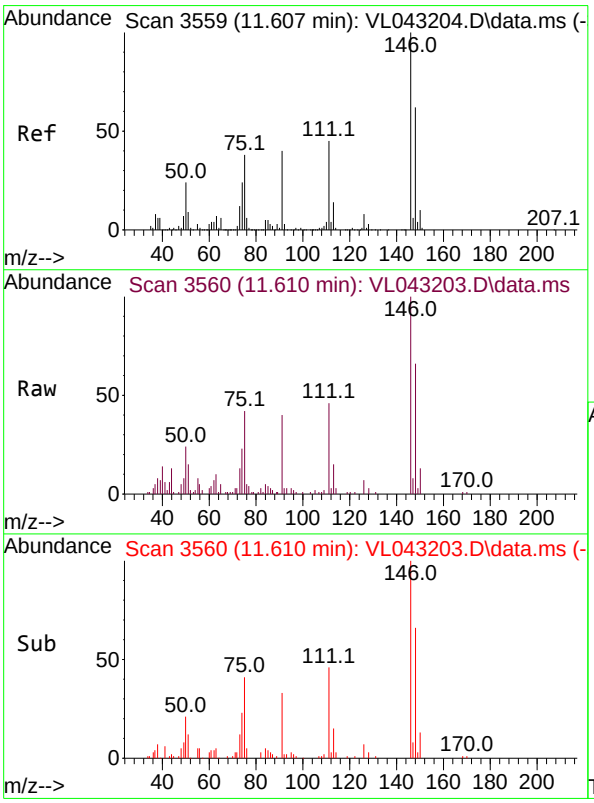
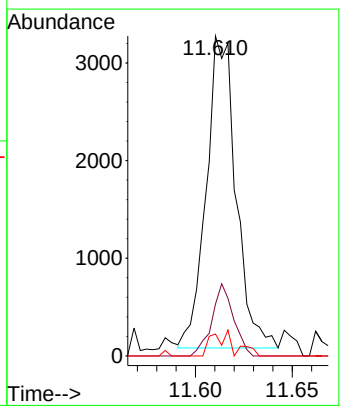
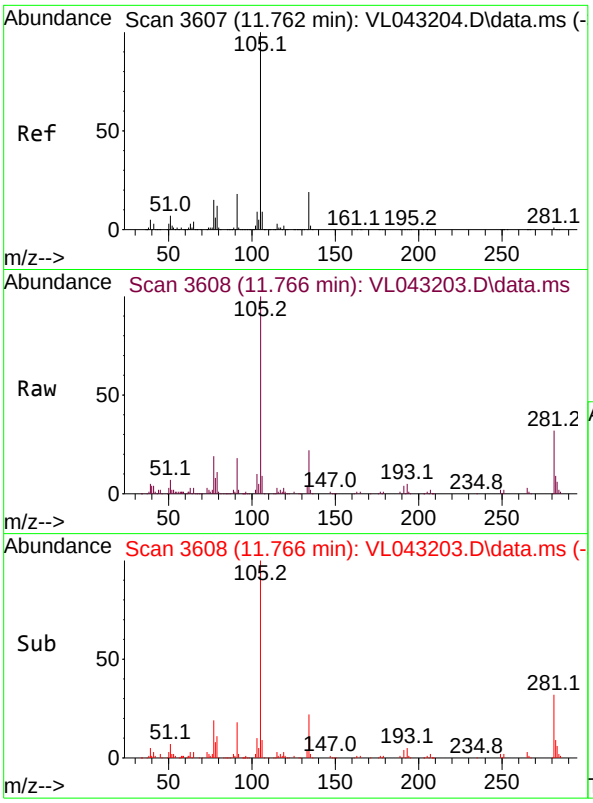


#66
Benzyl Chloride
Concen: 0.550 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 3403

Ion	Ratio	Lower	Upper
91	100		
126	16.8	14.4	21.6
128	6.1	4.6	6.8

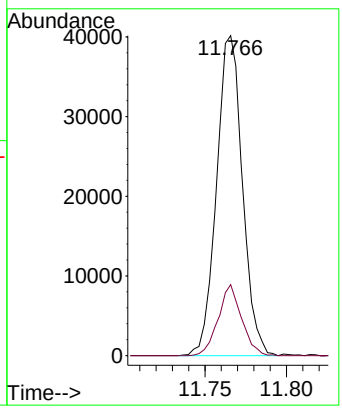




#67
sec-Butylbenzene
Concen: 0.522 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 4444

Ion	Ratio	Lower	Upper
105	100		
134	20.0	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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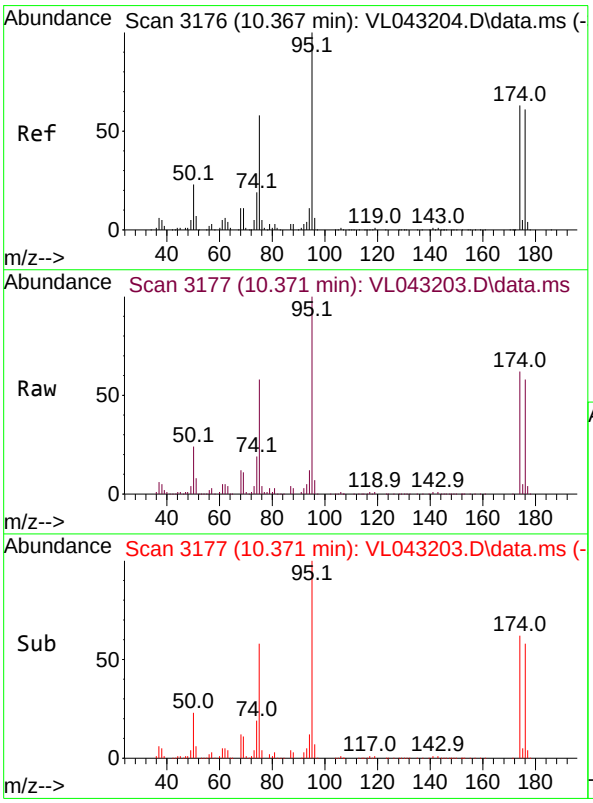
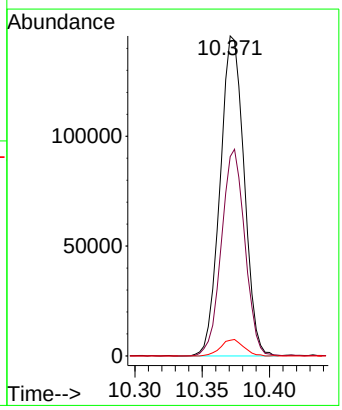
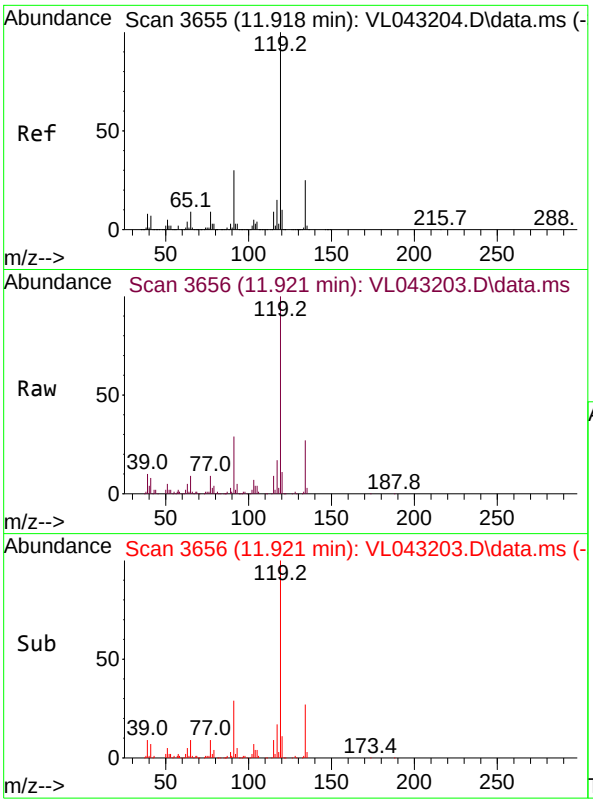


#68
1-Bromo-4-Fluorobenzene
Concen: 9.941 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 95 Resp: 180529

Ion	Ratio	Lower	Upper
95	100		
174	63.2	50.2	75.2
175	4.9	4.1	6.1

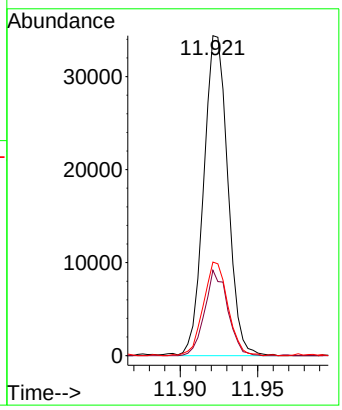




#69
p-Isopropyltoluene
Concen: 0.514 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:119 Resp: 3708

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.2	30.2
91	29.9	23.8	35.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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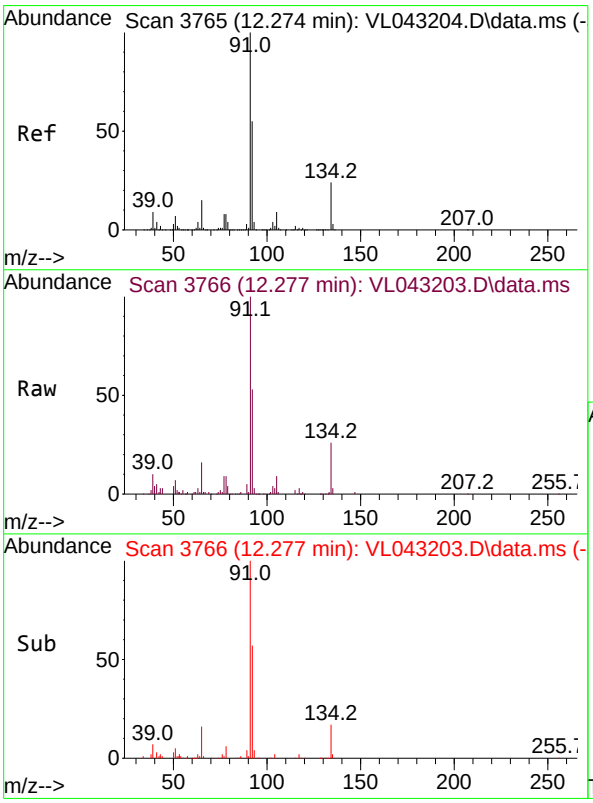
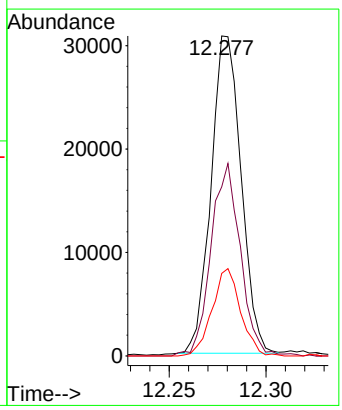
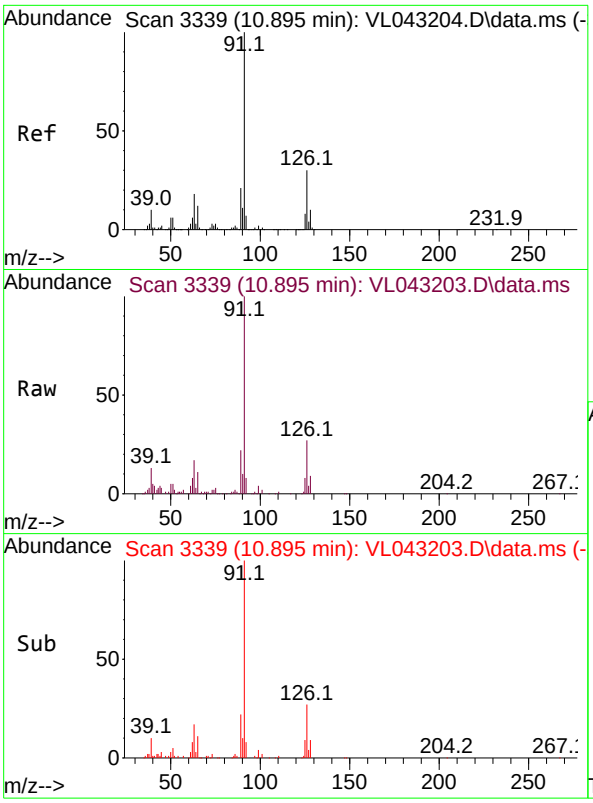


#70
n-Butylbenzene
Concen: 0.474 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 33153

Ion	Ratio	Lower	Upper
91	100		
92	59.3	43.5	65.3
134	26.3	19.0	28.6

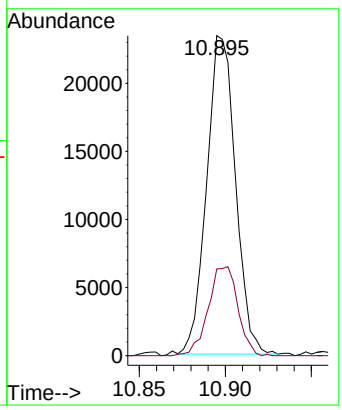




#71
2-Chlorotoluene
Concen: 0.518 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 2722

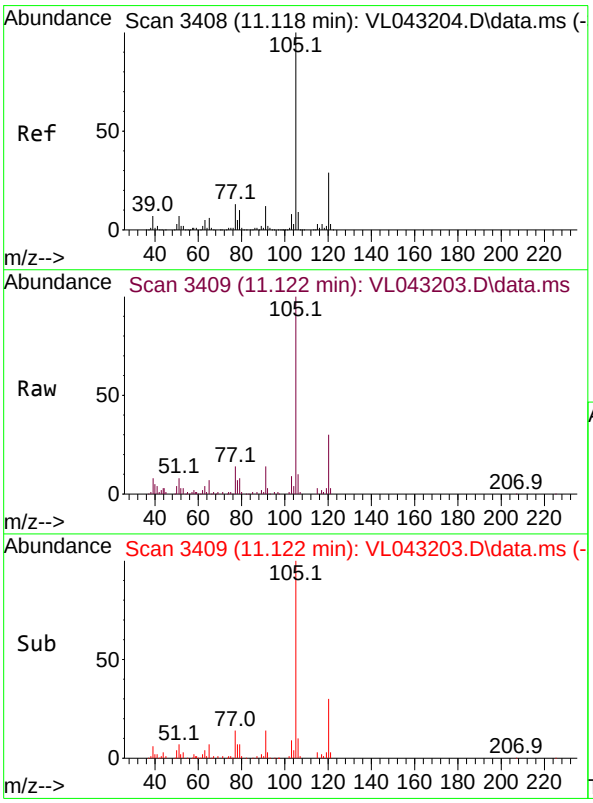
Ion	Ratio	Lower	Upper
91	100		
126	28.6	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

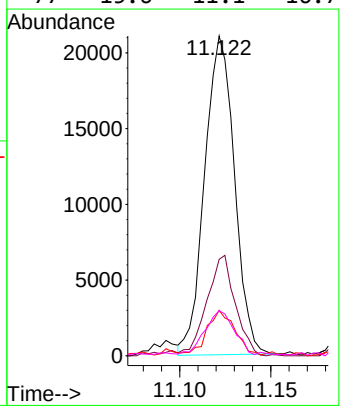
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

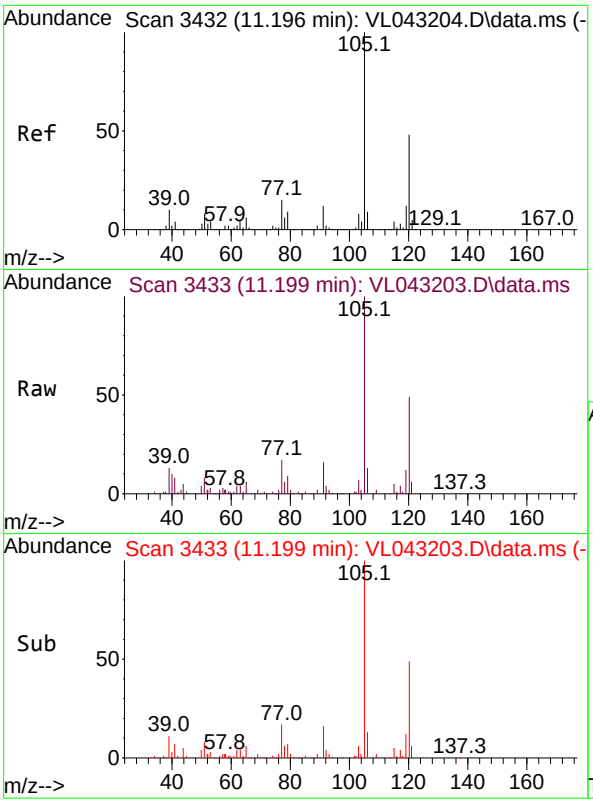


#72
4-Ethyltoluene
Concen: 0.515 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 23963

Ion	Ratio	Lower	Upper
105	100		
120	31.3	23.8	35.8
91	14.6	10.3	15.5
77	15.6	11.1	16.7

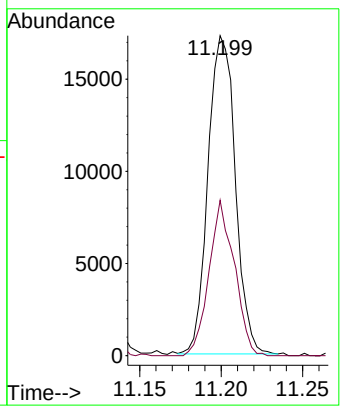




#73
1,3,5-Trimethylbenzene
Concen: 0.515 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 2010

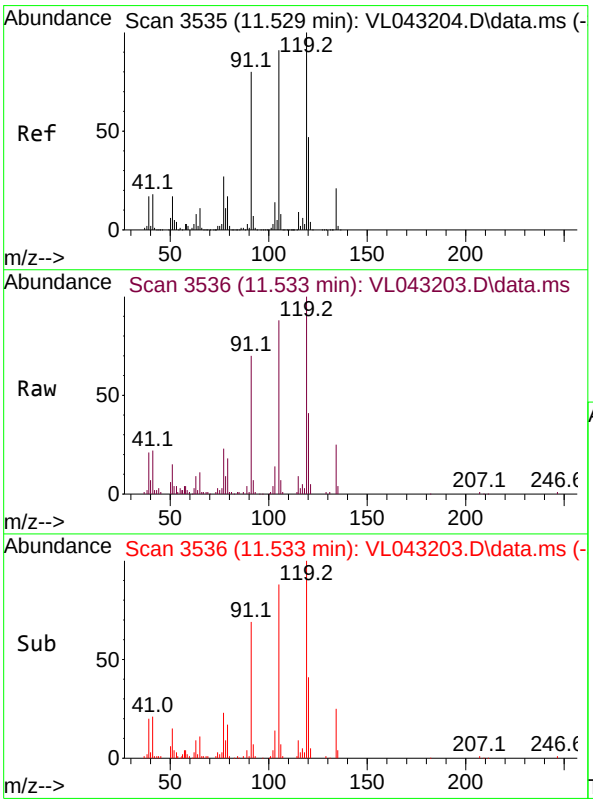
Ion	Ratio	Lower	Upper
105	100		
120	48.8	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

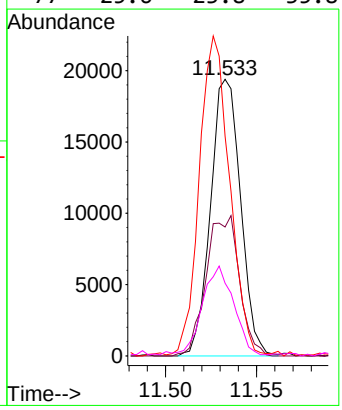
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

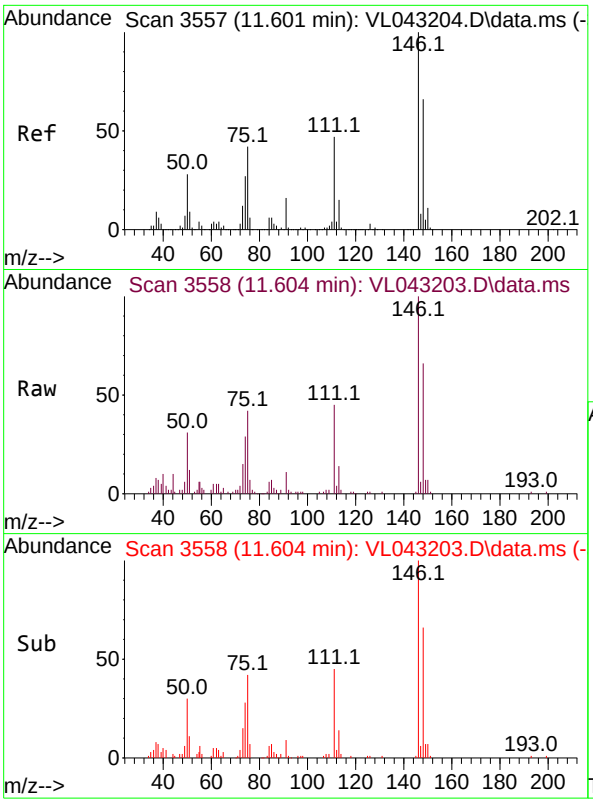


#74
1,2,4-Trimethylbenzene
Concen: 0.522 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 22254

Ion	Ratio	Lower	Upper
105	100		
120	46.6	41.7	62.5
91	77.8	70.0	105.0
77	25.6	23.8	35.8

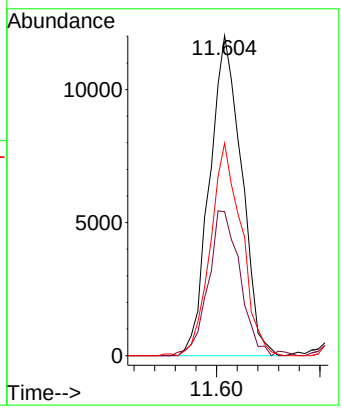




#75
1,3-Dichlorobenzene
Concen: 0.520 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:146 Resp: 1292

Ion	Ratio	Lower	Upper
146	100		
111	45.1	23.4	70.3
148	64.7	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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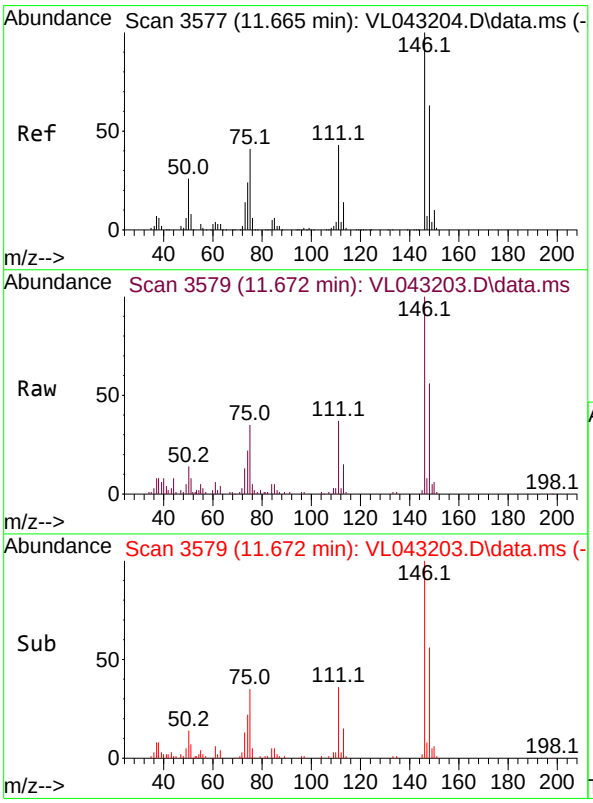
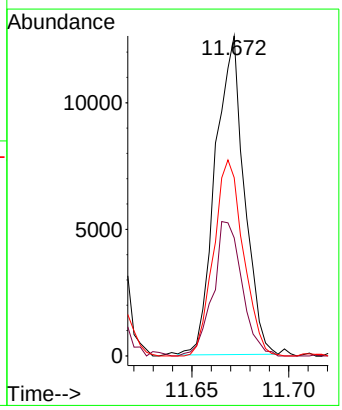
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

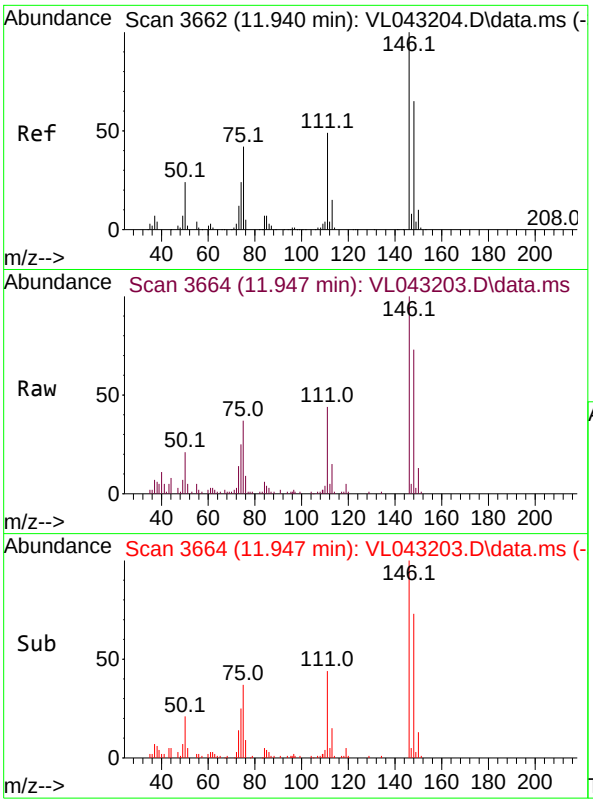


#76
1,4-Dichlorobenzene
Concen: 0.526 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:146 Resp: 13076

Ion	Ratio	Lower	Upper
146	100		
111	42.1	22.8	68.3
148	63.8	31.8	95.4

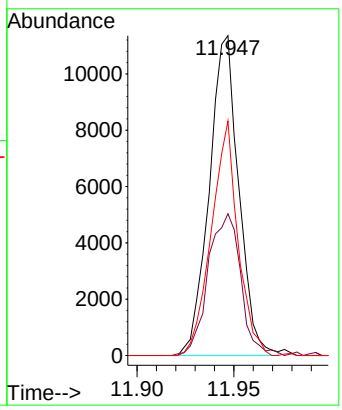




#77
1,2-Dichlorobenzene
Concen: 0.505 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:146 Resp: 1206

Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.3	73.0
148	66.3	31.6	94.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
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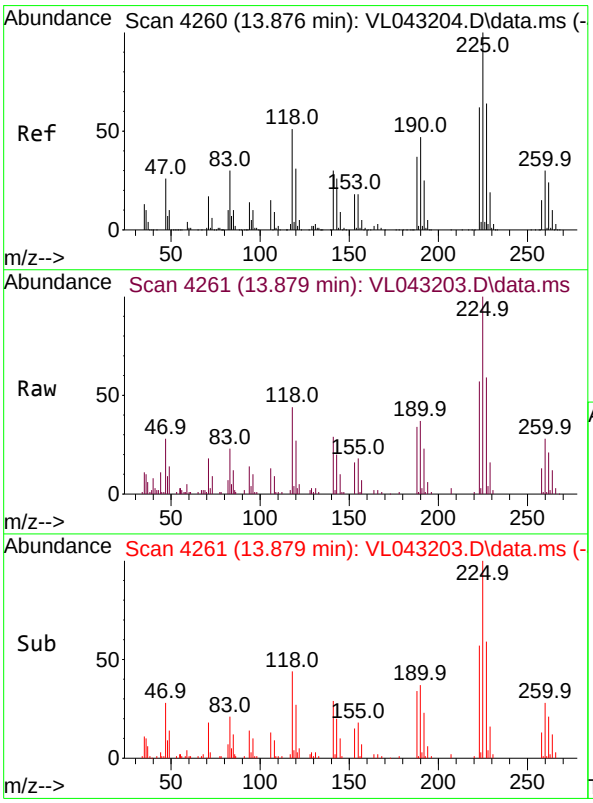
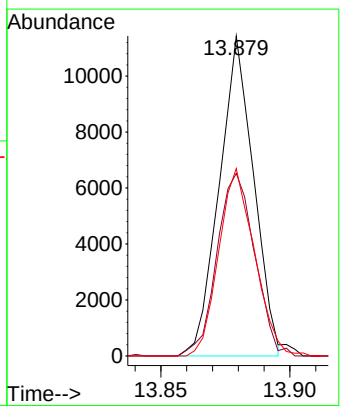
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

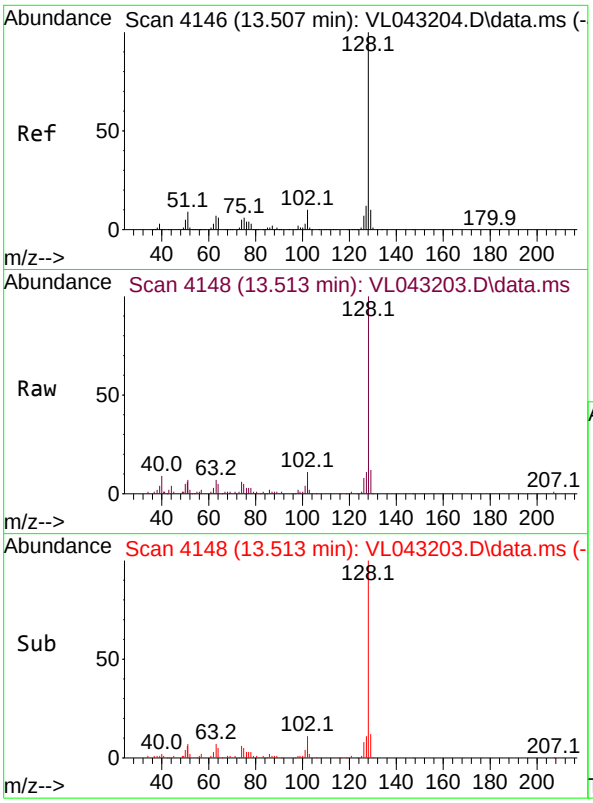


#78
Hexachloro-1,3-Butadiene
Concen: 0.530 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:225 Resp: 10578

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.4
227	61.0	51.1	76.7

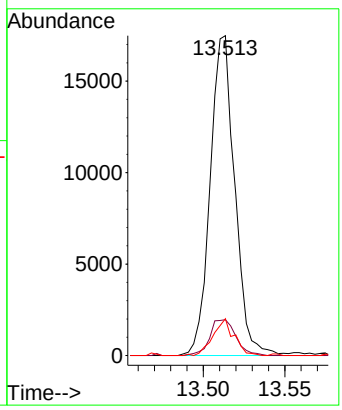




#79
Naphthalene
Concen: 0.486 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:128 Resp: 1837

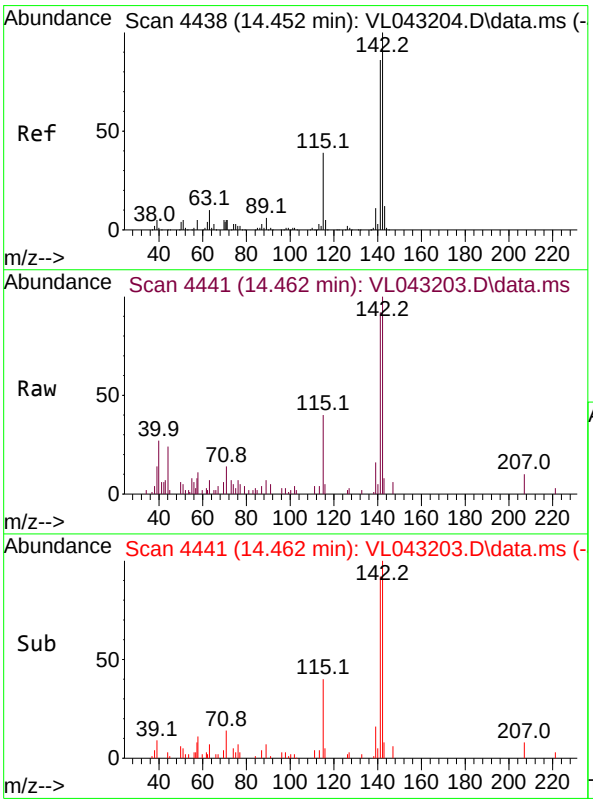
Ion	Ratio	Lower	Upper
128	100		
127	11.2	9.9	14.9
129	11.5	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

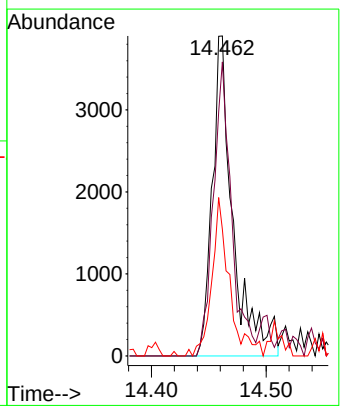
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

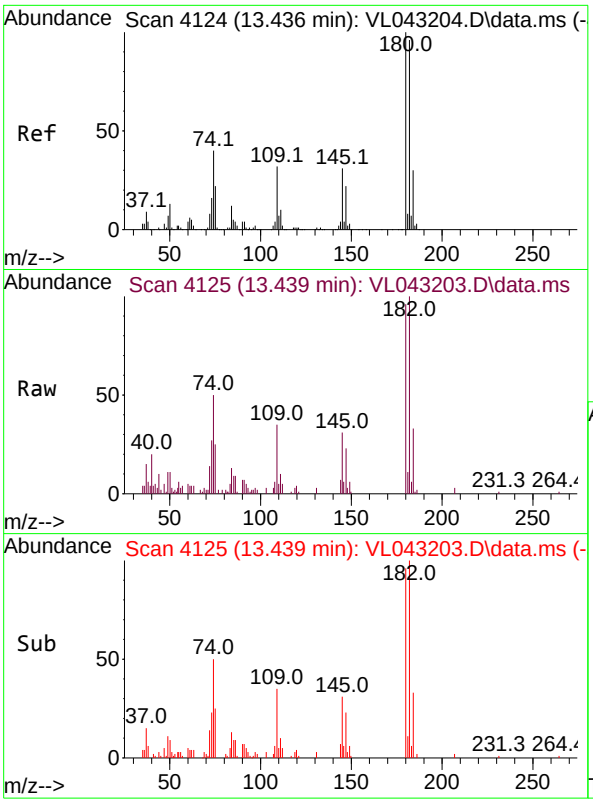


#80
Naphthalene,2-methyl-
Concen: 0.495 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:142 Resp: 4917

Ion	Ratio	Lower	Upper
142	100		
141	90.2	67.1	100.7
115	47.3	31.9	47.9

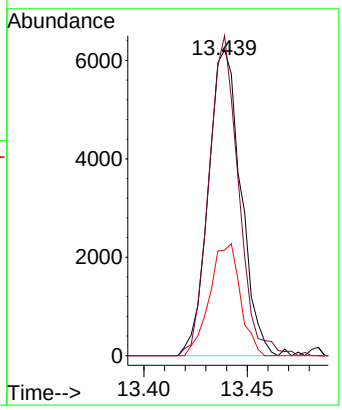




#81
1,2,4-Trichlorobenzene
Concen: 0.402 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:180 Resp: 679

Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.4	116.2
184	34.3	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043204.D
Acq On : 18 Nov 2025 10:02
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	105095	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	283830	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	234772	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	172524	10.025	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	140789	9.498	ppbv		100
3) Chlorodifluoromethane	1.473	51	138443	9.497	ppbv		100
4) Chloromethane	1.531	50	52372	9.450	ppbv		100
5) Vinyl Chloride	1.577	62	51045	8.422	ppbv		100
6) Bromomethane	1.664	94	26542	9.034	ppbv		100
7) Chloroethane	1.700	64	20375	8.632	ppbv		100
8) Dichlorotetrafluoroethane	1.551	85	114670	9.300	ppbv		100
9) Propene	1.480	41	52671	7.789	ppbv	#	1
10) Heptane	4.965	43	168611	9.090	ppbv		100
11) Trichlorofluoromethane	1.875	101	130362	9.077	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.137	101	103679	9.247	ppbv		100
13) Ethanol	1.716	45	17464	8.023	ppbv		100
14) Bromoethene	1.777	108	38037	8.849	ppbv		100
15) Acetone	1.832	43	108422	7.426	ppbv		100
16) 1,3-Butadiene	1.606	39	57871	8.890	ppbv		100
17) tert-Butyl alcohol	2.036	59	179201	9.350	ppbv		100
18) 1,1-Dichloroethene	2.030	96	46313	8.871	ppbv		100
19) Isopropyl Alcohol	1.881	45	71862	8.710	ppbv		100
20) Methylene Chloride	2.056	84	41868	9.708	ppbv		100
21) Allyl Chloride	2.091	41	89266	9.087	ppbv		100
22) trans-1,2-Dichloroethene	2.334	96	52470	8.793	ppbv		100
23) Vinyl Acetate	2.457	43	170459	9.670	ppbv		100
24) 1,1-Dichloroethane	2.405	63	106970	9.287	ppbv		100
25) Ethyl Acetate	2.829	43	289921	9.190	ppbv		100
26) Hexane	2.820	57	129809	9.402	ppbv		100
27) Carbon Disulfide	2.146	76	132086	9.371	ppbv		100
28) Methyl tert-Butyl Ether	2.434	73	62115	9.165	ppbv		100
29) Chloroform	2.842	83	187620	9.561	ppbv		100
30) Cyclohexane	3.846	84	107621	9.297	ppbv		100
31) cis-1,2-Dichloroethene	2.716	61	130357	9.499	ppbv		100
32) 1,1,1-Trichloroethane	3.360	97	198036	9.381	ppbv		100
34) 2-Butanone	2.551	43	182749	9.121	ppbv		100
35) Carbon Tetrachloride	3.755	117	200831	9.322	ppbv		100
36) Benzene	3.648	78	256954	9.453	ppbv		100
37) 1,2-Dichloroethane	3.211	62	150769	9.483	ppbv		100
38) Trichloroethene	4.535	130	100136	9.398	ppbv		100
39) 1,2-Dichloropropane	4.302	63	95097	9.559	ppbv		100
40) 1,4-Dioxane	4.567	88	40441	9.043	ppbv	#	100
41) Tetrahydrofuran	3.046	42	104294	9.426	ppbv		100
42) Bromodichloromethane	4.477	83	211504	9.643	ppbv		100
43) Methyl Methacrylate	4.865	69	131003	9.080	ppbv		100
44) 2,2,4-Trimethylpentane	4.626	57	441234	9.451	ppbv		100
45) t-1,3-Dichloropropene	6.399	75	129122	9.601	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043204.D
Acq On : 18 Nov 2025 10:02
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.584	75	151655	9.603	ppbv		100
47) 1,1,2-Trichloroethane	6.564	97	97512	9.193	ppbv		100
48) Dibromochloromethane	7.377	129	175529	9.670	ppbv		100
49) Bromoform	9.474	173	157563	9.800	ppbv		100
50) 4-Methyl-2-Pentanone	5.733	43	268369	9.509	ppbv		100
51) 2-Hexanone	7.419	43	208268	9.503	ppbv	#	100
52) Tetrachloroethene	8.212	164	93518	9.249	ppbv		100
53) Toluene	6.920	91	305169	9.422	ppbv		100
54) 1,2-Dibromoethane	7.639	107	148973	9.588	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.914	131	158856	9.207	ppbv		100
57) Chlorobenzene	8.911	112	227490	9.438	ppbv		100
58) Ethyl Benzene	9.345	91	427530	9.461	ppbv		100
59) m/p-Xylene	9.542	91	673371m	18.519	ppbv		
60) o-Xylene	9.956	91	333044	9.202	ppbv		100
61) Styrene	9.863	104	152172	9.607	ppbv		100
62) Isopropylbenzene	10.533	105	600155	9.269	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.953	83	209272	9.109	ppbv		100
64) n-propylbenzene	10.982	120	154239	9.271	ppbv		100
65) tert-Butylbenzene	11.523	119	522106	9.029	ppbv		100
66) Benzyl Chloride	11.607	91	56620	9.649	ppbv		100
67) sec-Butylbenzene	11.762	105	729573	9.039	ppbv		100
69) p-Isopropyltoluene	11.918	119	624586	9.135	ppbv		100
70) n-Butylbenzene	12.274	91	619610	9.341	ppbv		100
71) 2-Chlorotoluene	10.895	91	460118	9.245	ppbv		100
72) 4-Ethyltoluene	11.118	105	410587	9.316	ppbv		100
73) 1,3,5-Trimethylbenzene	11.196	105	341900	9.244	ppbv		100
74) 1,2,4-Trimethylbenzene	11.529	105	363476	9.005	ppbv		100
75) 1,3-Dichlorobenzene	11.601	146	219894	9.335	ppbv		100
76) 1,4-Dichlorobenzene	11.665	146	220576	9.363	ppbv		100
77) 1,2-Dichlorobenzene	11.940	146	204826	9.044	ppbv		100
78) Hexachloro-1,3-Butadiene	13.876	225	161034	8.520	ppbv		100
79) Naphthalene	13.507	128	351148	9.795	ppbv		100
80) Naphthalene,2-methyl-	14.452	142	93113	9.895	ppbv		100
81) 1,2,4-Trichlorobenzene	13.436	180	159091	9.923	ppbv		100

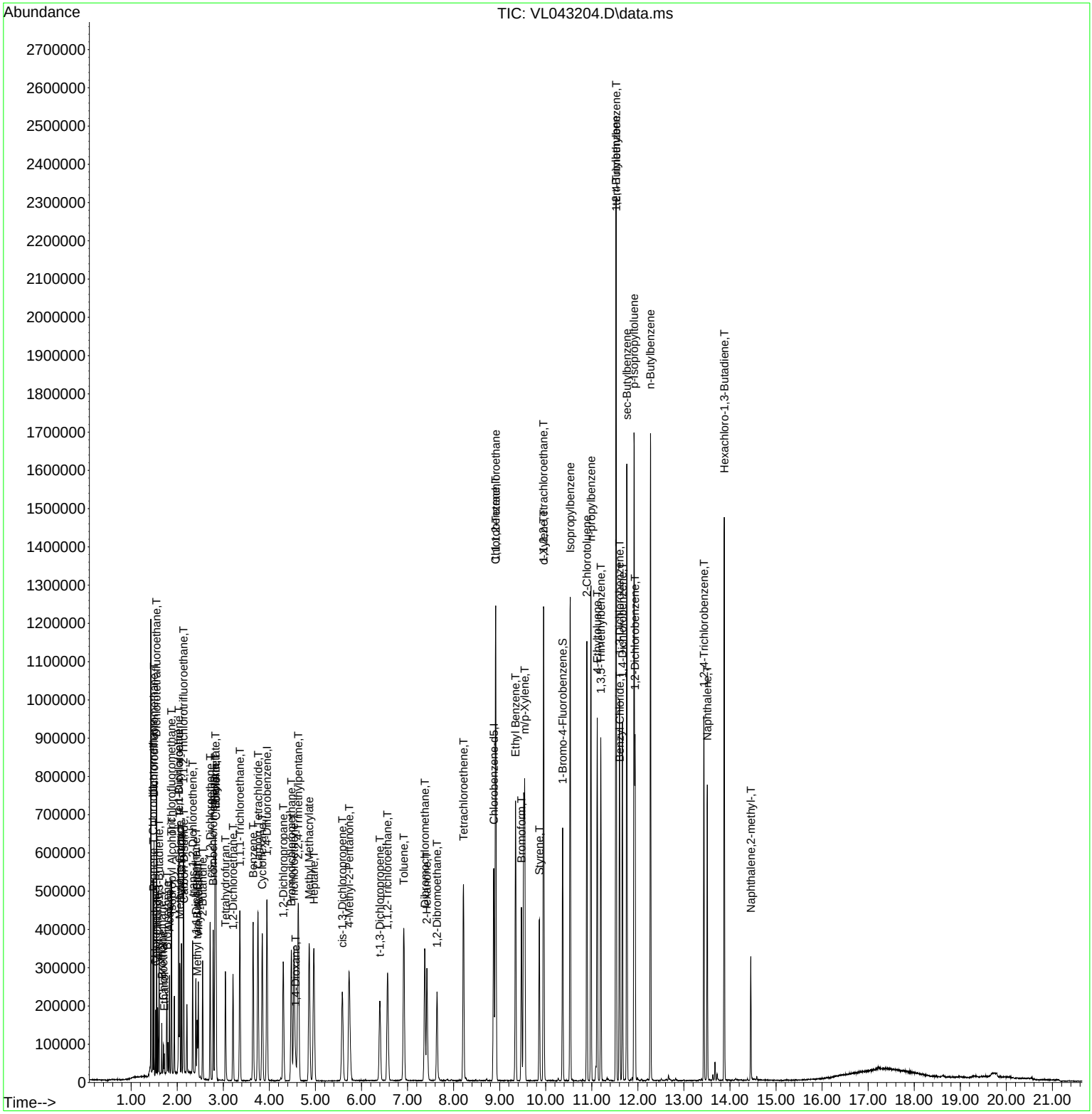
(#) = qualifier out of range (m) = manual integration (+) = signals summed

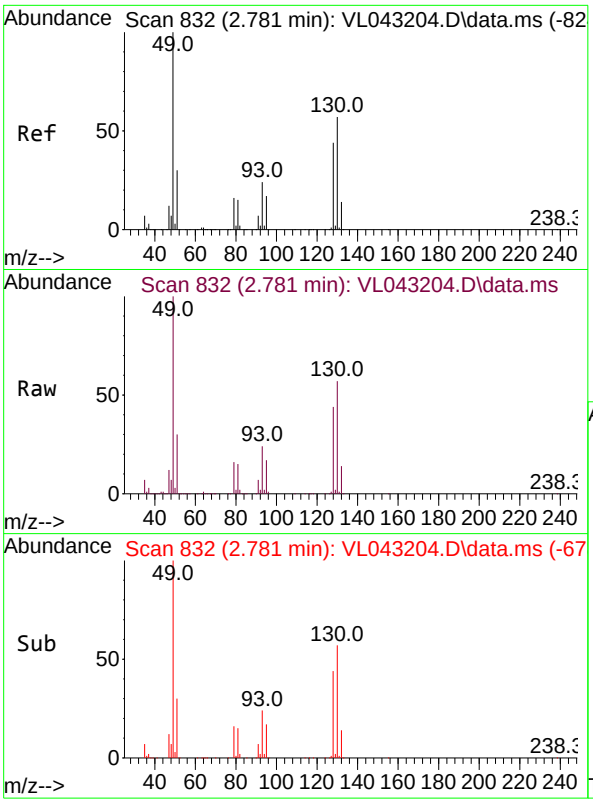
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043204.D
Acq On : 18 Nov 2025 10:02
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

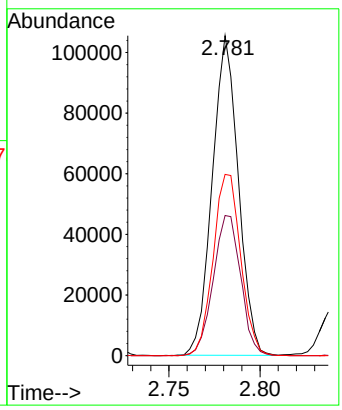




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 49 Resp: 10509

Ion	Ratio	Lower	Upper
49	100		
128	46.0	23.0	69.0
130	59.8	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
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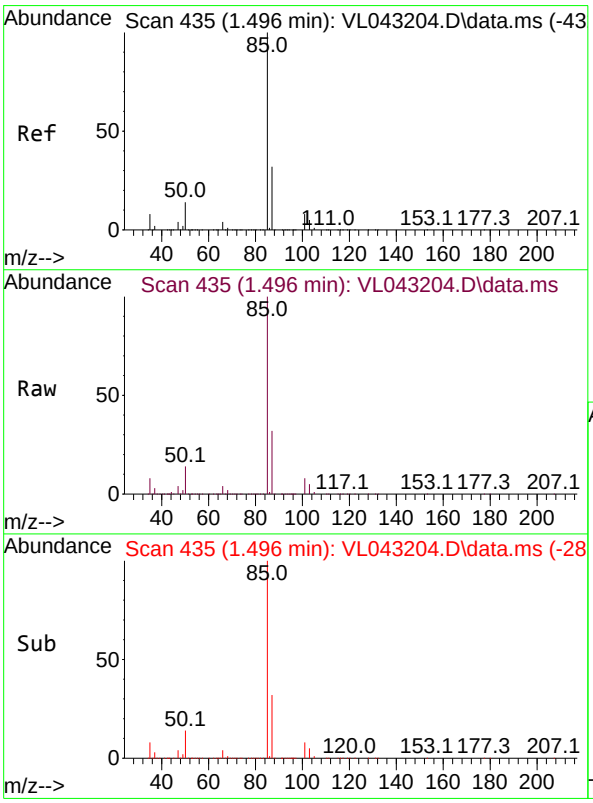
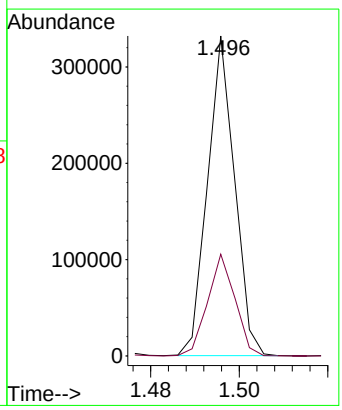
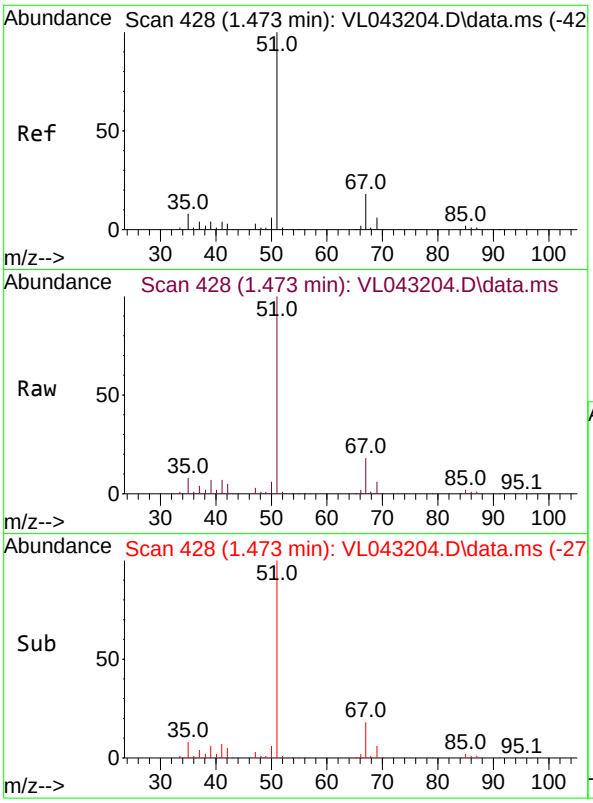


#2
Dichlorodifluoromethane
Concen: 9.498 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 85 Resp: 140789

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.4	38.2

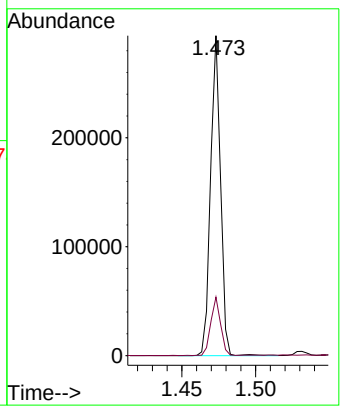




#3
Chlorodifluoromethane
Concen: 9.497 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 51 Resp: 13844

Ion	Ratio	Lower	Upper
51	100		
67	18.6	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
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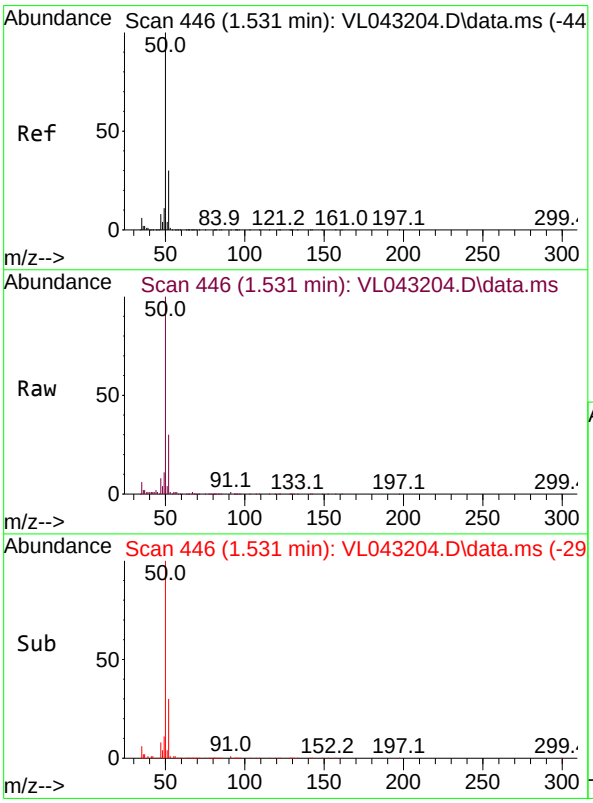
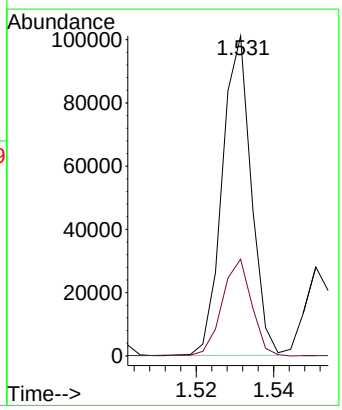
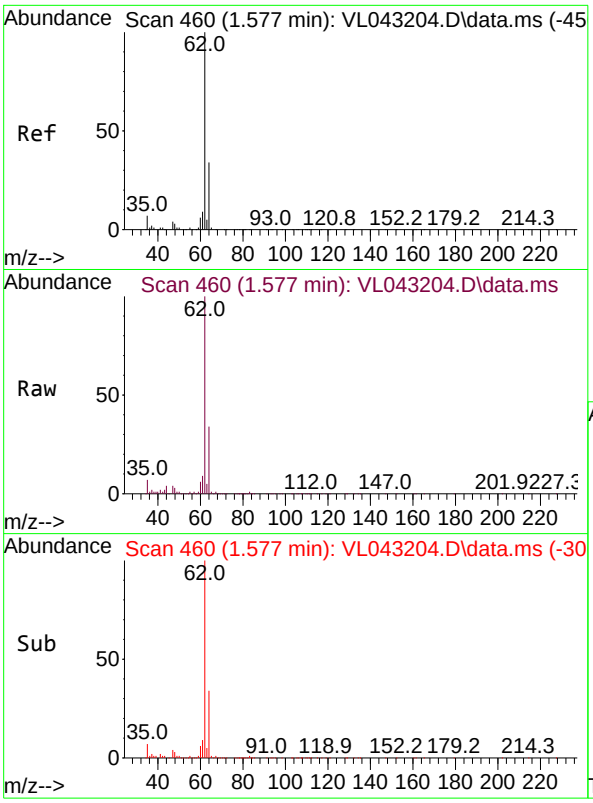


#4
Chloromethane
Concen: 9.450 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 50 Resp: 52372

Ion	Ratio	Lower	Upper
50	100		
52	30.1	24.1	36.1

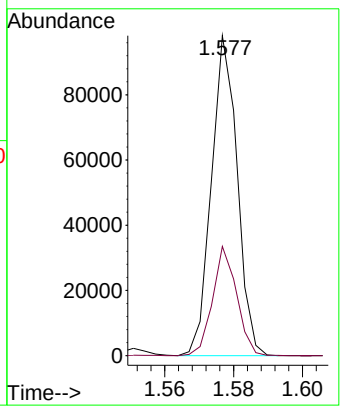




#5
Vinyl Chloride
Concen: 8.422 ppbv
RT: 1.577 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 62 Resp: 5104

Ion	Ratio	Lower	Upper
62	100		
64	34.1	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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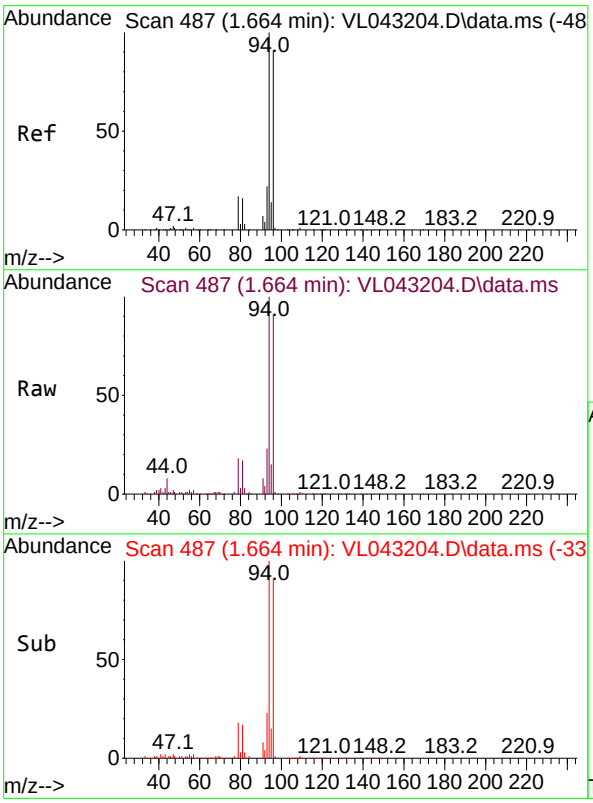
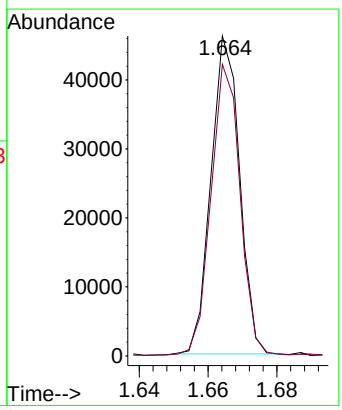
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

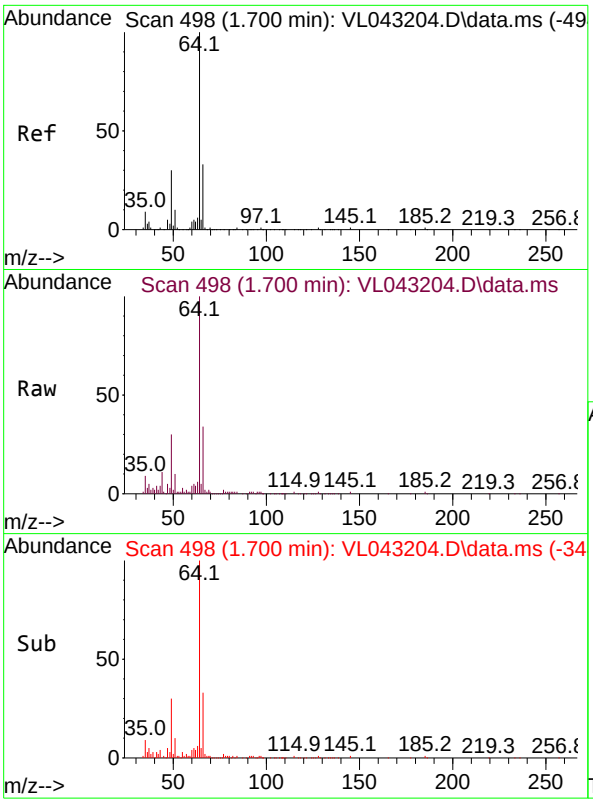


#6
Bromomethane
Concen: 9.034 ppbv
RT: 1.664 min Scan# 487
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 94 Resp: 26542

Ion	Ratio	Lower	Upper
94	100		
96	91.1	72.9	109.3

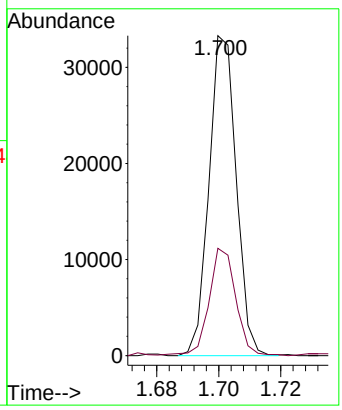




#7
Chloroethane
Concen: 8.632 ppbv
RT: 1.700 min Scan# 49
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 64 Resp: 2037

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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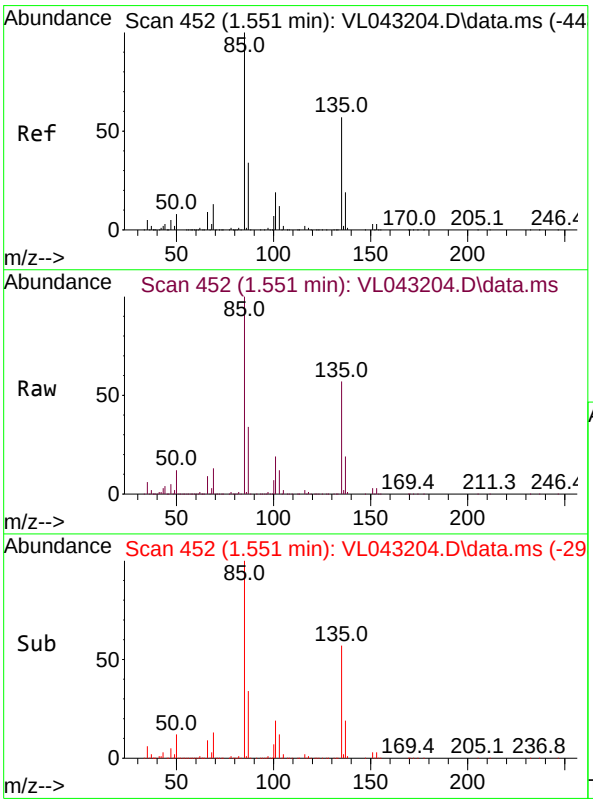
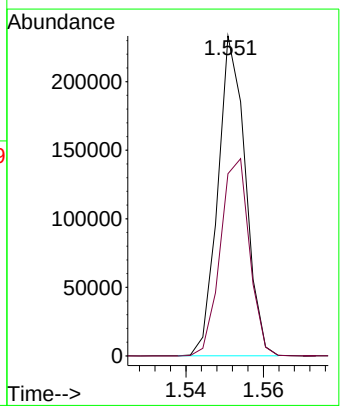
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

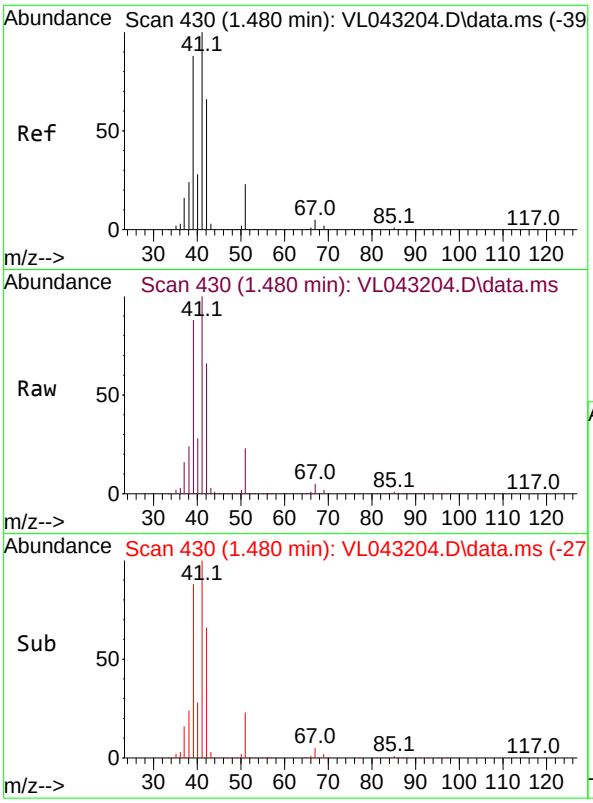


#8
Dichlorotetrafluoroethane
Concen: 9.300 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 85 Resp: 114670

Ion	Ratio	Lower	Upper
85	100		
135	65.8	52.6	79.0

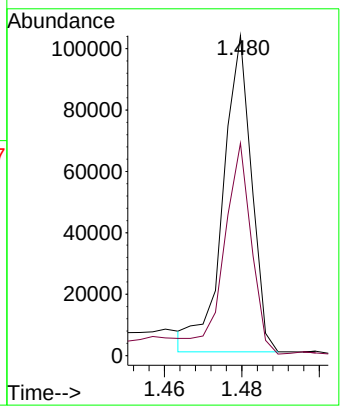




#9
Propene
Concen: 7.789 ppbv
RT: 1.480 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 41 Resp: 5267

Ion	Ratio	Lower	Upper
41	100		
42	105.2	3.7	5.5#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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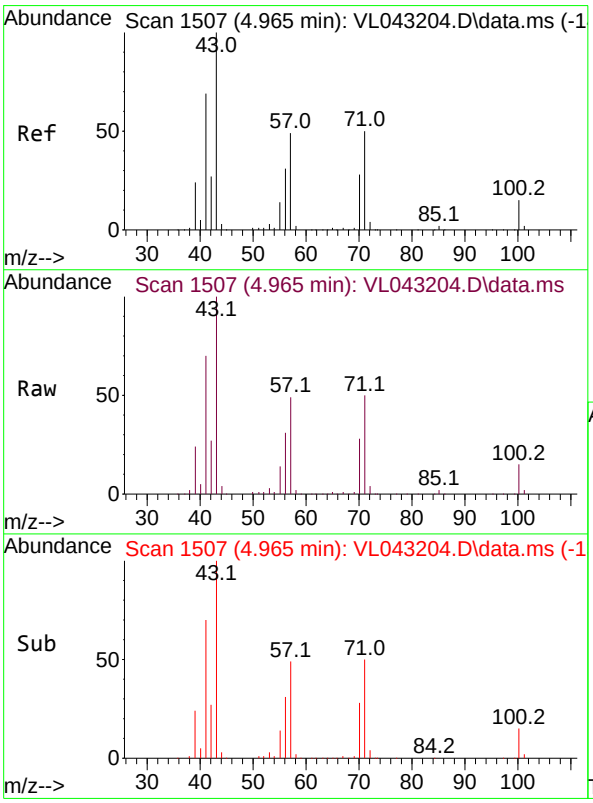
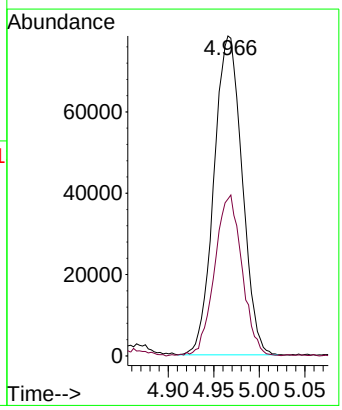
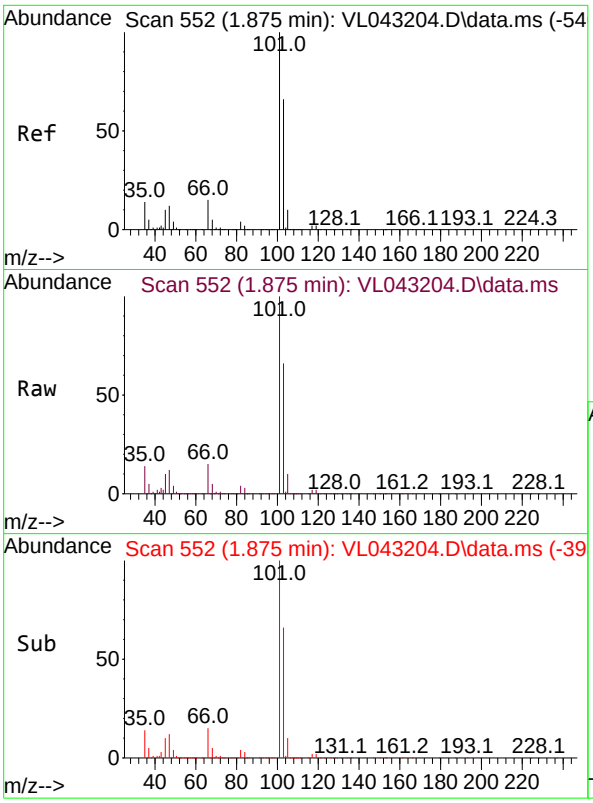


#10
Heptane
Concen: 9.090 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 168611

Ion	Ratio	Lower	Upper
43	100		
57	49.6	39.7	59.5

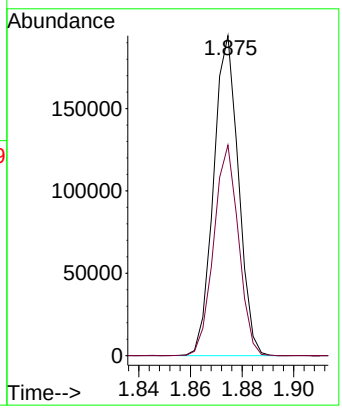




#11
Trichlorofluoromethane
Concen: 9.077 ppbv
RT: 1.875 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:101 Resp: 13036

Ion	Ratio	Lower	Upper
101	100		
103	65.8	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
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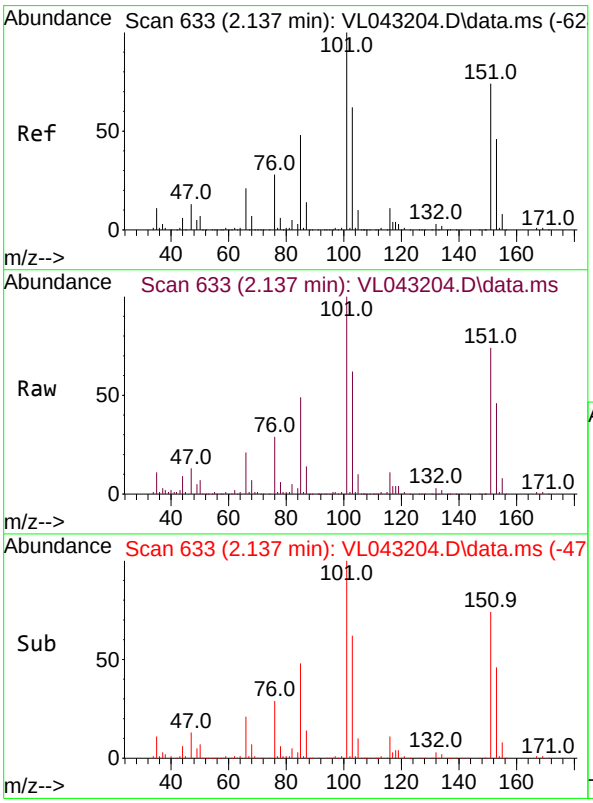
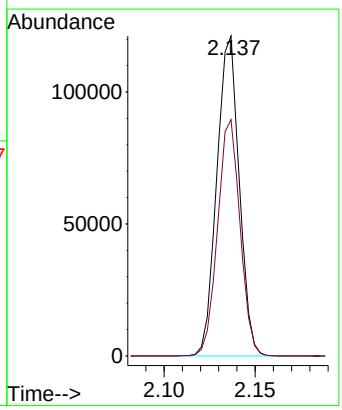
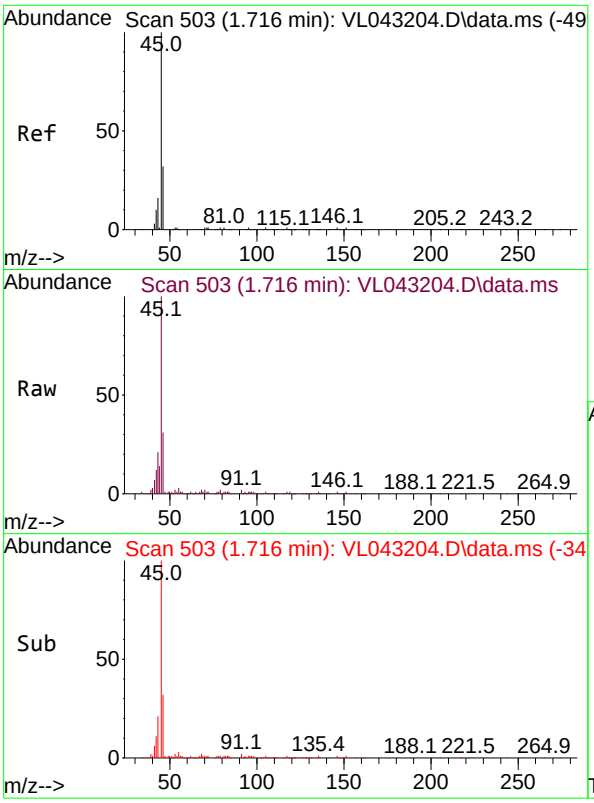


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.247 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:101 Resp: 103679

Ion	Ratio	Lower	Upper
101	100		
151	74.0	59.2	88.8

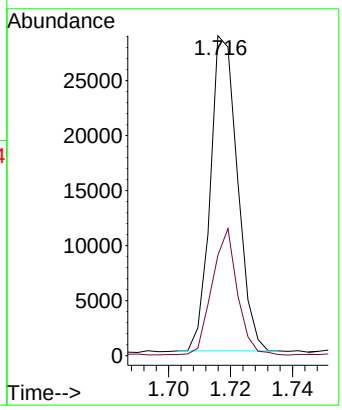




#13
Ethanol
Concen: 8.023 ppbv
RT: 1.716 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 45 Resp: 1746

Ion	Ratio	Lower	Upper
45	100		
46	37.4	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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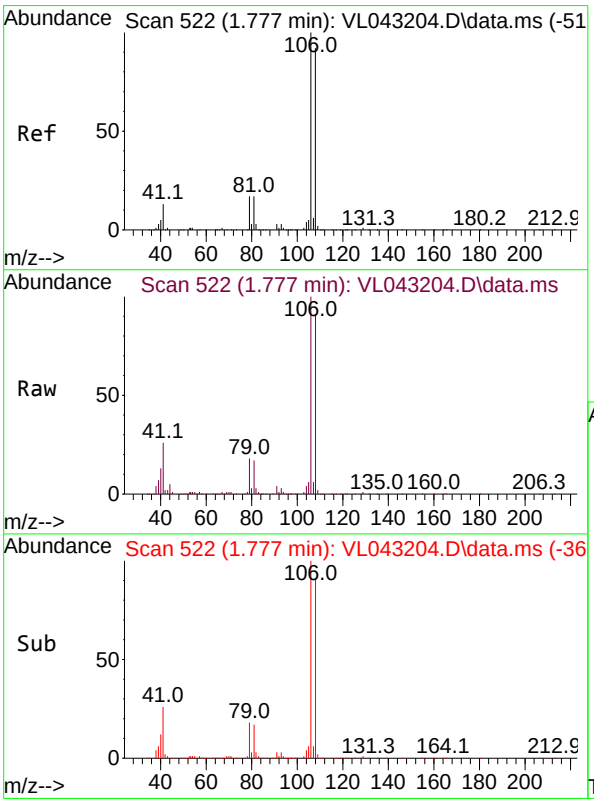
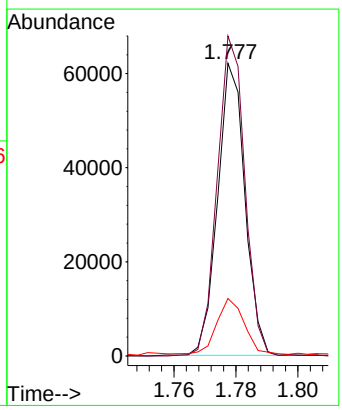
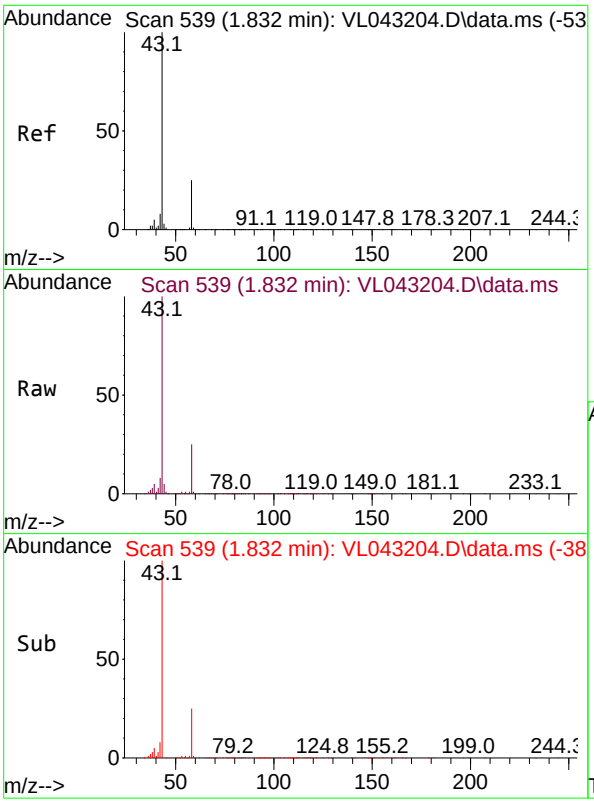


#14
Bromoethene
Concen: 8.849 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:108 Resp: 38037

Ion	Ratio	Lower	Upper
108	100		
106	111.1	88.9	133.3
79	20.6	16.5	24.7

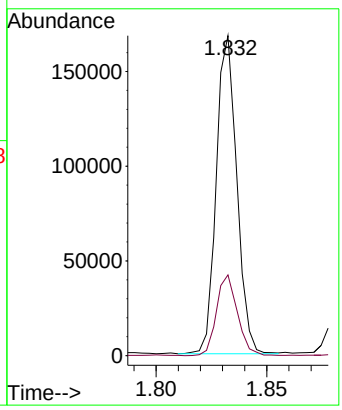




#15
Acetone
Concen: 7.426 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 10842

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
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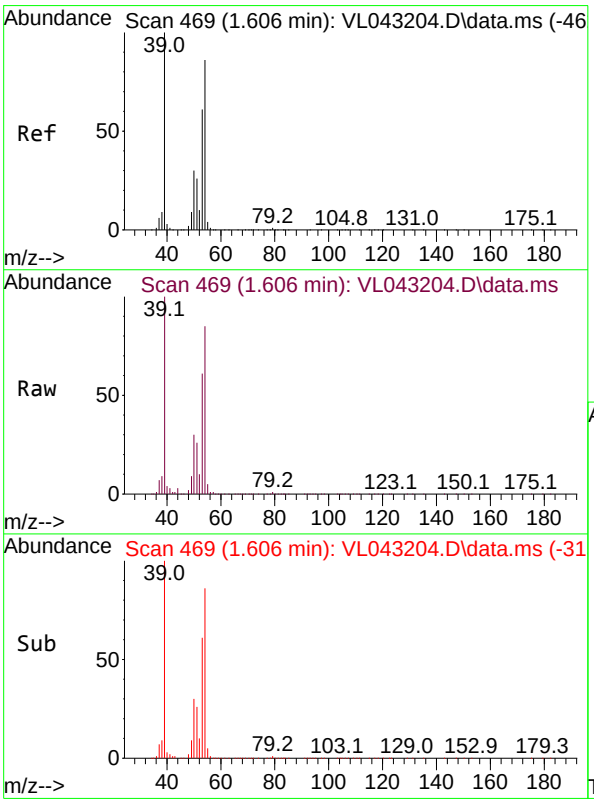
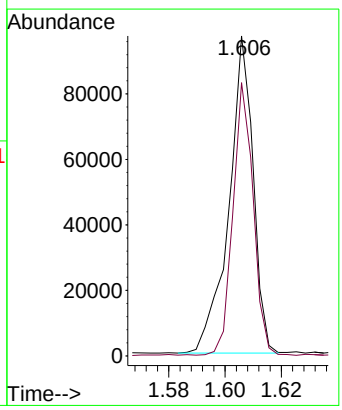
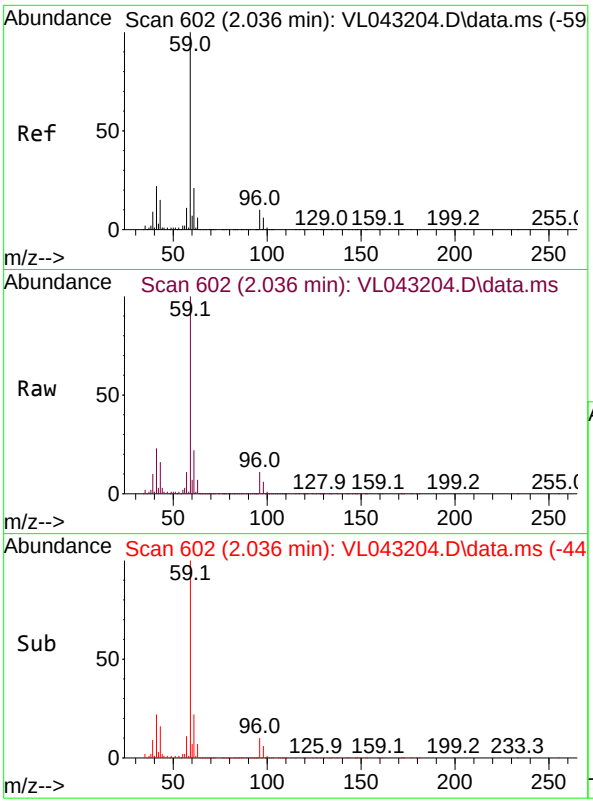


#16
1,3-Butadiene
Concen: 8.890 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 39 Resp: 57871

Ion	Ratio	Lower	Upper
39	100		
54	74.3	59.4	89.2

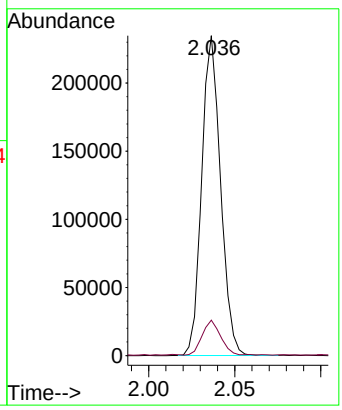




#17
tert-Butyl alcohol
Concen: 9.350 ppbv
RT: 2.036 min Scan# 6(
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 59 Resp: 17920(

Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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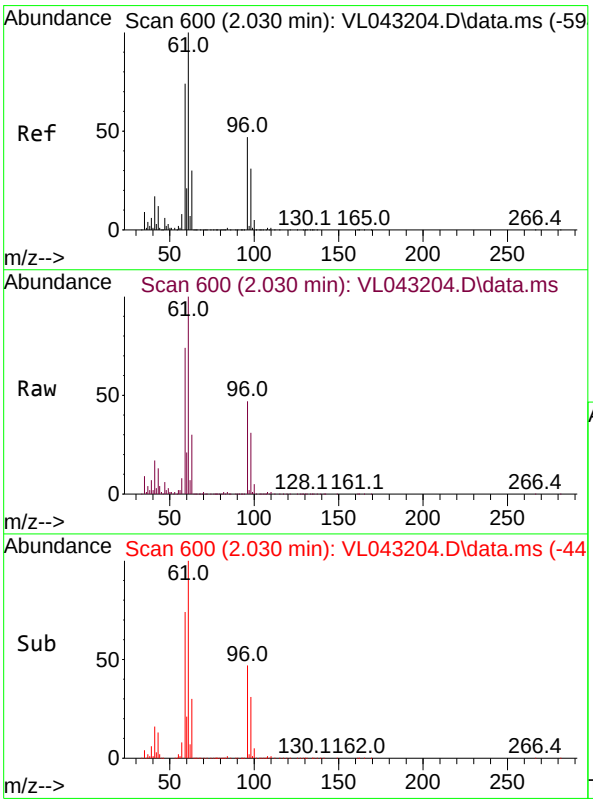
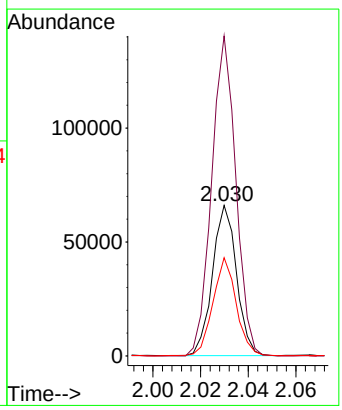
Supervised By :Mahesh Dadoda 11/19/2025

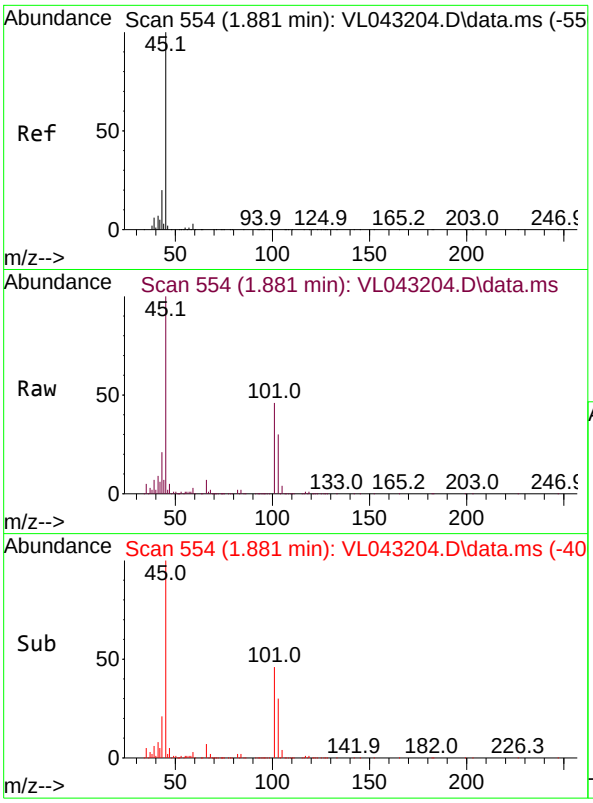


#18
1,1-Dichloroethene
Concen: 8.871 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 96 Resp: 46313

Ion	Ratio	Lower	Upper
96	100		
61	213.2	170.6	255.8
98	65.3	52.2	78.4

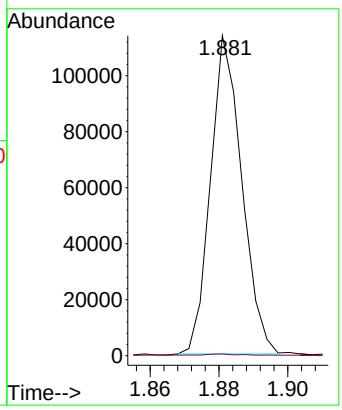




#19
Isopropyl Alcohol
Concen: 8.710 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 45 Resp: 7186

Ion	Ratio	Lower	Upper
45	100		
58	39.1	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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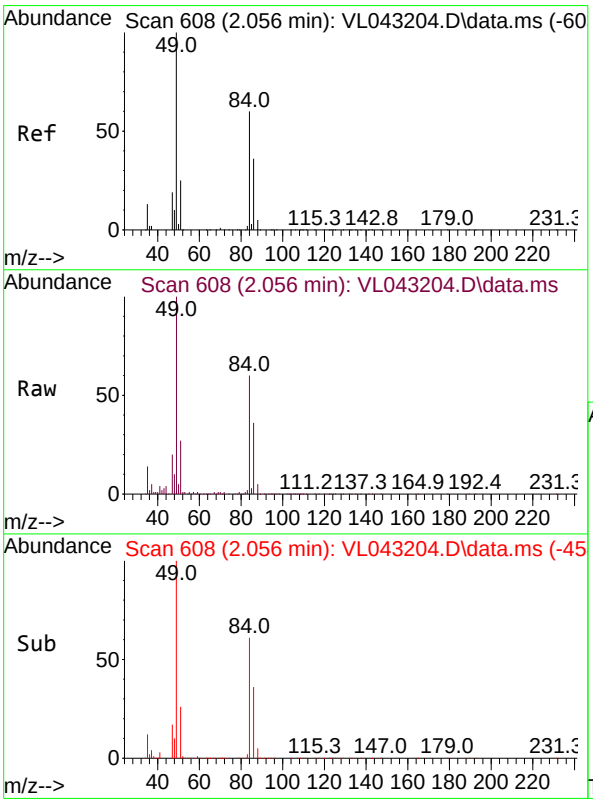
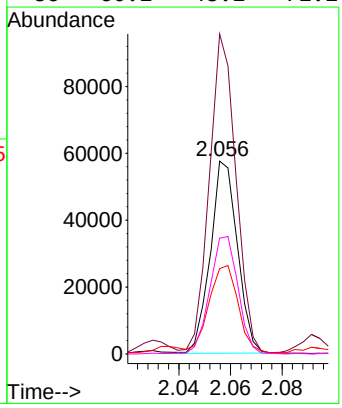
Supervised By :Mahesh Dadoda 11/19/2025

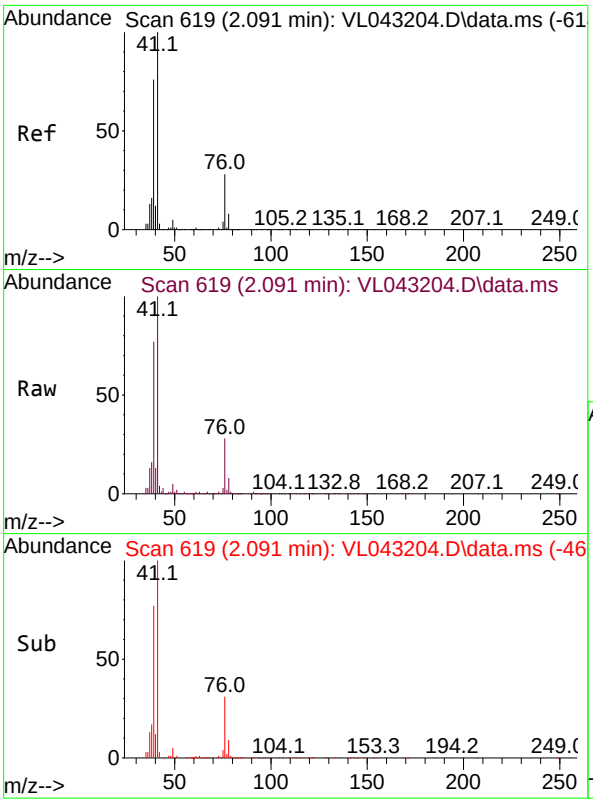


#20
Methylene Chloride
Concen: 9.708 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 84 Resp: 41868

Ion	Ratio	Lower	Upper
84	100		
49	166.1	132.9	199.3
51	43.5	34.8	52.2
86	60.2	48.2	72.2

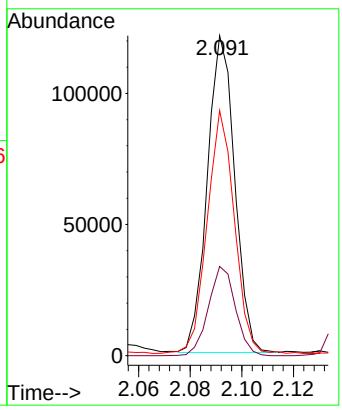




#21
Allyl Chloride
Concen: 9.087 ppbv
RT: 2.091 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 41 Resp: 8926

Ion	Ratio	Lower	Upper
41	100		
76	27.6	22.1	33.1
39	76.2	61.0	91.4



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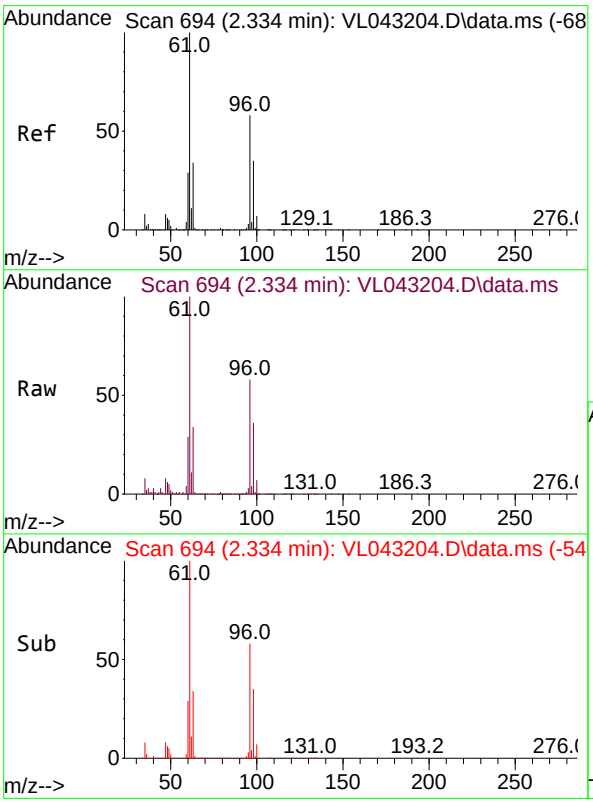
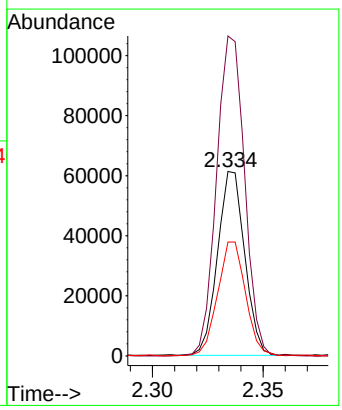
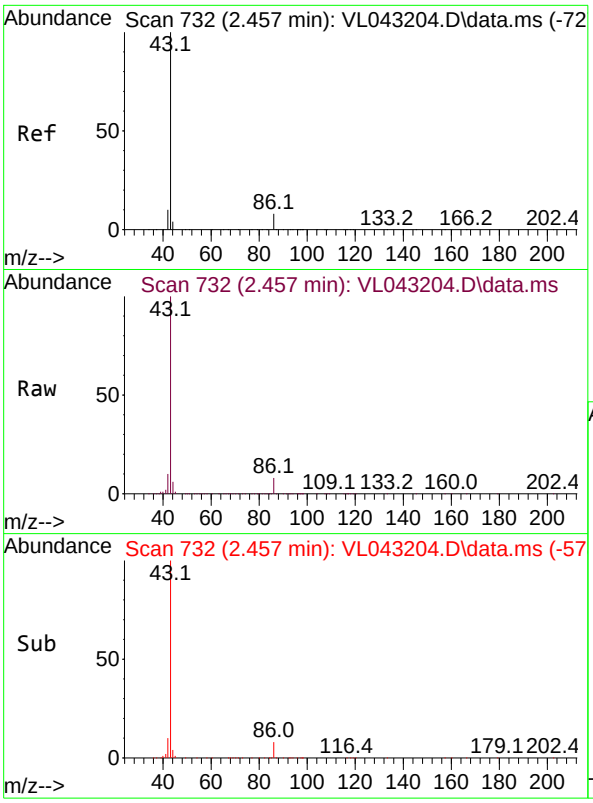


#22
trans-1,2-Dichloroethene
Concen: 8.793 ppbv
RT: 2.334 min Scan# 694
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 96 Resp: 52470

Ion	Ratio	Lower	Upper
96	100		
61	173.8	139.0	208.6
98	61.8	49.4	74.2

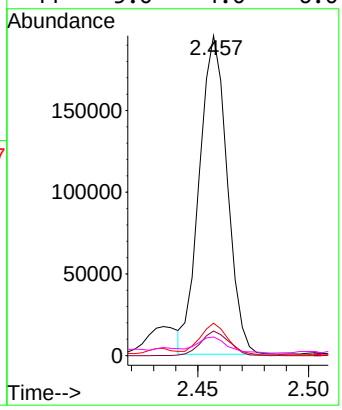




#23
Vinyl Acetate
Concen: 9.670 ppbv
RT: 2.457 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 17045

Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.2	9.2
42	10.0	8.0	12.0
44	5.0	4.0	6.0



Instrument :
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ClientSampleId :
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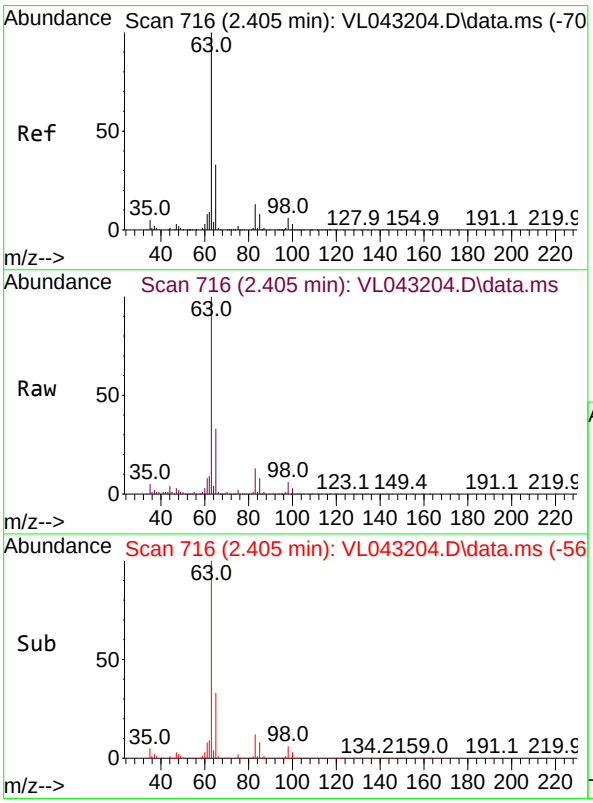
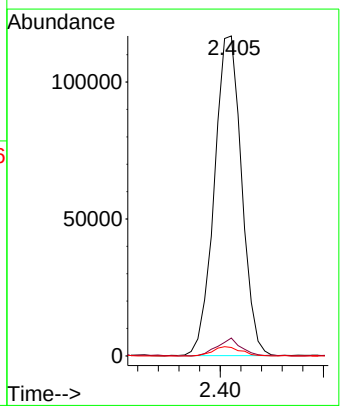
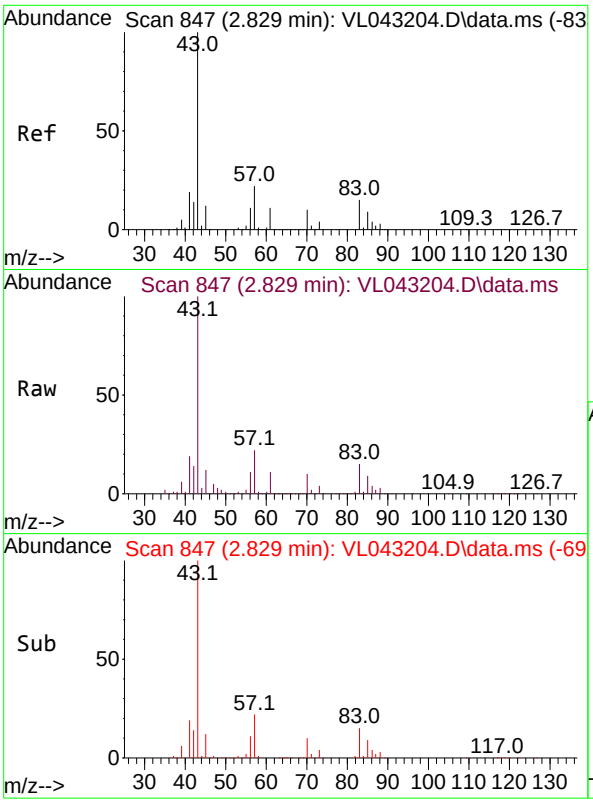


#24
1,1-Dichloroethane
Concen: 9.287 ppbv
RT: 2.405 min Scan# 716
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 63 Resp: 106970

Ion	Ratio	Lower	Upper
63	100		
98	5.6	2.8	8.4
100	2.6	1.3	3.9

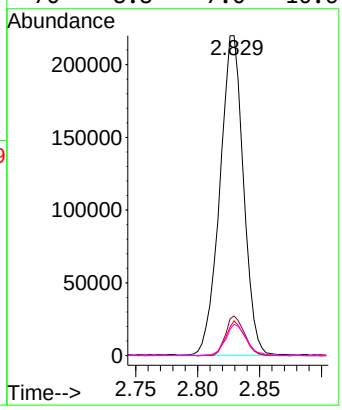




#25
Ethyl Acetate
Concen: 9.190 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 28992

Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	8.7	7.0	10.4
70	8.8	7.0	10.6



Instrument :
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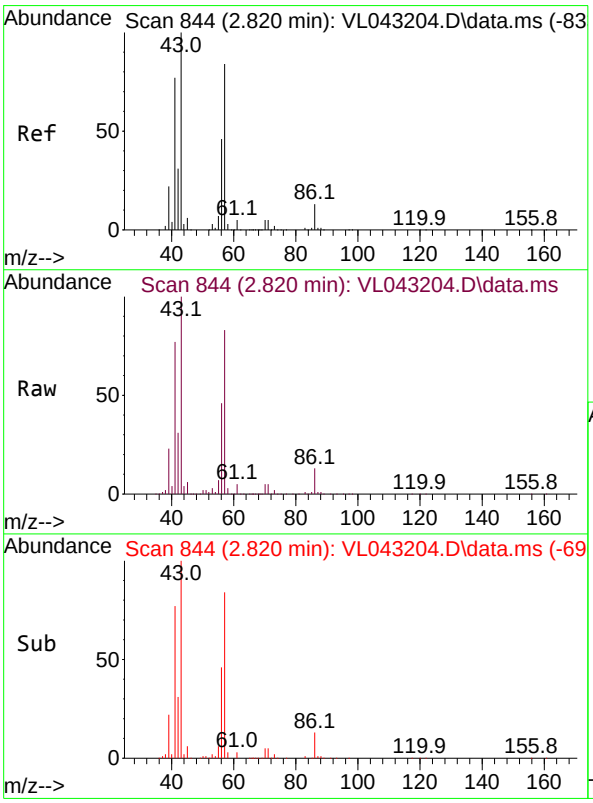
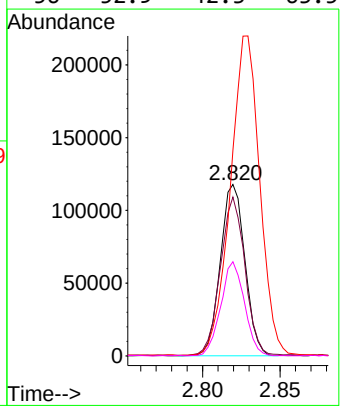
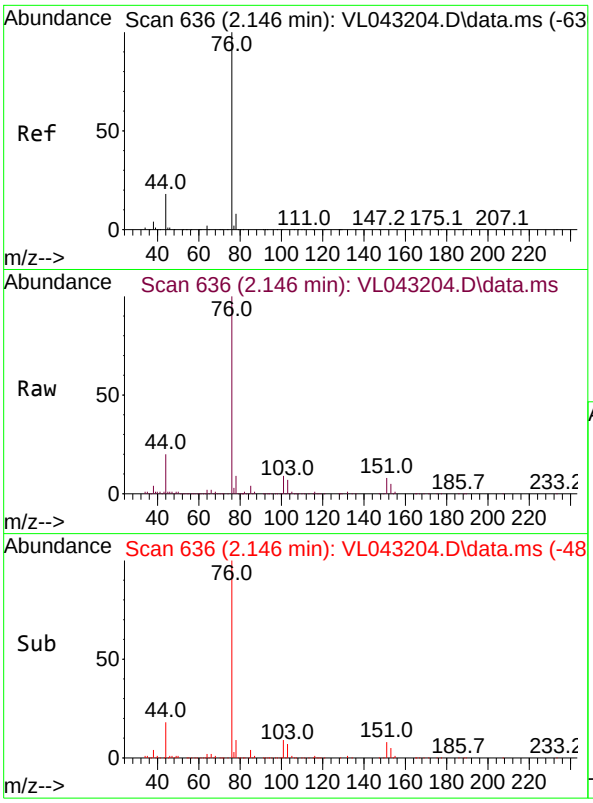


#26
Hexane
Concen: 9.402 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 57 Resp: 129809

Ion	Ratio	Lower	Upper
57	100		
41	93.2	74.6	111.8
43	223.7	179.0	268.4
56	52.9	42.3	63.5

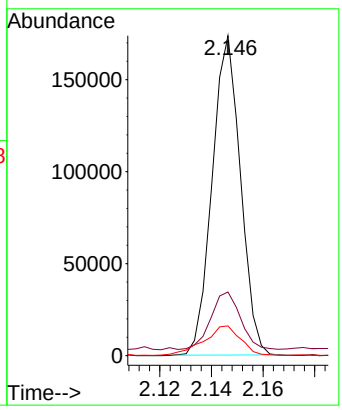




#27
Carbon Disulfide
Concen: 9.371 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 76 Resp: 13208

Ion	Ratio	Lower	Upper
76	100		
44	20.1	16.1	24.1
78	12.0	9.6	14.4



Instrument :
MSVOA_L
ClientSampleId :
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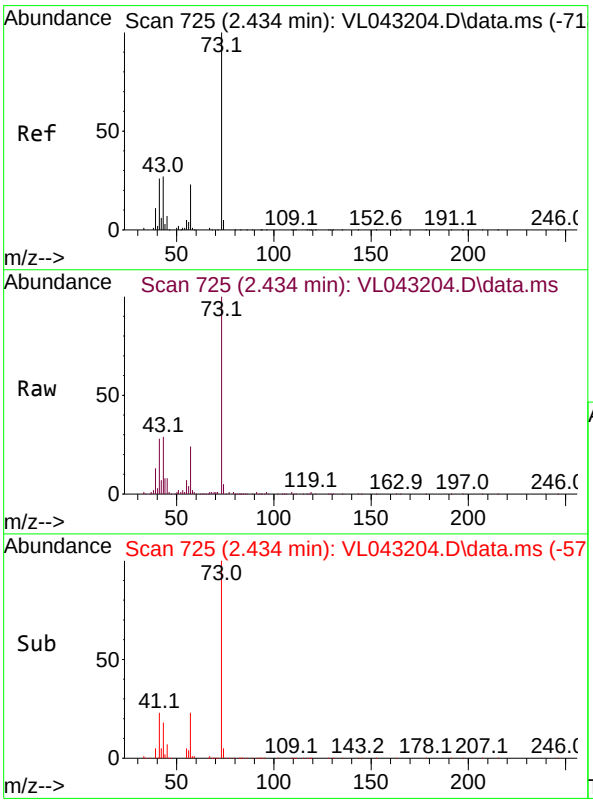
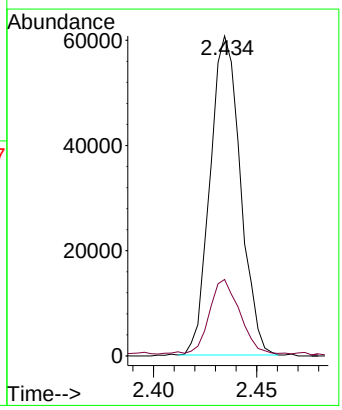
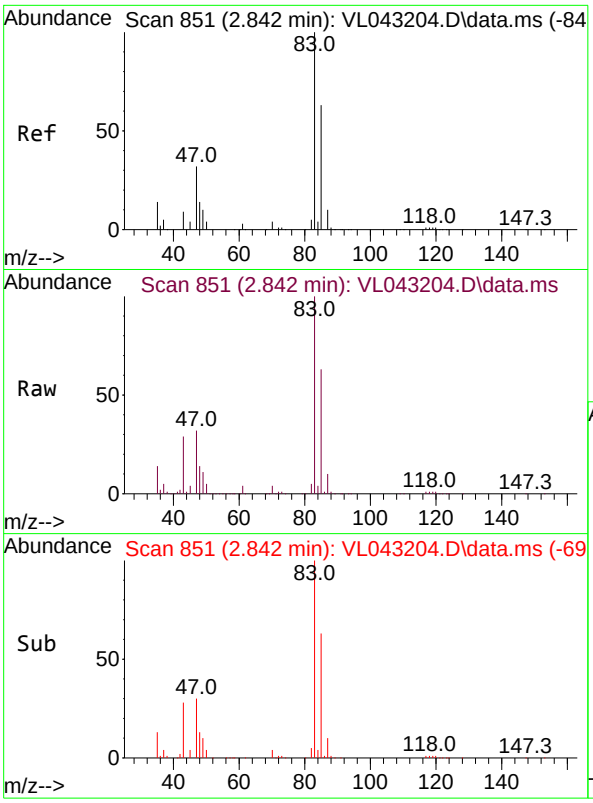


#28
Methyl tert-Butyl Ether
Concen: 9.165 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 73 Resp: 62115

Ion	Ratio	Lower	Upper
73	100		
57	24.8	19.8	29.8

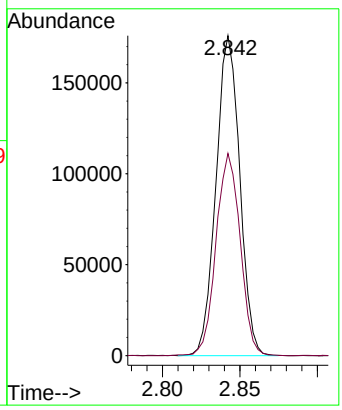




#29
Chloroform
Concen: 9.561 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 83 Resp: 18762

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7



Instrument :
MSVOA_L
ClientSampleId :
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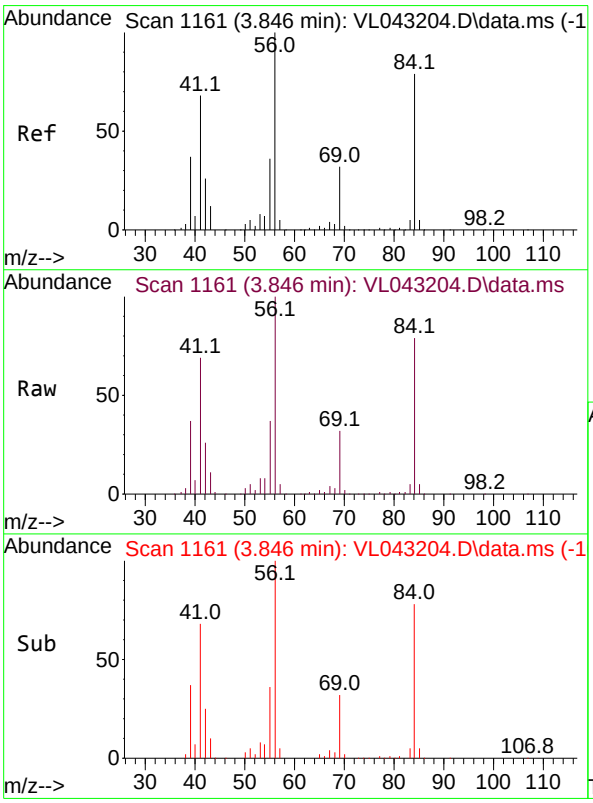
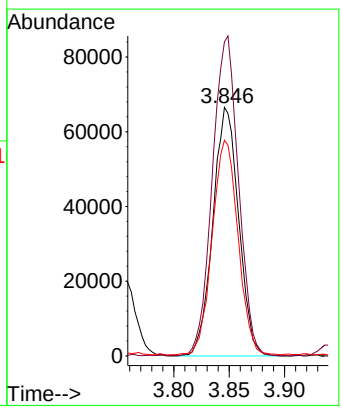
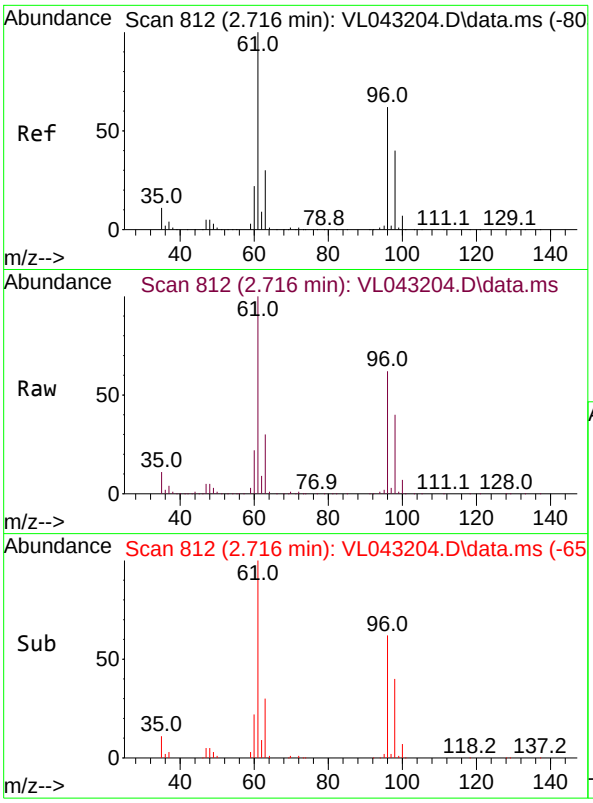


#30
Cyclohexane
Concen: 9.297 ppbv
RT: 3.846 min Scan# 1161
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 84 Resp: 107621

Ion	Ratio	Lower	Upper
84	100		
56	130.9	104.7	157.1
41	86.3	69.0	103.6

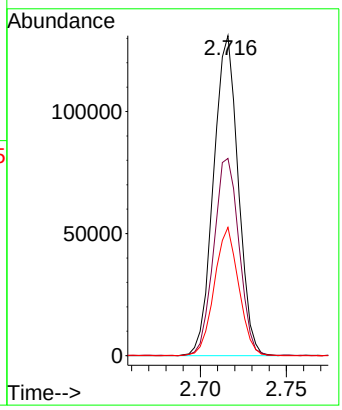




#31
cis-1,2-Dichloroethene
Concen: 9.499 ppbv
RT: 2.716 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 61 Resp: 13035

Ion	Ratio	Lower	Upper
61	100		
96	61.6	49.3	73.9
98	40.1	32.1	48.1



Instrument :
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ClientSampleId :
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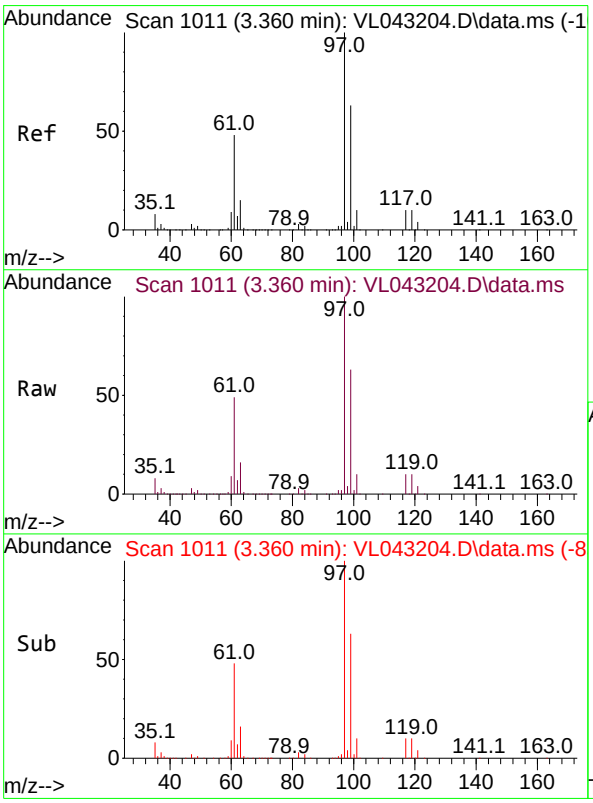
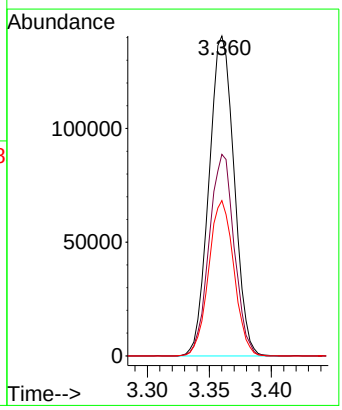
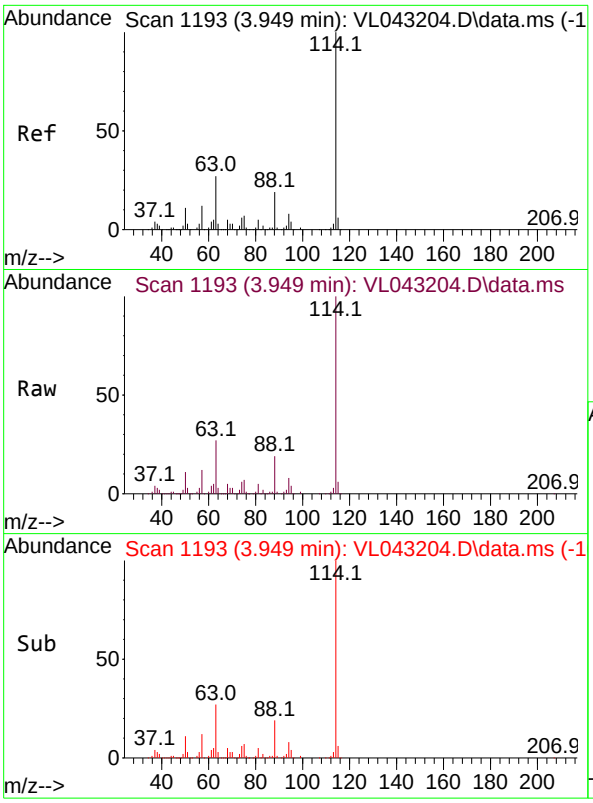


#32
1,1,1-Trichloroethane
Concen: 9.381 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 97 Resp: 198036

Ion	Ratio	Lower	Upper
97	100		
99	62.9	50.3	75.5
61	48.6	38.9	58.3

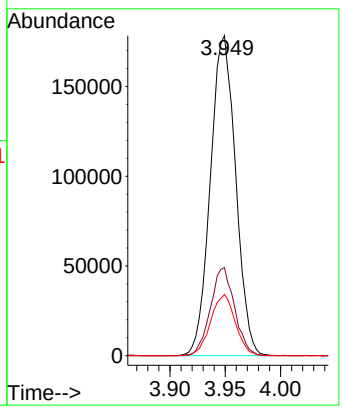




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:114 Resp: 28383

Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.0	31.6
88	18.6	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
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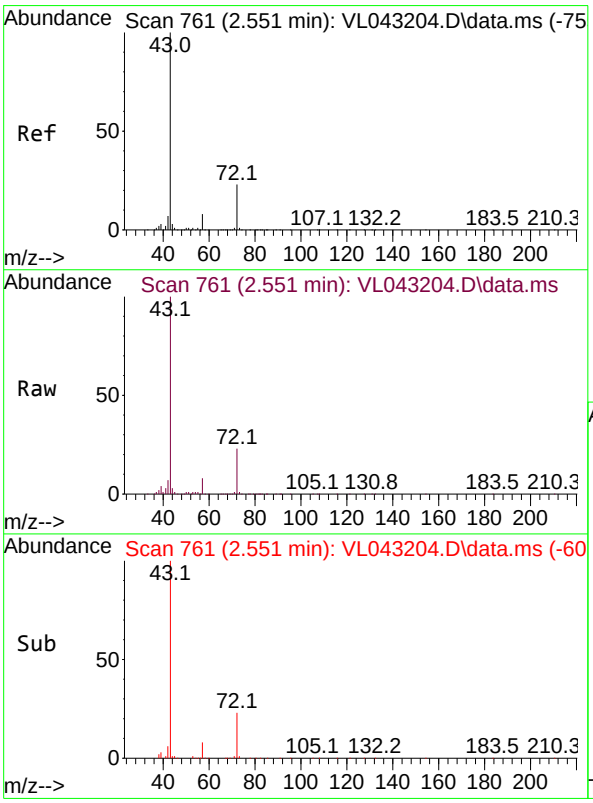
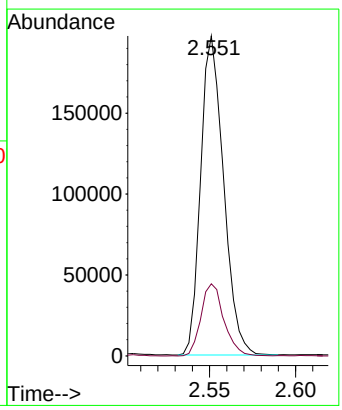
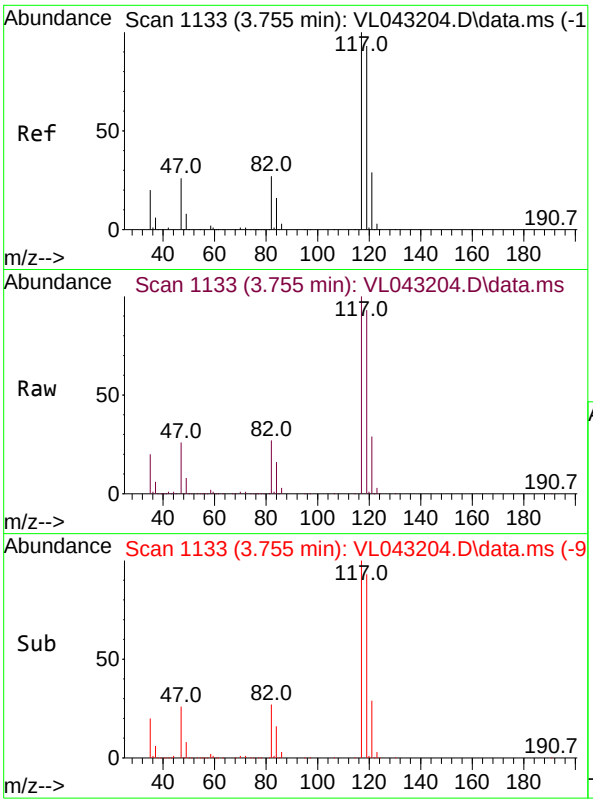


#34
2-Butanone
Concen: 9.121 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 182749

Ion	Ratio	Lower	Upper
43	100		
72	22.6	18.1	27.1

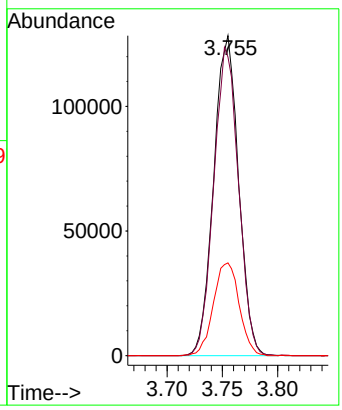




#35
Carbon Tetrachloride
Concen: 9.322 ppbv
RT: 3.755 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:117 Resp: 20083

Ion	Ratio	Lower	Upper
117	100		
119	93.3	74.6	112.0
121	29.0	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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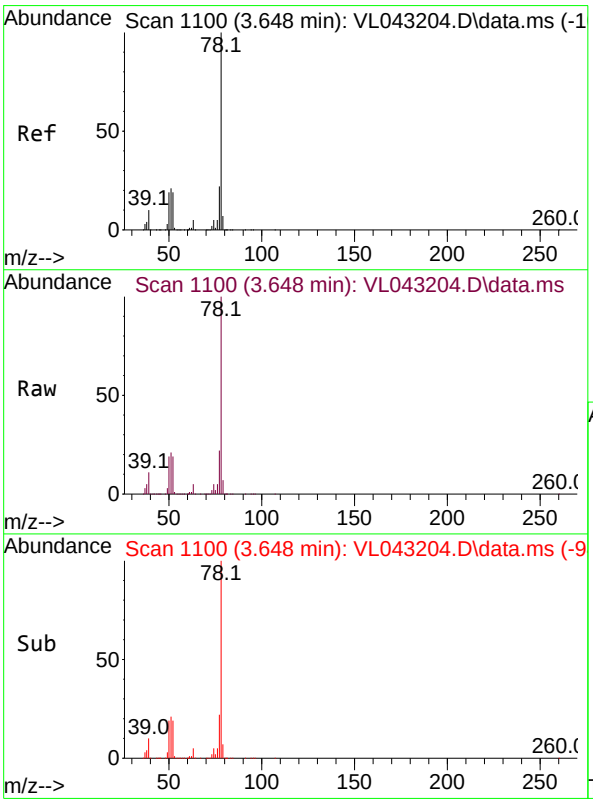
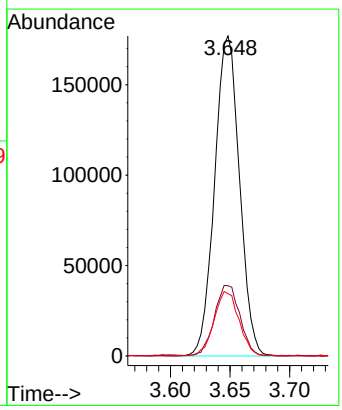
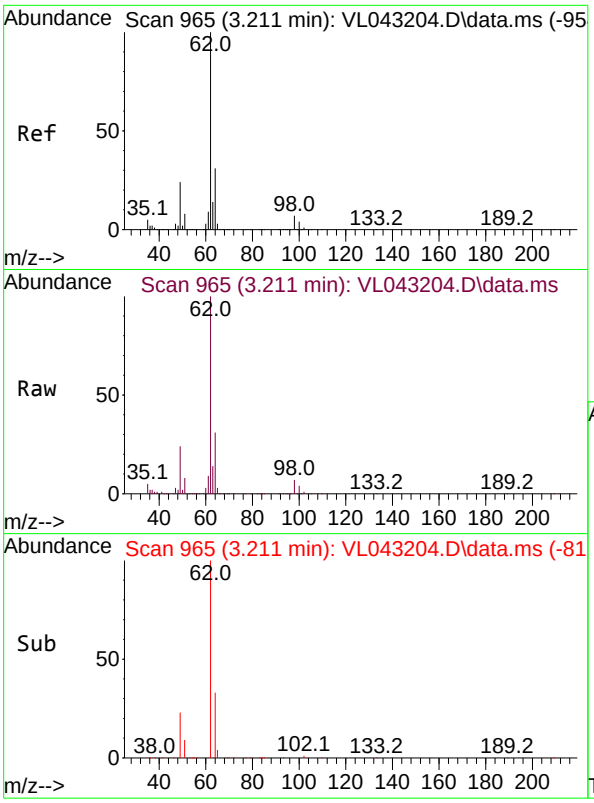


#36
Benzene
Concen: 9.453 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 78 Resp: 256954

Ion	Ratio	Lower	Upper
78	100		
77	21.9	17.5	26.3
50	19.4	15.5	23.3

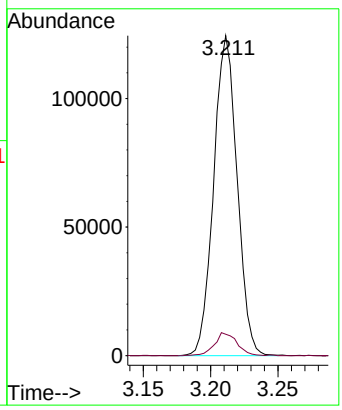




#37
1,2-Dichloroethane
Concen: 9.483 ppbv
RT: 3.211 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 62 Resp: 15076

Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.5	8.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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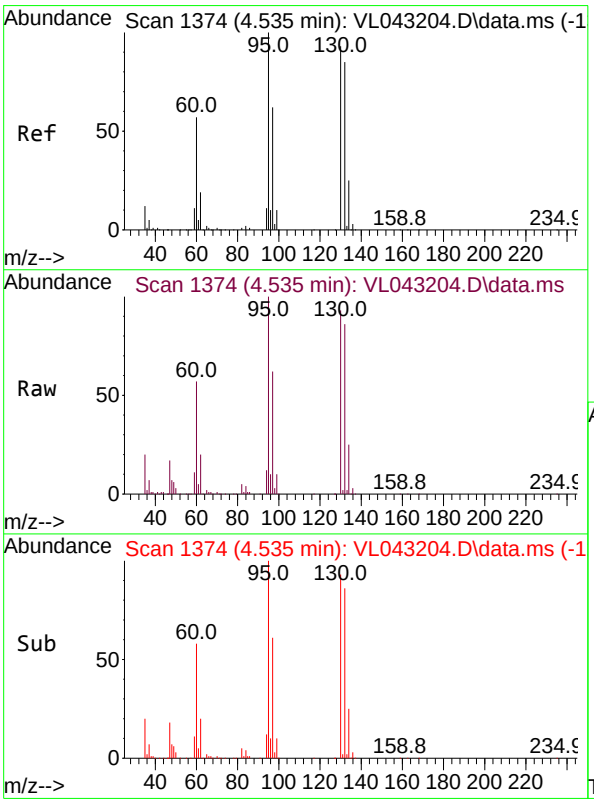
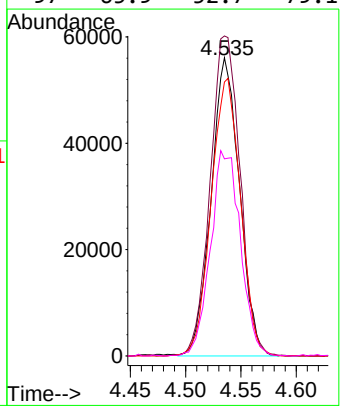
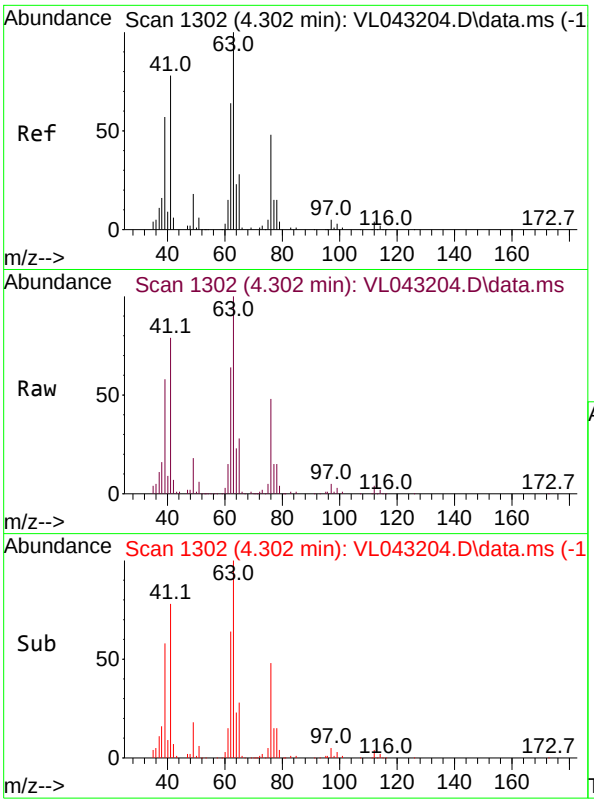


#38
Trichloroethene
Concen: 9.398 ppbv
RT: 4.535 min Scan# 1374
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:130 Resp: 100136

Ion	Ratio	Lower	Upper
130	100		
95	107.1	85.7	128.5
132	91.7	73.4	110.0
97	65.9	52.7	79.1

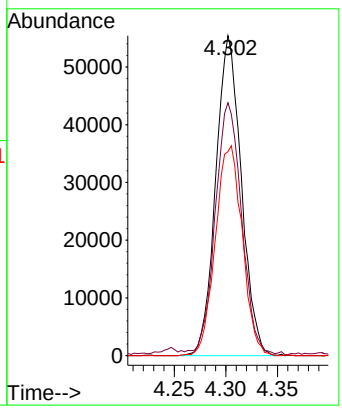




#39
1,2-Dichloropropane
Concen: 9.559 ppbv
RT: 4.302 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 63 Resp: 9509

Ion	Ratio	Lower	Upper
63	100		
41	78.2	62.6	93.8
62	63.8	51.0	76.6



Instrument :
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VSTDICCC010

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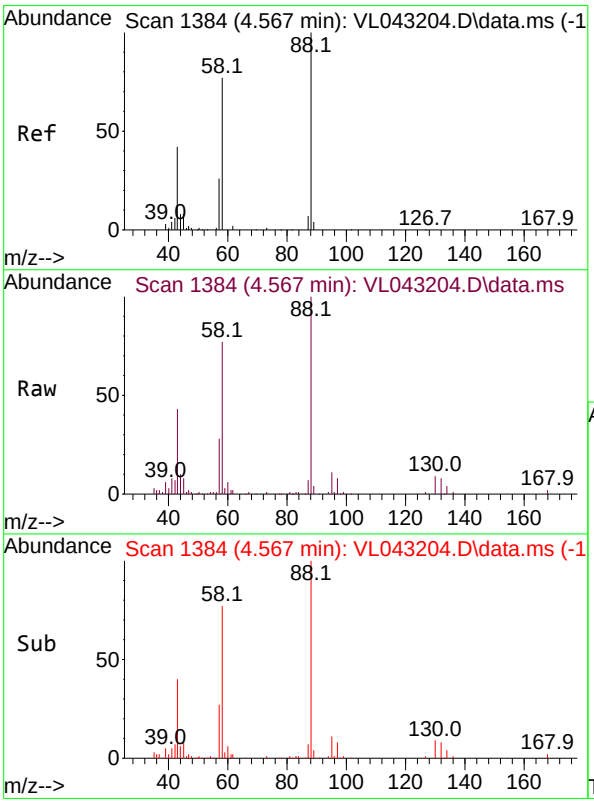
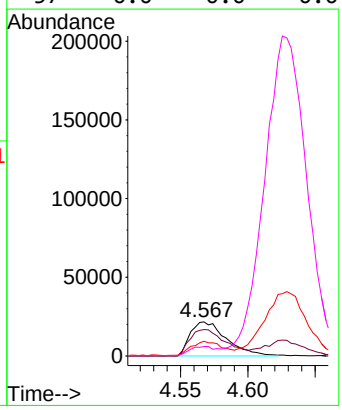
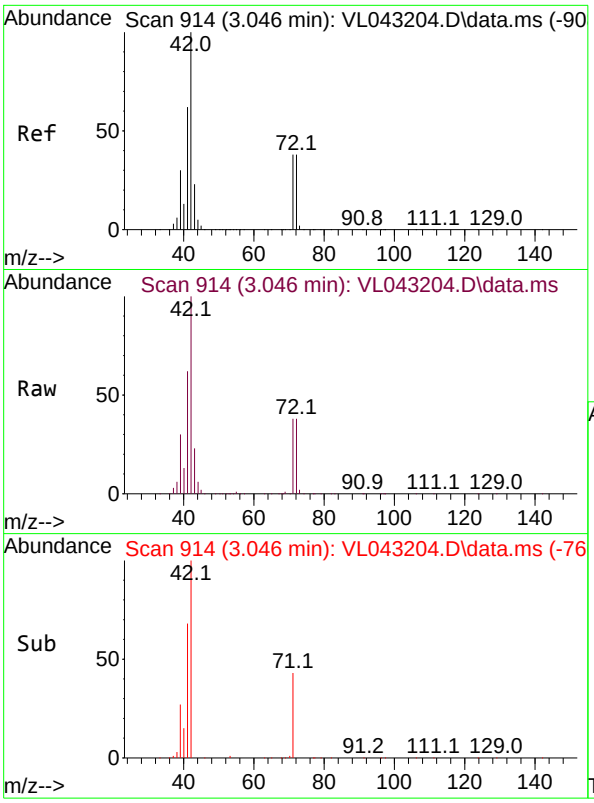


#40
1,4-Dioxane
Concen: 9.043 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 88 Resp: 40441

Ion	Ratio	Lower	Upper
88	100		
58	78.8	63.0	94.6
43	40.6	32.5	48.7
57	0.0	0.0	0.0

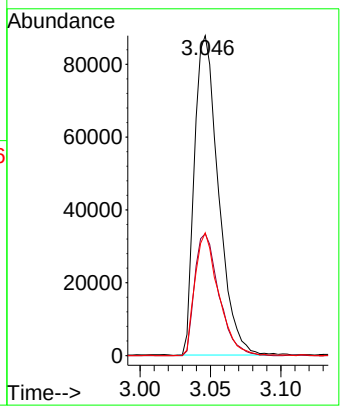




#41
Tetrahydrofuran
Concen: 9.426 ppbv
RT: 3.046 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 42 Resp: 10429

Ion	Ratio	Lower	Upper
42	100		
72	38.3	30.6	46.0
71	38.1	30.5	45.7



Instrument :
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ClientSampleId :
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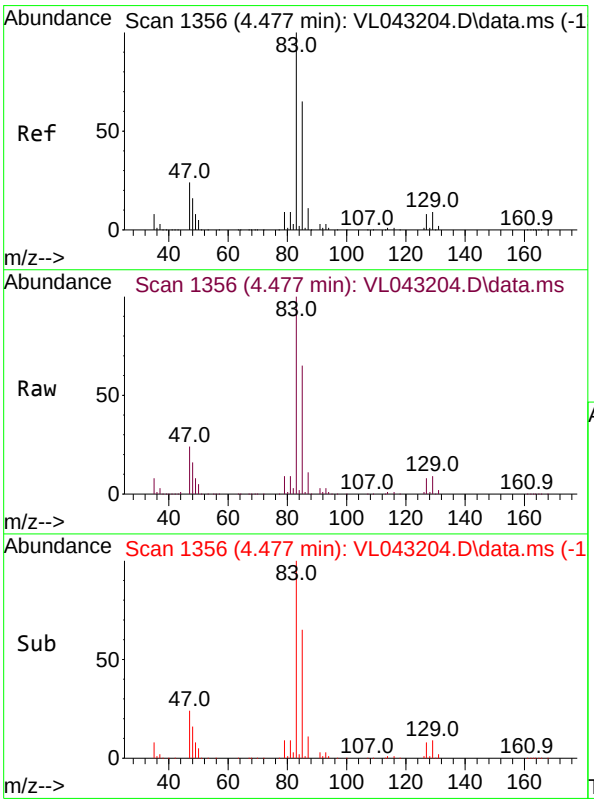
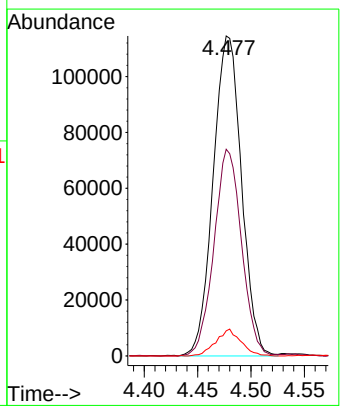
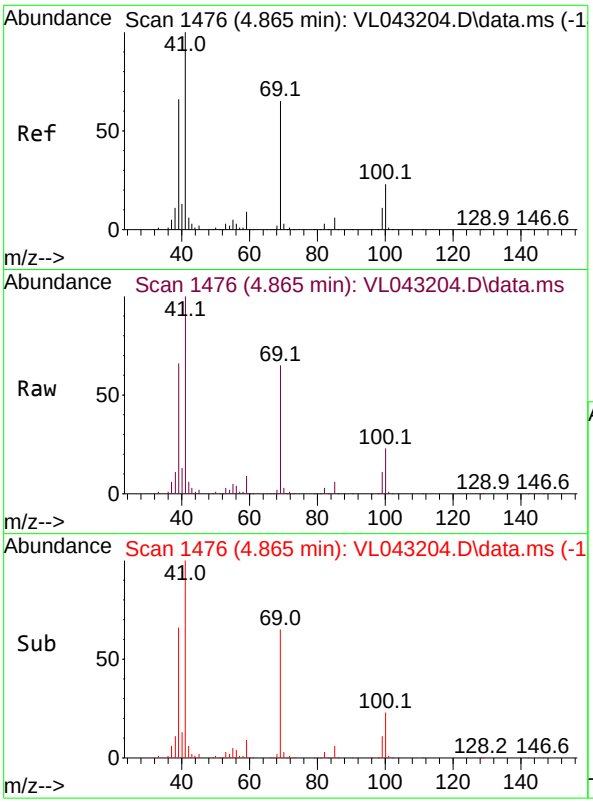


#42
Bromodichloromethane
Concen: 9.643 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 83 Resp: 211504

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.7	77.5
127	7.9	6.3	9.5

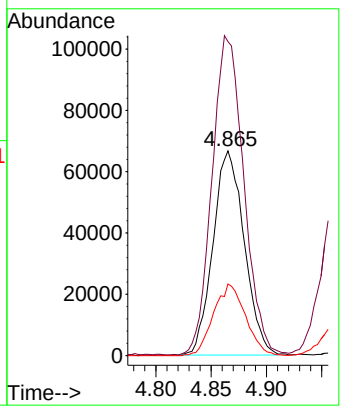




#43
Methyl Methacrylate
Concen: 9.080 ppbv
RT: 4.865 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 69 Resp: 13100

Ion	Ratio	Lower	Upper
69	100		
41	158.4	126.7	190.1
100	35.8	28.6	43.0



Instrument :
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ClientSampleId :
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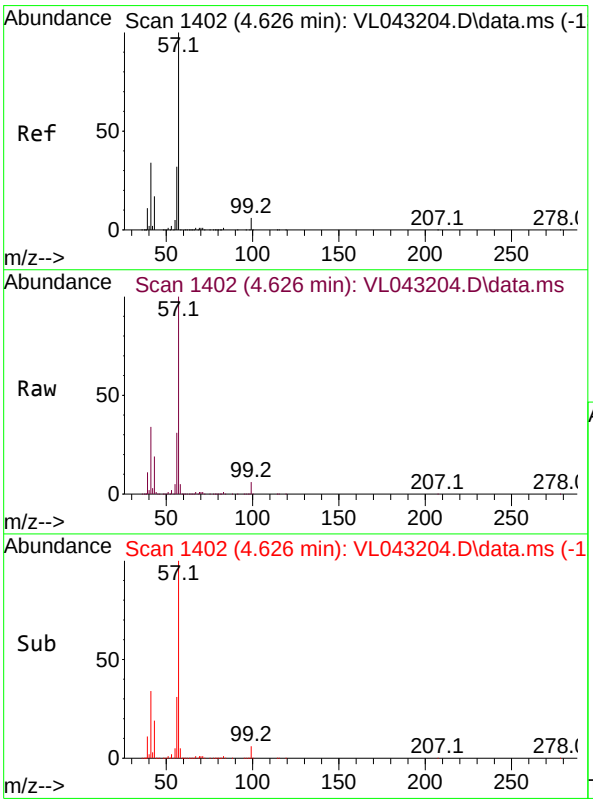
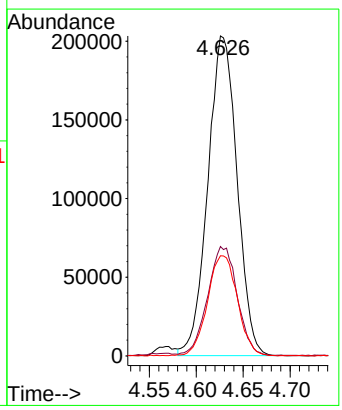
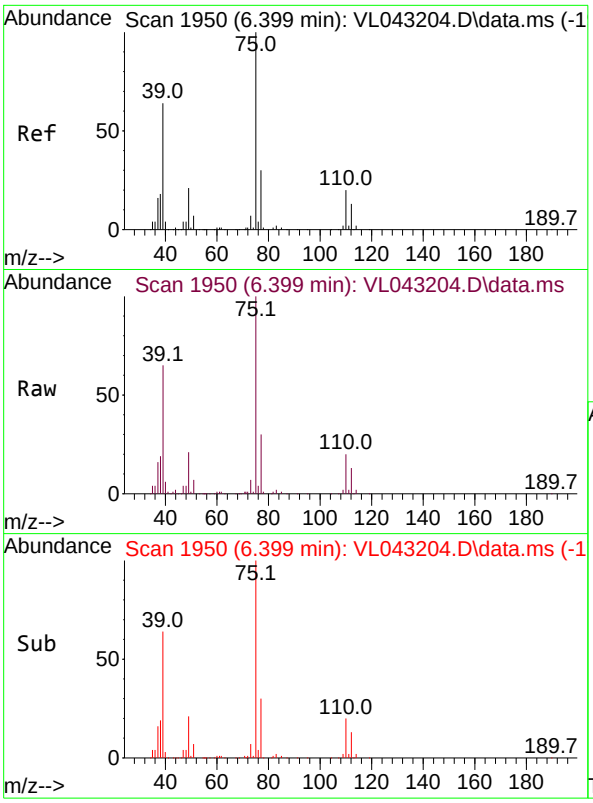


#44
2,2,4-Trimethylpentane
Concen: 9.451 ppbv
RT: 4.626 min Scan# 1402
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 57 Resp: 441234

Ion	Ratio	Lower	Upper
57	100		
41	35.0	28.0	42.0
56	32.0	25.6	38.4

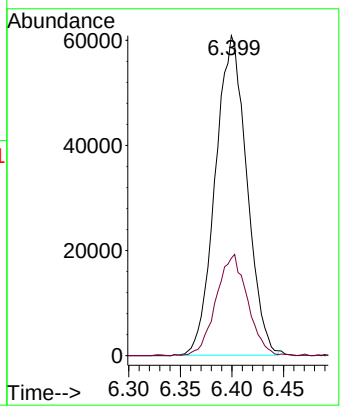




#45
t-1,3-Dichloropropene
Concen: 9.601 ppbv
RT: 6.399 min Scan# 19
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 75 Resp: 12912

Ion	Ratio	Lower	Upper
75	100		
77	30.4	24.3	36.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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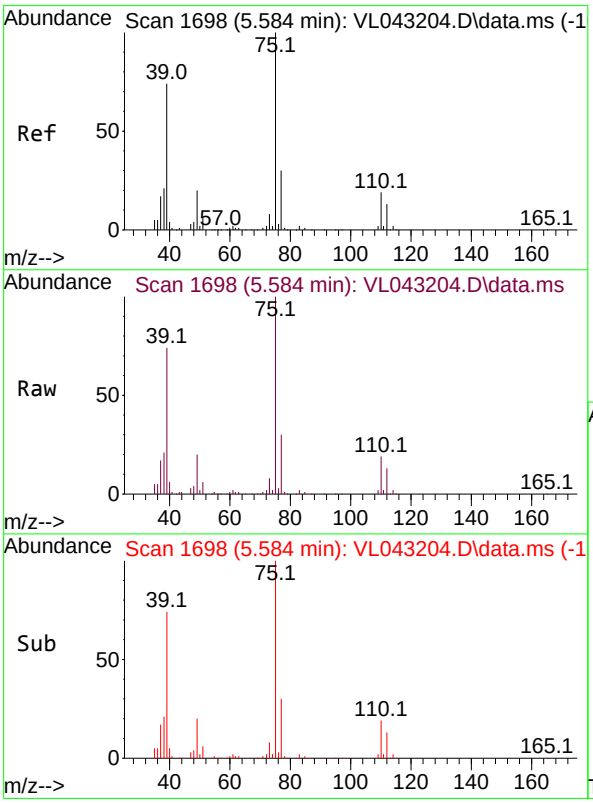
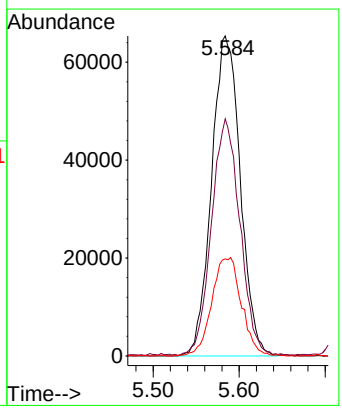
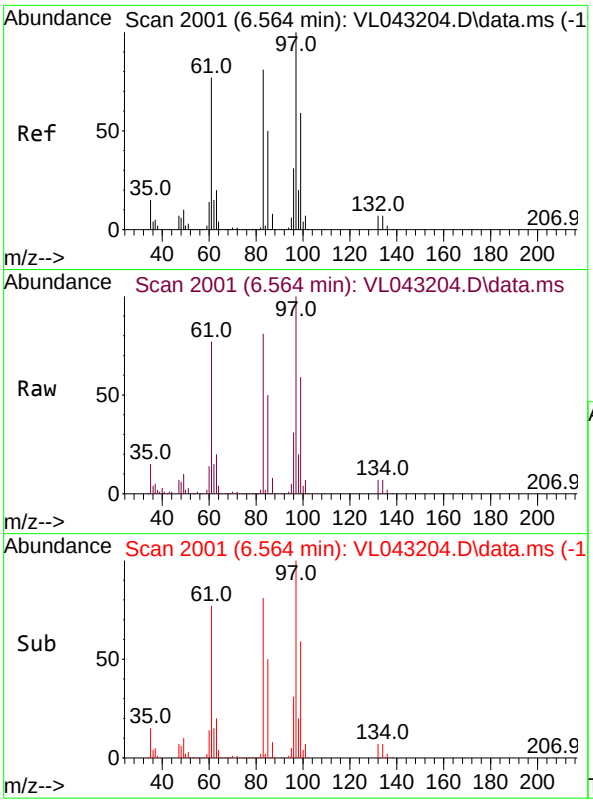


#46
cis-1,3-Dichloropropene
Concen: 9.603 ppbv
RT: 5.584 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 75 Resp: 151655

Ion	Ratio	Lower	Upper
75	100		
39	73.9	59.1	88.7
77	30.2	24.2	36.2

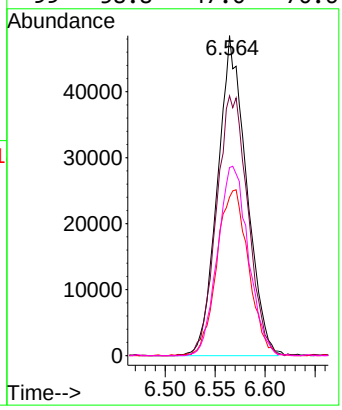




#47
1,1,2-Trichloroethane
Concen: 9.193 ppbv
RT: 6.564 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 97 Resp: 9751

Ion	Ratio	Lower	Upper
97	100		
83	80.8	64.6	97.0
85	49.3	39.4	59.2
99	58.8	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
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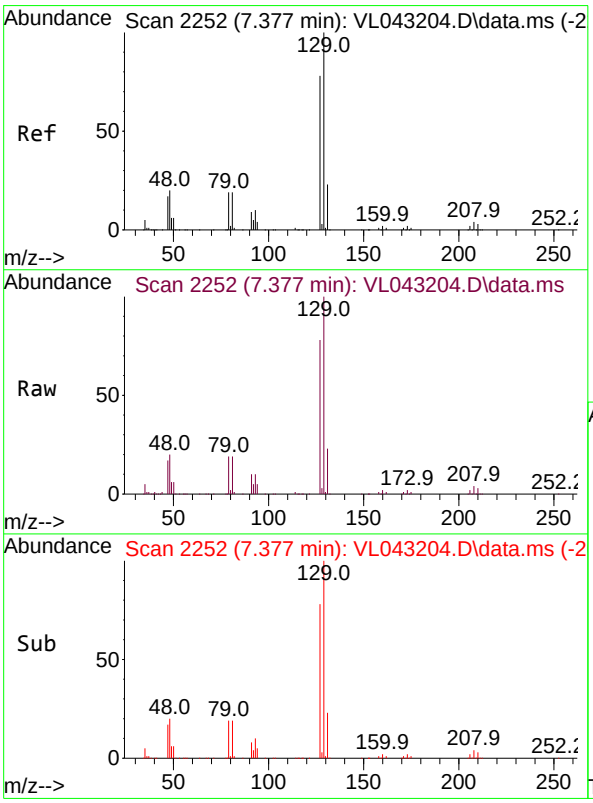
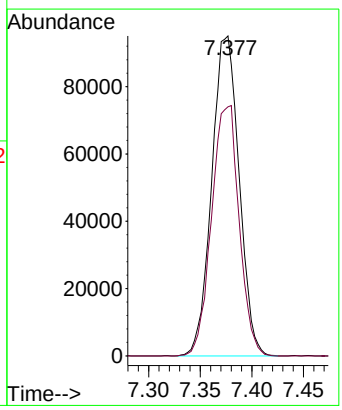
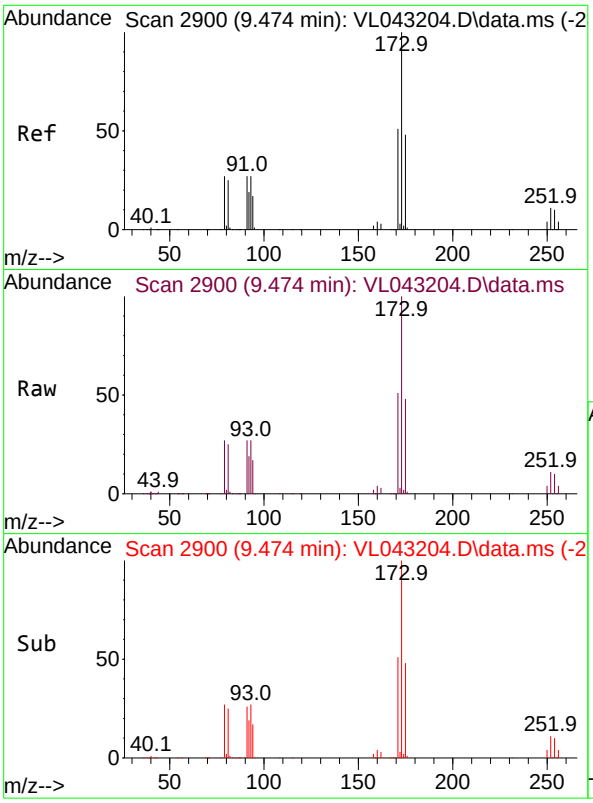


#48
Dibromochloromethane
Concen: 9.670 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:129 Resp: 175529

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9

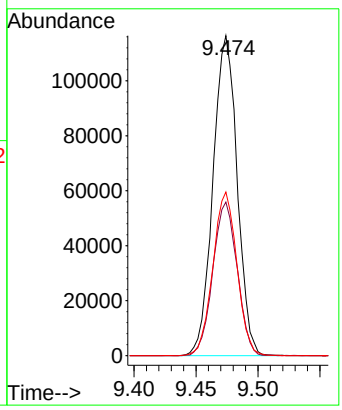




#49
Bromoform
Concen: 9.800 ppbv
RT: 9.474 min Scan# 29
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:173 Resp: 15756

Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.6	58.0
171	50.8	40.6	61.0



Instrument :
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ClientSampleId :
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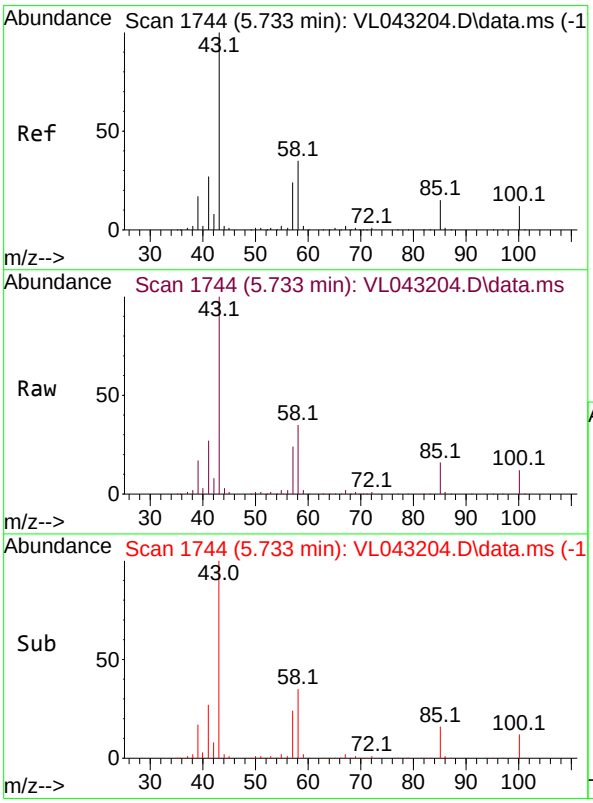
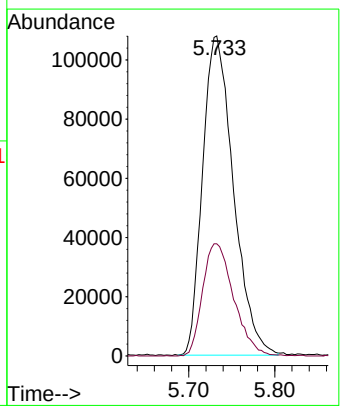
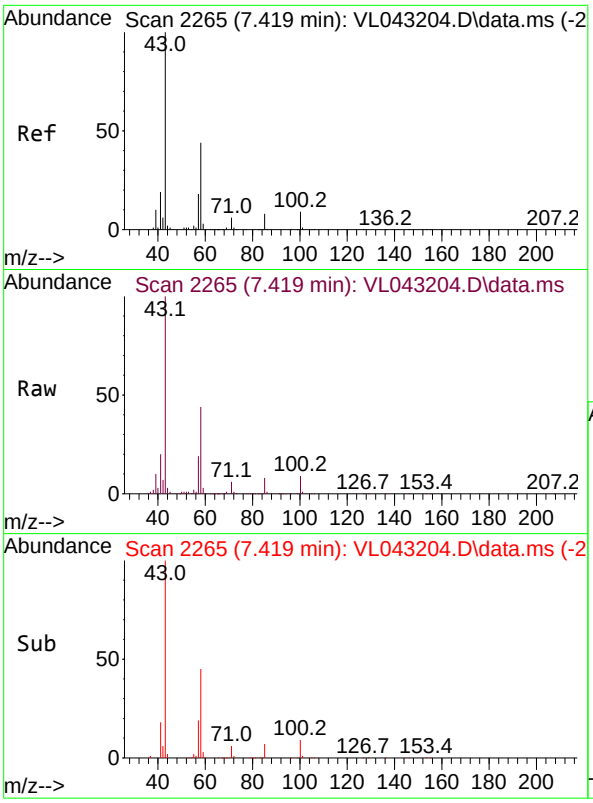


#50
4-Methyl-2-Pentanone
Concen: 9.509 ppbv
RT: 5.733 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 268369

Ion	Ratio	Lower	Upper
43	100		
58	35.5	28.4	42.6

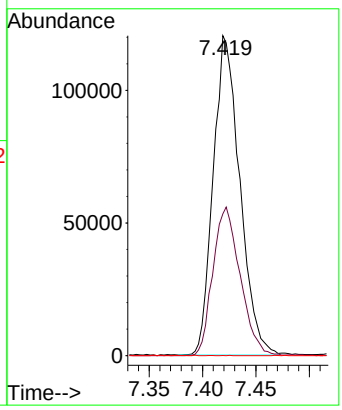




#51
2-Hexanone
Concen: 9.503 ppbv
RT: 7.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 20826

Ion	Ratio	Lower	Upper
43	100		
58	48.0	38.4	57.6
98	0.0	0.0	0.0



Instrument :
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ClientSampleId :
VSTDICCC010

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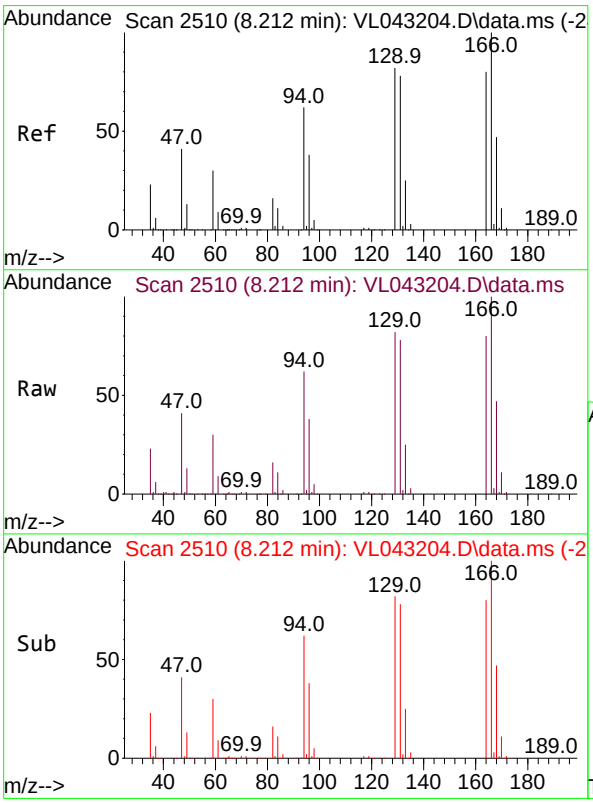
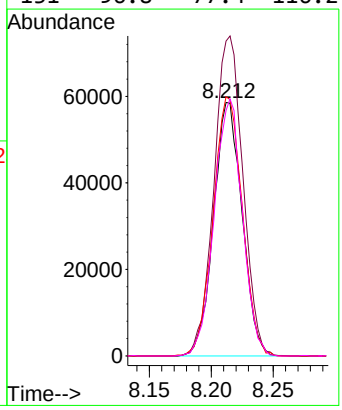
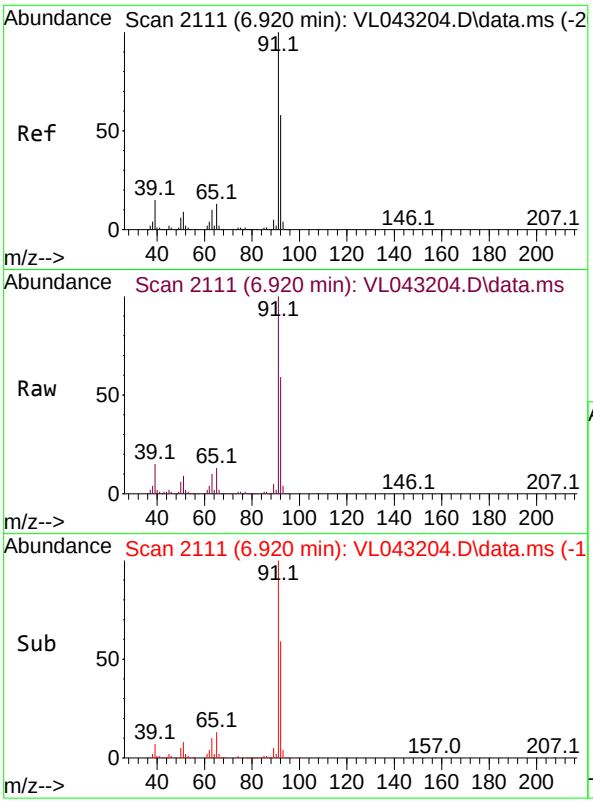


#52
Tetrachloroethene
Concen: 9.249 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:164 Resp: 93518

Ion	Ratio	Lower	Upper
164	100		
166	124.3	99.4	149.2
129	102.3	81.8	122.8
131	96.8	77.4	116.2

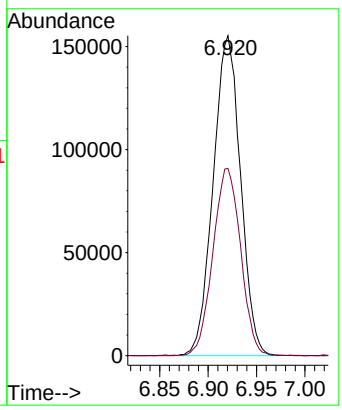




#53
Toluene
Concen: 9.422 ppbv
RT: 6.920 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 305169

Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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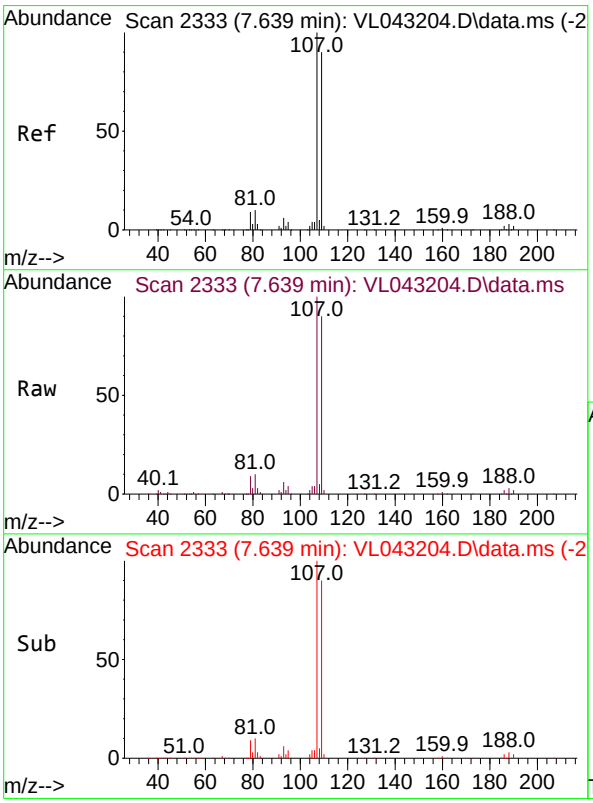
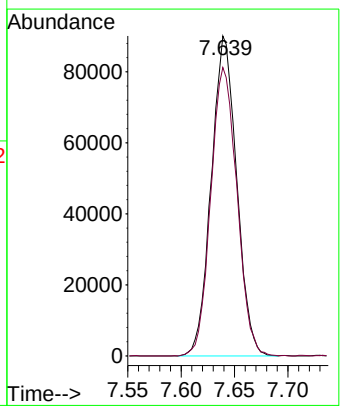
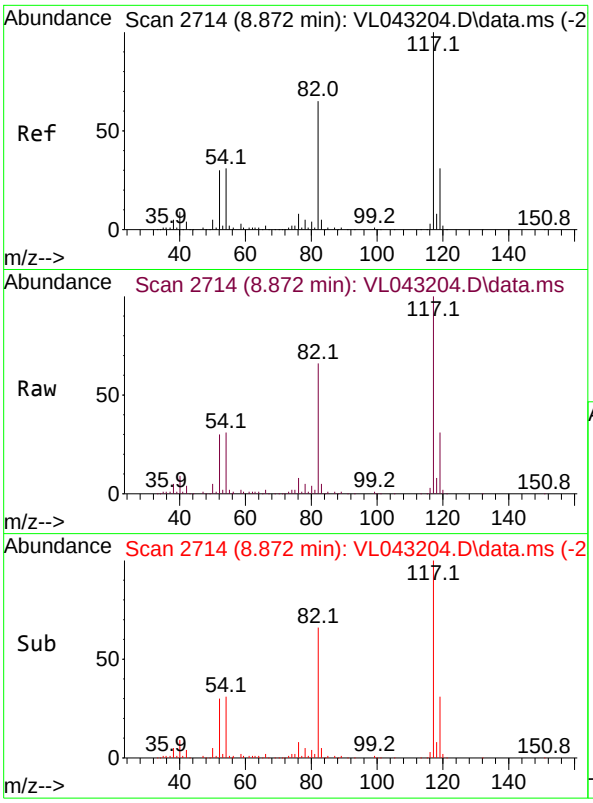


#54
1,2-Dibromoethane
Concen: 9.588 ppbv
RT: 7.639 min Scan# 2333
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:107 Resp: 148973

Ion	Ratio	Lower	Upper
107	100		
109	90.1	72.1	108.1

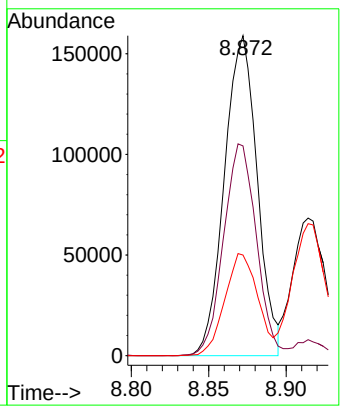




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:117 Resp: 23477

Ion	Ratio	Lower	Upper
117	100		
82	70.1	56.1	84.1
119	31.3	25.0	37.6



Instrument :
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ClientSampleId :
VSTDICCC010

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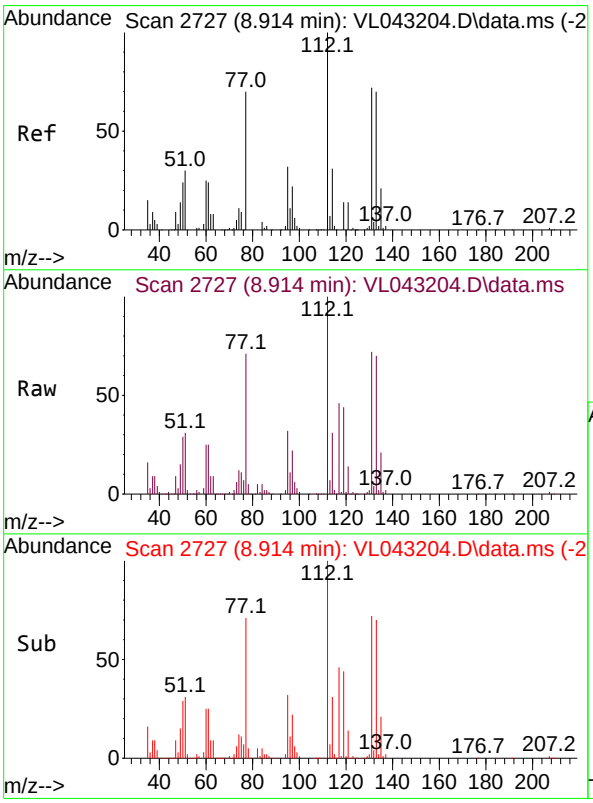
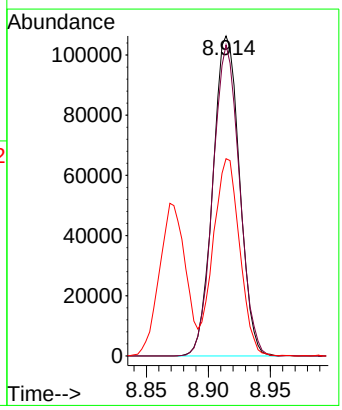
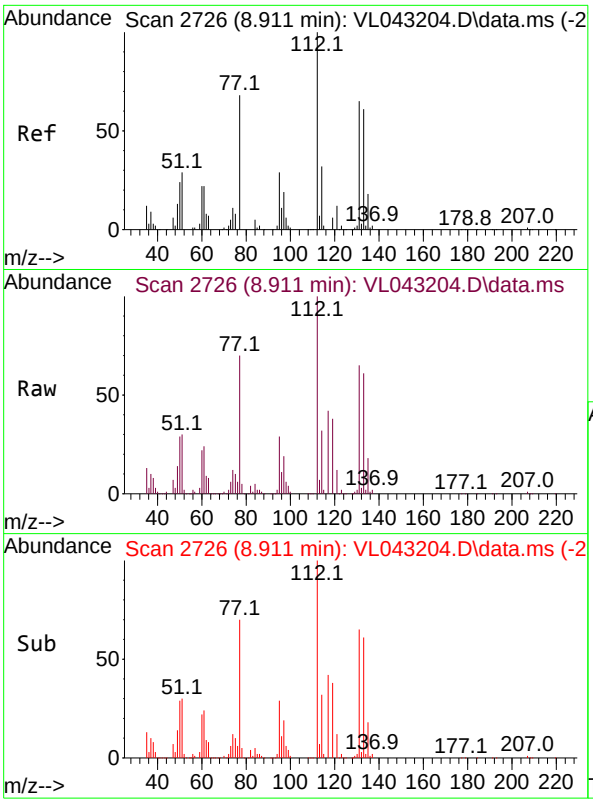


#56
1,1,1,2-Tetrachloroethane
Concen: 9.207 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:131 Resp: 158856

Ion	Ratio	Lower	Upper
131	100		
133	96.8	77.4	116.2
119	61.4	49.1	73.7





#57
Chlorobenzene
Concen: 9.438 ppbv
RT: 8.911 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:112 Resp: 22749

Ion	Ratio	Lower	Upper
112	100		
77	69.4	55.5	83.3
114	32.3	29.1	35.5

Instrument :
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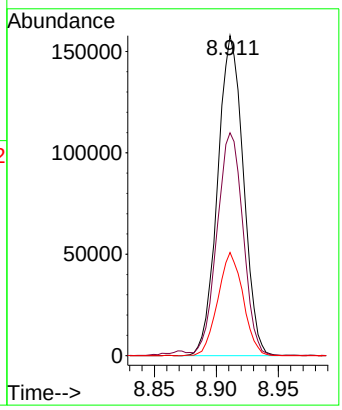
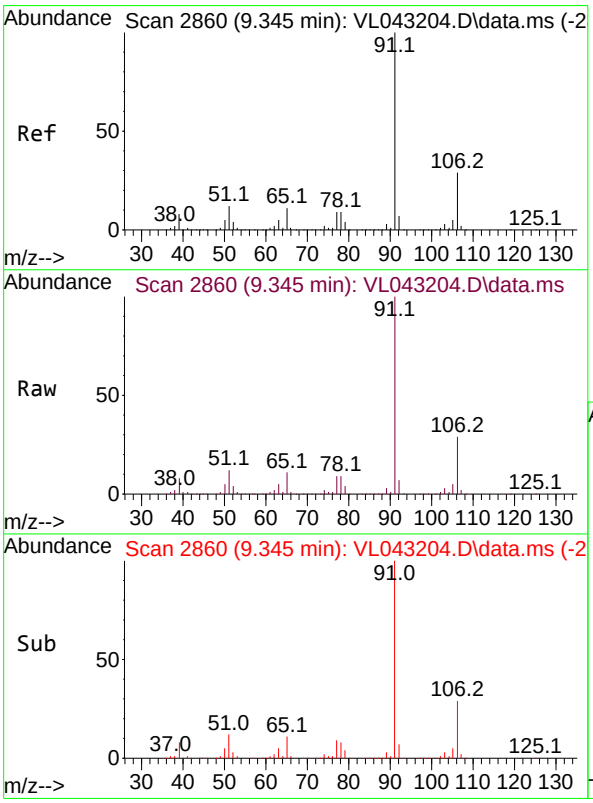
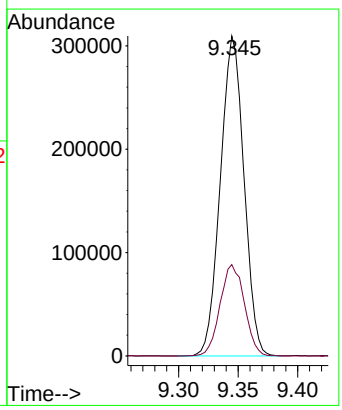


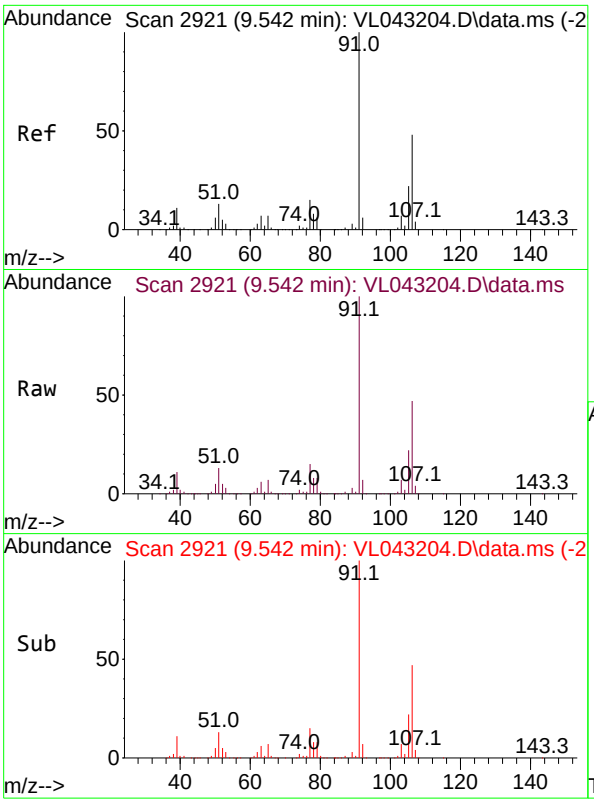


#58
Ethyl Benzene
Concen: 9.461 ppbv
RT: 9.345 min Scan# 2860
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 427530

Ion	Ratio	Lower	Upper
91	100		
106	28.5	22.8	34.2

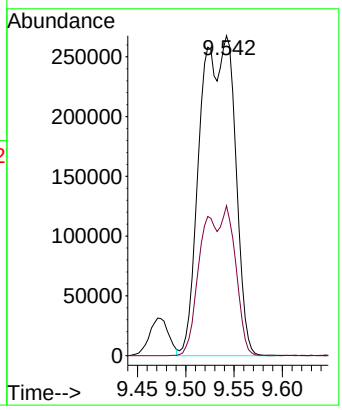




#59
m/p-Xylene
Concen: 18.519 ppbv m
RT: 9.542 min Scan# 29
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 673371

Ion	Ratio	Lower	Upper
91	100		
106	45.1	36.1	54.1



Instrument :
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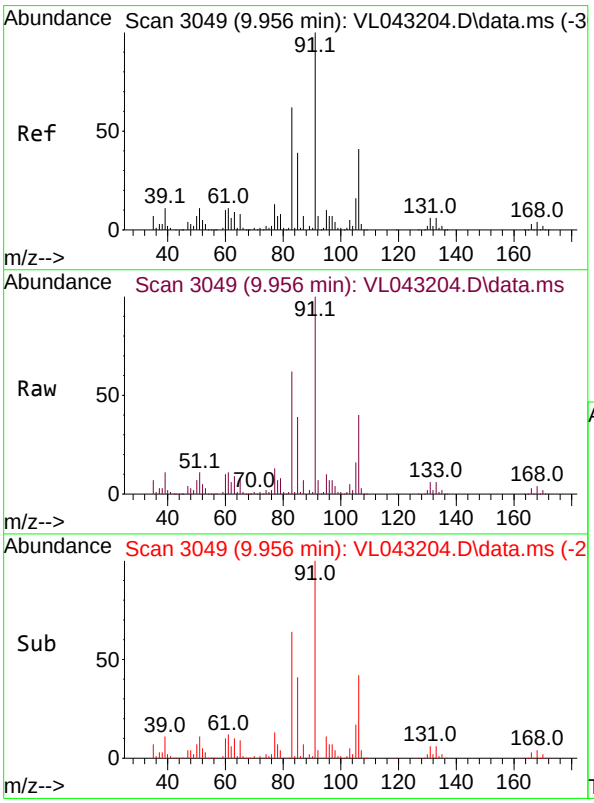
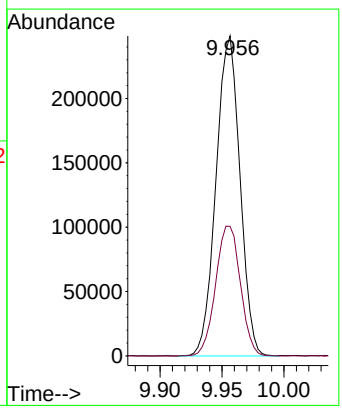
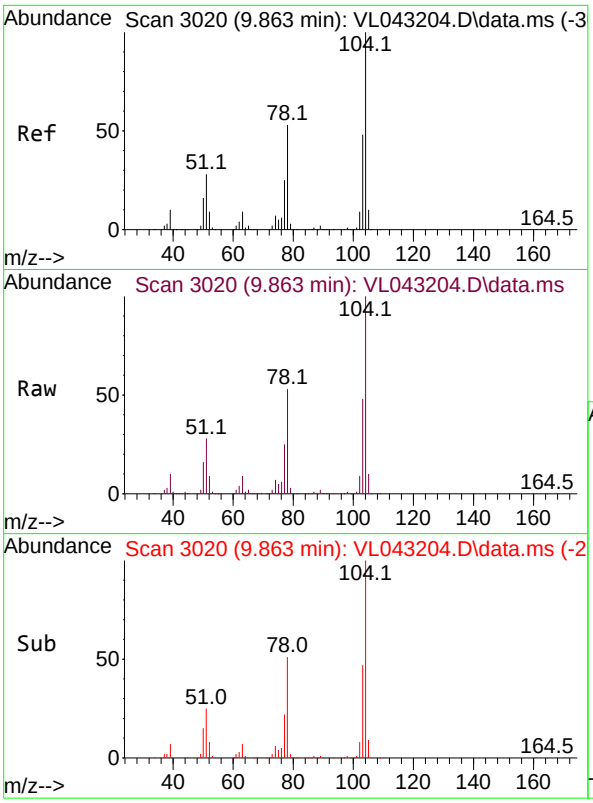


#60
o-Xylene
Concen: 9.202 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 333044

Ion	Ratio	Lower	Upper
91	100		
106	41.9	20.9	62.8

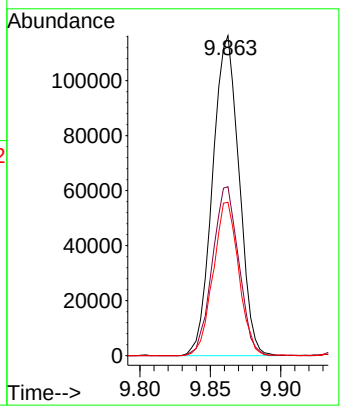




#61
Styrene
Concen: 9.607 ppbv
RT: 9.863 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:104 Resp: 15217

Ion	Ratio	Lower	Upper
104	100		
78	52.6	42.1	63.1
103	46.5	37.2	55.8



Instrument :
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ClientSampleId :
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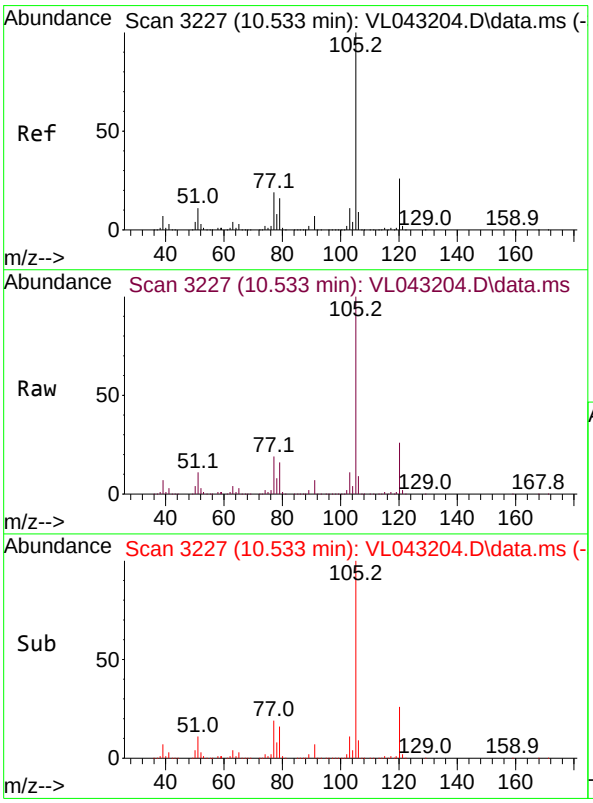
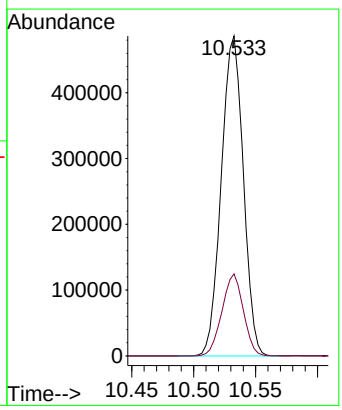
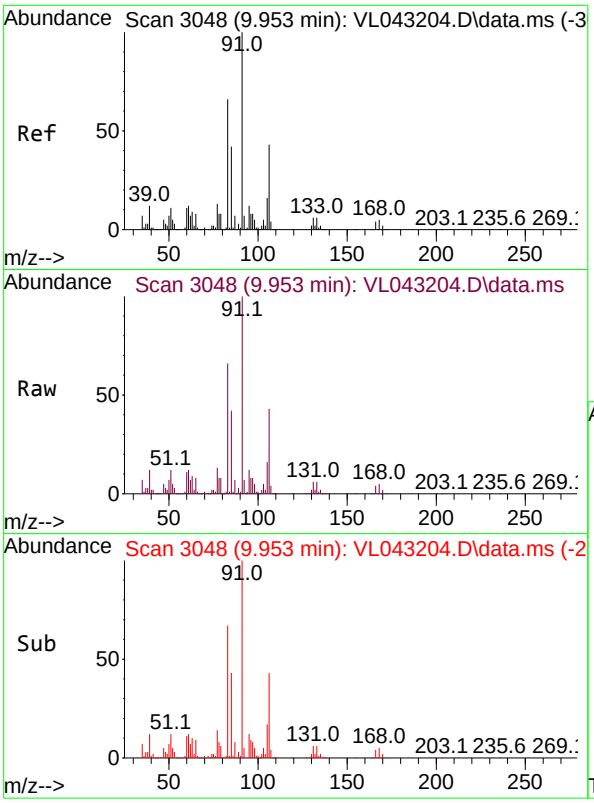


#62
Isopropylbenzene
Concen: 9.269 ppbv
RT: 10.533 min Scan# 3227
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 600155

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8

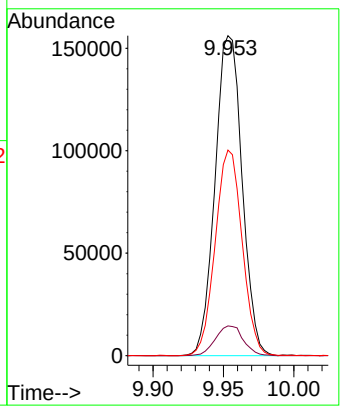




#63
1,1,2,2-Tetrachloroethane
Concen: 9.109 ppbv
RT: 9.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 83 Resp: 20927

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	63.9	31.9	95.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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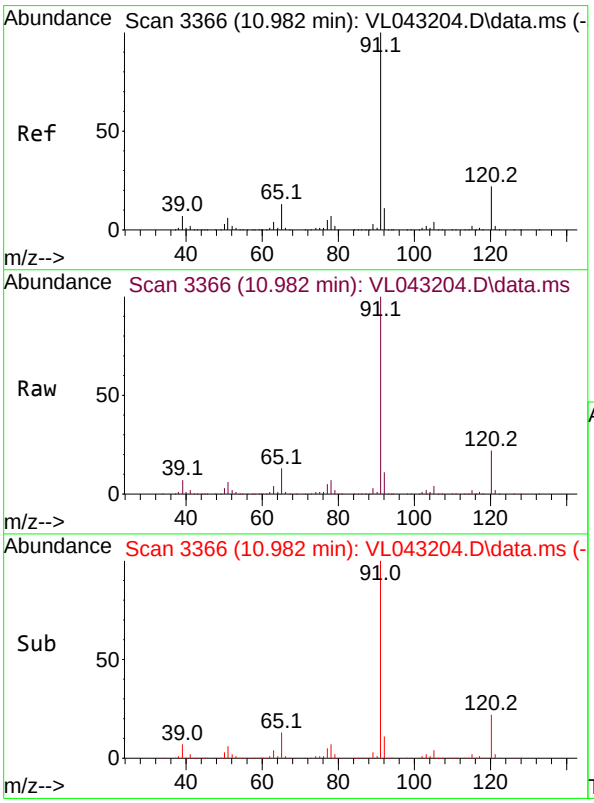
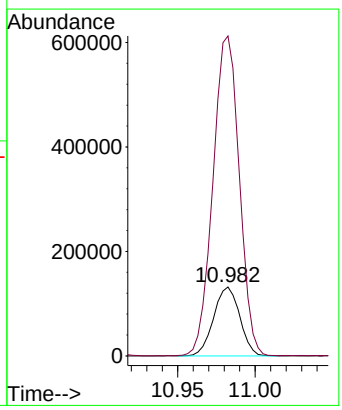
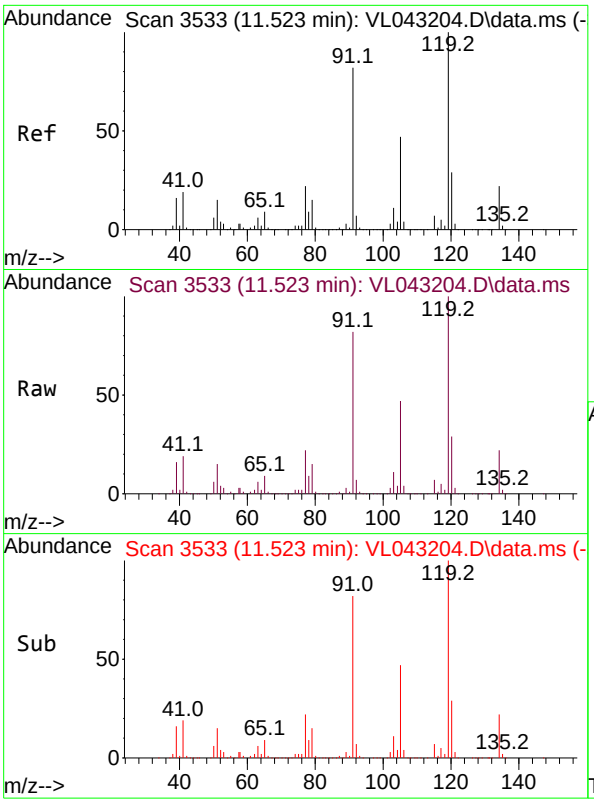


#64
n-propylbenzene
Concen: 9.271 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:120 Resp: 154239

Ion	Ratio	Lower	Upper
120	100		
91	471.4	377.1	565.7

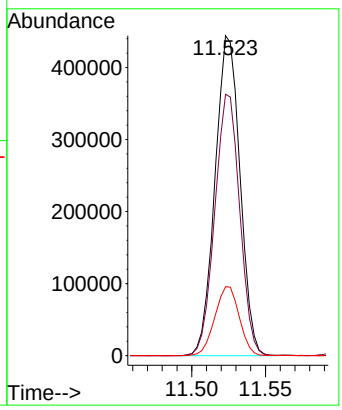




#65
tert-Butylbenzene
Concen: 9.029 ppbv
RT: 11.523 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:119 Resp: 52210

Ion	Ratio	Lower	Upper
119	100		
91	81.6	65.3	97.9
134	21.2	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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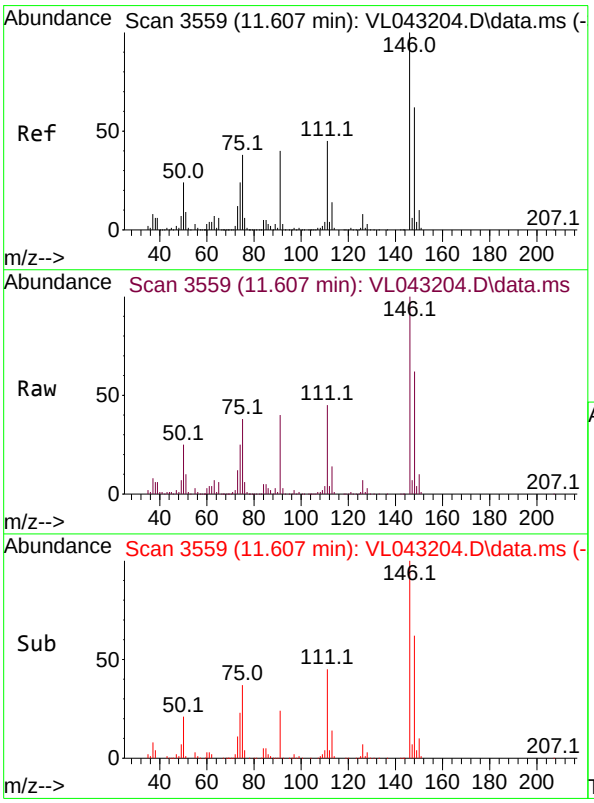
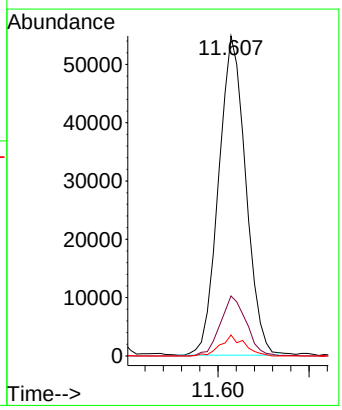
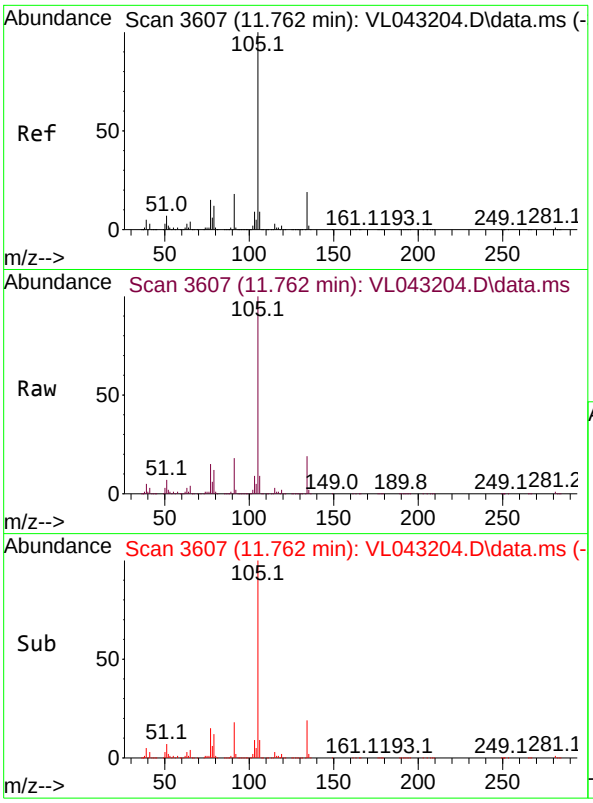


#66
Benzyl Chloride
Concen: 9.649 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 56620

Ion	Ratio	Lower	Upper
91	100		
126	18.0	14.4	21.6
128	5.7	4.6	6.8

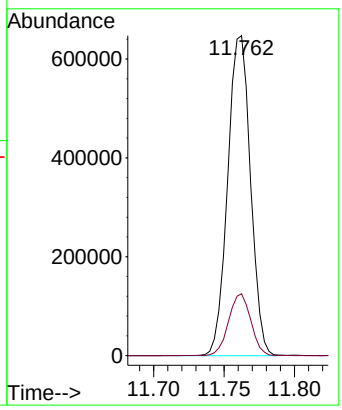




#67
sec-Butylbenzene
Concen: 9.039 ppbv
RT: 11.762 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 72957

Ion	Ratio	Lower	Upper
105	100		
134	18.8	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
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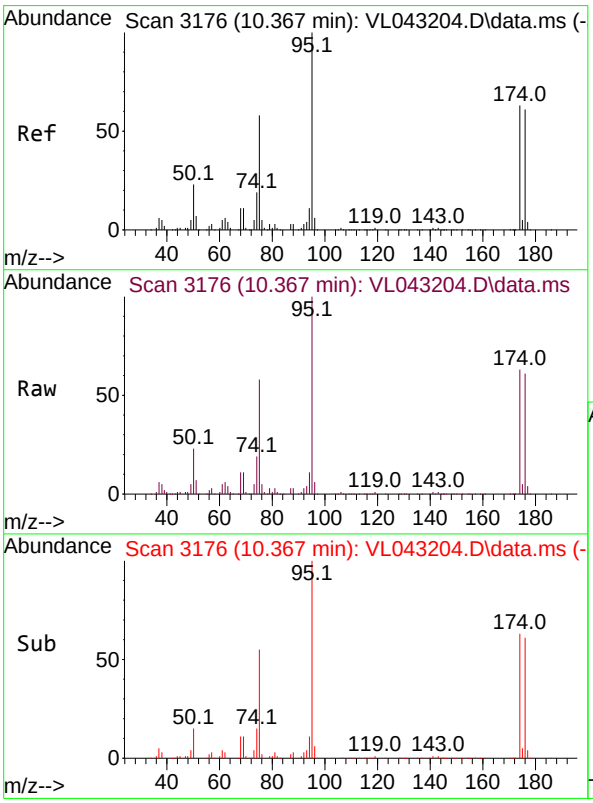
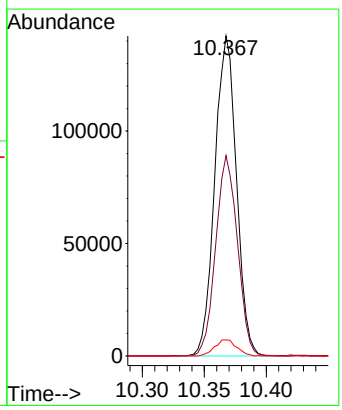
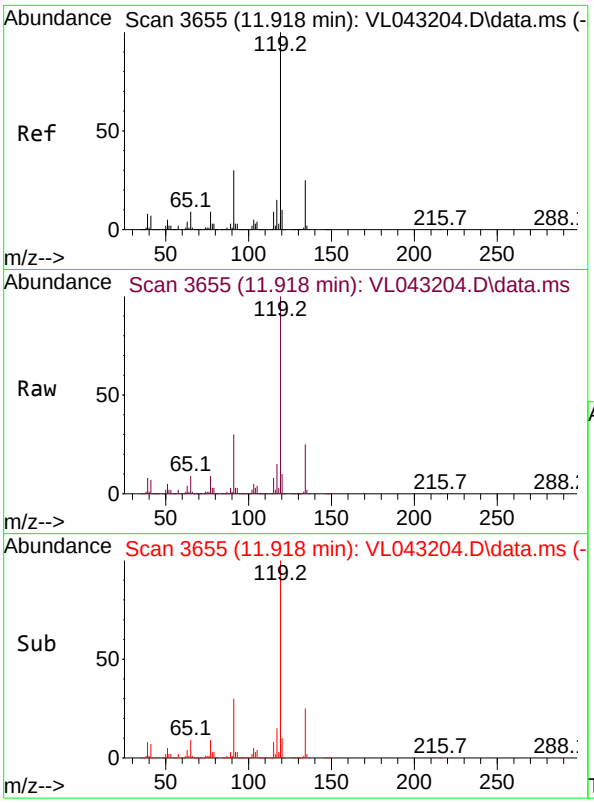


#68
1-Bromo-4-Fluorobenzene
Concen: 10.025 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 95 Resp: 172524

Ion	Ratio	Lower	Upper
95	100		
174	62.7	50.2	75.2
175	5.1	4.1	6.1

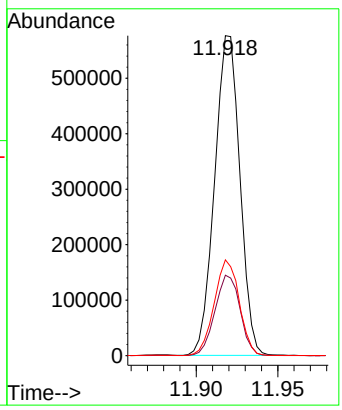




#69
p-Isopropyltoluene
Concen: 9.135 ppbv
RT: 11.918 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:119 Resp: 62458

Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	29.8	23.8	35.8



Instrument :
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ClientSampleId :
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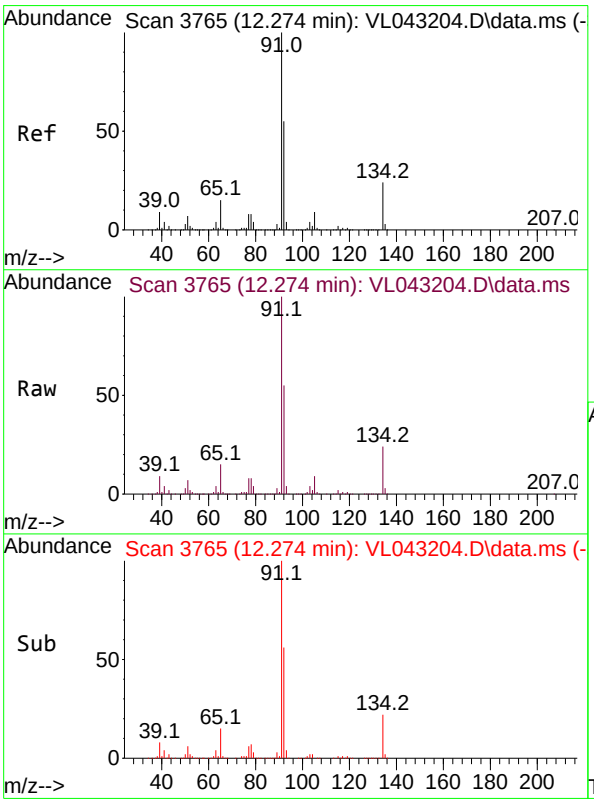
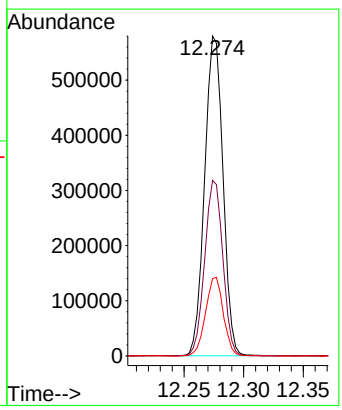
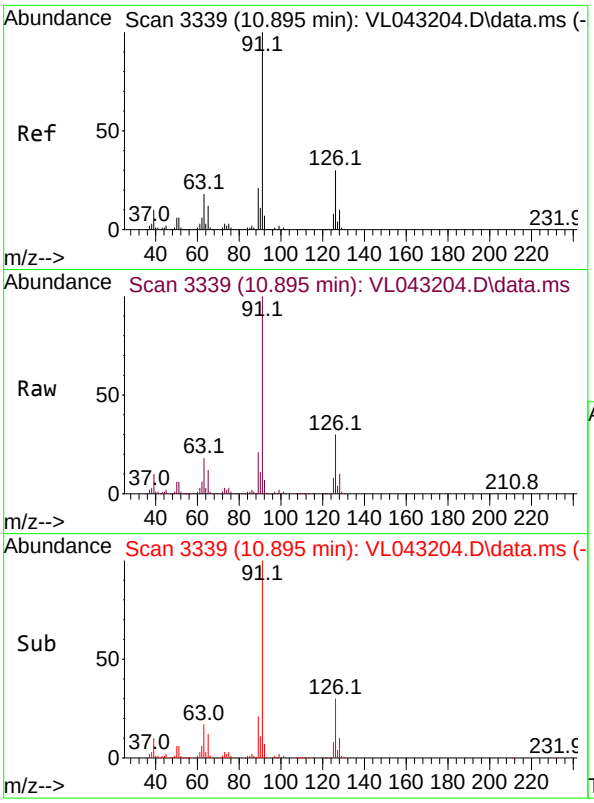


#70
n-Butylbenzene
Concen: 9.341 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 619610

Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.5	65.3
134	23.8	19.0	28.6

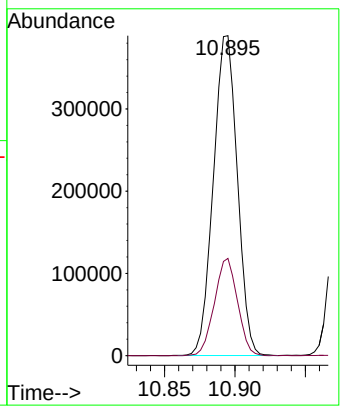




#71
2-Chlorotoluene
Concen: 9.245 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 46011

Ion	Ratio	Lower	Upper
91	100		
126	29.2	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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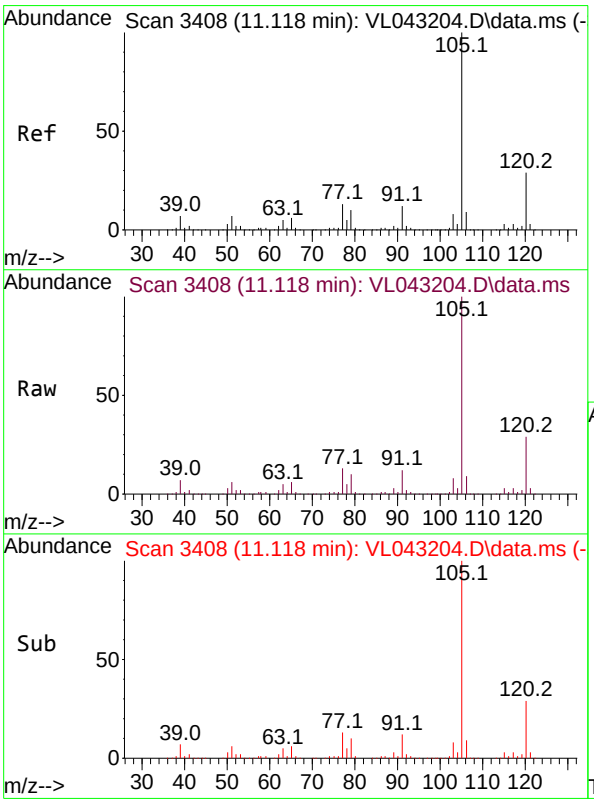
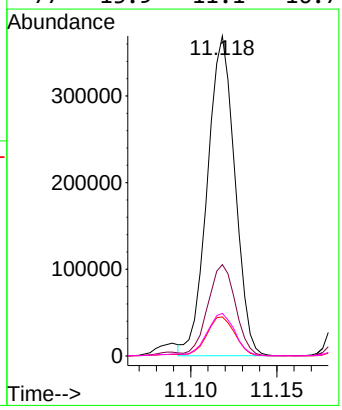
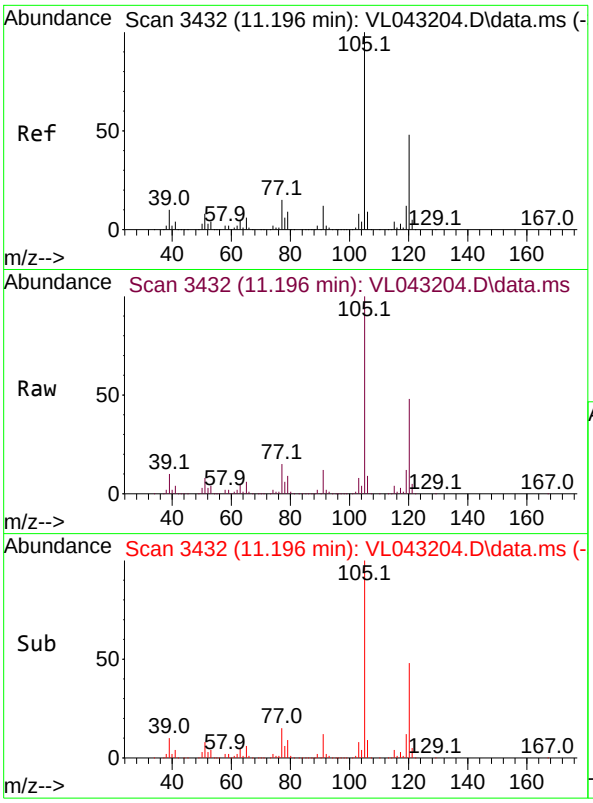


#72
4-Ethyltoluene
Concen: 9.316 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 410587

Ion	Ratio	Lower	Upper
105	100		
120	29.8	23.8	35.8
91	12.9	10.3	15.5
77	13.9	11.1	16.7

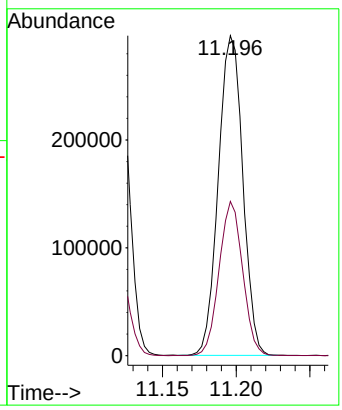




#73
1,3,5-Trimethylbenzene
Concen: 9.244 ppbv
RT: 11.196 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 34190

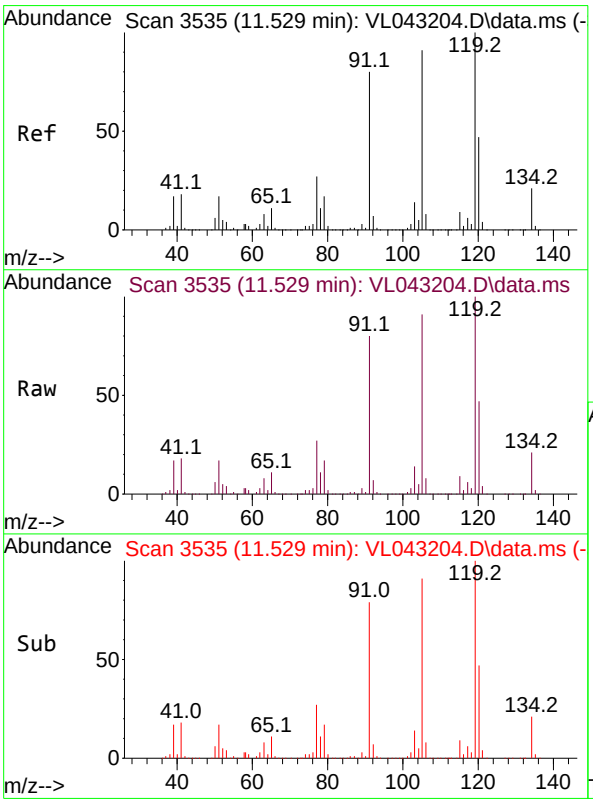
Ion	Ratio	Lower	Upper
105	100		
120	48.2	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

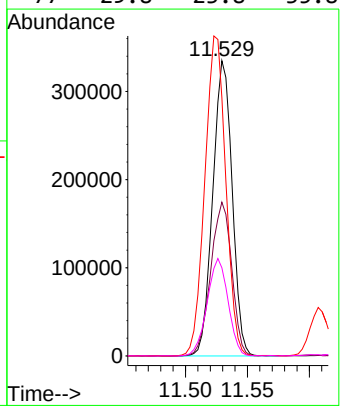
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

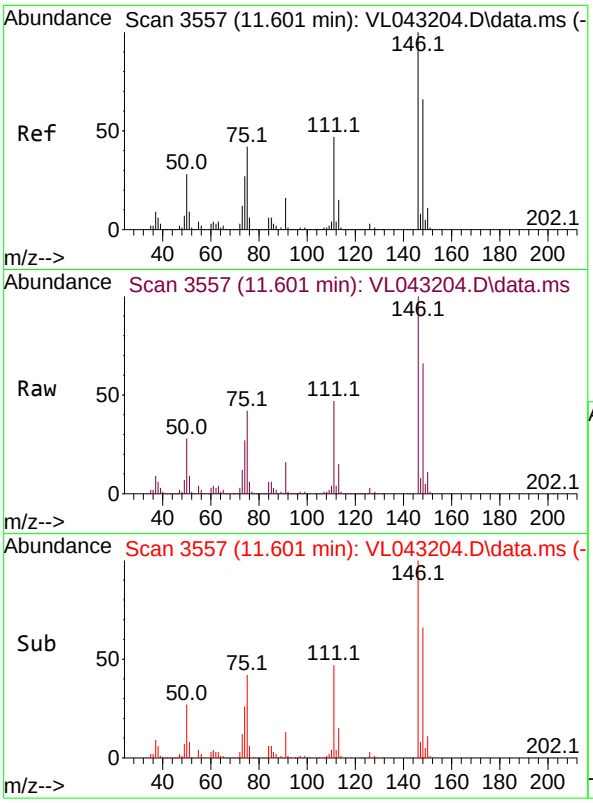


#74
1,2,4-Trimethylbenzene
Concen: 9.005 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 363476

Ion	Ratio	Lower	Upper
105	100		
120	52.1	41.7	62.5
91	87.5	70.0	105.0
77	29.8	23.8	35.8

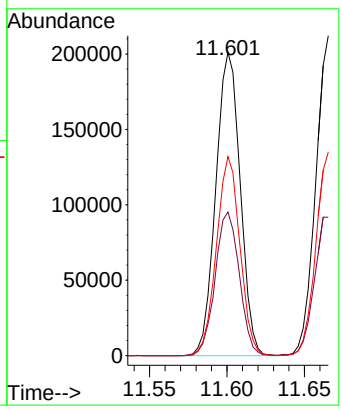




#75
1,3-Dichlorobenzene
Concen: 9.335 ppbv
RT: 11.601 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:146 Resp: 21989

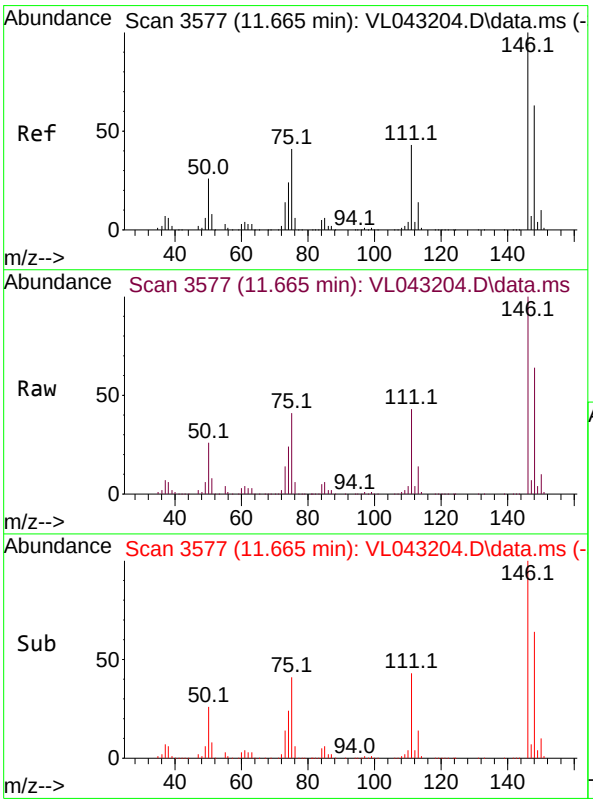
Ion	Ratio	Lower	Upper
146	100		
111	46.9	23.4	70.3
148	63.3	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

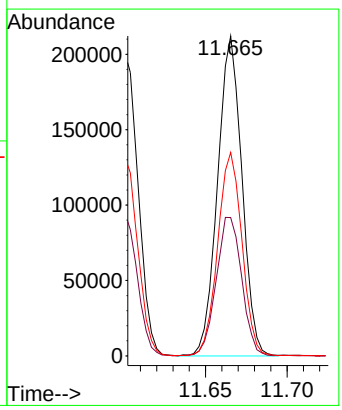
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

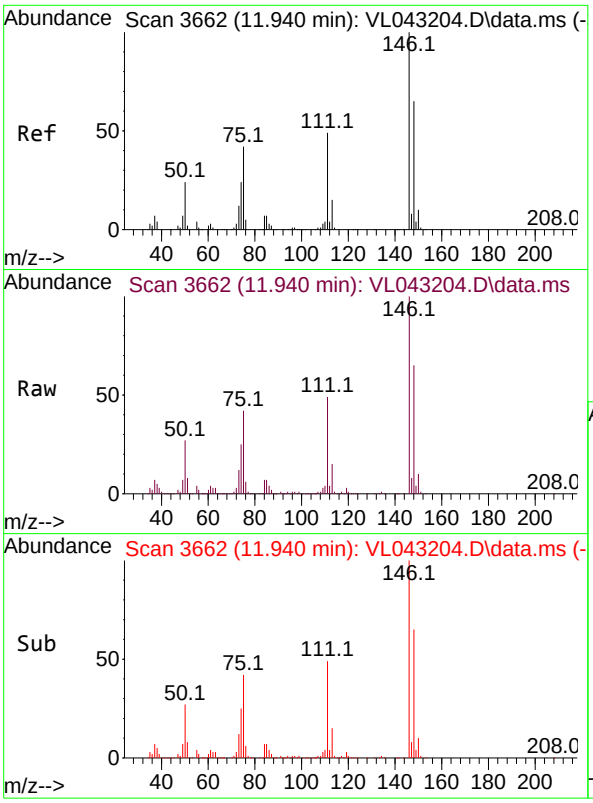


#76
1,4-Dichlorobenzene
Concen: 9.363 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:146 Resp: 220576

Ion	Ratio	Lower	Upper
146	100		
111	45.5	22.8	68.3
148	63.6	31.8	95.4

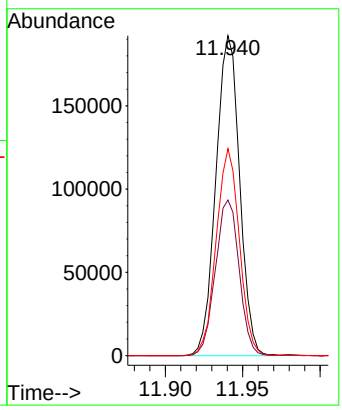




#77
1,2-Dichlorobenzene
Concen: 9.044 ppbv
RT: 11.940 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:146 Resp: 20482

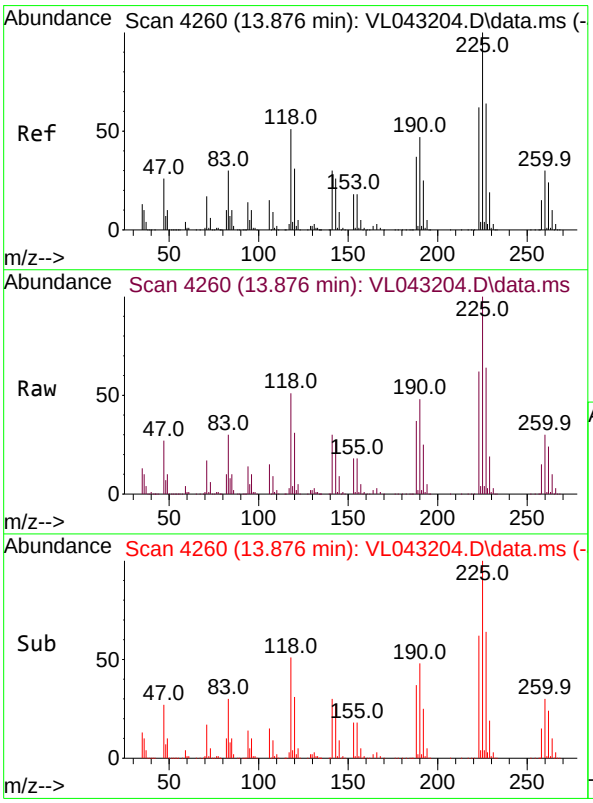
Ion	Ratio	Lower	Upper
146	100		
111	48.7	24.3	73.0
148	63.1	31.6	94.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

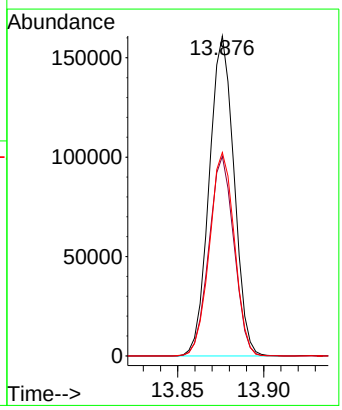
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

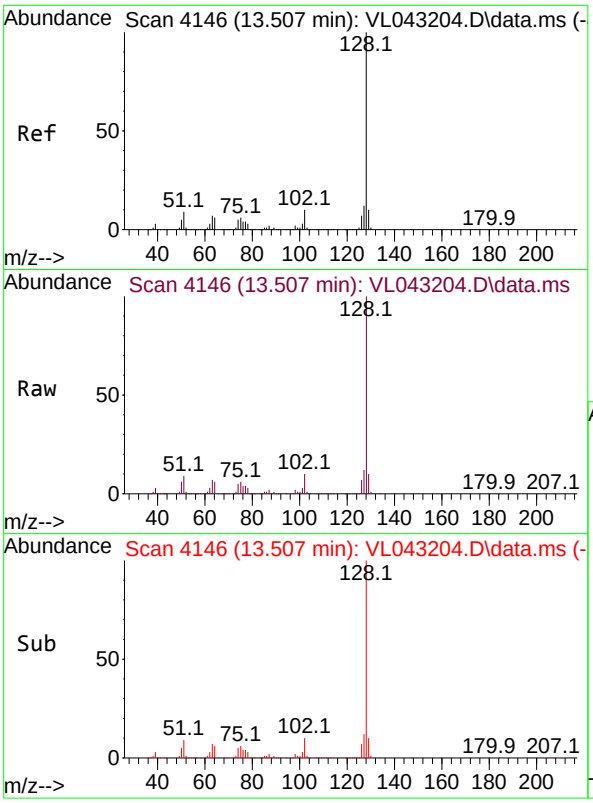


#78
Hexachloro-1,3-Butadiene
Concen: 8.520 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:225 Resp: 161034

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.4
227	63.9	51.1	76.7

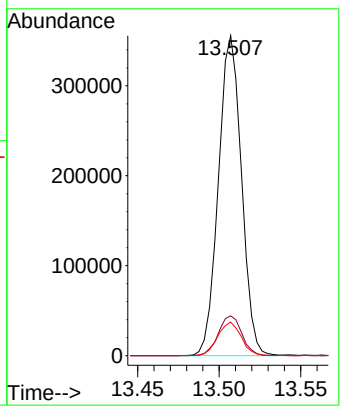




#79
Naphthalene
Concen: 9.795 ppbv
RT: 13.507 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:128 Resp: 351148

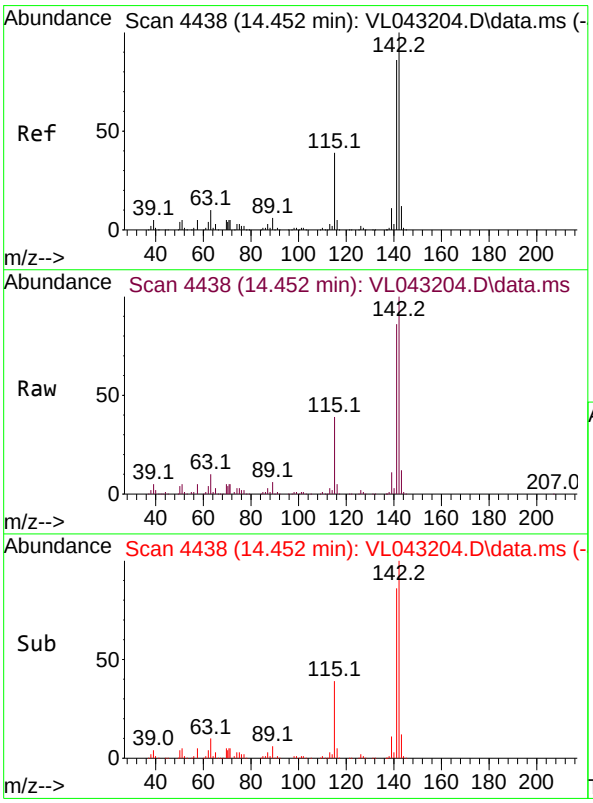
Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.9	14.9
129	10.5	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

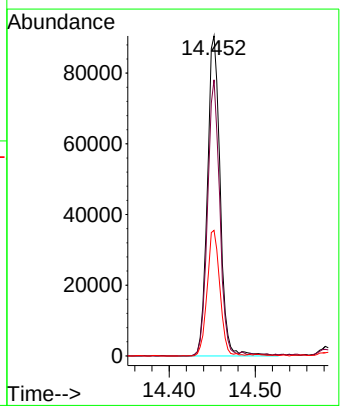
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

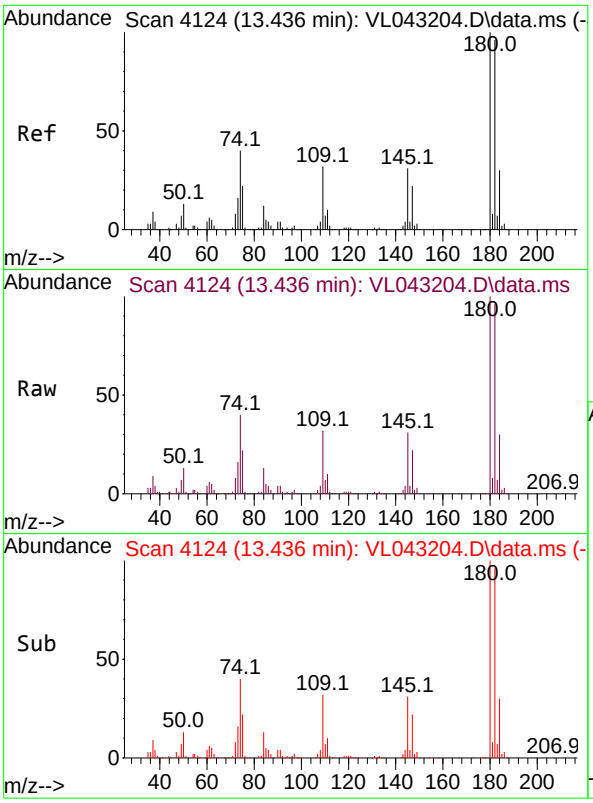


#80
Naphthalene,2-methyl-
Concen: 9.895 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:142 Resp: 93113

Ion	Ratio	Lower	Upper
142	100		
141	83.9	67.1	100.7
115	39.9	31.9	47.9

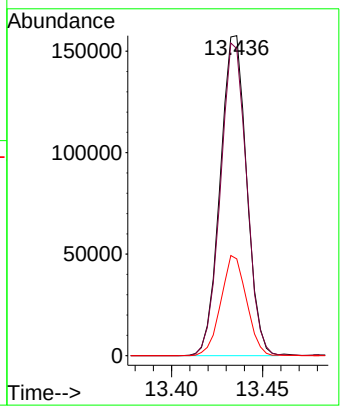




#81
1,2,4-Trichlorobenzene
Concen: 9.923 ppbv
RT: 13.436 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:180 Resp: 159091

Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.4	116.2
184	30.3	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043205.D
Acq On : 18 Nov 2025 10:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:50:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	104644	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	284629	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	230646	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	171009	10.115	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	30881	2.092	ppbv		98
3) Chlorodifluoromethane	1.476	51	30069	2.072	ppbv		98
4) Chloromethane	1.534	50	11890	2.155	ppbv		96
5) Vinyl Chloride	1.580	62	12040	1.995	ppbv		96
6) Bromomethane	1.670	94	5981	2.044	ppbv		99
7) Chloroethane	1.706	64	4943	2.103	ppbv		95
8) Dichlorotetrafluoroethane	1.554	85	26409	2.151	ppbv		98
9) Propene	1.486	41	12993	1.930	ppbv	#	1
10) Heptane	4.972	43	36171m	1.958	ppbv		
11) Trichlorofluoromethane	1.878	101	31124	2.177	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.140	101	23336	2.090	ppbv		100
13) Ethanol	1.722	45	5266	2.430	ppbv		86
14) Bromoethene	1.784	108	9129	2.133	ppbv		95
15) Acetone	1.835	43	31785	2.186	ppbv		91
16) 1,3-Butadiene	1.609	39	13101	2.021	ppbv		89
17) tert-Butyl alcohol	2.039	59	39348	2.062	ppbv		95
18) 1,1-Dichloroethene	2.036	96	10780	2.074	ppbv		94
19) Isopropyl Alcohol	1.887	45	17229	2.097	ppbv	#	71
20) Methylene Chloride	2.062	84	12238	2.248	ppbv		96
21) Allyl Chloride	2.098	41	19580	2.002	ppbv		95
22) trans-1,2-Dichloroethene	2.340	96	12537	2.110	ppbv		94
23) Vinyl Acetate	2.460	43	35205	2.006	ppbv	#	97
24) 1,1-Dichloroethane	2.408	63	24987	2.179	ppbv		99
25) Ethyl Acetate	2.832	43	64343	2.048	ppbv		99
26) Hexane	2.826	57	28776	2.093	ppbv		97
27) Carbon Disulfide	2.149	76	29964	2.135	ppbv	#	91
28) Methyl tert-Butyl Ether	2.438	73	14101	2.090	ppbv	#	85
29) Chloroform	2.849	83	40355	2.065	ppbv		98
30) Cyclohexane	3.855	84	23659	2.053	ppbv		98
31) cis-1,2-Dichloroethene	2.722	61	27663	2.024	ppbv		98
32) 1,1,1-Trichloroethane	3.366	97	42547	2.024	ppbv		99
34) 2-Butanone	2.557	43	41884	2.085	ppbv		99
35) Carbon Tetrachloride	3.765	117	41949	1.942	ppbv		96
36) Benzene	3.654	78	56141m	2.060	ppbv		
37) 1,2-Dichloroethane	3.218	62	32188	2.019	ppbv		100
38) Trichloroethene	4.548	130	21105m	1.975	ppbv		
39) 1,2-Dichloropropane	4.312	63	19913	1.996	ppbv		93
40) 1,4-Dioxane	4.580	88	8829m	1.969	ppbv		
41) Tetrahydrofuran	3.056	42	22912	2.065	ppbv		99
42) Bromodichloromethane	4.490	83	44584	2.027	ppbv		98
43) Methyl Methacrylate	4.875	69	29071	2.009	ppbv		99
44) 2,2,4-Trimethylpentane	4.635	57	92261	1.971	ppbv		96
45) t-1,3-Dichloropropene	6.406	75	27833m	2.064	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043205.D
Acq On : 18 Nov 2025 10:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:50:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	31986	2.020	ppbv		91
47) 1,1,2-Trichloroethane	6.577	97	21542m	2.025	ppbv		
48) Dibromochloromethane	7.386	129	37758m	2.074	ppbv		
49) Bromoform	9.480	173	33057	2.050	ppbv		98
50) 4-Methyl-2-Pentanone	5.745	43	58461	2.066	ppbv		98
51) 2-Hexanone	7.432	43	46444	2.113	ppbv	#	99
52) Tetrachloroethene	8.218	164	19856	1.958	ppbv		96
53) Toluene	6.927	91	65238	2.008	ppbv		97
54) 1,2-Dibromoethane	7.648	107	31266	2.007	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.920	131	35099	2.071	ppbv		99
57) Chlorobenzene	8.917	112	50228	2.121	ppbv		97
58) Ethyl Benzene	9.351	91	92649	2.087	ppbv		98
59) m/p-Xylene	9.529	91	148300m	4.151	ppbv		
60) o-Xylene	9.959	91	76540	2.153	ppbv		100
61) Styrene	9.866	104	33188	2.133	ppbv		98
62) Isopropylbenzene	10.536	105	135853	2.136	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.963	83	47439	2.102	ppbv		99
64) n-propylbenzene	10.985	120	34915	2.136	ppbv		99
65) tert-Butylbenzene	11.529	119	122064	2.149	ppbv		99
66) Benzyl Chloride	11.610	91	11870	2.059	ppbv		99
67) sec-Butylbenzene	11.765	105	170529	2.151	ppbv		100
69) p-Isopropyltoluene	11.921	119	147482	2.195	ppbv		98
70) n-Butylbenzene	12.280	91	144148	2.212	ppbv		99
71) 2-Chlorotoluene	10.898	91	101951	2.085	ppbv		100
72) 4-Ethyltoluene	11.121	105	92654	2.140	ppbv		99
73) 1,3,5-Trimethylbenzene	11.202	105	76655	2.110	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	86286	2.176	ppbv		98
75) 1,3-Dichlorobenzene	11.604	146	48961	2.116	ppbv		98
76) 1,4-Dichlorobenzene	11.668	146	48881	2.112	ppbv		98
77) 1,2-Dichlorobenzene	11.944	146	48431	2.177	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	42456	2.287	ppbv		99
79) Naphthalene	13.510	128	85788	2.436	ppbv		97
80) Naphthalene,2-methyl-	14.458	142	20685	2.237	ppbv		98
81) 1,2,4-Trichlorobenzene	13.439	180	37521	2.382	ppbv		99

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

Quantitation Report (QT Reviewed)

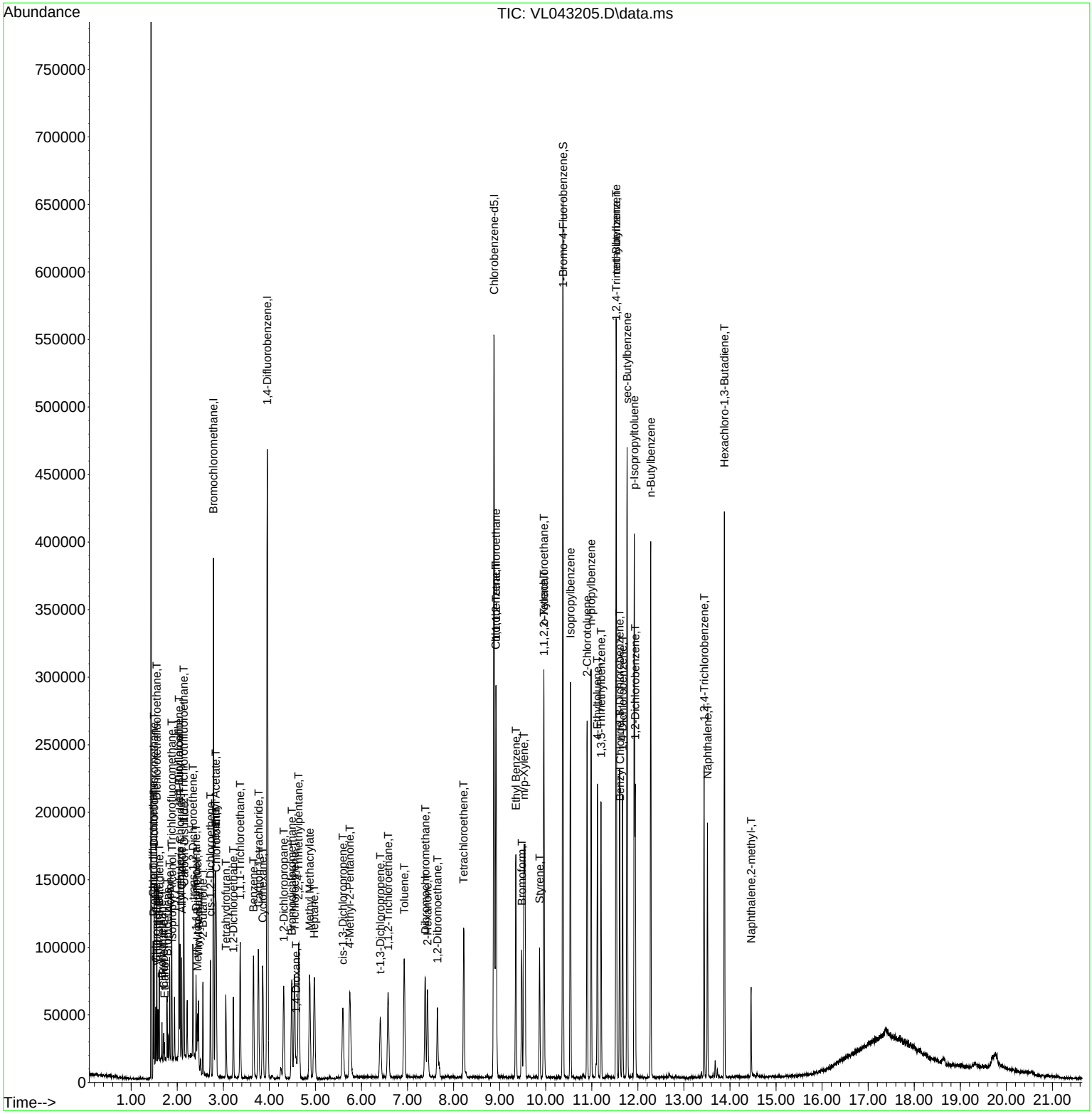
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043205.D
Acq On : 18 Nov 2025 10:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

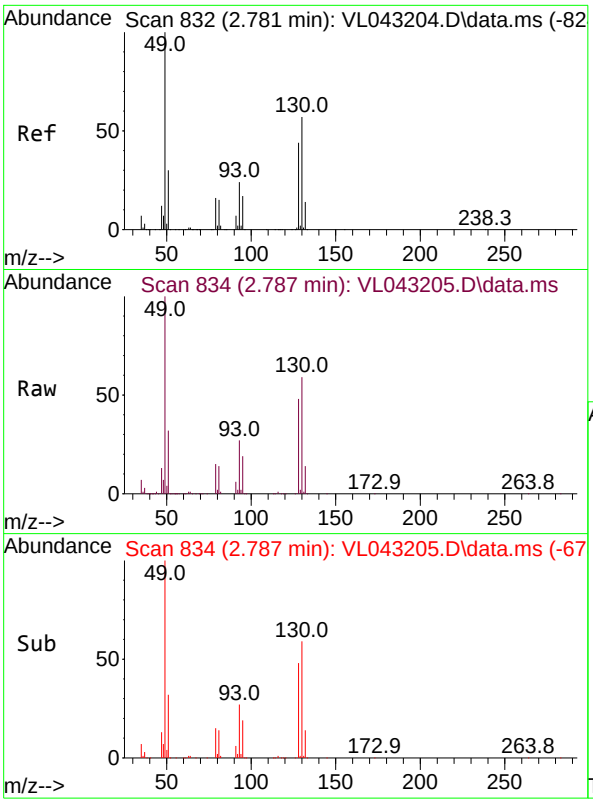
Quant Time: Nov 19 00:50:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

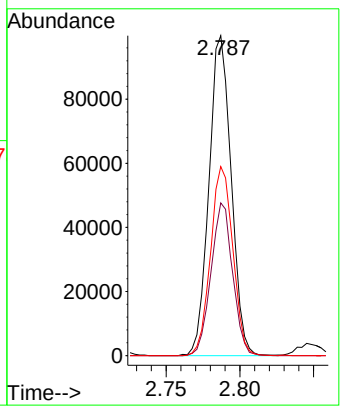




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 49 Resp: 10464

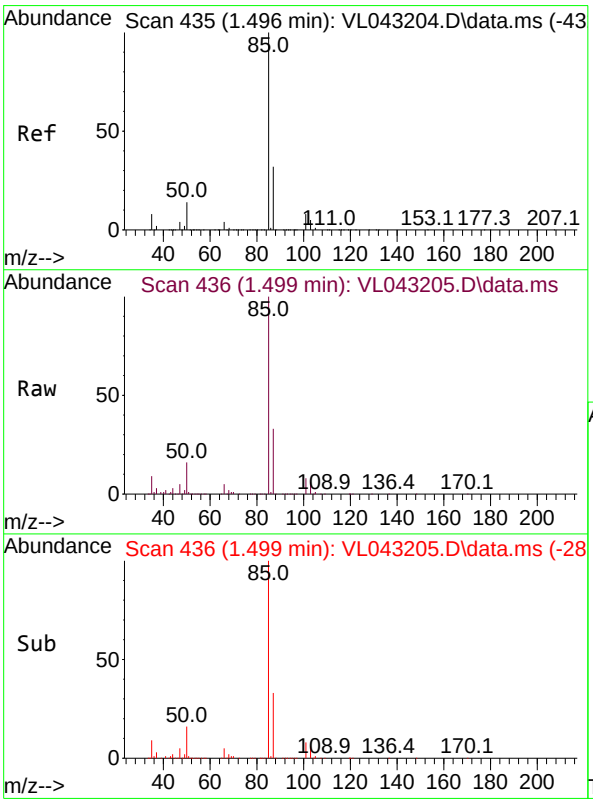
Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.0	69.0
130	59.1	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

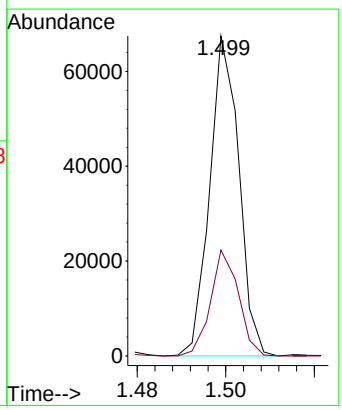
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

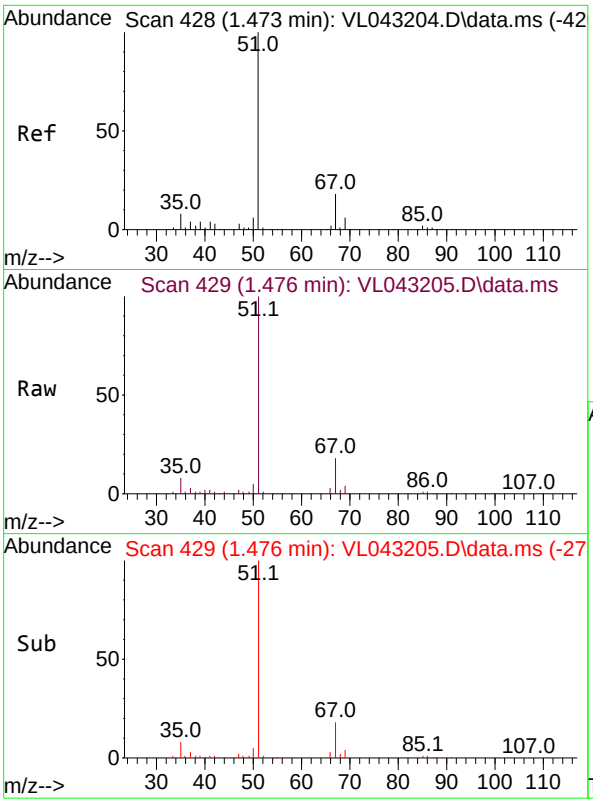


#2
Dichlorodifluoromethane
Concen: 2.092 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 85 Resp: 30881

Ion	Ratio	Lower	Upper
85	100		
87	33.1	25.4	38.2

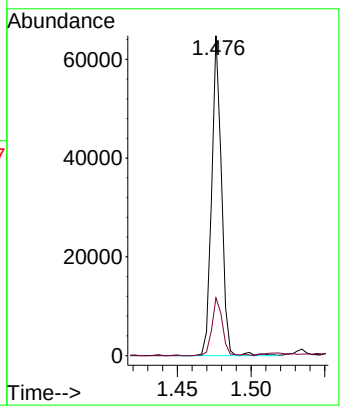




#3
Chlorodifluoromethane
Concen: 2.072 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 51 Resp: 3006

Ion	Ratio	Lower	Upper
51	100		
67	19.4	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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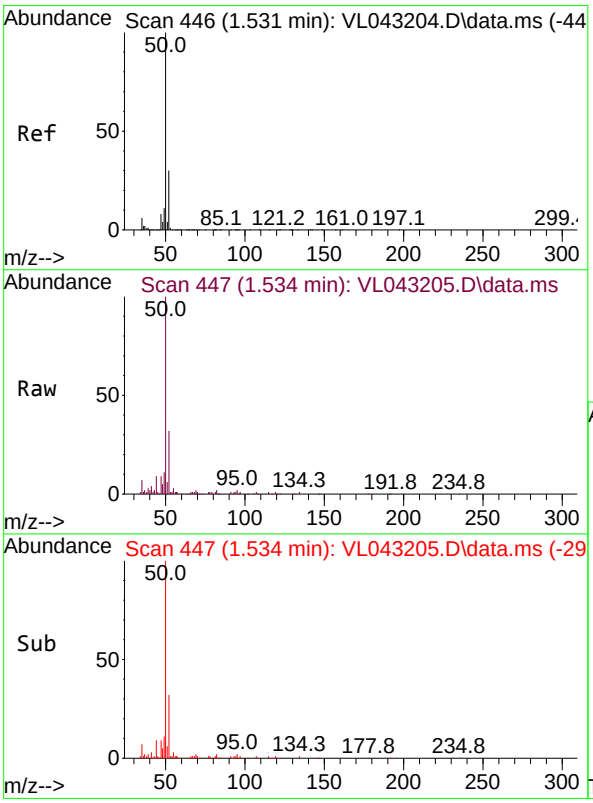
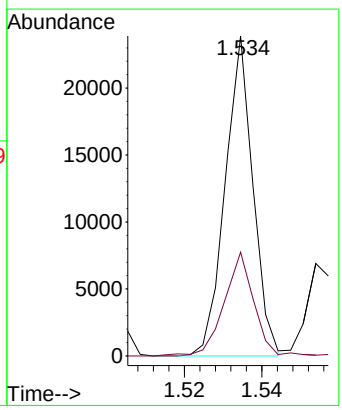
Supervised By :Mahesh Dadoda 11/19/2025

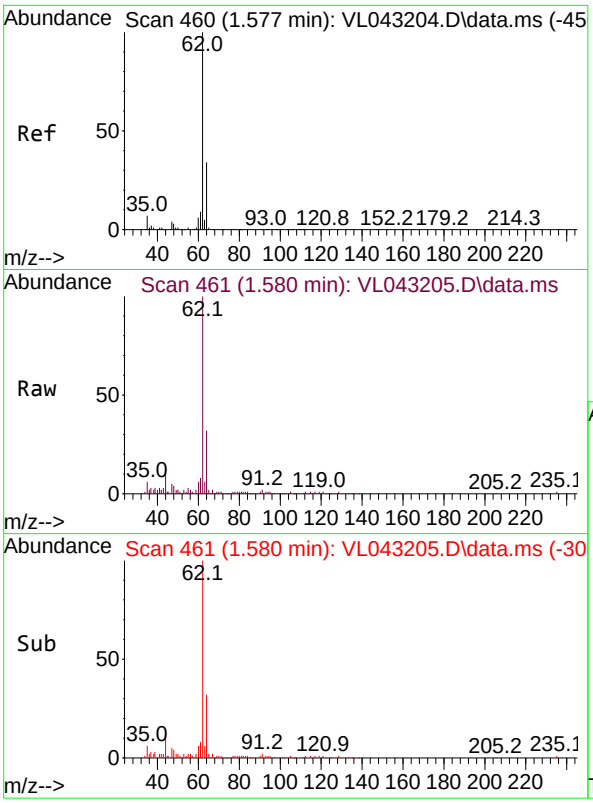


#4
Chloromethane
Concen: 2.155 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 50 Resp: 11890

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.1	36.1

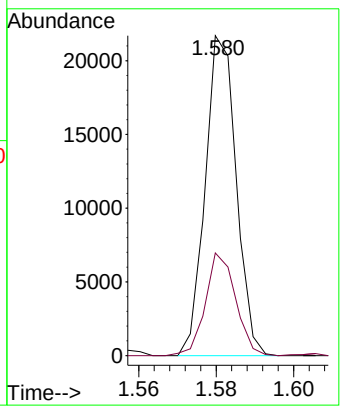




#5
Vinyl Chloride
Concen: 1.995 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 62 Resp: 1204

Ion	Ratio	Lower	Upper
62	100		
64	32.1	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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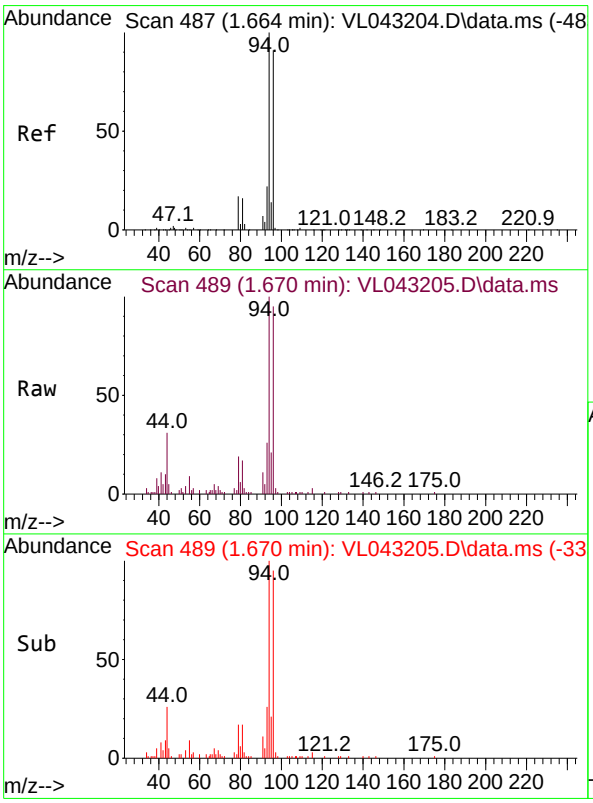
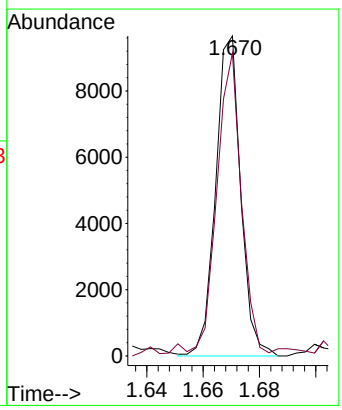
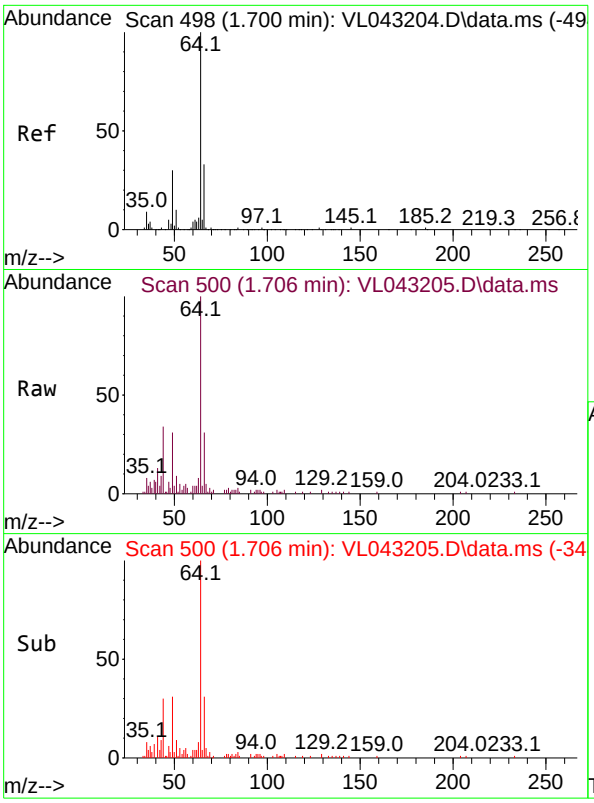


#6
Bromomethane
Concen: 2.044 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 94 Resp: 5981

Ion	Ratio	Lower	Upper
94	100		
96	92.4	72.9	109.3

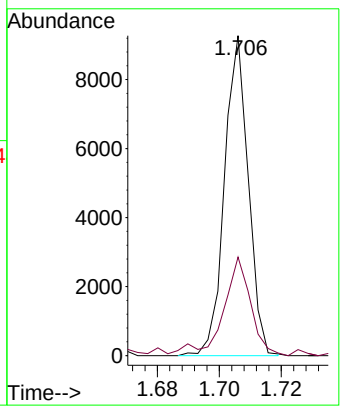




#7
Chloroethane
Concen: 2.103 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 64 Resp: 494

Ion	Ratio	Lower	Upper
64	100		
66	30.8	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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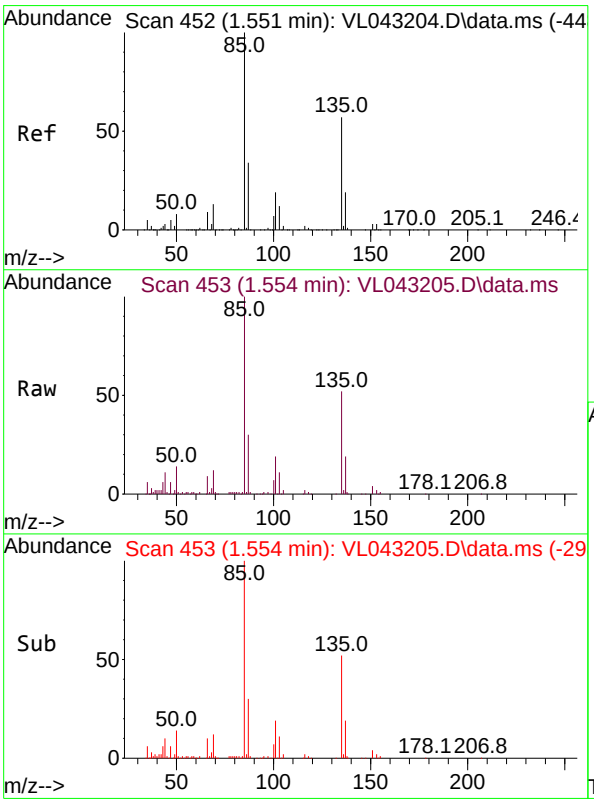
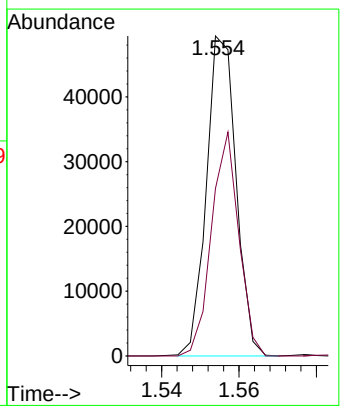
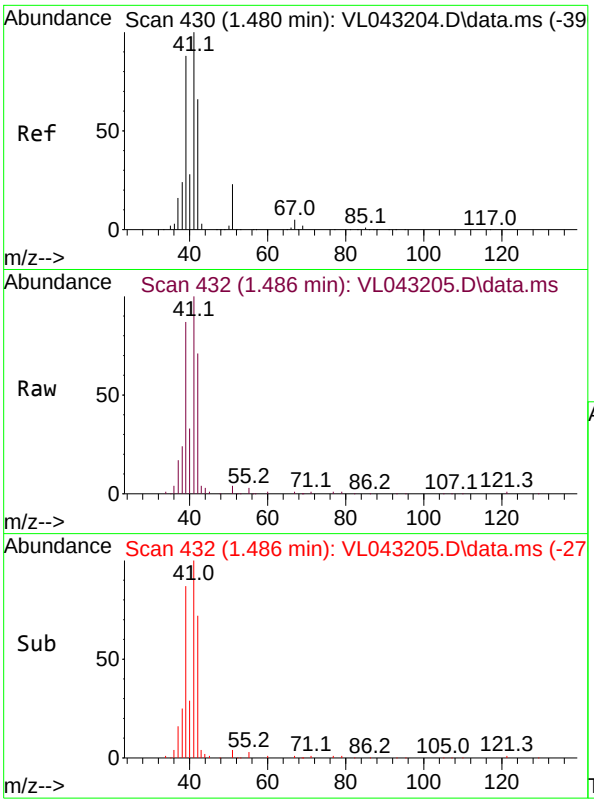


#8
Dichlorotetrafluoroethane
Concen: 2.151 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 85 Resp: 26409

Ion	Ratio	Lower	Upper
85	100		
135	64.3	52.6	79.0

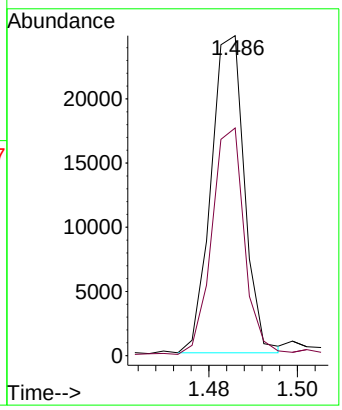




#9
Propene
Concen: 1.930 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 41 Resp: 1299

Ion	Ratio	Lower	Upper
41	100		
42	75.1	3.7	5.5#



Instrument :
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ClientSampleId :
VSTDICC002

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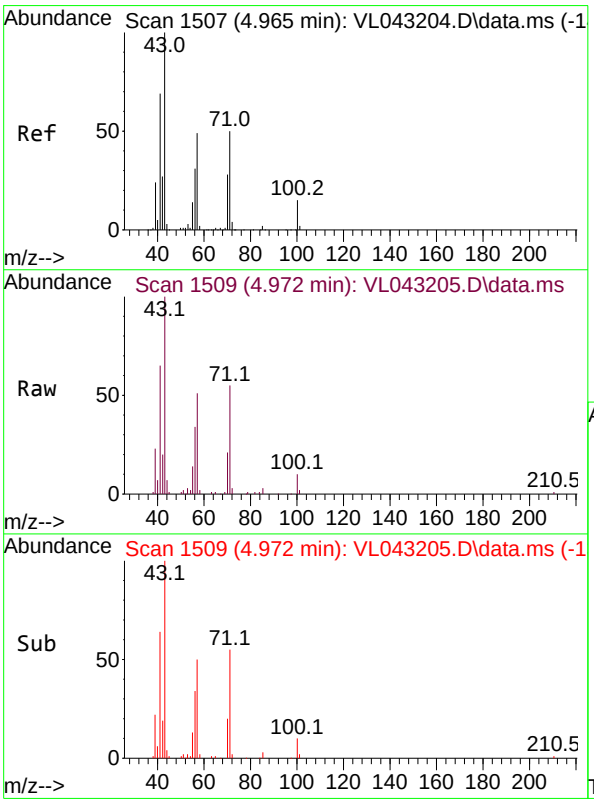
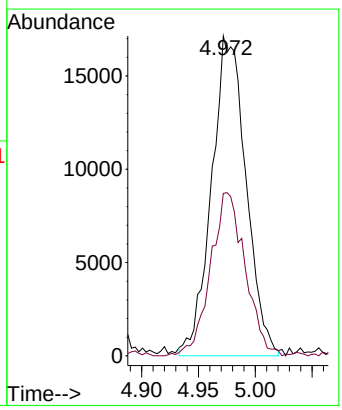
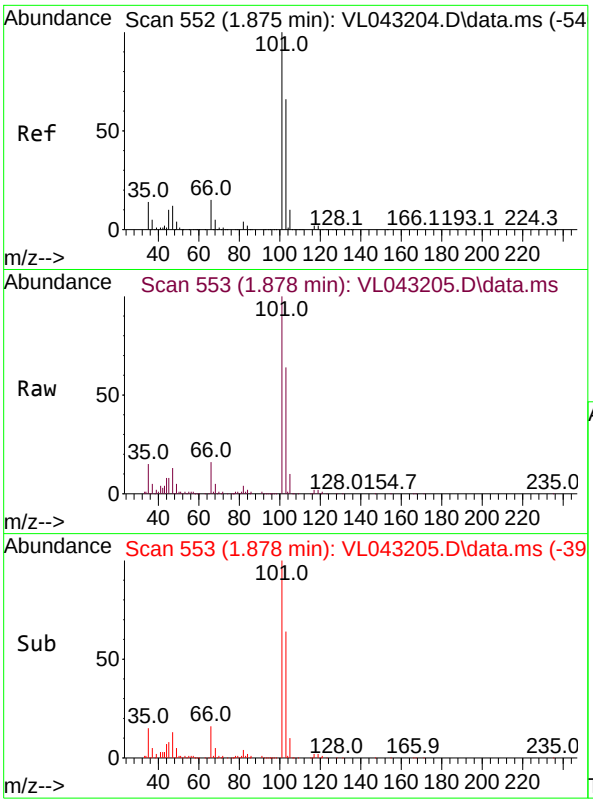


#10
Heptane
Concen: 1.958 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 36171

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#

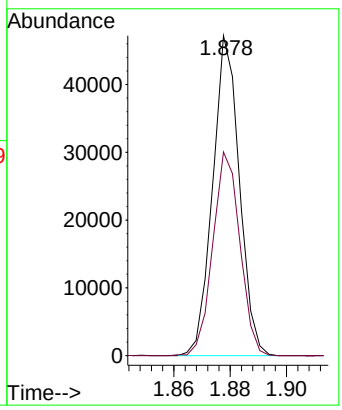




#11
Trichlorofluoromethane
Concen: 2.177 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:101 Resp: 3112

Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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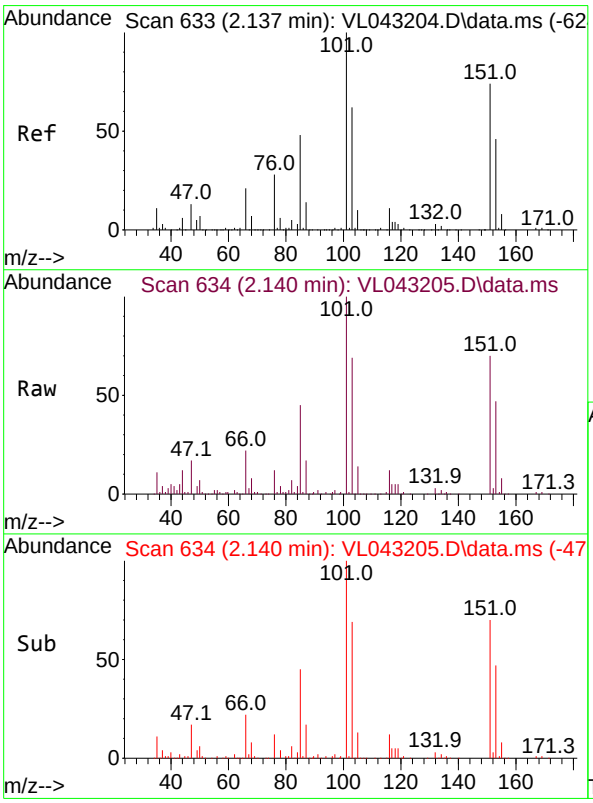
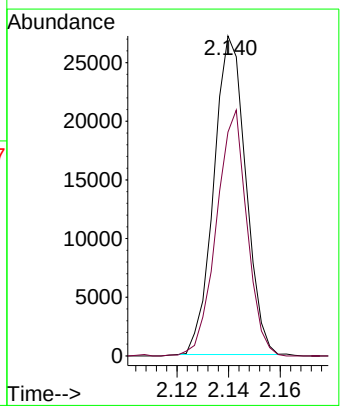
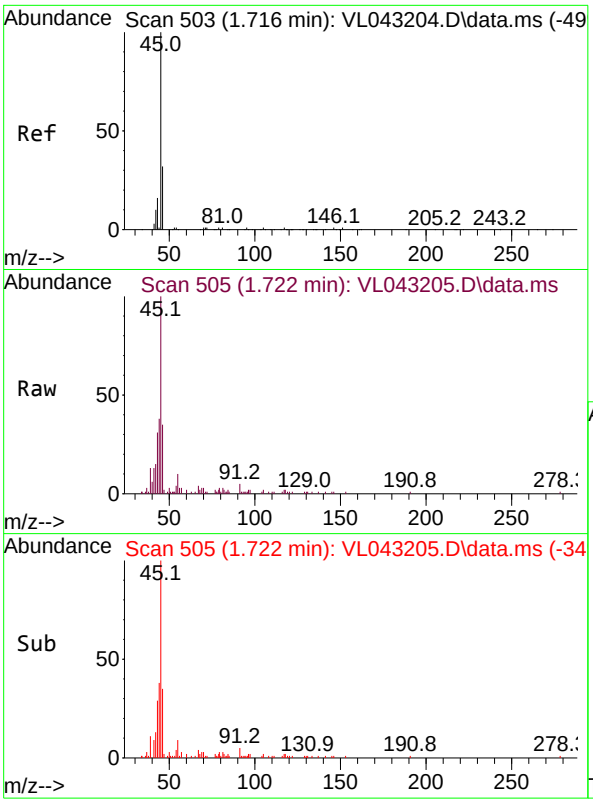


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.090 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:101 Resp: 23336

Ion	Ratio	Lower	Upper
101	100		
151	73.8	59.2	88.8

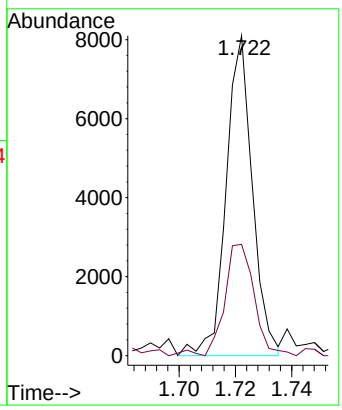




#13
Ethanol
Concen: 2.430 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 45 Resp: 526

Ion	Ratio	Lower	Upper
45	100		
46	45.7	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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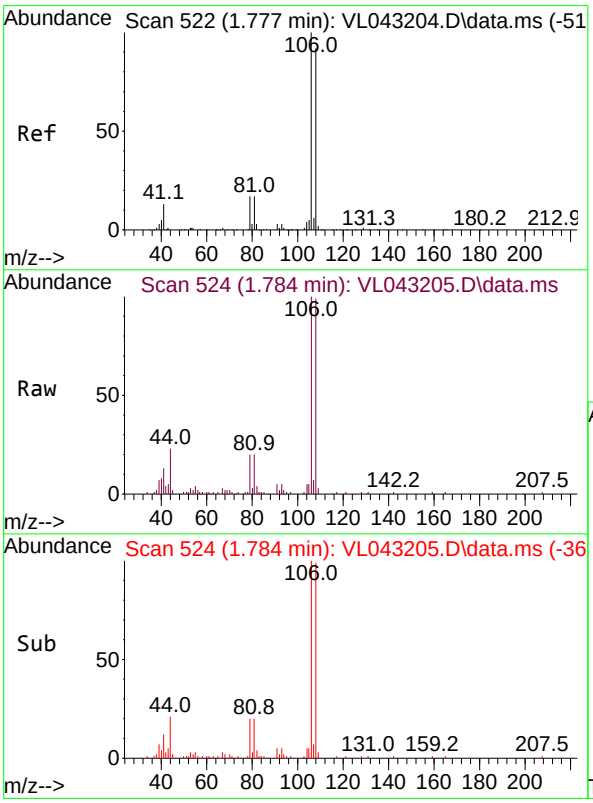
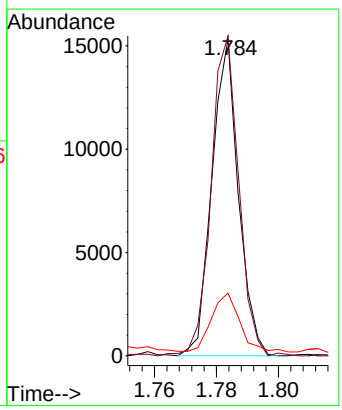
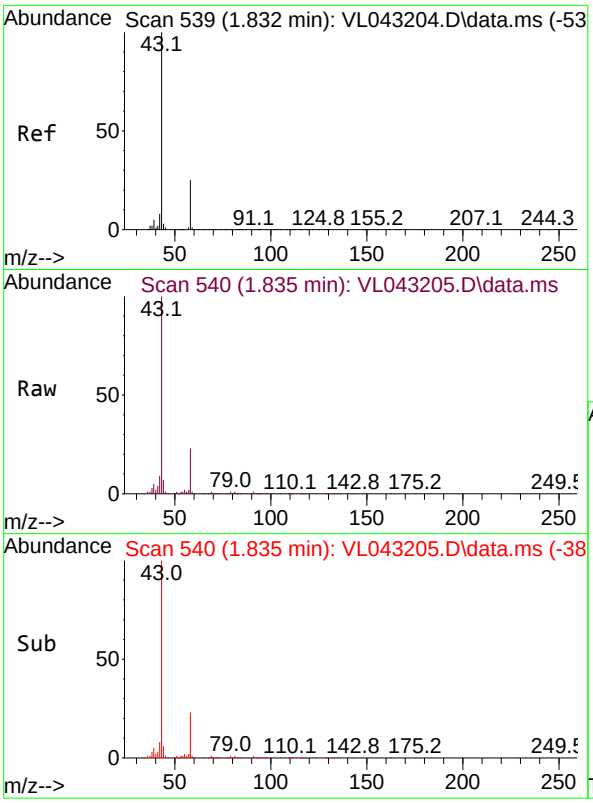


#14
Bromoethene
Concen: 2.133 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:108 Resp: 9129

Ion	Ratio	Lower	Upper
108	100		
106	106.6	88.9	133.3
79	24.3	16.5	24.7

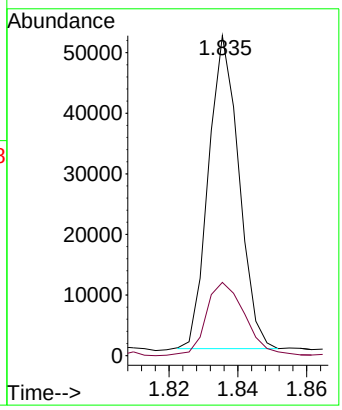




#15
Acetone
Concen: 2.186 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 3178

Ion	Ratio	Lower	Upper
43	100		
58	30.6	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
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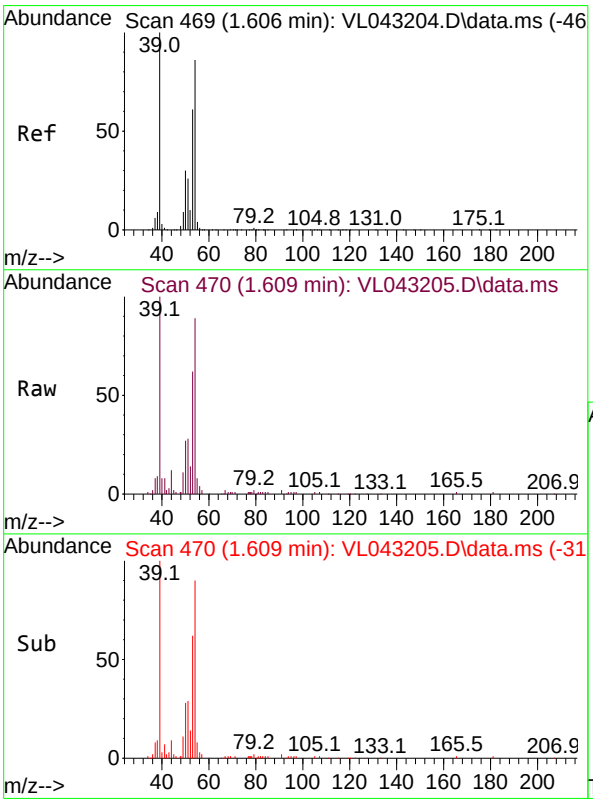
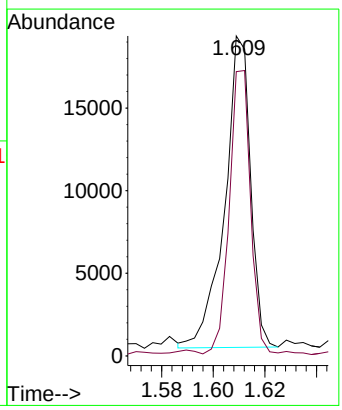
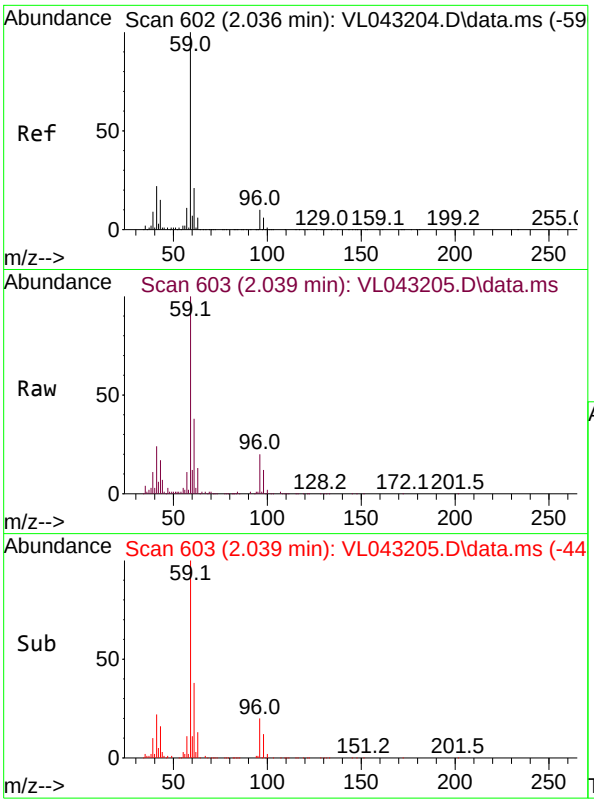


#16
1,3-Butadiene
Concen: 2.021 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 39 Resp: 13101

Ion	Ratio	Lower	Upper
39	100		
54	83.3	59.4	89.2

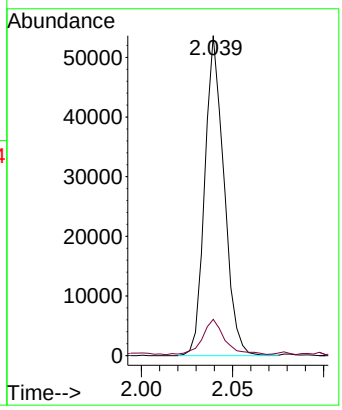




#17
tert-Butyl alcohol
Concen: 2.062 ppbv
RT: 2.039 min Scan# 6(
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 59 Resp: 3934(

Ion	Ratio	Lower	Upper
59	100		
57	13.3	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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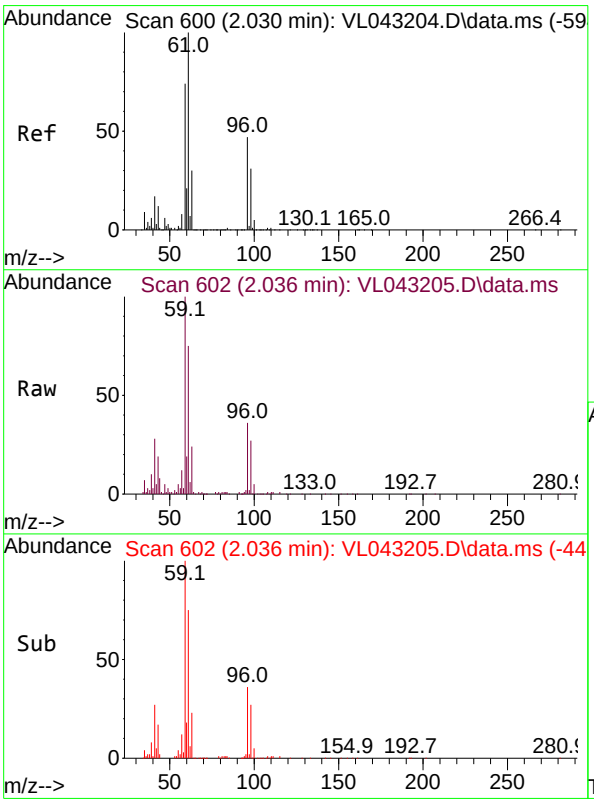
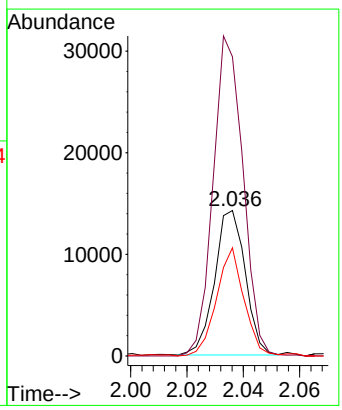
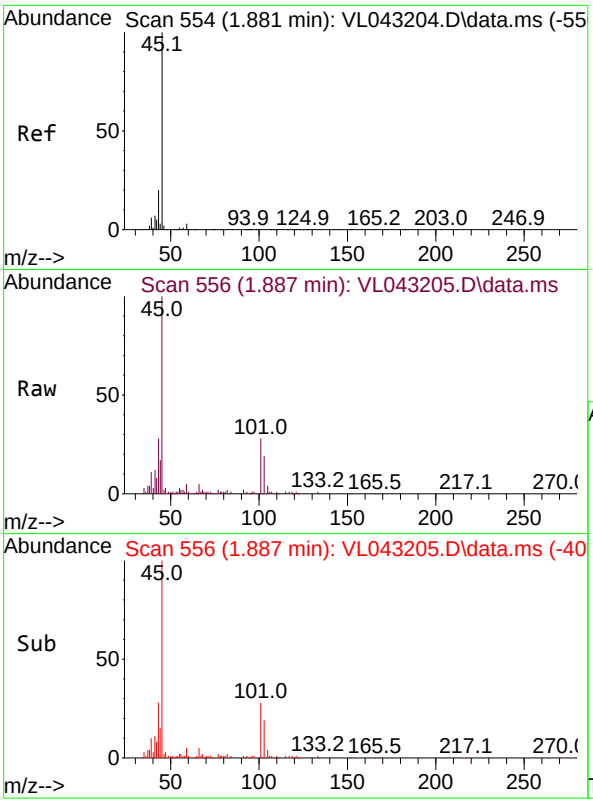


#18
1,1-Dichloroethene
Concen: 2.074 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 96 Resp: 10780

Ion	Ratio	Lower	Upper
96	100		
61	207.0	170.6	255.8
98	74.8	52.2	78.4

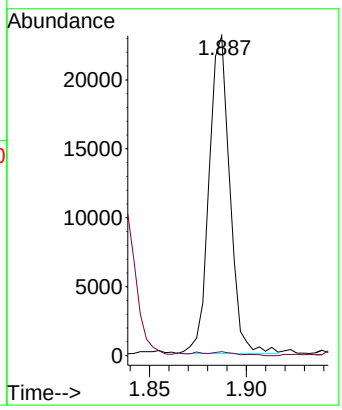




#19
Isopropyl Alcohol
Concen: 2.097 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 45 Resp: 1722

Ion	Ratio	Lower	Upper
45	100		
58	56.6	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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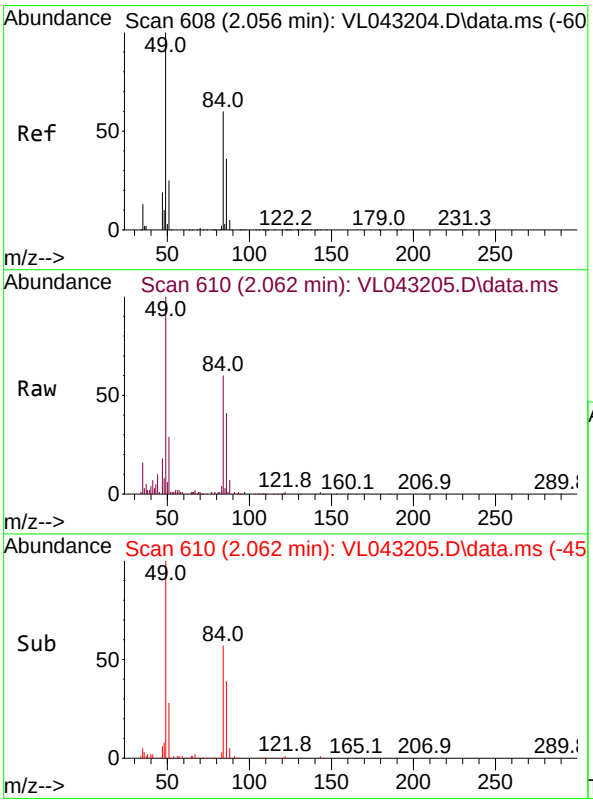
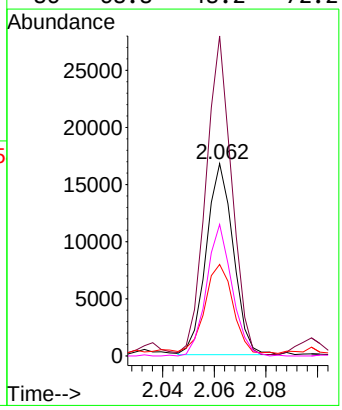
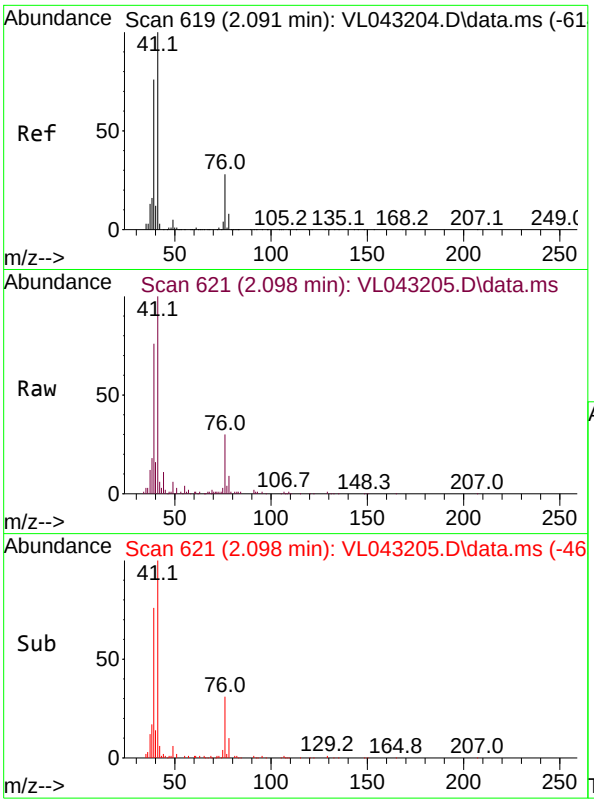


#20
Methylene Chloride
Concen: 2.248 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 84 Resp: 12238

Ion	Ratio	Lower	Upper
84	100		
49	166.8	132.9	199.3
51	46.5	34.8	52.2
86	68.8	48.2	72.2

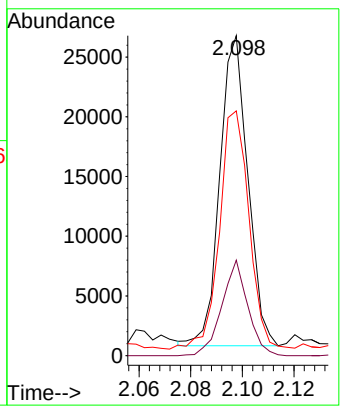




#21
Allyl Chloride
Concen: 2.002 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 41 Resp: 1958

Ion	Ratio	Lower	Upper
41	100		
76	28.6	22.1	33.1
39	81.8	61.0	91.4



Instrument :
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ClientSampleId :
VSTDICC002

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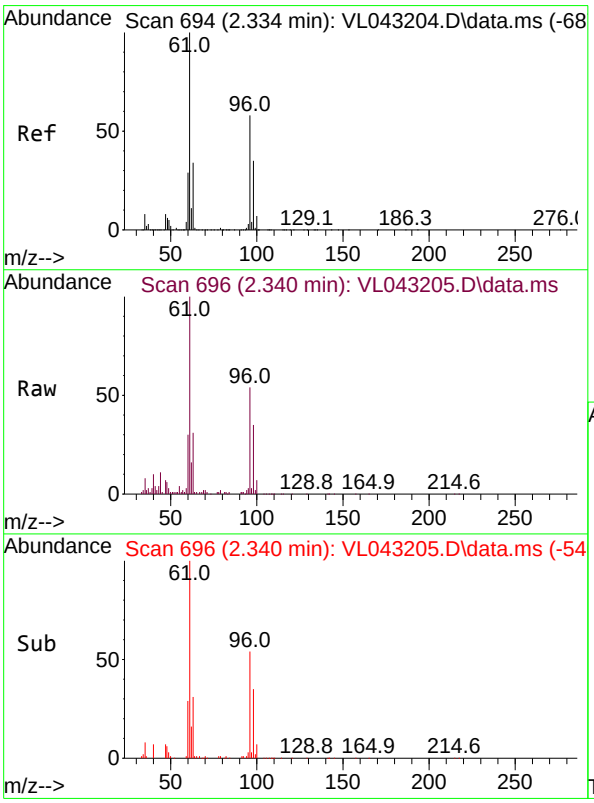
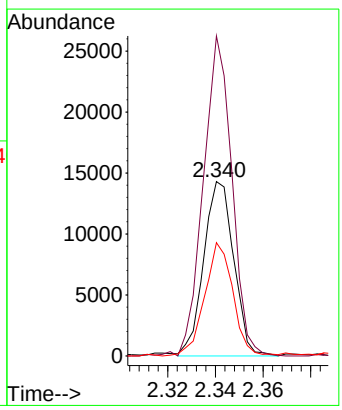
Supervised By :Mahesh Dadoda 11/19/2025

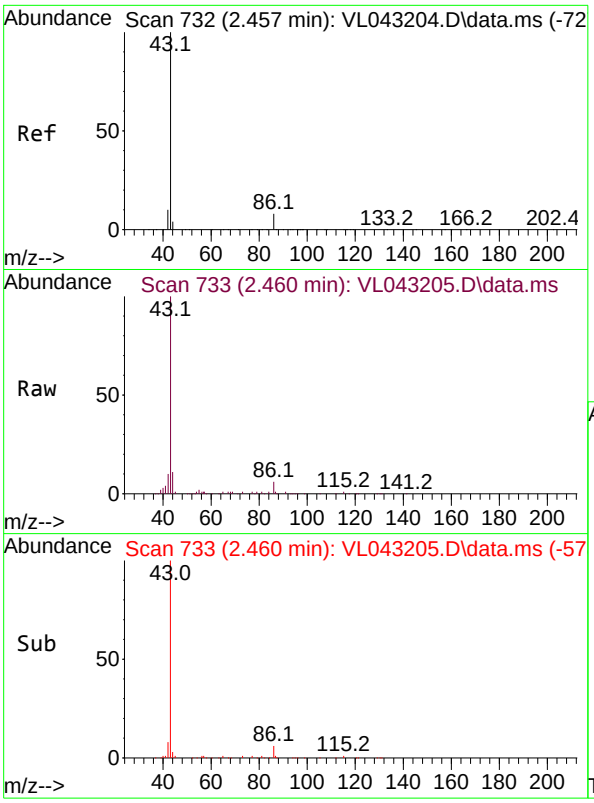


#22
trans-1,2-Dichloroethene
Concen: 2.110 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 96 Resp: 12537

Ion	Ratio	Lower	Upper
96	100		
61	183.6	139.0	208.6
98	64.3	49.4	74.2

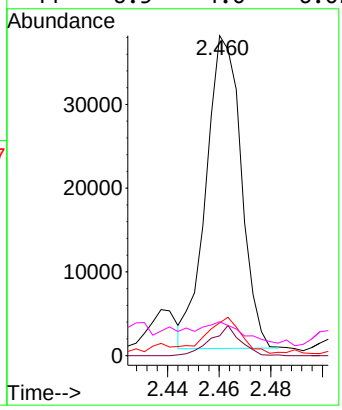




#23
Vinyl Acetate
Concen: 2.006 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 3520

Ion	Ratio	Lower	Upper
43	100		
86	6.8	6.2	9.2
42	9.5	8.0	12.0
44	6.5	4.0	6.0#



Instrument :
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ClientSampleId :
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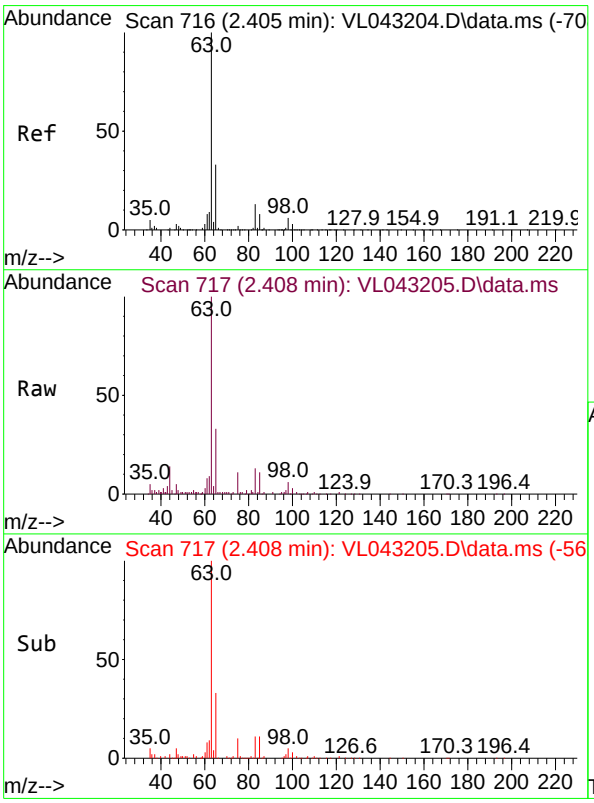
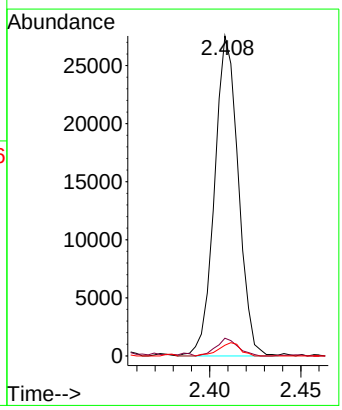
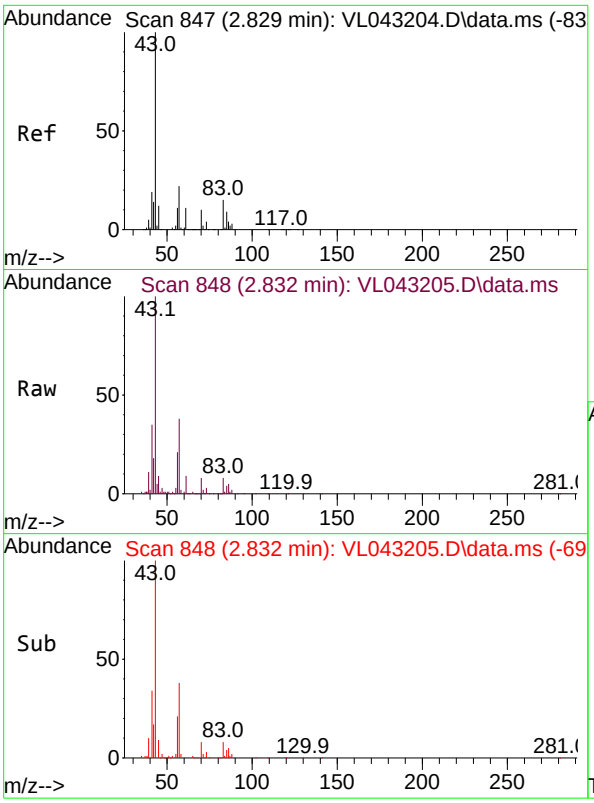


#24
1,1-Dichloroethane
Concen: 2.179 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 63 Resp: 24987

Ion	Ratio	Lower	Upper
63	100		
98	5.3	2.8	8.4
100	3.3	1.3	3.9

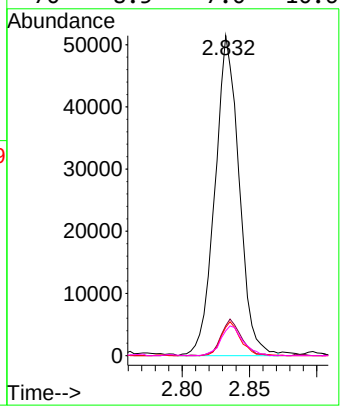




#25
Ethyl Acetate
Concen: 2.048 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 6434

Ion	Ratio	Lower	Upper
43	100		
45	9.6	8.1	12.1
61	8.5	7.0	10.4
70	8.5	7.0	10.6



Instrument :
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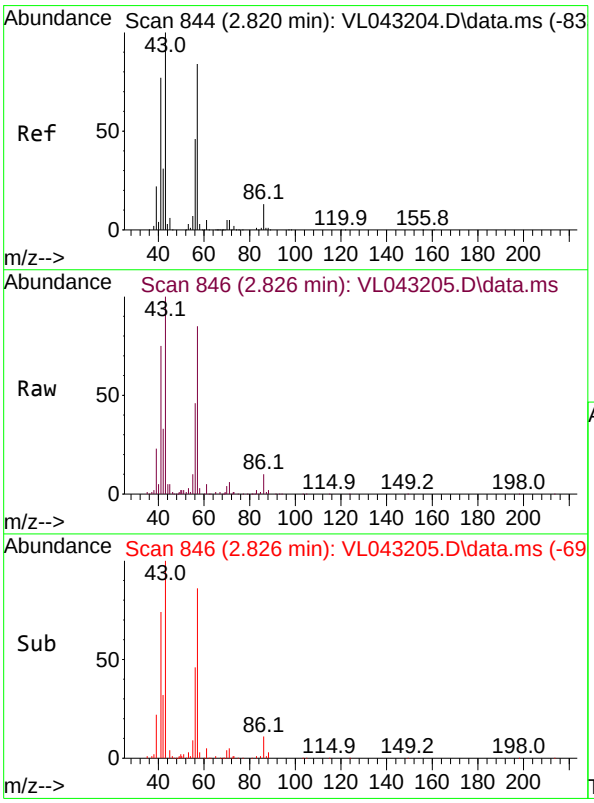
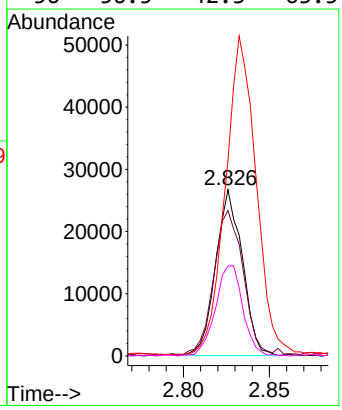
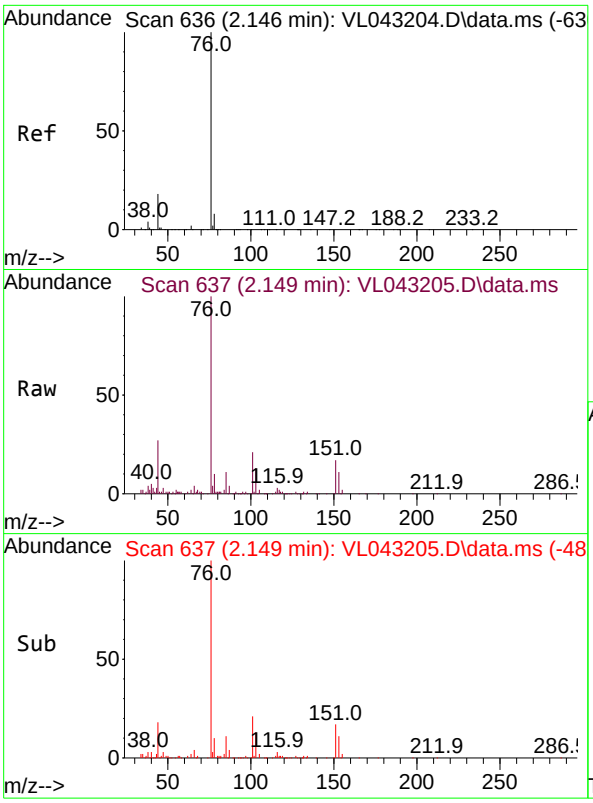


#26
Hexane
Concen: 2.093 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 57 Resp: 28776

Ion	Ratio	Lower	Upper
57	100		
41	96.3	74.6	111.8
43	221.0	179.0	268.4
56	56.5	42.3	63.5

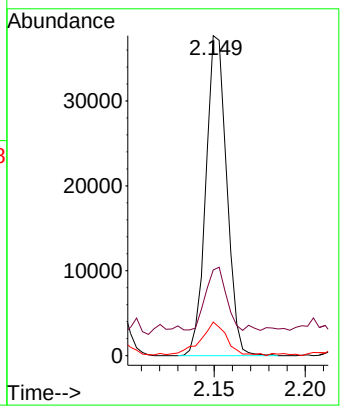




#27
Carbon Disulfide
Concen: 2.135 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 76 Resp: 2996

Ion	Ratio	Lower	Upper
76	100		
44	26.0	16.1	24.1#
78	13.5	9.6	14.4



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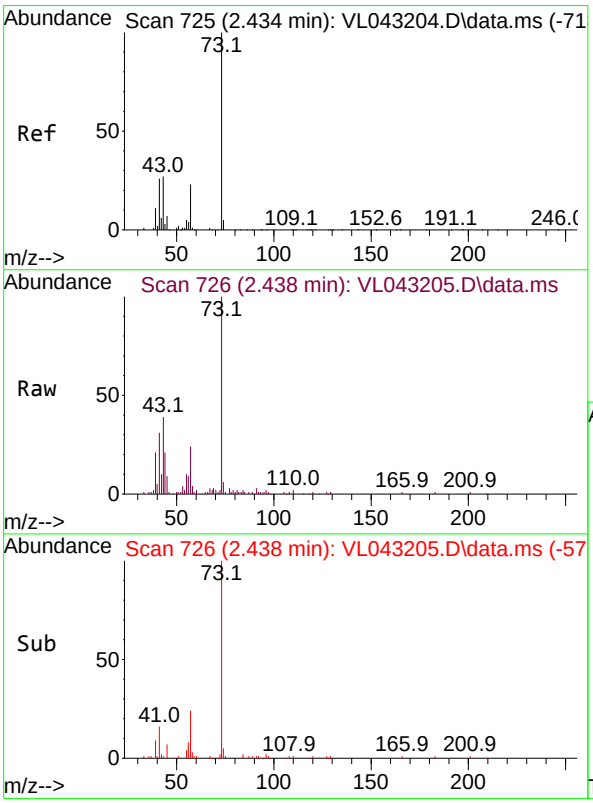
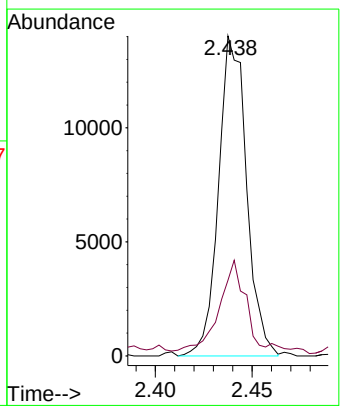
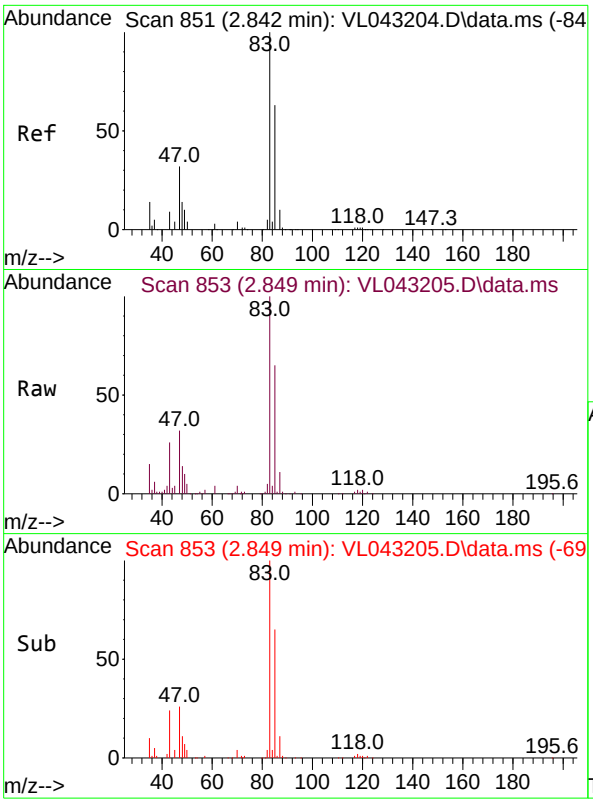


#28
Methyl tert-Butyl Ether
Concen: 2.090 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 73 Resp: 14101

Ion	Ratio	Lower	Upper
73	100		
57	32.5	19.8	29.8#

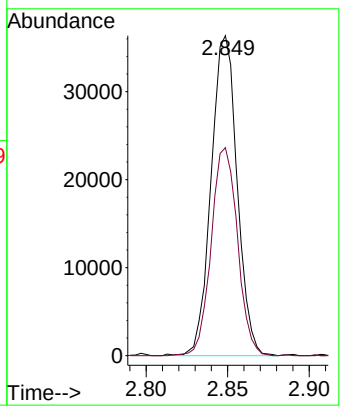




#29
Chloroform
Concen: 2.065 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 83 Resp: 4035

Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.5	75.7



Instrument :
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ClientSampleId :
VSTDICC002

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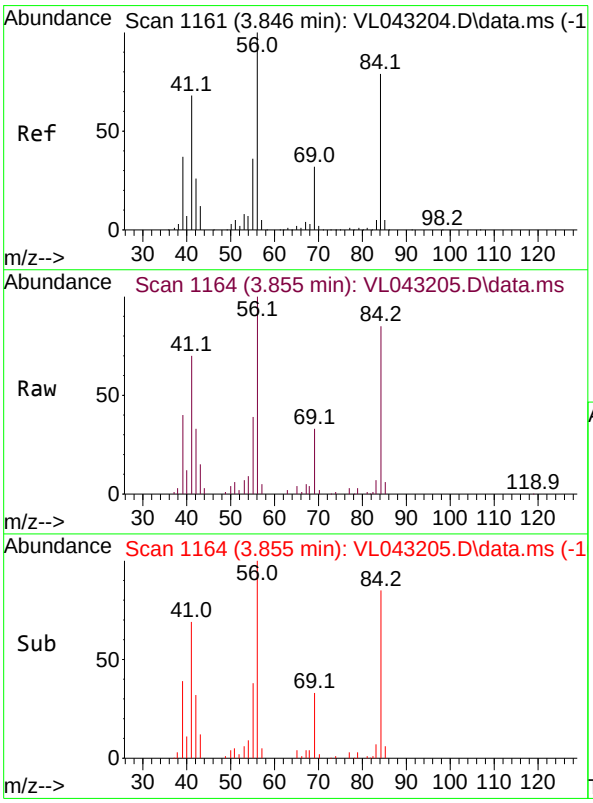
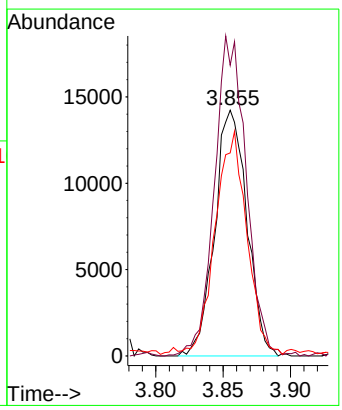
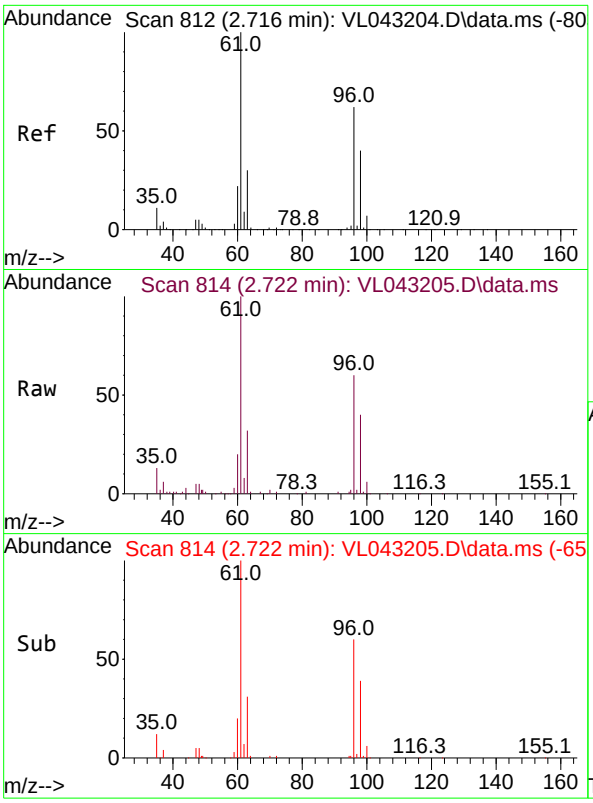


#30
Cyclohexane
Concen: 2.053 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 84 Resp: 23659

Ion	Ratio	Lower	Upper
84	100		
56	129.3	104.7	157.1
41	89.8	69.0	103.6

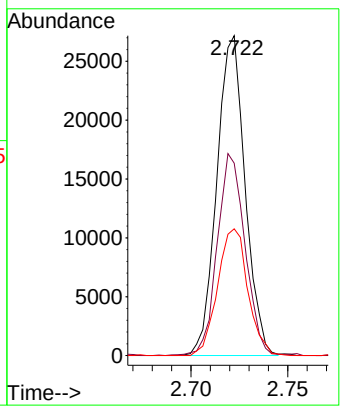




#31
cis-1,2-Dichloroethene
Concen: 2.024 ppbv
RT: 2.722 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 61 Resp: 2766

Ion	Ratio	Lower	Upper
61	100		
96	59.9	49.3	73.9
98	39.6	32.1	48.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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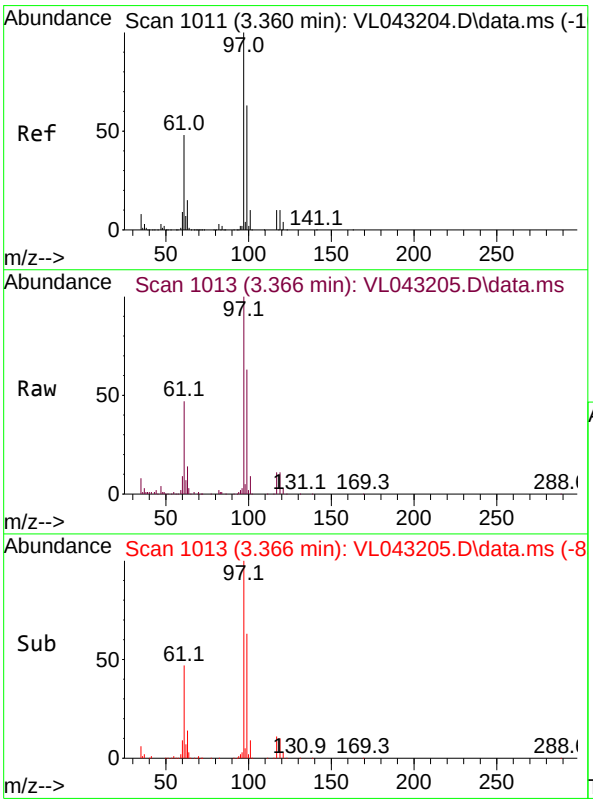
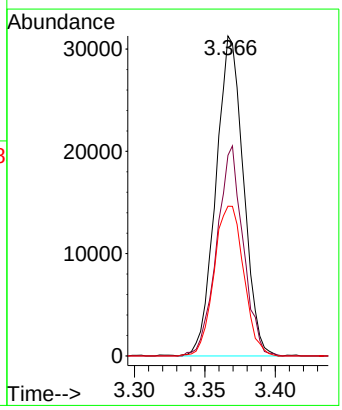
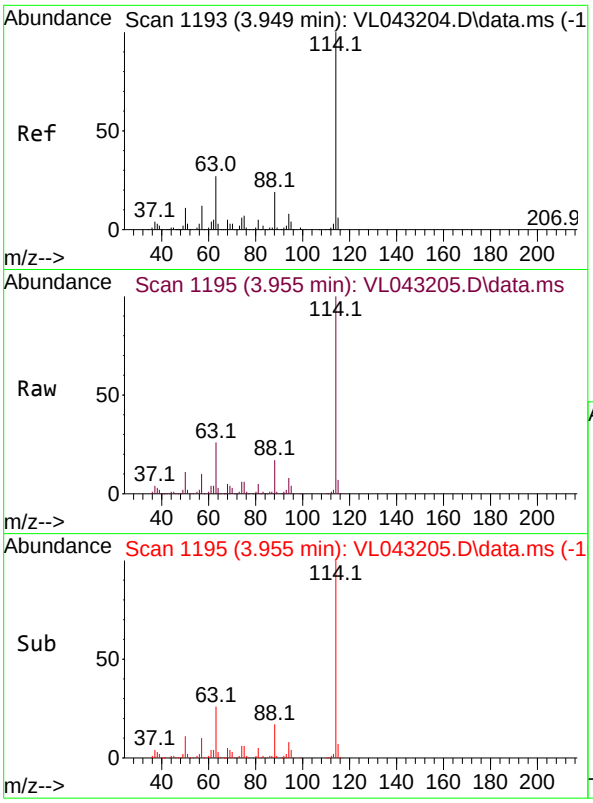


#32
1,1,1-Trichloroethane
Concen: 2.024 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 97 Resp: 42547

Ion	Ratio	Lower	Upper
97	100		
99	62.8	50.3	75.5
61	50.4	38.9	58.3

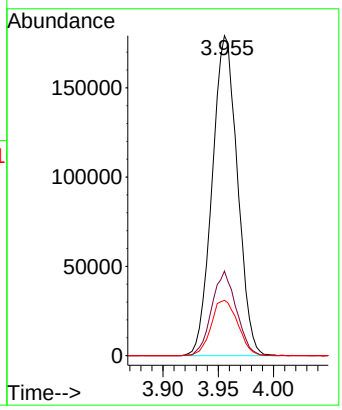




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:114 Resp: 28462

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.2	14.9	22.3



Instrument :
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ClientSampleId :
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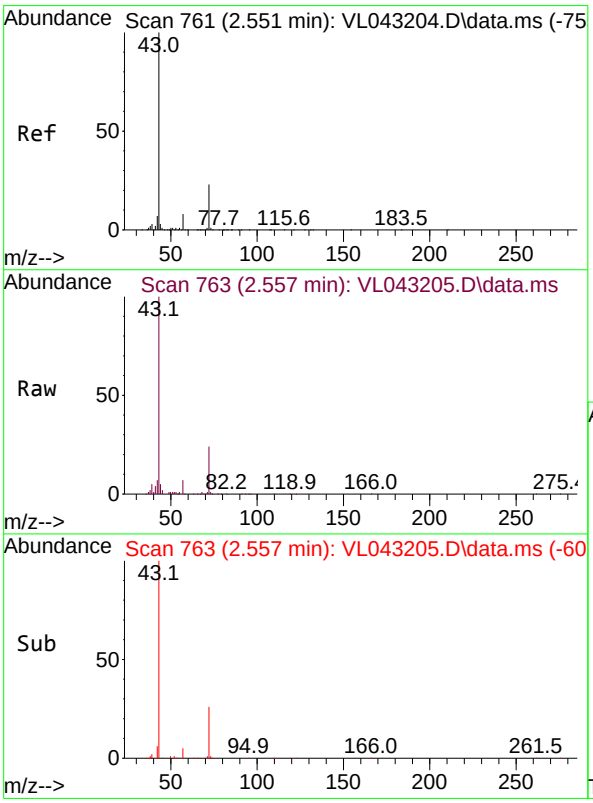
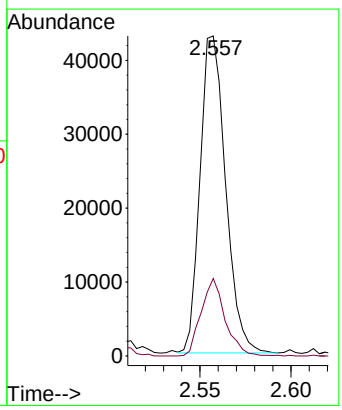
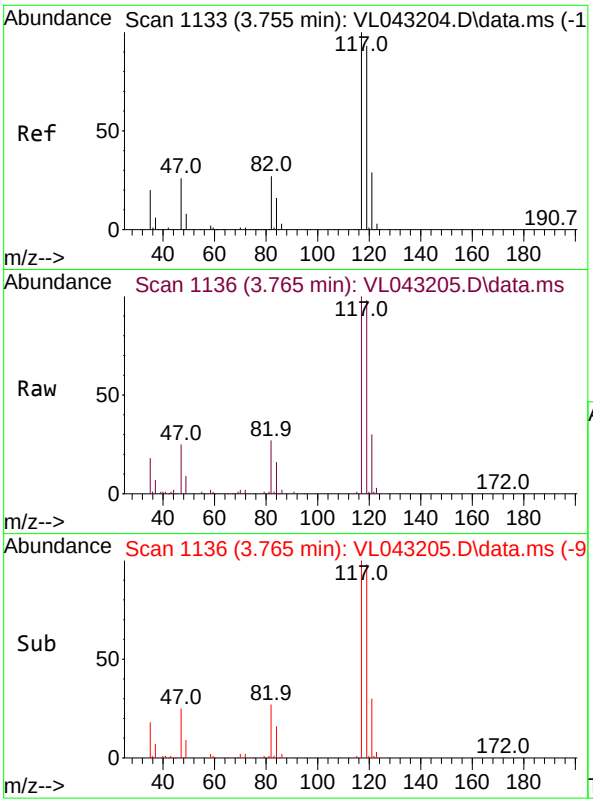


#34
2-Butanone
Concen: 2.085 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 41884

Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.1	27.1

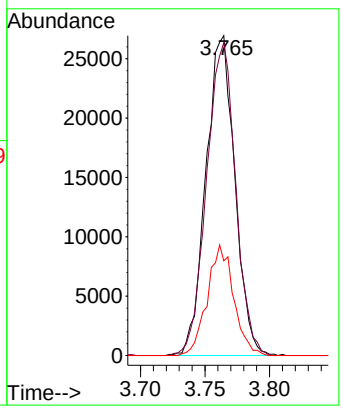




#35
Carbon Tetrachloride
Concen: 1.942 ppbv
RT: 3.765 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:117 Resp: 4194

Ion	Ratio	Lower	Upper
117	100		
119	97.8	74.6	112.0
121	29.6	23.2	34.8



Instrument :
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ClientSampleId :
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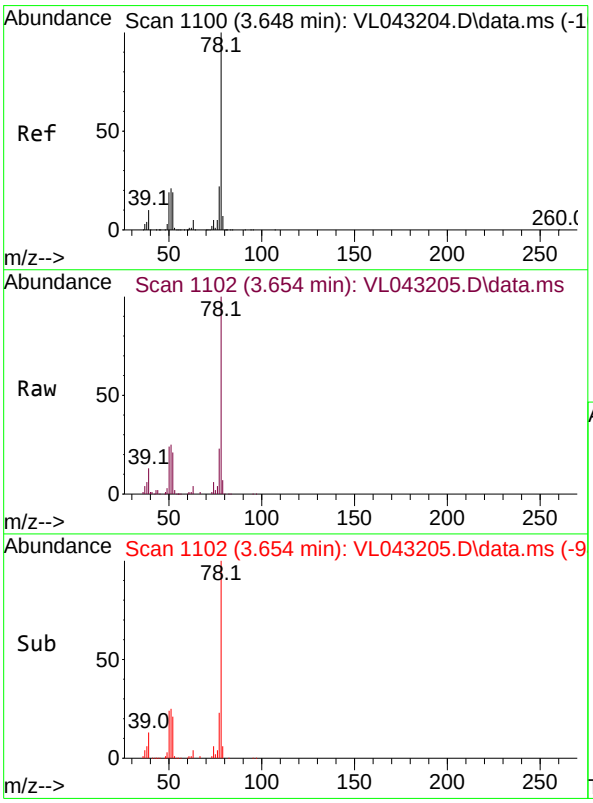
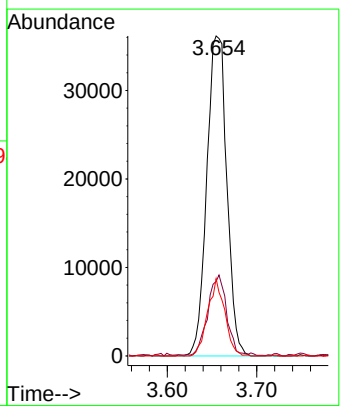
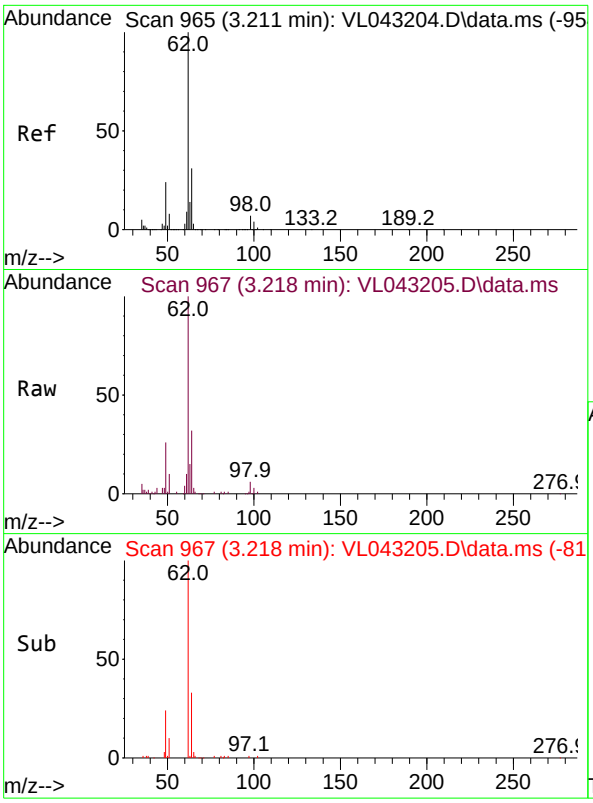


#36
Benzene
Concen: 2.060 ppbv m
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 78 Resp: 56141

Ion	Ratio	Lower	Upper
78	100		
77	23.3	17.5	26.3
50	24.1	15.5	23.3#

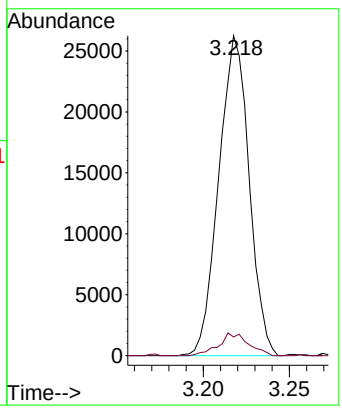




#37
1,2-Dichloroethane
Concen: 2.019 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 62 Resp: 3218

Ion	Ratio	Lower	Upper
62	100		
98	7.0	5.5	8.3



Instrument :
MSVOA_L
ClientSampleId :
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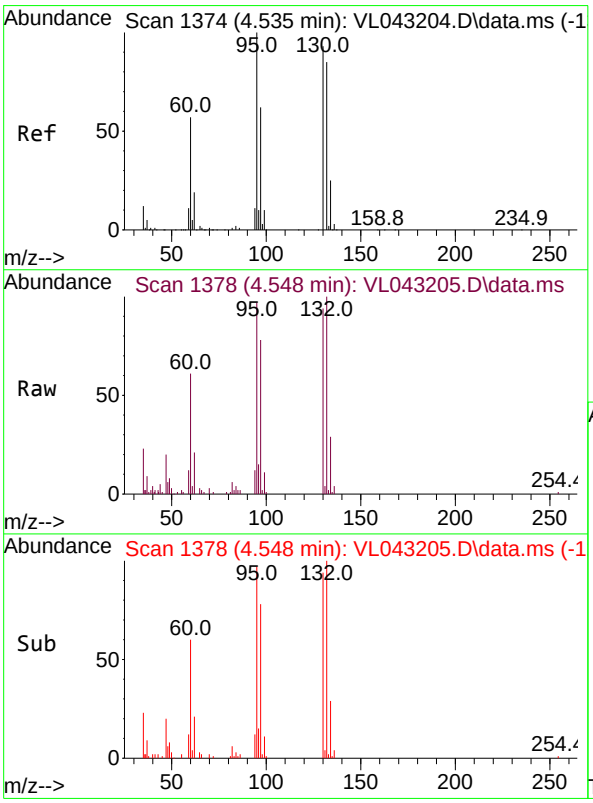
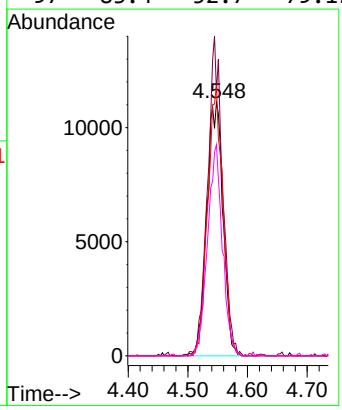
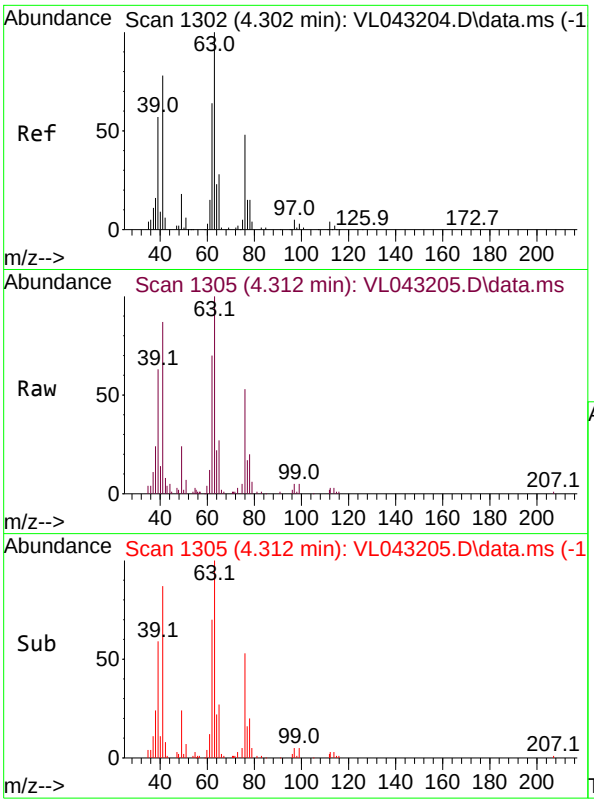


#38
Trichloroethene
Concen: 1.975 ppbv m
RT: 4.548 min Scan# 1378
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:130 Resp: 21105

Ion	Ratio	Lower	Upper
130	100		
95	104.0	85.7	128.5
132	106.9	73.4	110.0
97	83.4	52.7	79.1#

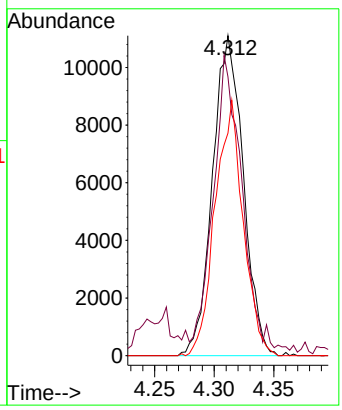




#39
1,2-Dichloropropane
Concen: 1.996 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 63 Resp: 1991

Ion	Ratio	Lower	Upper
63	100		
41	83.9	62.6	93.8
62	69.5	51.0	76.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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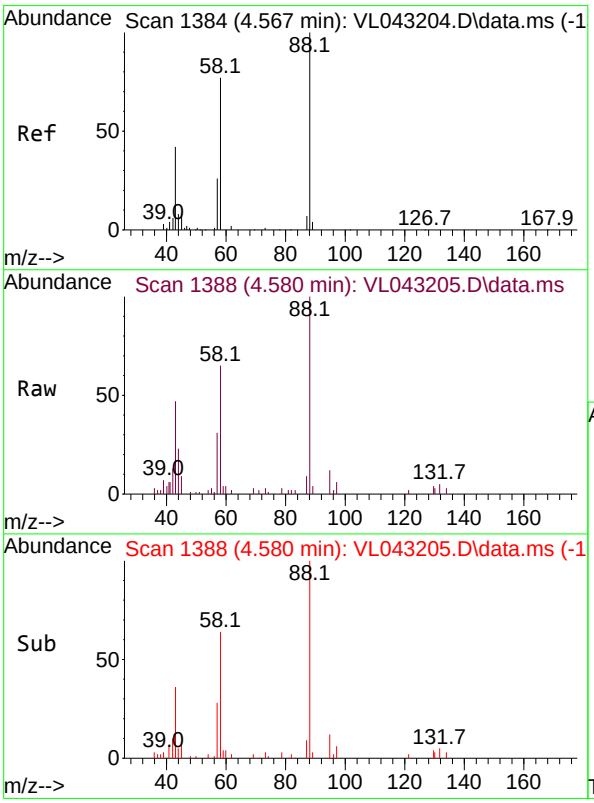
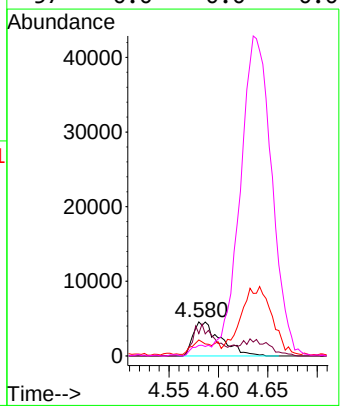
Supervised By :Mahesh Dadoda 11/19/2025

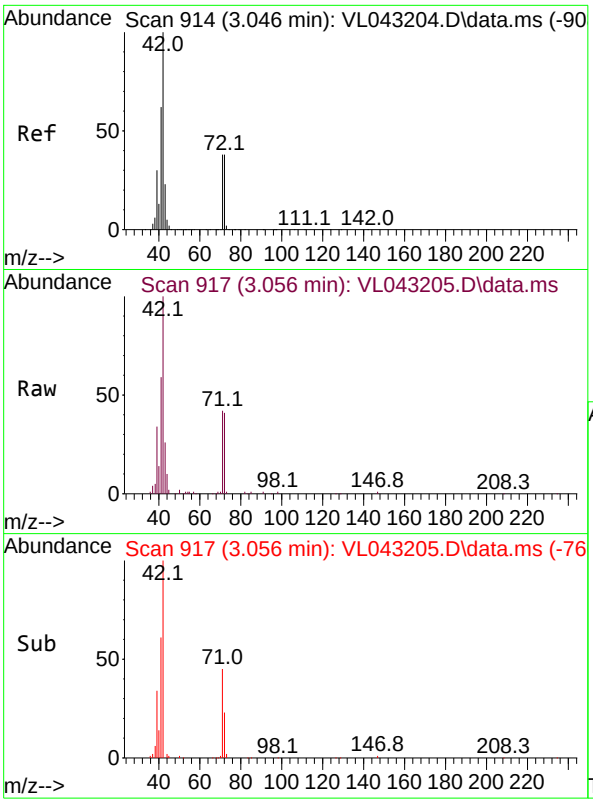


#40
1,4-Dioxane
Concen: 1.969 ppbv m
RT: 4.580 min Scan# 1388
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 88 Resp: 8829

Ion	Ratio	Lower	Upper
88	100		
58	0.0	63.0	94.6#
43	0.0	32.5	48.7#
57	0.0	0.0	0.0

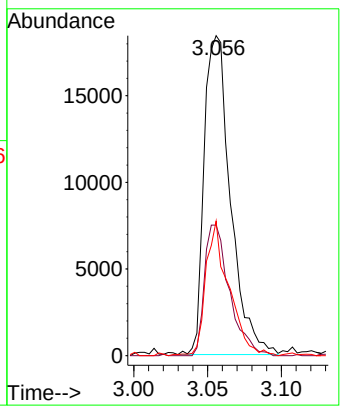




#41
Tetrahydrofuran
Concen: 2.065 ppbv
RT: 3.056 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 42 Resp: 2291

Ion	Ratio	Lower	Upper
42	100		
72	38.8	30.6	46.0
71	37.9	30.5	45.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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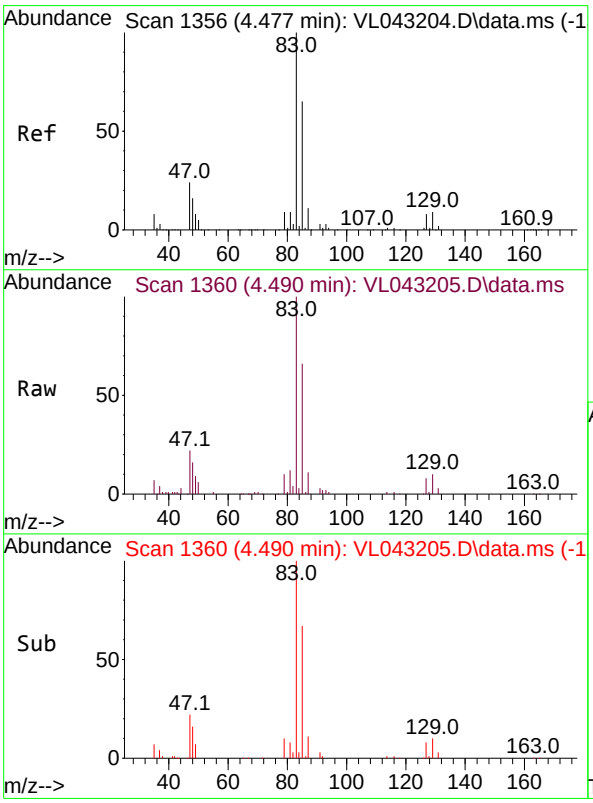
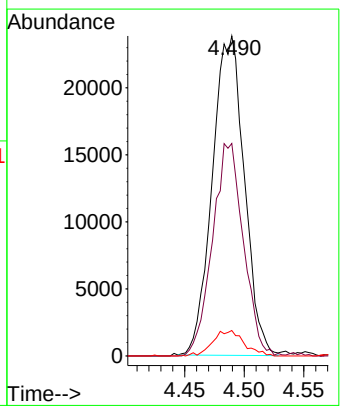
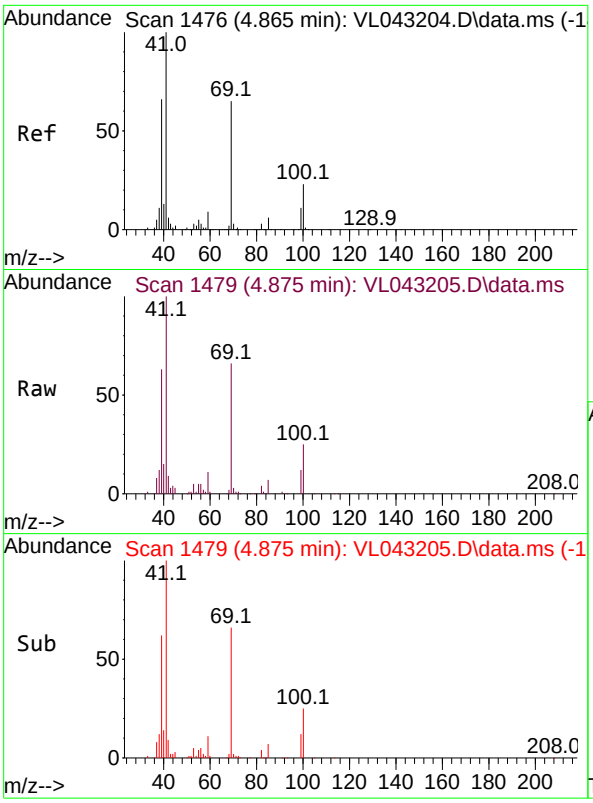


#42
Bromodichloromethane
Concen: 2.027 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 83 Resp: 44584

Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.7	77.5
127	7.9	6.3	9.5

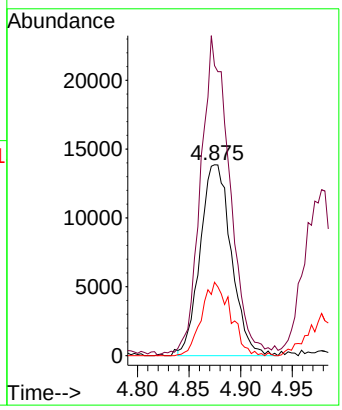




#43
Methyl Methacrylate
Concen: 2.009 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 69 Resp: 2907

Ion	Ratio	Lower	Upper
69	100		
41	157.2	126.7	190.1
100	36.0	28.6	43.0



Instrument :
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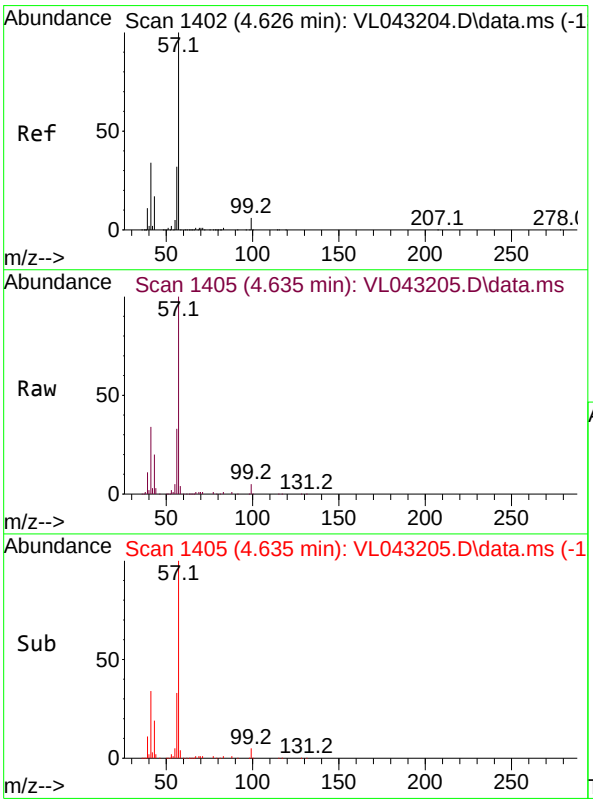
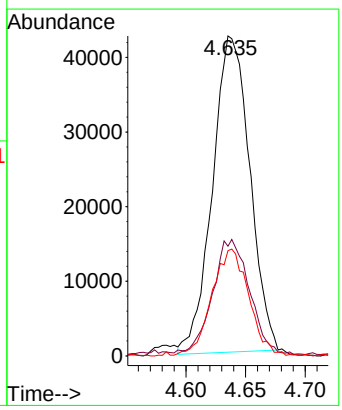
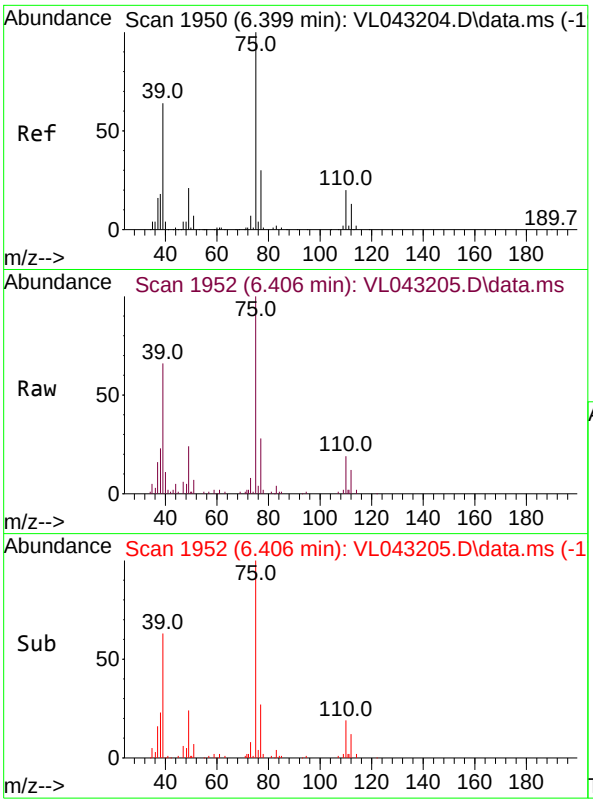


#44
2,2,4-Trimethylpentane
Concen: 1.971 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 57 Resp: 92261

Ion	Ratio	Lower	Upper
57	100		
41	37.8	28.0	42.0
56	33.9	25.6	38.4

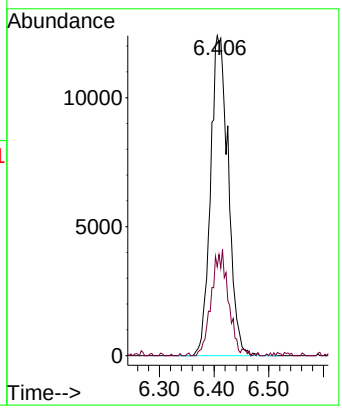




#45
t-1,3-Dichloropropene
Concen: 2.064 ppbv m
RT: 6.406 min Scan# 19
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 75 Resp: 2783

Ion	Ratio	Lower	Upper
75	100		
77	27.8	24.3	36.5



Instrument :
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ClientSampleId :
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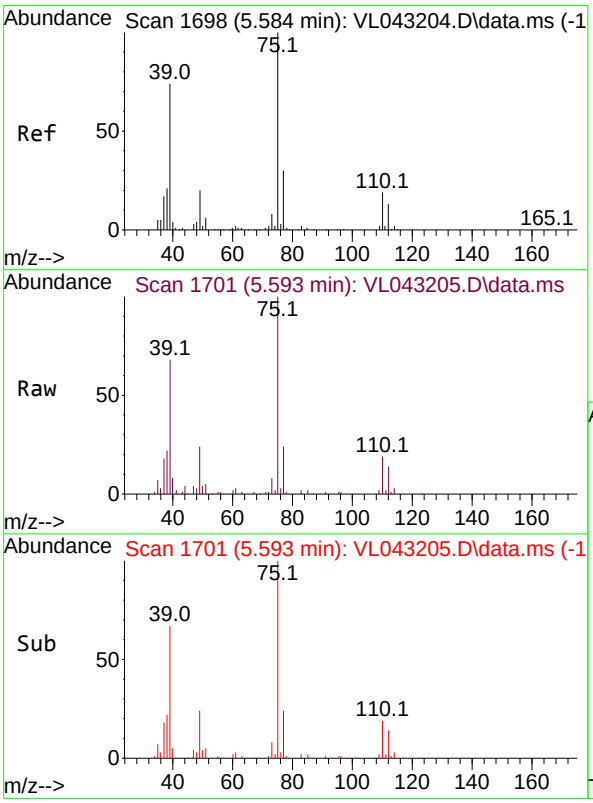
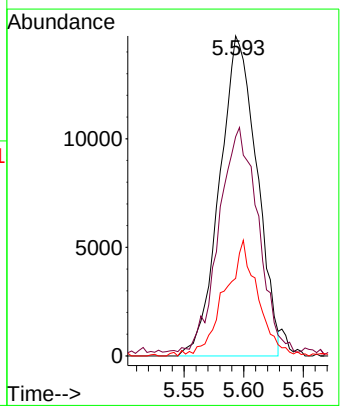
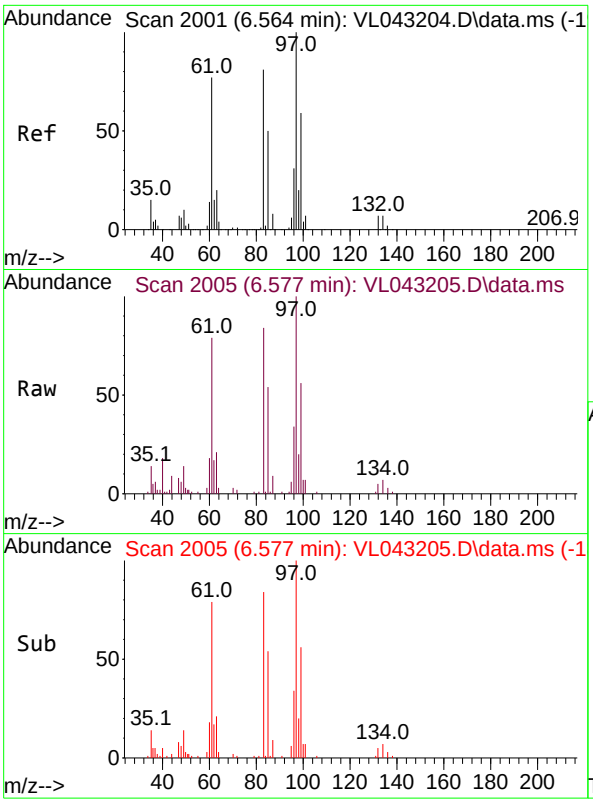


#46
cis-1,3-Dichloropropene
Concen: 2.020 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 75 Resp: 31986

Ion	Ratio	Lower	Upper
75	100		
39	67.2	59.1	88.7
77	24.2	24.2	36.2

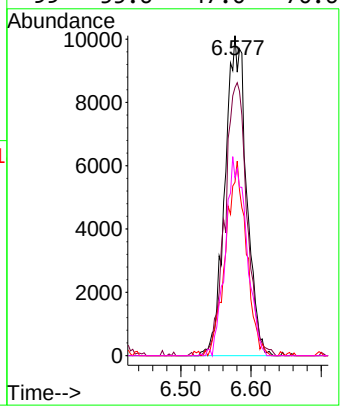




#47
1,1,2-Trichloroethane
Concen: 2.025 ppbv m
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 97 Resp: 2154

Ion	Ratio	Lower	Upper
97	100		
83	83.8	64.6	97.0
85	54.2	39.4	59.2
99	55.6	47.0	70.6



Instrument :
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ClientSampleId :
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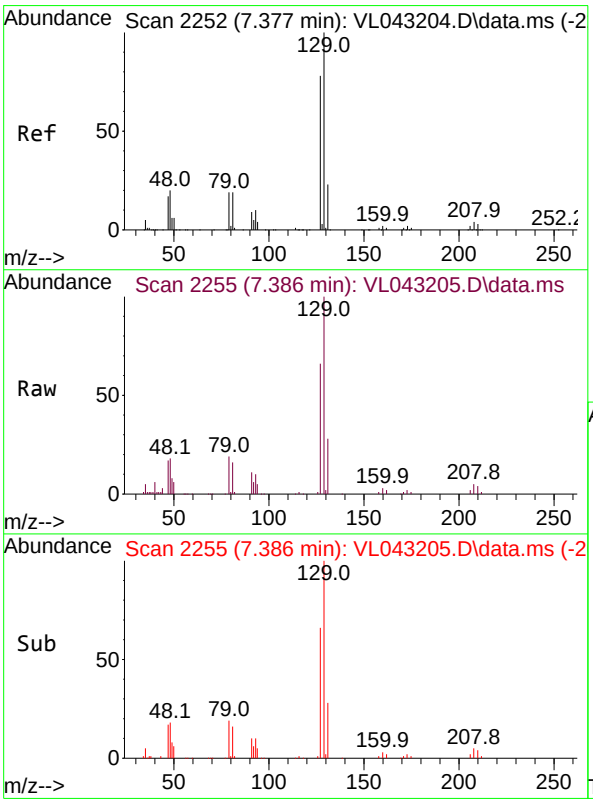
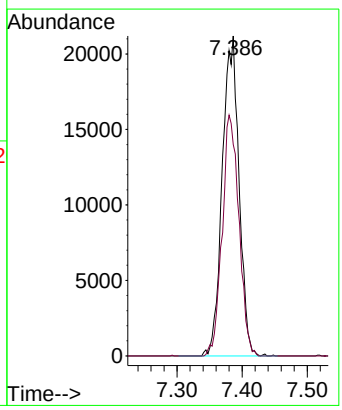
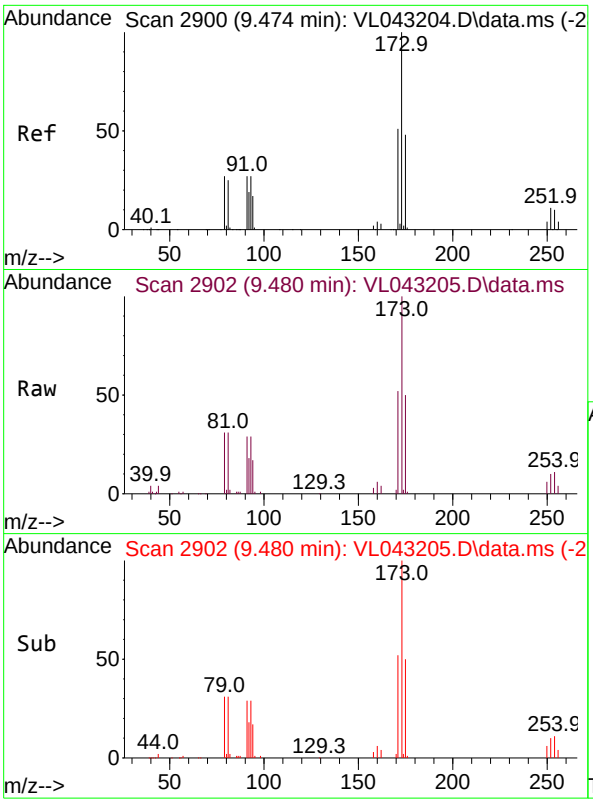


#48
Dibromochloromethane
Concen: 2.074 ppbv m
RT: 7.386 min Scan# 2255
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:129 Resp: 37758

Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.3	117.9#

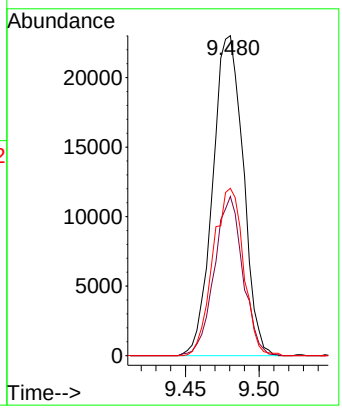




#49
Bromoform
Concen: 2.050 ppbv
RT: 9.480 min Scan# 29
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:173 Resp: 3305

Ion	Ratio	Lower	Upper
173	100		
175	46.6	38.6	58.0
171	52.4	40.6	61.0



Instrument :
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ClientSampleId :
VSTDICC002

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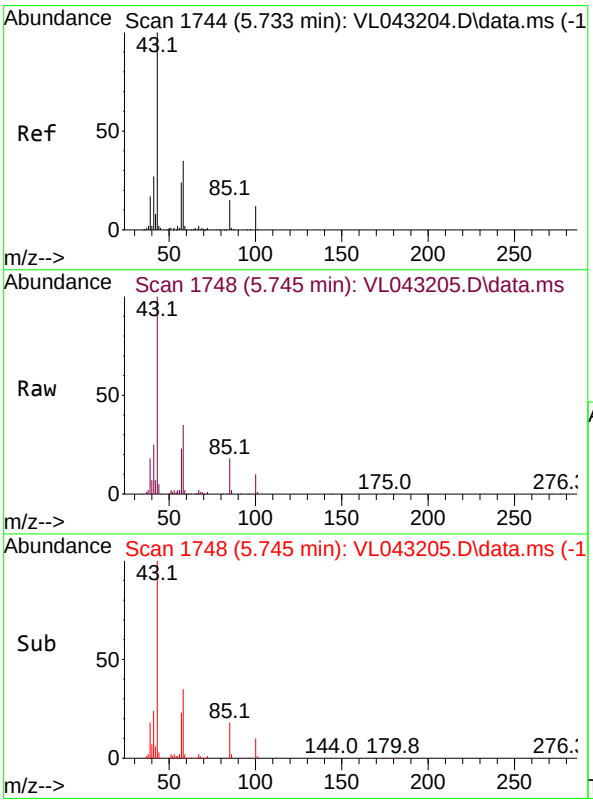
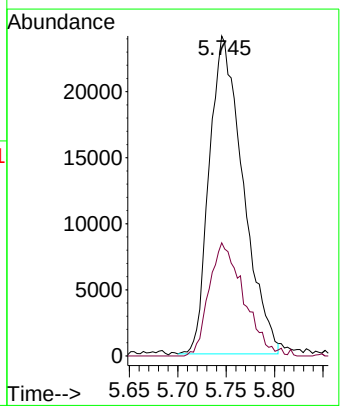
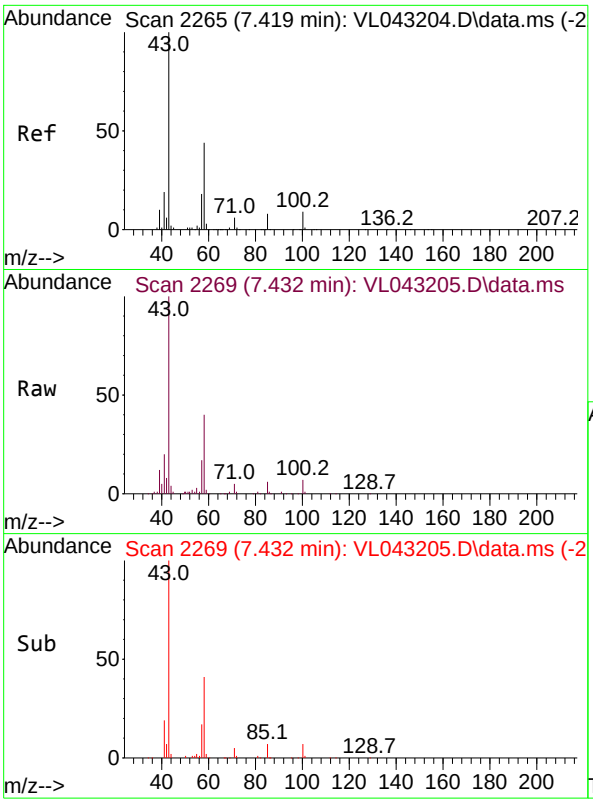


#50
4-Methyl-2-Pentanone
Concen: 2.066 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 58461

Ion	Ratio	Lower	Upper
43	100		
58	36.7	28.4	42.6

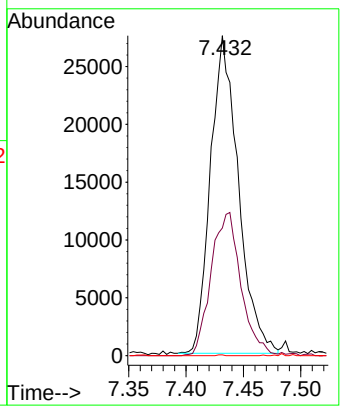




#51
2-Hexanone
Concen: 2.113 ppbv
RT: 7.432 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 4644

Ion	Ratio	Lower	Upper
43	100		
58	48.4	38.4	57.6
98	0.2	0.0	0.0#



Instrument :
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ClientSampleId :
VSTDICC002

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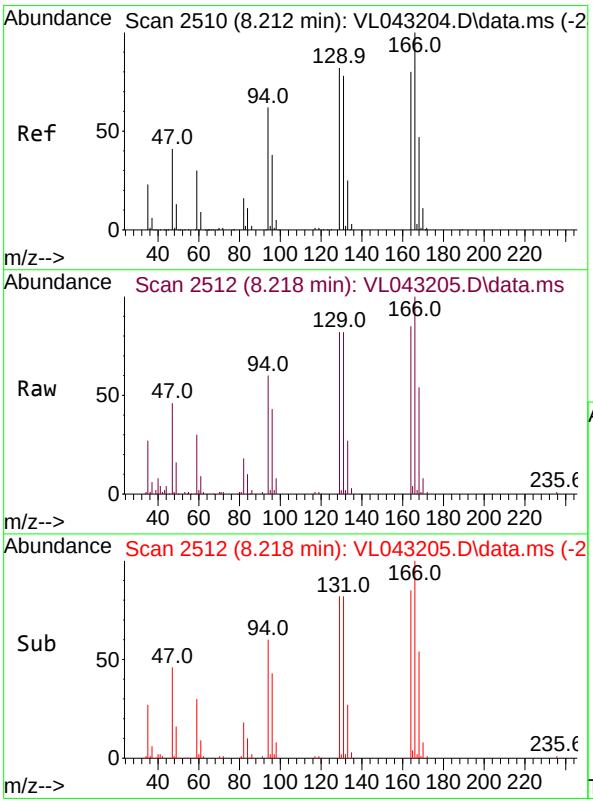
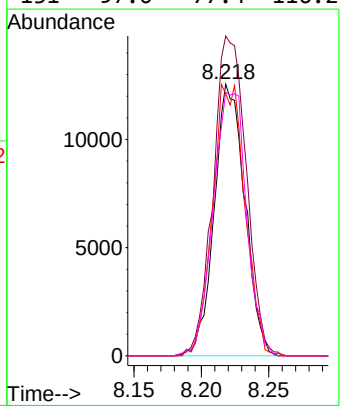
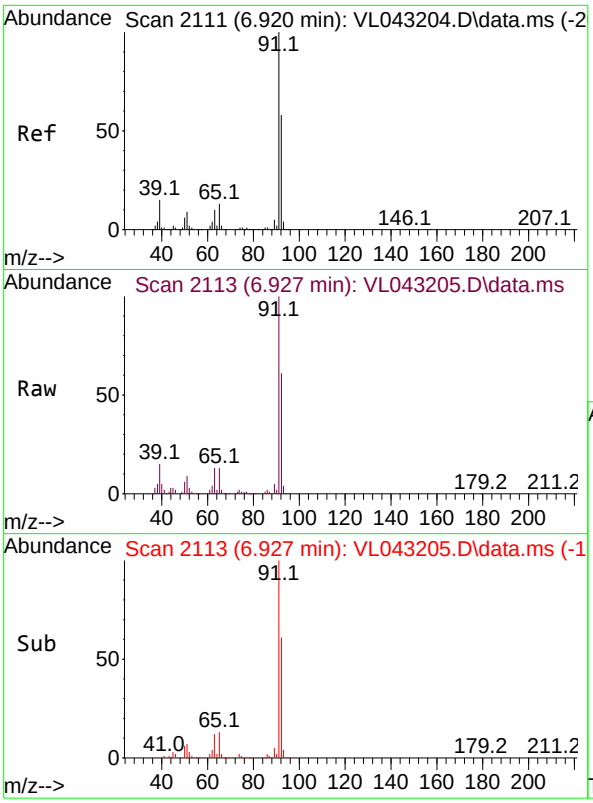


#52
Tetrachloroethene
Concen: 1.958 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:164 Resp: 19856

Ion	Ratio	Lower	Upper
164	100		
166	117.2	99.4	149.2
129	96.5	81.8	122.8
131	97.0	77.4	116.2

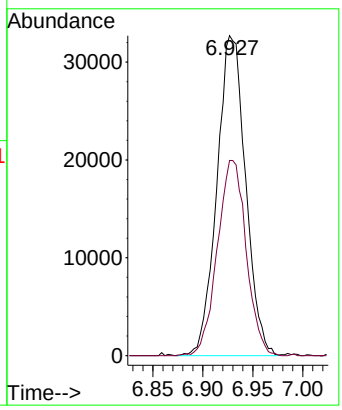




#53
Toluene
Concen: 2.008 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 6523

Ion	Ratio	Lower	Upper
91	100		
92	61.5	47.4	71.0



Instrument :
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ClientSampleId :
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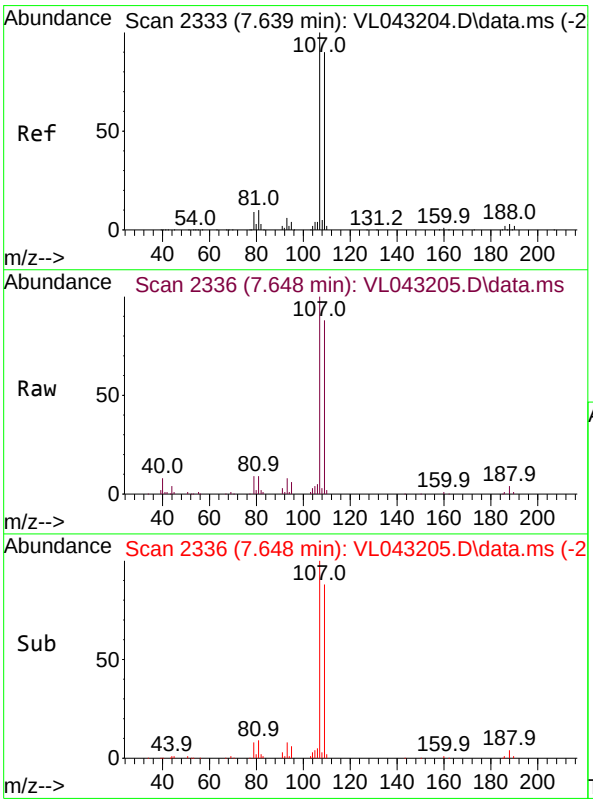
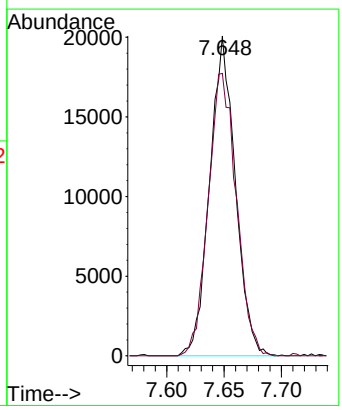
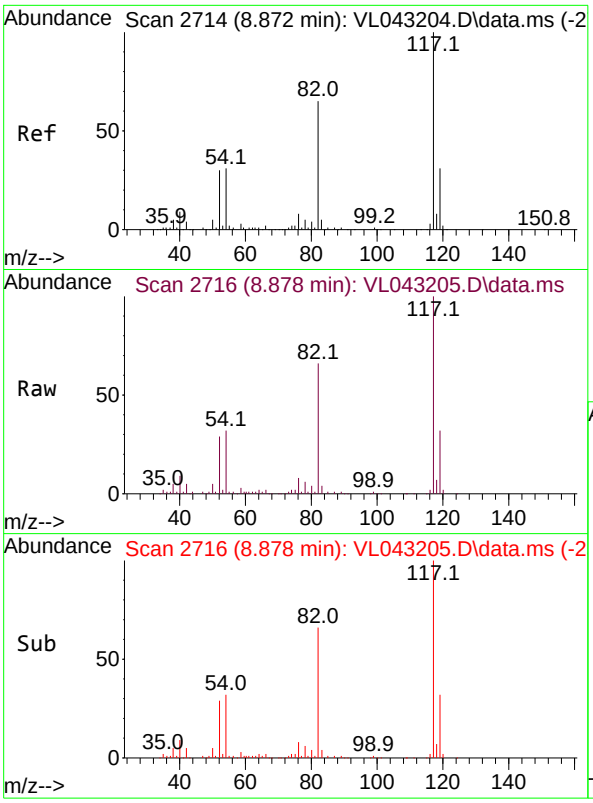


#54
1,2-Dibromoethane
Concen: 2.007 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:107 Resp: 31266

Ion	Ratio	Lower	Upper
107	100		
109	88.3	72.1	108.1

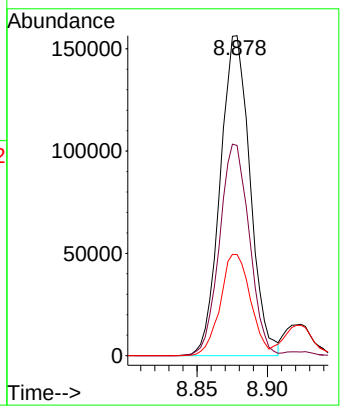




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:117 Resp: 23064

Ion	Ratio	Lower	Upper
117	100		
82	67.2	56.1	84.1
119	32.0	25.0	37.6



Instrument :
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ClientSampleId :
VSTDICC002

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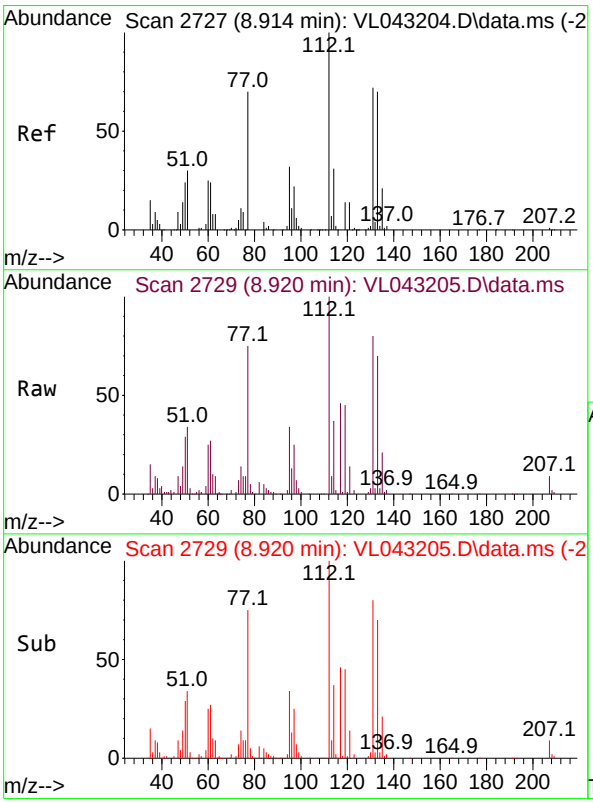
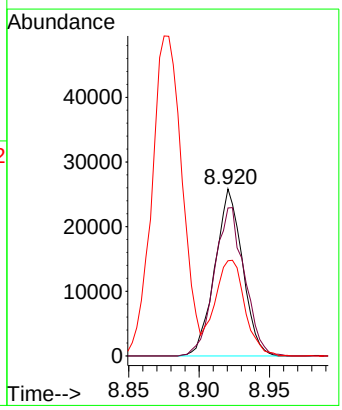
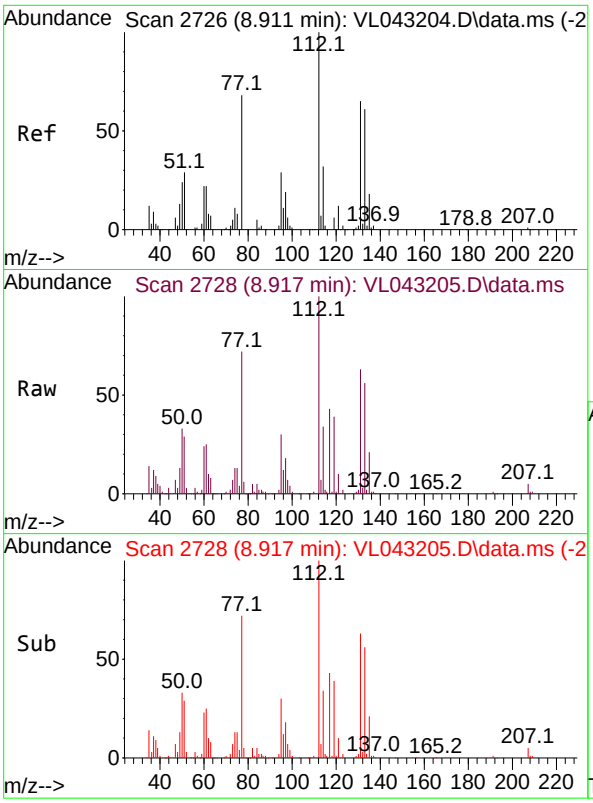


#56
1,1,1,2-Tetrachloroethane
Concen: 2.071 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:131 Resp: 35099

Ion	Ratio	Lower	Upper
131	100		
133	97.4	77.4	116.2
119	60.1	49.1	73.7

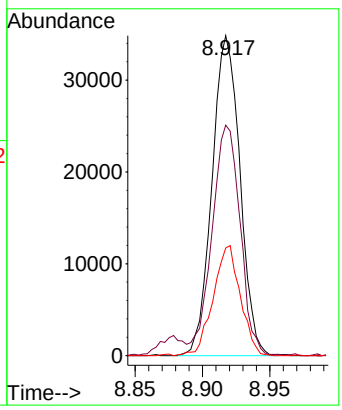




#57
Chlorobenzene
Concen: 2.121 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:112 Resp: 5022

Ion	Ratio	Lower	Upper
112	100		
77	71.6	55.5	83.3
114	33.6	29.1	35.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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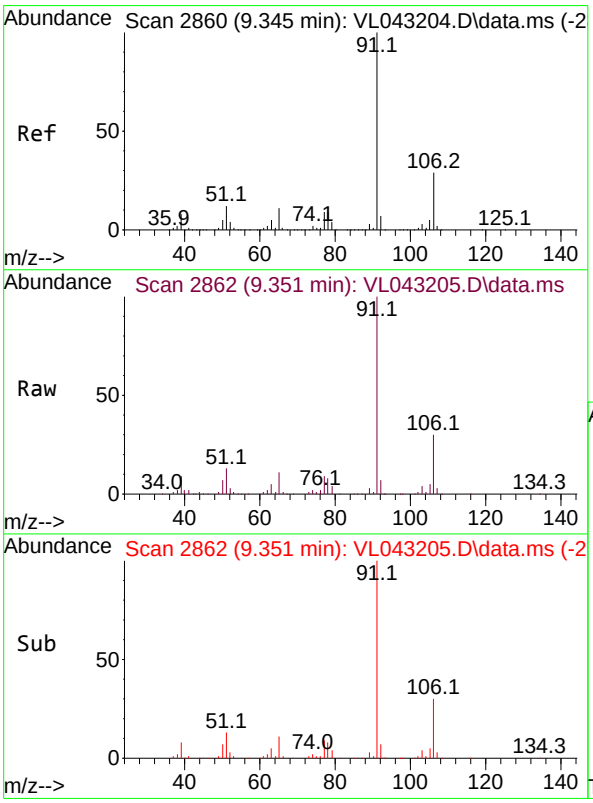
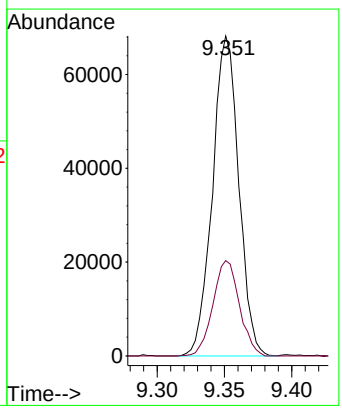
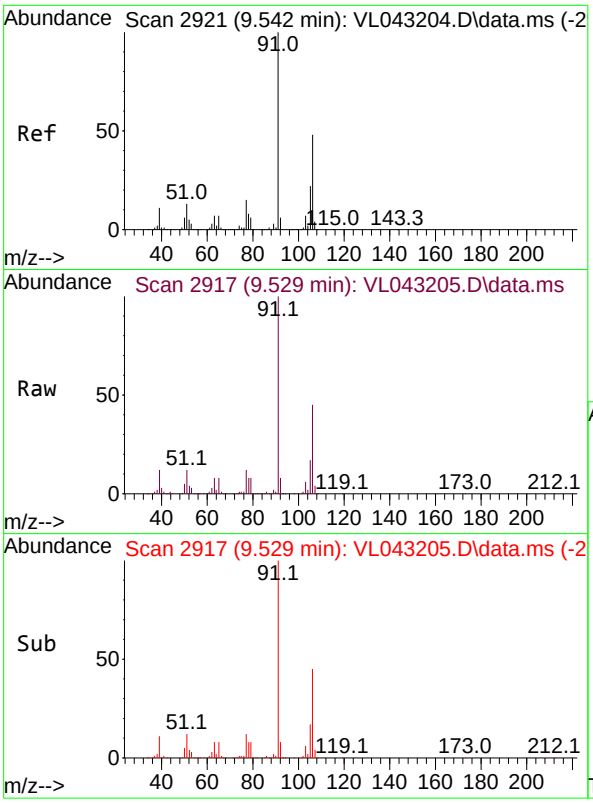


#58
Ethyl Benzene
Concen: 2.087 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 92649

Ion	Ratio	Lower	Upper
91	100		
106	29.8	22.8	34.2





#59
m/p-Xylene
Concen: 4.151 ppbv m
RT: 9.529 min Scan# 29
Delta R.T. -0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 14830

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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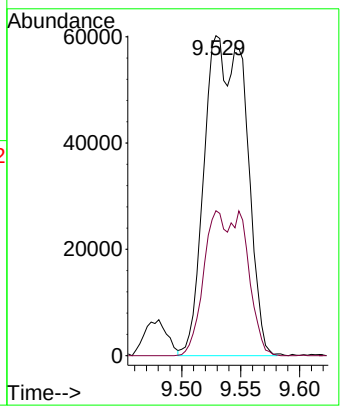
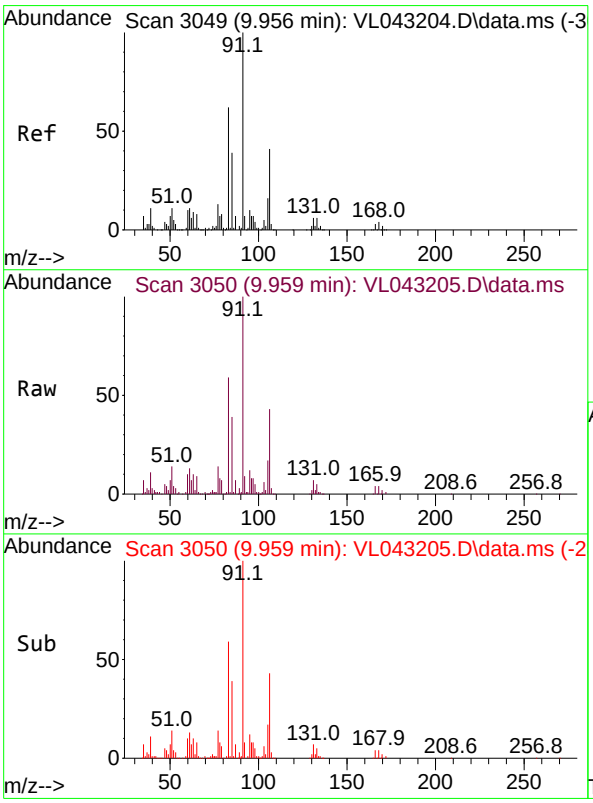
Supervised By :Mahesh Dadoda 11/19/2025

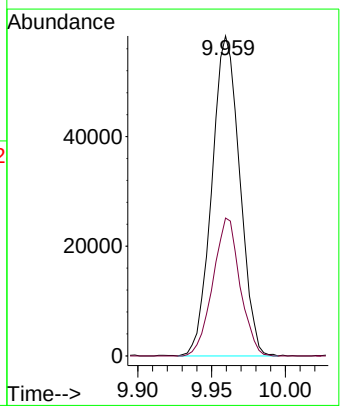


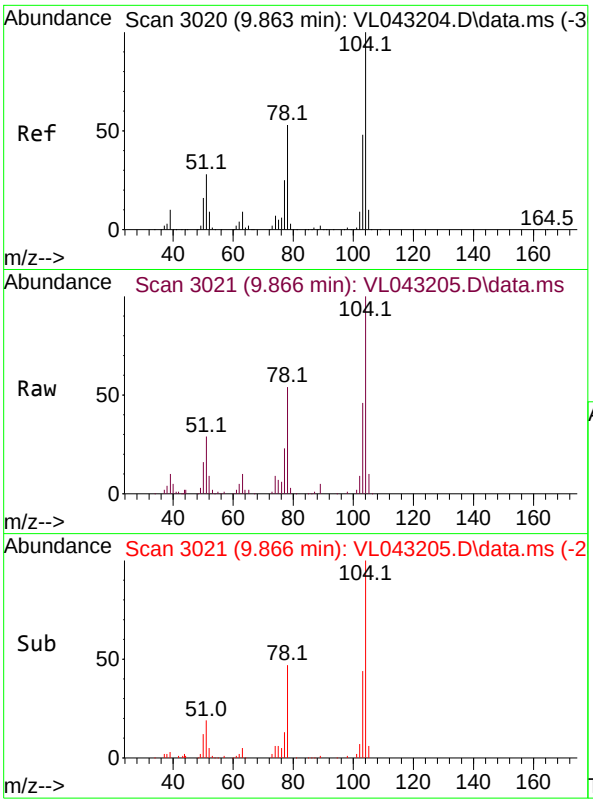


#60
o-Xylene
Concen: 2.153 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 76540

Ion	Ratio	Lower	Upper
91	100		
106	41.9	20.9	62.8

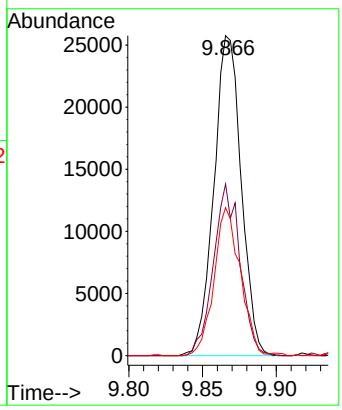




#61
Styrene
Concen: 2.133 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:104 Resp: 3318

Ion	Ratio	Lower	Upper
104	100		
78	52.1	42.1	63.1
103	44.9	37.2	55.8



Instrument :
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ClientSampleId :
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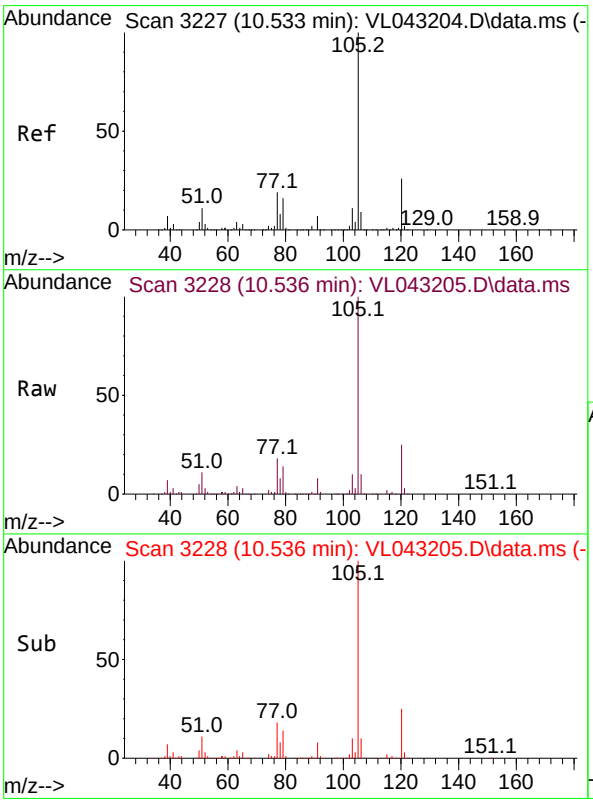
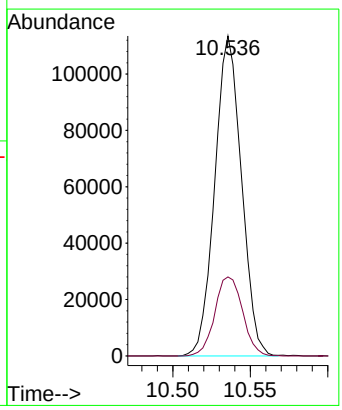
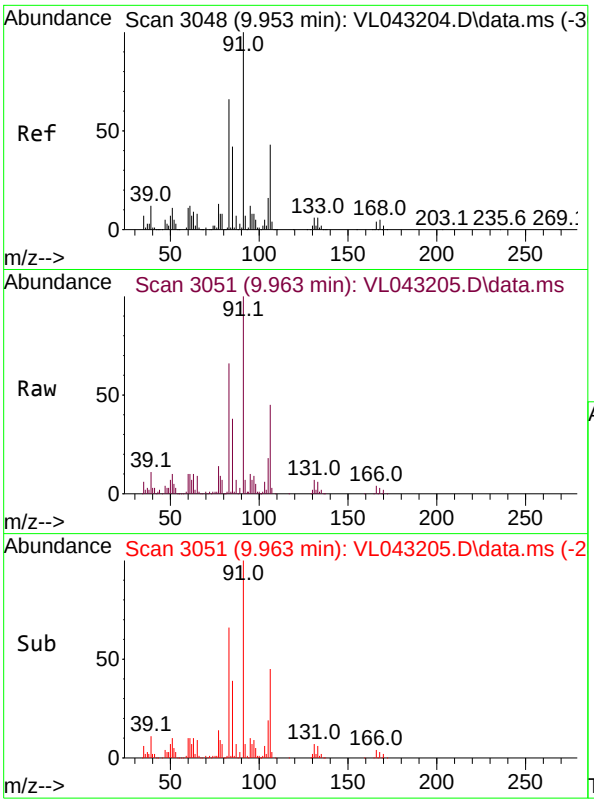


#62
Isopropylbenzene
Concen: 2.136 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 135853

Ion	Ratio	Lower	Upper
105	100		
120	25.6	19.8	29.8

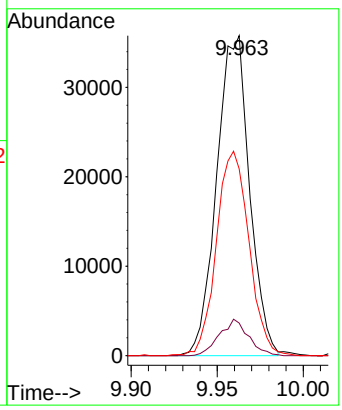




#63
1,1,2,2-Tetrachloroethane
Concen: 2.102 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 83 Resp: 4743

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.3
85	63.4	31.9	95.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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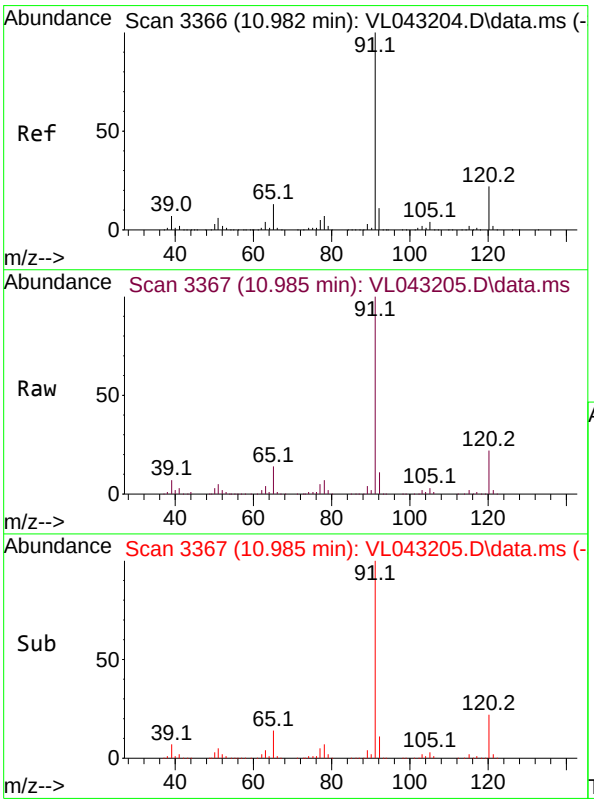
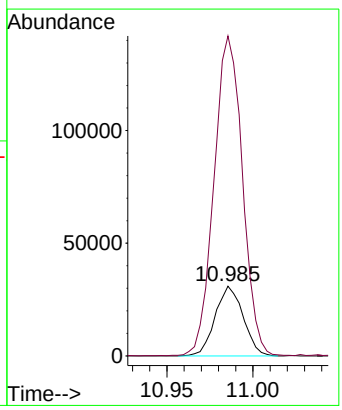
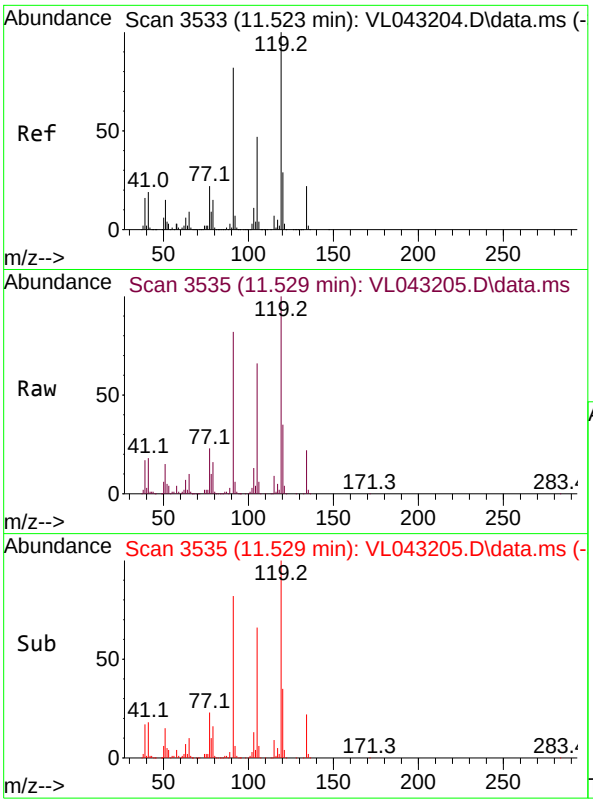


#64
n-propylbenzene
Concen: 2.136 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:120 Resp: 34915

Ion	Ratio	Lower	Upper
120	100		
91	467.6	377.1	565.7

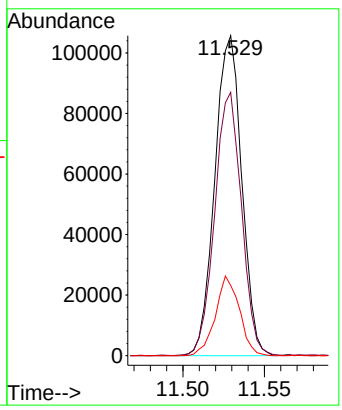




#65
tert-Butylbenzene
Concen: 2.149 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:119 Resp: 12206

Ion	Ratio	Lower	Upper
119	100		
91	82.0	65.3	97.9
134	22.1	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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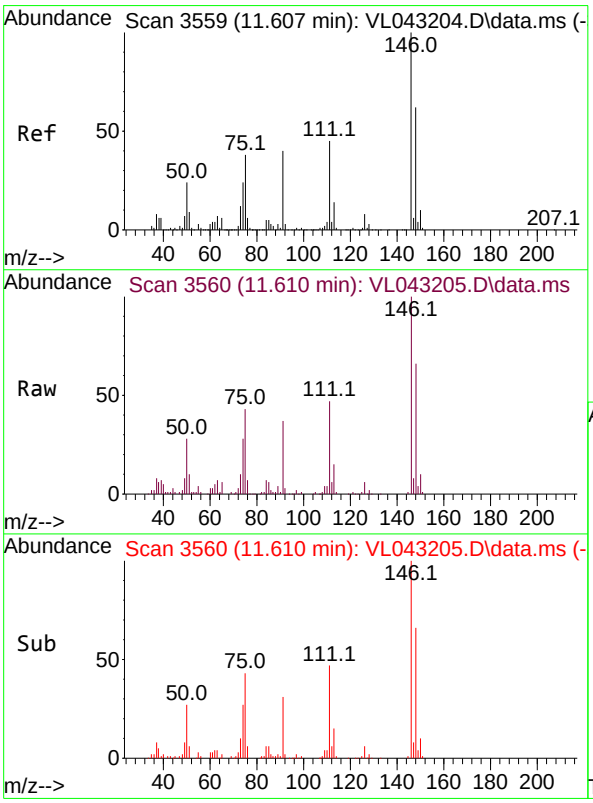
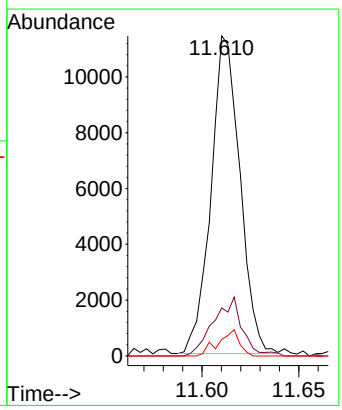
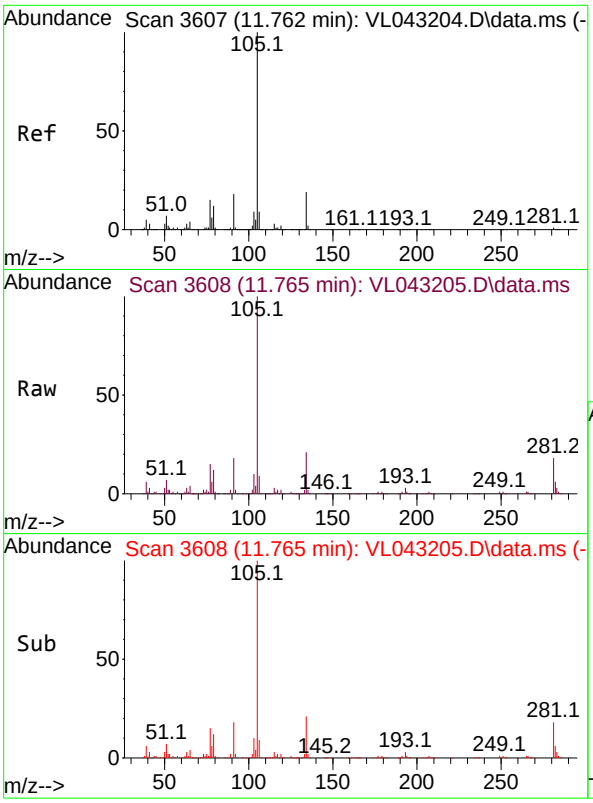


#66
Benzyl Chloride
Concen: 2.059 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 11870

Ion	Ratio	Lower	Upper
91	100		
126	18.3	14.4	21.6
128	5.9	4.6	6.8

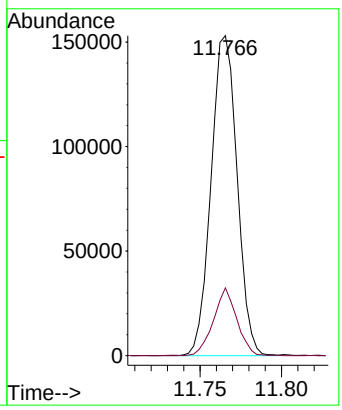




#67
sec-Butylbenzene
Concen: 2.151 ppbv
RT: 11.765 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 17052

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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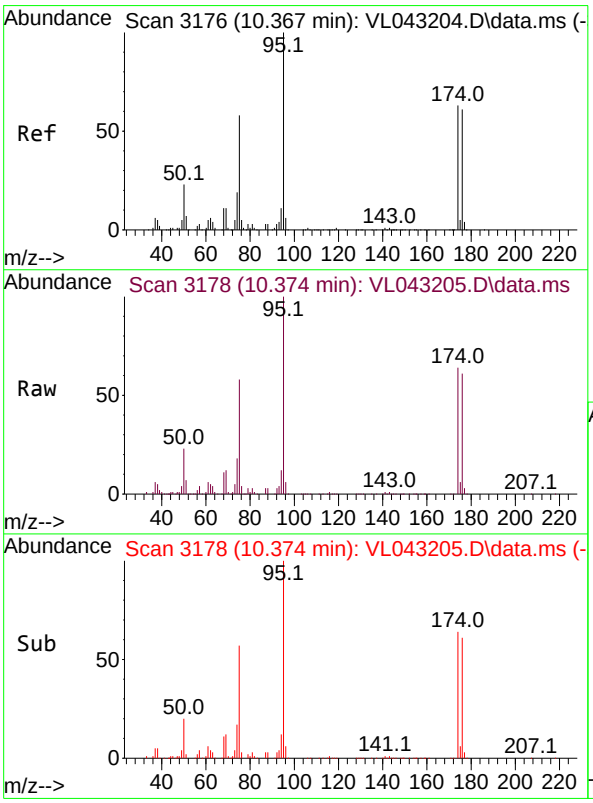
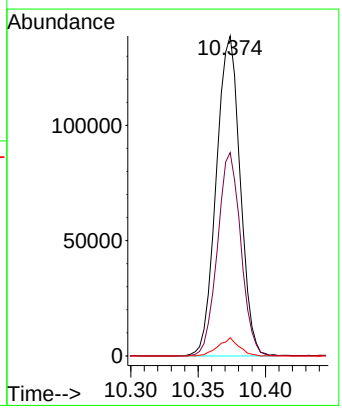
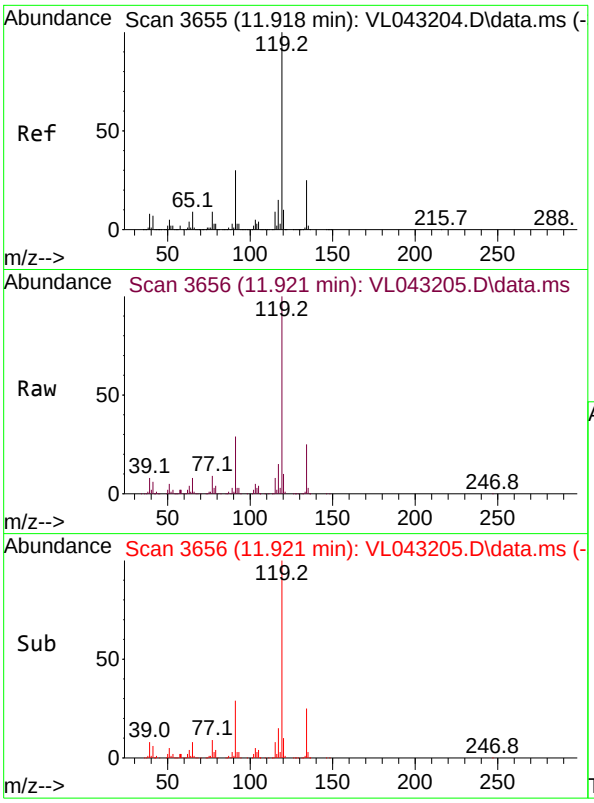


#68
1-Bromo-4-Fluorobenzene
Concen: 10.115 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 95 Resp: 171009

Ion	Ratio	Lower	Upper
95	100		
174	62.1	50.2	75.2
175	4.9	4.1	6.1

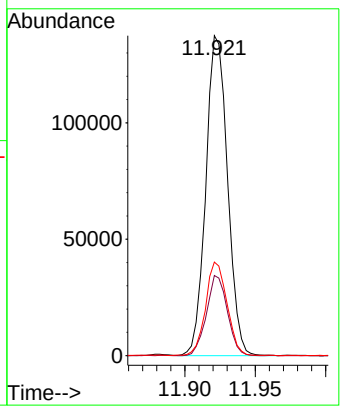




#69
p-Isopropyltoluene
Concen: 2.195 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:119 Resp: 14748

Ion	Ratio	Lower	Upper
119	100		
134	24.2	20.2	30.2
91	29.1	23.8	35.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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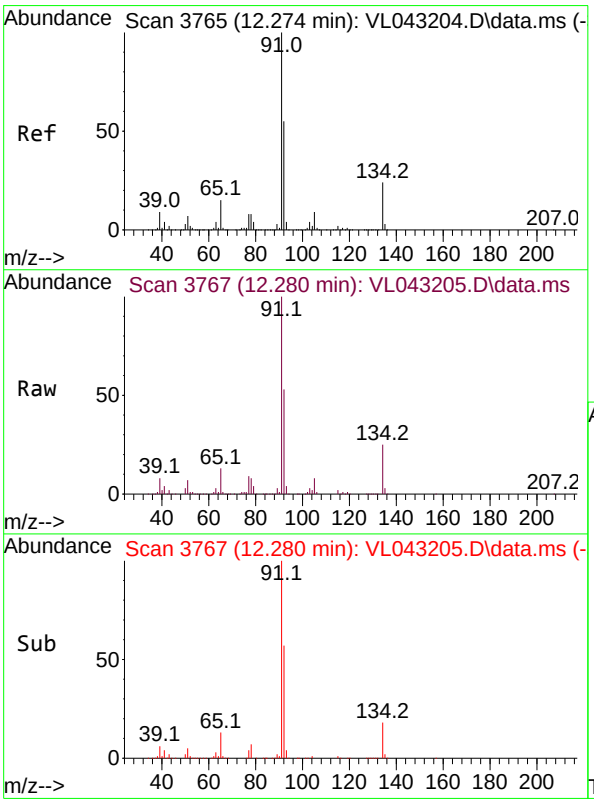
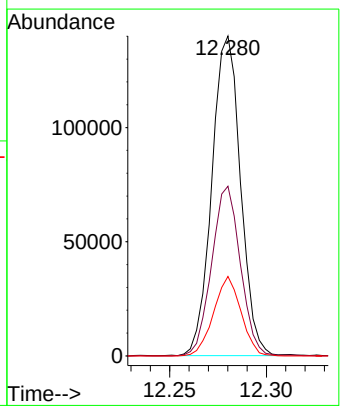
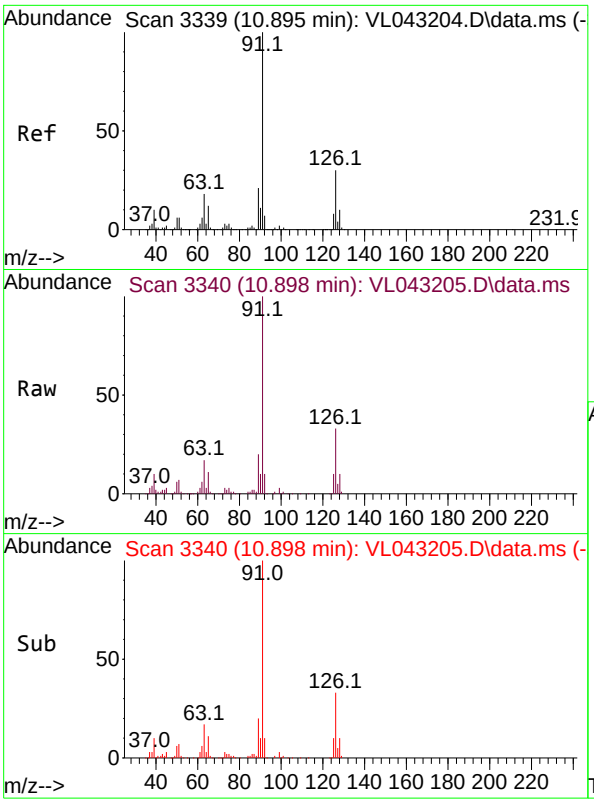


#70
n-Butylbenzene
Concen: 2.212 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 144148

Ion	Ratio	Lower	Upper
91	100		
92	53.3	43.5	65.3
134	23.8	19.0	28.6

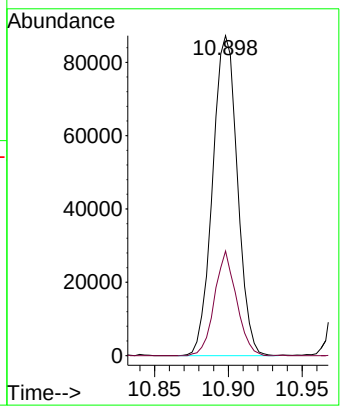




#71
2-Chlorotoluene
Concen: 2.085 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 10195

Ion	Ratio	Lower	Upper
91	100		
126	29.0	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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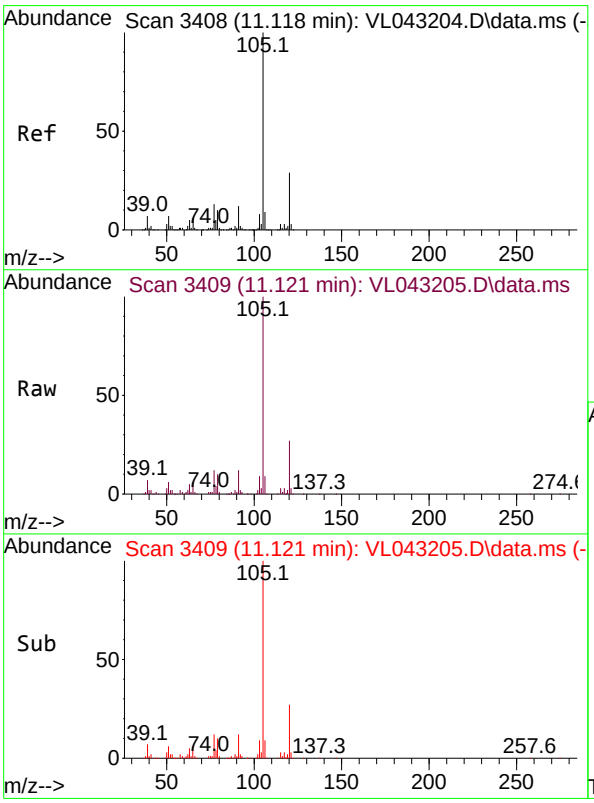
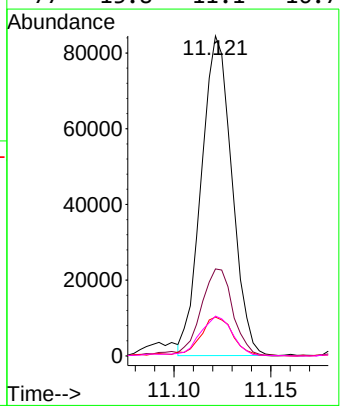
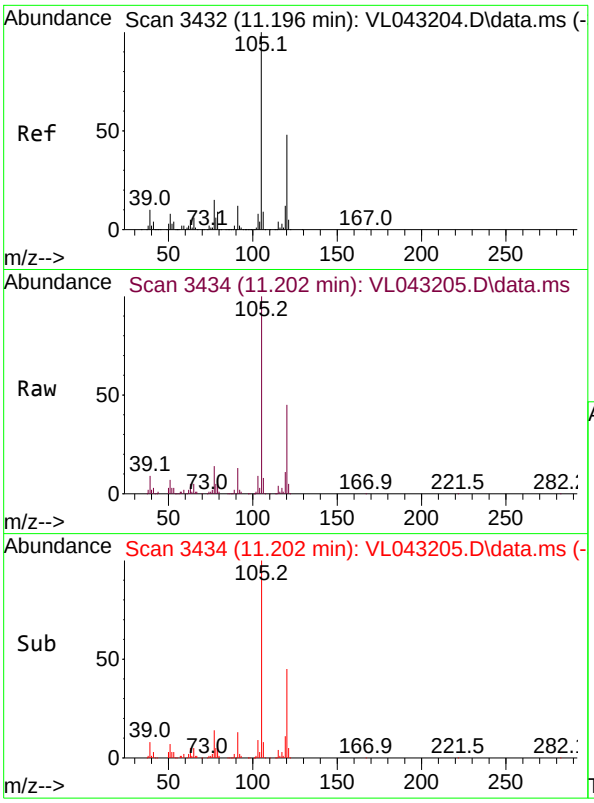


#72
4-Ethyltoluene
Concen: 2.140 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 92654

Ion	Ratio	Lower	Upper
105	100		
120	29.1	23.8	35.8
91	13.7	10.3	15.5
77	13.8	11.1	16.7

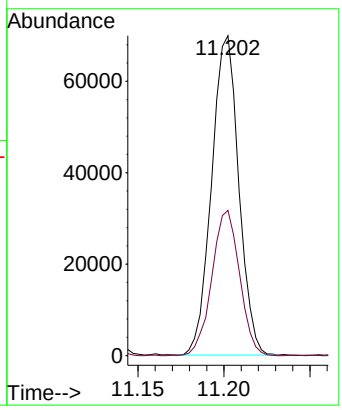




#73
1,3,5-Trimethylbenzene
Concen: 2.110 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 7665

Ion	Ratio	Lower	Upper
105	100		
120	45.5	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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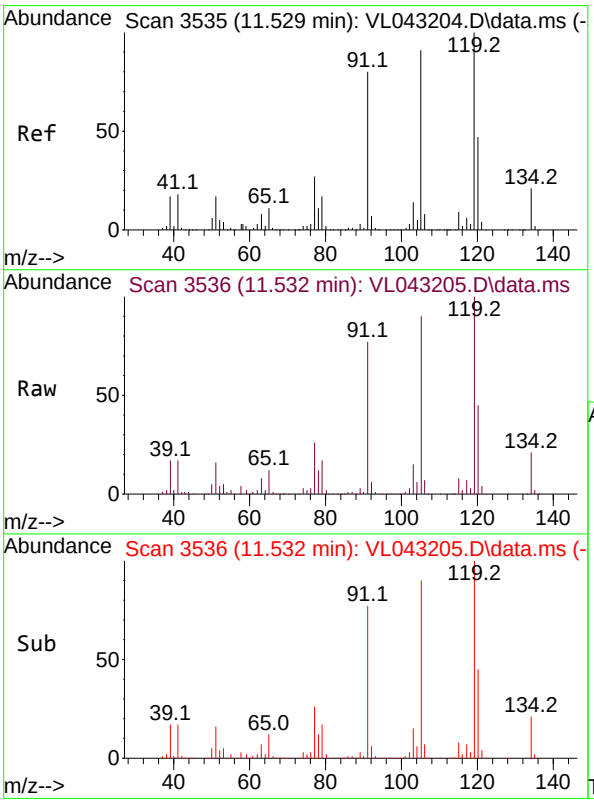
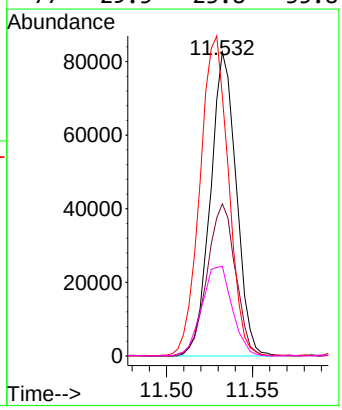
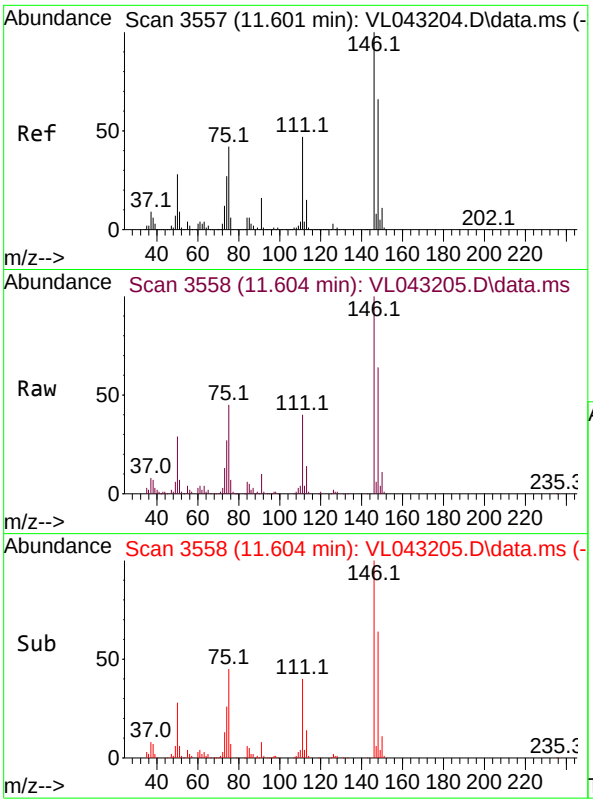


#74
1,2,4-Trimethylbenzene
Concen: 2.176 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 86286

Ion	Ratio	Lower	Upper
105	100		
120	50.0	41.7	62.5
91	85.2	70.0	105.0
77	29.5	23.8	35.8

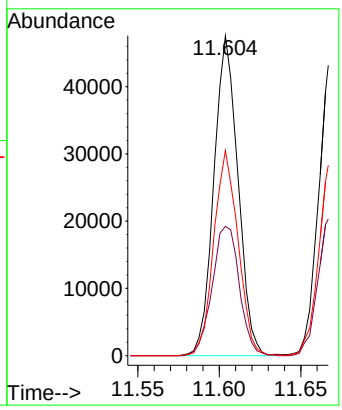




#75
1,3-Dichlorobenzene
Concen: 2.116 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:146 Resp: 4896

Ion	Ratio	Lower	Upper
146	100		
111	45.7	23.4	70.3
148	64.6	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

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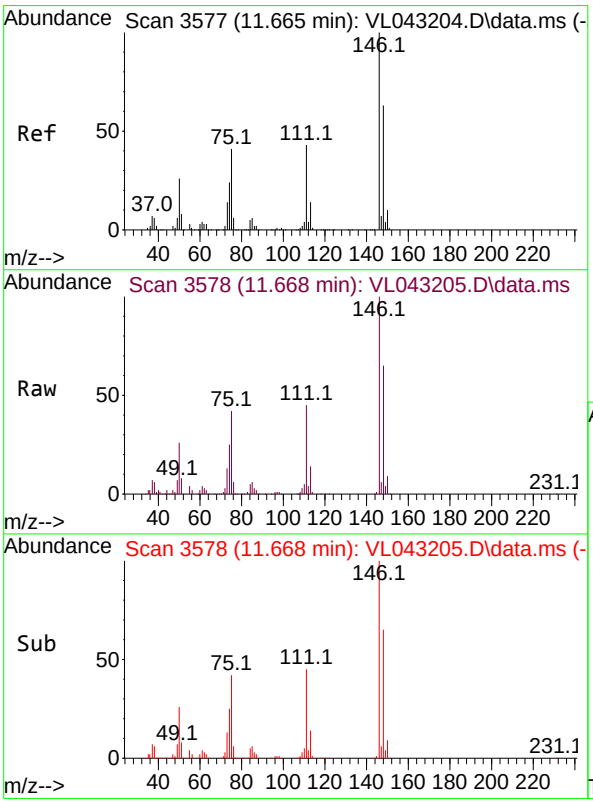
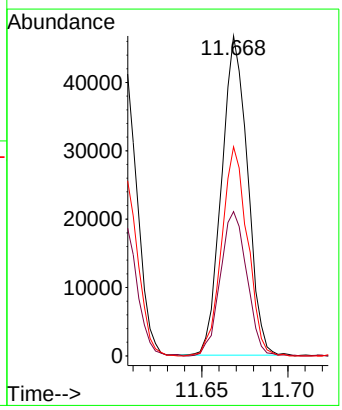
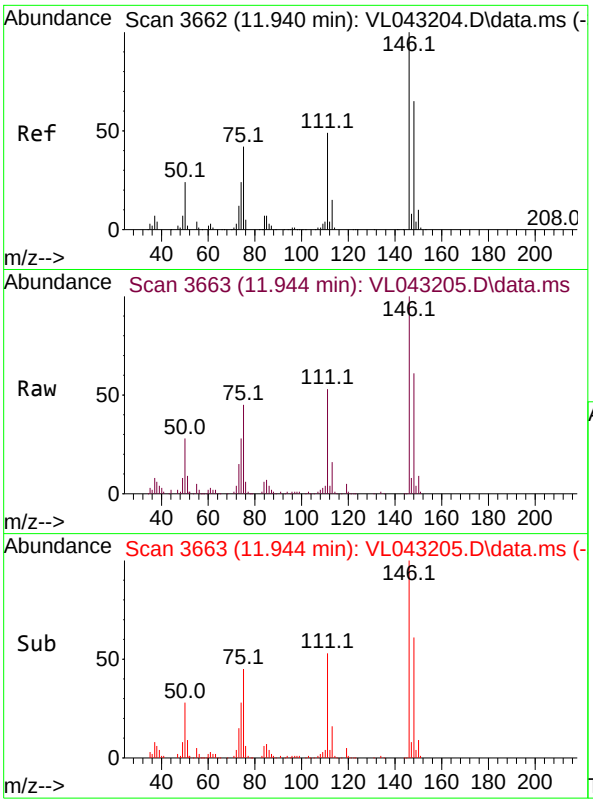


#76
1,4-Dichlorobenzene
Concen: 2.112 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:146 Resp: 48881

Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.8	68.3
148	65.3	31.8	95.4

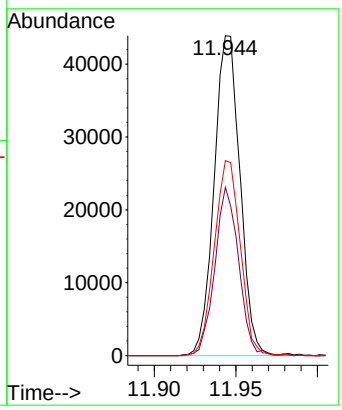




#77
1,2-Dichlorobenzene
Concen: 2.177 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:146 Resp: 4843

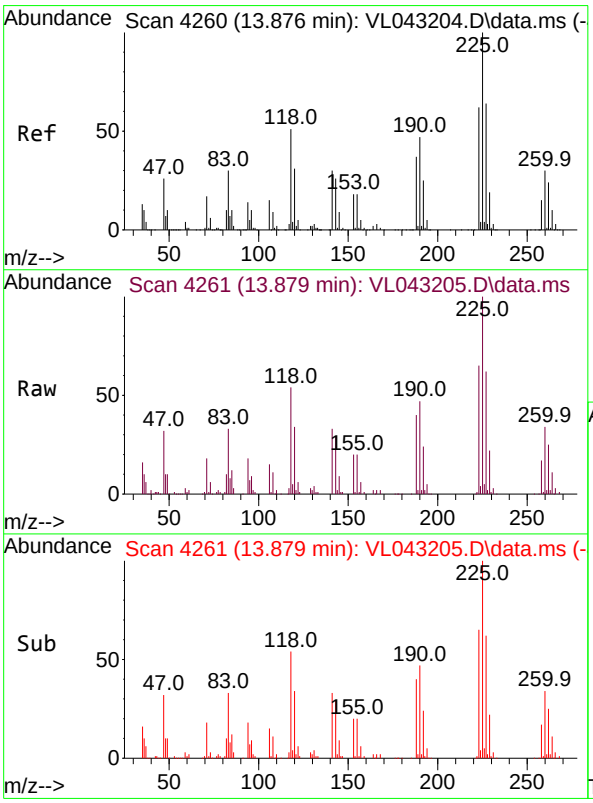
Ion	Ratio	Lower	Upper
146	100		
111	48.5	24.3	73.0
148	61.3	31.6	94.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

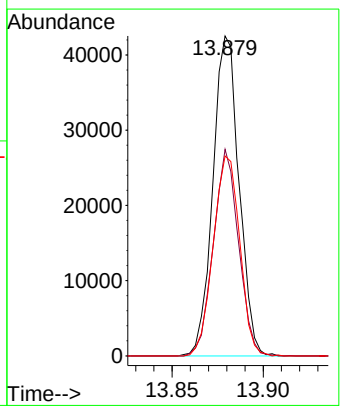
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

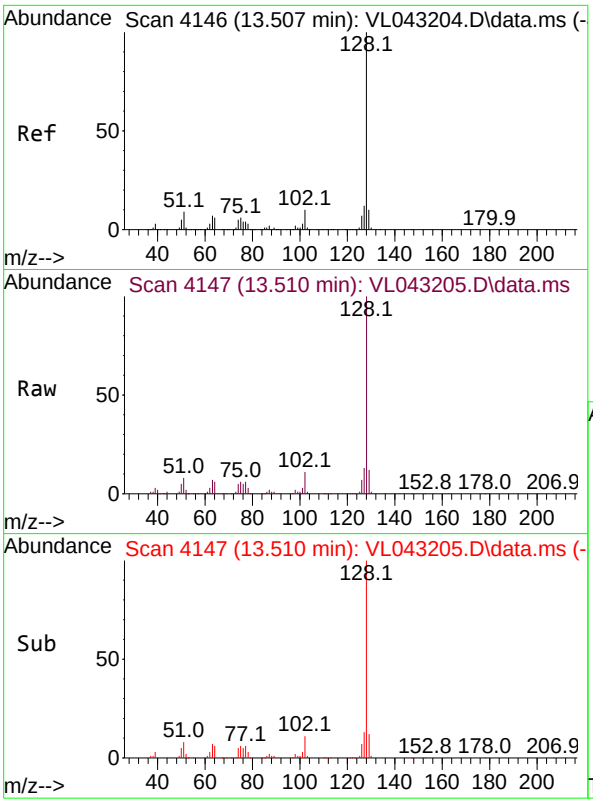


#78
Hexachloro-1,3-Butadiene
Concen: 2.287 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:225 Resp: 42456

Ion	Ratio	Lower	Upper
225	100		
223	62.1	50.2	75.4
227	63.4	51.1	76.7





#79
Naphthalene
Concen: 2.436 ppbv
RT: 13.510 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

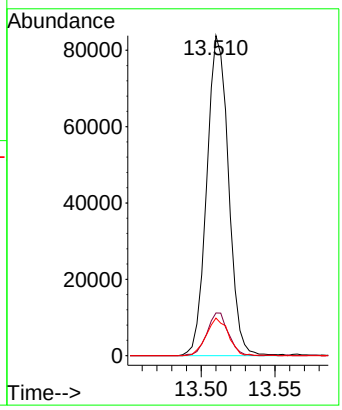
Tgt Ion:128 Resp: 8578

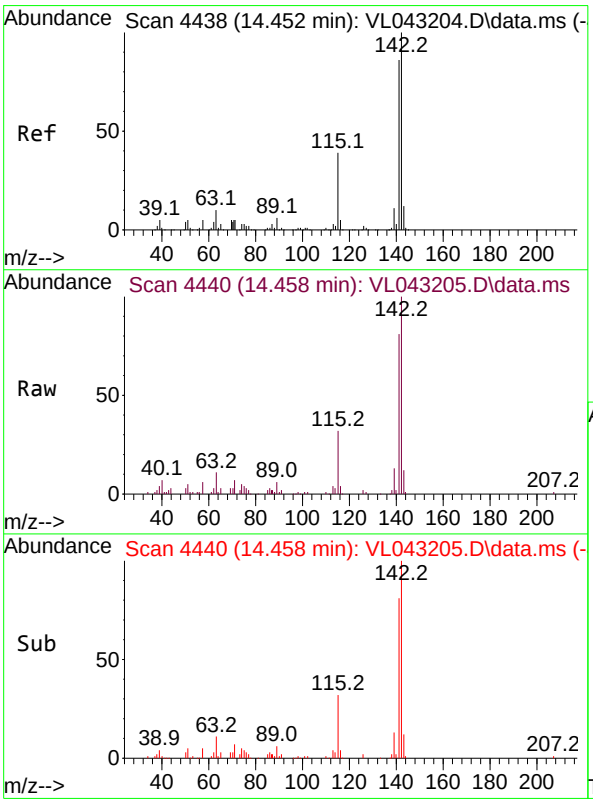
Ion	Ratio	Lower	Upper
128	100		
127	13.3	9.9	14.9
129	11.7	8.4	12.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

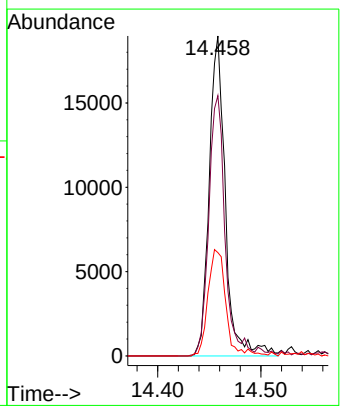


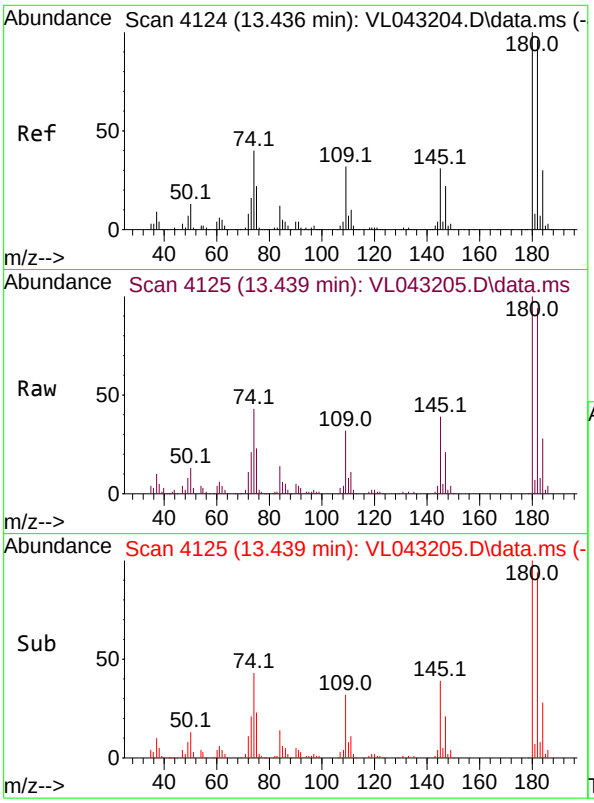


#80
Naphthalene,2-methyl-
Concen: 2.237 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:142 Resp: 20685

Ion	Ratio	Lower	Upper
142	100		
141	82.9	67.1	100.7
115	36.9	31.9	47.9

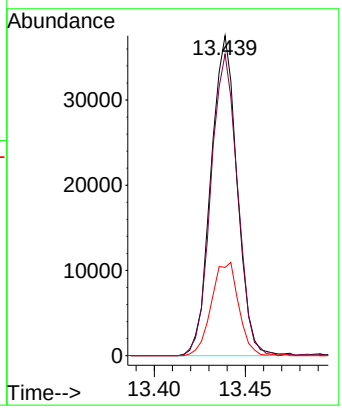




#81
1,2,4-Trichlorobenzene
Concen: 2.382 ppbv
RT: 13.439 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:180 Resp: 3752

Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.4	116.2
184	30.4	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043206.D
Acq On : 18 Nov 2025 11:10
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	102795	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	278732	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	227998	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	167061	9.996	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	15474	1.067	ppbv		100
3) Chlorodifluoromethane	1.476	51	14437	1.013	ppbv	#	92
4) Chloromethane	1.531	50	5751	1.061	ppbv		92
5) Vinyl Chloride	1.580	62	5967	1.007	ppbv		95
6) Bromomethane	1.667	94	3104	1.080	ppbv		94
7) Chloroethane	1.706	64	2550	1.104	ppbv		97
8) Dichlorotetrafluoroethane	1.554	85	12759	1.058	ppbv		98
9) Propene	1.483	41	6147	0.929	ppbv	#	1
10) Heptane	4.972	43	18544	1.022	ppbv		100
11) Trichlorofluoromethane	1.877	101	15571	1.108	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.140	101	11743	1.071	ppbv		99
13) Ethanol	1.719	45	2373	1.115	ppbv		67
14) Bromoethene	1.780	108	4345	1.033	ppbv	#	91
15) Acetone	1.835	43	16353	1.145	ppbv		90
16) 1,3-Butadiene	1.609	39	6469	1.016	ppbv		96
17) tert-Butyl alcohol	2.039	59	20703	1.104	ppbv	#	92
18) 1,1-Dichloroethene	2.033	96	5447	1.067	ppbv		97
19) Isopropyl Alcohol	1.884	45	8849	1.097	ppbv	#	43
20) Methylene Chloride	2.059	84	7297	1.030	ppbv		85
21) Allyl Chloride	2.094	41	9198	0.957	ppbv	#	84
22) trans-1,2-Dichloroethene	2.340	96	6313	1.082	ppbv		94
23) Vinyl Acetate	2.460	43	16779	0.973	ppbv		98
24) 1,1-Dichloroethane	2.405	63	12062	1.071	ppbv		94
25) Ethyl Acetate	2.832	43	32108	1.041	ppbv		98
26) Hexane	2.819	57	14639	1.084	ppbv		99
27) Carbon Disulfide	2.149	76	14637	1.062	ppbv	#	30
28) Methyl tert-Butyl Ether	2.441	73	7236	1.092	ppbv	#	83
29) Chloroform	2.845	83	19509	1.016	ppbv		91
30) Cyclohexane	3.852	84	12269	1.084	ppbv		96
31) cis-1,2-Dichloroethene	2.716	61	13889	1.035	ppbv		97
32) 1,1,1-Trichloroethane	3.363	97	20745	1.005	ppbv		99
34) 2-Butanone	2.554	43	20940	1.064	ppbv		96
35) Carbon Tetrachloride	3.758	117	21497	1.016	ppbv		96
36) Benzene	3.648	78	27911	1.046	ppbv		99
37) 1,2-Dichloroethane	3.214	62	16159	1.035	ppbv		99
38) Trichloroethene	4.538	130	10809m	1.033	ppbv		
39) 1,2-Dichloropropane	4.311	63	10147	1.039	ppbv		91
40) 1,4-Dioxane	4.577	88	4616m	1.051	ppbv		
41) Tetrahydrofuran	3.052	42	11176	1.029	ppbv		96
42) Bromodichloromethane	4.480	83	22150	1.028	ppbv	#	98
43) Methyl Methacrylate	4.871	69	14821	1.046	ppbv		94
44) 2,2,4-Trimethylpentane	4.632	57	49203m	1.073	ppbv		
45) t-1,3-Dichloropropene	6.402	75	13149m	0.996	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043206.D
Acq On : 18 Nov 2025 11:10
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	15527	1.001	ppbv	#	95
47) 1,1,2-Trichloroethane	6.577	97	10369	0.995	ppbv	#	85
48) Dibromochloromethane	7.377	129	18560	1.041	ppbv		93
49) Bromoform	9.477	173	15858	1.004	ppbv		98
50) 4-Methyl-2-Pentanone	5.745	43	29560	1.067	ppbv		99
51) 2-Hexanone	7.428	43	22438	1.043	ppbv	#	98
52) Tetrachloroethene	8.215	164	10080	1.015	ppbv		90
53) Toluene	6.923	91	32951	1.036	ppbv		100
54) 1,2-Dibromoethane	7.645	107	15865	1.040	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.917	131	17535	1.046	ppbv		99
57) Chlorobenzene	8.914	112	24806	1.060	ppbv		98
58) Ethyl Benzene	9.344	91	46455	1.059	ppbv		96
59) m/p-Xylene	9.545	91	73461m	2.080	ppbv		
60) o-Xylene	9.956	91	37054	1.054	ppbv		97
61) Styrene	9.866	104	15730	1.023	ppbv		95
62) Isopropylbenzene	10.532	105	67163	1.068	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	23083	1.035	ppbv		97
64) n-propylbenzene	10.985	120	17289	1.070	ppbv		100
65) tert-Butylbenzene	11.526	119	61258	1.091	ppbv		99
66) Benzyl Chloride	11.610	91	5729	1.005	ppbv		96
67) sec-Butylbenzene	11.762	105	84989	1.084	ppbv		99
69) p-Isopropyltoluene	11.921	119	69993	1.054	ppbv		99
70) n-Butylbenzene	12.277	91	69323	1.076	ppbv		99
71) 2-Chlorotoluene	10.895	91	51452	1.065	ppbv		100
72) 4-Ethyltoluene	11.118	105	44403	1.037	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	38350	1.068	ppbv		91
74) 1,2,4-Trimethylbenzene	11.532	105	42051	1.073	ppbv	#	81
75) 1,3-Dichlorobenzene	11.600	146	24011	1.050	ppbv		98
76) 1,4-Dichlorobenzene	11.665	146	23543	1.029	ppbv		97
77) 1,2-Dichlorobenzene	11.940	146	24248	1.103	ppbv		98
78) Hexachloro-1,3-Butadiene	13.879	225	20489	1.116	ppbv		99
79) Naphthalene	13.507	128	36462	1.047	ppbv		95
80) Naphthalene,2-methyl-	14.455	142	7375	0.807	ppbv		95
81) 1,2,4-Trichlorobenzene	13.436	180	15785	1.014	ppbv		98

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

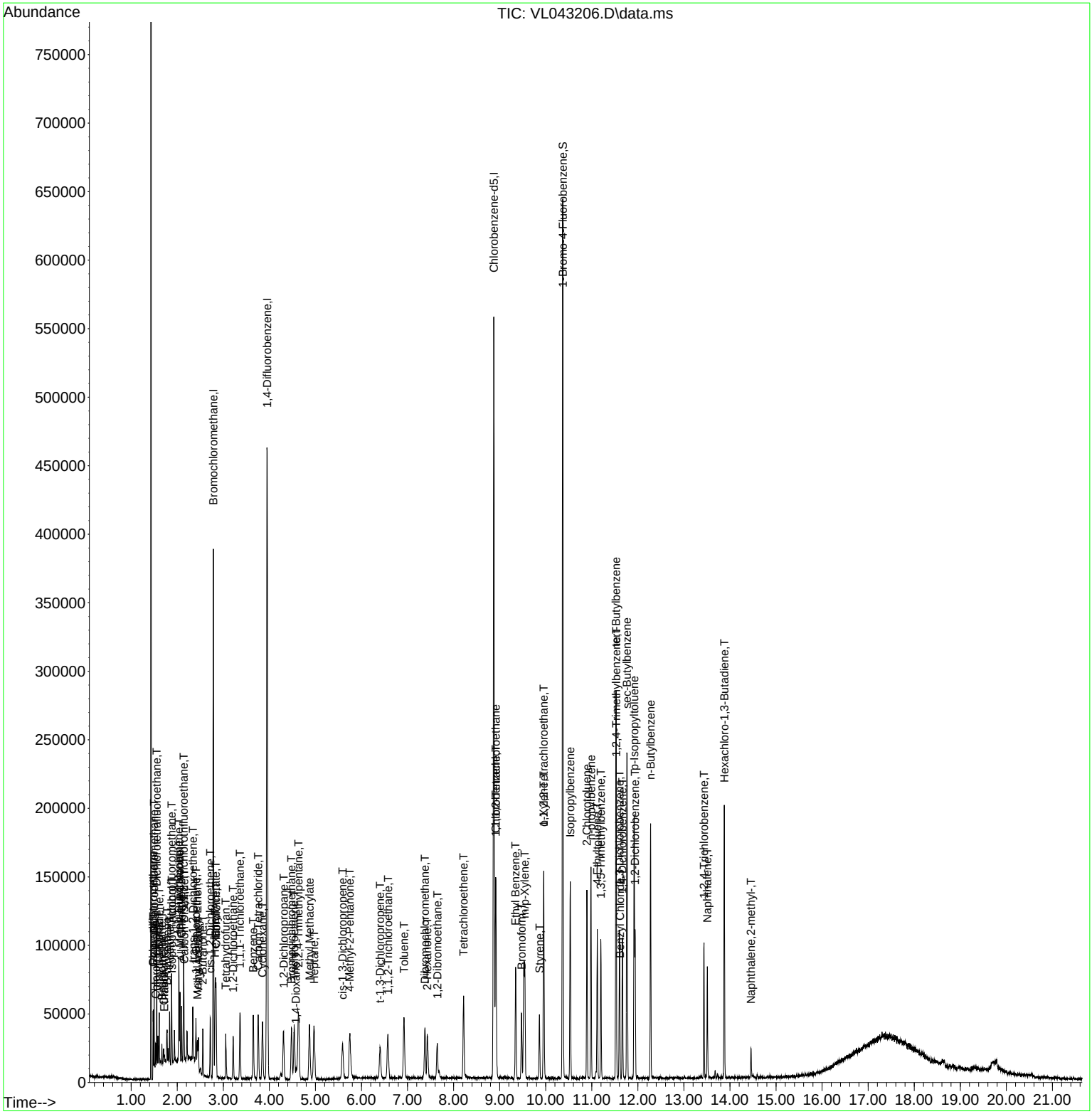
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043206.D
Acq On : 18 Nov 2025 11:10
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

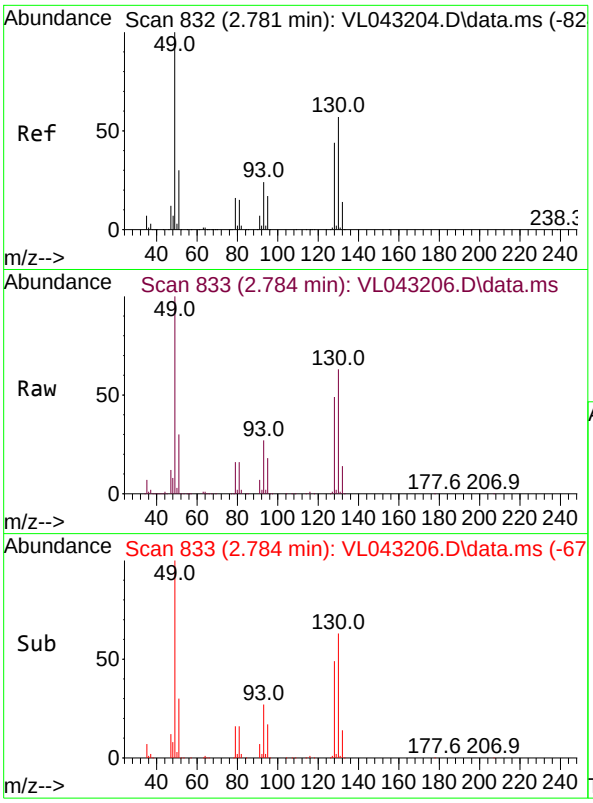
Quant Time: Nov 19 00:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

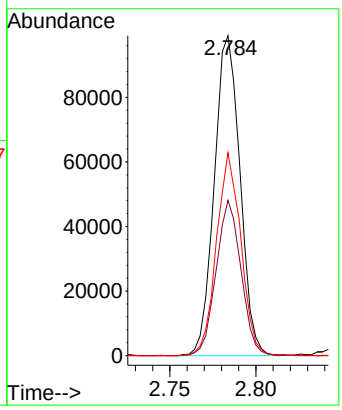




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 49 Resp: 10279

Ion	Ratio	Lower	Upper
49	100		
128	46.9	23.0	69.0
130	60.1	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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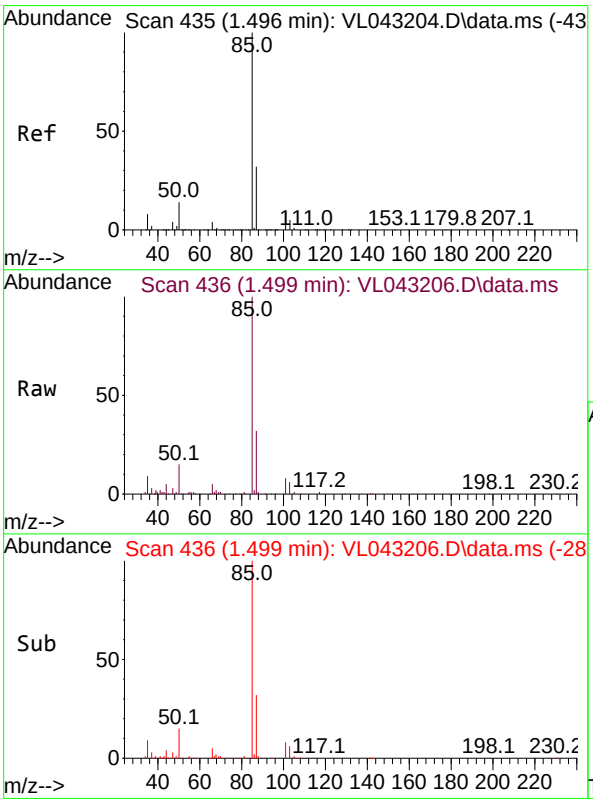
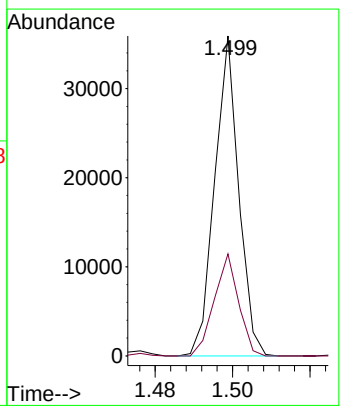
Supervised By :Mahesh Dadoda 11/19/2025

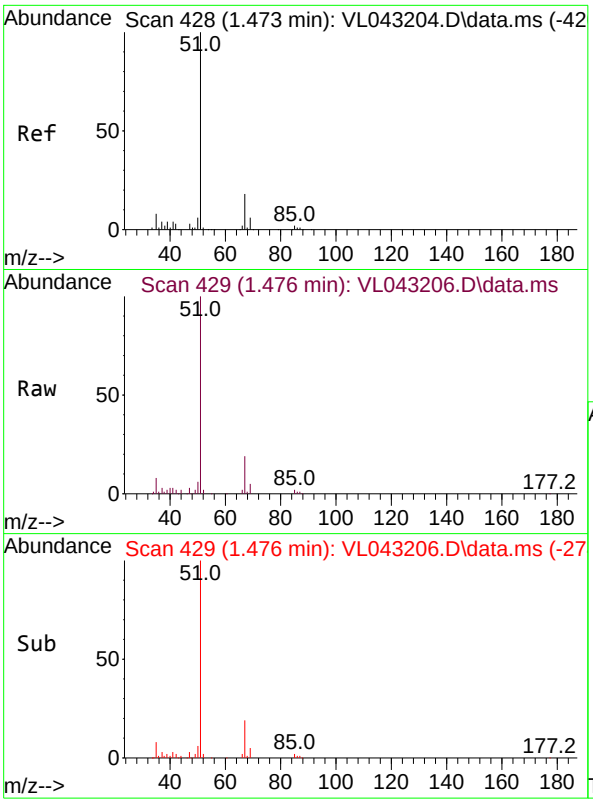


#2
Dichlorodifluoromethane
Concen: 1.067 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 85 Resp: 15474

Ion	Ratio	Lower	Upper
85	100		
87	31.9	25.4	38.2

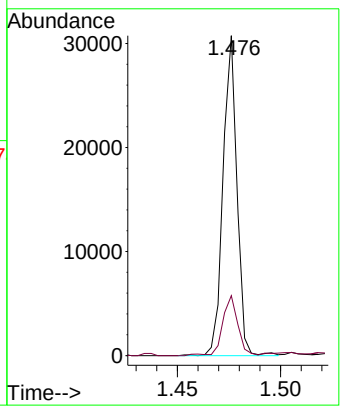




#3
Chlorodifluoromethane
Concen: 1.013 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 51 Resp: 1443

Ion	Ratio	Lower	Upper
51	100		
67	22.3	14.9	22.3#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/19/2025
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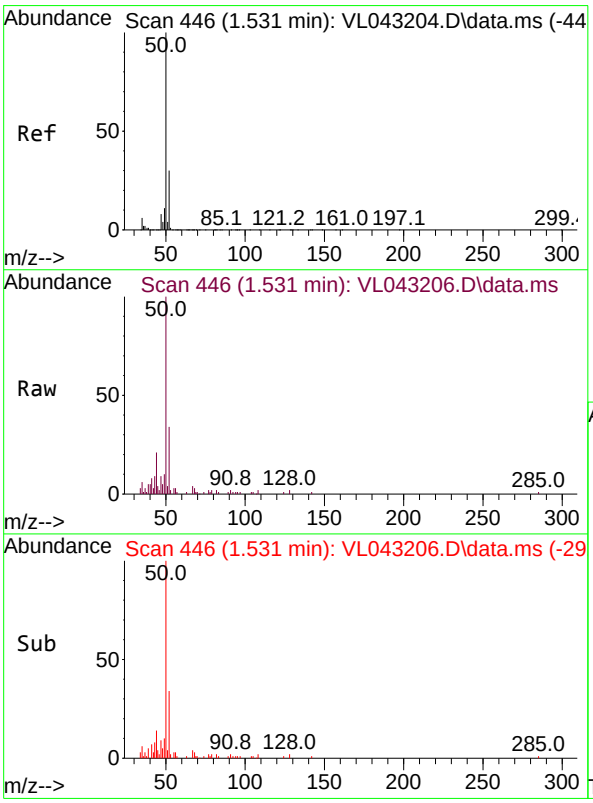
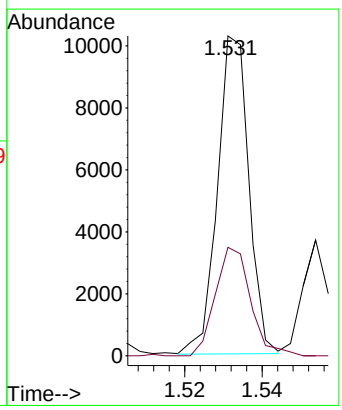
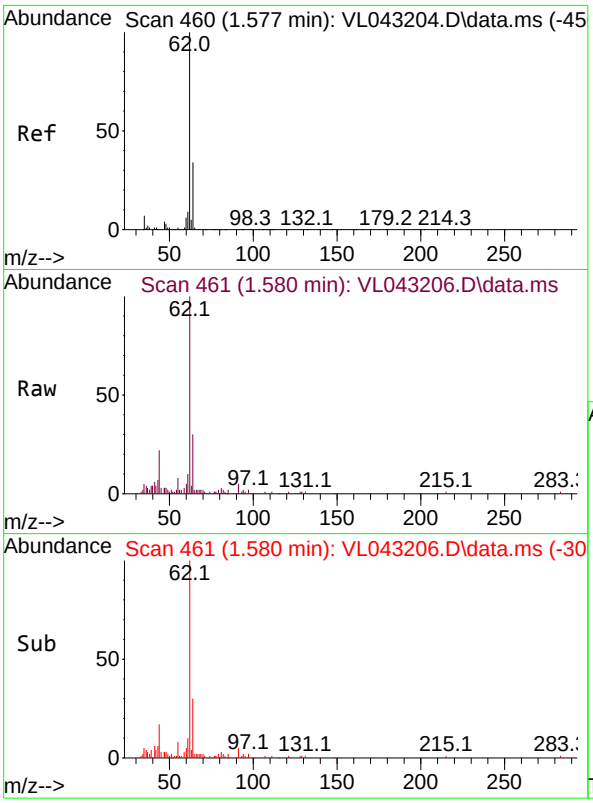


#4
Chloromethane
Concen: 1.061 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 50 Resp: 5751

Ion	Ratio	Lower	Upper
50	100		
52	34.2	24.1	36.1

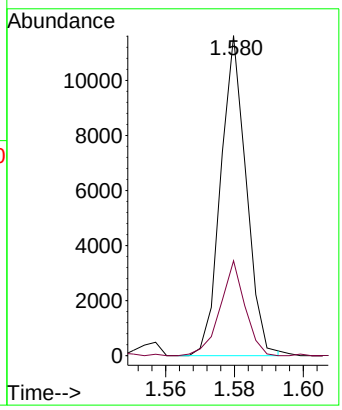




#5
Vinyl Chloride
Concen: 1.007 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 62 Resp: 596

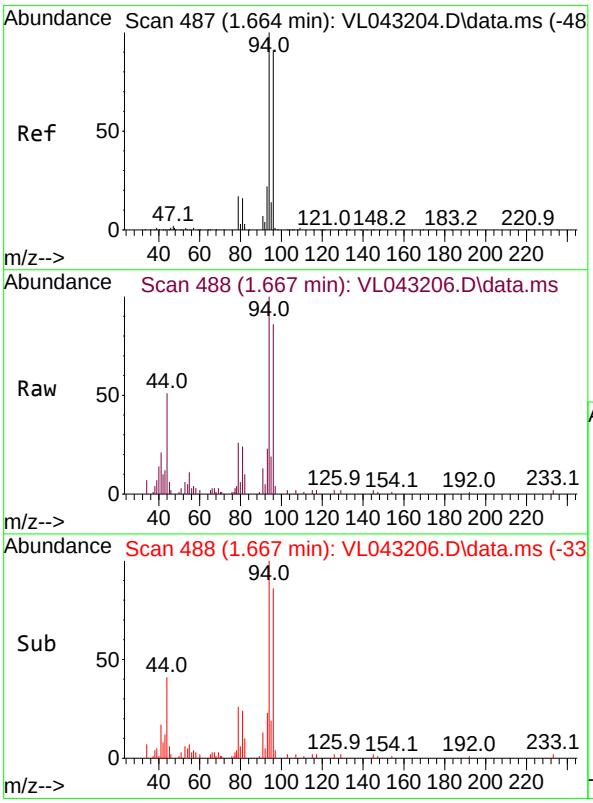
Ion	Ratio	Lower	Upper
62	100		
64	31.3	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

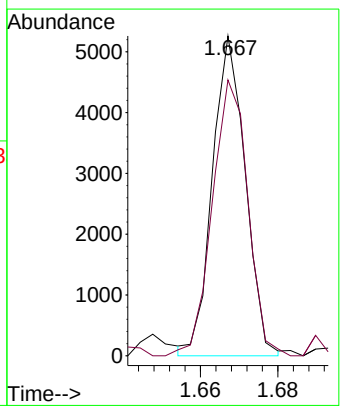
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

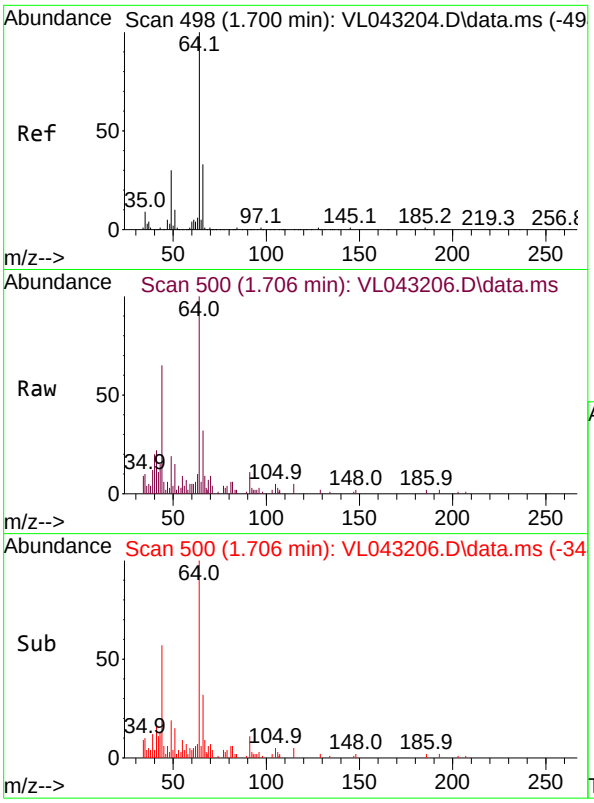


#6
Bromomethane
Concen: 1.080 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 94 Resp: 3104

Ion	Ratio	Lower	Upper
94	100		
96	85.7	72.9	109.3

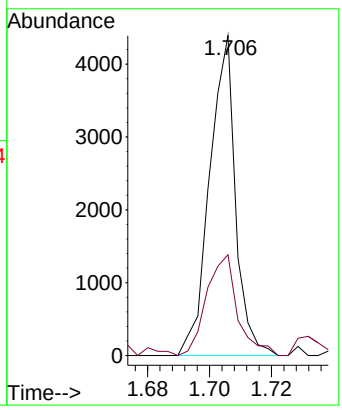




#7
Chloroethane
Concen: 1.104 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 64 Resp: 255

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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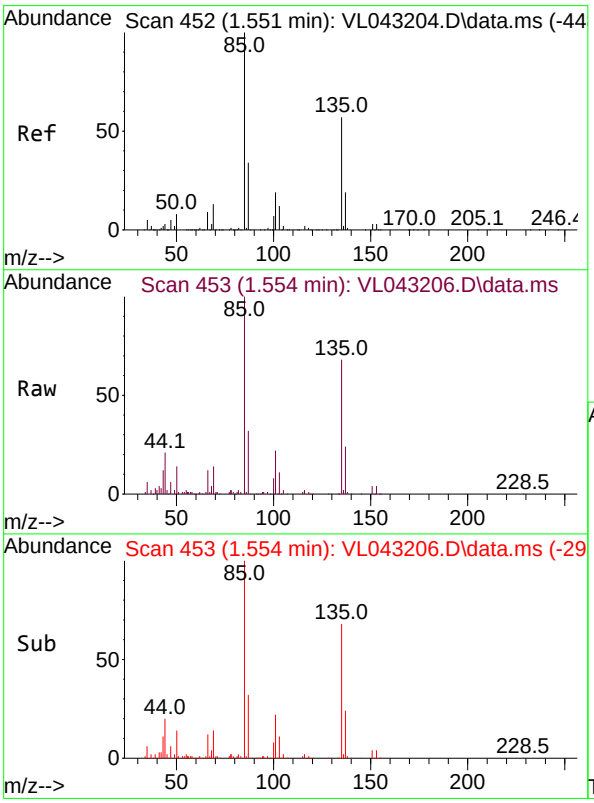
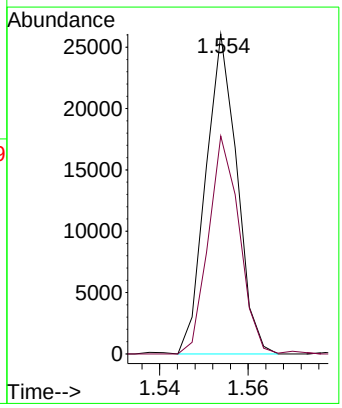
Supervised By :Mahesh Dadoda 11/19/2025

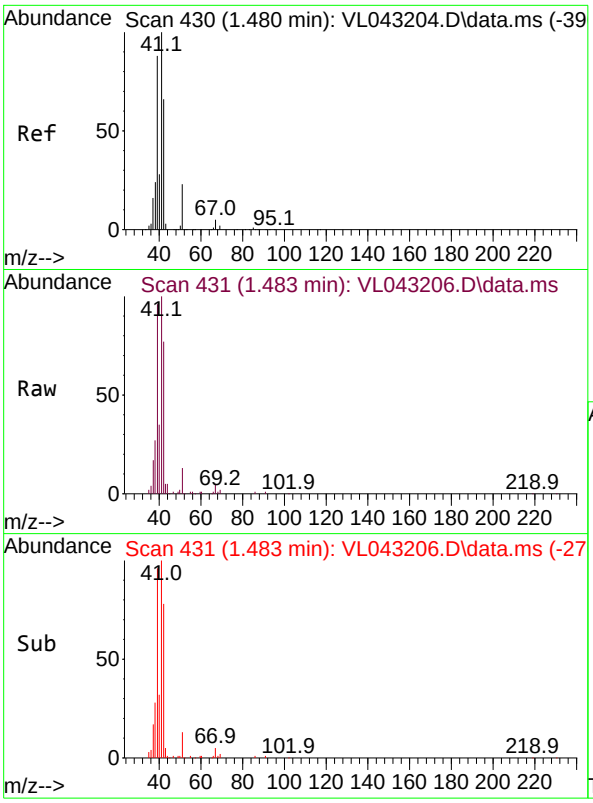


#8
Dichlorotetrafluoroethane
Concen: 1.058 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 85 Resp: 12759

Ion	Ratio	Lower	Upper
85	100		
135	67.7	52.6	79.0





#9
Propene
Concen: 0.929 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 41 Resp: 614

Ion	Ratio	Lower	Upper
41	100		
42	80.0	3.7	5.5#

Instrument :
MSVOA_L
ClientSampleId :
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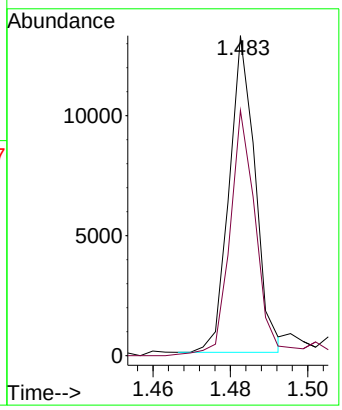
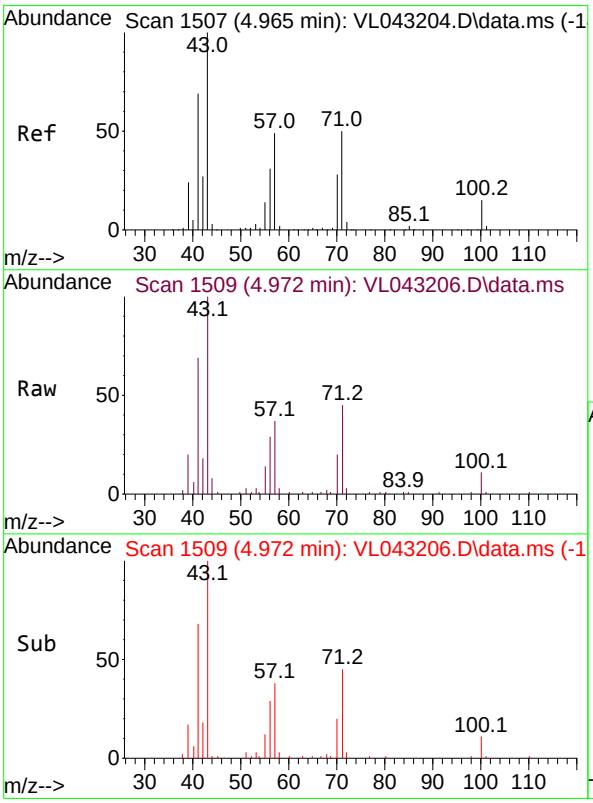
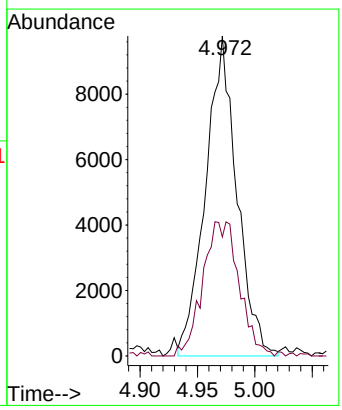


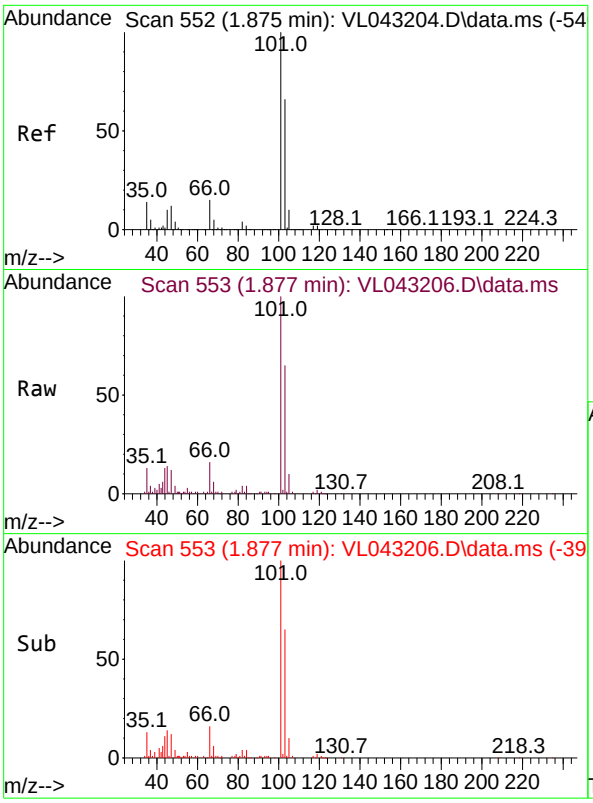


#10
Heptane
Concen: 1.022 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 18544

Ion	Ratio	Lower	Upper
43	100		
57	49.3	39.7	59.5

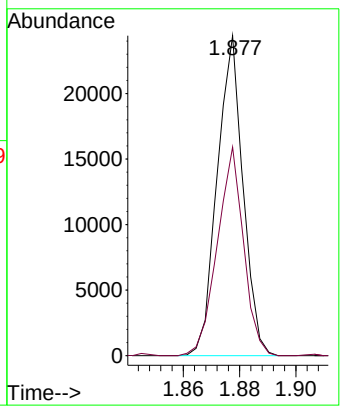




#11
Trichlorofluoromethane
Concen: 1.108 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:101 Resp: 1557

Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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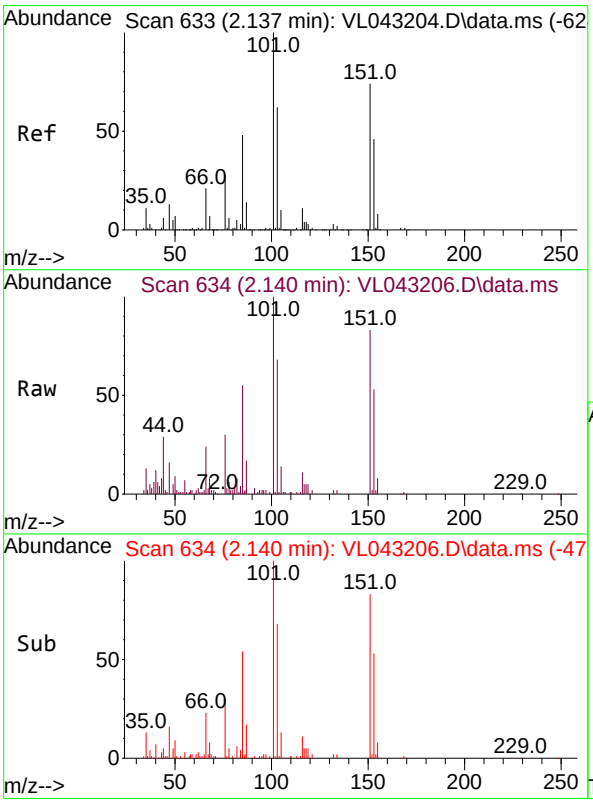
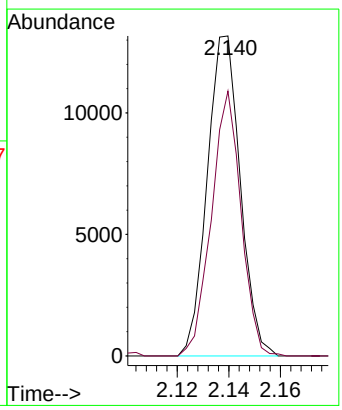
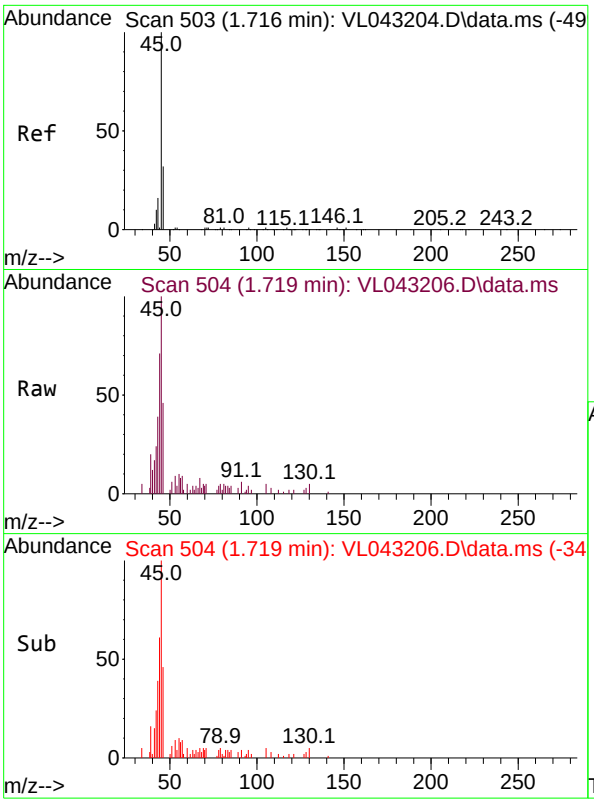


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.071 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:101 Resp: 11743

Ion	Ratio	Lower	Upper
101	100		
151	74.6	59.2	88.8

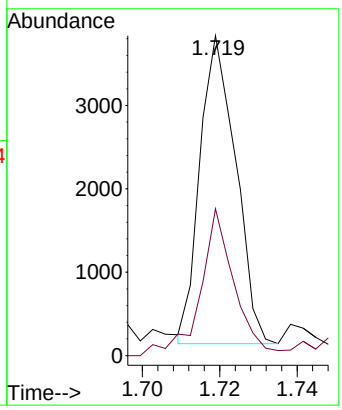




#13
Ethanol
Concen: 1.115 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 45 Resp: 237

Ion	Ratio	Lower	Upper
45	100		
46	57.0	15.0	59.8



Instrument :
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ClientSampleId :
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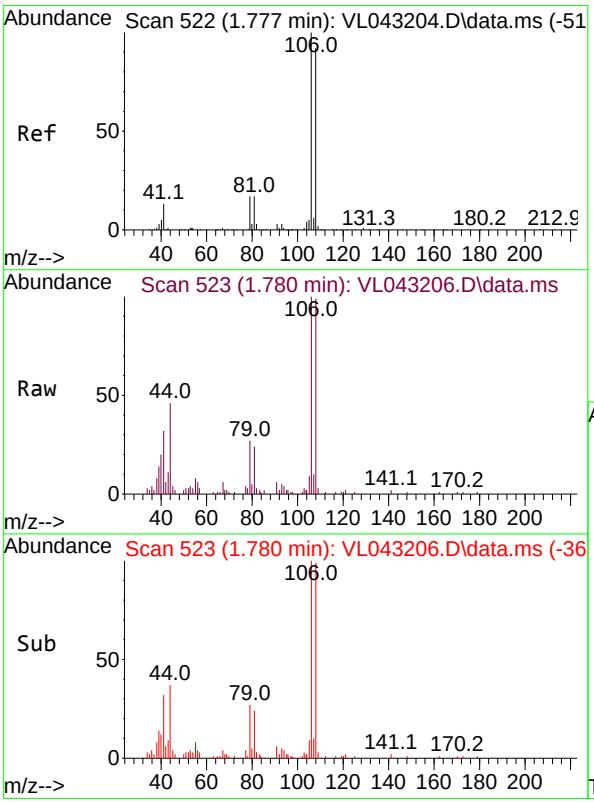
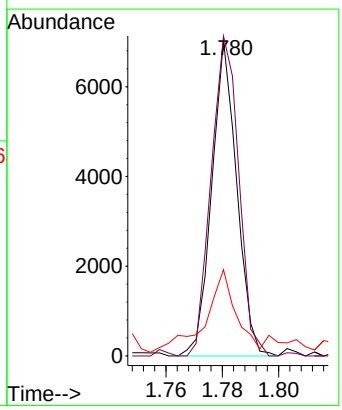
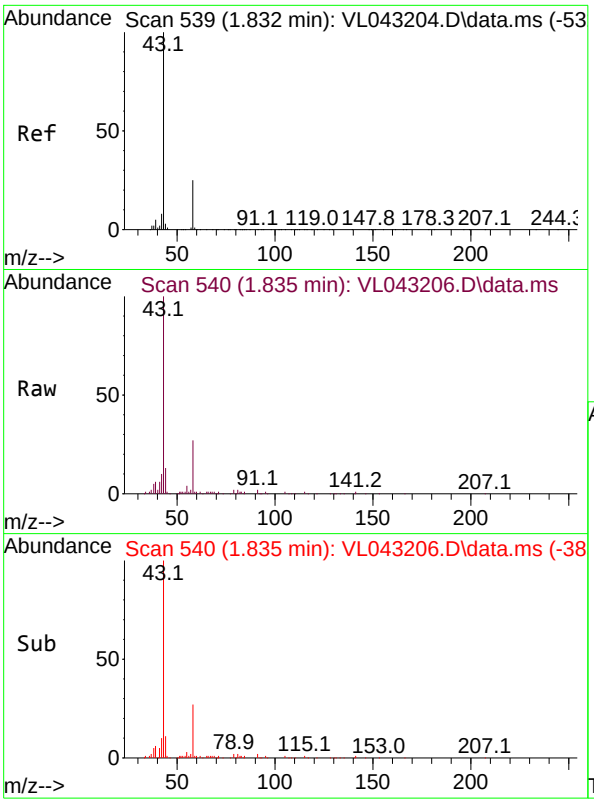


#14
Bromoethene
Concen: 1.033 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:108 Resp: 4345

Ion	Ratio	Lower	Upper
108	100		
106	114.0	88.9	133.3
79	39.2	16.5	24.7#

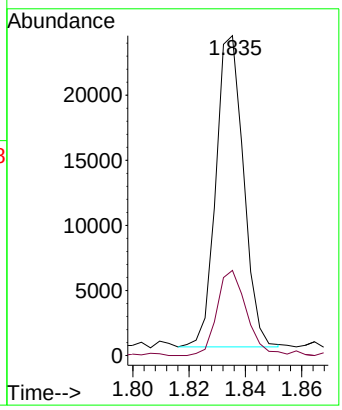




#15
Acetone
Concen: 1.145 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 1635

Ion	Ratio	Lower	Upper
43	100		
58	30.9	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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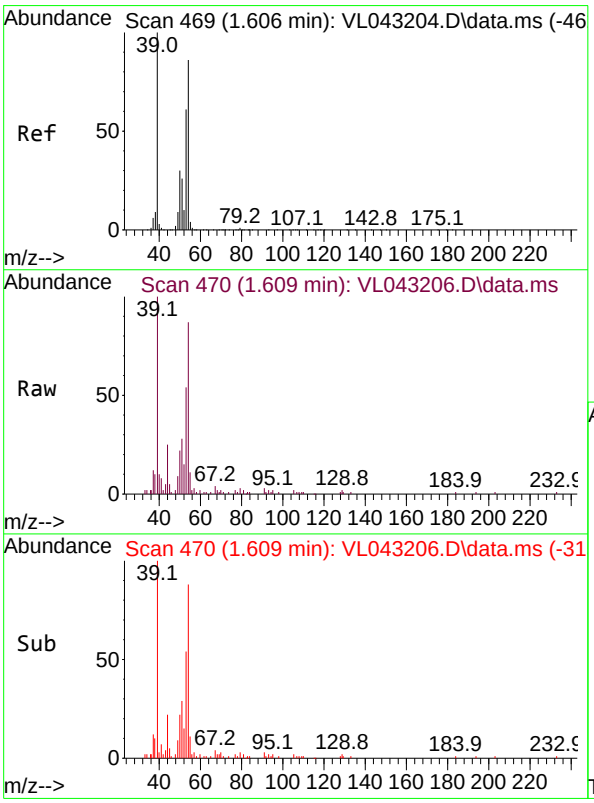
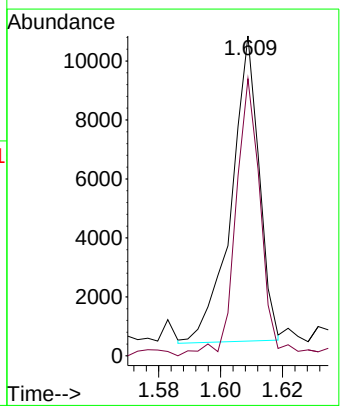
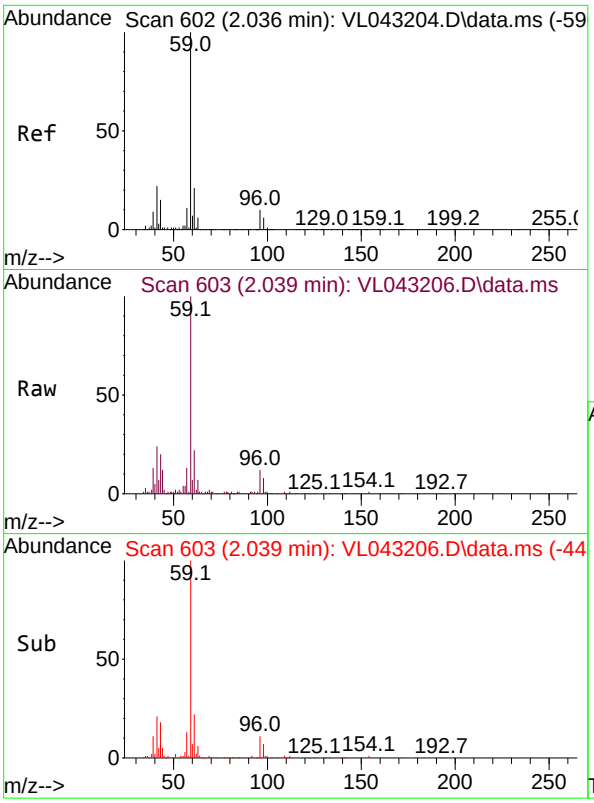


#16
1,3-Butadiene
Concen: 1.016 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 39 Resp: 6469

Ion	Ratio	Lower	Upper
39	100		
54	77.8	59.4	89.2

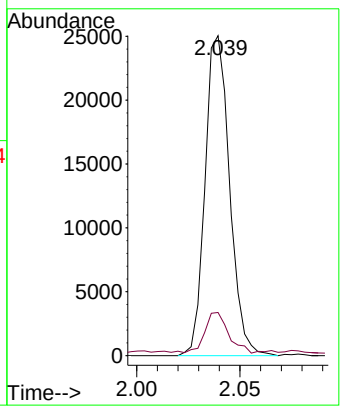




#17
tert-Butyl alcohol
Concen: 1.104 ppbv
RT: 2.039 min Scan# 6(
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 59 Resp: 2070

Ion	Ratio	Lower	Upper
59	100		
57	14.1	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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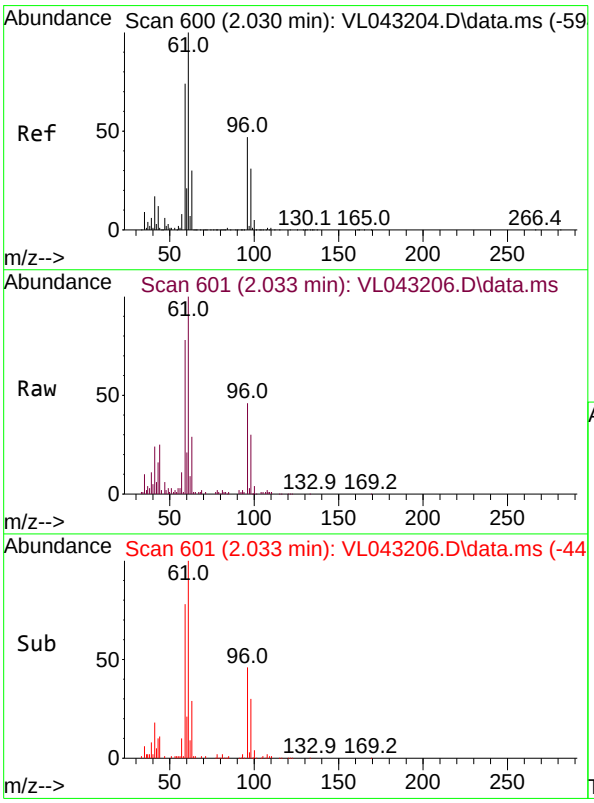
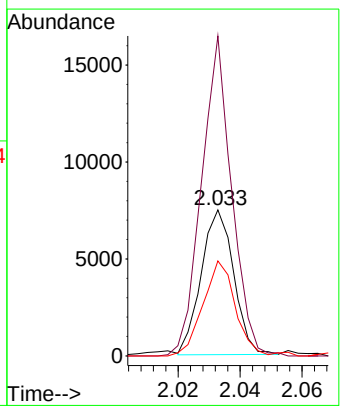
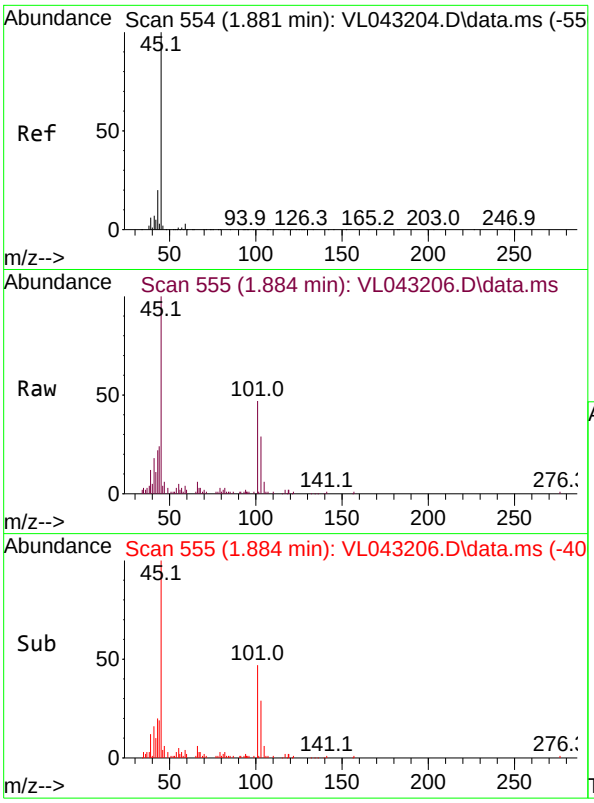


#18
1,1-Dichloroethene
Concen: 1.067 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 96 Resp: 5447

Ion	Ratio	Lower	Upper
96	100		
61	219.3	170.6	255.8
98	63.7	52.2	78.4

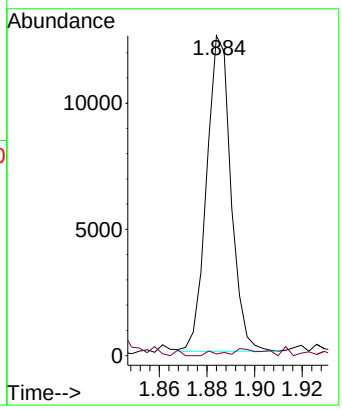




#19
Isopropyl Alcohol
Concen: 1.097 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 45 Resp: 884

Ion	Ratio	Lower	Upper
45	100		
58	4.0	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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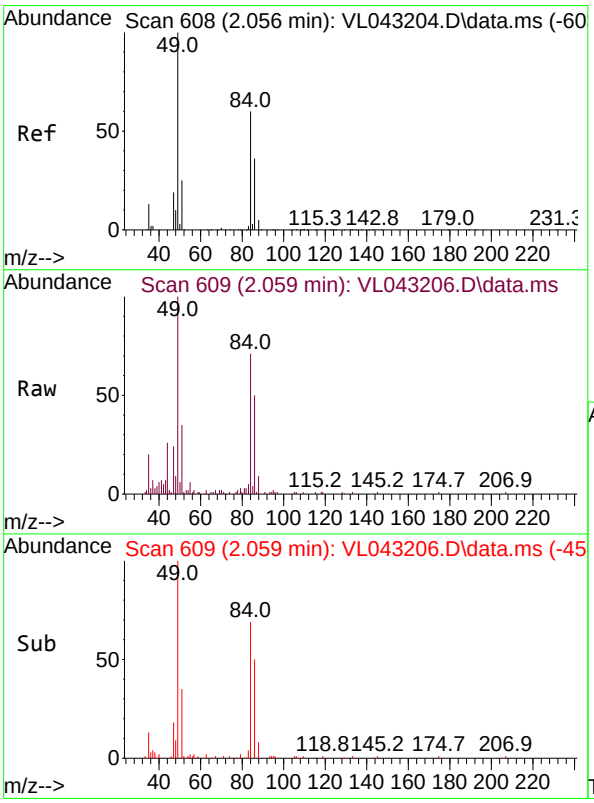
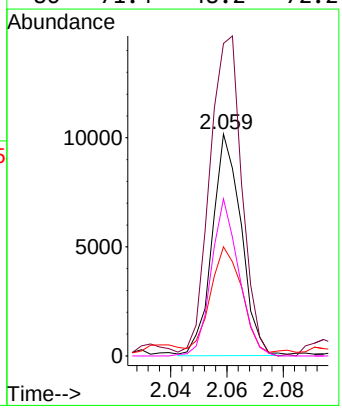
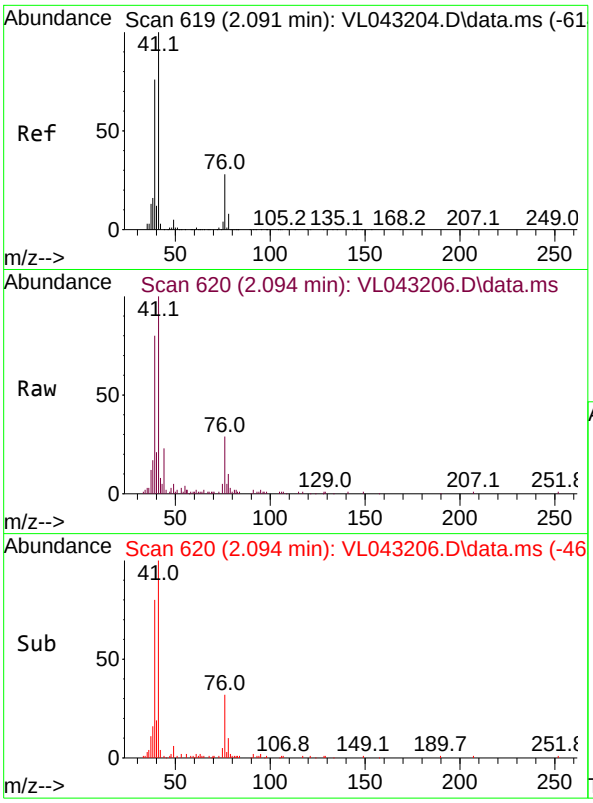


#20
Methylene Chloride
Concen: 1.030 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 84 Resp: 7297

Ion	Ratio	Lower	Upper
84	100		
49	142.0	132.9	199.3
51	47.3	34.8	52.2
86	71.4	48.2	72.2

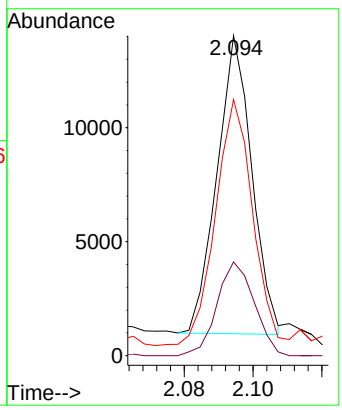




#21
Allyl Chloride
Concen: 0.957 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 41 Resp: 919

Ion	Ratio	Lower	Upper
41	100		
76	33.5	22.1	33.1#
39	91.7	61.0	91.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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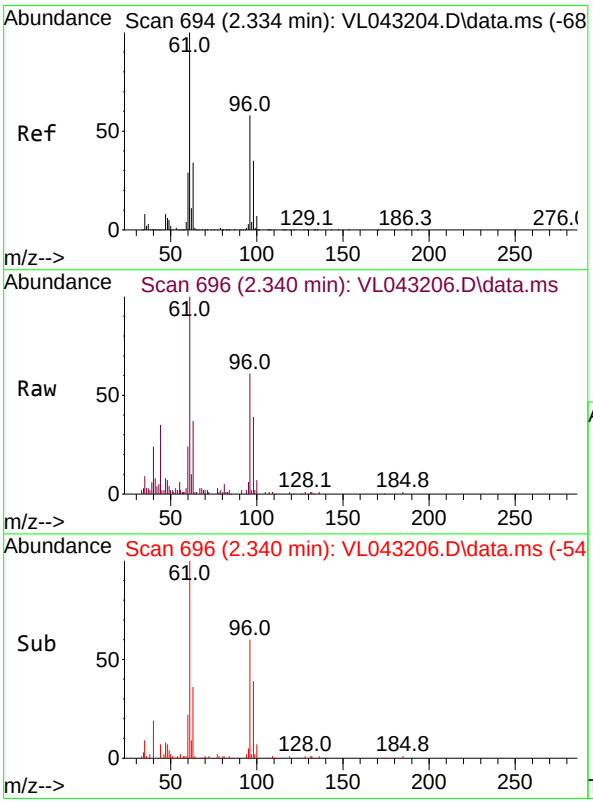
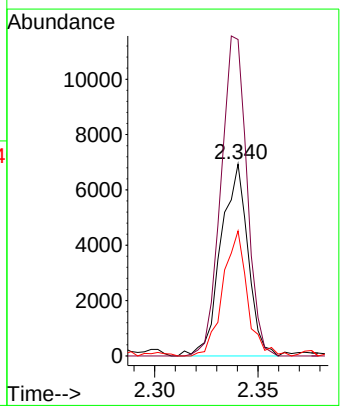
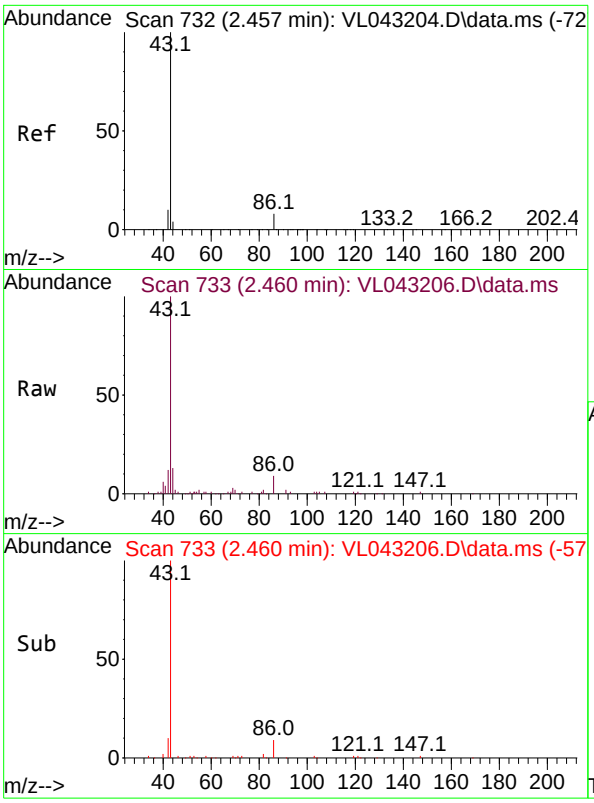


#22
trans-1,2-Dichloroethene
Concen: 1.082 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 96 Resp: 6313

Ion	Ratio	Lower	Upper
96	100		
61	165.0	139.0	208.6
98	65.1	49.4	74.2

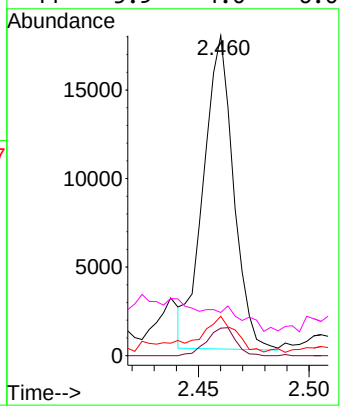




#23
Vinyl Acetate
Concen: 0.973 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 1677

Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.2	9.2
42	10.4	8.0	12.0
44	5.9	4.0	6.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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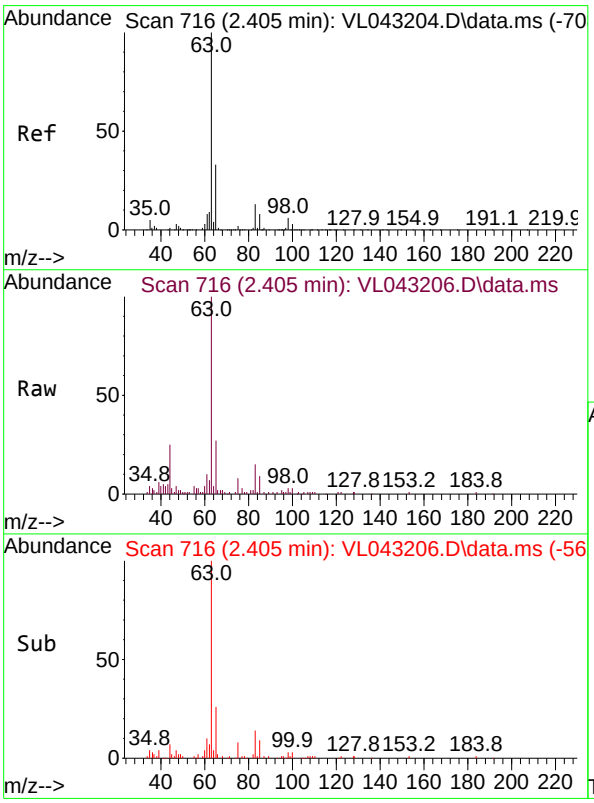
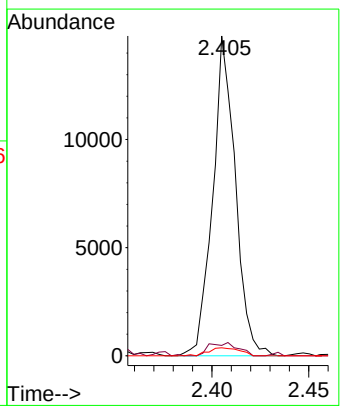
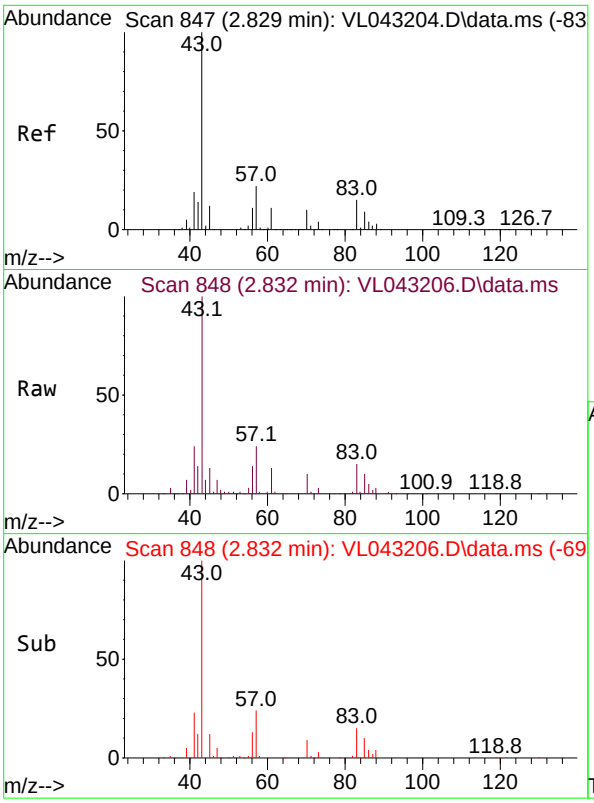


#24
1,1-Dichloroethane
Concen: 1.071 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 63 Resp: 12062

Ion	Ratio	Lower	Upper
63	100		
98	2.9	2.8	8.4
100	2.5	1.3	3.9

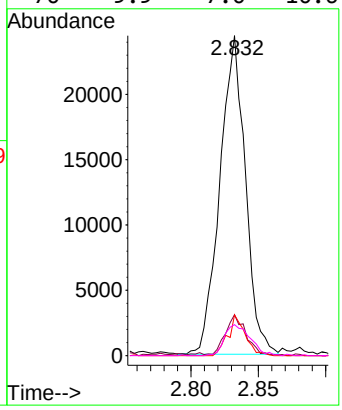




#25
Ethyl Acetate
Concen: 1.041 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 3210

Ion	Ratio	Lower	Upper
43	100		
45	11.1	8.1	12.1
61	8.7	7.0	10.4
70	9.9	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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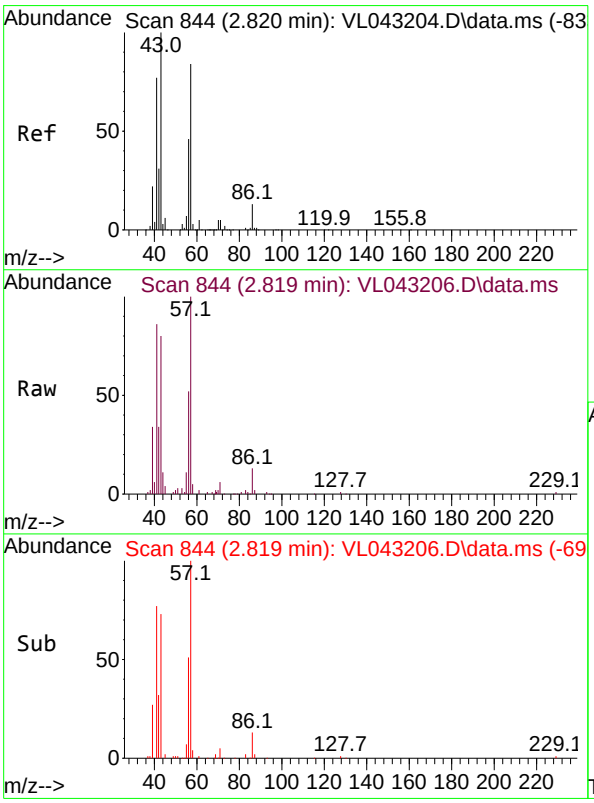
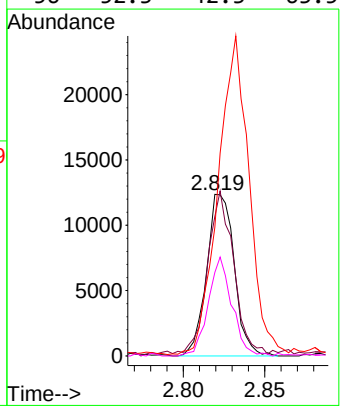
Supervised By :Mahesh Dadoda 11/19/2025

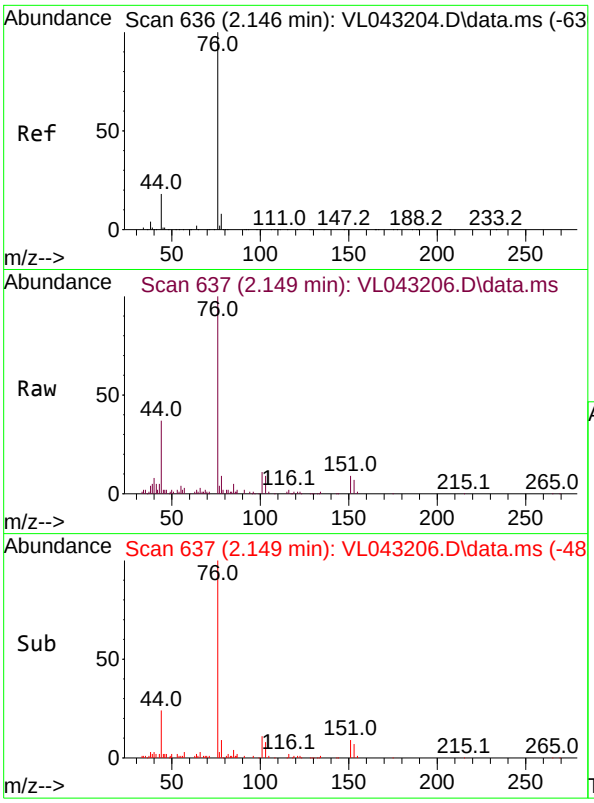


#26
Hexane
Concen: 1.084 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 57 Resp: 14639

Ion	Ratio	Lower	Upper
57	100		
41	96.8	74.6	111.8
43	222.8	179.0	268.4
56	52.3	42.3	63.5





#27
Carbon Disulfide
Concen: 1.062 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 76 Resp: 1463

Ion	Ratio	Lower	Upper
76	100		
44	69.6	16.1	24.1#
78	14.8	9.6	14.4#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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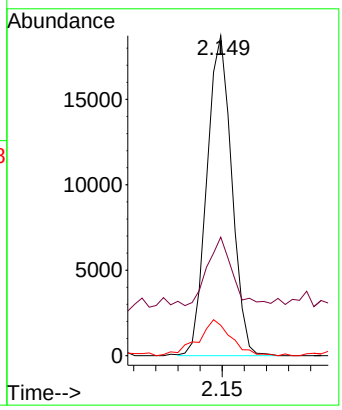
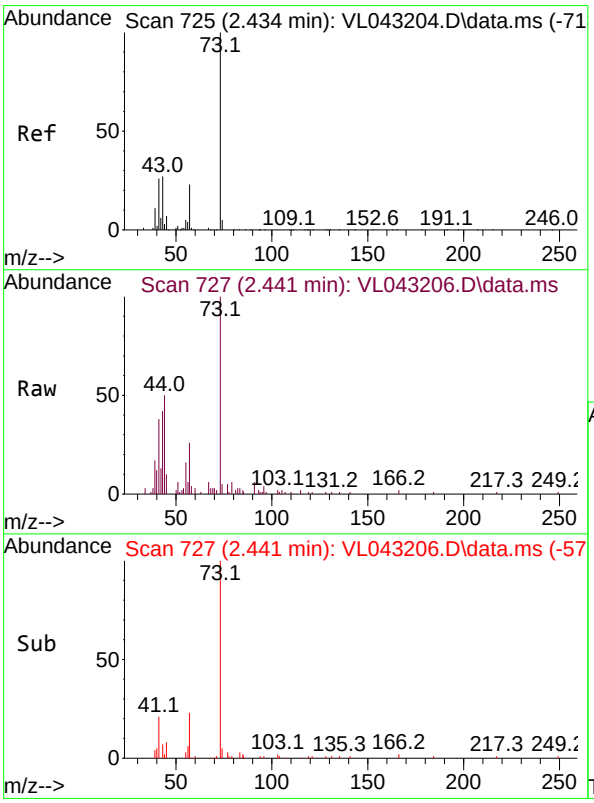
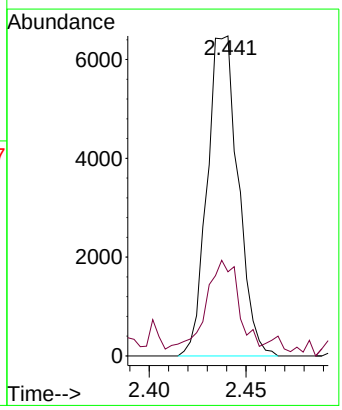


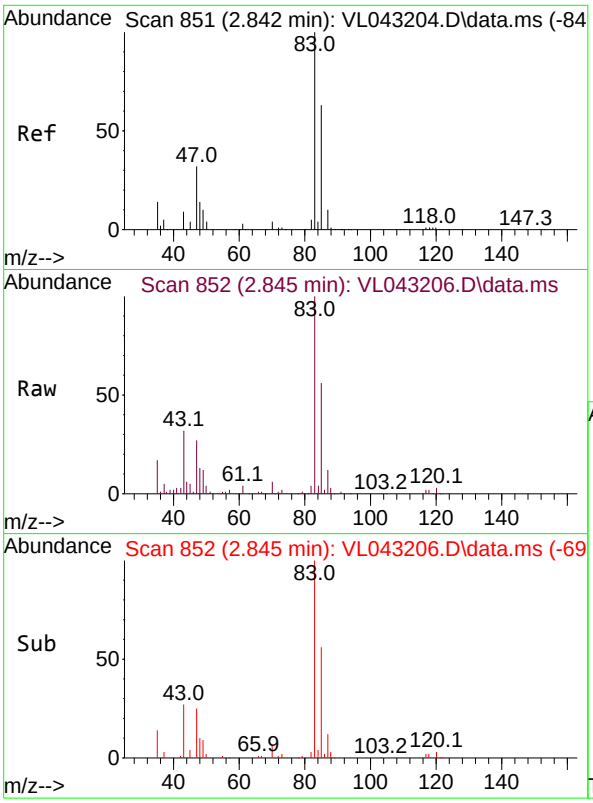


#28
Methyl tert-Butyl Ether
Concen: 1.092 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 73 Resp: 7236

Ion	Ratio	Lower	Upper
73	100		
57	33.1	19.8	29.8#

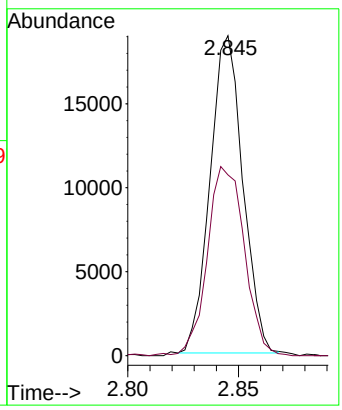




#29
Chloroform
Concen: 1.016 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 83 Resp: 1950

Ion	Ratio	Lower	Upper
83	100		
85	56.3	50.5	75.7



Instrument :
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ClientSampleId :
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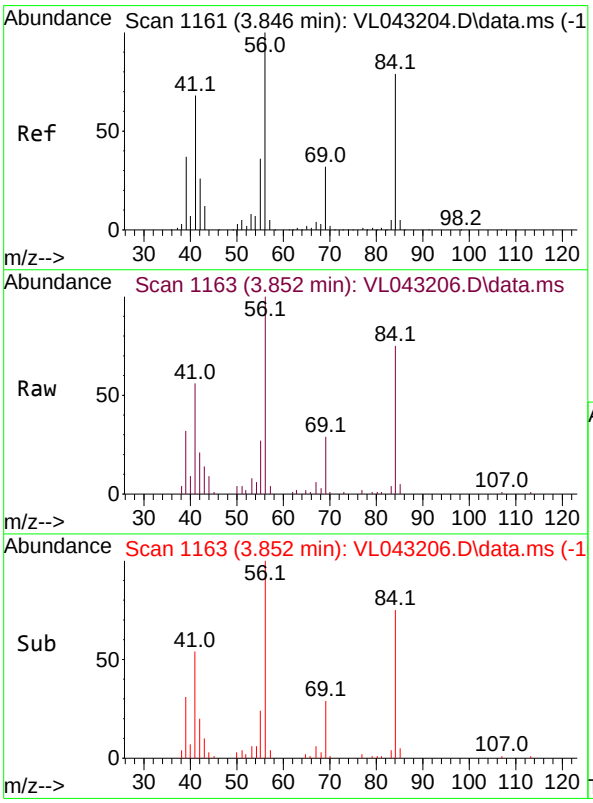
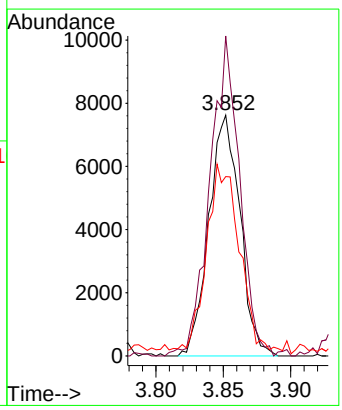
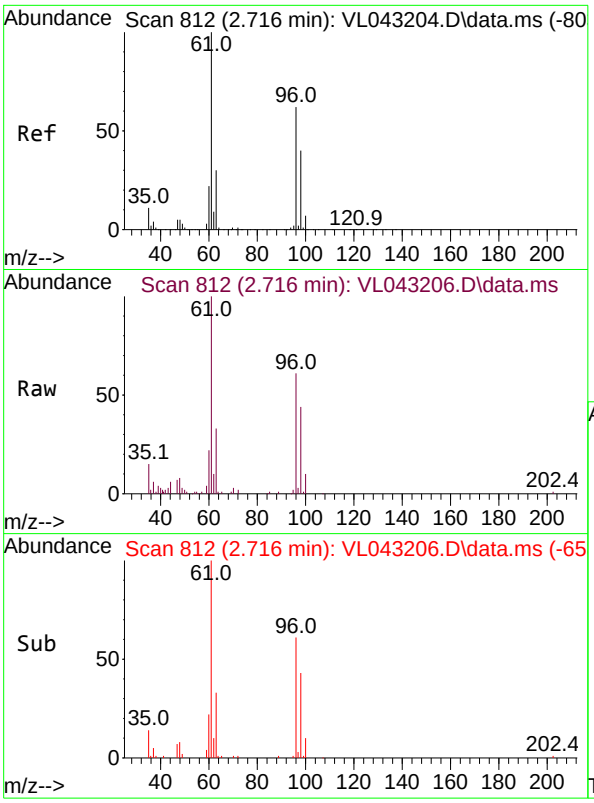


#30
Cyclohexane
Concen: 1.084 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 84 Resp: 12269

Ion	Ratio	Lower	Upper
84	100		
56	127.5	104.7	157.1
41	90.4	69.0	103.6

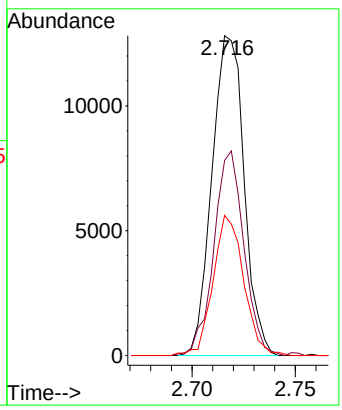




#31
cis-1,2-Dichloroethene
Concen: 1.035 ppbv
RT: 2.716 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 61 Resp: 1388

Ion	Ratio	Lower	Upper
61	100		
96	60.4	49.3	73.9
98	43.0	32.1	48.1



Instrument :
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ClientSampleId :
VSTDICC001

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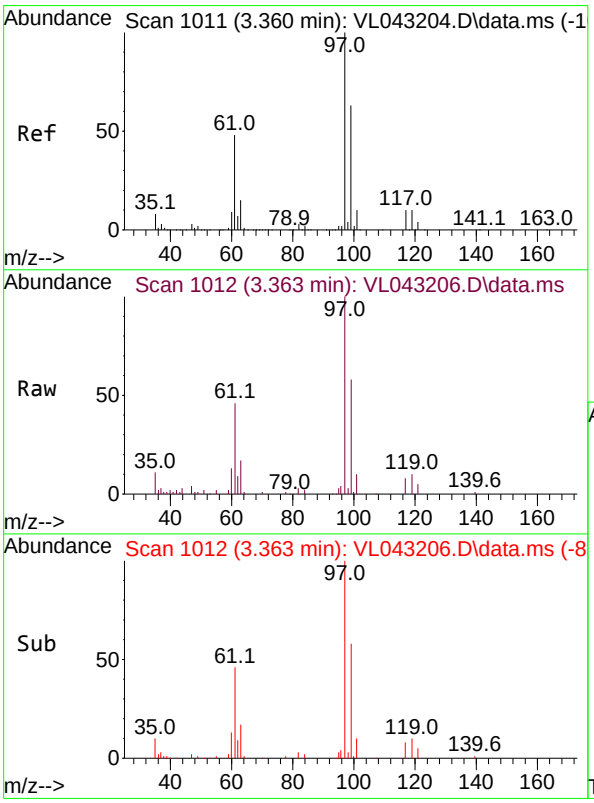
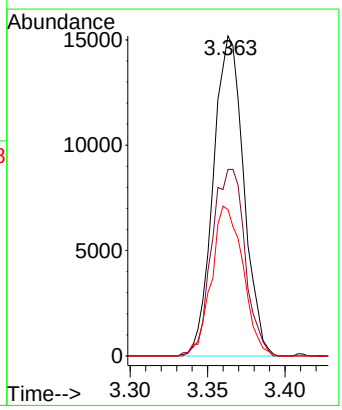
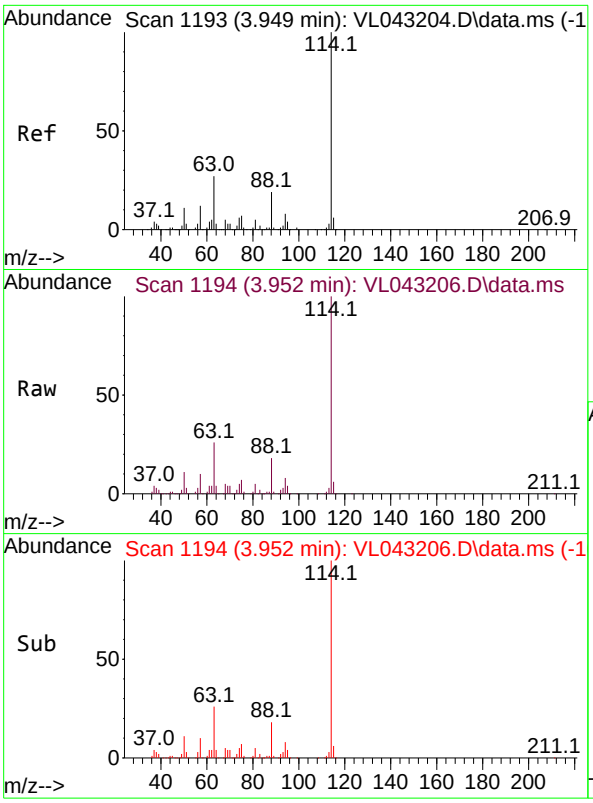


#32
1,1,1-Trichloroethane
Concen: 1.005 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 97 Resp: 20745

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.3	75.5
61	48.3	38.9	58.3

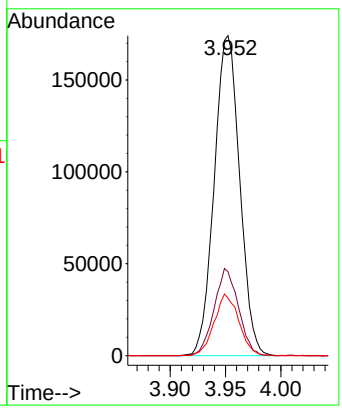




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:114 Resp: 27873

Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.0	31.6
88	18.6	14.9	22.3



Instrument :
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ClientSampleId :
VSTDICC001

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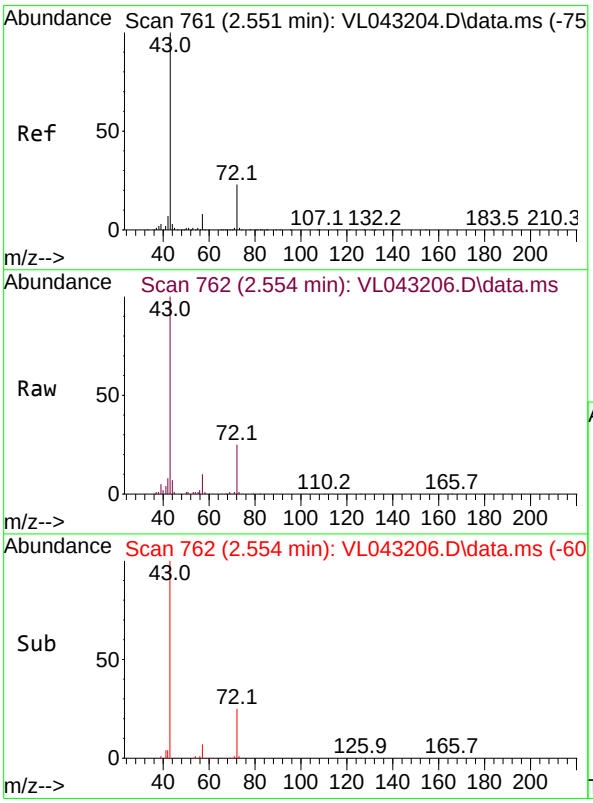
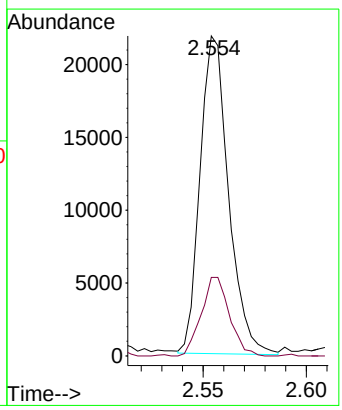
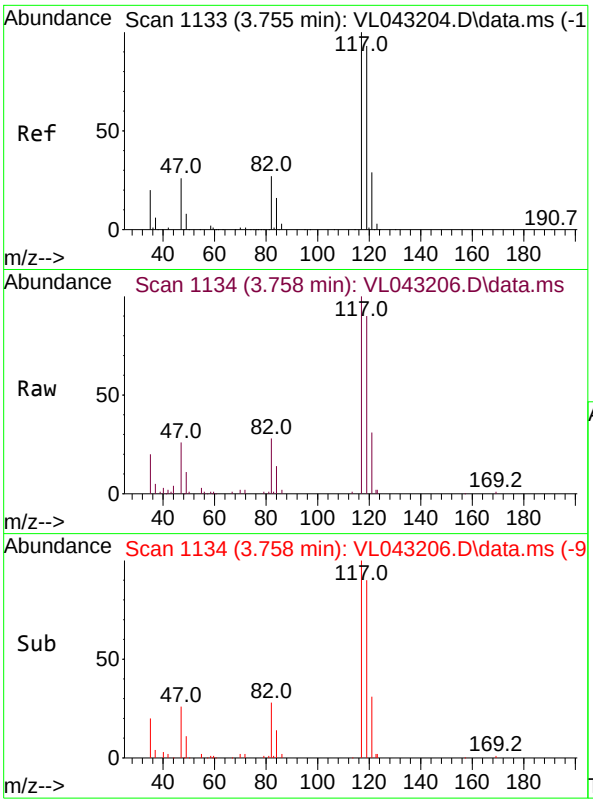


#34
2-Butanone
Concen: 1.064 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 20940

Ion	Ratio	Lower	Upper
43	100		
72	24.7	18.1	27.1

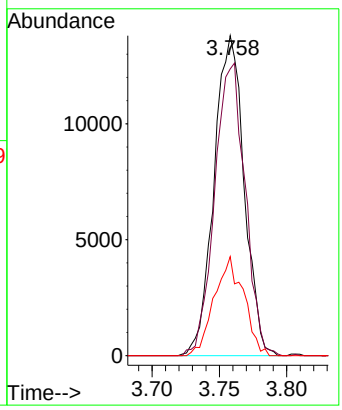




#35
Carbon Tetrachloride
Concen: 1.016 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:117 Resp: 2149

Ion	Ratio	Lower	Upper
117	100		
119	89.6	74.6	112.0
121	30.9	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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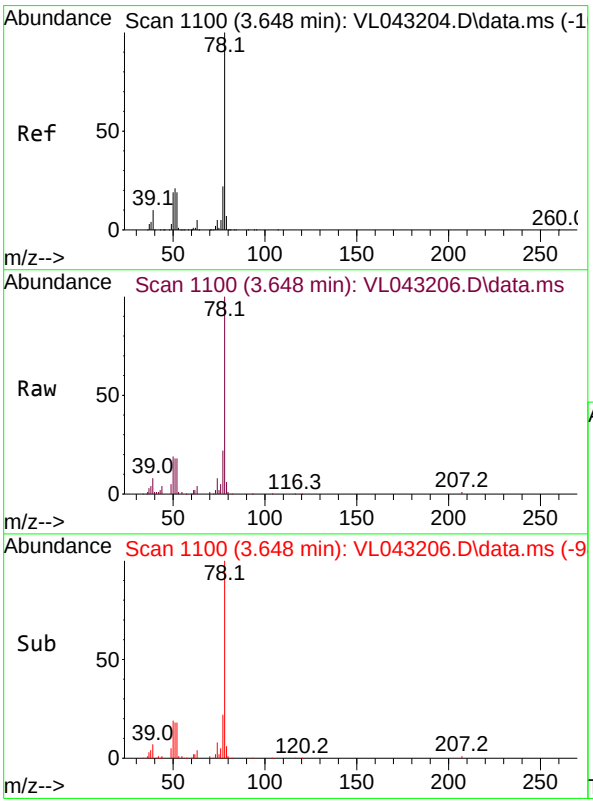
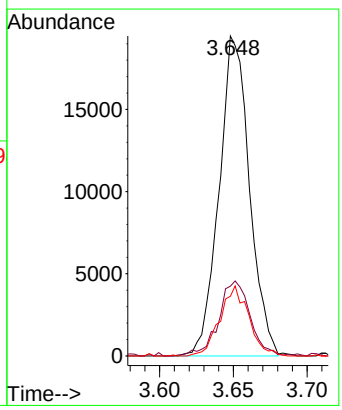
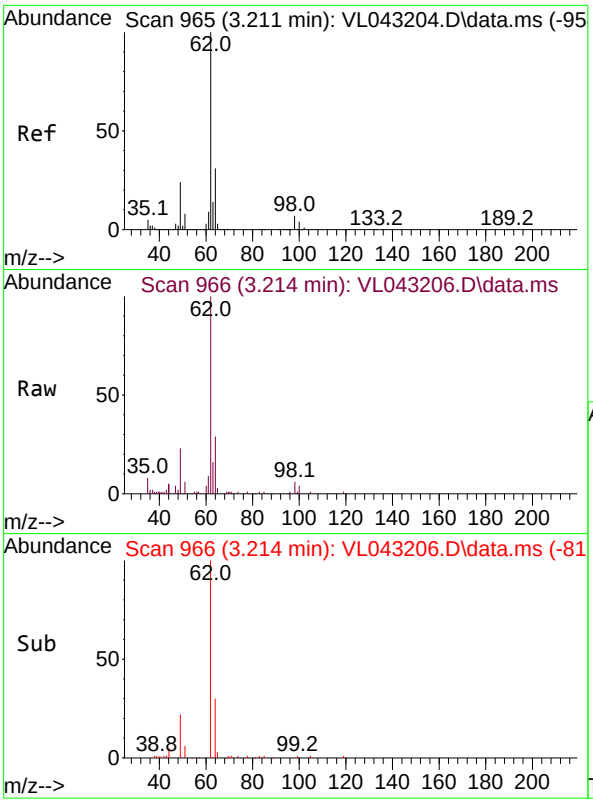


#36
Benzene
Concen: 1.046 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 78 Resp: 27911

Ion	Ratio	Lower	Upper
78	100		
77	21.5	17.5	26.3
50	18.6	15.5	23.3

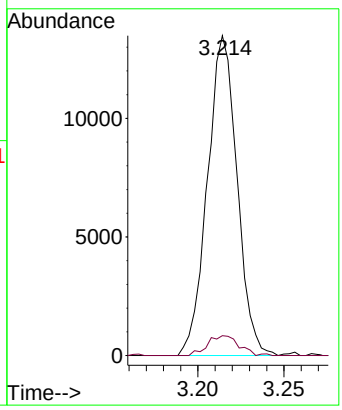




#37
1,2-Dichloroethane
Concen: 1.035 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 62 Resp: 1615

Ion	Ratio	Lower	Upper
62	100		
98	6.7	5.5	8.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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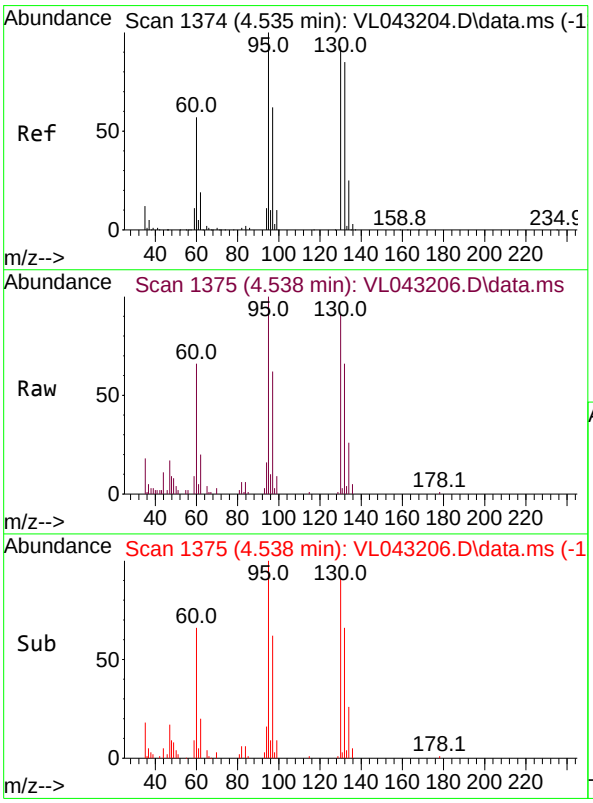
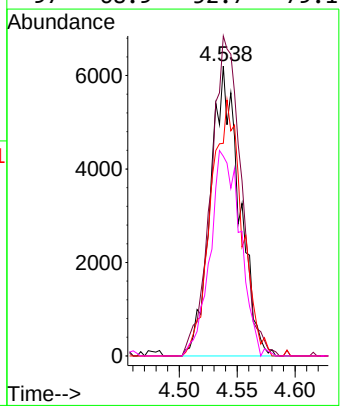
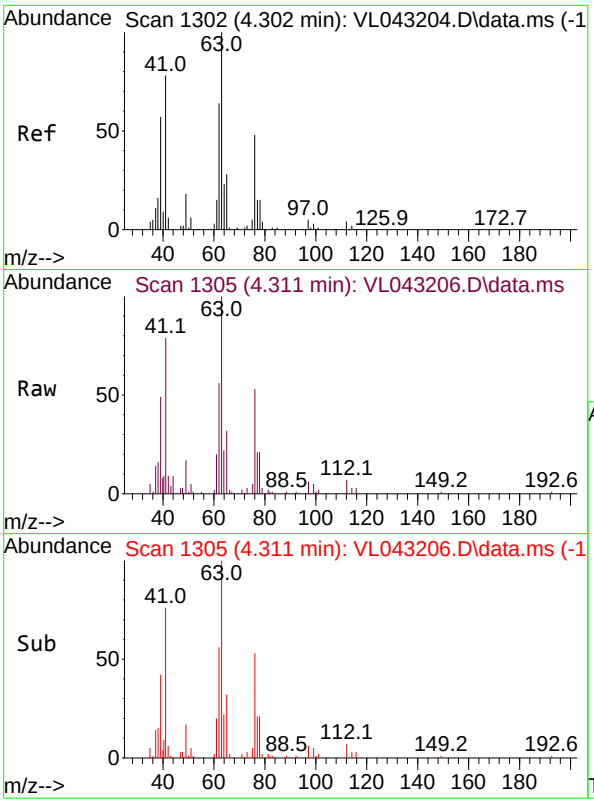


#38
Trichloroethene
Concen: 1.033 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:130 Resp: 10809

Ion	Ratio	Lower	Upper
130	100		
95	110.4	85.7	128.5
132	73.3	73.4	110.0#
97	68.9	52.7	79.1





#39
1,2-Dichloropropane
Concen: 1.039 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 63 Resp: 1014

Ion	Ratio	Lower	Upper
63	100		
41	70.5	62.6	93.8
62	56.2	51.0	76.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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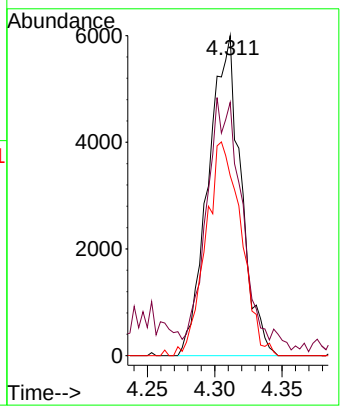
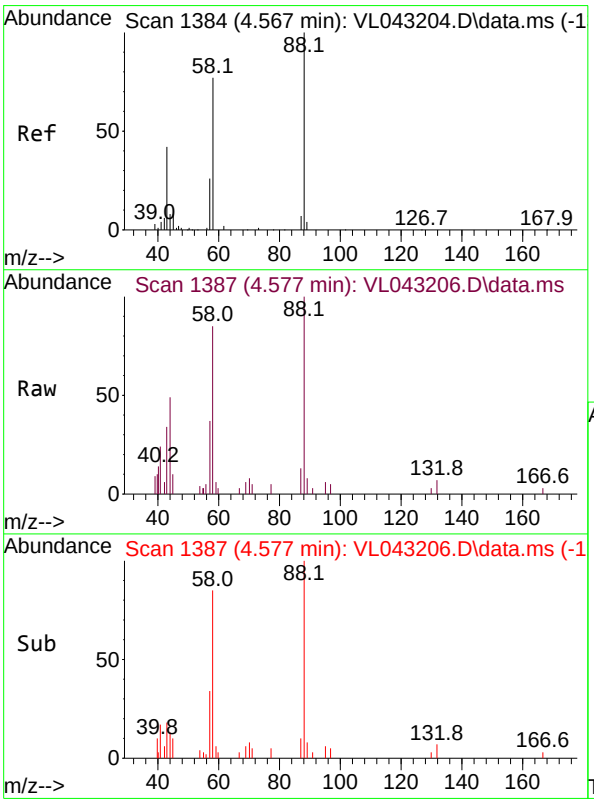
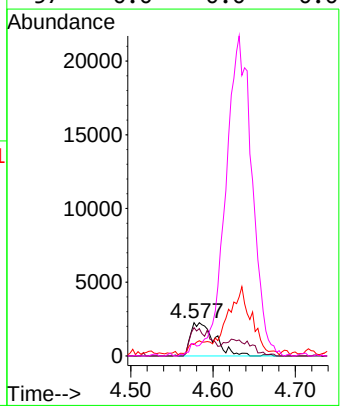


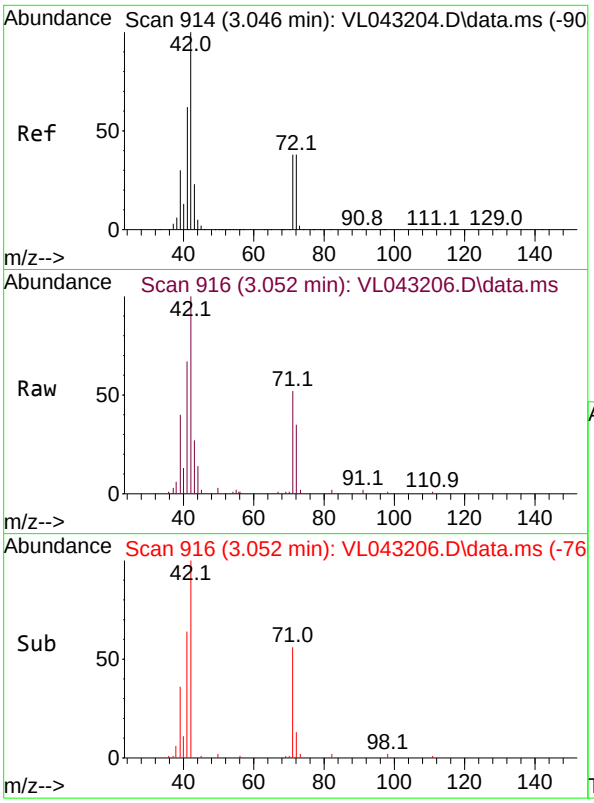


#40
1,4-Dioxane
Concen: 1.051 ppbv m
RT: 4.577 min Scan# 1387
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 88 Resp: 4616

Ion	Ratio	Lower	Upper
88	100		
58	69.6	63.0	94.6
43	0.0	32.5	48.7#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 1.029 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 42 Resp: 1117

Ion	Ratio	Lower	Upper
42	100		
72	40.2	30.6	46.0
71	40.4	30.5	45.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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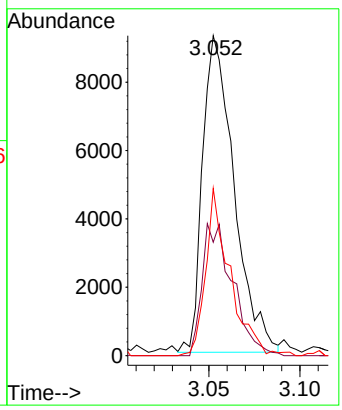
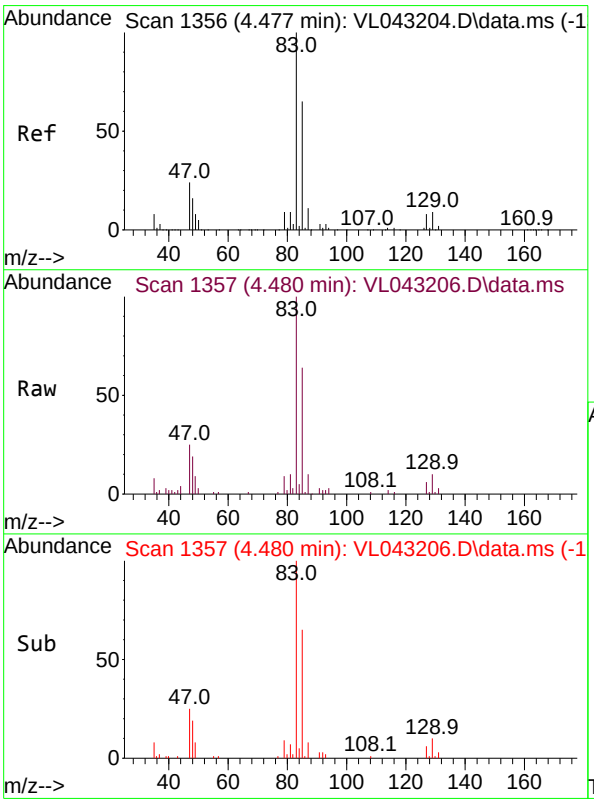
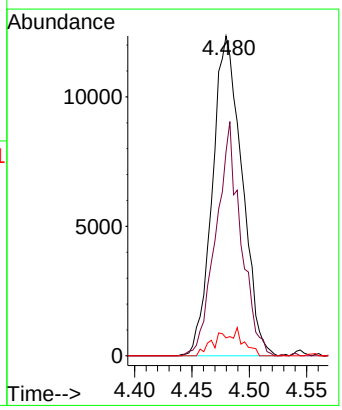


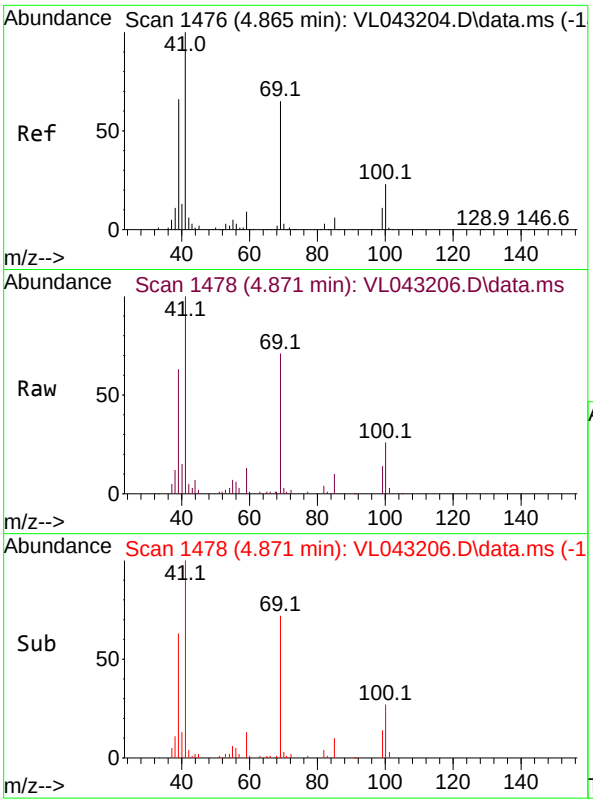


#42
Bromodichloromethane
Concen: 1.028 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 83 Resp: 22150

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.7	77.5
127	5.6	6.3	9.5#

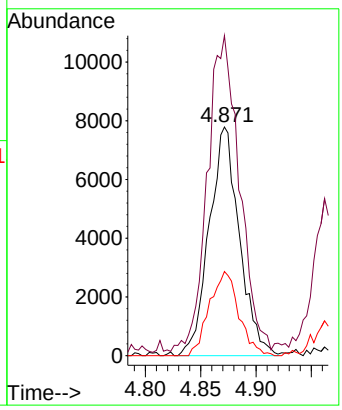




#43
Methyl Methacrylate
Concen: 1.046 ppbv
RT: 4.871 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 69 Resp: 1482

Ion	Ratio	Lower	Upper
69	100		
41	148.1	126.7	190.1
100	35.7	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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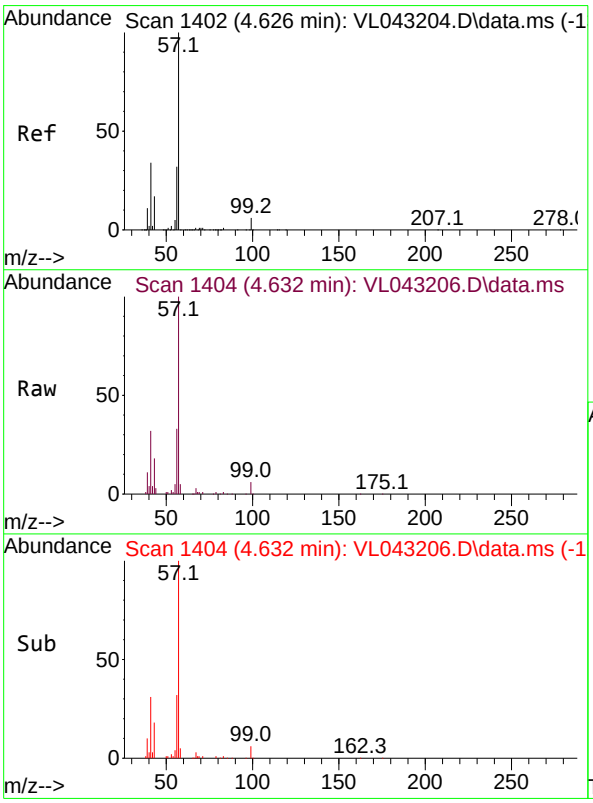
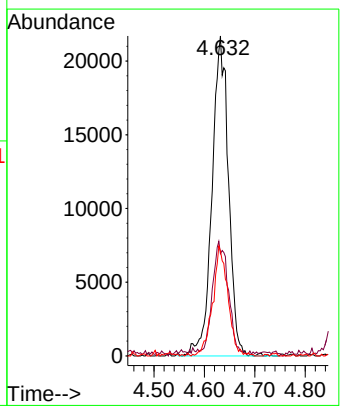
Supervised By :Mahesh Dadoda 11/19/2025

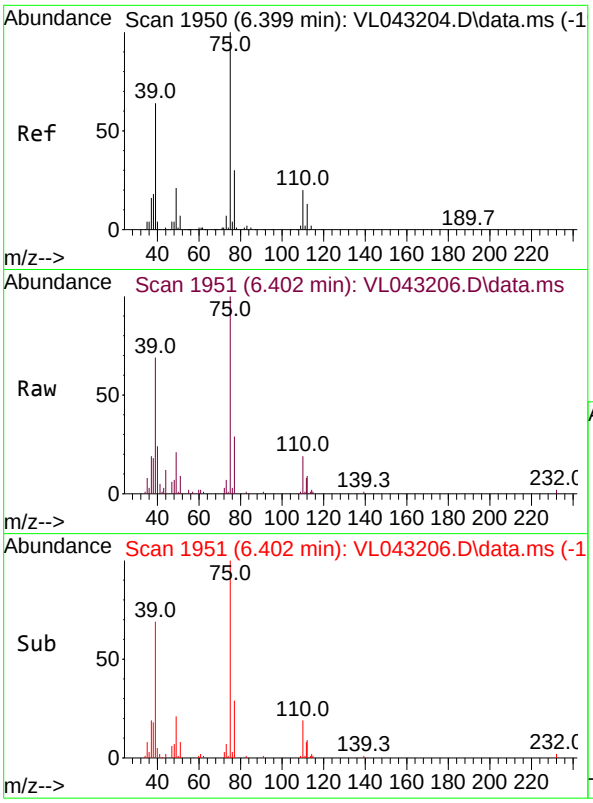


#44
2,2,4-Trimethylpentane
Concen: 1.073 ppbv m
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 57 Resp: 49203

Ion	Ratio	Lower	Upper
57	100		
41	37.7	28.0	42.0
56	32.0	25.6	38.4

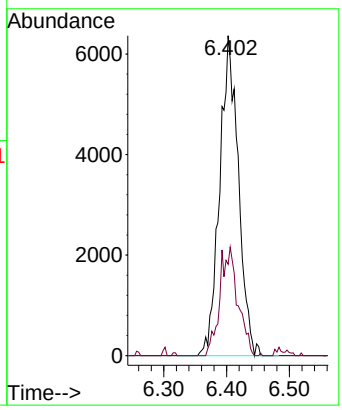




#45
t-1,3-Dichloropropene
Concen: 0.996 ppbv m
RT: 6.402 min Scan# 19
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 75 Resp: 13149

Ion	Ratio	Lower	Upper
75	100		
77	28.5	24.3	36.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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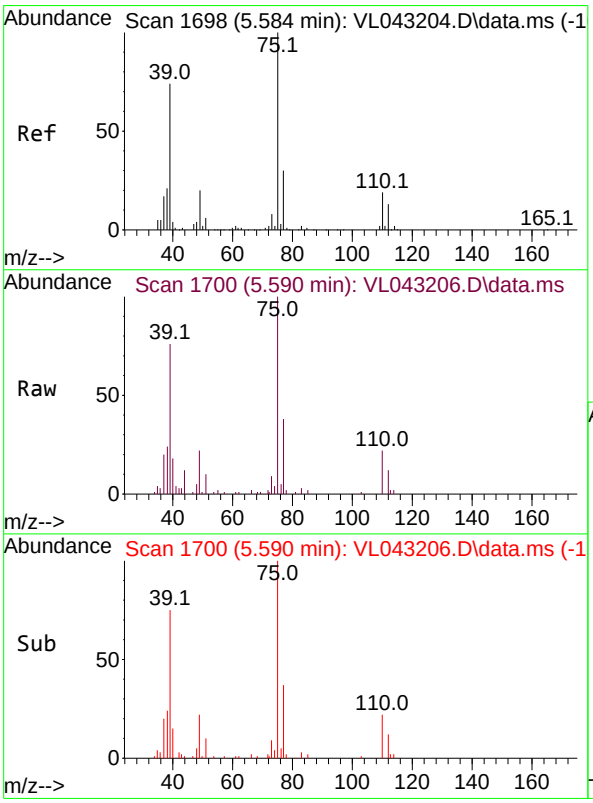
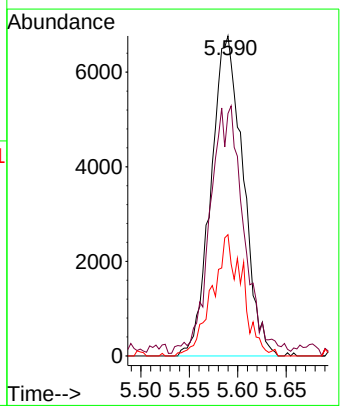
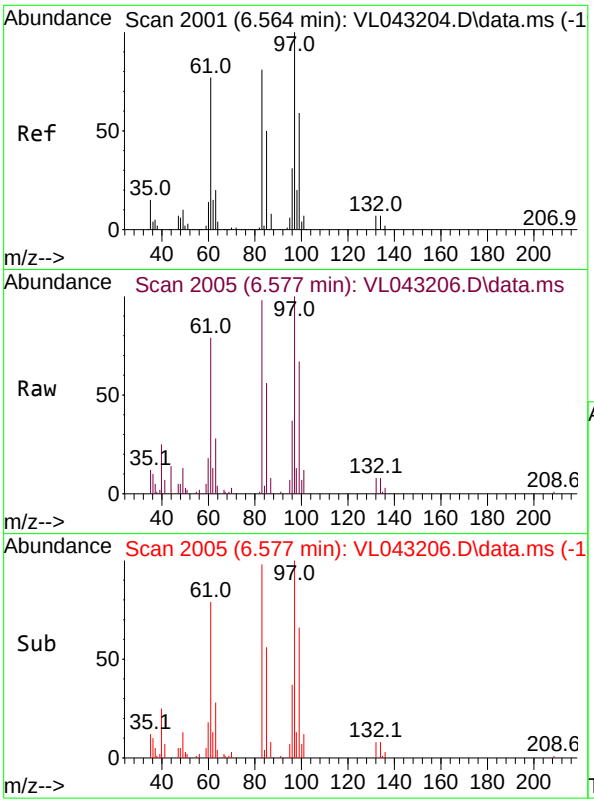


#46
cis-1,3-Dichloropropene
Concen: 1.001 ppbv
RT: 5.590 min Scan# 1700
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 75 Resp: 15527

Ion	Ratio	Lower	Upper
75	100		
39	72.5	59.1	88.7
77	37.9	24.2	36.2#

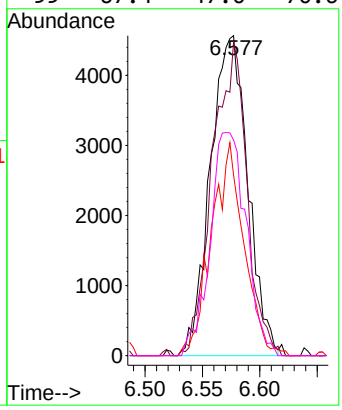




#47
1,1,2-Trichloroethane
Concen: 0.995 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 97 Resp: 1036

Ion	Ratio	Lower	Upper
97	100		
83	97.9	64.6	97.0
85	56.4	39.4	59.2
99	67.4	47.0	70.6



Instrument :
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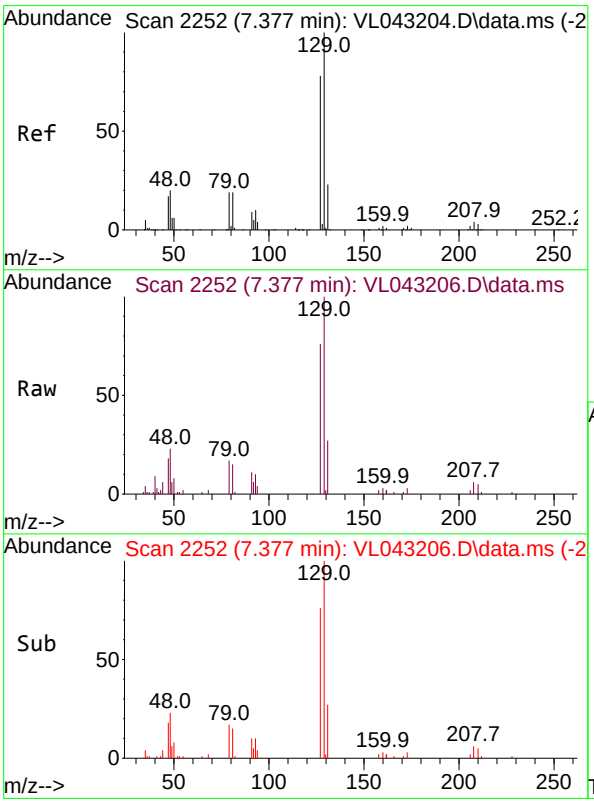
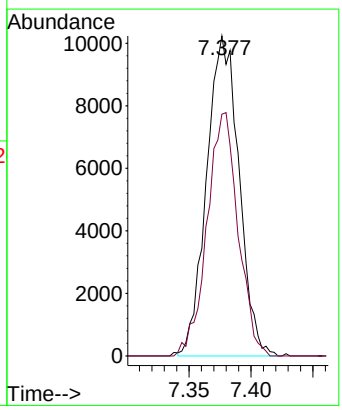
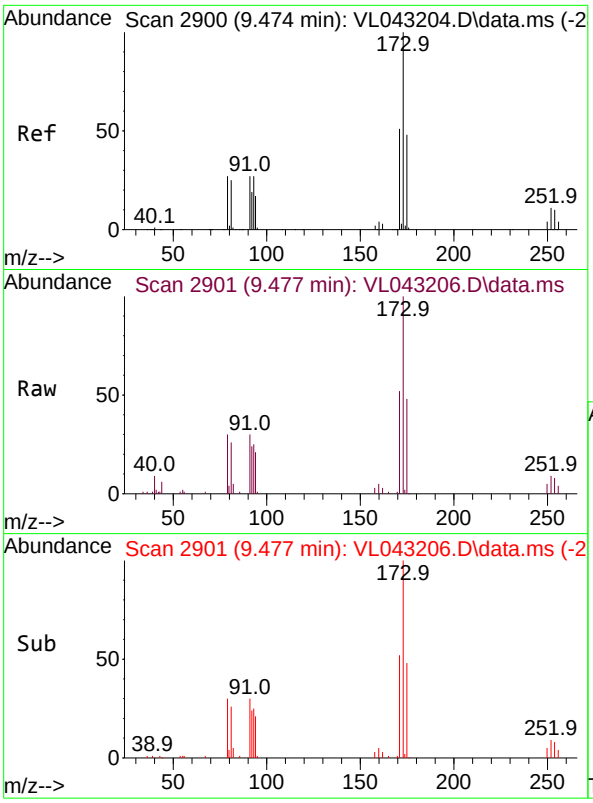


#48
Dibromochloromethane
Concen: 1.041 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:129 Resp: 18560

Ion	Ratio	Lower	Upper
129	100		
127	72.8	39.3	117.9

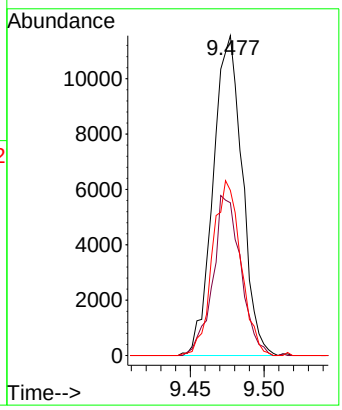




#49
Bromoform
Concen: 1.004 ppbv
RT: 9.477 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:173 Resp: 1585

Ion	Ratio	Lower	Upper
173	100		
175	47.9	38.6	58.0
171	53.5	40.6	61.0



Instrument :
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ClientSampleId :
VSTDICC001

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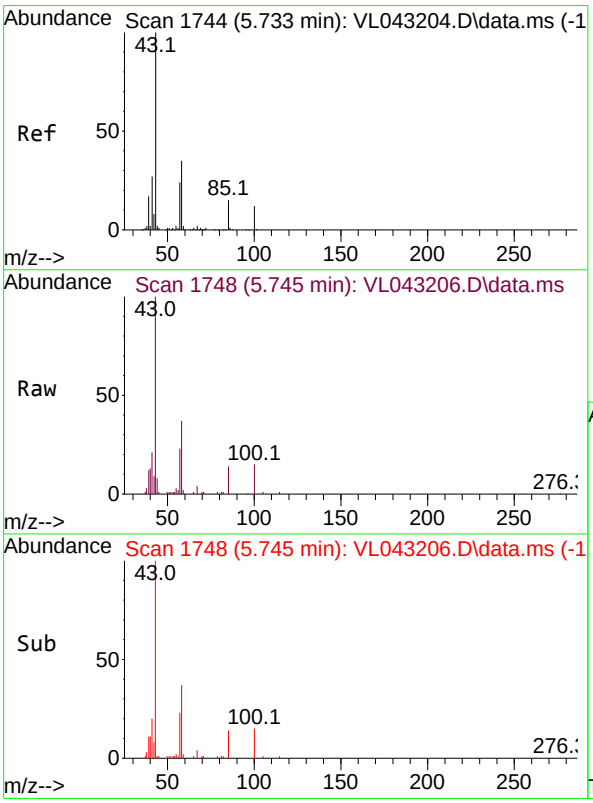
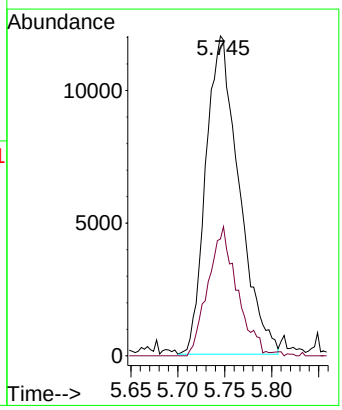
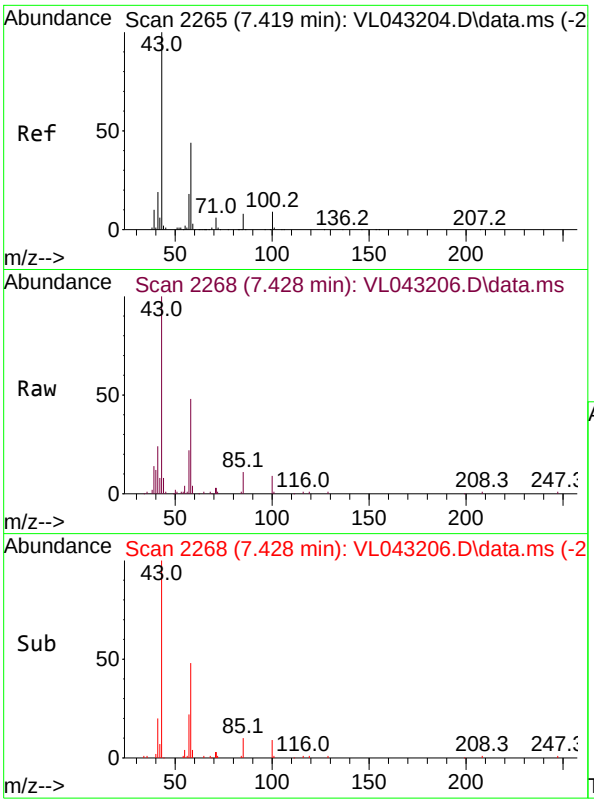


#50
4-Methyl-2-Pentanone
Concen: 1.067 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 29560

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.4	42.6

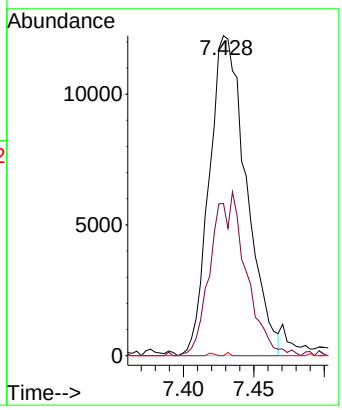




#51
2-Hexanone
Concen: 1.043 ppbv
RT: 7.428 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 2243

Ion	Ratio	Lower	Upper
43	100		
58	49.4	38.4	57.6
98	0.2	0.0	0.0



Instrument :
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ClientSampleId :
VSTDICC001

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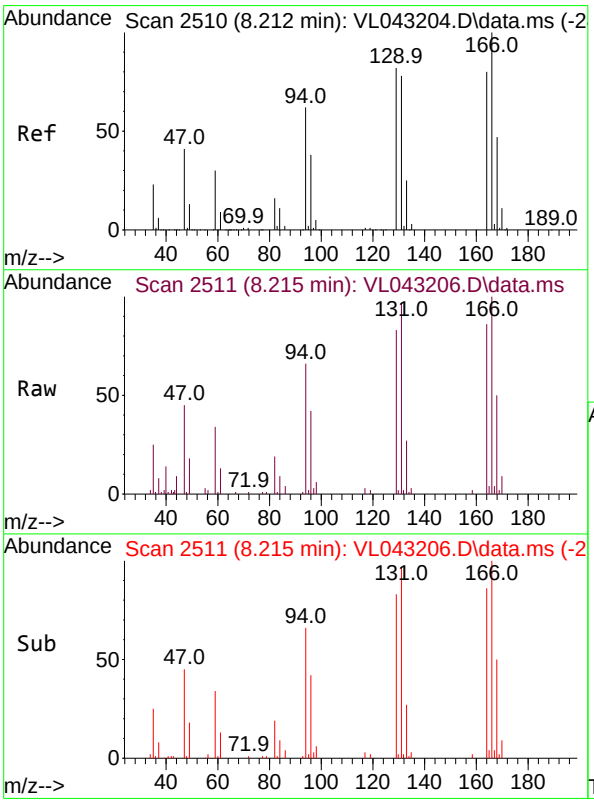
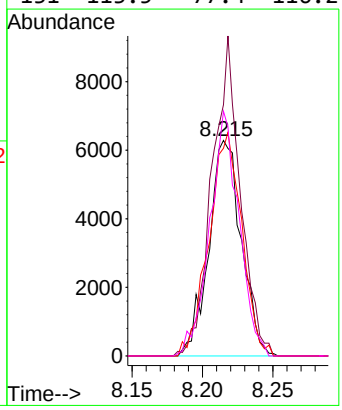
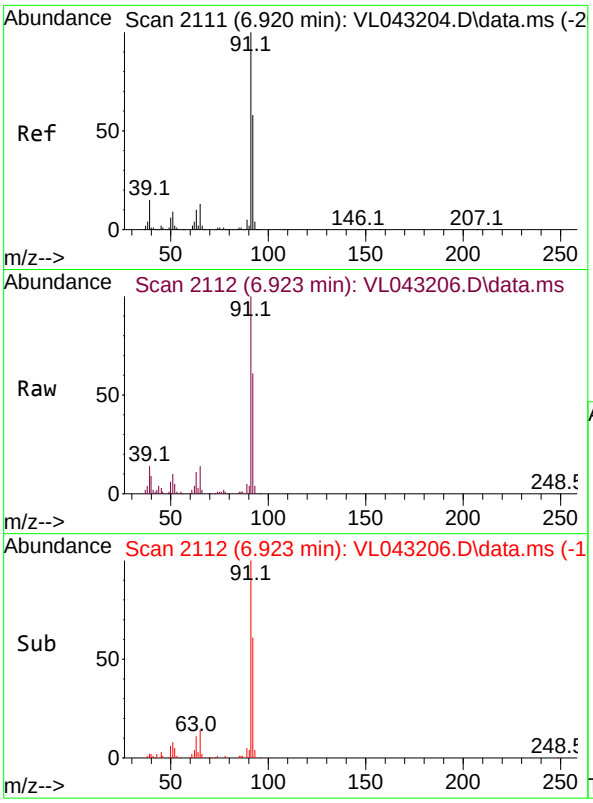


#52
Tetrachloroethene
Concen: 1.015 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:164 Resp: 10080

Ion	Ratio	Lower	Upper
164	100		
166	116.5	99.4	149.2
129	96.3	81.8	122.8
131	113.5	77.4	116.2

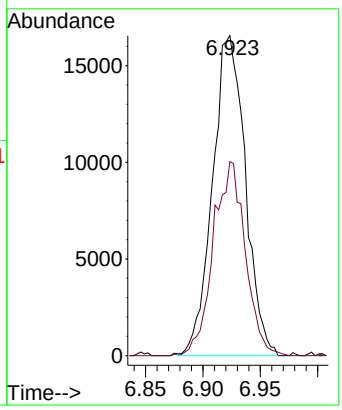




#53
Toluene
Concen: 1.036 ppbv
RT: 6.923 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 3295

Ion	Ratio	Lower	Upper
91	100		
92	59.0	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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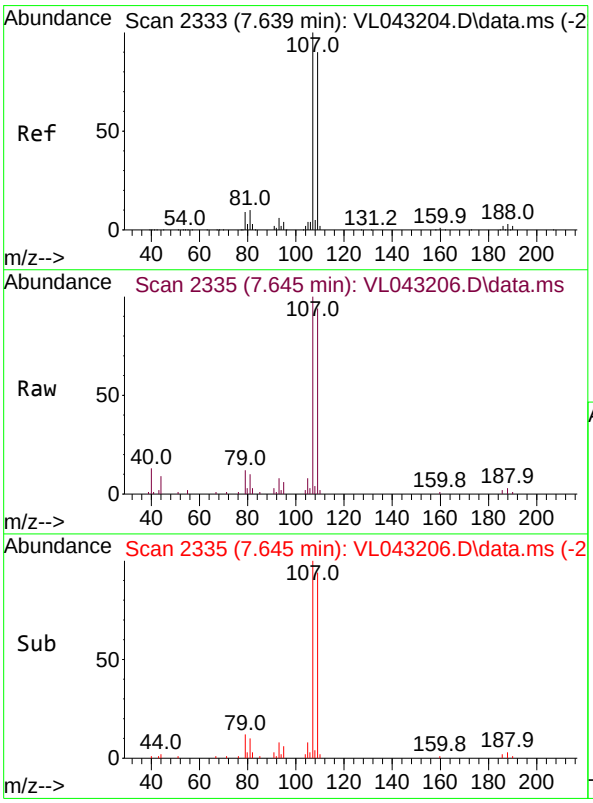
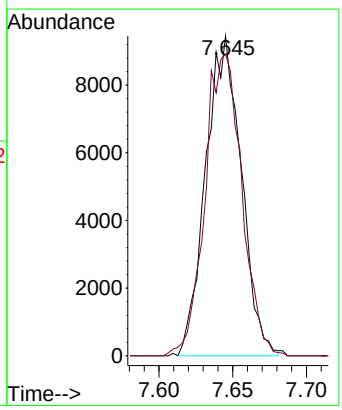
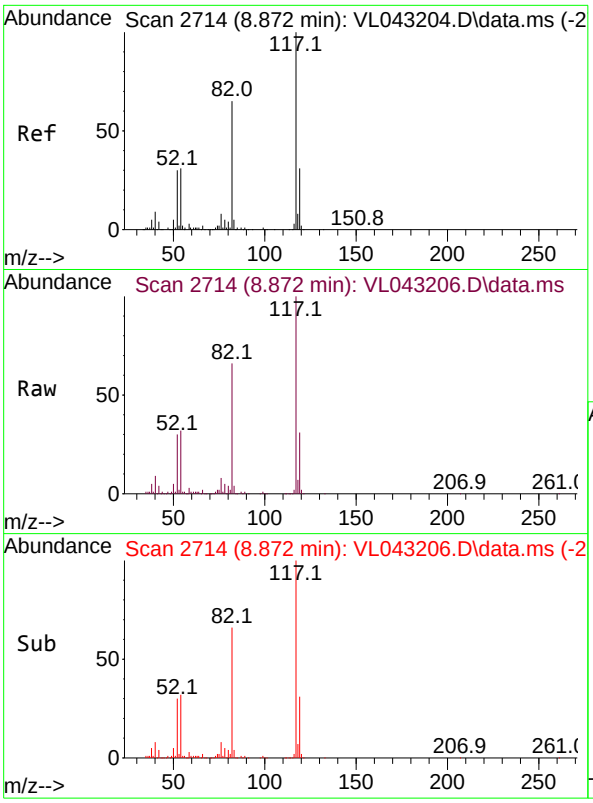


#54
1,2-Dibromoethane
Concen: 1.040 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:107 Resp: 15865

Ion	Ratio	Lower	Upper
107	100		
109	93.3	72.1	108.1

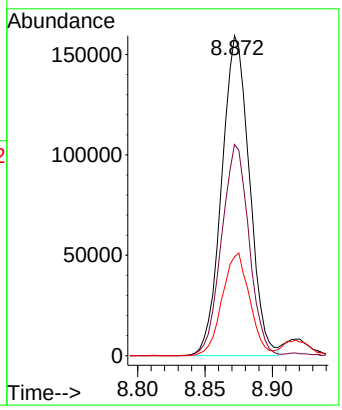




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:117 Resp: 22799

Ion	Ratio	Lower	Upper
117	100		
82	66.2	56.1	84.1
119	32.1	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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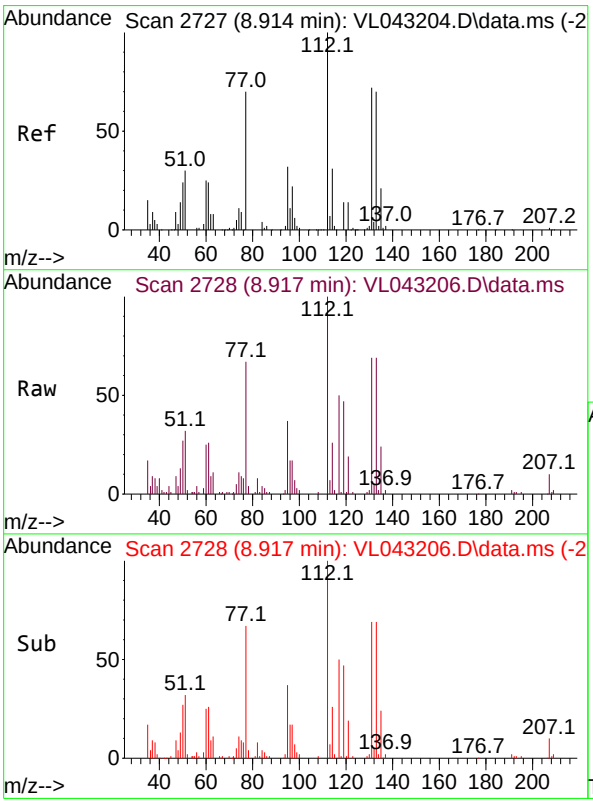
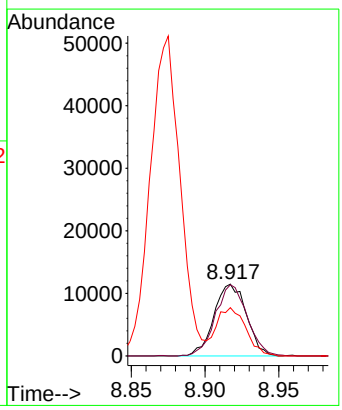
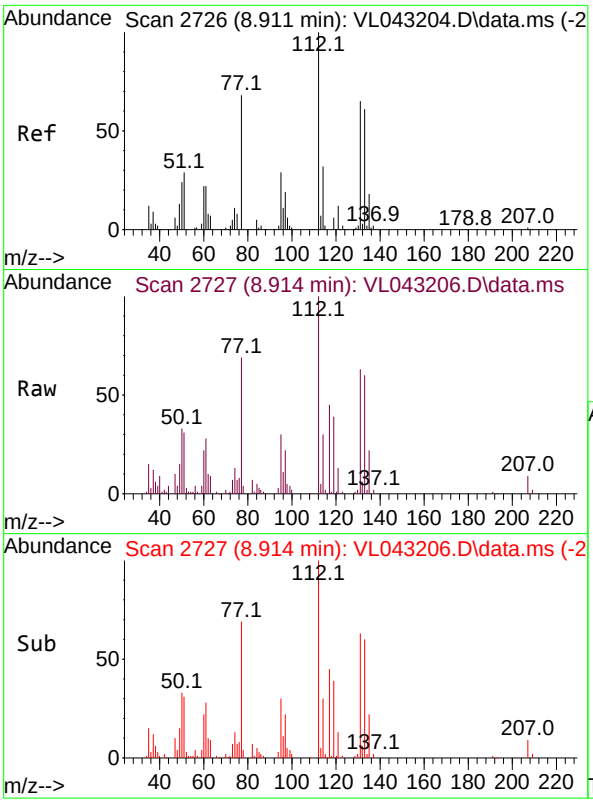


#56
1,1,1,2-Tetrachloroethane
Concen: 1.046 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:131 Resp: 17535

Ion	Ratio	Lower	Upper
131	100		
133	97.3	77.4	116.2
119	60.6	49.1	73.7

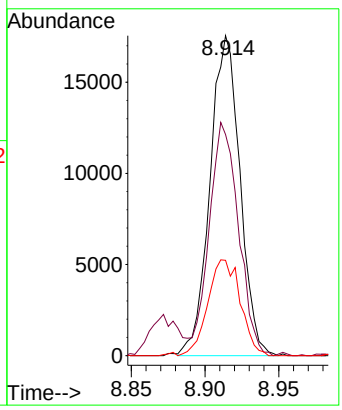




#57
Chlorobenzene
Concen: 1.060 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:112 Resp: 2480

Ion	Ratio	Lower	Upper
112	100		
77	68.6	55.5	83.3
114	29.8	29.1	35.5



Instrument :
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VSTDICC001

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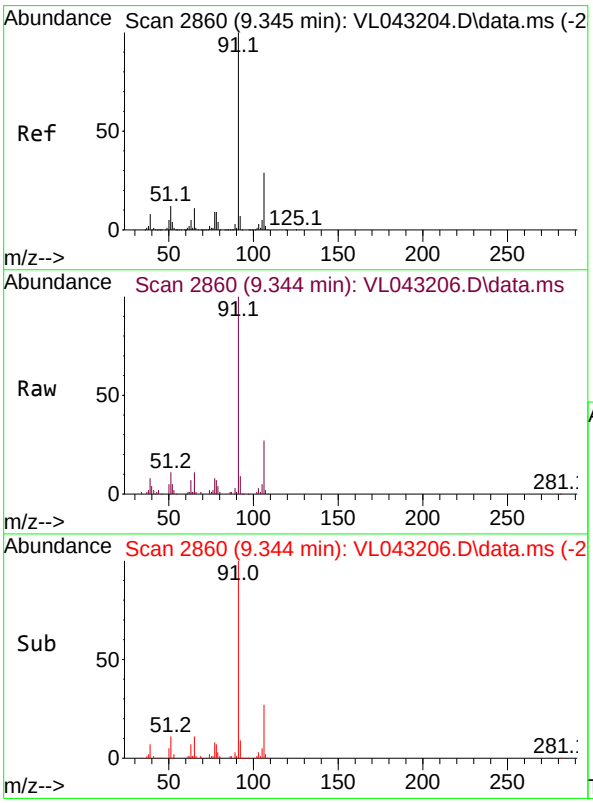
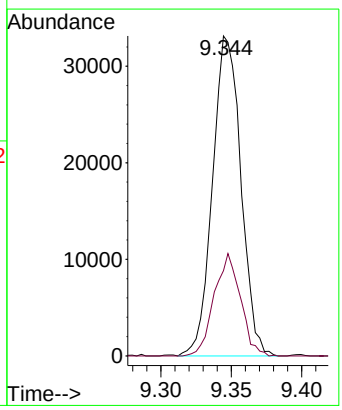
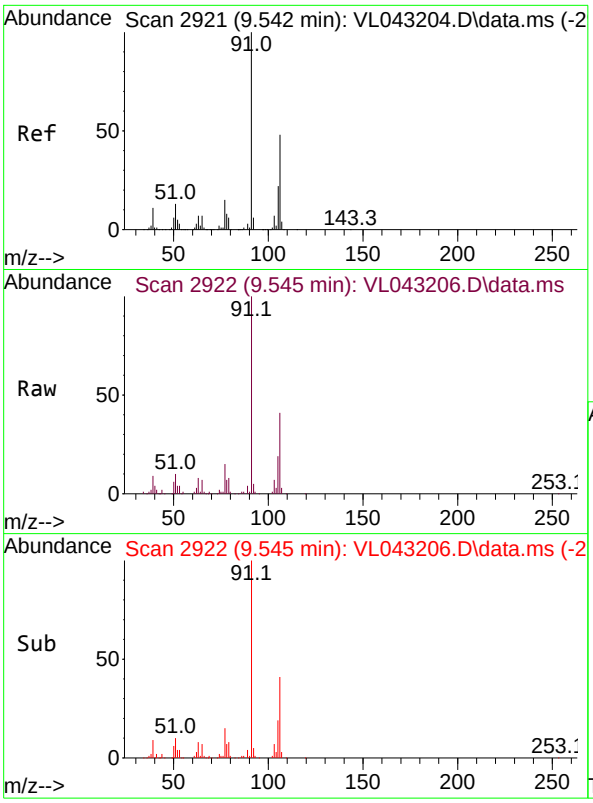


#58
Ethyl Benzene
Concen: 1.059 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 46455

Ion	Ratio	Lower	Upper
91	100		
106	26.6	22.8	34.2





#59
m/p-Xylene
Concen: 2.080 ppbv m
RT: 9.545 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 7346

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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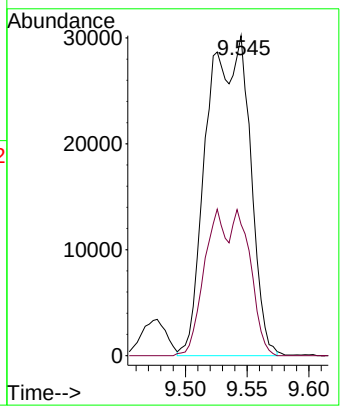
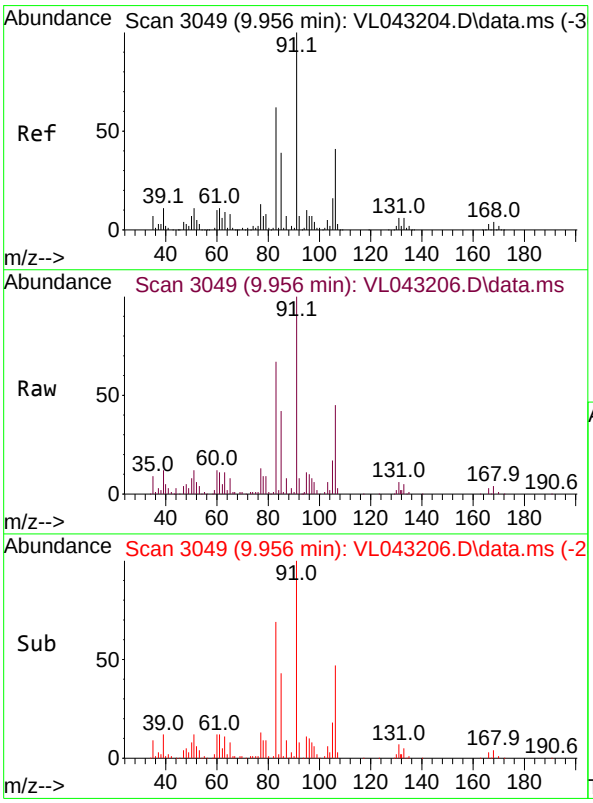
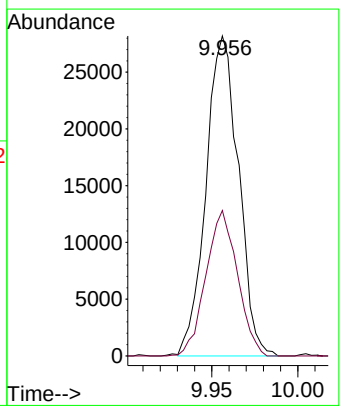


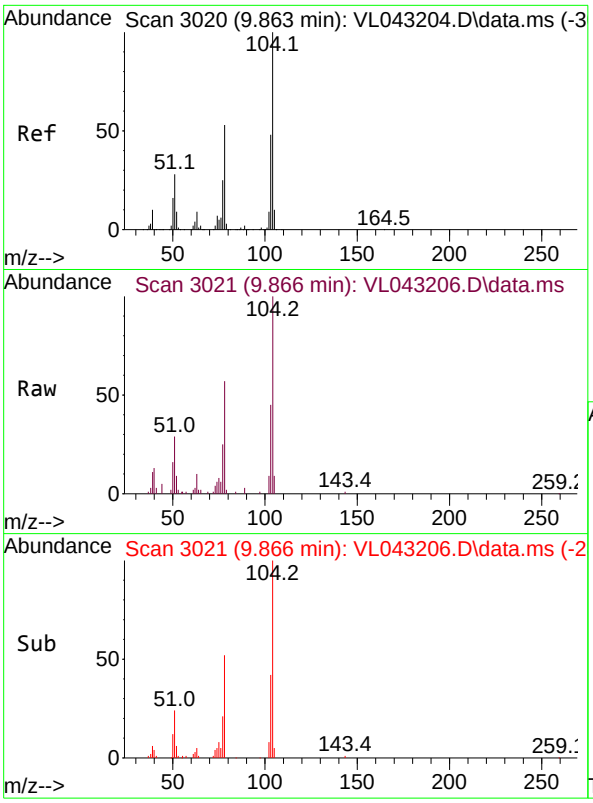


#60
o-Xylene
Concen: 1.054 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 37054

Ion	Ratio	Lower	Upper
91	100		
106	44.1	20.9	62.8

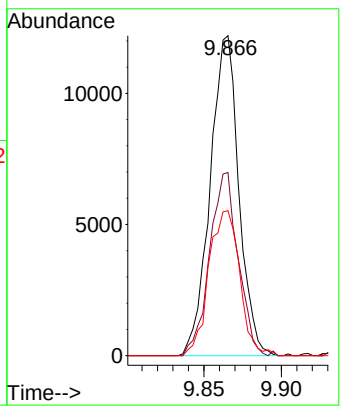




#61
Styrene
Concen: 1.023 ppbv
RT: 9.866 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:104 Resp: 1573

Ion	Ratio	Lower	Upper
104	100		
78	56.9	42.1	63.1
103	48.6	37.2	55.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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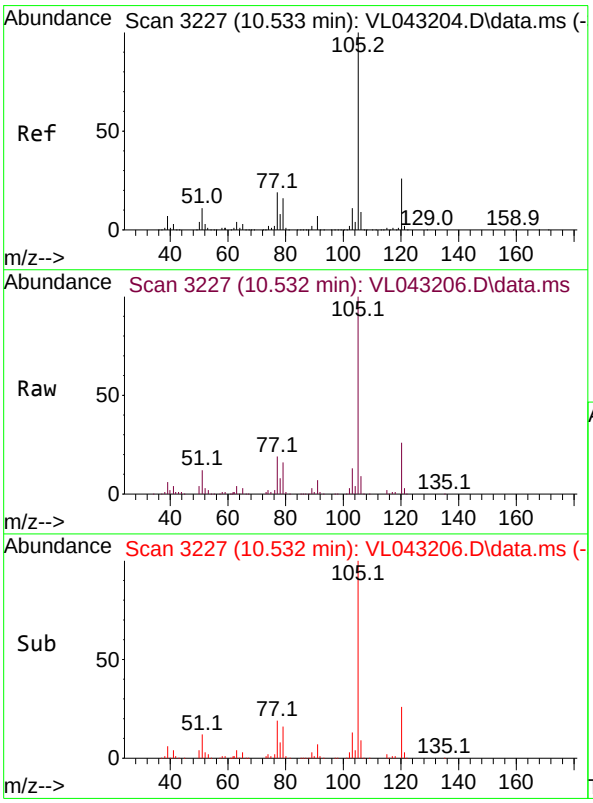
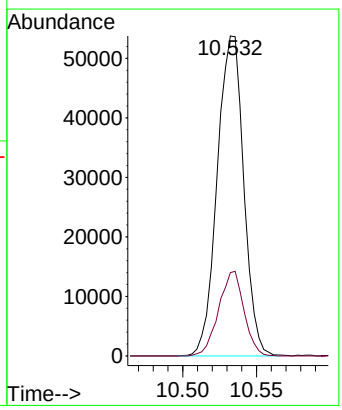
Supervised By :Mahesh Dadoda 11/19/2025

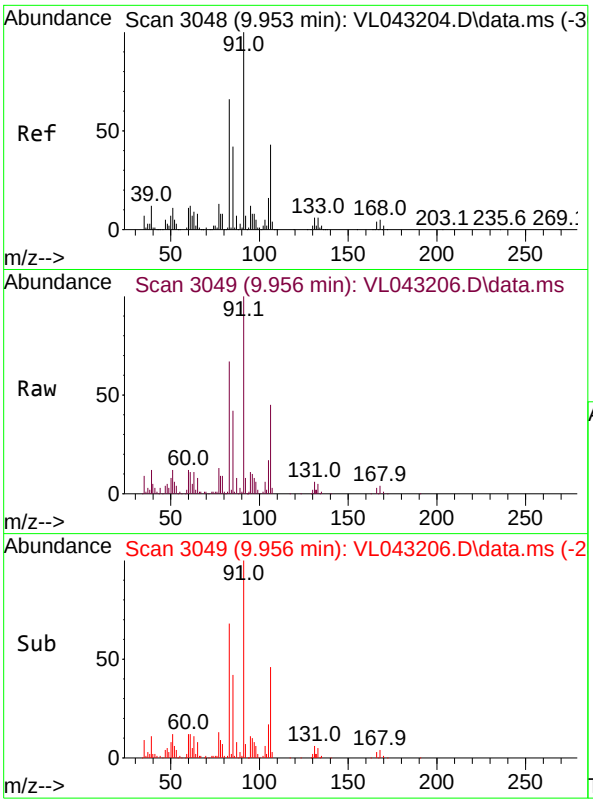


#62
Isopropylbenzene
Concen: 1.068 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:105 Resp: 67163

Ion	Ratio	Lower	Upper
105	100		
120	25.2	19.8	29.8

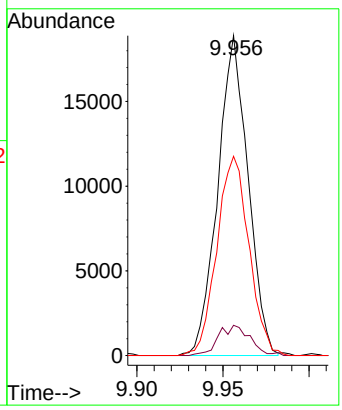




#63
1,1,2,2-Tetrachloroethane
Concen: 1.035 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 83 Resp: 2308

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.3
85	66.2	31.9	95.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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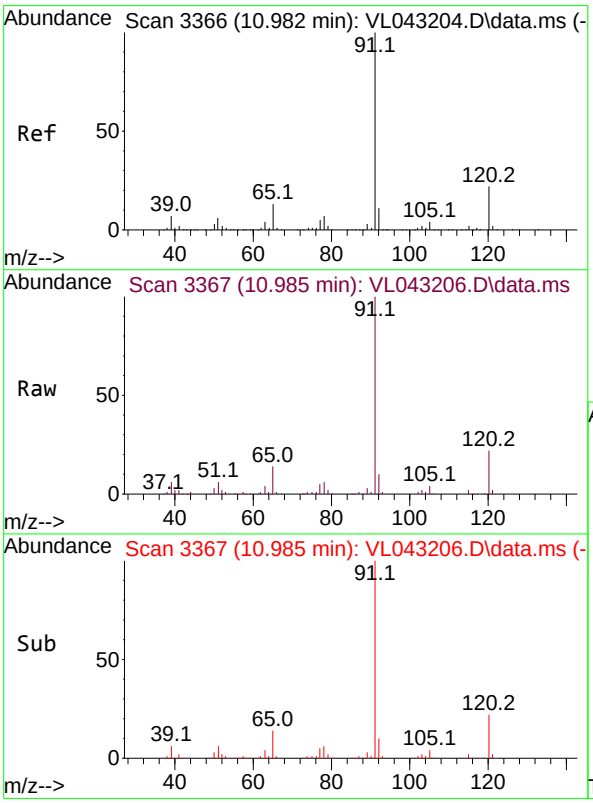
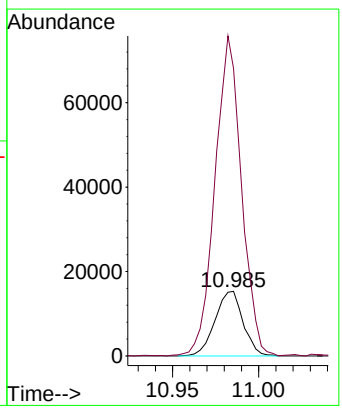
Supervised By :Mahesh Dadoda 11/19/2025

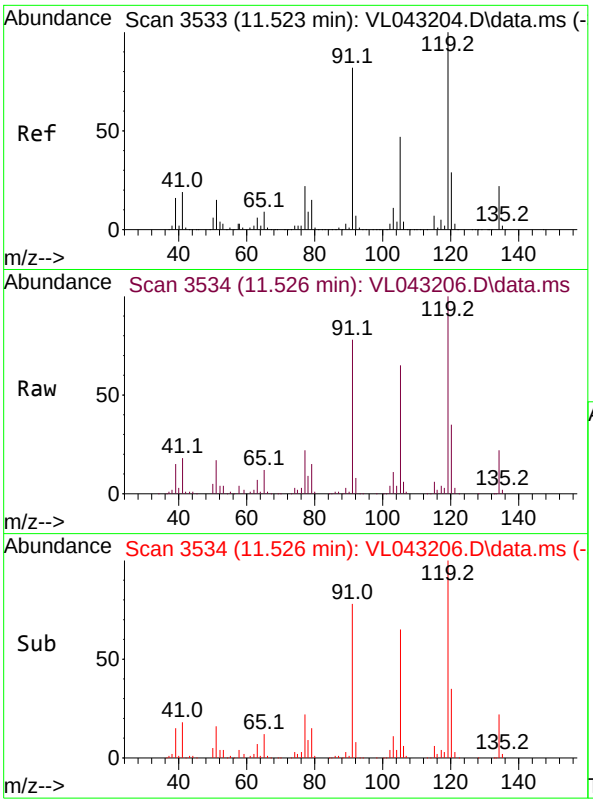


#64
n-propylbenzene
Concen: 1.070 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:120 Resp: 17289

Ion	Ratio	Lower	Upper
120	100		
91	471.4	377.1	565.7

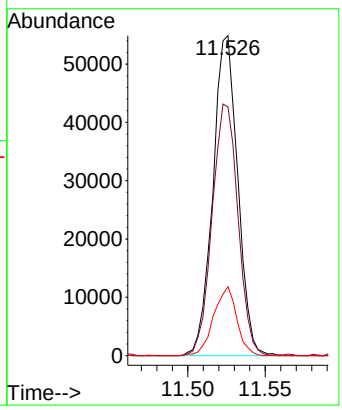




#65
tert-Butylbenzene
Concen: 1.091 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:119 Resp: 6125

Ion	Ratio	Lower	Upper
119	100		
91	81.7	65.3	97.9
134	20.0	17.0	25.4



Instrument :
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ClientSampleId :
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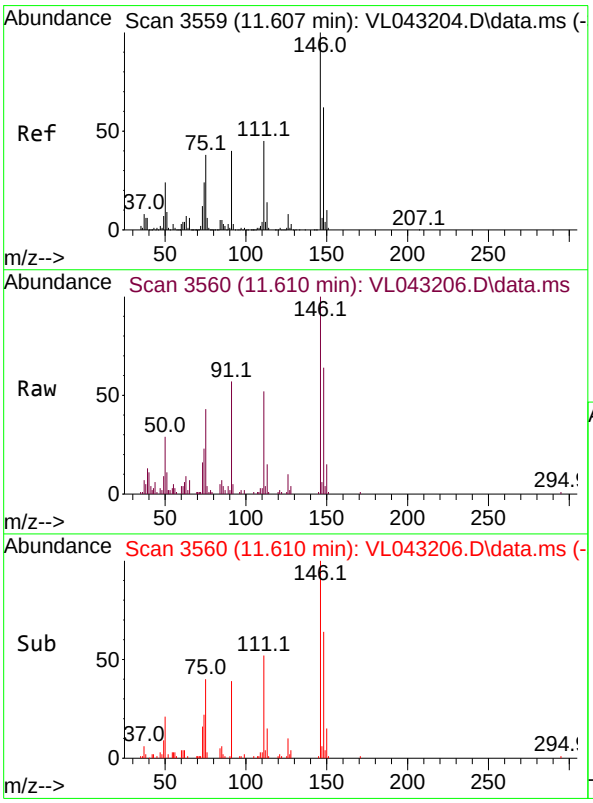
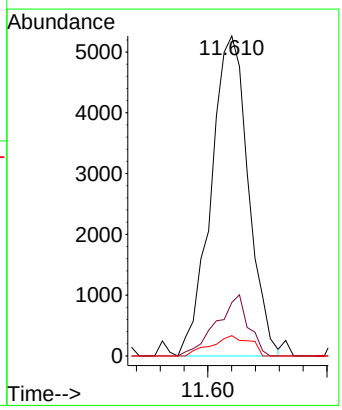
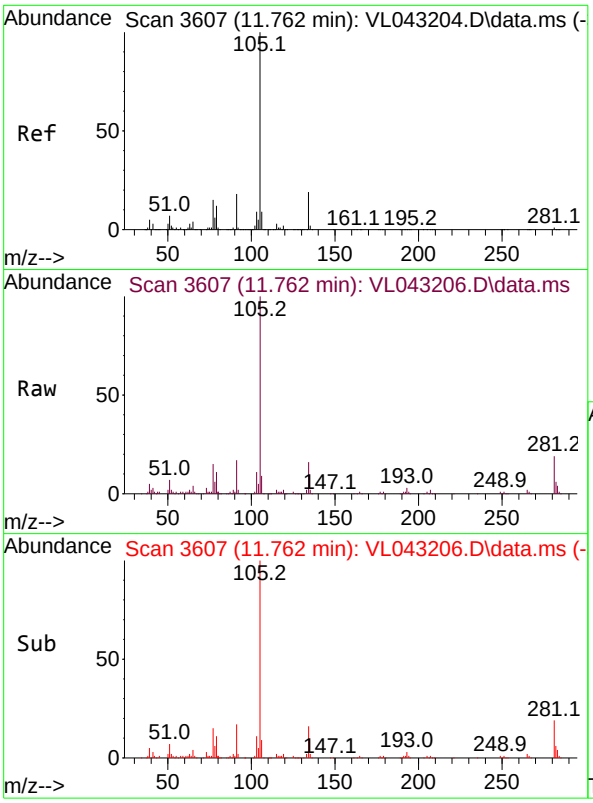


#66
Benzyl Chloride
Concen: 1.005 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 5729

Ion	Ratio	Lower	Upper
91	100		
126	16.3	14.4	21.6
128	6.5	4.6	6.8

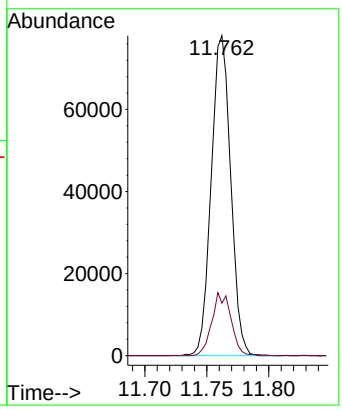




#67
sec-Butylbenzene
Concen: 1.084 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:105 Resp: 8498

Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.0	22.6



Instrument :
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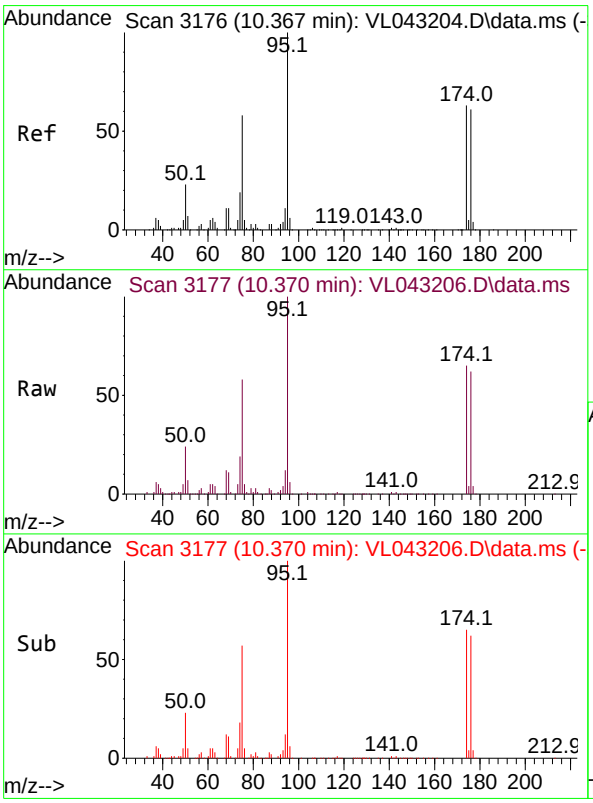
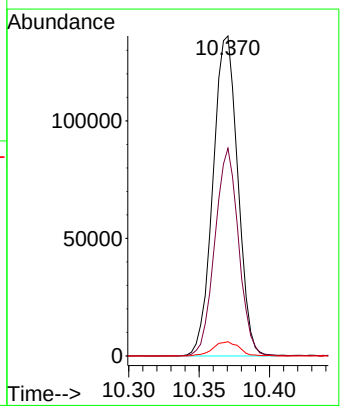
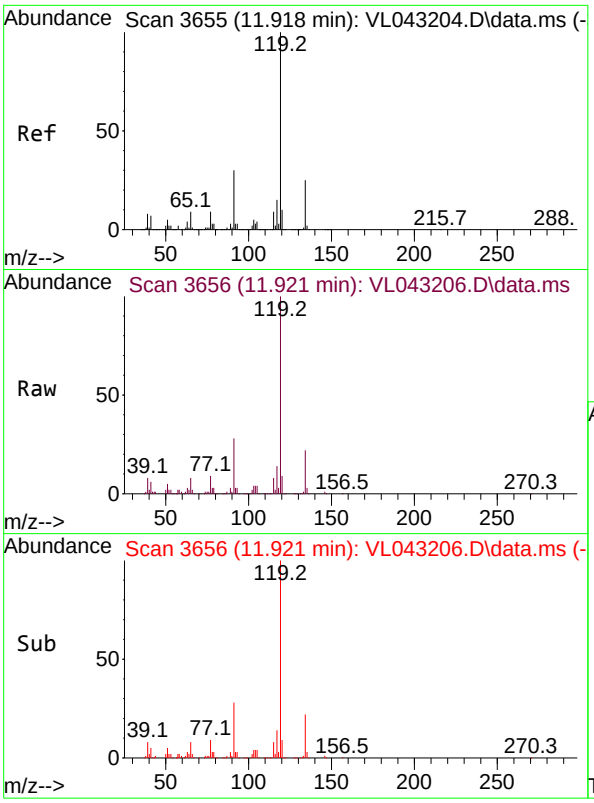


#68
1-Bromo-4-Fluorobenzene
Concen: 9.996 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 95 Resp: 167061

Ion	Ratio	Lower	Upper
95	100		
174	62.1	50.2	75.2
175	4.6	4.1	6.1

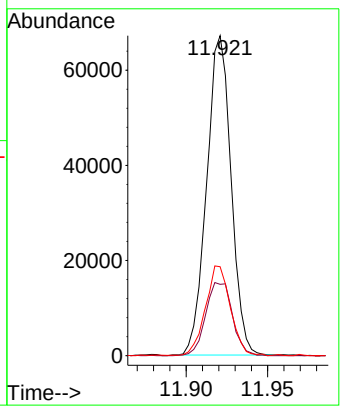




#69
p-Isopropyltoluene
Concen: 1.054 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:119 Resp: 6999

Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.2	30.2
91	28.9	23.8	35.8



Instrument :
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ClientSampleId :
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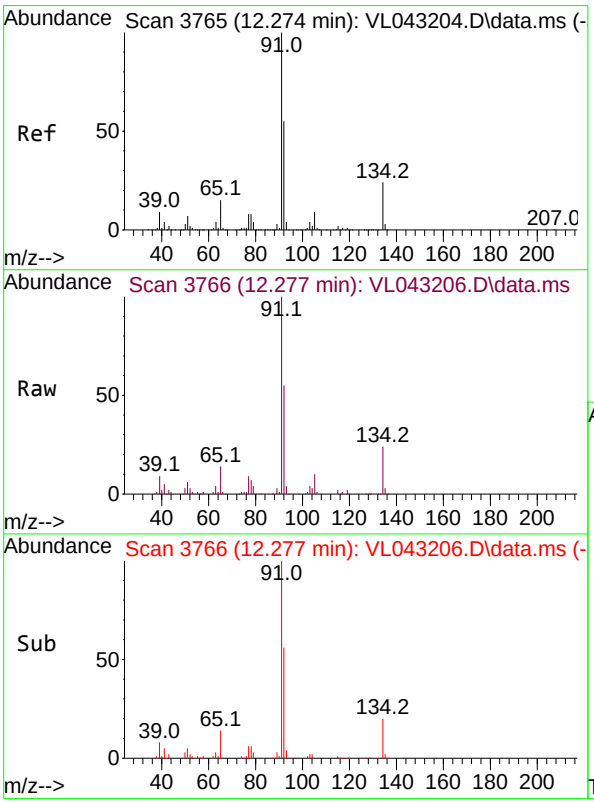
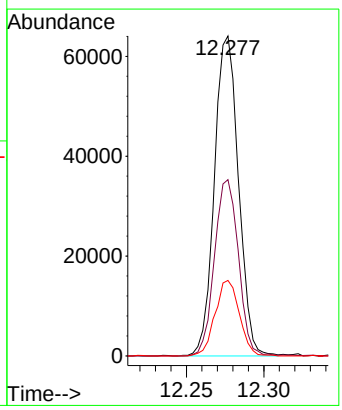
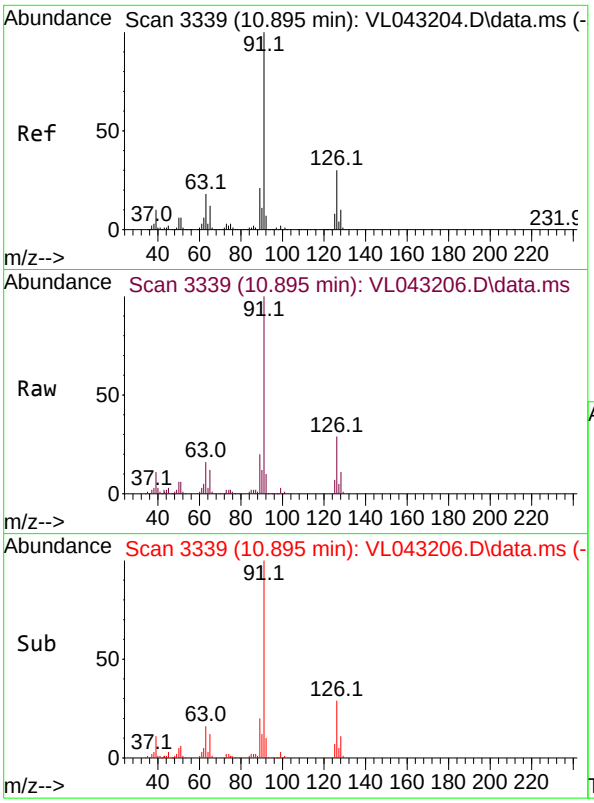


#70
n-Butylbenzene
Concen: 1.076 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 69323

Ion	Ratio	Lower	Upper
91	100		
92	55.0	43.5	65.3
134	23.8	19.0	28.6

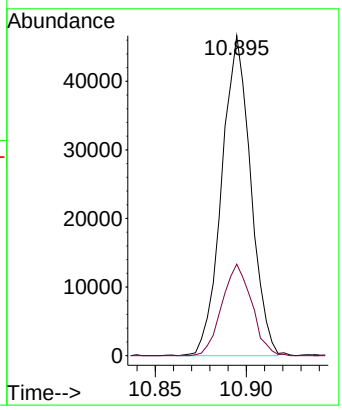




#71
2-Chlorotoluene
Concen: 1.065 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 5145

Ion	Ratio	Lower	Upper
91	100		
126	29.3	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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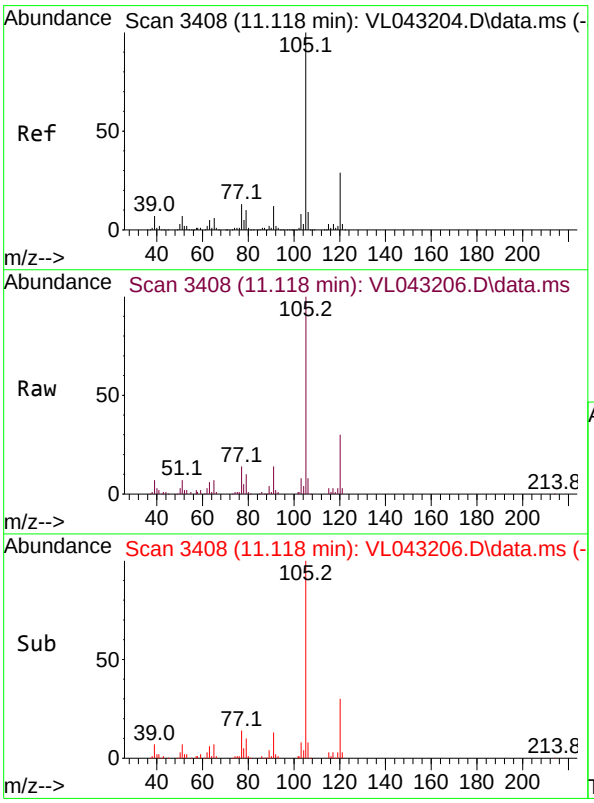
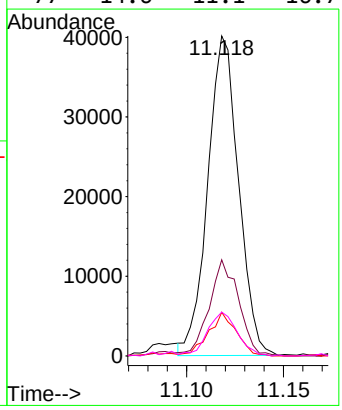
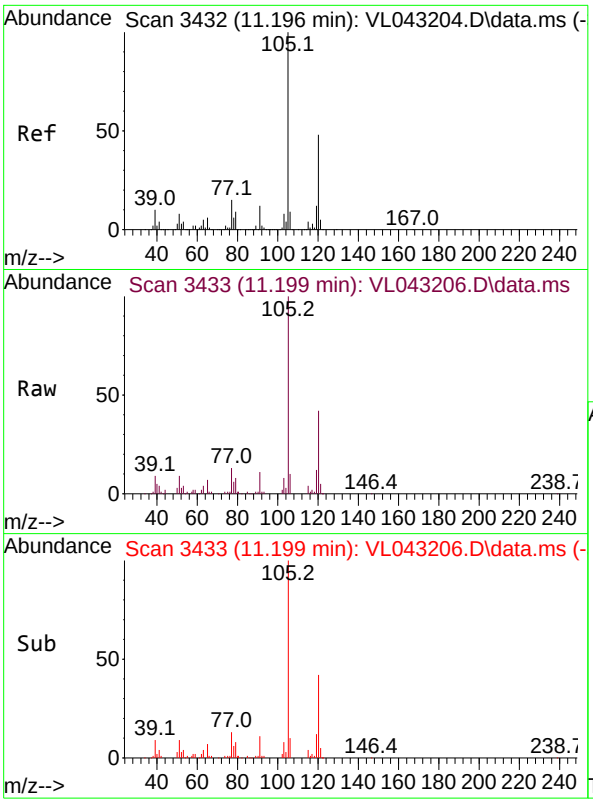


#72
4-Ethyltoluene
Concen: 1.037 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:105 Resp: 44403

Ion	Ratio	Lower	Upper
105	100		
120	29.8	23.8	35.8
91	13.2	10.3	15.5
77	14.6	11.1	16.7

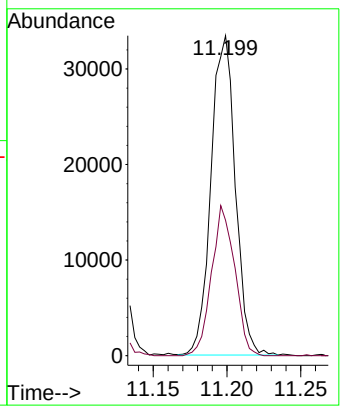




#73
1,3,5-Trimethylbenzene
Concen: 1.068 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:105 Resp: 3835

Ion	Ratio	Lower	Upper
105	100		
120	42.3	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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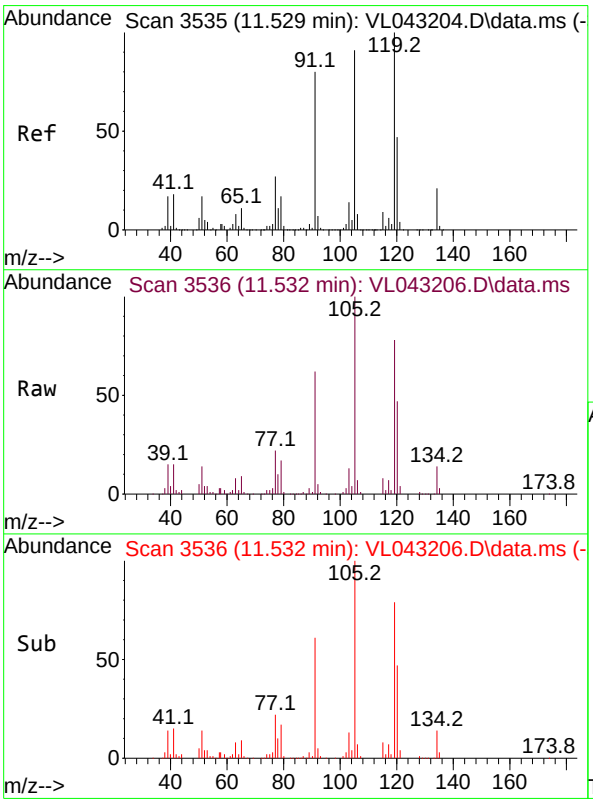
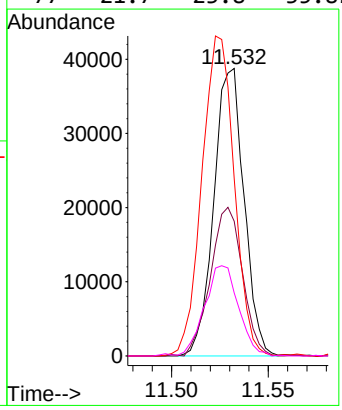
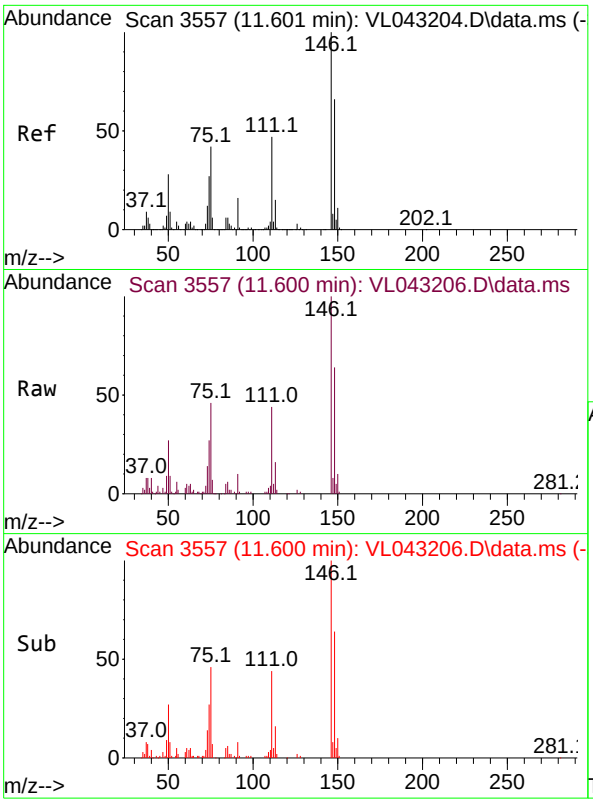


#74
1,2,4-Trimethylbenzene
Concen: 1.073 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:105 Resp: 42051

Ion	Ratio	Lower	Upper
105	100		
120	46.8	41.7	62.5
91	61.4	70.0	105.0#
77	21.7	23.8	35.8#

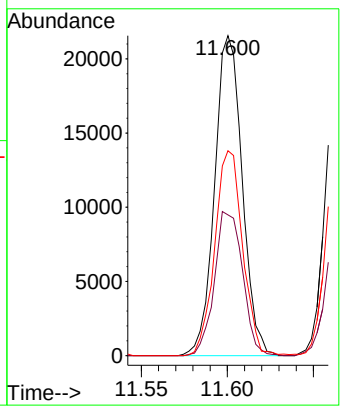




#75
1,3-Dichlorobenzene
Concen: 1.050 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:146 Resp: 2401

Ion	Ratio	Lower	Upper
146	100		
111	45.9	23.4	70.3
148	64.7	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
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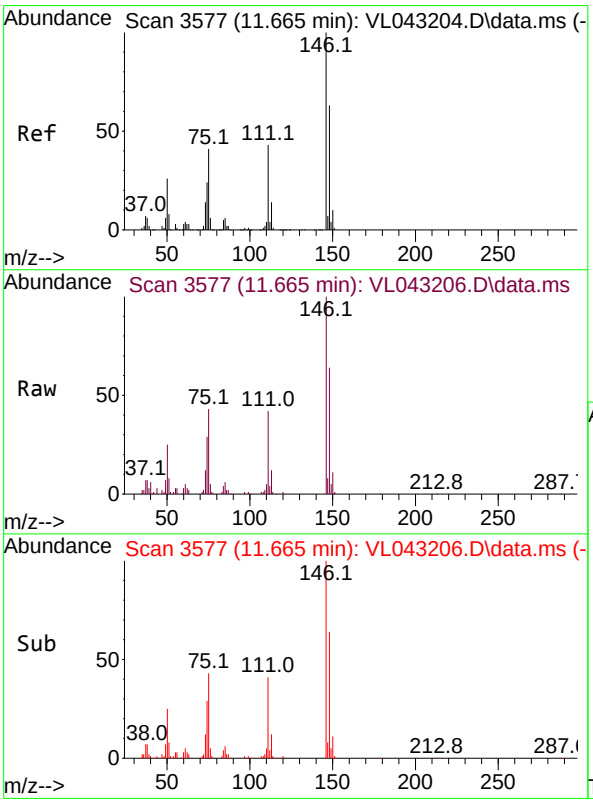
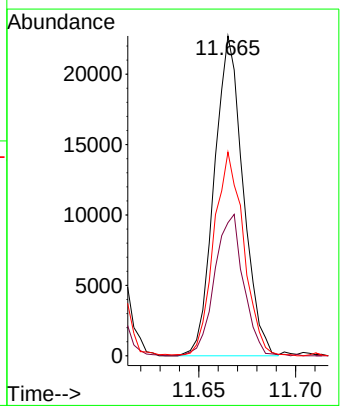
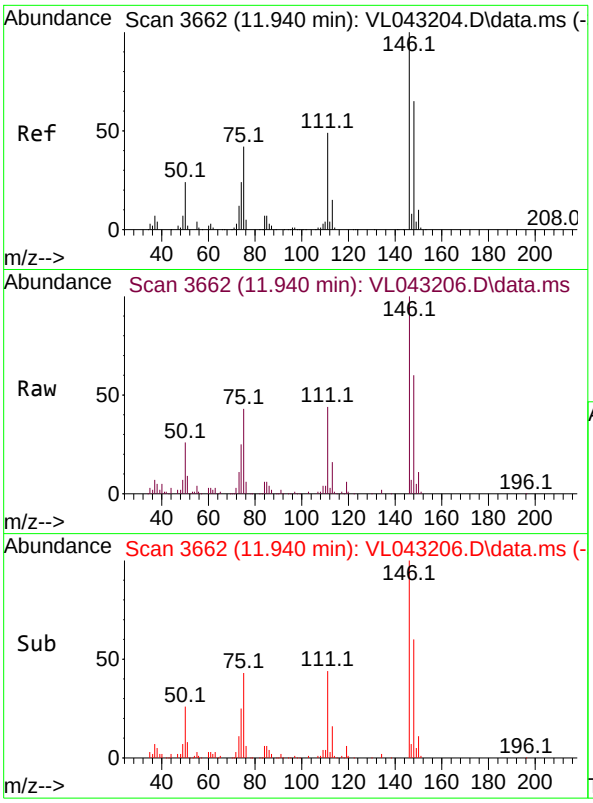


#76
1,4-Dichlorobenzene
Concen: 1.029 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:146 Resp: 23543

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.8	68.3
148	66.4	31.8	95.4

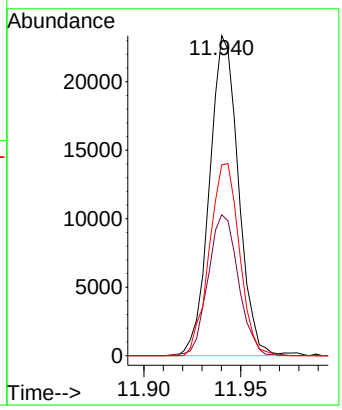




#77
1,2-Dichlorobenzene
Concen: 1.103 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:146 Resp: 2424

Ion	Ratio	Lower	Upper
146	100		
111	46.3	24.3	73.0
148	62.3	31.6	94.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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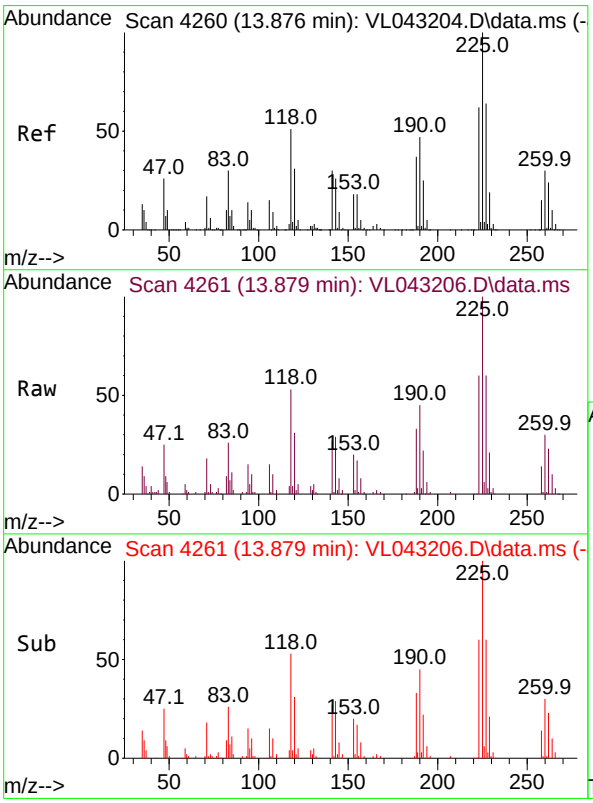
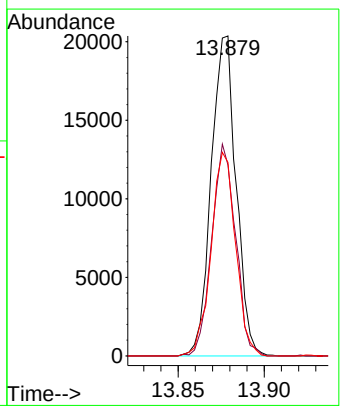
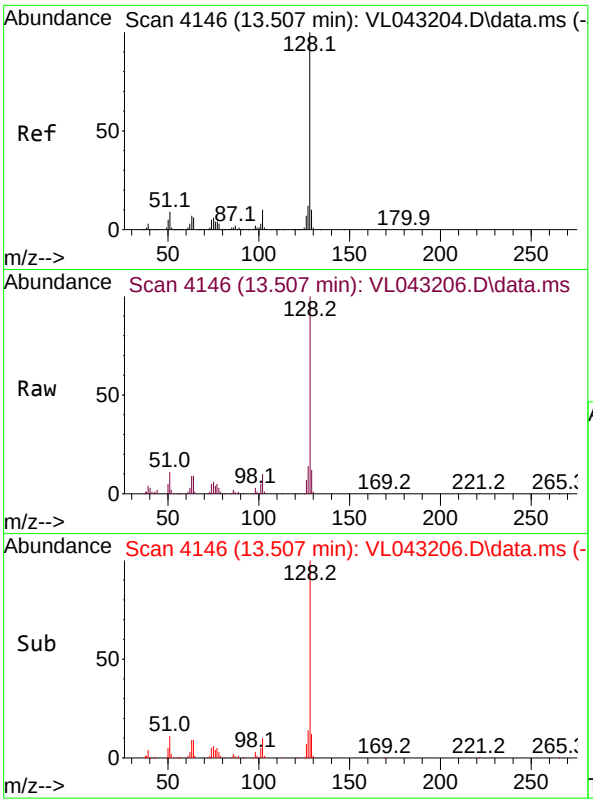


#78
Hexachloro-1,3-Butadiene
Concen: 1.116 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:225 Resp: 20489

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.2	75.4
227	62.5	51.1	76.7

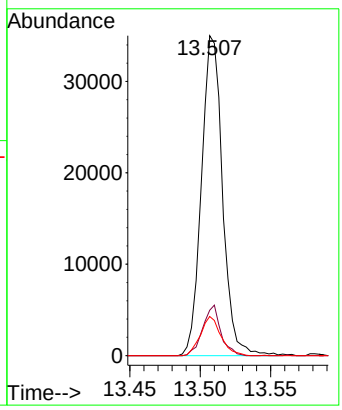




#79
Naphthalene
Concen: 1.047 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:128 Resp: 3646

Ion	Ratio	Lower	Upper
128	100		
127	14.2	9.9	14.9
129	12.2	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

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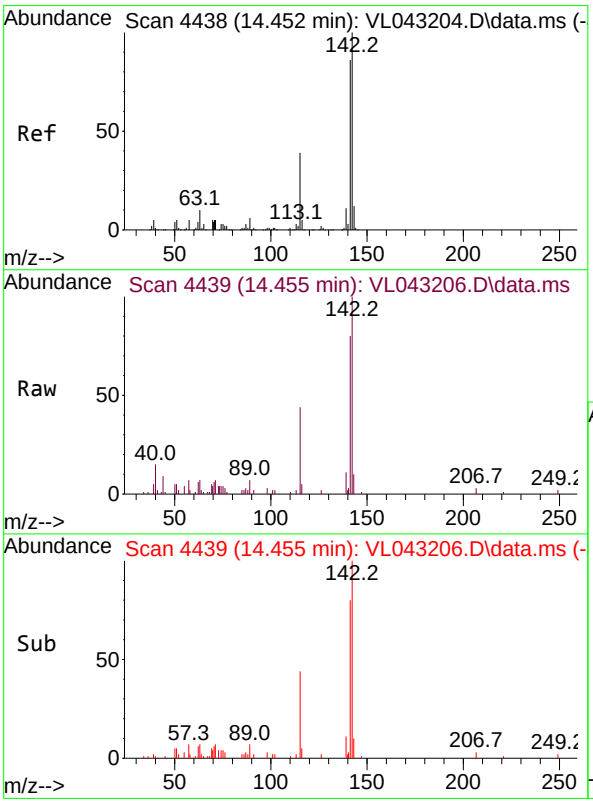
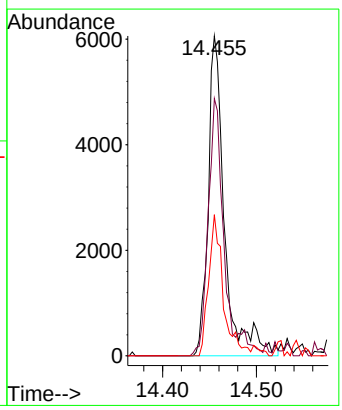
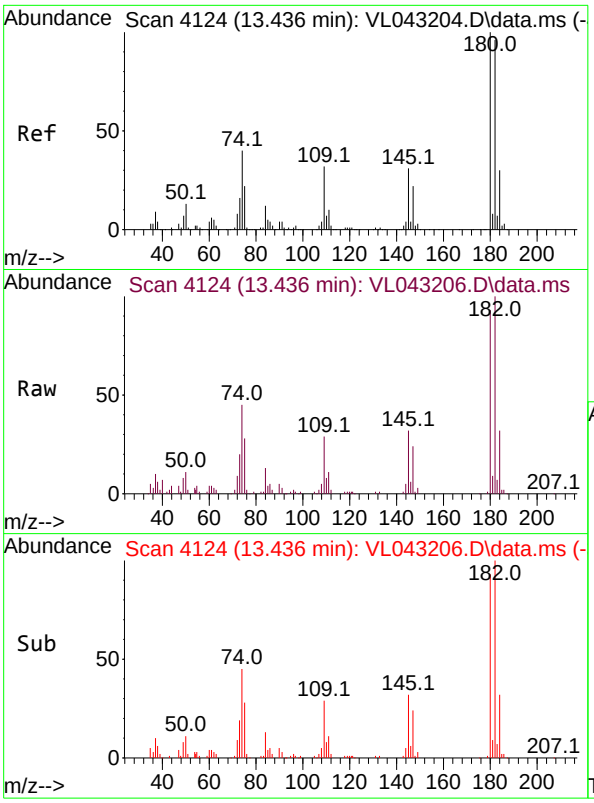


#80
Naphthalene,2-methyl-
Concen: 0.807 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:142 Resp: 7375

Ion	Ratio	Lower	Upper
142	100		
141	77.8	67.1	100.7
115	40.8	31.9	47.9

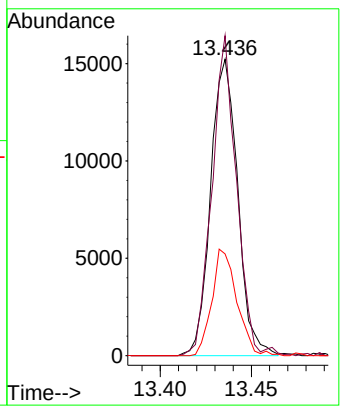




#81
1,2,4-Trichlorobenzene
Concen: 1.014 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:180 Resp: 1578

Ion	Ratio	Lower	Upper
180	100		
182	98.2	77.4	116.2
184	33.4	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043208.D
Acq On : 18 Nov 2025 12:16
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:51:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	101366	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	273996	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	222034	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	160968	9.890	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.900%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	664	0.114	ppbv	97
32) 1,1,1-Trichloroethane	3.360	97	2074m	0.102	ppbv	
35) Carbon Tetrachloride	3.761	117	2097m	0.101	ppbv	
38) Trichloroethene	4.541	130	1302m	0.127	ppbv	
52) Tetrachloroethene	8.218	164	1161m	0.119	ppbv	
54) 1,2-Dibromoethane	7.648	107	1446m	0.096	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.953	83	2296m	0.106	ppbv	
79) Naphthalene	13.510	128	2732m	0.081	ppbv	

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

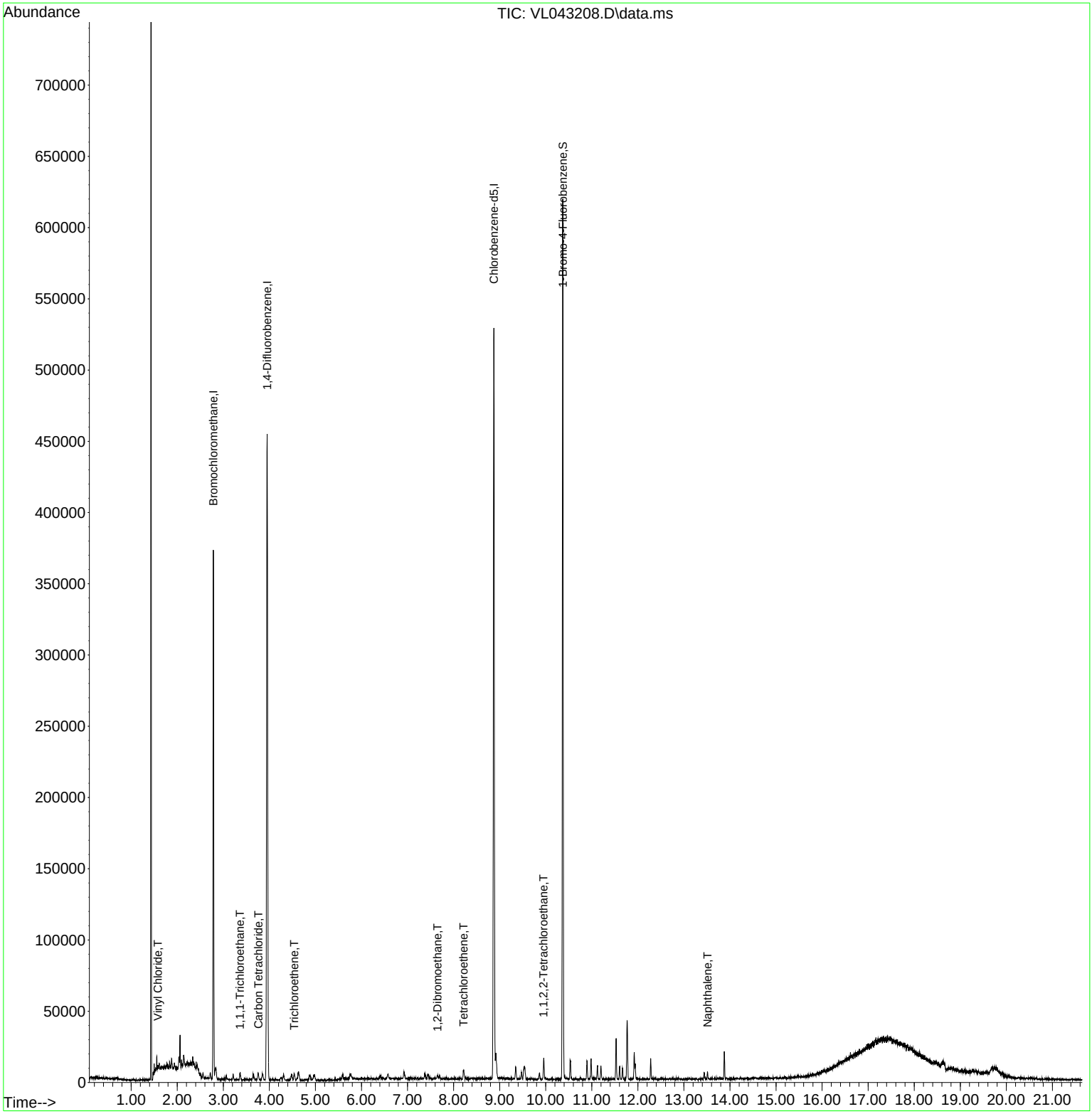
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043208.D
Acq On : 18 Nov 2025 12:16
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

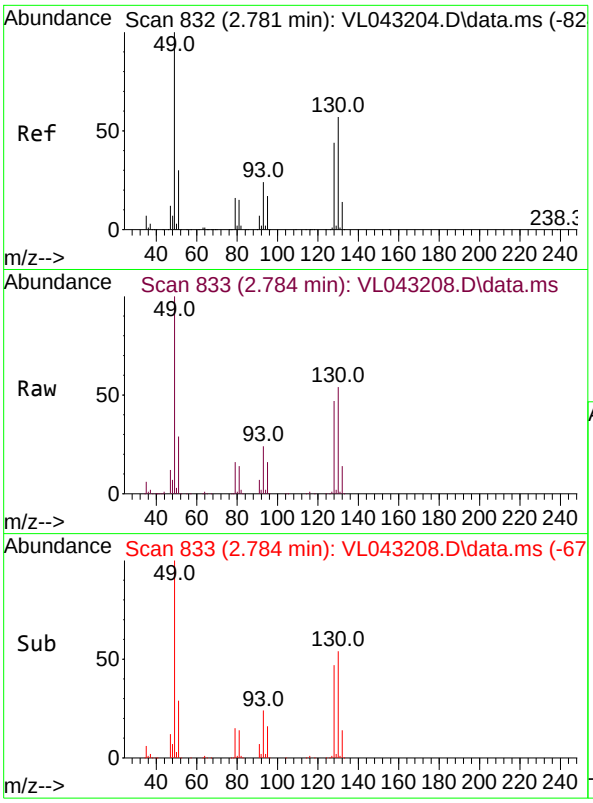
Quant Time: Nov 19 00:51:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

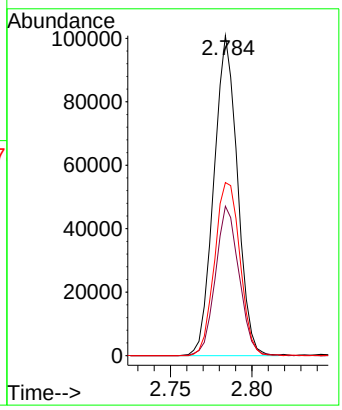




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 49 Resp: 10136

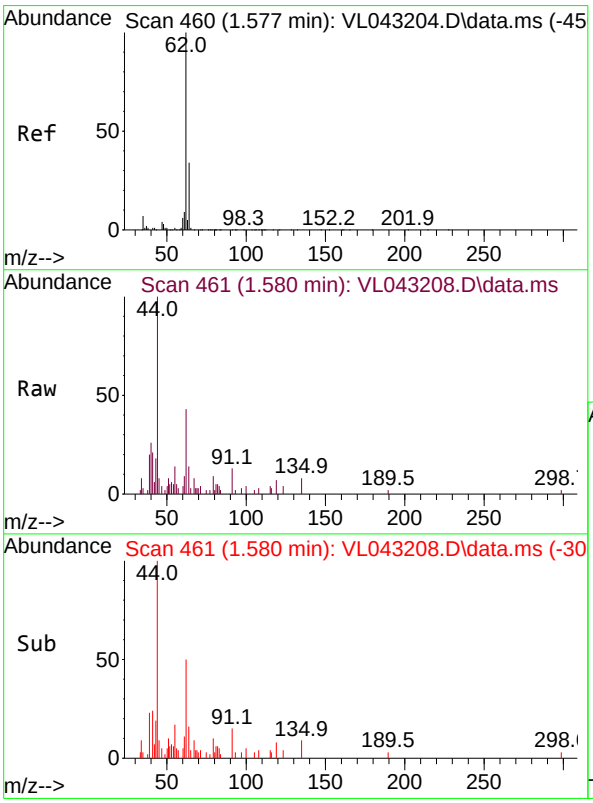
Ion	Ratio	Lower	Upper
49	100		
128	46.8	23.0	69.0
130	58.3	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

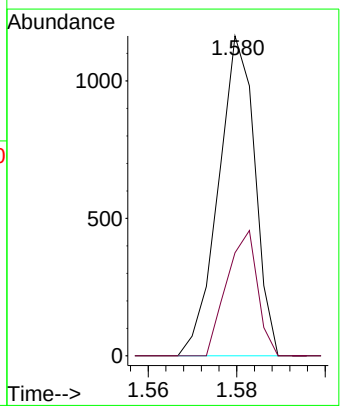
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

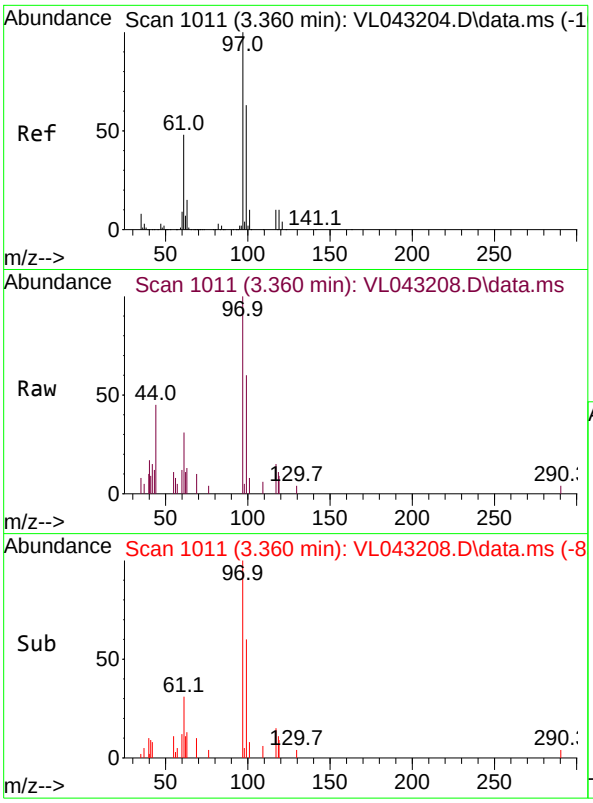


#5
Vinyl Chloride
Concen: 0.114 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 62 Resp: 664

Ion	Ratio	Lower	Upper
62	100		
64	32.2	27.3	40.9

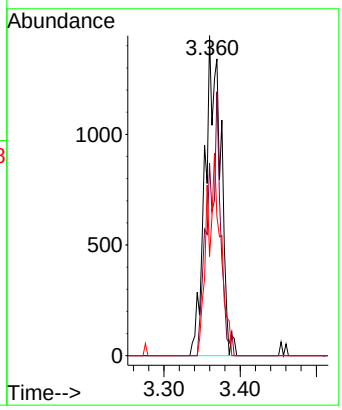




#32
1,1,1-Trichloroethane
Concen: 0.102 ppbv m
RT: 3.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 97 Resp: 207

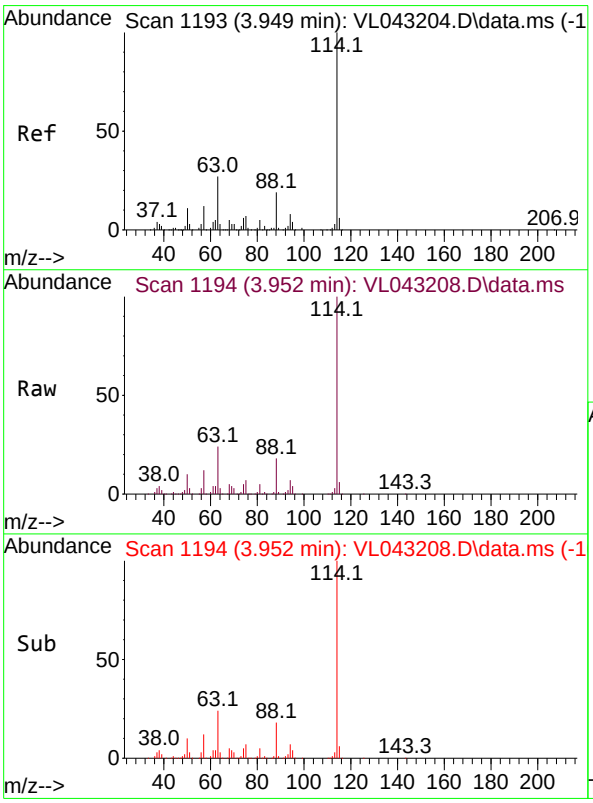
Ion	Ratio	Lower	Upper
97	100		
99	62.7	50.3	75.5
61	53.5	38.9	58.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

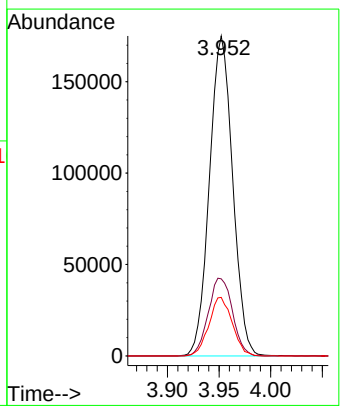
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

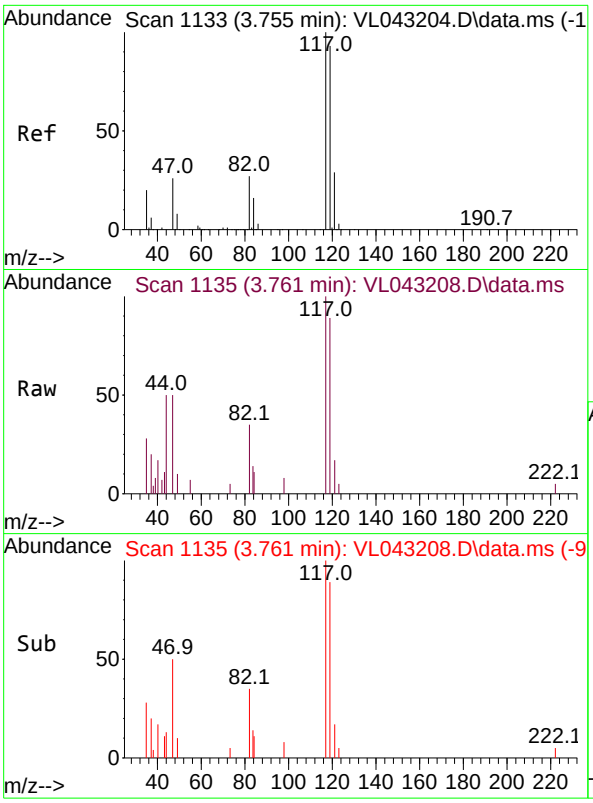


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:114 Resp: 273996

Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.0	31.6
88	18.3	14.9	22.3

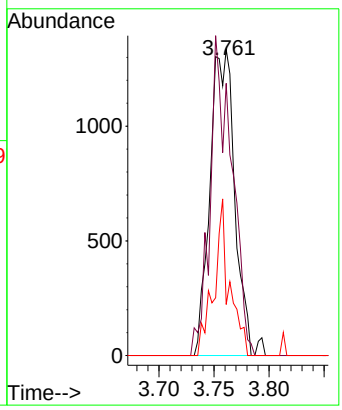




#35
Carbon Tetrachloride
Concen: 0.101 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:117 Resp: 209

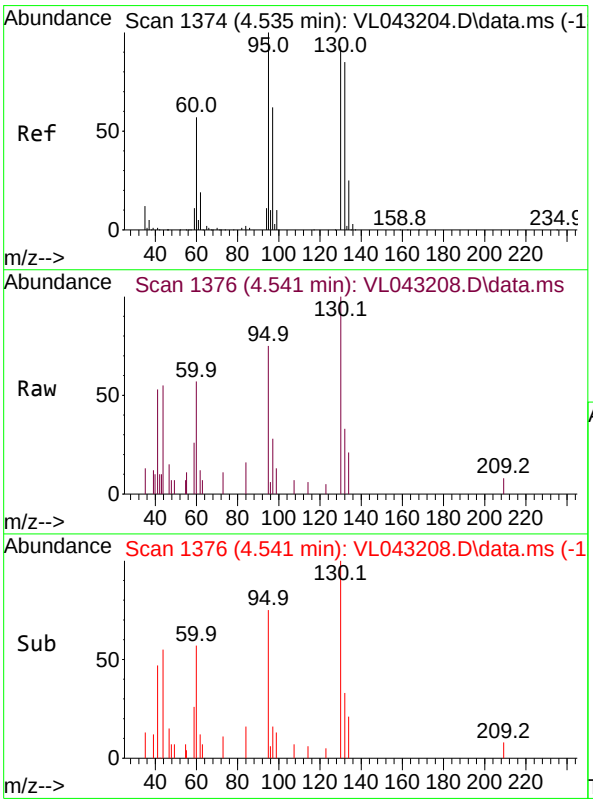
Ion	Ratio	Lower	Upper
117	100		
119	88.9	74.6	112.0
121	16.7	23.2	34.8#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

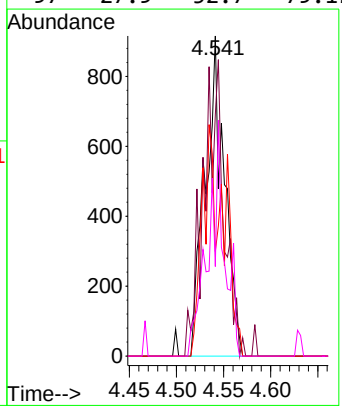
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

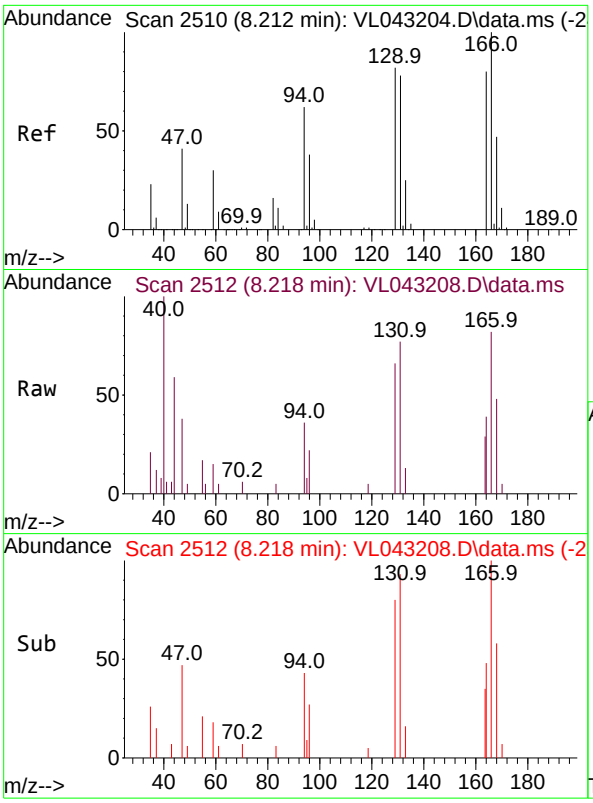


#38
Trichloroethene
Concen: 0.127 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:130 Resp: 1302

Ion	Ratio	Lower	Upper
130	100		
95	75.4	85.7	128.5#
132	32.6	73.4	110.0#
97	27.9	52.7	79.1#

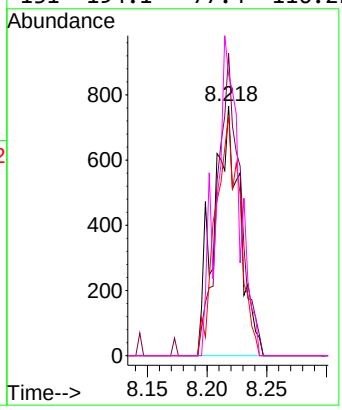




#52
Tetrachloroethene
Concen: 0.119 ppbv m
RT: 8.218 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:164 Resp: 116

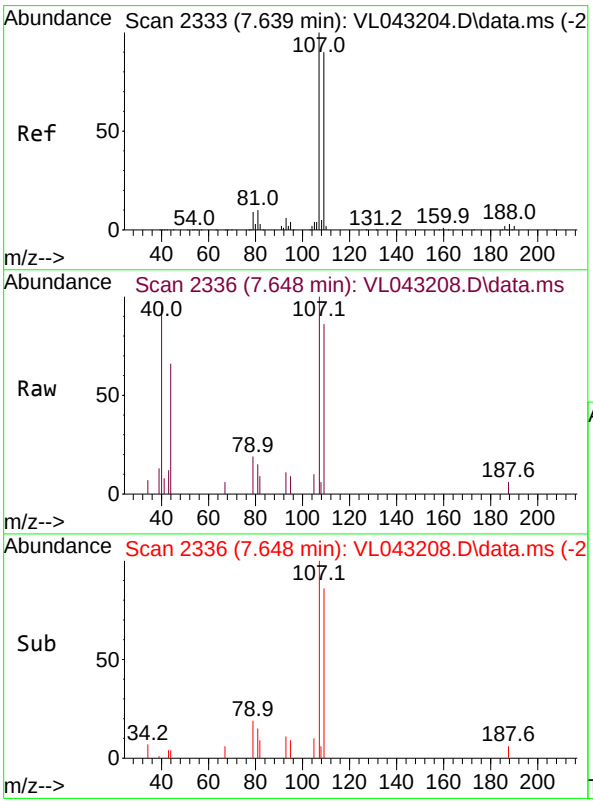
Ion	Ratio	Lower	Upper
164	100		
166	209.0	99.4	149.2#
129	166.4	81.8	122.8#
131	194.1	77.4	116.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

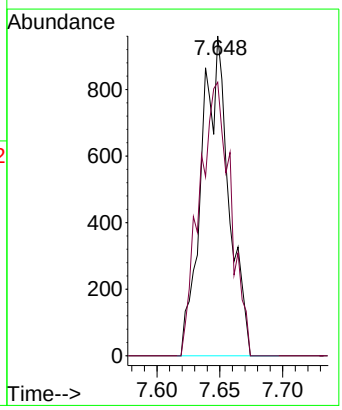
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

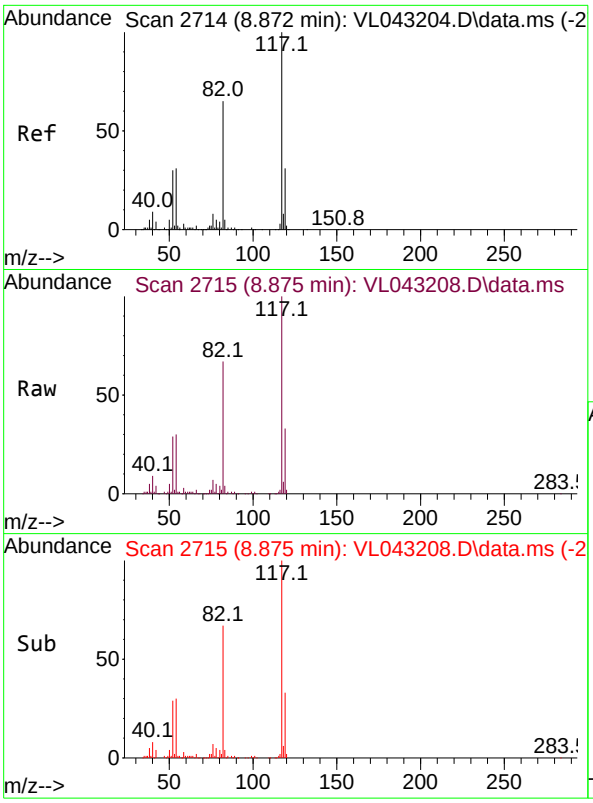


#54
1,2-Dibromoethane
Concen: 0.096 ppbv m
RT: 7.648 min Scan# 2336
Delta R.T. 0.009 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:107 Resp: 1446

Ion	Ratio	Lower	Upper
107	100		
109	85.5	72.1	108.1

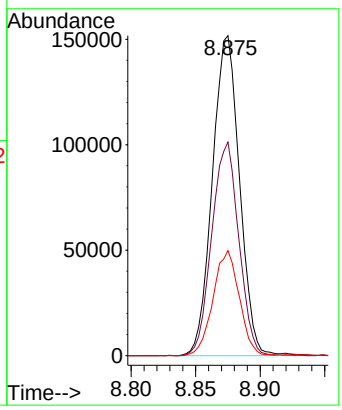




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:117 Resp: 22203

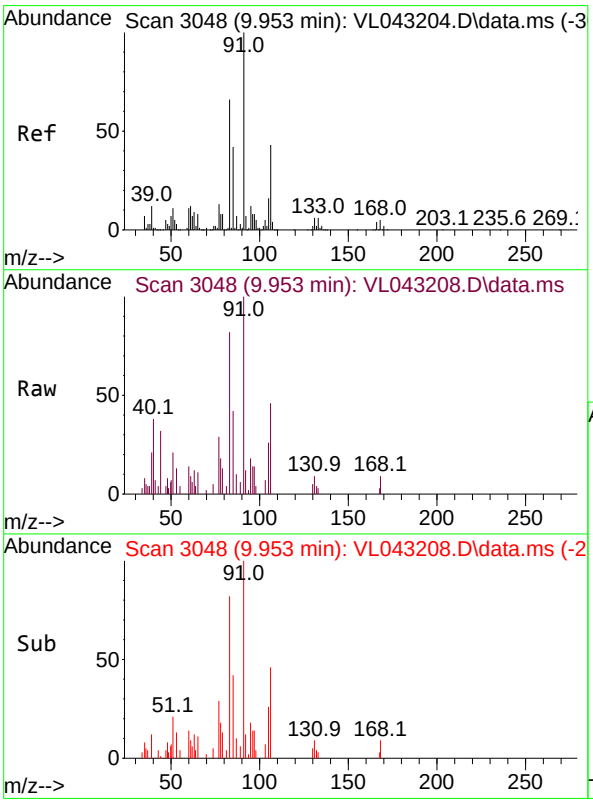
Ion	Ratio	Lower	Upper
117	100		
82	66.4	56.1	84.1
119	32.2	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

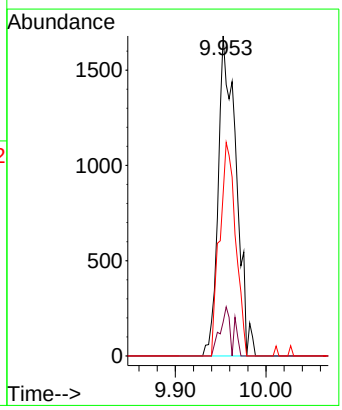
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

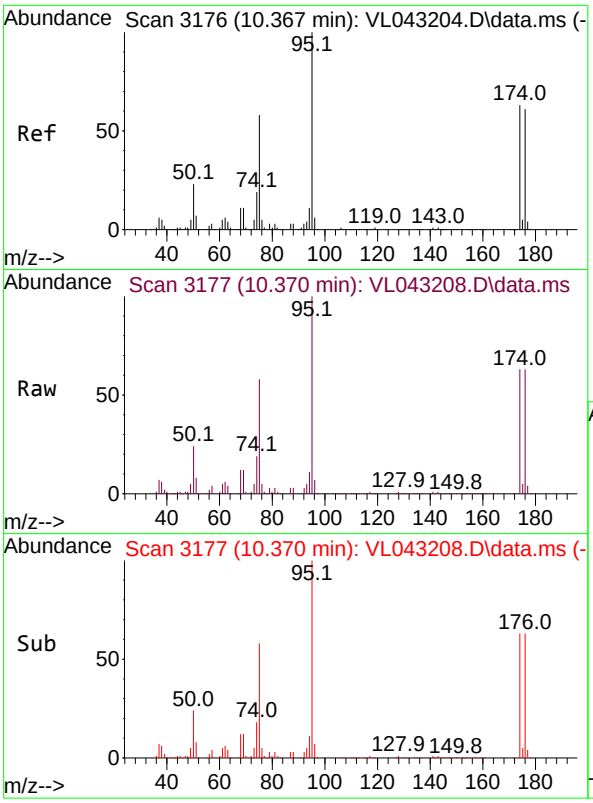


#63
1,1,2,2-Tetrachloroethane
Concen: 0.106 ppbv m
RT: 9.953 min Scan# 3048
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 83 Resp: 2296

Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.8	14.3
85	59.6	31.9	95.9

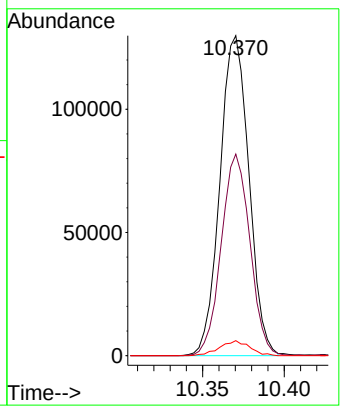




#68
1-Bromo-4-Fluorobenzene
Concen: 9.890 ppbv
RT: 10.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 95 Resp: 160968

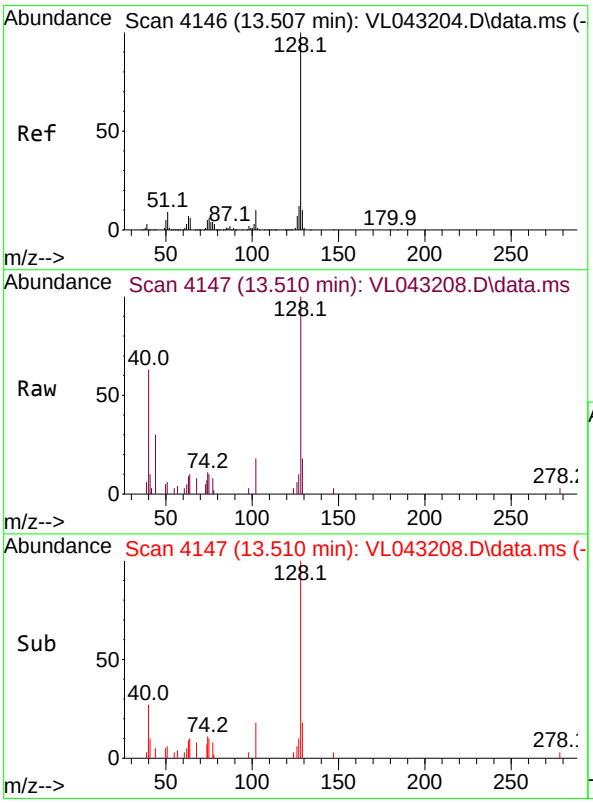
Ion	Ratio	Lower	Upper
95	100		
174	62.5	50.2	75.2
175	4.8	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

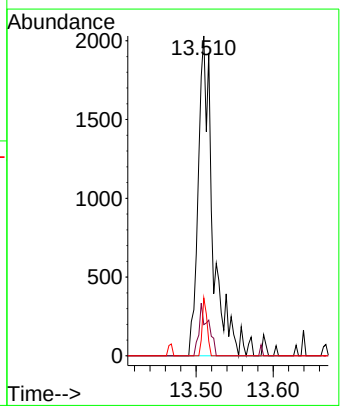
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#79
Naphthalene
Concen: 0.081 ppbv m
RT: 13.510 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:128 Resp: 2732

Ion	Ratio	Lower	Upper
128	100		
127	9.7	9.9	14.9#
129	18.1	8.4	12.6#



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043209.D
Acq On : 18 Nov 2025 12:49
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:52:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	98952	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	266012	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	213547	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	152015	9.712	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.100%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	215m	0.038	ppbv	
32) 1,1,1-Trichloroethane	3.357	97	628m	0.032	ppbv	
35) Carbon Tetrachloride	3.758	117	664m	0.033	ppbv	
38) Trichloroethene	4.542	130	234m	0.023	ppbv	
52) Tetrachloroethene	8.222	164	290m	0.031	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	640m	0.031	ppbv	

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

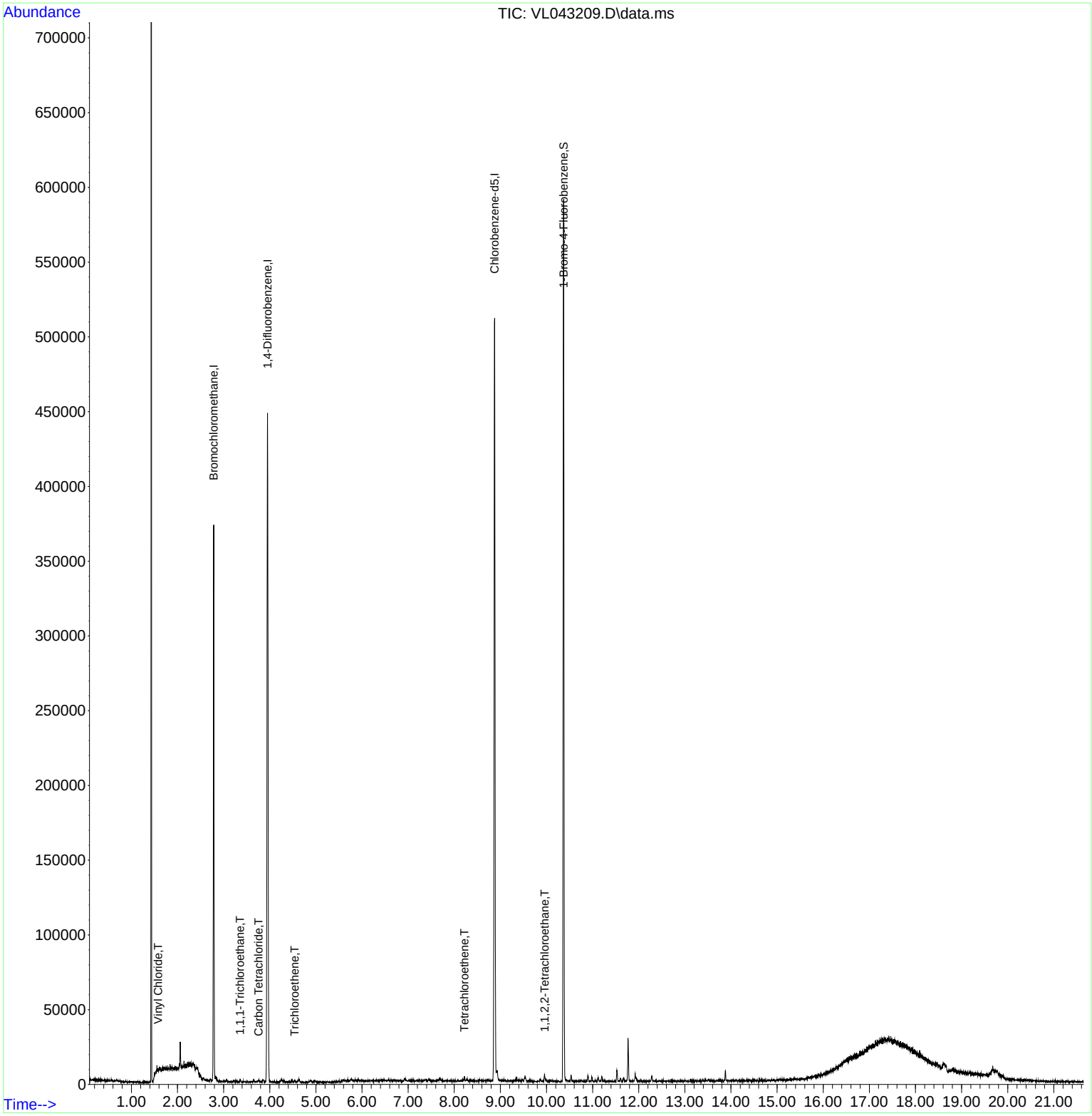
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043209.D
Acq On : 18 Nov 2025 12:49
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

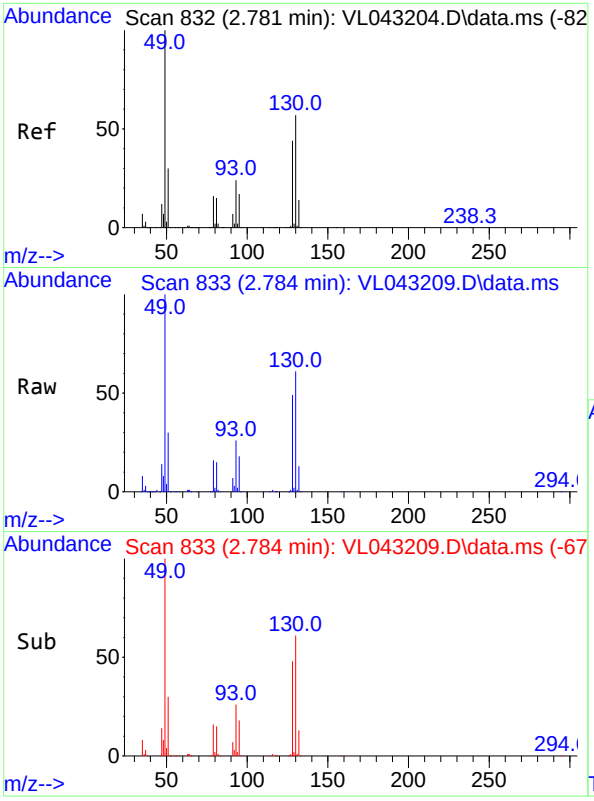
Quant Time: Nov 19 00:52:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

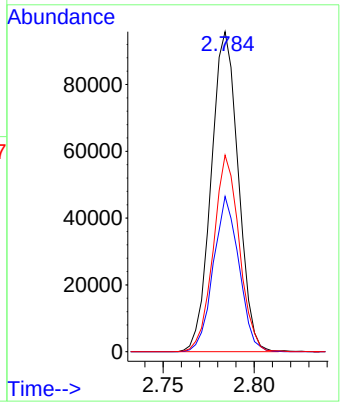




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 49 Resp: 9895

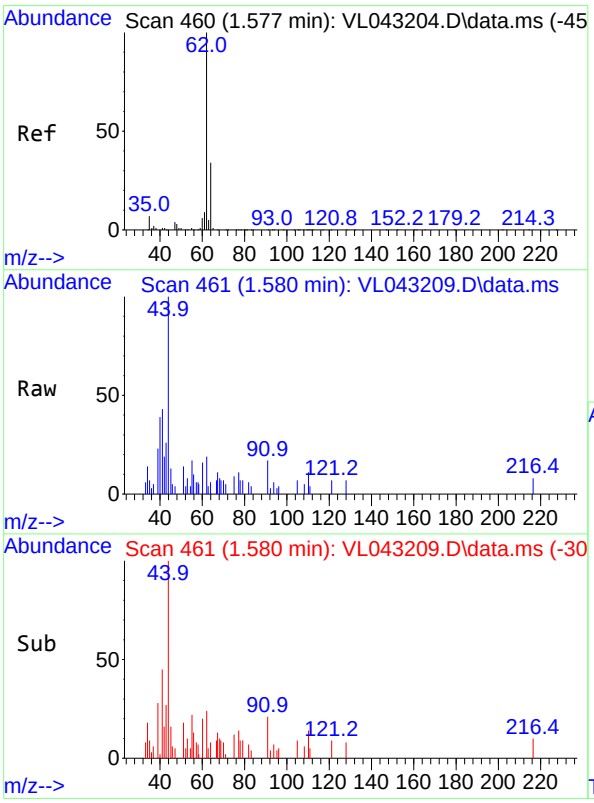
Ion	Ratio	Lower	Upper
49	100		
128	45.9	23.0	69.0
130	58.8	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

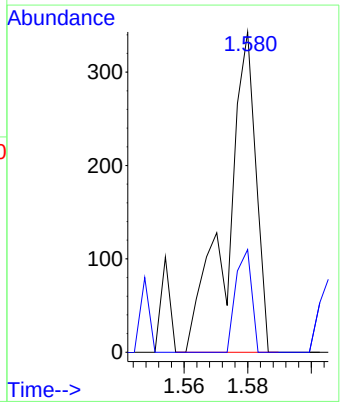
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

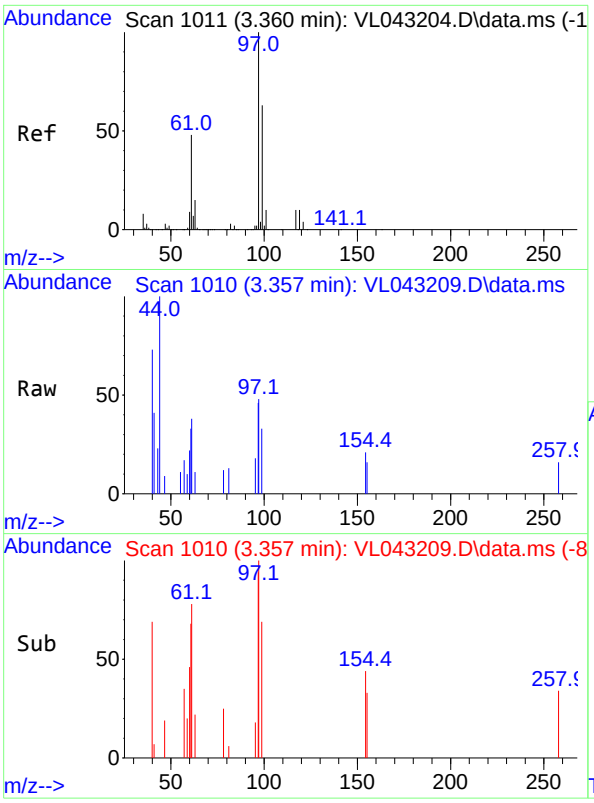


#5
Vinyl Chloride
Concen: 0.038 ppbv m
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 62 Resp: 215

Ion	Ratio	Lower	Upper
62	100		
64	32.1	27.3	40.9

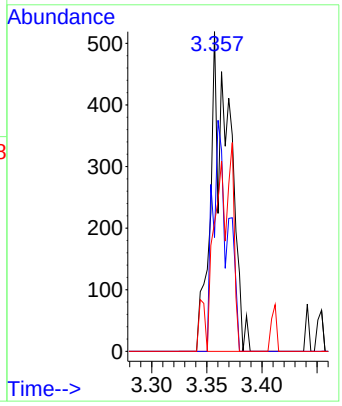




#32
1,1,1-Trichloroethane
Concen: 0.032 ppbv m
RT: 3.357 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 97 Resp: 62

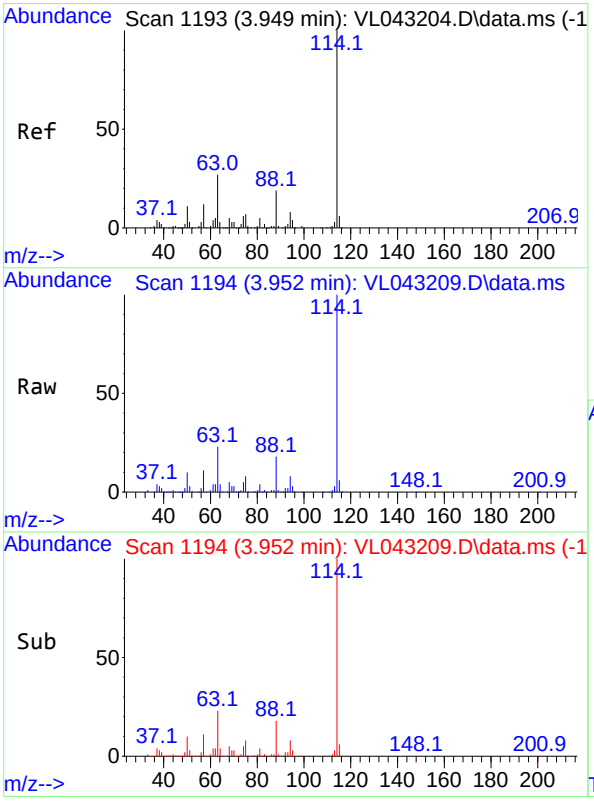
Ion	Ratio	Lower	Upper
97	100		
99	56.8	50.3	75.5
61	0.0	38.9	58.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

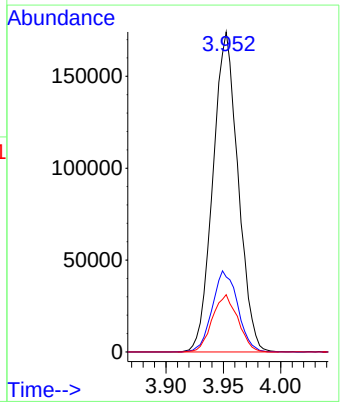
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

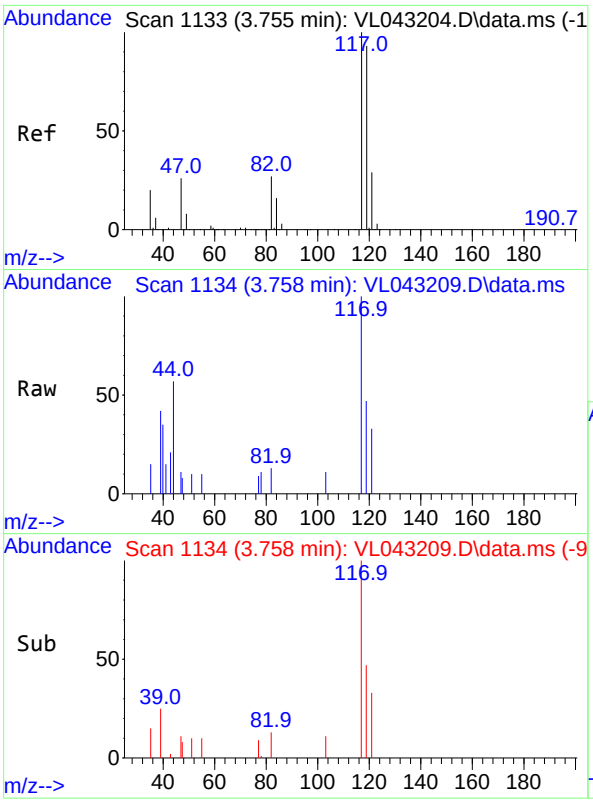


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:114 Resp: 266012

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.2	14.9	22.3

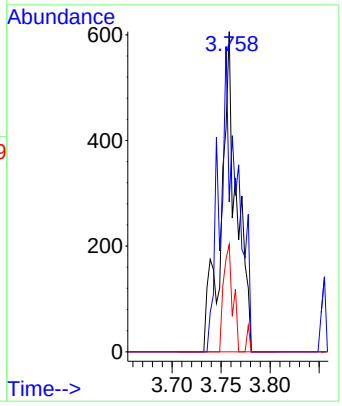




#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.758 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:117 Resp: 66

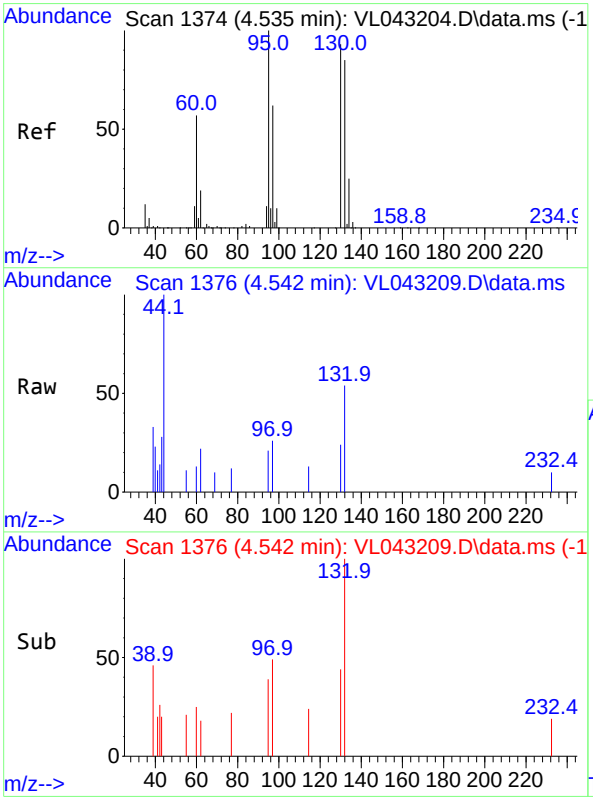
Ion	Ratio	Lower	Upper
117	100		
119	46.9	74.6	112.0#
121	33.5	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

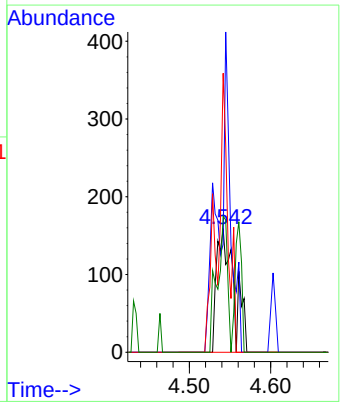
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

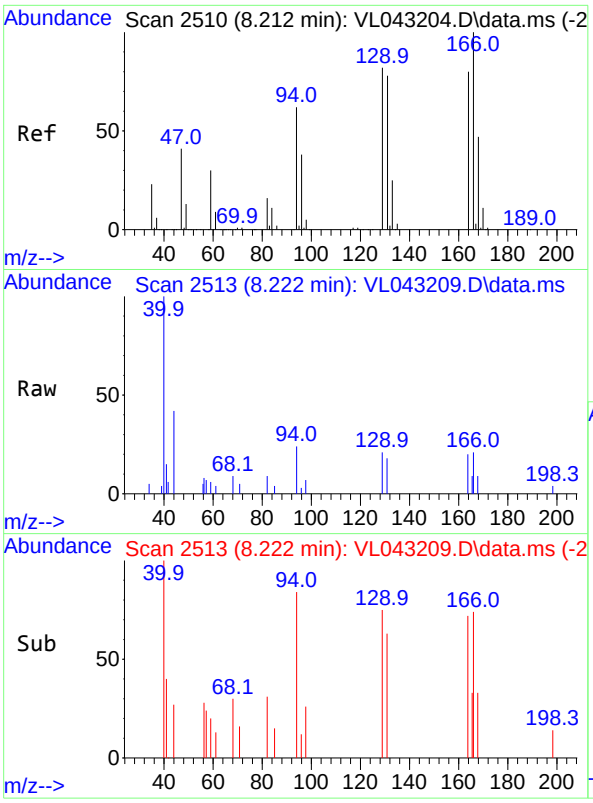


#38
Trichloroethene
Concen: 0.023 ppbv m
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:130 Resp: 234

Ion	Ratio	Lower	Upper
130	100		
95	87.4	85.7	128.5
132	225.8	73.4	110.0#
97	110.1	52.7	79.1#

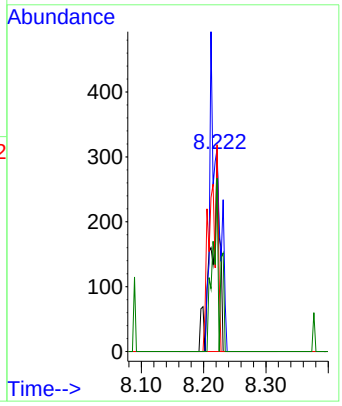




#52
Tetrachloroethene
Concen: 0.031 ppbv m
RT: 8.222 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:164 Resp: 29

Ion	Ratio	Lower	Upper
164	100		
166	102.3	99.4	149.2
129	104.6	81.8	122.8
131	87.5	77.4	116.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
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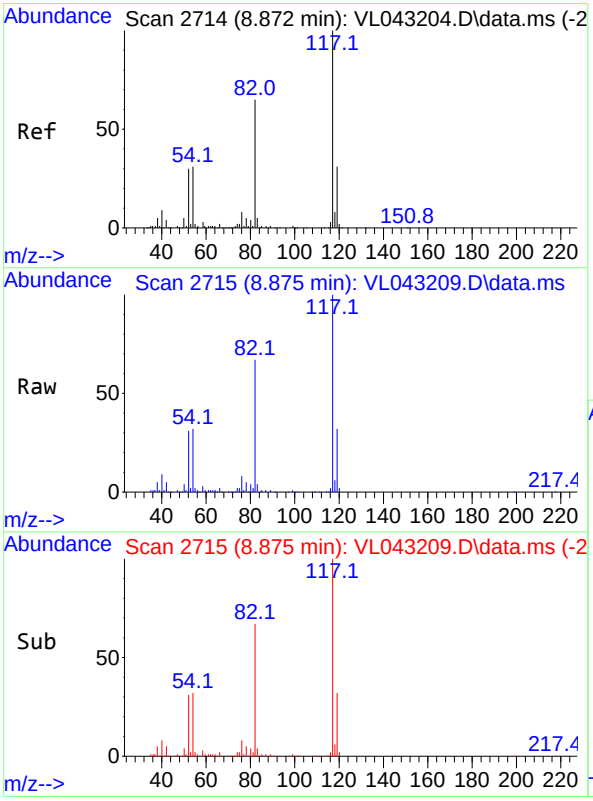
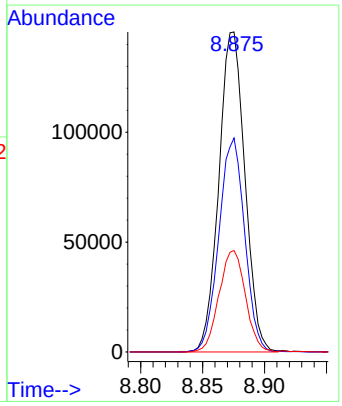
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

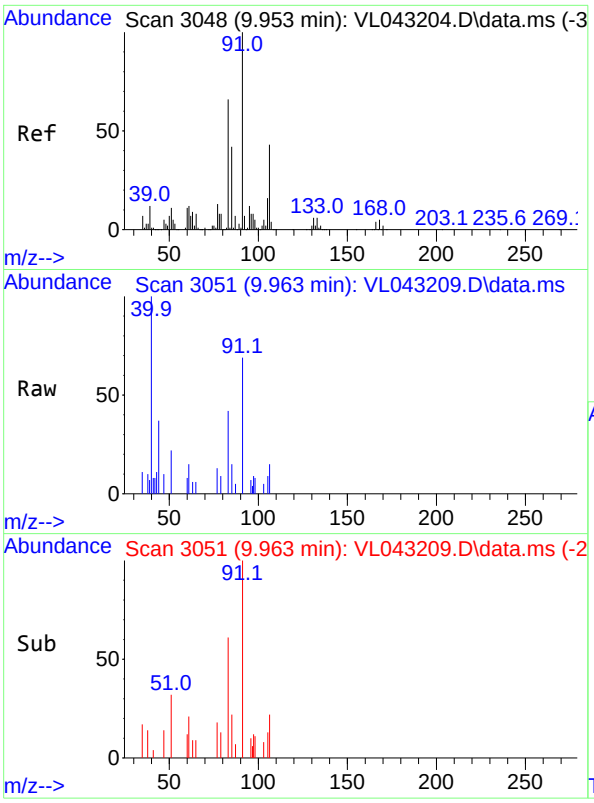


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:117 Resp: 213547

Ion	Ratio	Lower	Upper
117	100		
82	66.2	56.1	84.1
119	32.3	25.0	37.6

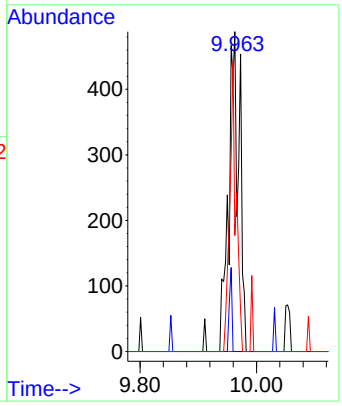




#63
1,1,2,2-Tetrachloroethane
Concen: 0.031 ppbv m
RT: 9.963 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 83 Resp: 64

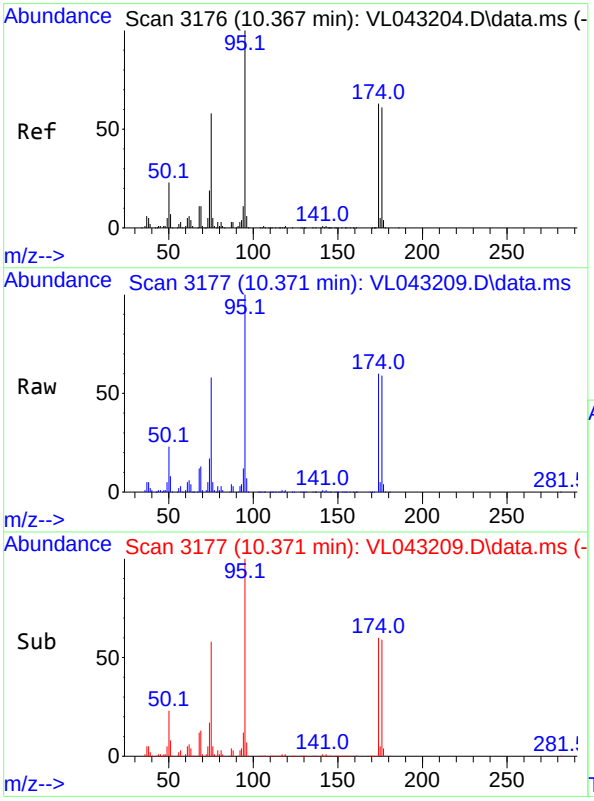
Ion	Ratio	Lower	Upper
83	100		
131	6.1	4.8	14.3
85	52.8	31.9	95.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

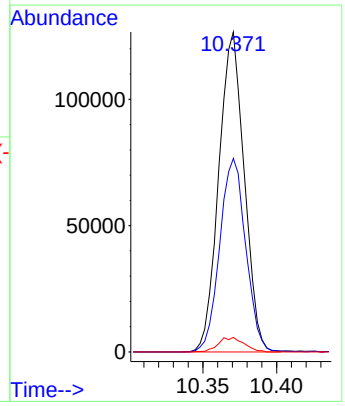
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.712 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 95 Resp: 152015

Ion	Ratio	Lower	Upper
95	100		
174	62.0	50.2	75.2
175	4.6	4.1	6.1



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043210.D
Acq On : 18 Nov 2025 13:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	98968	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	258461	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	211247	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	159814	10.321	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	197987	14.184	ppbv	99
3) Chlorodifluoromethane	1.476	51	182813	13.317	ppbv	98
4) Chloromethane	1.531	50	72636	13.918	ppbv	97
5) Vinyl Chloride	1.580	62	71671	12.557	ppbv	96
6) Bromomethane	1.667	94	38265	13.830	ppbv	98
7) Chloroethane	1.703	64	29584	13.309	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	165709	14.271	ppbv	97
9) Propene	1.483	41	81393m	12.782	ppbv	
10) Heptane	4.972	43	225935	12.934	ppbv	100
11) Trichlorofluoromethane	1.874	101	200703	14.840	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	152772	14.469	ppbv	98
13) Ethanol	1.719	45	25468	12.425	ppbv	99
14) Bromoethene	1.781	108	55813	13.789	ppbv	96
15) Acetone	1.832	43	161036	11.712	ppbv	99
16) 1,3-Butadiene	1.609	39	81077	13.226	ppbv	99
17) tert-Butyl alcohol	2.036	59	257617	14.274	ppbv	99
18) 1,1-Dichloroethene	2.033	96	65731	13.370	ppbv	96
19) Isopropyl Alcohol	1.881	45	105271	13.549	ppbv	99
20) Methylene Chloride	2.059	84	59798	15.164	ppbv	93
21) Allyl Chloride	2.094	41	126959	13.724	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	77386	13.772	ppbv	94
23) Vinyl Acetate	2.457	43	232315	13.995	ppbv	99
24) 1,1-Dichloroethane	2.405	63	155017	14.292	ppbv	98
25) Ethyl Acetate	2.829	43	394074	13.265	ppbv	99
26) Hexane	2.823	57	172303	13.252	ppbv	97
27) Carbon Disulfide	2.150	76	191612	14.435	ppbv	97
28) Methyl tert-Butyl Ether	2.434	73	91132	14.279	ppbv	97
29) Chloroform	2.845	83	262803	14.221	ppbv	100
30) Cyclohexane	3.852	84	152015	13.946	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	180647	13.978	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	276915	13.930	ppbv	98
34) 2-Butanone	2.551	43	253855	13.914	ppbv	100
35) Carbon Tetrachloride	3.755	117	279560	14.250	ppbv	96
36) Benzene	3.651	78	348892	14.096	ppbv	99
37) 1,2-Dichloroethane	3.214	62	214248	14.798	ppbv	98
38) Trichloroethene	4.541	130	137027	14.123	ppbv	93
39) 1,2-Dichloropropane	4.302	63	128700	14.206	ppbv	98
40) 1,4-Dioxane	4.571	88	55905	13.728	ppbv #	95
41) Tetrahydrofuran	3.043	42	139722	13.868	ppbv	99
42) Bromodichloromethane	4.480	83	294008	14.721	ppbv	97
43) Methyl Methacrylate	4.872	69	179110	13.633	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	595778	14.014	ppbv	99
45) t-1,3-Dichloropropene	6.406	75	177678	14.508	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043210.D
Acq On : 18 Nov 2025 13:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.587	75	205226	14.270	ppbv		100
47)	1,1,2-Trichloroethane	6.571	97	132701	13.738	ppbv		92
48)	Dibromochloromethane	7.377	129	240736	14.564	ppbv		99
49)	Bromoform	9.477	173	211325	14.434	ppbv		99
50)	4-Methyl-2-Pentanone	5.732	43	354421	13.790	ppbv		99
51)	2-Hexanone	7.422	43	280742	14.067	ppbv	#	100
52)	Tetrachloroethene	8.218	164	125132	13.591	ppbv		93
53)	Toluene	6.924	91	414411	14.050	ppbv		99
54)	1,2-Dibromoethane	7.642	107	203913	14.413	ppbv		99
56)	1,1,1,2-Tetrachloroethane	8.917	131	214673	13.827	ppbv		99
57)	Chlorobenzene	8.914	112	301986	13.923	ppbv		98
58)	Ethyl Benzene	9.348	91	579890	14.262	ppbv		99
59)	m/p-Xylene	9.545	91	916113m	28.000	ppbv		
60)	o-Xylene	9.956	91	450260	13.826	ppbv		99
61)	Styrene	9.862	104	204972	14.382	ppbv		99
62)	Isopropylbenzene	10.532	105	803487	13.791	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.956	83	280254	13.557	ppbv		99
64)	n-propylbenzene	10.986	120	205637	13.737	ppbv		100
65)	tert-Butylbenzene	11.526	119	689352	13.249	ppbv		98
66)	Benzyl Chloride	11.610	91	71386	13.520	ppbv		100
67)	sec-Butylbenzene	11.762	105	972780	13.394	ppbv		100
69)	p-Isopropyltoluene	11.921	119	836888	13.602	ppbv		99
70)	n-Butylbenzene	12.277	91	838598	14.050	ppbv		99
71)	2-Chlorotoluene	10.895	91	625884	13.976	ppbv		100
72)	4-Ethyltoluene	11.121	105	553654	13.961	ppbv		99
73)	1,3,5-Trimethylbenzene	11.199	105	460783	13.846	ppbv		97
74)	1,2,4-Trimethylbenzene	11.533	105	486995	13.409	ppbv		97
75)	1,3-Dichlorobenzene	11.604	146	292143	13.784	ppbv		99
76)	1,4-Dichlorobenzene	11.668	146	294723	13.903	ppbv		99
77)	1,2-Dichlorobenzene	11.944	146	273467	13.420	ppbv		98
78)	Hexachloro-1,3-Butadiene	13.876	225	211153	12.416	ppbv		99
79)	Naphthalene	13.510	128	473229	14.670	ppbv		99
80)	Naphthalene,2-methyl-	14.452	142	139019	16.418	ppbv		99
81)	1,2,4-Trichlorobenzene	13.436	180	216260	14.990	ppbv		99

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

Quantitation Report (QT Reviewed)

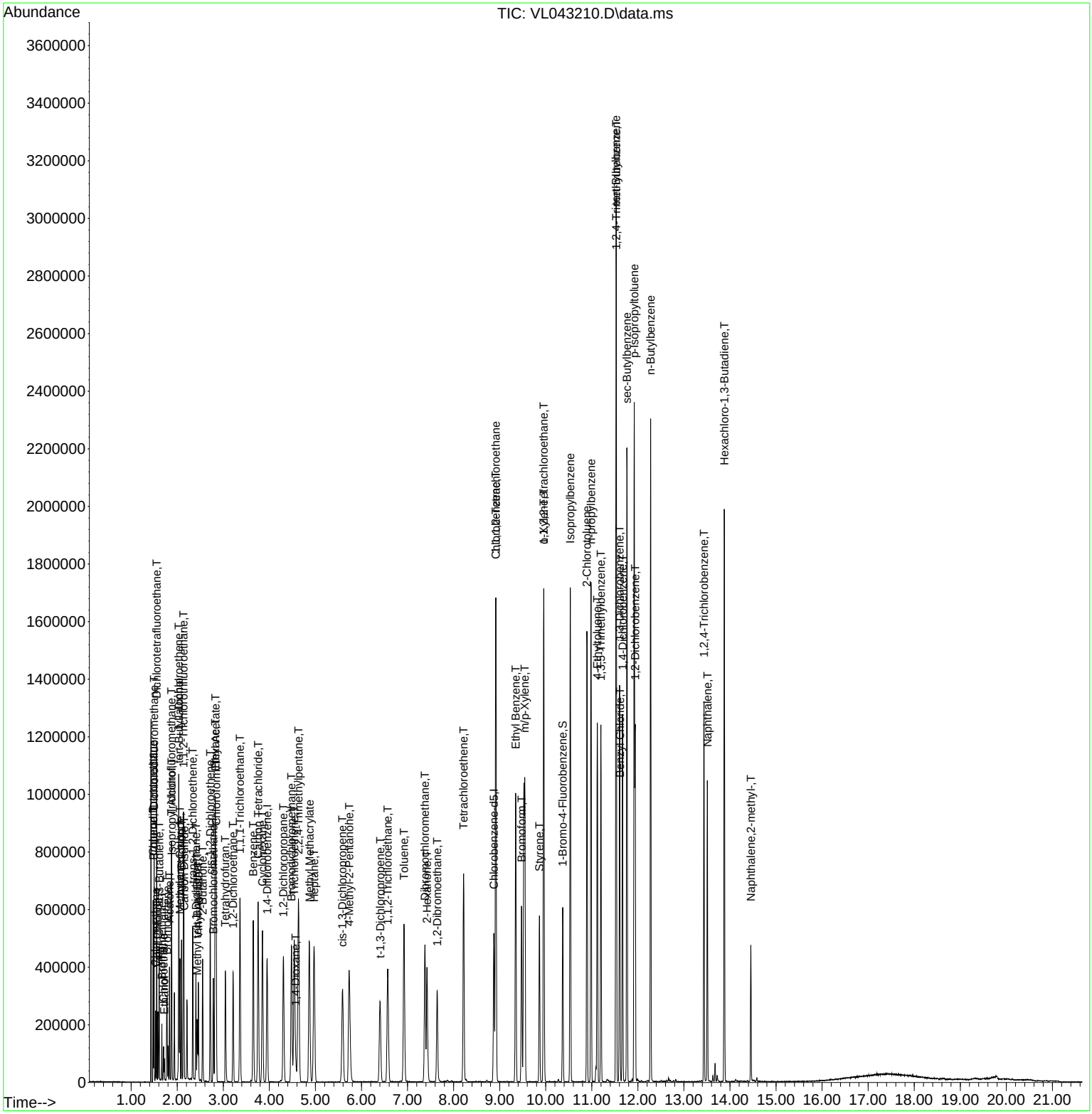
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043210.D
Acq On : 18 Nov 2025 13:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

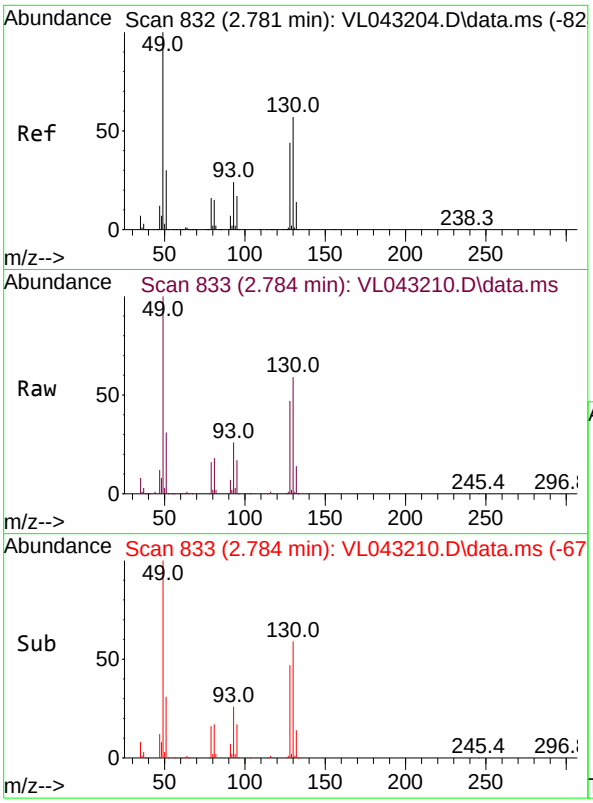
Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

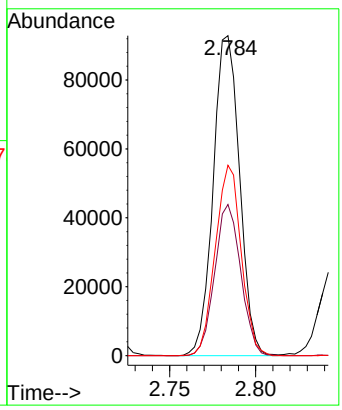




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 49 Resp: 9896

Ion	Ratio	Lower	Upper
49	100		
128	46.7	23.0	69.0
130	58.4	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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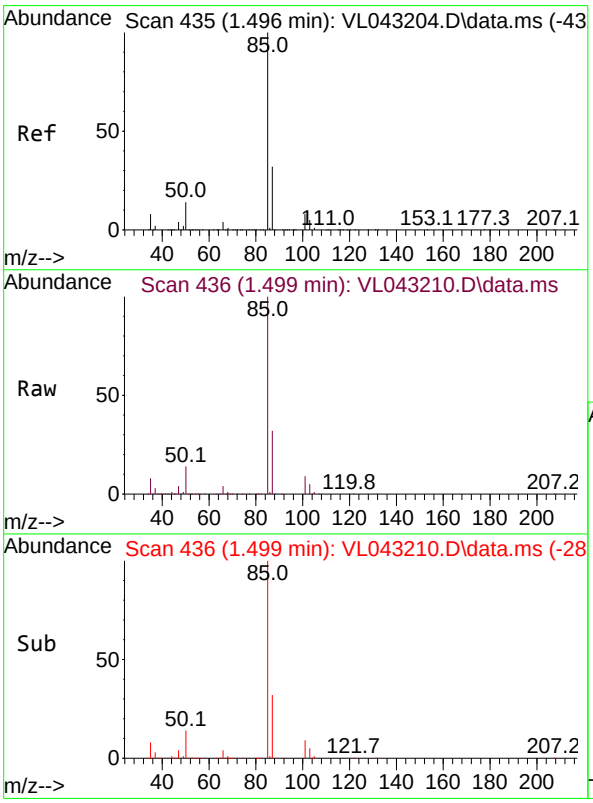
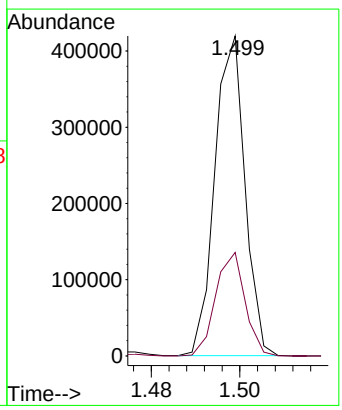
Supervised By :Mahesh Dadoda 11/19/2025

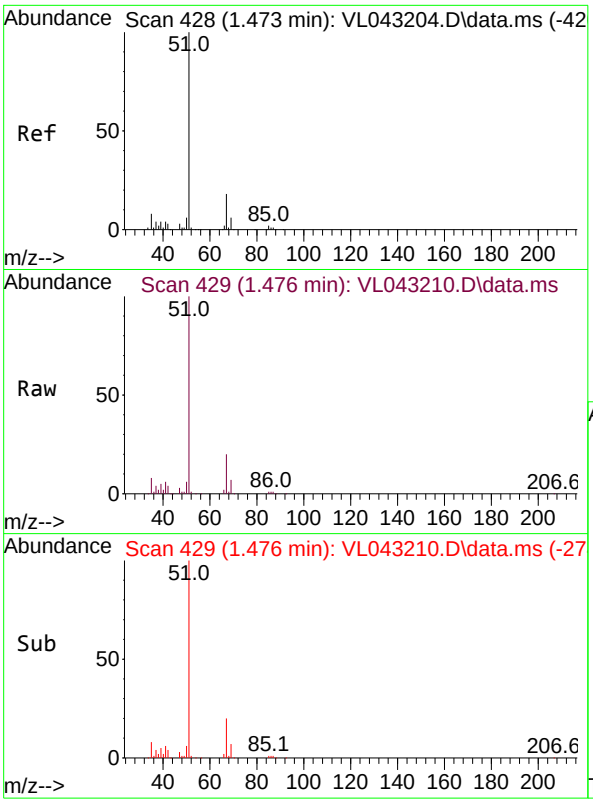


#2
Dichlorodifluoromethane
Concen: 14.184 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 85 Resp: 197987

Ion	Ratio	Lower	Upper
85	100		
87	32.4	25.4	38.2

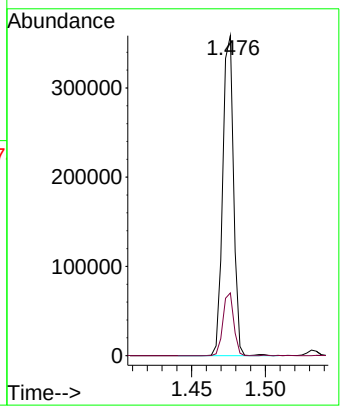




#3
Chlorodifluoromethane
Concen: 13.317 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 51 Resp: 18281

Ion	Ratio	Lower	Upper
51	100		
67	19.7	14.9	22.3



Instrument :
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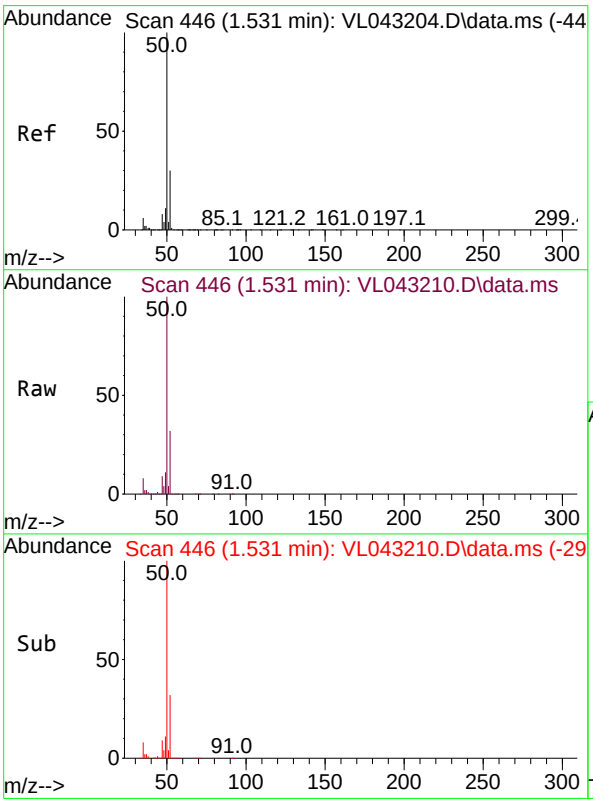
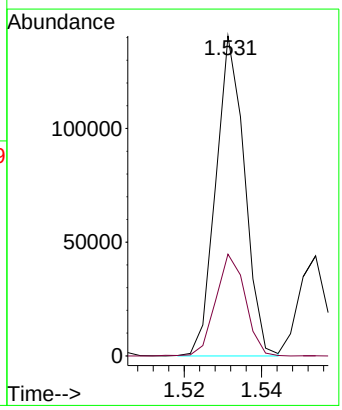
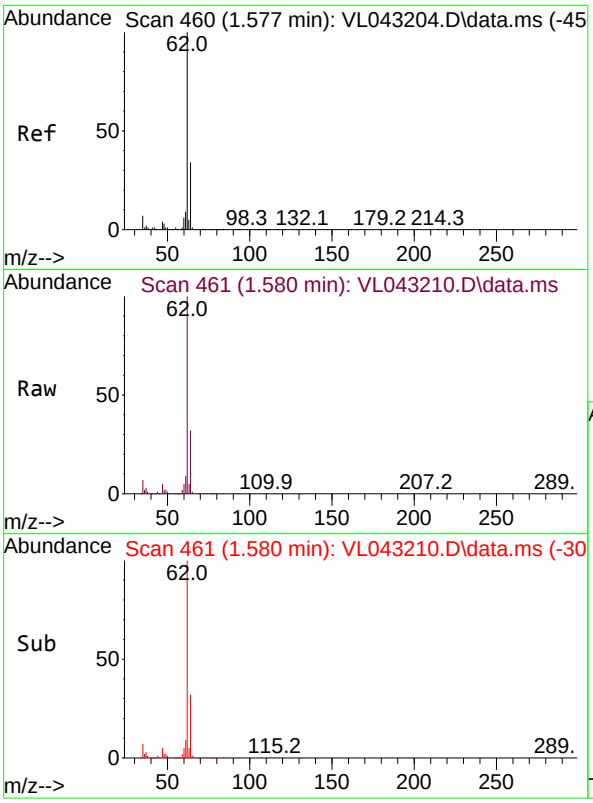


#4
Chloromethane
Concen: 13.918 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 50 Resp: 72636

Ion	Ratio	Lower	Upper
50	100		
52	31.7	24.1	36.1

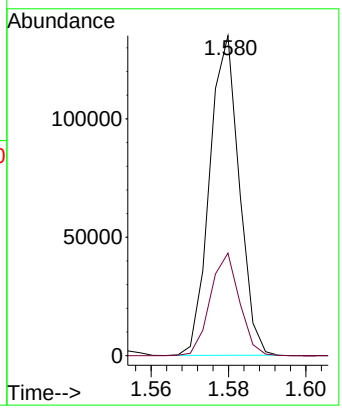




#5
Vinyl Chloride
Concen: 12.557 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 62 Resp: 7167

Ion	Ratio	Lower	Upper
62	100		
64	32.0	27.3	40.9



Instrument :
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ClientSampleId :
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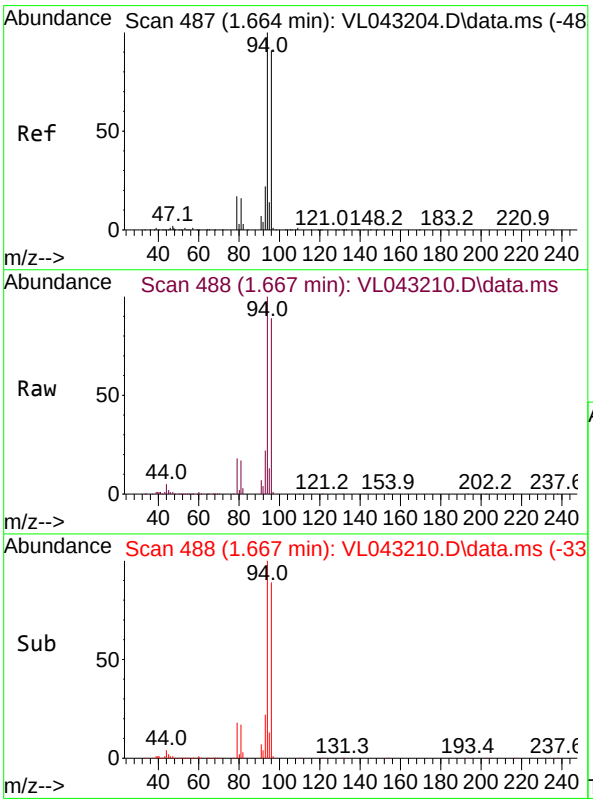
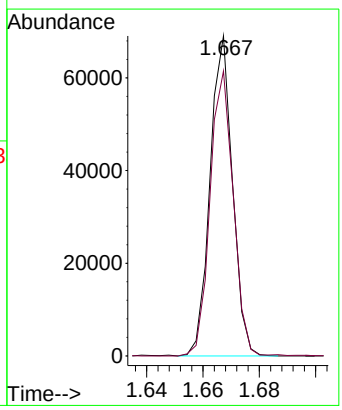
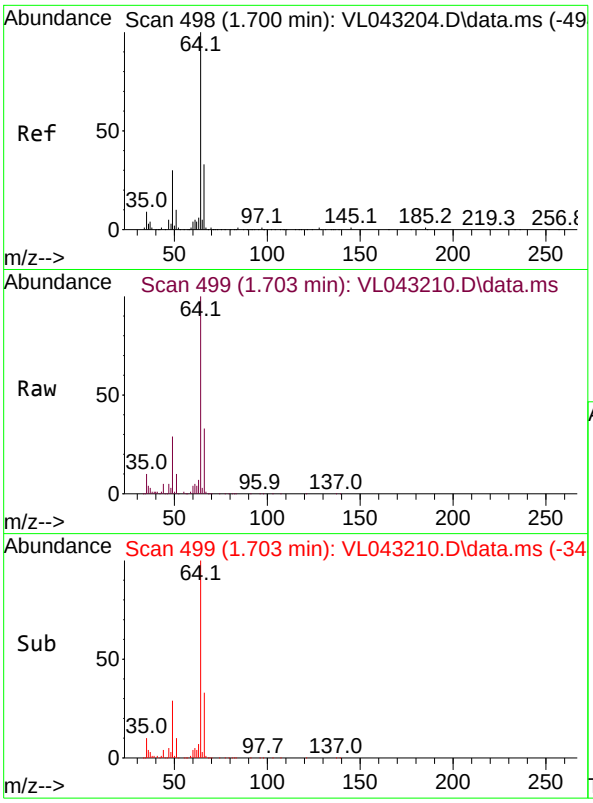


#6
Bromomethane
Concen: 13.830 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 94 Resp: 38265

Ion	Ratio	Lower	Upper
94	100		
96	89.0	72.9	109.3

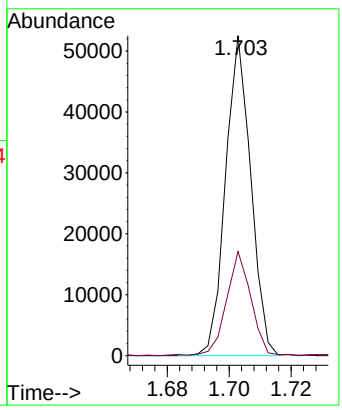




#7
Chloroethane
Concen: 13.309 ppbv
RT: 1.703 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 64 Resp: 2958

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.8	40.2



Instrument :
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ClientSampleId :
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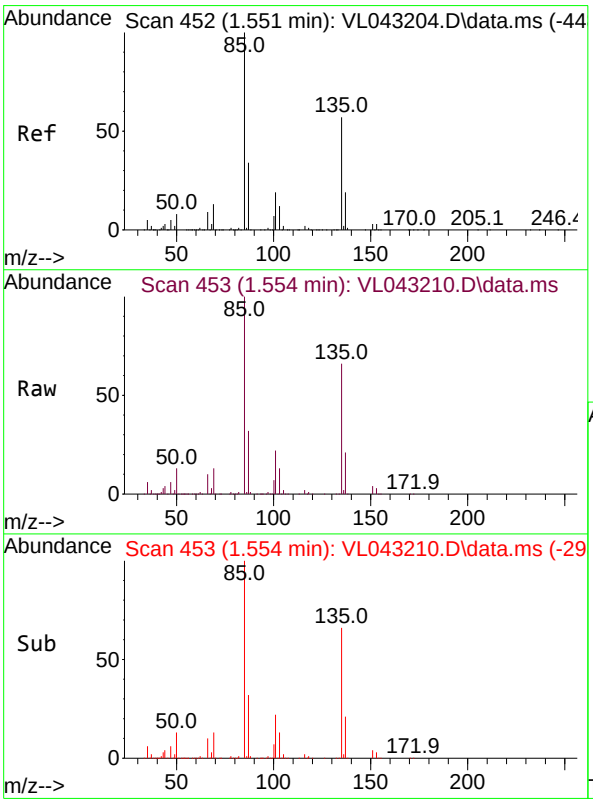
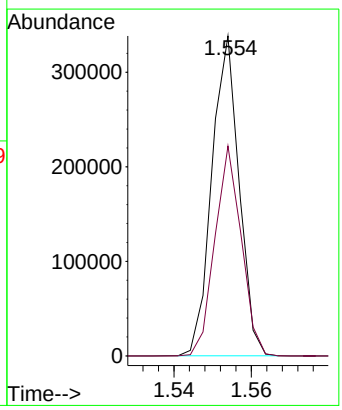
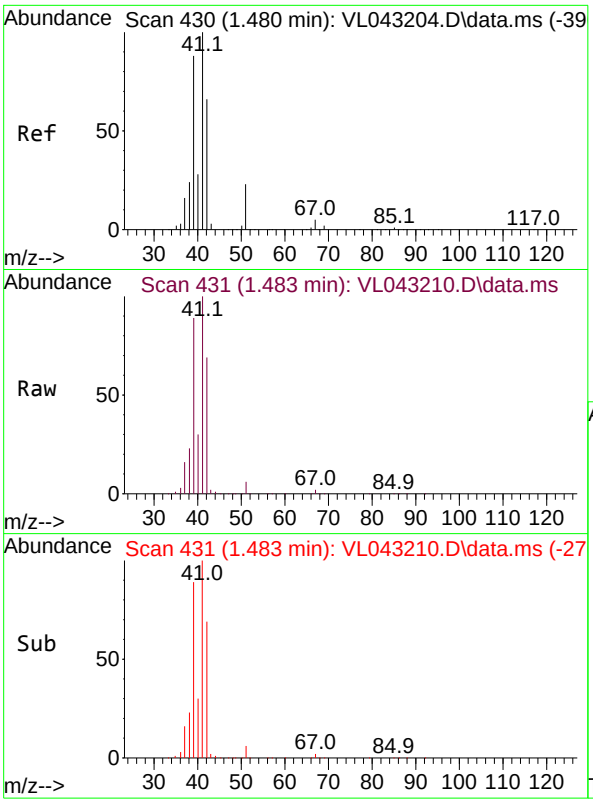


#8
Dichlorotetrafluoroethane
Concen: 14.271 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 85 Resp: 165709

Ion	Ratio	Lower	Upper
85	100		
135	63.7	52.6	79.0

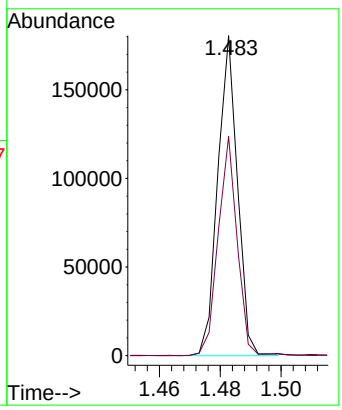




#9
Propene
Concen: 12.782 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 41 Resp: 8139

Ion	Ratio	Lower	Upper
41	100		
42	4.8	3.7	5.5



Instrument :
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ClientSampleId :
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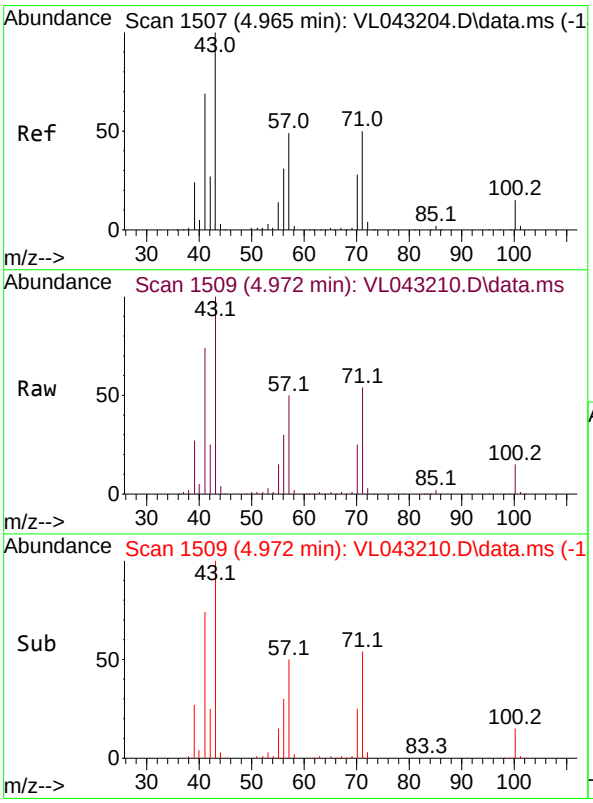
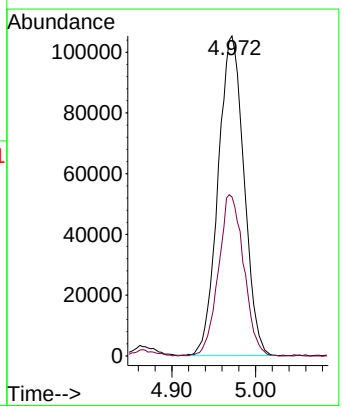
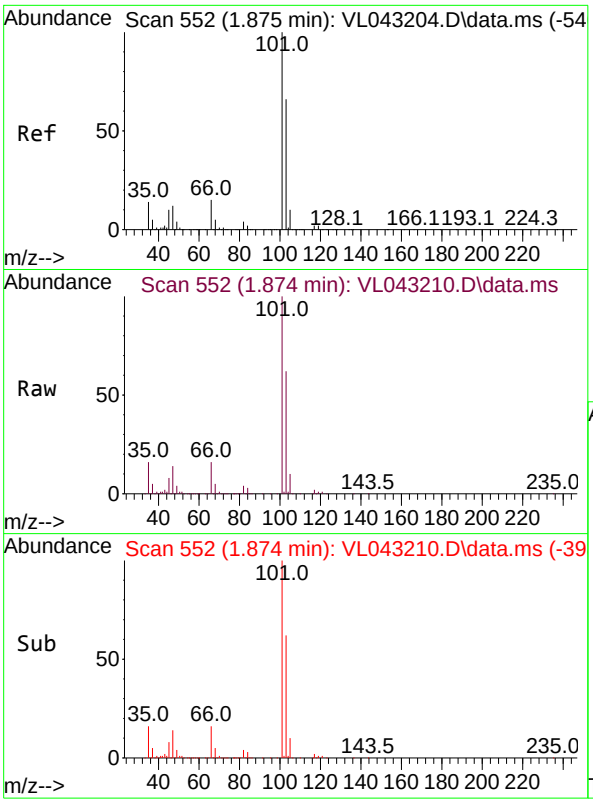


#10
Heptane
Concen: 12.934 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 225935

Ion	Ratio	Lower	Upper
43	100		
57	49.4	39.7	59.5

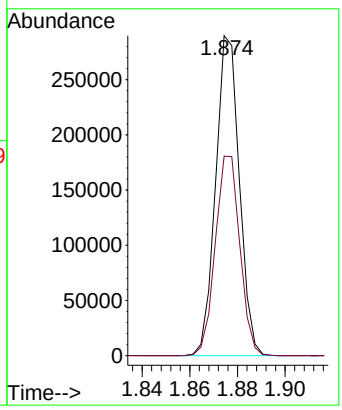




#11
Trichlorofluoromethane
Concen: 14.840 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:101 Resp: 20070

Ion	Ratio	Lower	Upper
101	100		
103	62.3	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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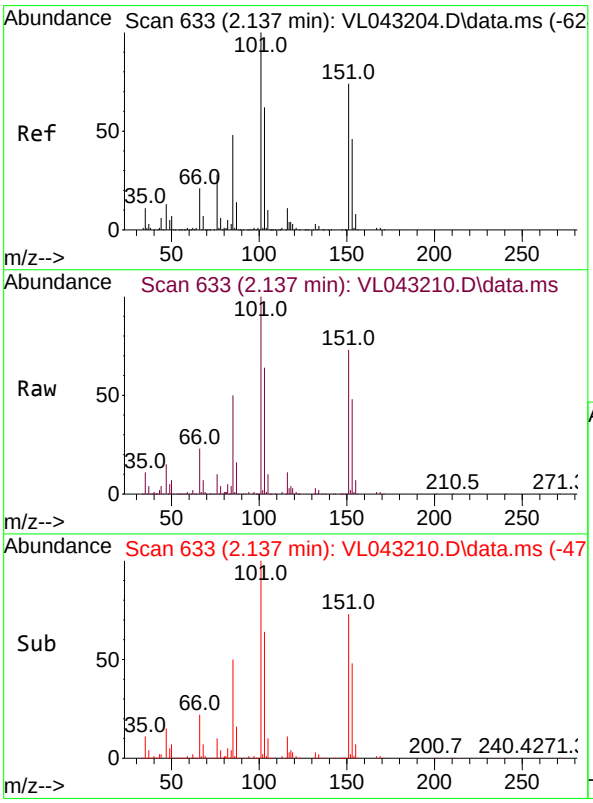
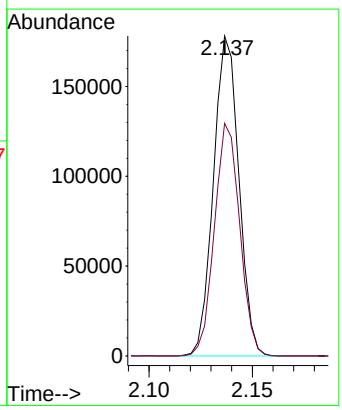
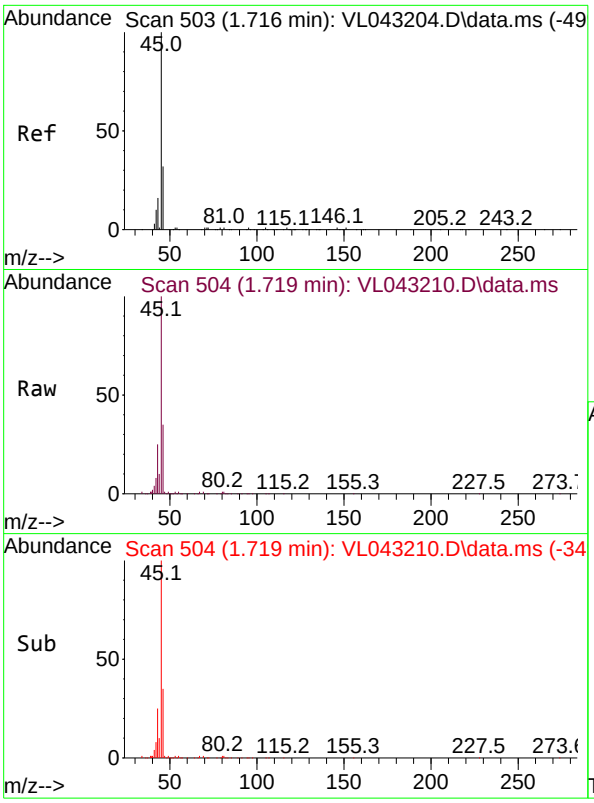


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.469 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:101 Resp: 152772

Ion	Ratio	Lower	Upper
101	100		
151	72.3	59.2	88.8

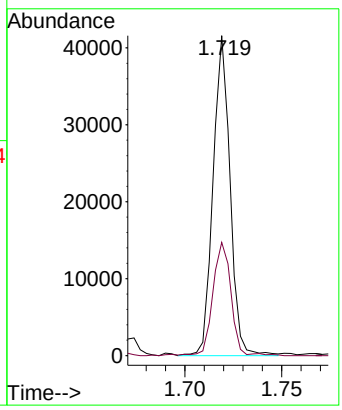




#13
Ethanol
Concen: 12.425 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 45 Resp: 2546

Ion	Ratio	Lower	Upper
45	100		
46	37.9	15.0	59.8



Instrument :
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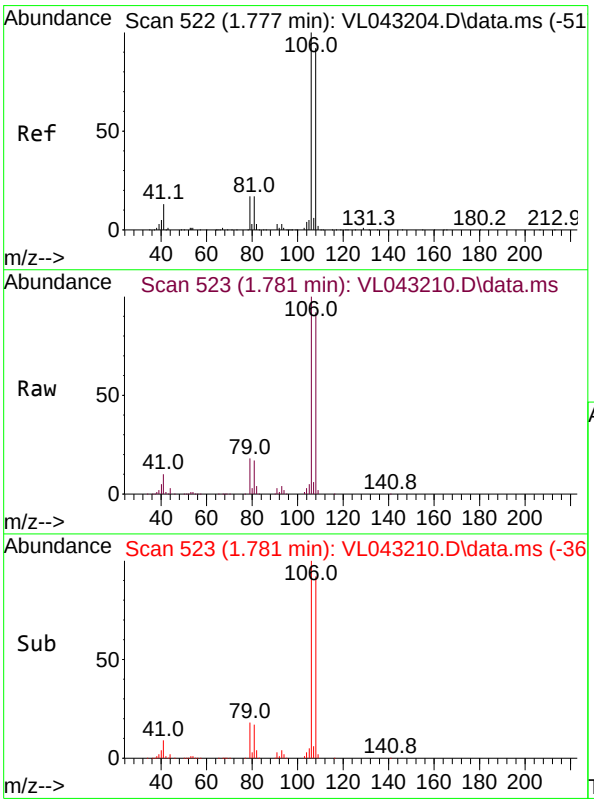
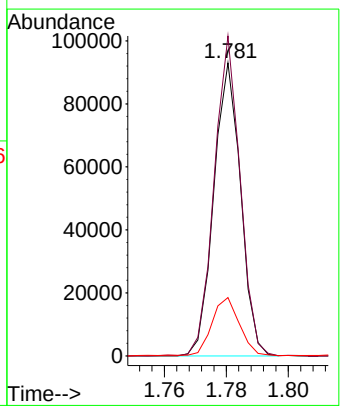
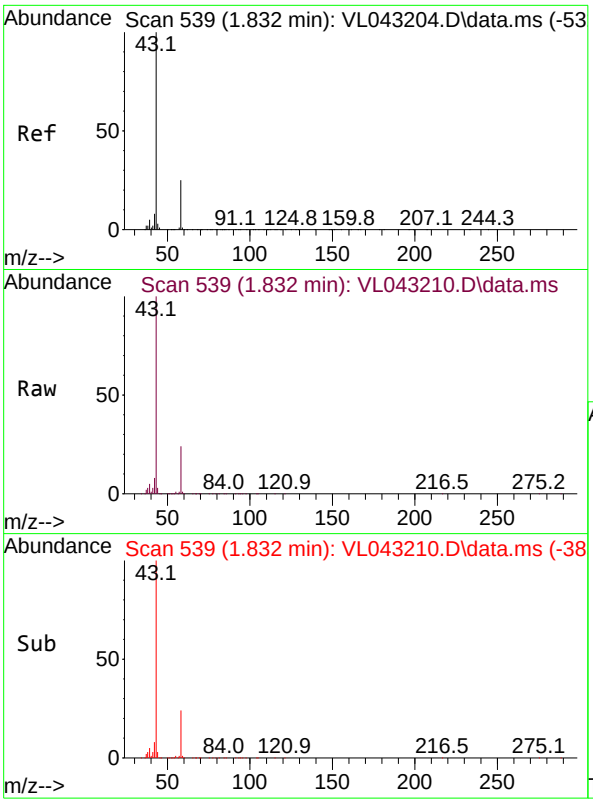


#14
Bromoethene
Concen: 13.789 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:108 Resp: 55813

Ion	Ratio	Lower	Upper
108	100		
106	105.8	88.9	133.3
79	20.6	16.5	24.7

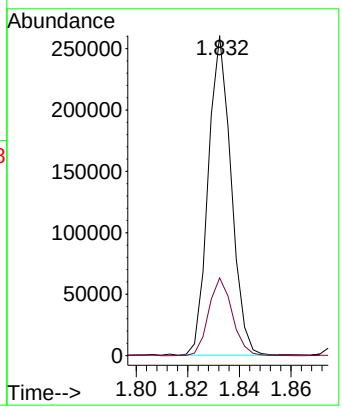




#15
Acetone
Concen: 11.712 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 16103

Ion	Ratio	Lower	Upper
43	100		
58	25.1	20.7	31.1



Instrument :
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ClientSampleId :
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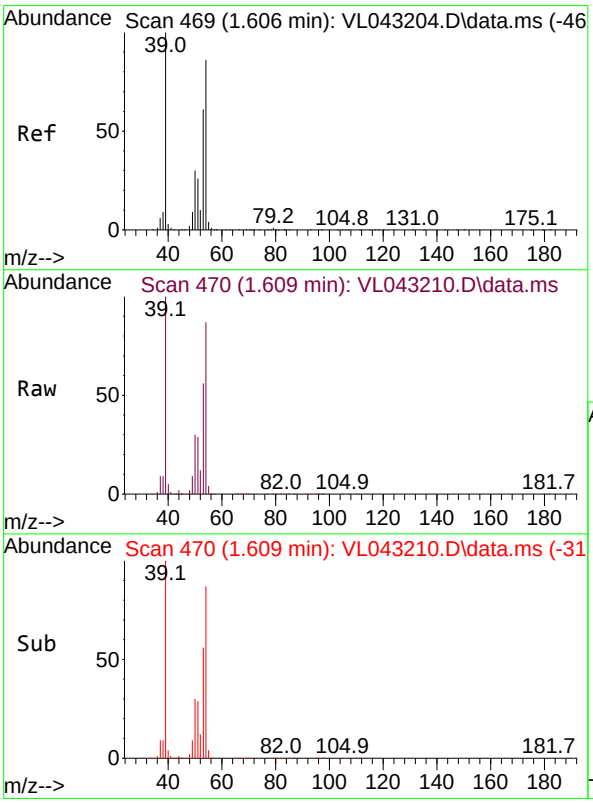
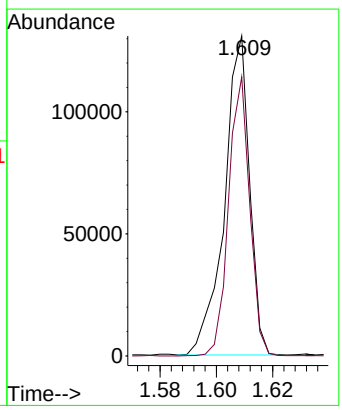
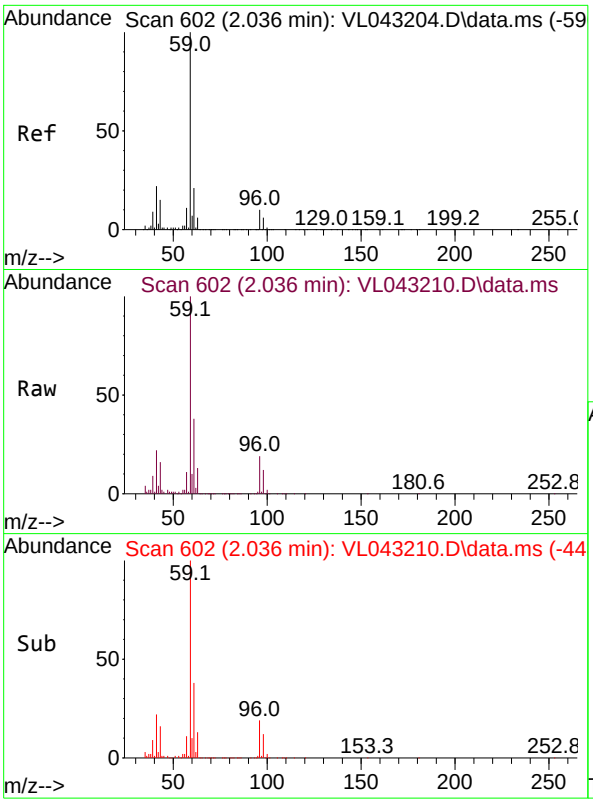


#16
1,3-Butadiene
Concen: 13.226 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 39 Resp: 81077

Ion	Ratio	Lower	Upper
39	100		
54	73.5	59.4	89.2

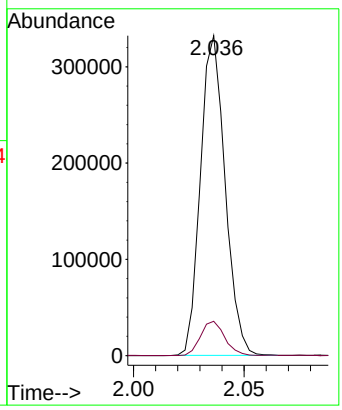




#17
tert-Butyl alcohol
Concen: 14.274 ppbv
RT: 2.036 min Scan# 6(
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 59 Resp: 25761

Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.0	13.4



Instrument :
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ClientSampleId :
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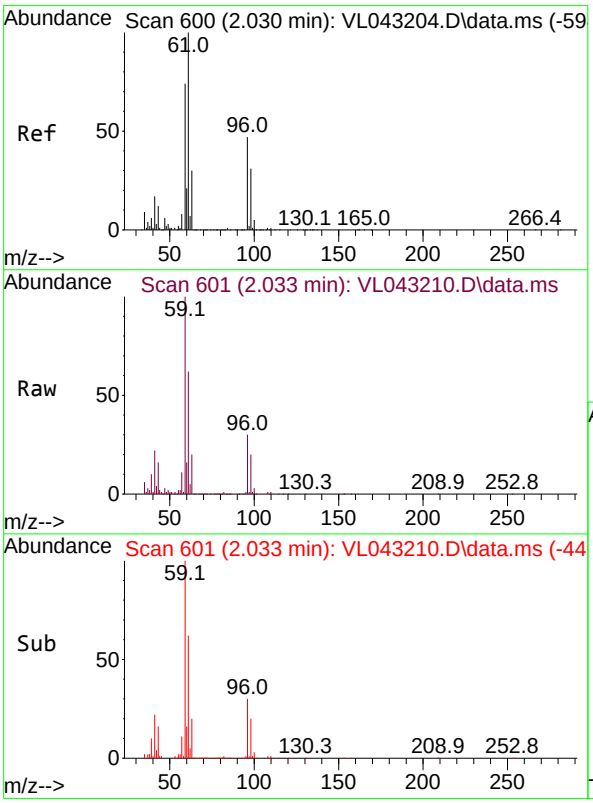
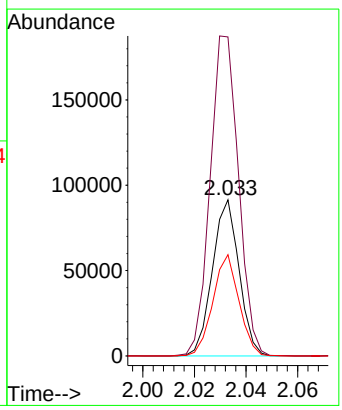
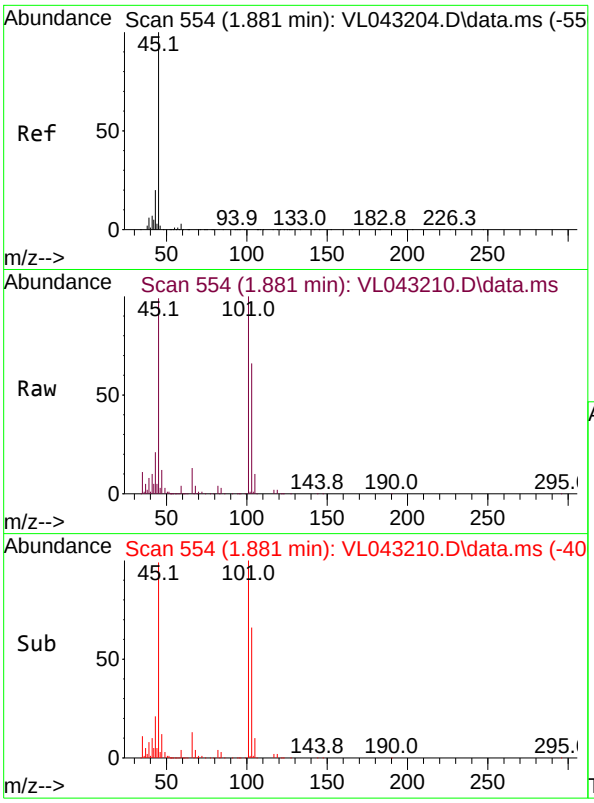


#18
1,1-Dichloroethene
Concen: 13.370 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 96 Resp: 65731

Ion	Ratio	Lower	Upper
96	100		
61	204.3	170.6	255.8
98	64.7	52.2	78.4

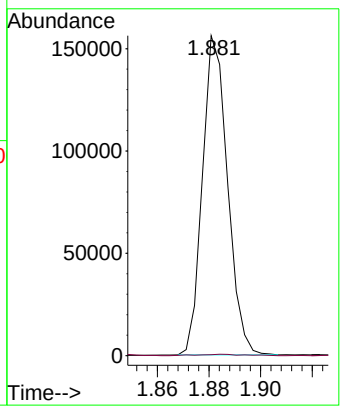




#19
Isopropyl Alcohol
Concen: 13.549 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 45 Resp: 10527

Ion	Ratio	Lower	Upper
45	100		
58	38.5	31.3	46.9



Instrument :
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ClientSampleId :
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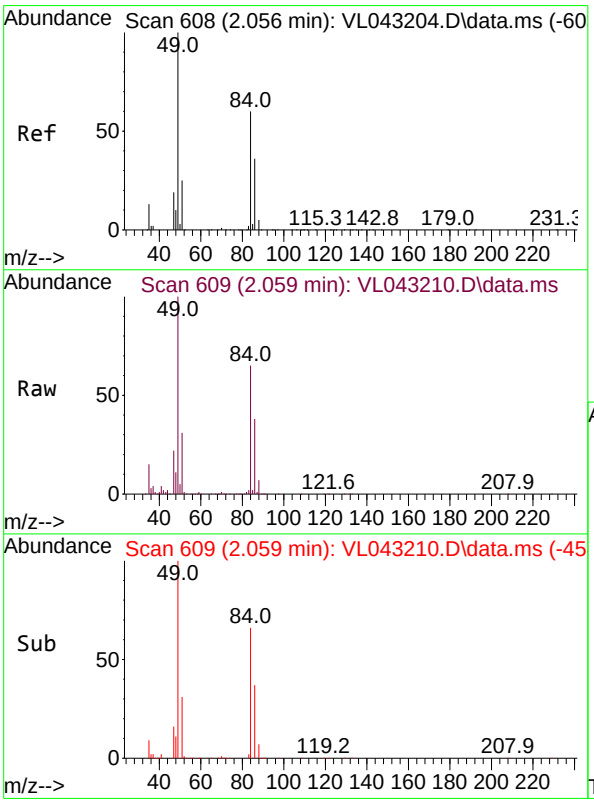
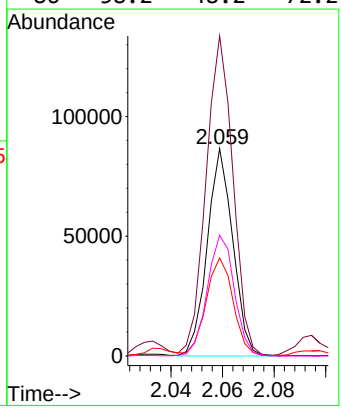
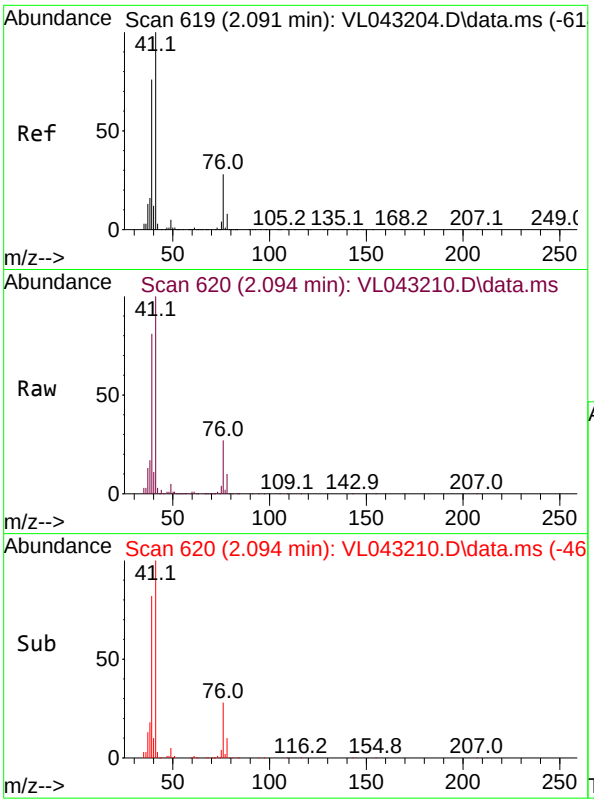


#20
Methylene Chloride
Concen: 15.164 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 84 Resp: 59798

Ion	Ratio	Lower	Upper
84	100		
49	153.8	132.9	199.3
51	47.0	34.8	52.2
86	58.2	48.2	72.2

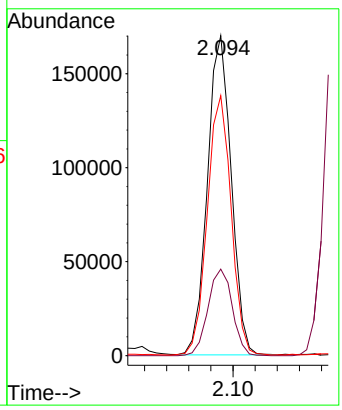




#21
Allyl Chloride
Concen: 13.724 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 41 Resp: 12695

Ion	Ratio	Lower	Upper
41	100		
76	27.5	22.1	33.1
39	81.3	61.0	91.4



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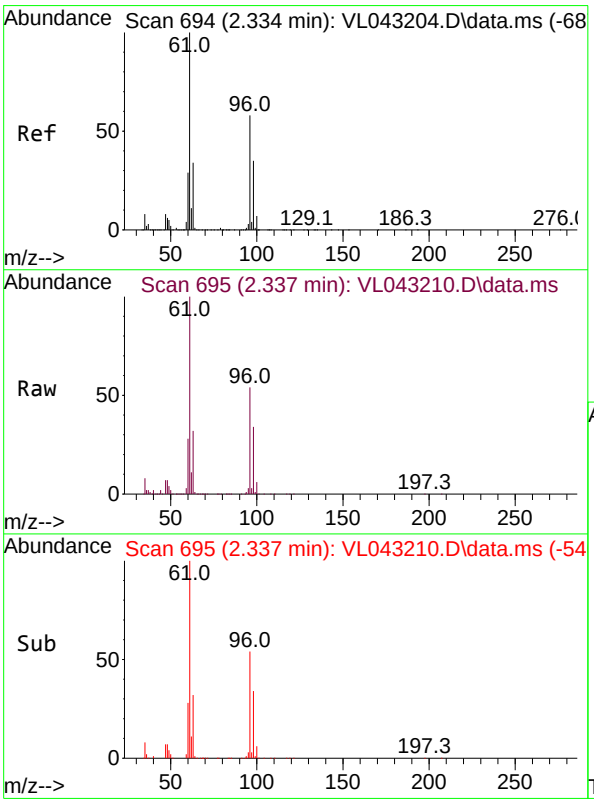
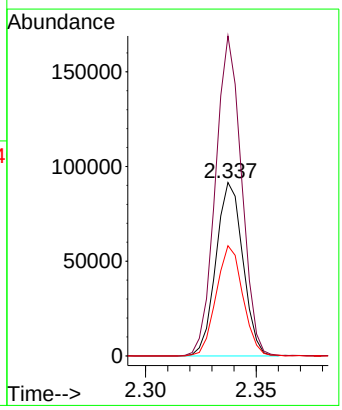
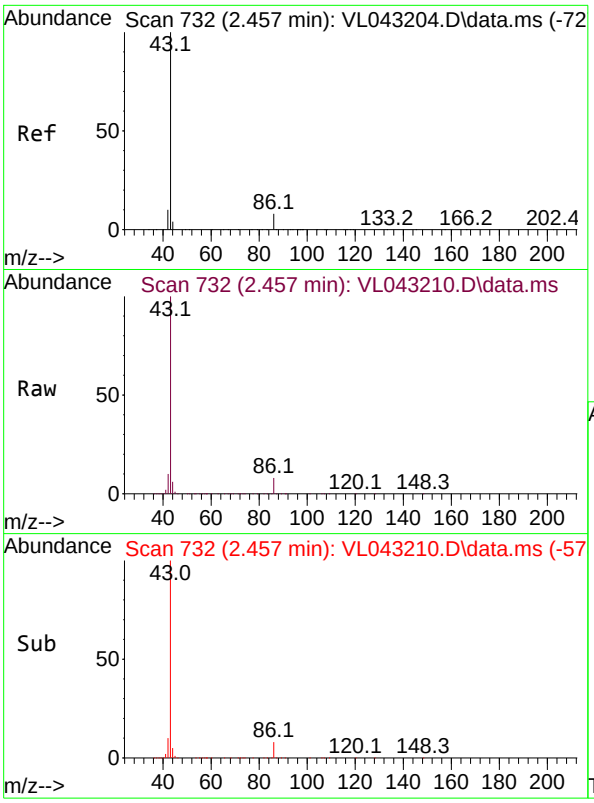


#22
trans-1,2-Dichloroethene
Concen: 13.772 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 96 Resp: 77386

Ion	Ratio	Lower	Upper
96	100		
61	184.6	139.0	208.6
98	63.5	49.4	74.2

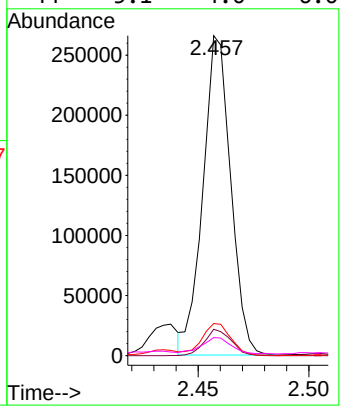




#23
Vinyl Acetate
Concen: 13.995 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 23231

Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.2	9.2
42	10.1	8.0	12.0
44	5.1	4.0	6.0



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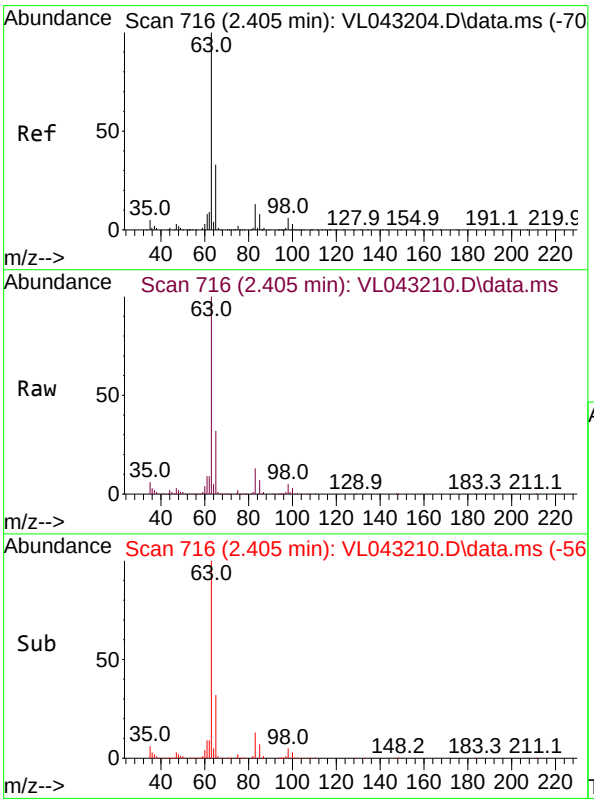
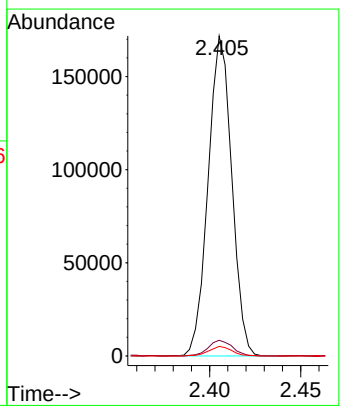
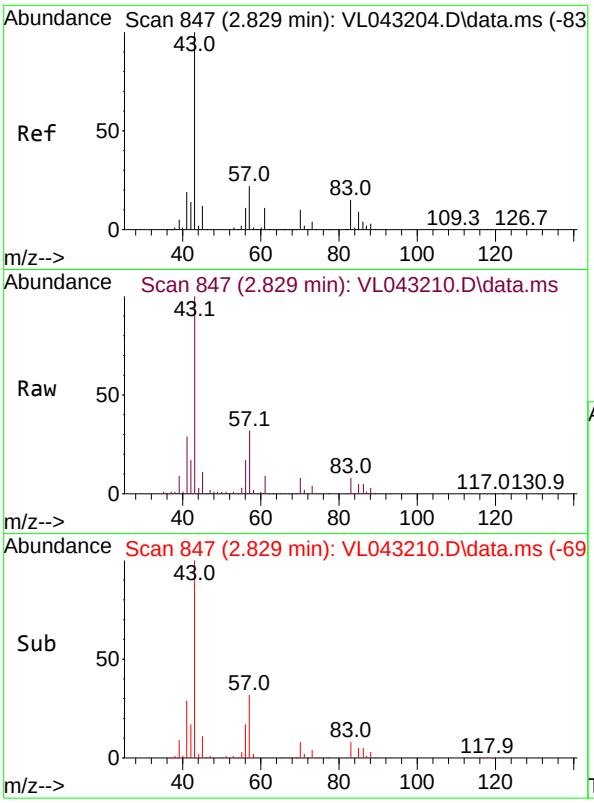


#24
1,1-Dichloroethane
Concen: 14.292 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 63 Resp: 155017

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.8	8.4
100	3.0	1.3	3.9

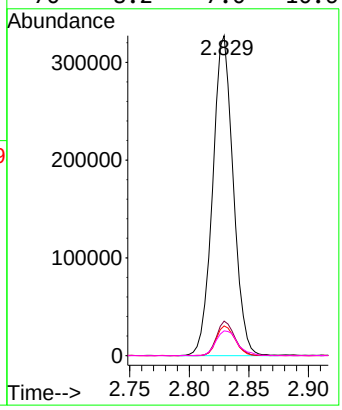




#25
Ethyl Acetate
Concen: 13.265 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 39407

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	8.4	7.0	10.4
70	8.2	7.0	10.6



Instrument :
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ClientSampleId :
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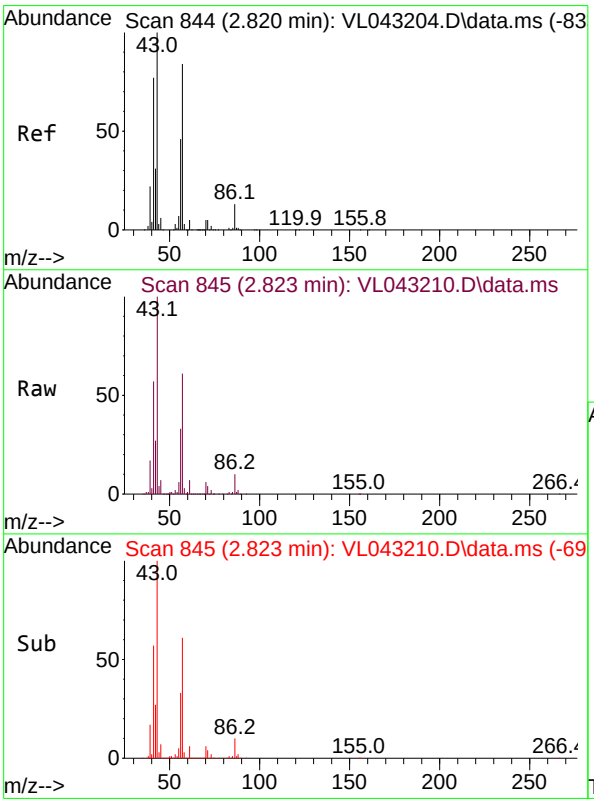
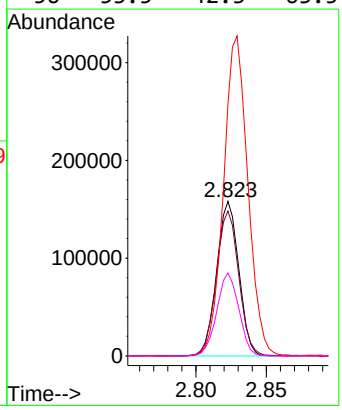
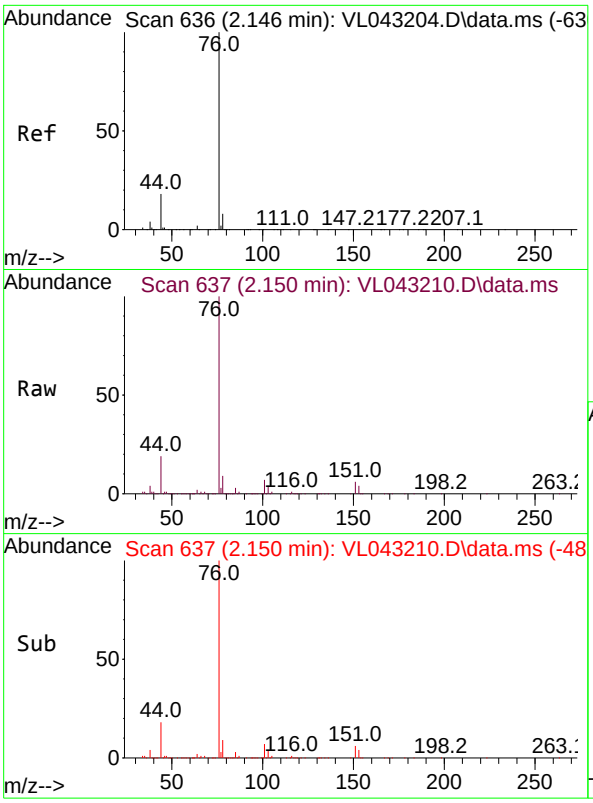


#26
Hexane
Concen: 13.252 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 57 Resp: 172303

Ion	Ratio	Lower	Upper
57	100		
41	95.4	74.6	111.8
43	229.0	179.0	268.4
56	53.5	42.3	63.5

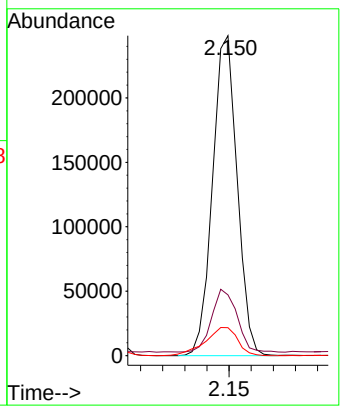




#27
Carbon Disulfide
Concen: 14.435 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 76 Resp: 19161

Ion	Ratio	Lower	Upper
76	100		
44	22.2	16.1	24.1
78	11.5	9.6	14.4



Instrument :
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ClientSampleId :
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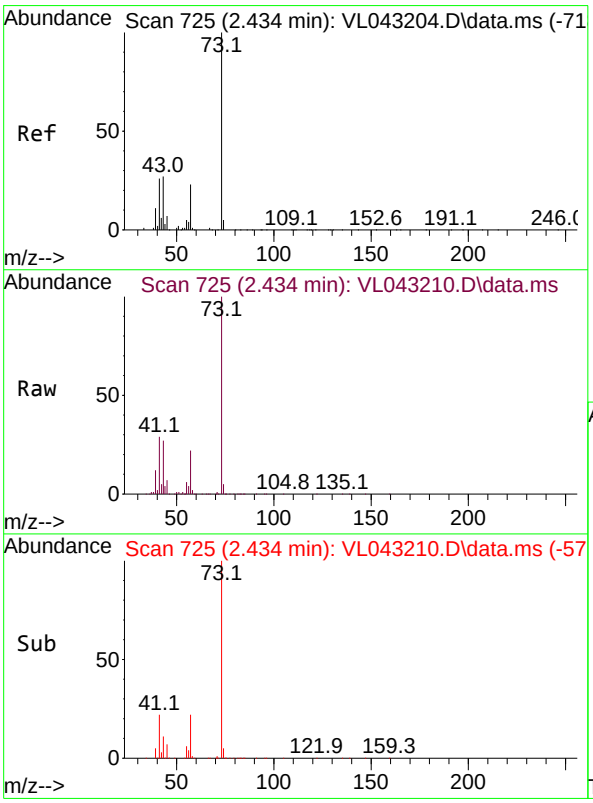
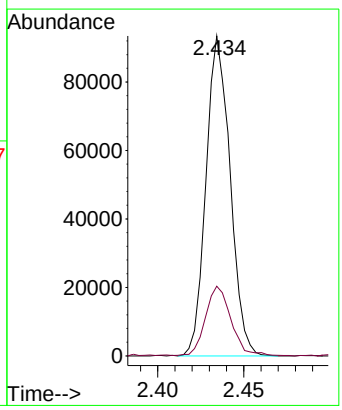
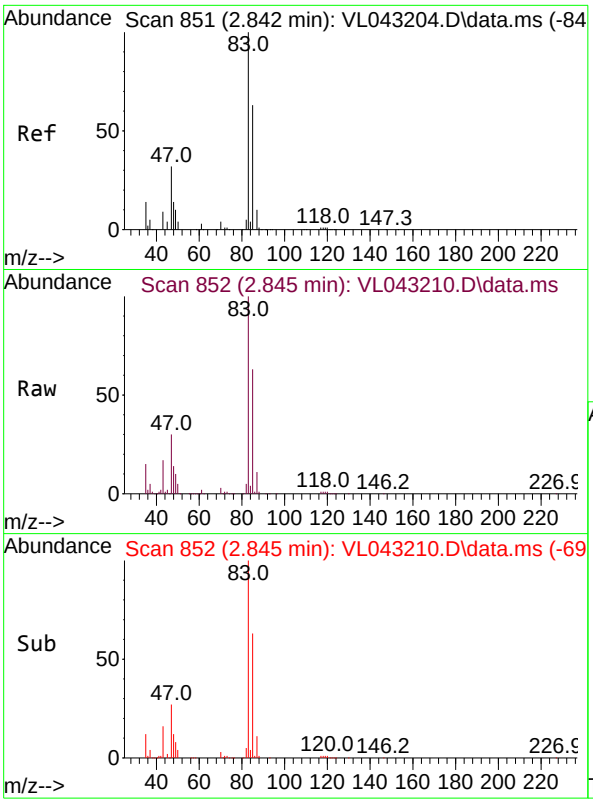


#28
Methyl tert-Butyl Ether
Concen: 14.279 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 73 Resp: 91132

Ion	Ratio	Lower	Upper
73	100		
57	23.5	19.8	29.8

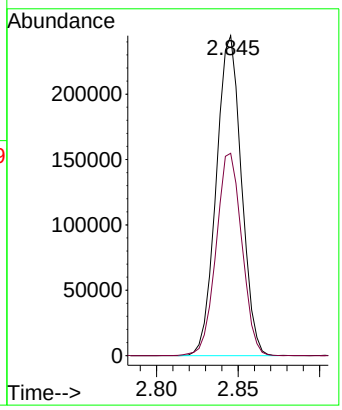




#29
Chloroform
Concen: 14.221 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 83 Resp: 26280

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.5	75.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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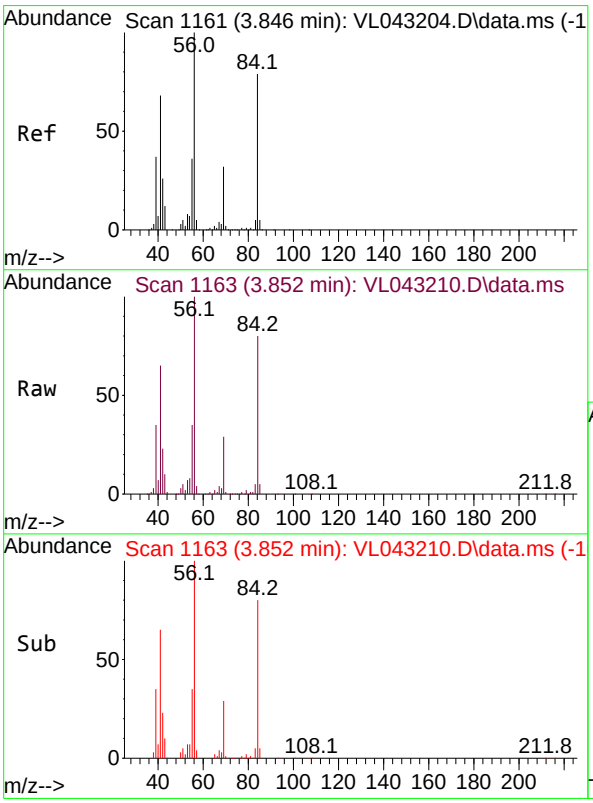
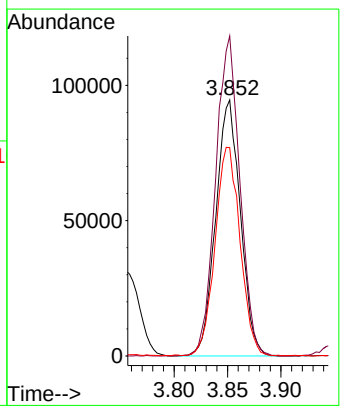
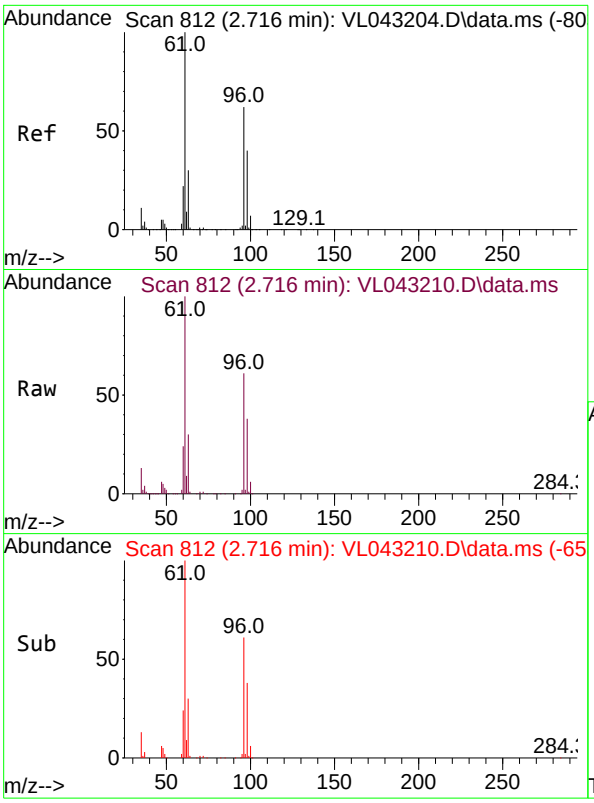


#30
Cyclohexane
Concen: 13.946 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 84 Resp: 152015

Ion	Ratio	Lower	Upper
84	100		
56	123.0	104.7	157.1
41	82.7	69.0	103.6

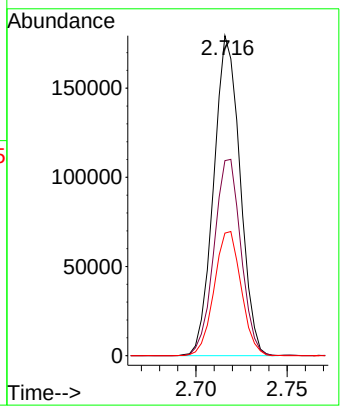




#31
cis-1,2-Dichloroethene
Concen: 13.978 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 61 Resp: 18064

Ion	Ratio	Lower	Upper
61	100		
96	60.9	49.3	73.9
98	38.3	32.1	48.1



Instrument :
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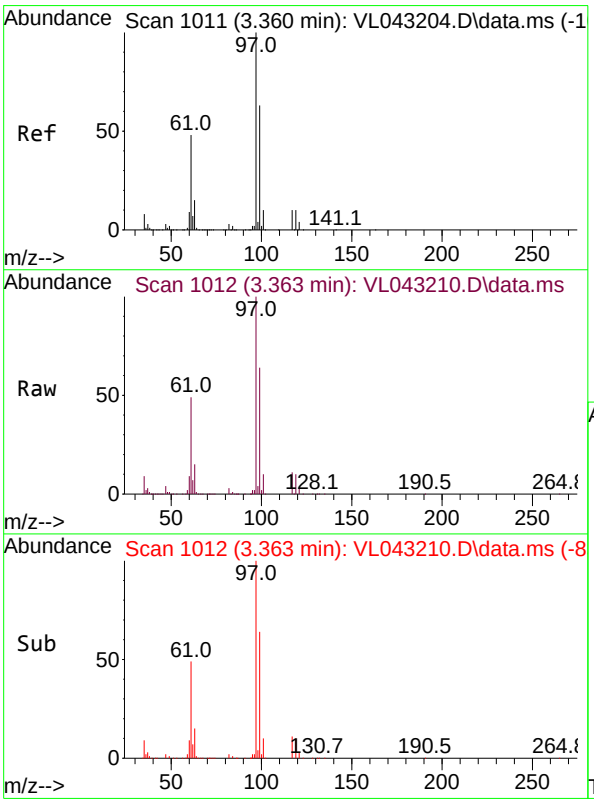
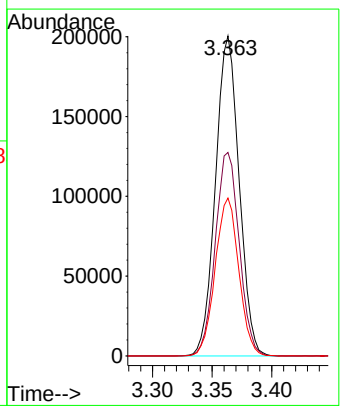
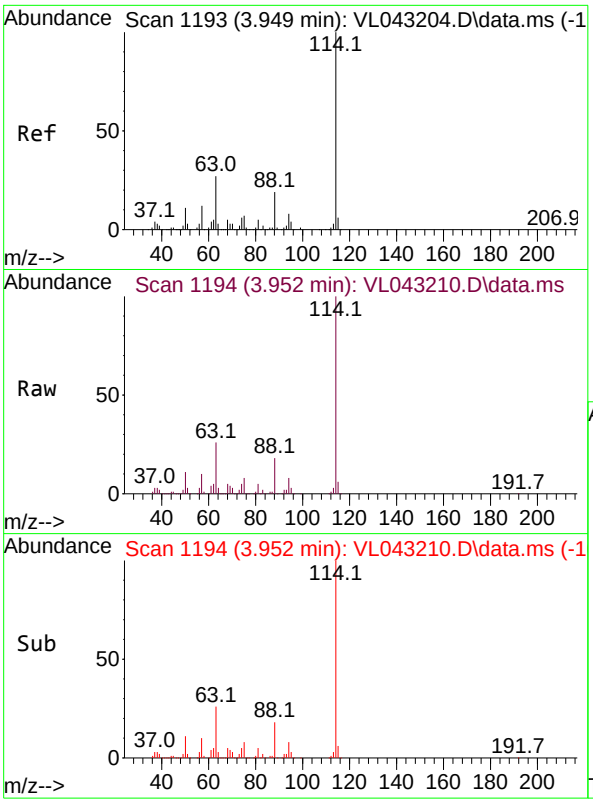


#32
1,1,1-Trichloroethane
Concen: 13.930 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 97 Resp: 276915

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.3	75.5
61	49.3	38.9	58.3

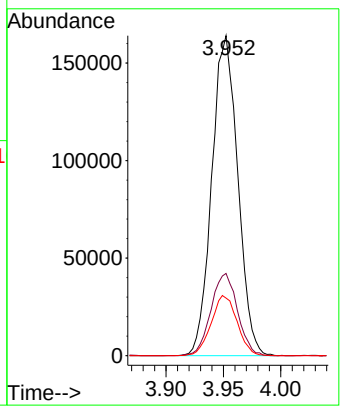




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:114 Resp: 25846

Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.0	31.6
88	18.8	14.9	22.3



Instrument :
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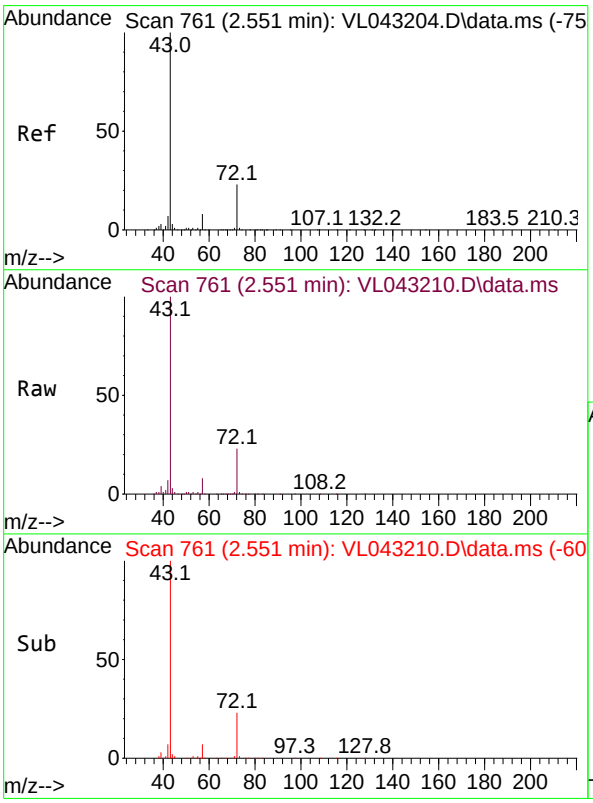
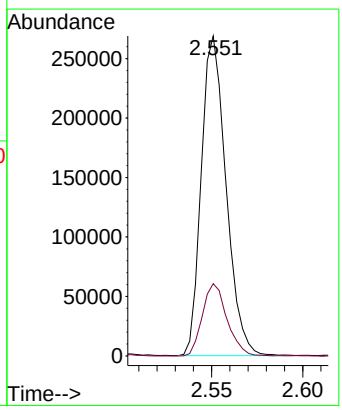
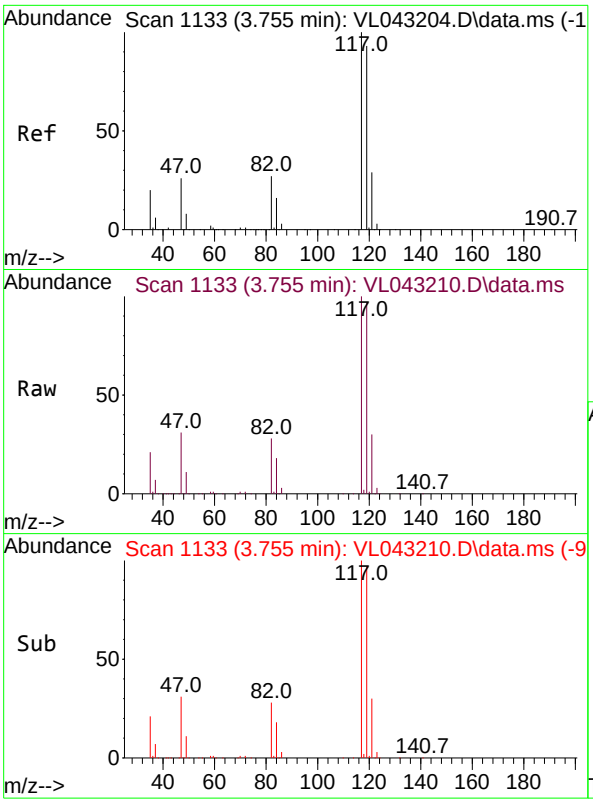


#34
2-Butanone
Concen: 13.914 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 253855

Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.1	27.1

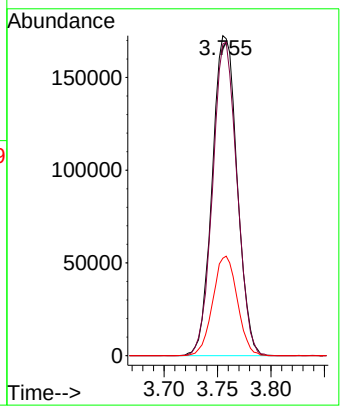




#35
Carbon Tetrachloride
Concen: 14.250 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:117 Resp: 27956

Ion	Ratio	Lower	Upper
117	100		
119	97.4	74.6	112.0
121	30.4	23.2	34.8



Instrument :
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ClientSampleId :
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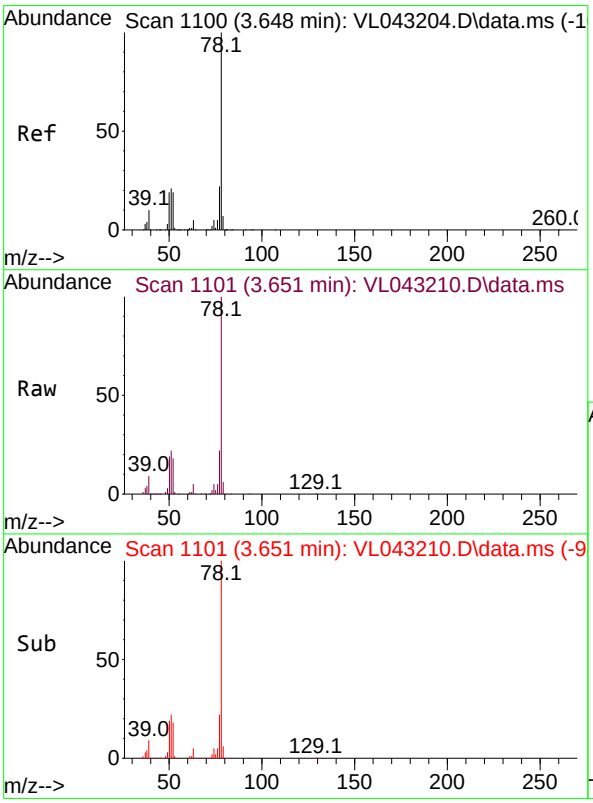
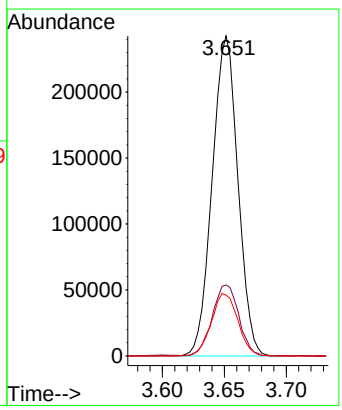
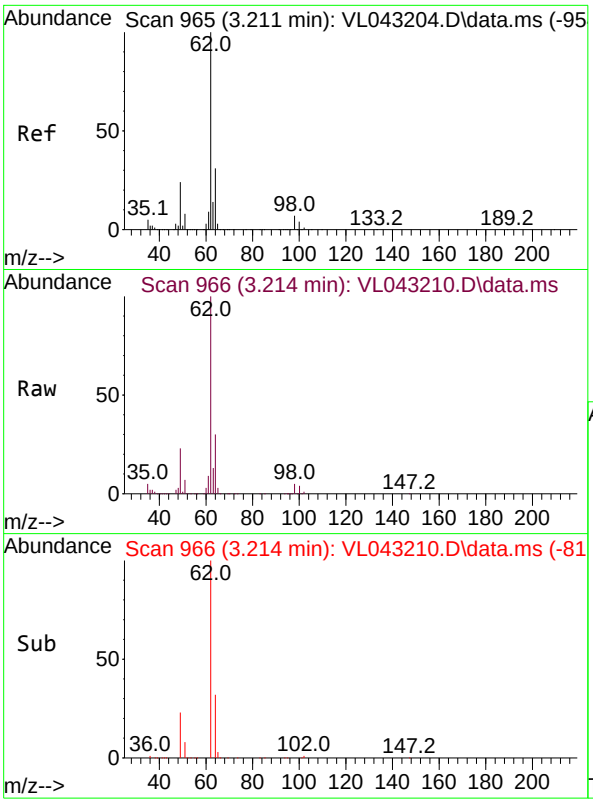


#36
Benzene
Concen: 14.096 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 78 Resp: 348892

Ion	Ratio	Lower	Upper
78	100		
77	22.1	17.5	26.3
50	19.0	15.5	23.3

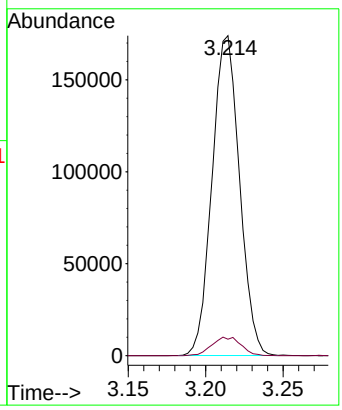




#37
1,2-Dichloroethane
Concen: 14.798 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 62 Resp: 21424

Ion	Ratio	Lower	Upper
62	100		
98	6.1	5.5	8.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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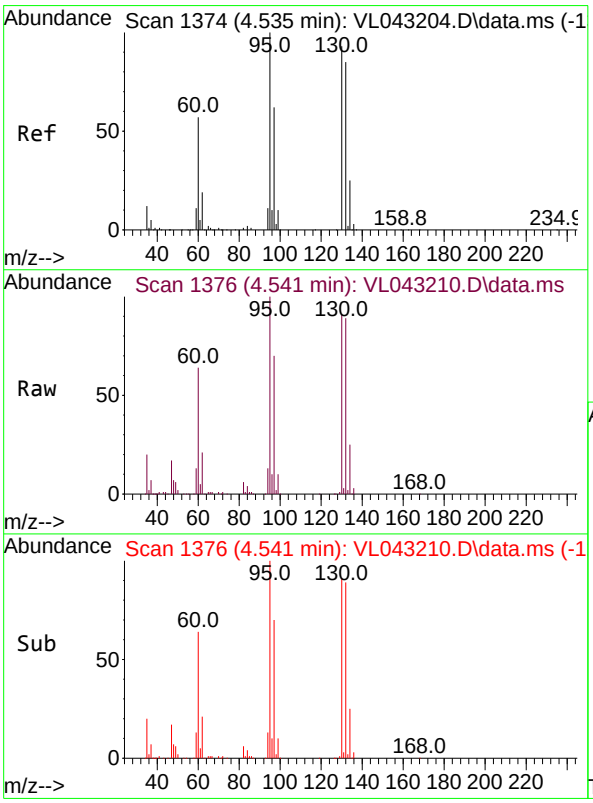
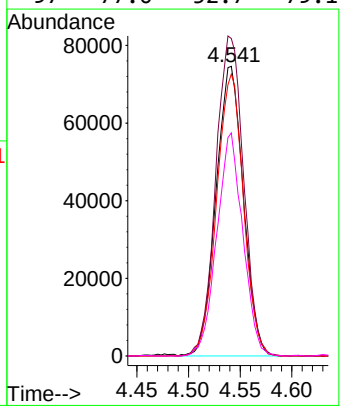
Supervised By :Mahesh Dadoda 11/19/2025

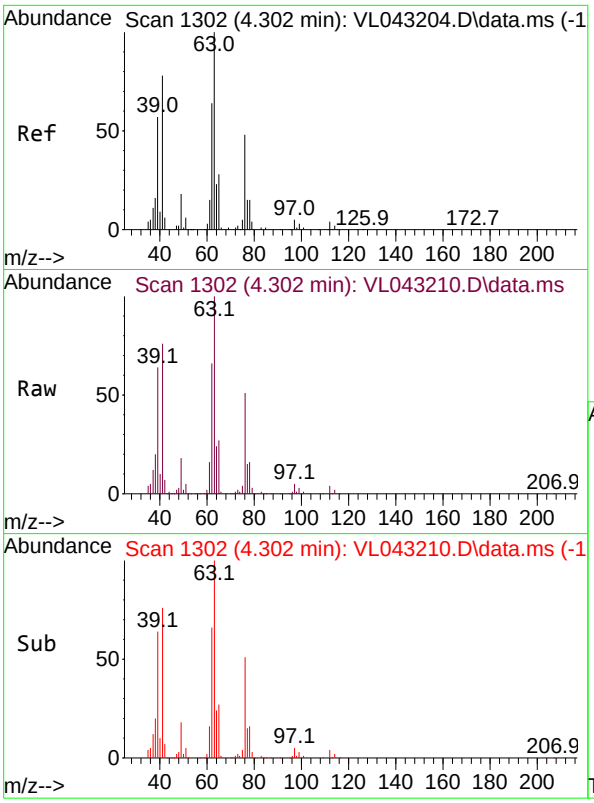


#38
Trichloroethene
Concen: 14.123 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:130 Resp: 137027

Ion	Ratio	Lower	Upper
130	100		
95	109.6	85.7	128.5
132	97.4	73.4	110.0
97	77.0	52.7	79.1

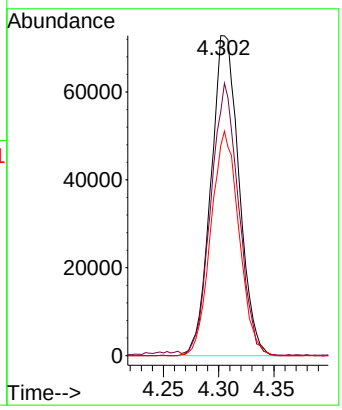




#39
1,2-Dichloropropane
Concen: 14.206 ppbv
RT: 4.302 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 63 Resp: 12870

Ion	Ratio	Lower	Upper
63	100		
41	75.9	62.6	93.8
62	65.6	51.0	76.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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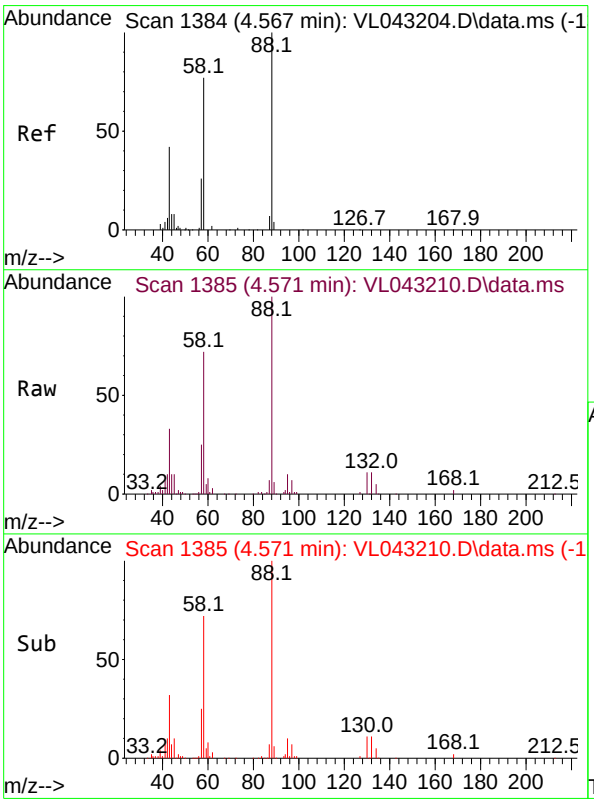
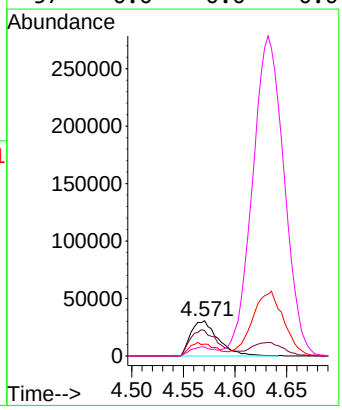
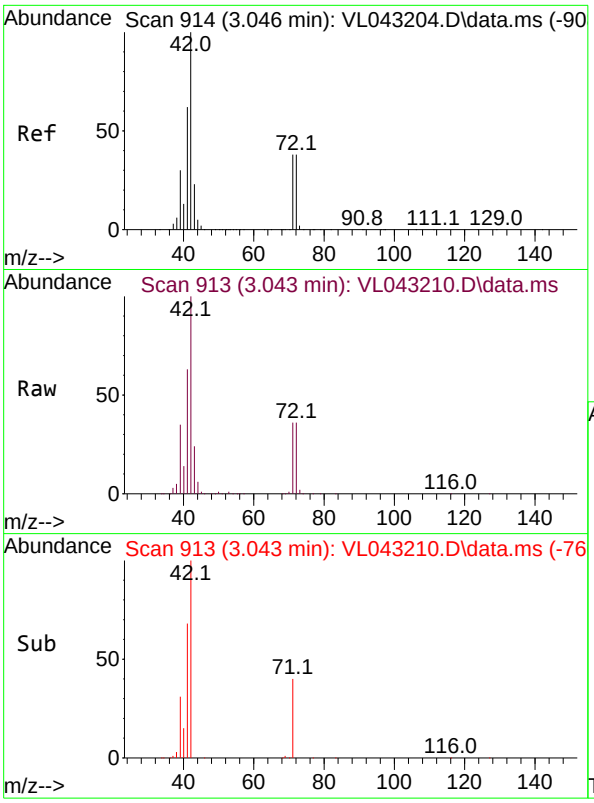


#40
1,4-Dioxane
Concen: 13.728 ppbv
RT: 4.571 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 88 Resp: 55905

Ion	Ratio	Lower	Upper
88	100		
58	76.7	63.0	94.6
43	34.0	32.5	48.7
57	0.0	0.0	0.0

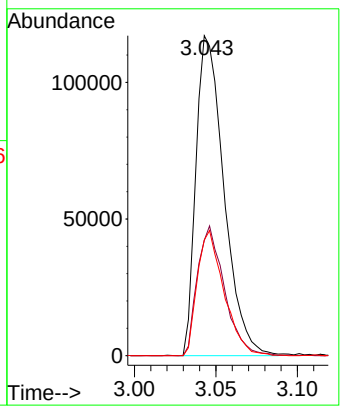




#41
Tetrahydrofuran
Concen: 13.868 ppbv
RT: 3.043 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 42 Resp: 13972

Ion	Ratio	Lower	Upper
42	100		
72	39.1	30.6	46.0
71	37.3	30.5	45.7



Instrument :
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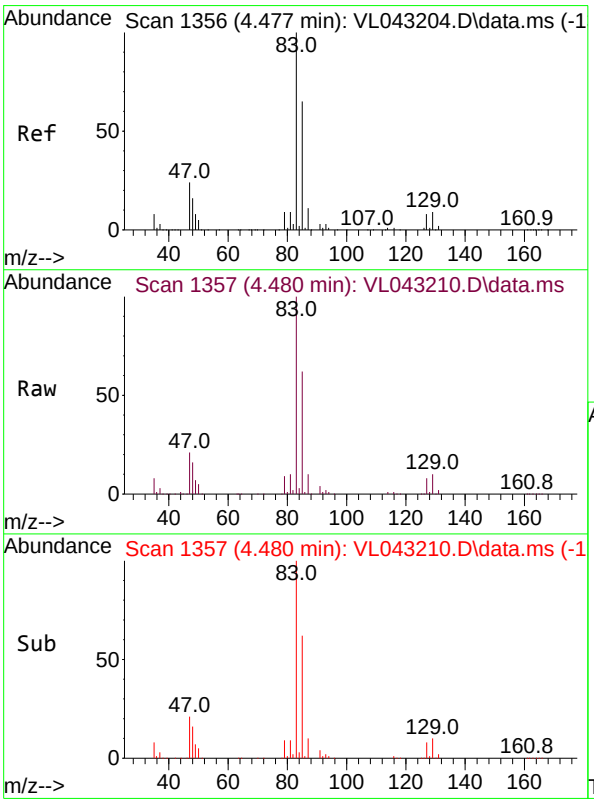
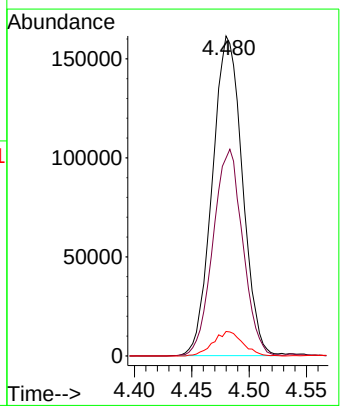
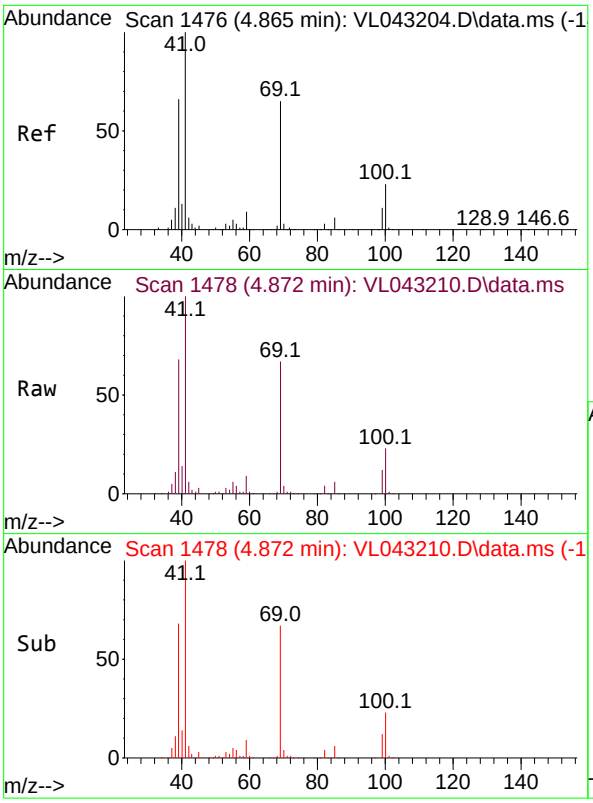


#42
Bromodichloromethane
Concen: 14.721 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 83 Resp: 294008

Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.7	77.5
127	7.6	6.3	9.5

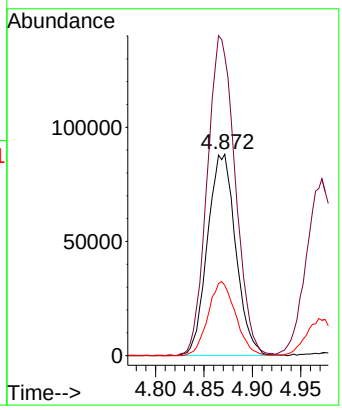




#43
Methyl Methacrylate
Concen: 13.633 ppbv
RT: 4.872 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 69 Resp: 17911

Ion	Ratio	Lower	Upper
69	100		
41	157.9	126.7	190.1
100	35.7	28.6	43.0



Instrument :
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ClientSampleId :
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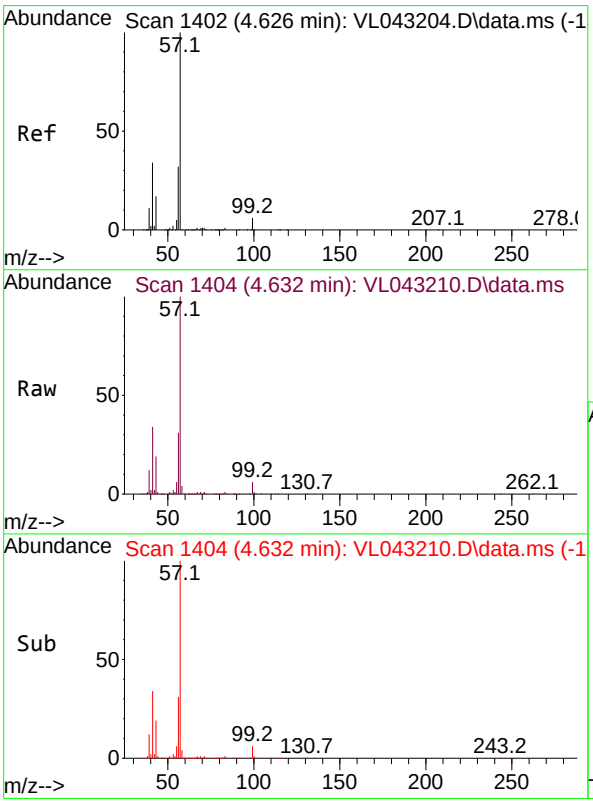
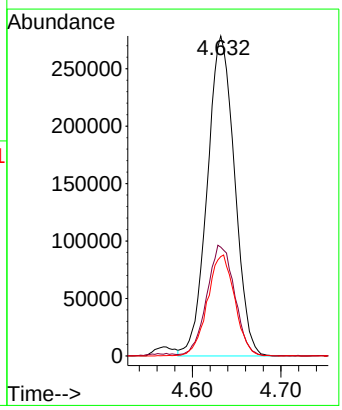
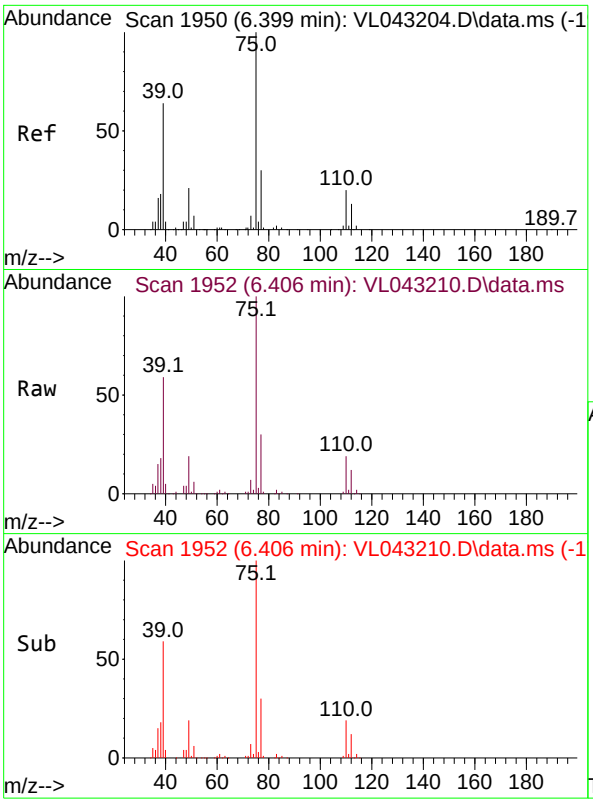


#44
2,2,4-Trimethylpentane
Concen: 14.014 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 57 Resp: 595778

Ion	Ratio	Lower	Upper
57	100		
41	35.9	28.0	42.0
56	31.6	25.6	38.4

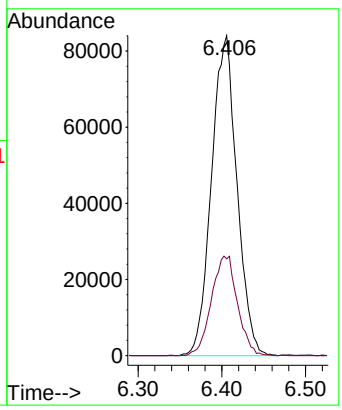




#45
t-1,3-Dichloropropene
Concen: 14.508 ppbv
RT: 6.406 min Scan# 19
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 75 Resp: 17767

Ion	Ratio	Lower	Upper
75	100		
77	30.2	24.3	36.5



Instrument :
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ClientSampleId :
VSTDICC015

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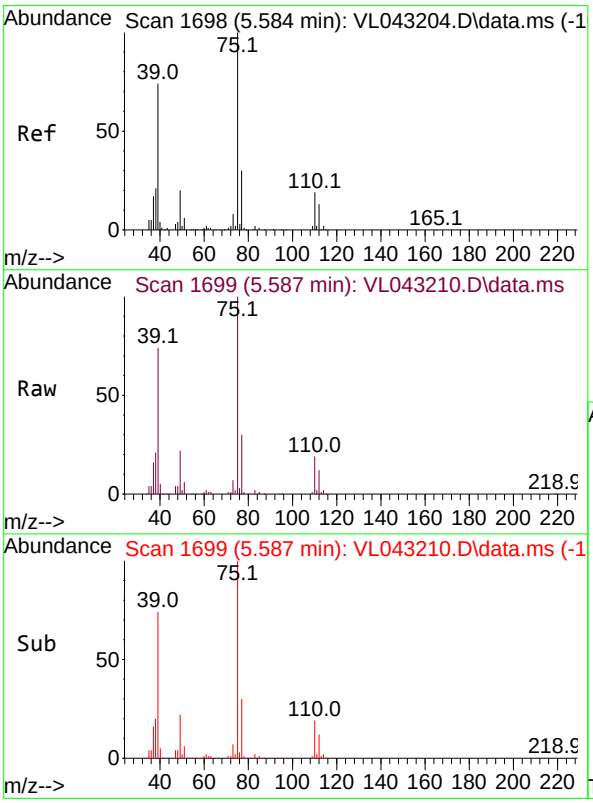
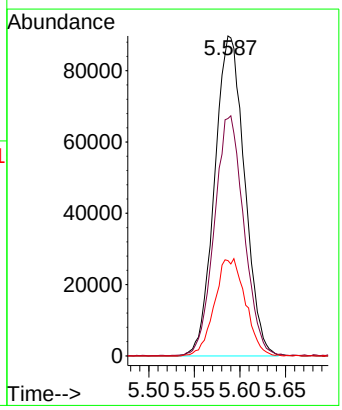
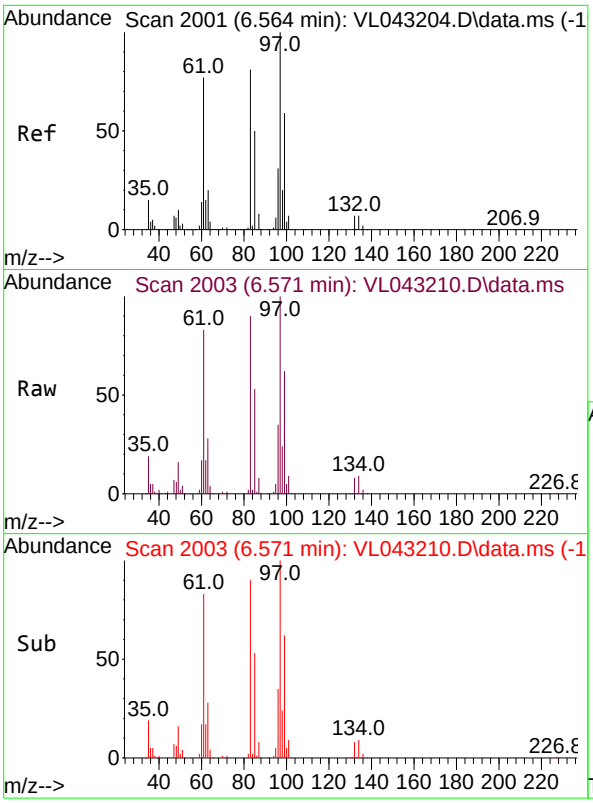


#46
cis-1,3-Dichloropropene
Concen: 14.270 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 75 Resp: 205226

Ion	Ratio	Lower	Upper
75	100		
39	73.9	59.1	88.7
77	29.8	24.2	36.2

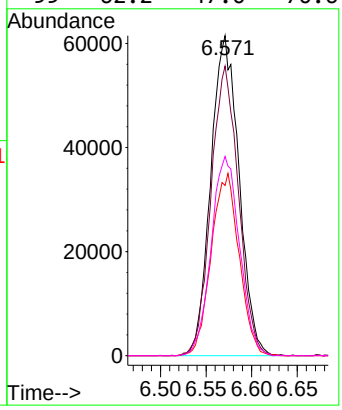




#47
1,1,2-Trichloroethane
Concen: 13.738 ppbv
RT: 6.571 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 97 Resp: 13270

Ion	Ratio	Lower	Upper
97	100		
83	90.4	64.6	97.0
85	53.2	39.4	59.2
99	62.2	47.0	70.6



Instrument :
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ClientSampleId :
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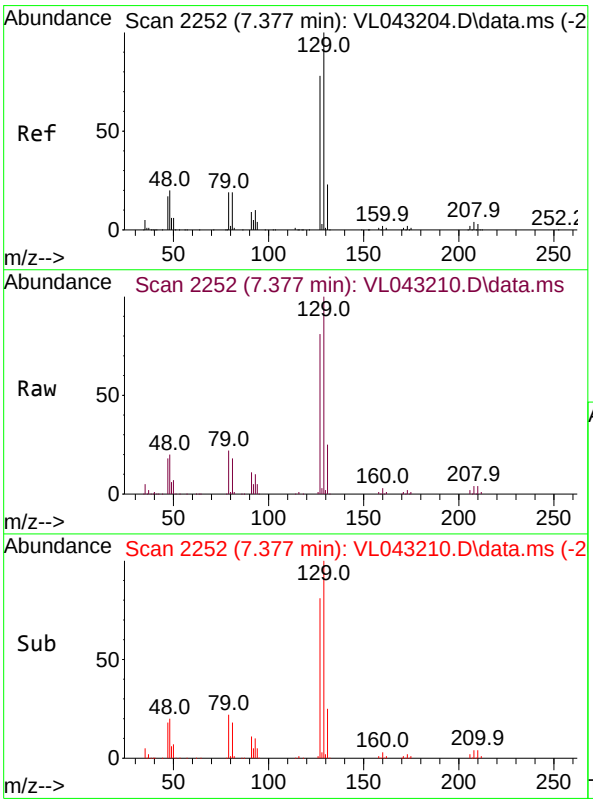
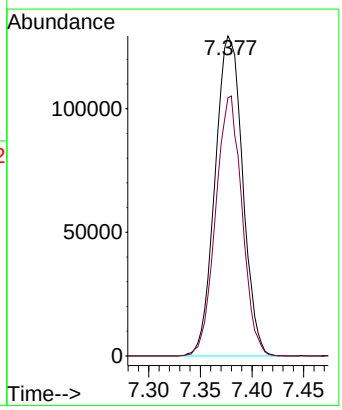
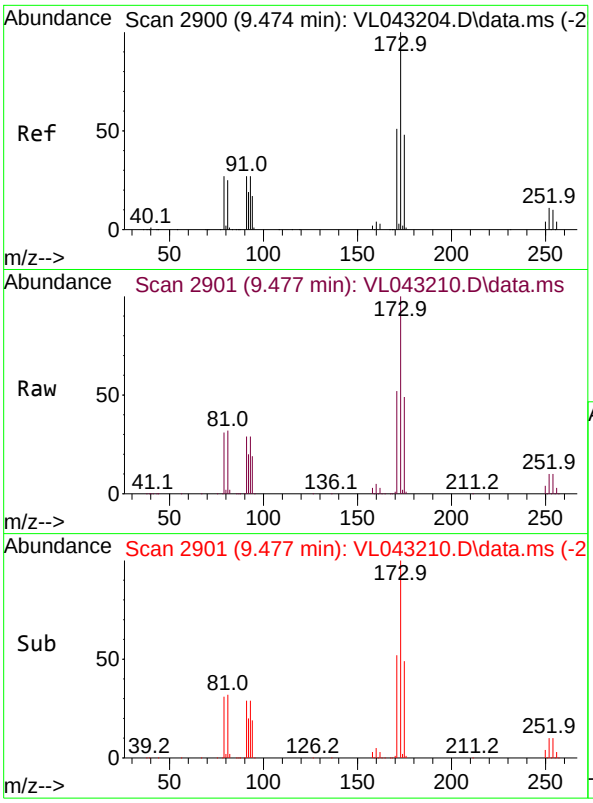


#48
Dibromochloromethane
Concen: 14.564 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:129 Resp: 240736

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.3	117.9

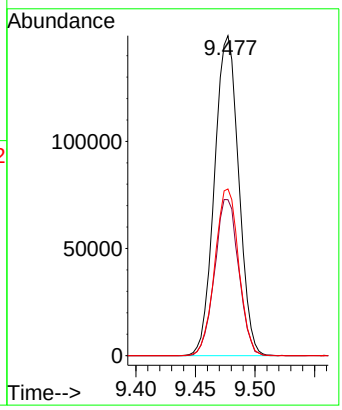




#49
Bromoform
Concen: 14.434 ppbv
RT: 9.477 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:173 Resp: 211325

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.6	58.0
171	51.5	40.6	61.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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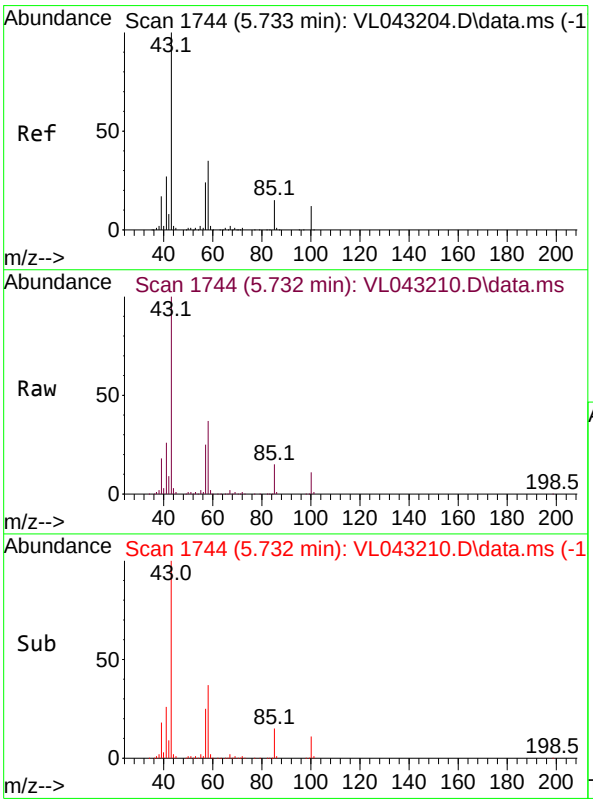
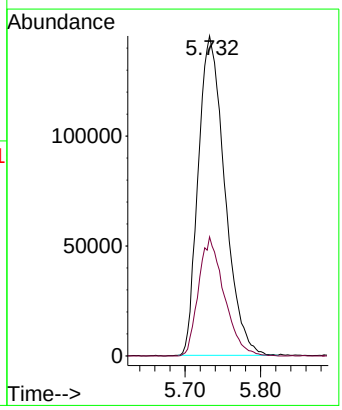
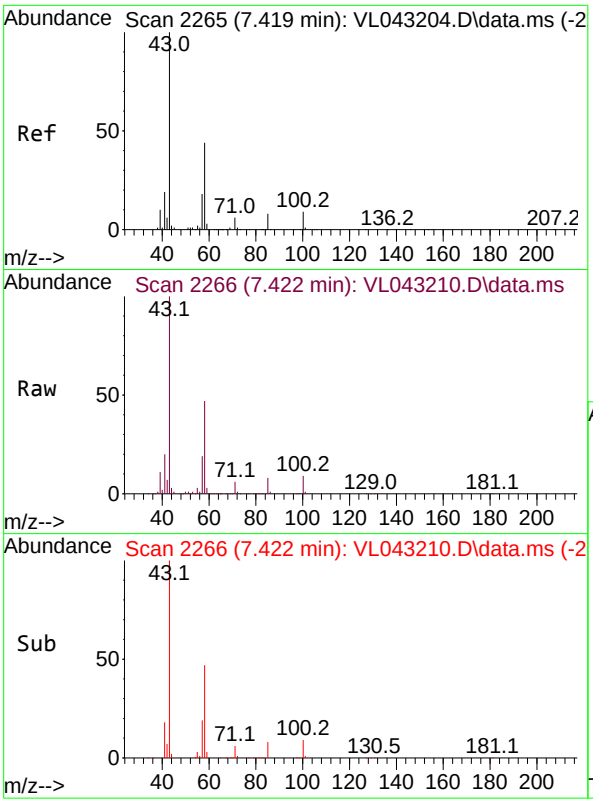


#50
4-Methyl-2-Pentanone
Concen: 13.790 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 354421

Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.4	42.6

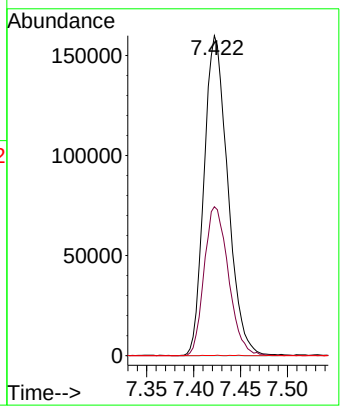




#51
2-Hexanone
Concen: 14.067 ppbv
RT: 7.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 28074

Ion	Ratio	Lower	Upper
43	100		
58	47.7	38.4	57.6
98	0.1	0.0	0.0#



Instrument :
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ClientSampleId :
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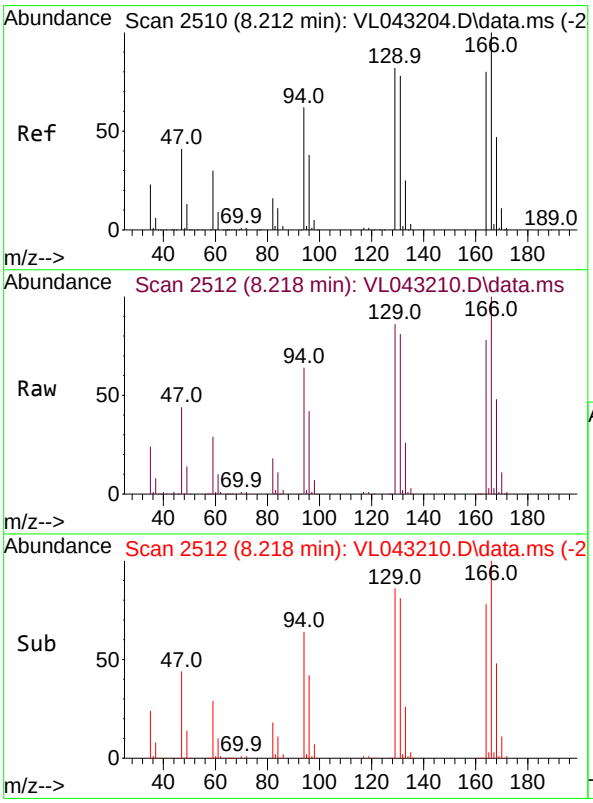
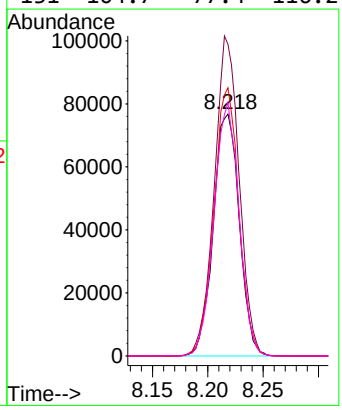
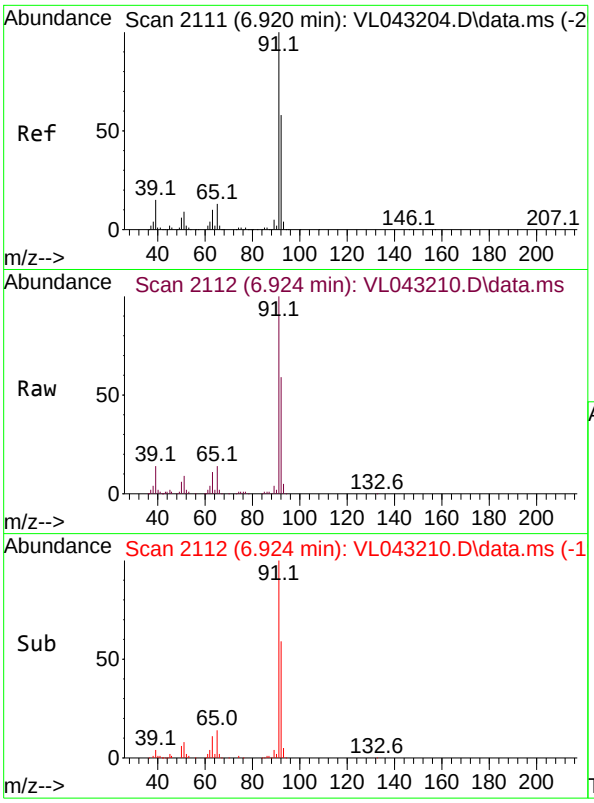


#52
Tetrachloroethene
Concen: 13.591 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:164 Resp: 125132

Ion	Ratio	Lower	Upper
164	100		
166	128.8	99.4	149.2
129	110.8	81.8	122.8
131	104.7	77.4	116.2

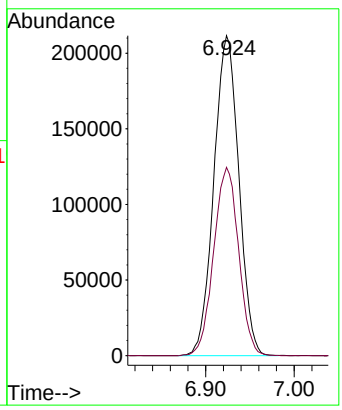




#53
Toluene
Concen: 14.050 ppbv
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 414411

Ion	Ratio	Lower	Upper
91	100		
92	58.8	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
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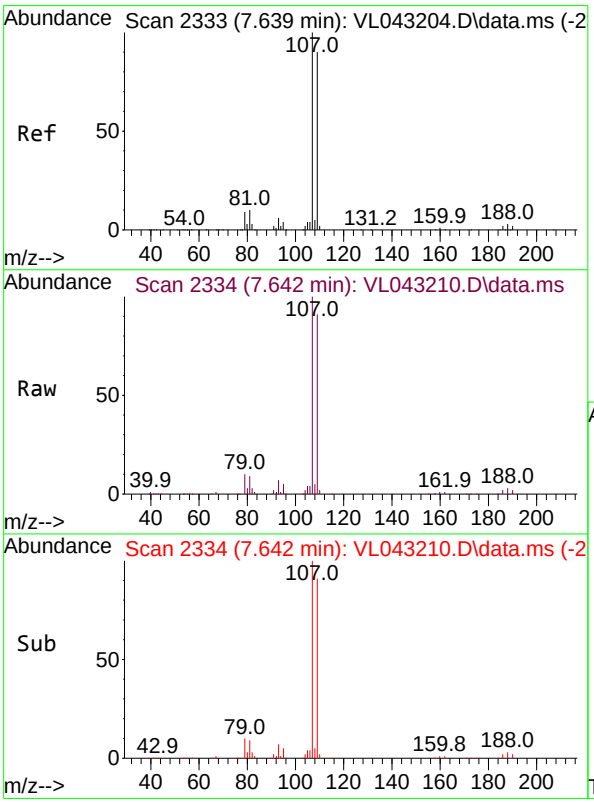
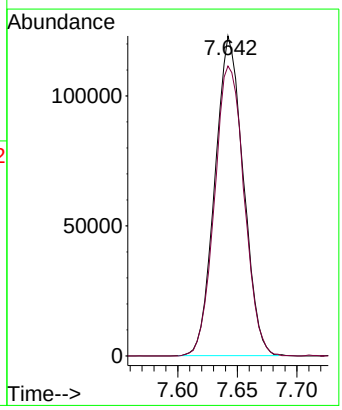
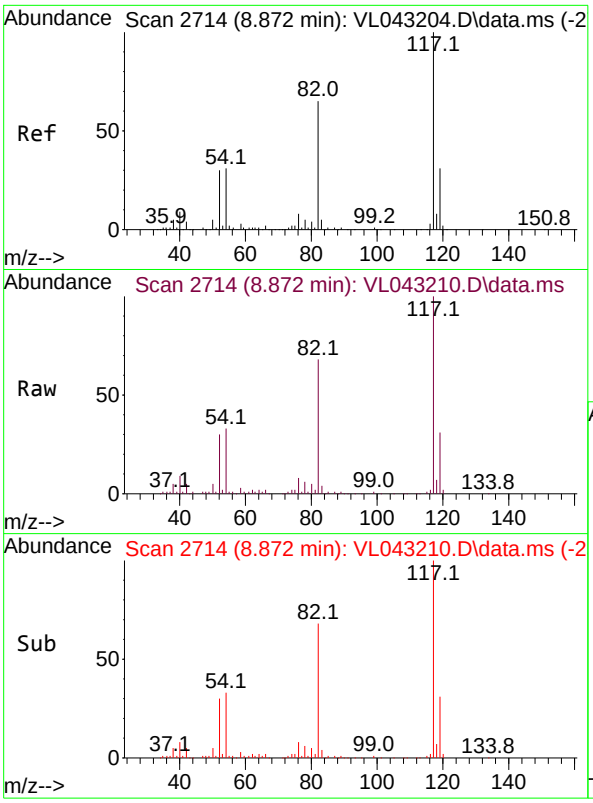


#54
1,2-Dibromoethane
Concen: 14.413 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:107 Resp: 203913

Ion	Ratio	Lower	Upper
107	100		
109	90.6	72.1	108.1

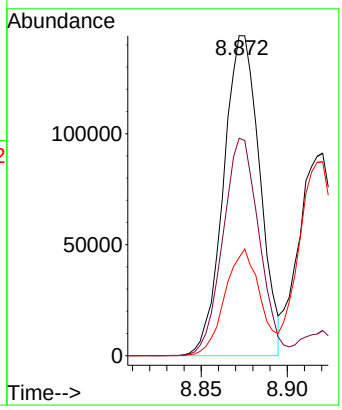




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:117 Resp: 21124

Ion	Ratio	Lower	Upper
117	100		
82	68.4	56.1	84.1
119	32.6	25.0	37.6



Instrument :
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ClientSampleId :
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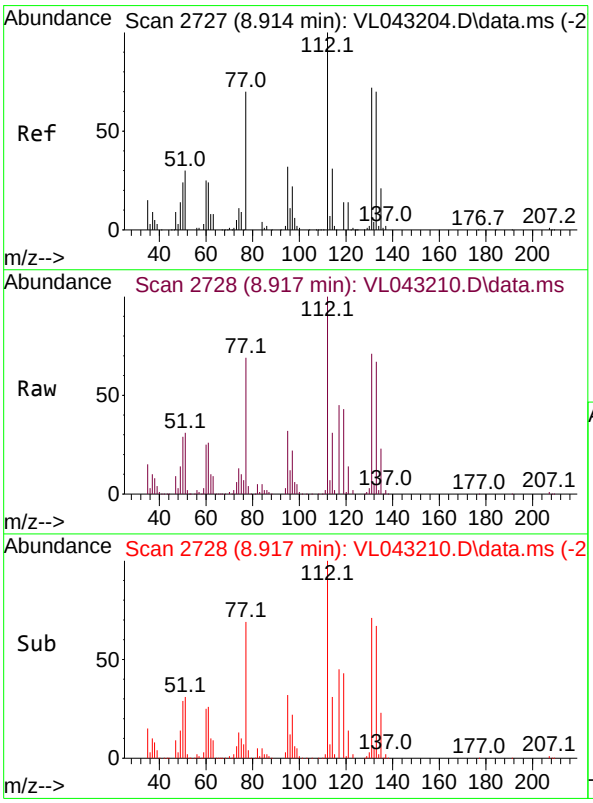
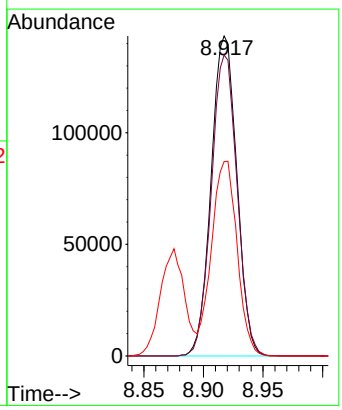
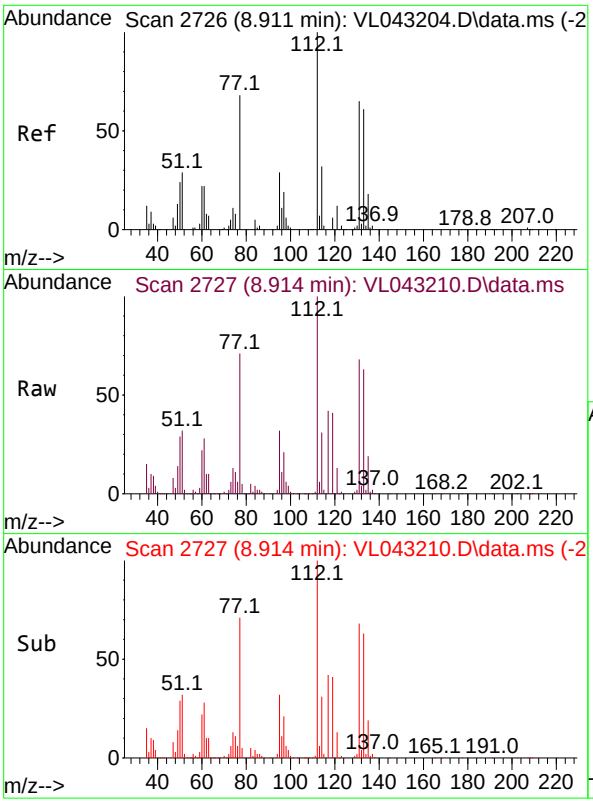


#56
1,1,1,2-Tetrachloroethane
Concen: 13.827 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:131 Resp: 214673

Ion	Ratio	Lower	Upper
131	100		
133	94.9	77.4	116.2
119	61.5	49.1	73.7

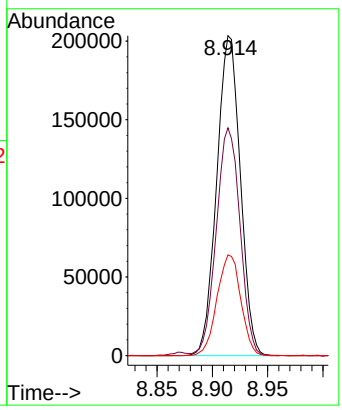




#57
Chlorobenzene
Concen: 13.923 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:112 Resp: 30198

Ion	Ratio	Lower	Upper
112	100		
77	71.1	55.5	83.3
114	31.5	29.1	35.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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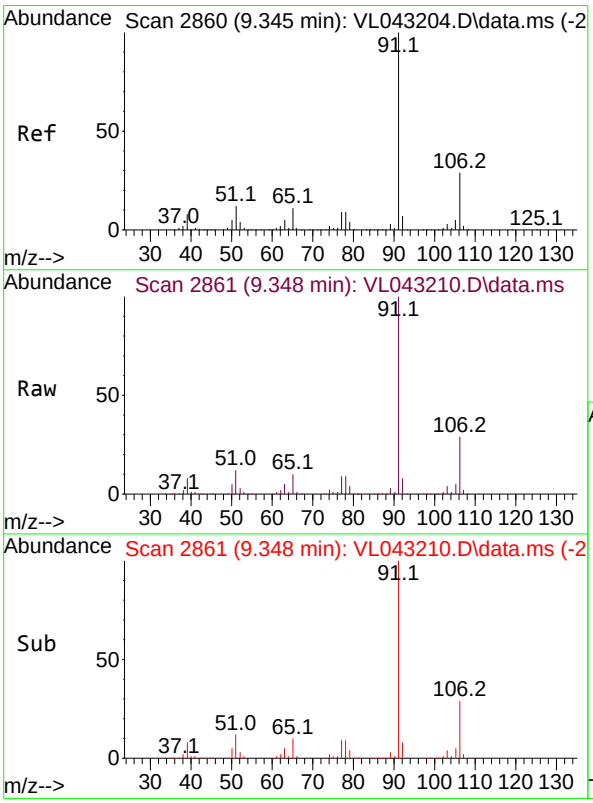
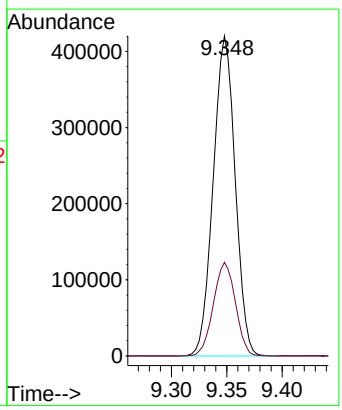
Supervised By :Mahesh Dadoda 11/19/2025

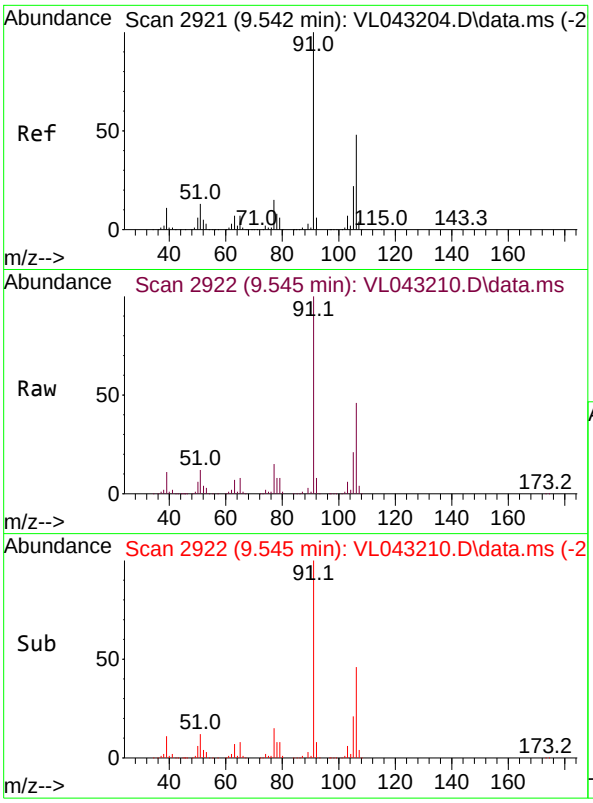


#58
Ethyl Benzene
Concen: 14.262 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 579890

Ion	Ratio	Lower	Upper
91	100		
106	29.2	22.8	34.2





#59
m/p-Xylene
Concen: 28.000 ppbv m
RT: 9.545 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 91611

Ion	Ratio	Lower	Upper
91	100		
106	45.1	36.1	54.1

Instrument :
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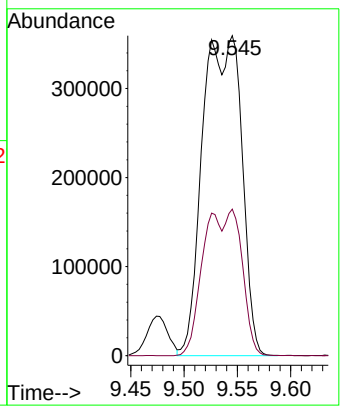
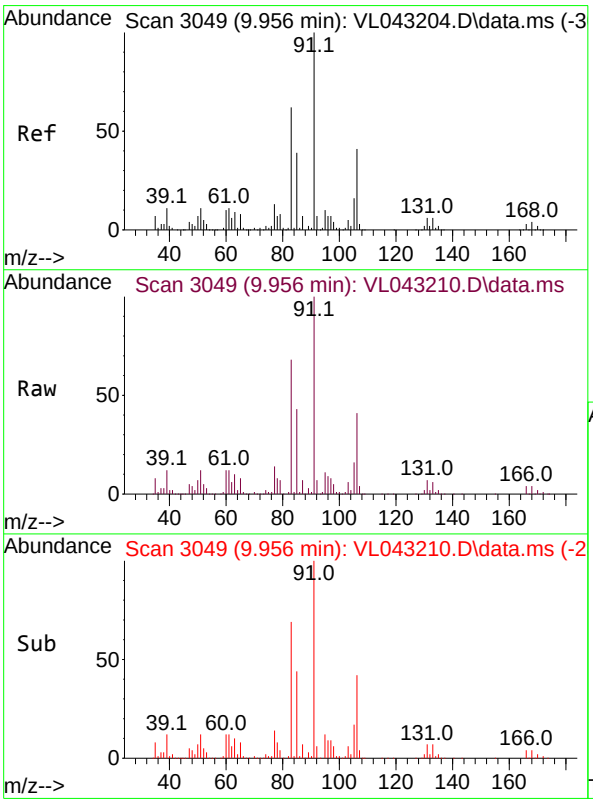
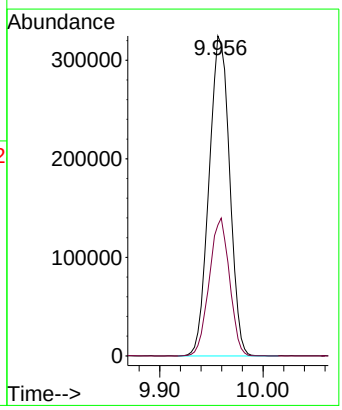


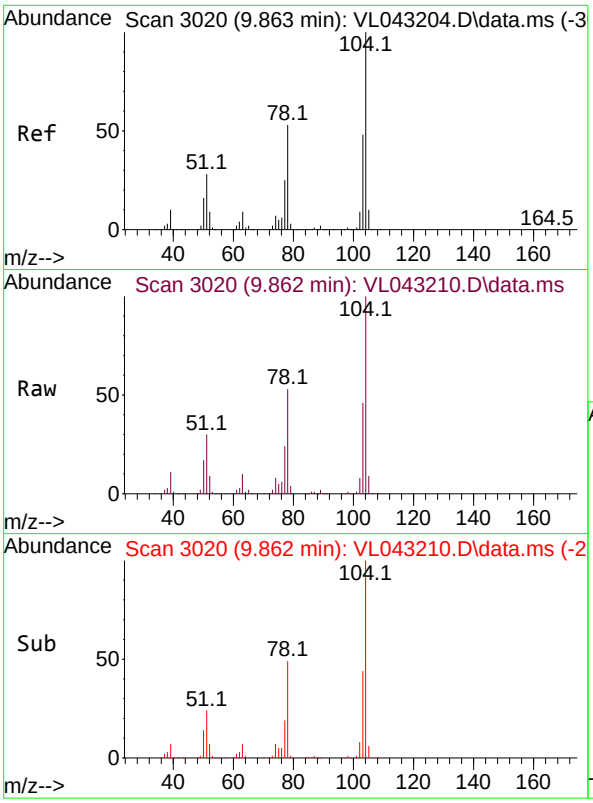


#60
o-Xylene
Concen: 13.826 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 450260

Ion	Ratio	Lower	Upper
91	100		
106	42.4	20.9	62.8

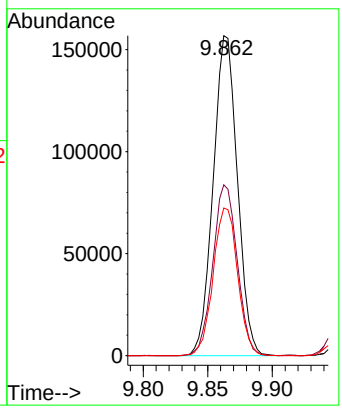




#61
Styrene
Concen: 14.382 ppbv
RT: 9.862 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:104 Resp: 20497

Ion	Ratio	Lower	Upper
104	100		
78	53.7	42.1	63.1
103	46.9	37.2	55.8



Instrument :
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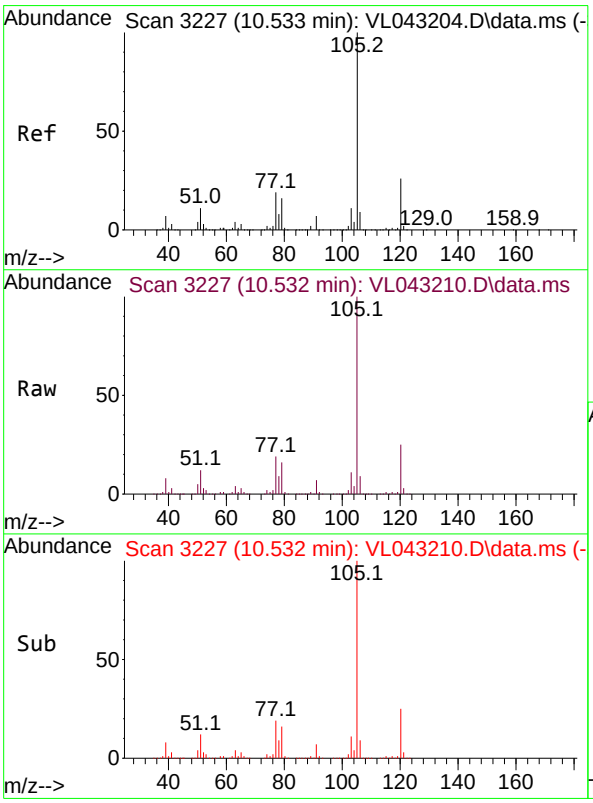
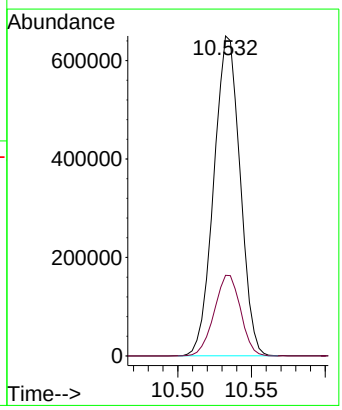
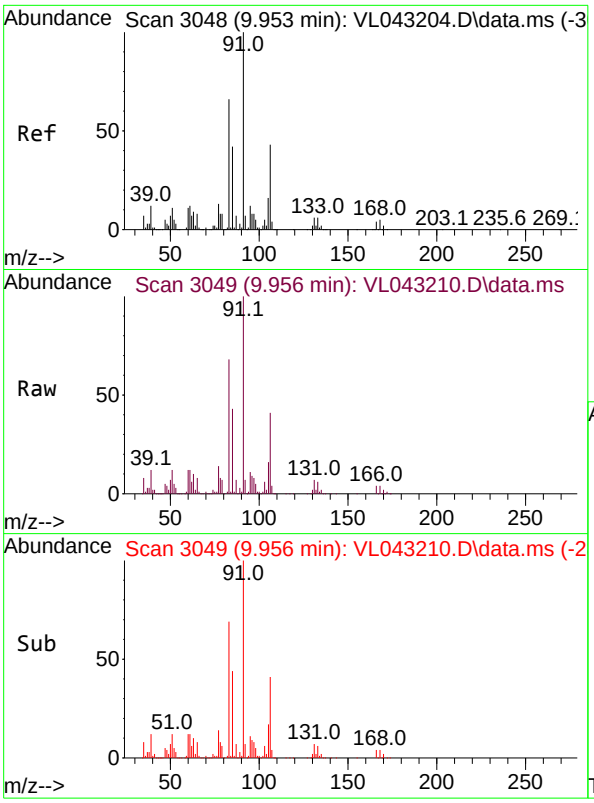


#62
Isopropylbenzene
Concen: 13.791 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 803487

Ion	Ratio	Lower	Upper
105	100		
120	25.3	19.8	29.8

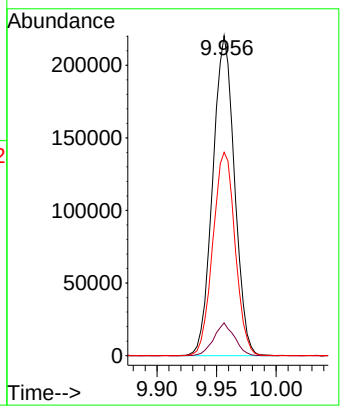




#63
1,1,2,2-Tetrachloroethane
Concen: 13.557 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 83 Resp: 28025

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.3
85	64.9	31.9	95.9



Instrument :
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ClientSampleId :
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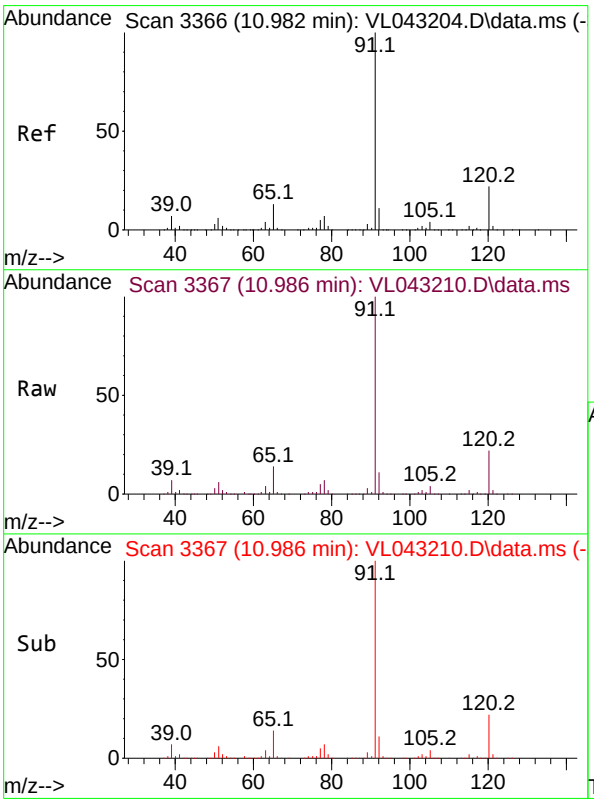
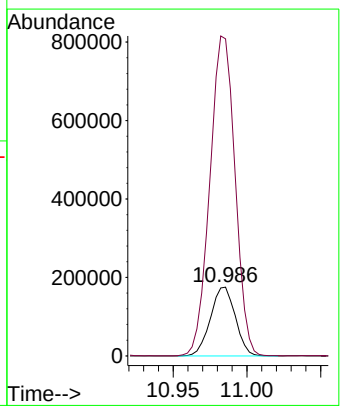
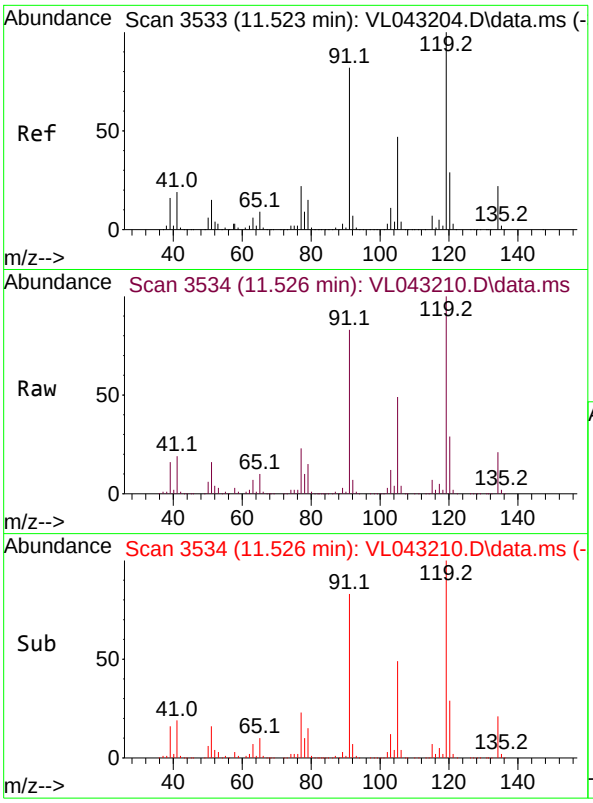


#64
n-propylbenzene
Concen: 13.737 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:120 Resp: 205637

Ion	Ratio	Lower	Upper
120	100		
91	471.6	377.1	565.7

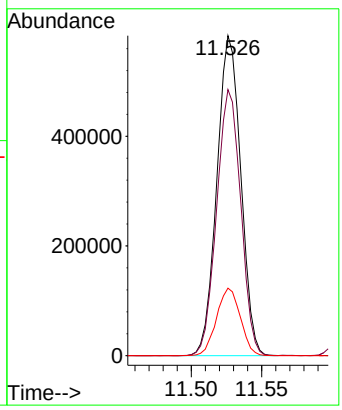




#65
tert-Butylbenzene
Concen: 13.249 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:119 Resp: 68935

Ion	Ratio	Lower	Upper
119	100		
91	83.7	65.3	97.9
134	20.9	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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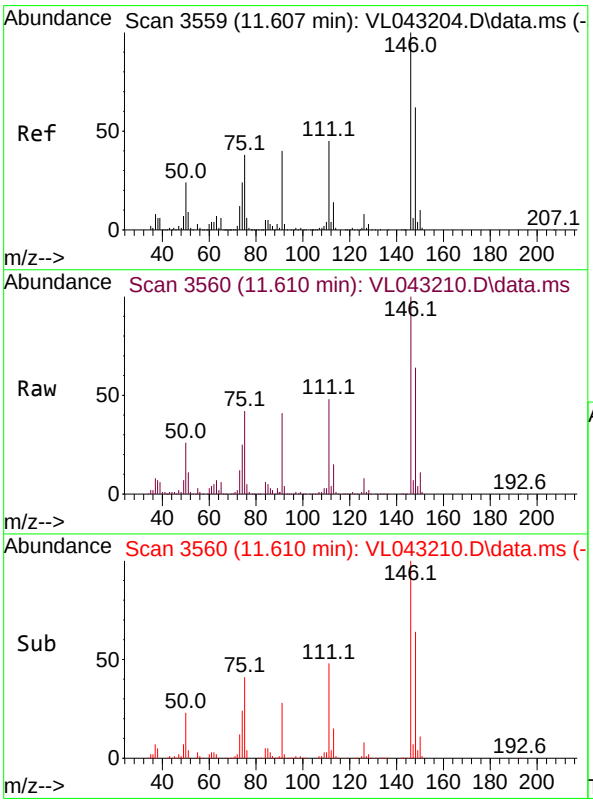
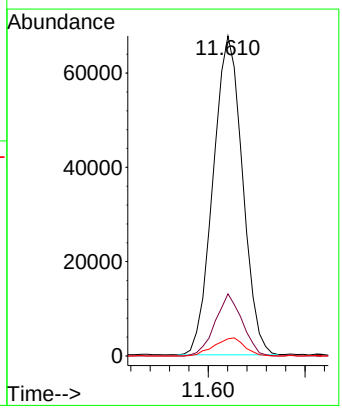
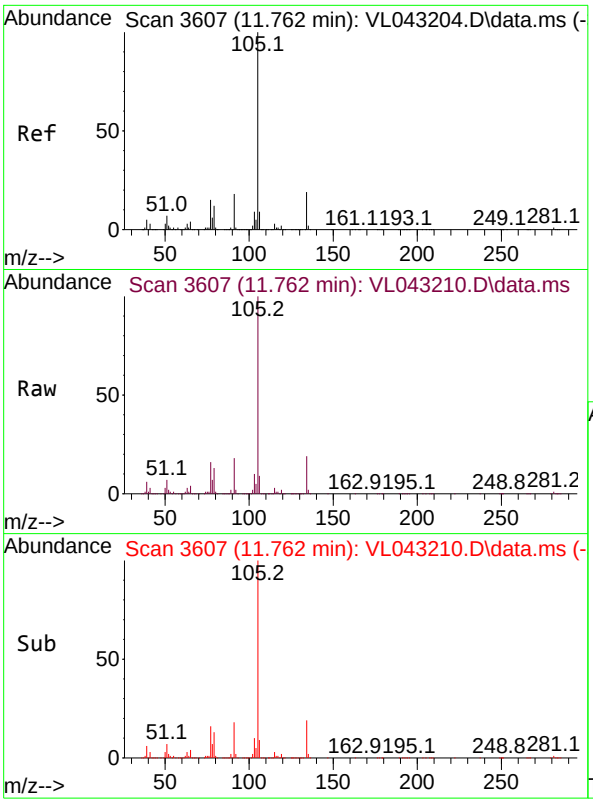


#66
Benzyl Chloride
Concen: 13.520 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 71386

Ion	Ratio	Lower	Upper
91	100		
126	17.9	14.4	21.6
128	5.9	4.6	6.8

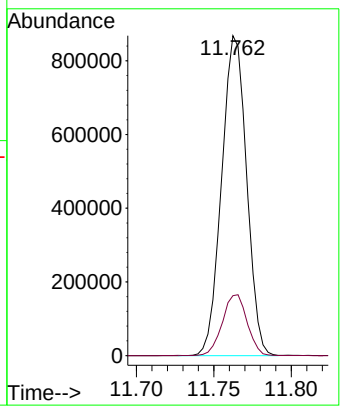




#67
sec-Butylbenzene
Concen: 13.394 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 97278

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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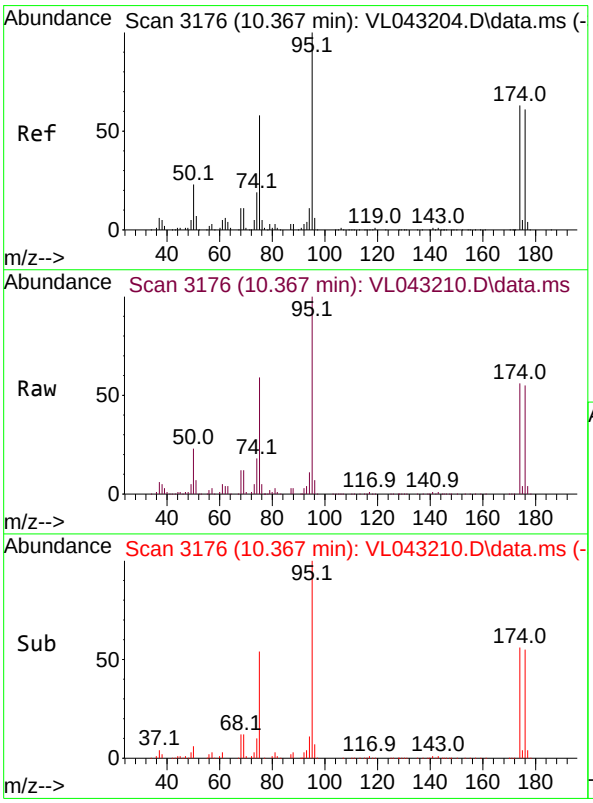
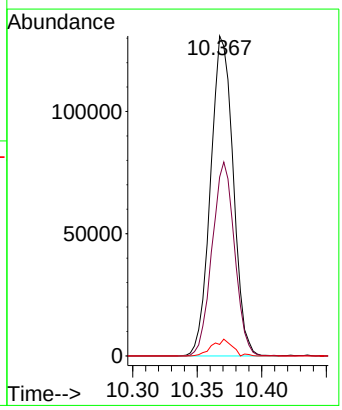
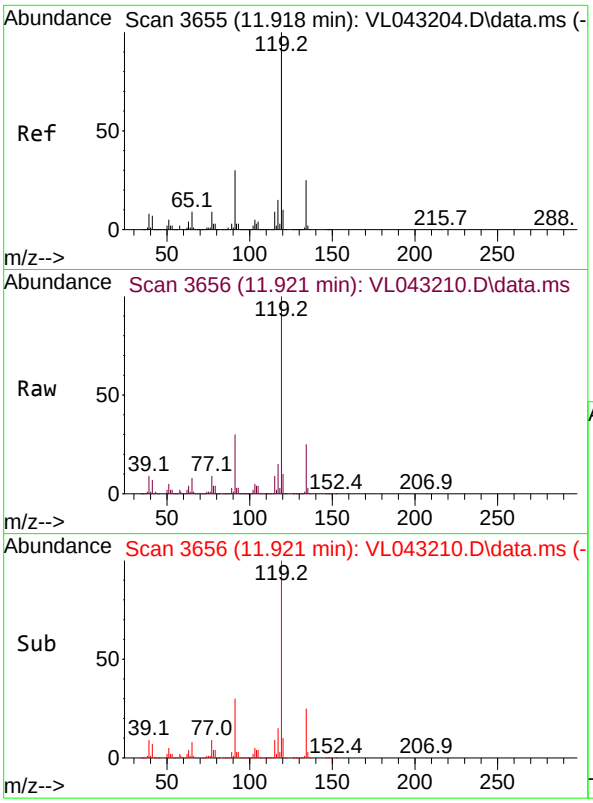


#68
1-Bromo-4-Fluorobenzene
Concen: 10.321 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 95 Resp: 159814

Ion	Ratio	Lower	Upper
95	100		
174	60.3	50.2	75.2
175	4.7	4.1	6.1

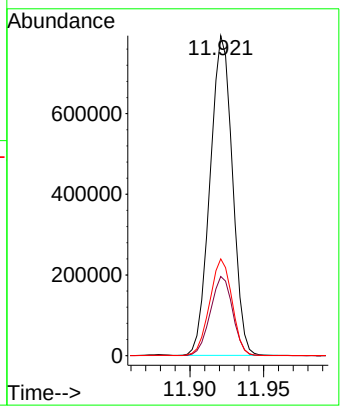




#69
p-Isopropyltoluene
Concen: 13.602 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:119 Resp: 836888

Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.2	30.2
91	30.3	23.8	35.8



Instrument :
MSVOA_L
ClientSampleId :
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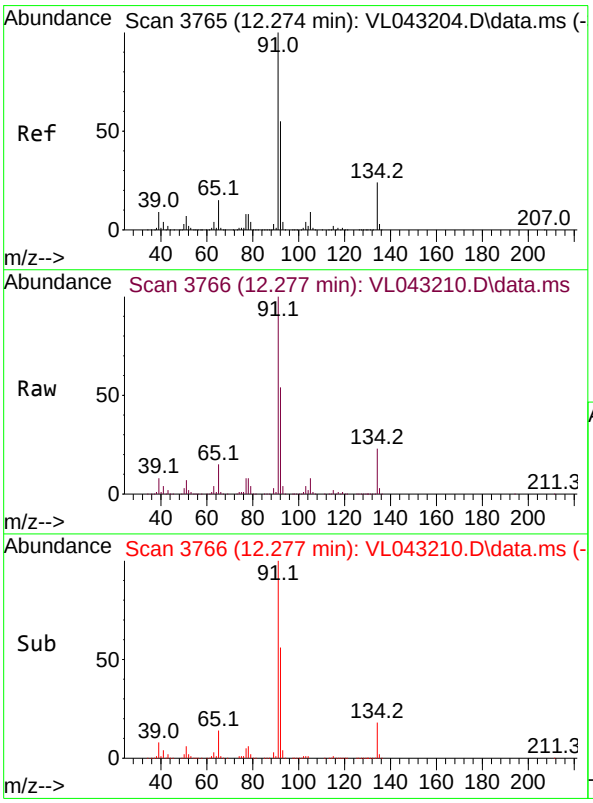
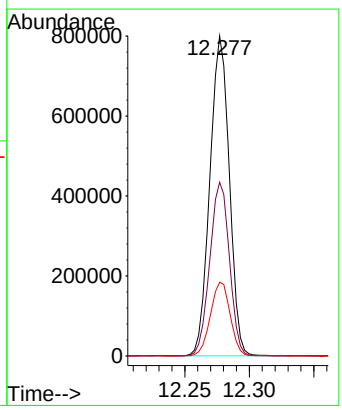
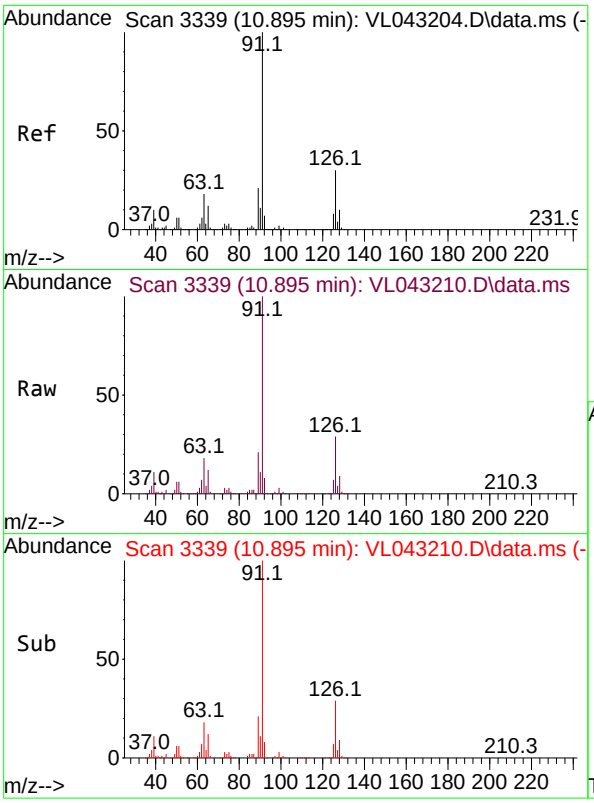


#70
n-Butylbenzene
Concen: 14.050 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 838598

Ion	Ratio	Lower	Upper
91	100		
92	54.9	43.5	65.3
134	23.4	19.0	28.6

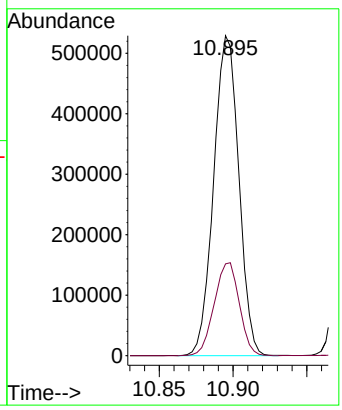




#71
2-Chlorotoluene
Concen: 13.976 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 62588

Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.7	46.7



Instrument :
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ClientSampleId :
VSTDICC015

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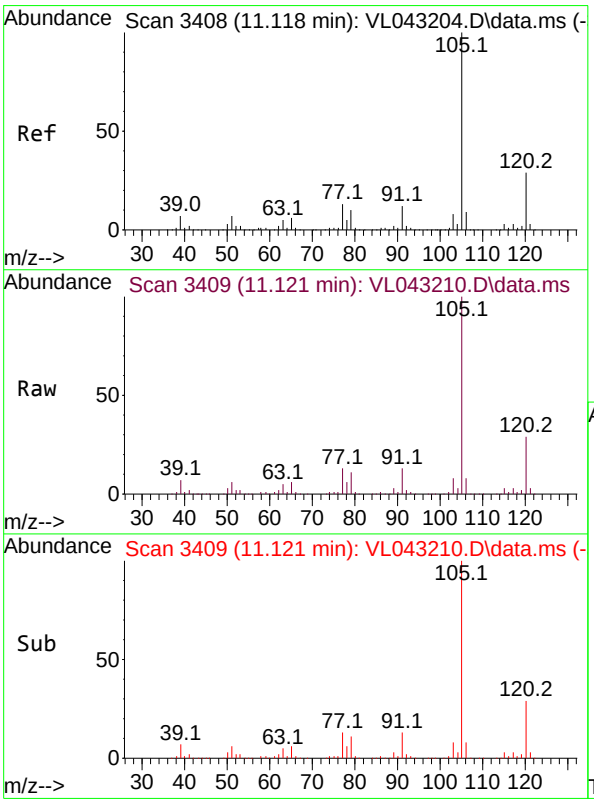
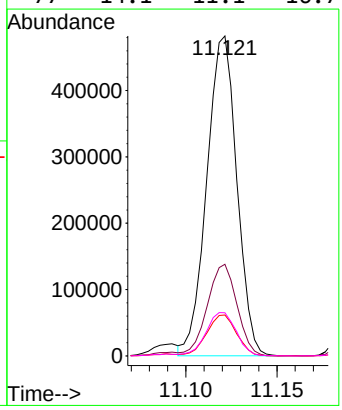
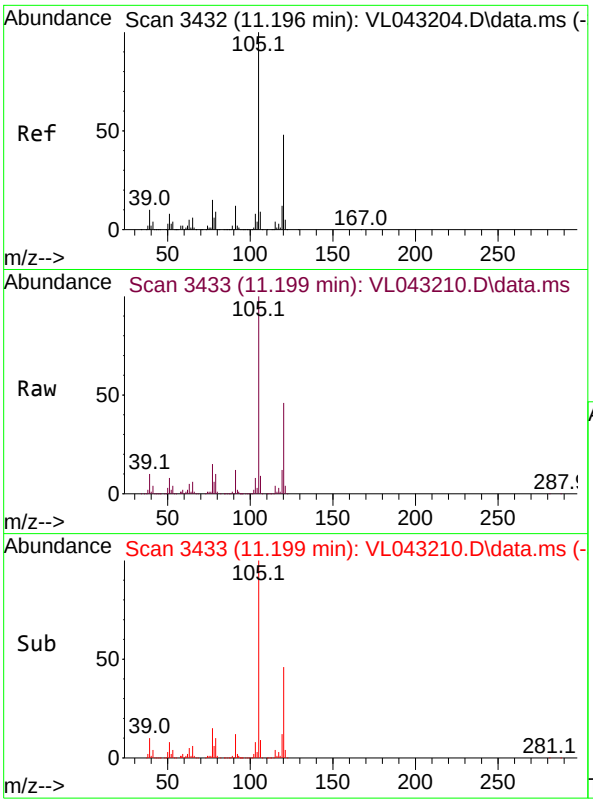


#72
4-Ethyltoluene
Concen: 13.961 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 553654

Ion	Ratio	Lower	Upper
105	100		
120	29.3	23.8	35.8
91	13.2	10.3	15.5
77	14.1	11.1	16.7

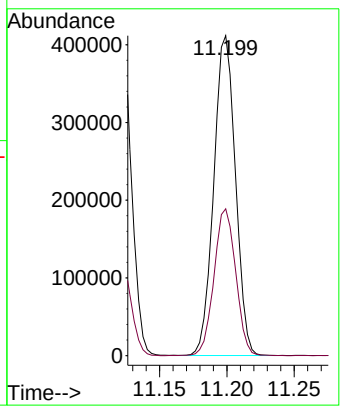




#73
1,3,5-Trimethylbenzene
Concen: 13.846 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 46078

Ion	Ratio	Lower	Upper
105	100		
120	45.9	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
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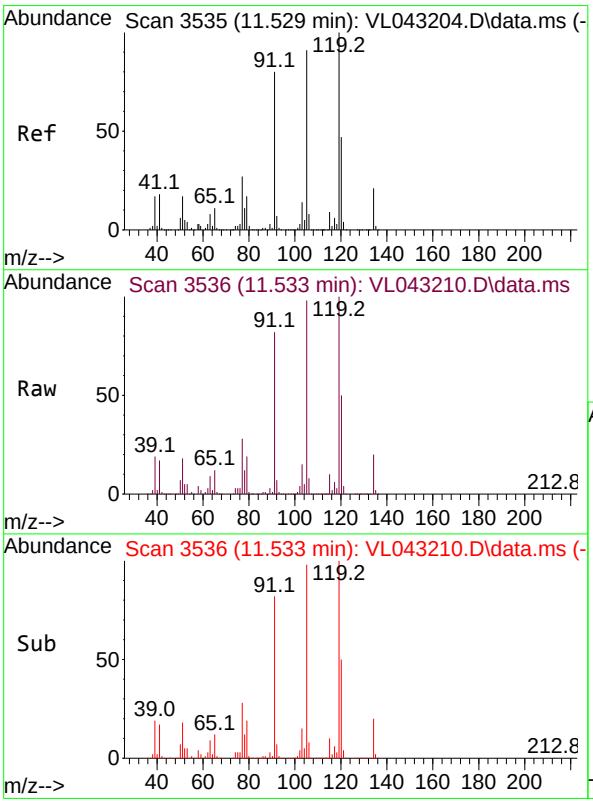
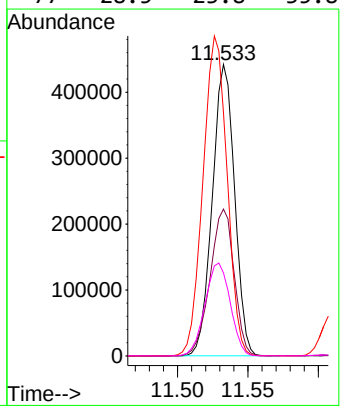
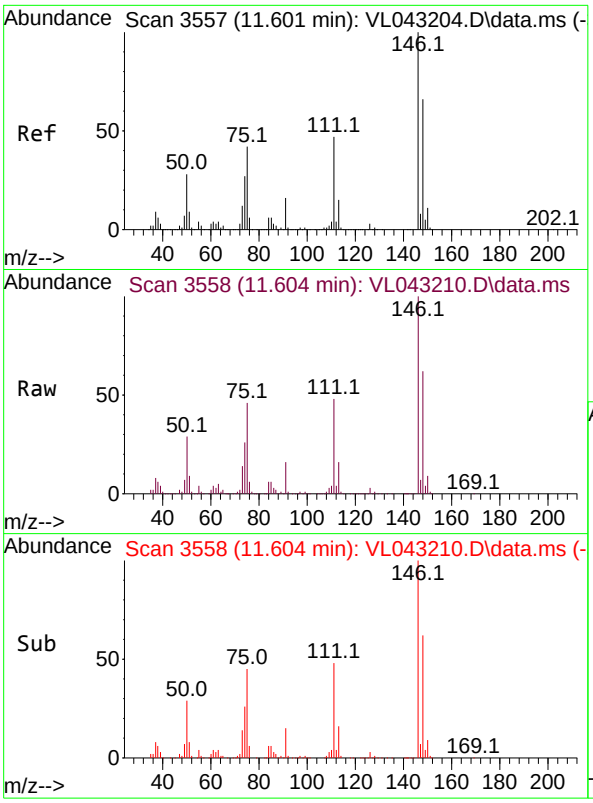


#74
1,2,4-Trimethylbenzene
Concen: 13.409 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 486995

Ion	Ratio	Lower	Upper
105	100		
120	50.4	41.7	62.5
91	83.4	70.0	105.0
77	28.5	23.8	35.8

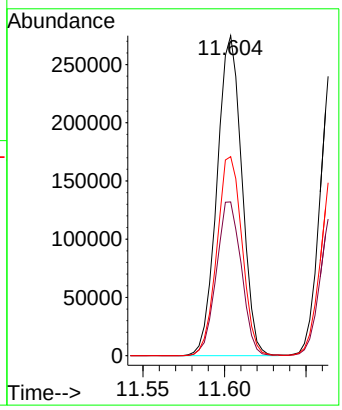




#75
1,3-Dichlorobenzene
Concen: 13.784 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:146 Resp: 29214

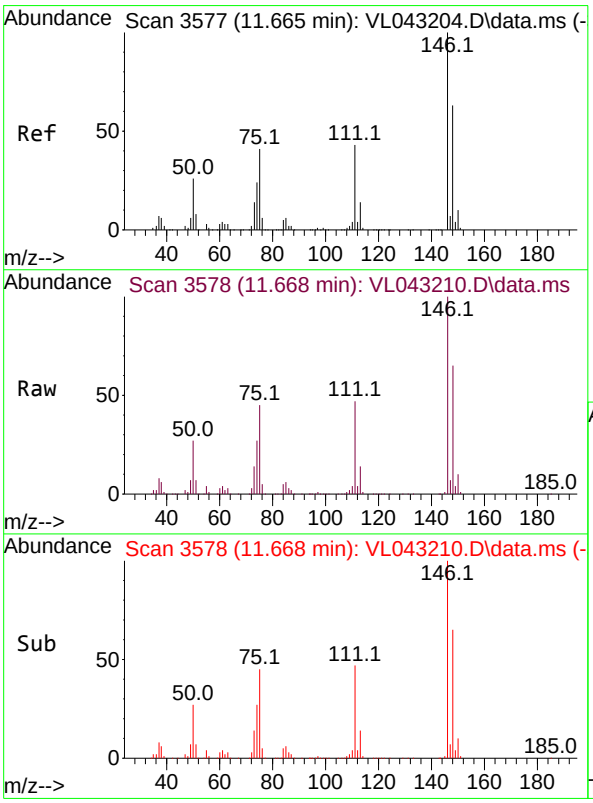
Ion	Ratio	Lower	Upper
146	100		
111	48.4	23.4	70.3
148	63.1	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

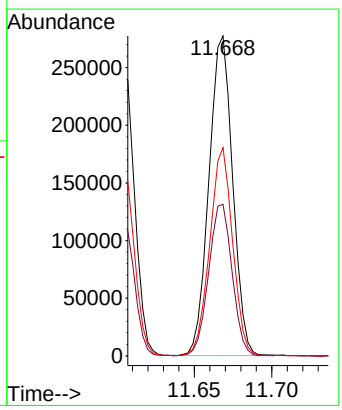
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

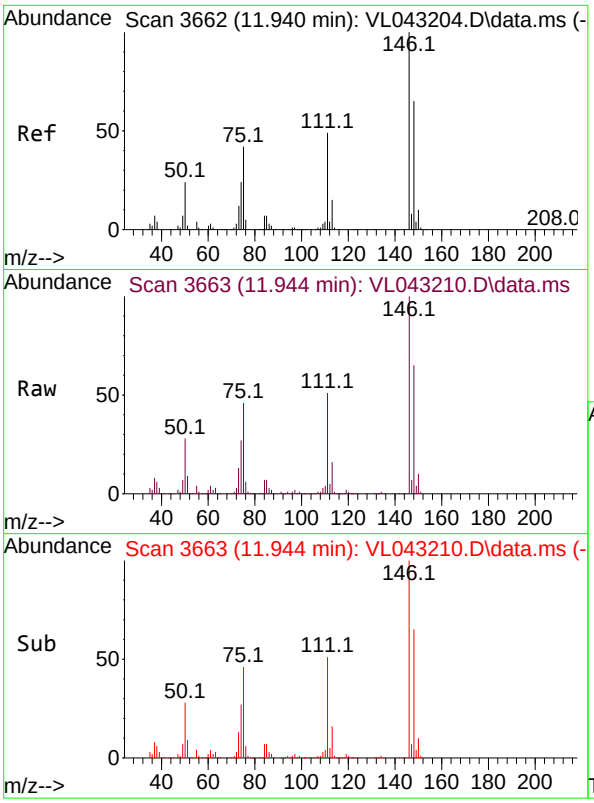


#76
1,4-Dichlorobenzene
Concen: 13.903 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:146 Resp: 294723

Ion	Ratio	Lower	Upper
146	100		
111	47.2	22.8	68.3
148	63.2	31.8	95.4

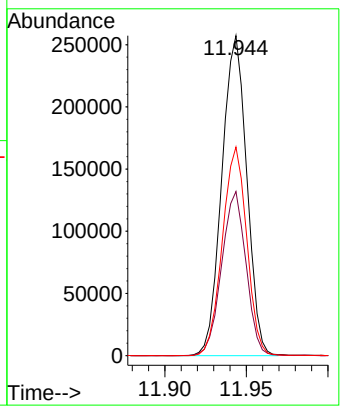




#77
1,2-Dichlorobenzene
Concen: 13.420 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:146 Resp: 27346

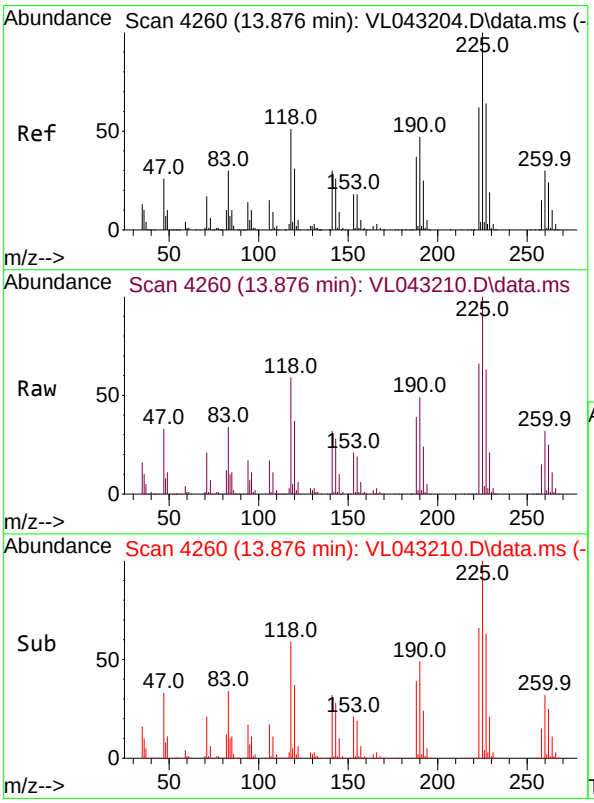
Ion	Ratio	Lower	Upper
146	100		
111	50.2	24.3	73.0
148	63.9	31.6	94.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

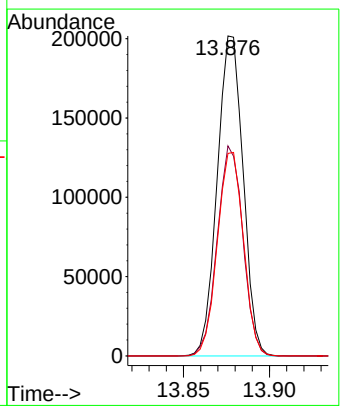
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

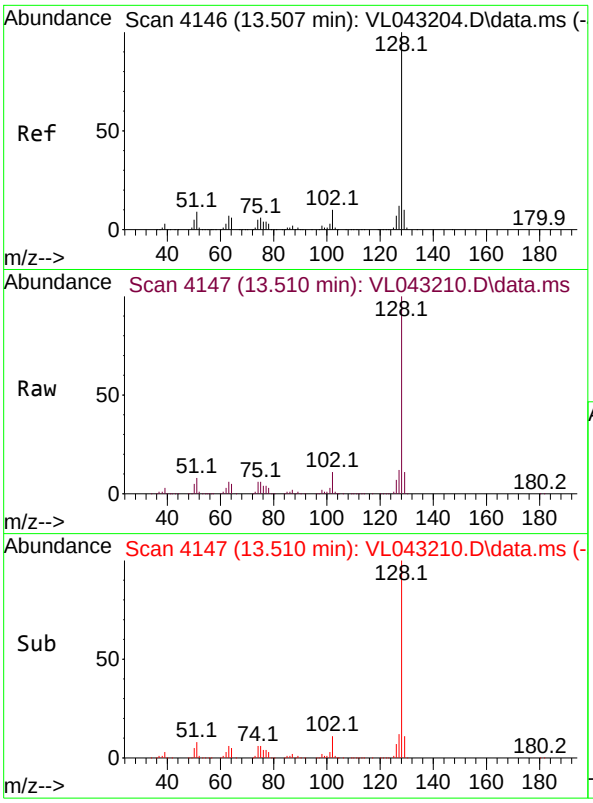


#78
Hexachloro-1,3-Butadiene
Concen: 12.416 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:225 Resp: 211153

Ion	Ratio	Lower	Upper
225	100		
223	64.9	50.2	75.4
227	63.9	51.1	76.7

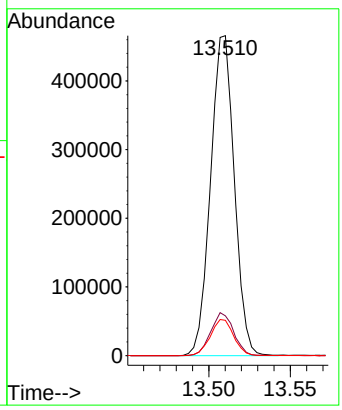




#79
Naphthalene
Concen: 14.670 ppbv
RT: 13.510 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:128 Resp: 473229

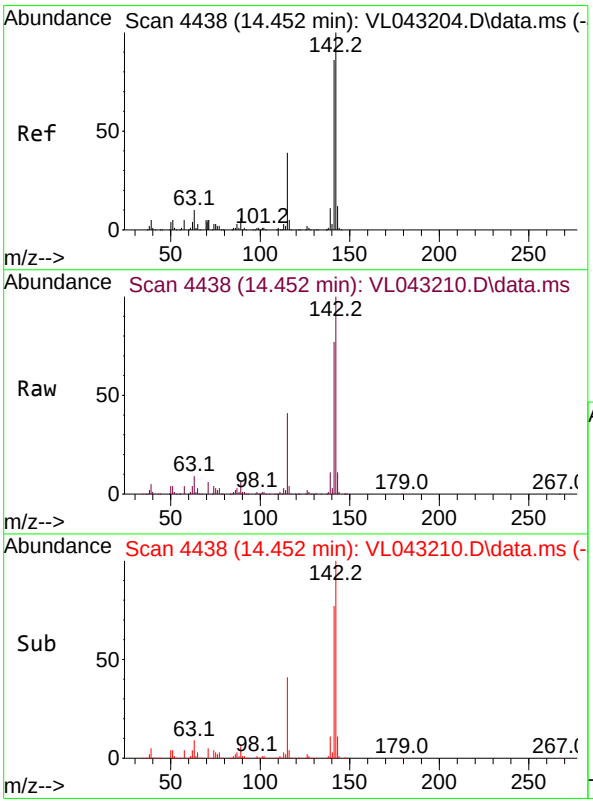
Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.9	14.9
129	11.1	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

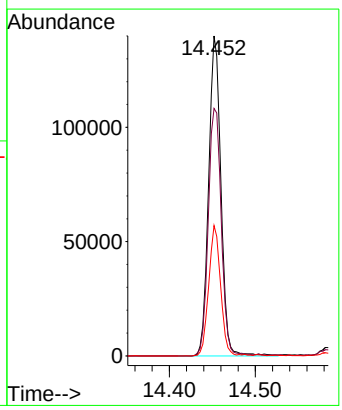
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

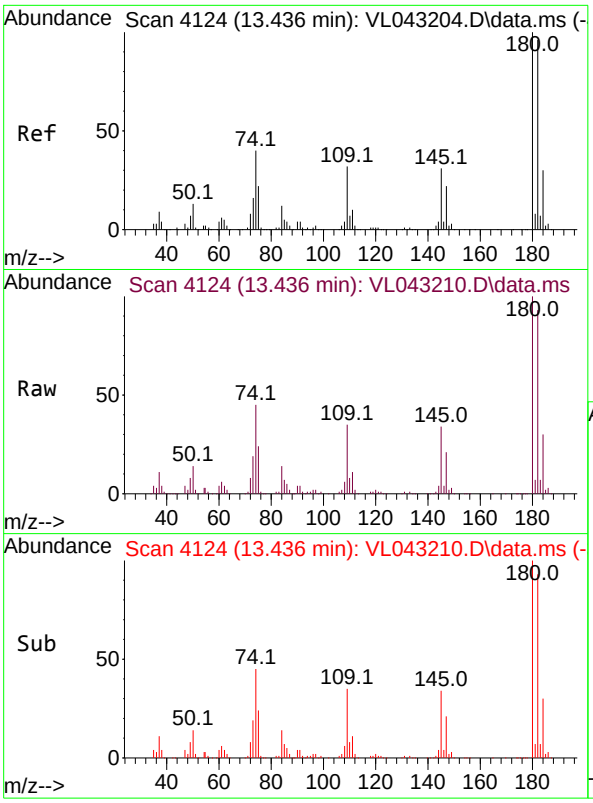


#80
Naphthalene,2-methyl-
Concen: 16.418 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:142 Resp: 139019

Ion	Ratio	Lower	Upper
142	100		
141	82.6	67.1	100.7
115	40.2	31.9	47.9

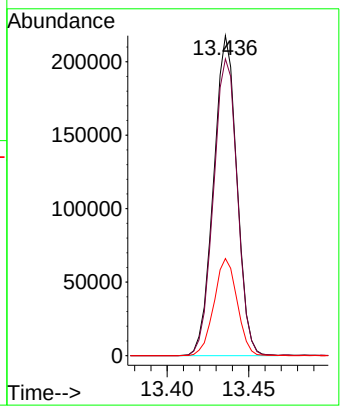




#81
1,2,4-Trichlorobenzene
Concen: 14.990 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:180 Resp: 21626

Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.4	116.2
184	30.1	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	97854	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	261914	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	216212	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	159242	10.048	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	133374	9.664	ppbv	98
3) Chlorodifluoromethane	1.476	51	124858	9.199	ppbv	98
4) Chloromethane	1.535	50	46906	9.090	ppbv	95
5) Vinyl Chloride	1.580	62	47932	8.493	ppbv	95
6) Bromomethane	1.667	94	22230	8.126	ppbv	99
7) Chloroethane	1.703	64	19854	9.033	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	110587	9.632	ppbv	97
9) Propene	1.483	41	54006m	9.370	ppbv	
10) Heptane	4.975	43	149202	8.698	ppbv	99
11) Trichlorofluoromethane	1.878	101	134746	10.077	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	100984	9.673	ppbv	99
13) Ethanol	1.719	45	15371	7.584	ppbv	92
14) Bromoethene	1.781	108	36979	9.240	ppbv	98
15) Acetone	1.832	43	104830	7.711	ppbv	99
16) 1,3-Butadiene	1.609	39	54795	9.041	ppbv	96
17) tert-Butyl alcohol	2.036	59	164987	9.245	ppbv	99
18) 1,1-Dichloroethene	2.033	96	43833	9.017	ppbv	99
19) Isopropyl Alcohol	1.884	45	64772	8.431	ppbv	97
20) Methylene Chloride	2.062	84	41254	10.323	ppbv	95
21) Allyl Chloride	2.095	41	75516	8.256	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	50228	9.041	ppbv	92
23) Vinyl Acetate	2.460	43	140156	8.539	ppbv	98
24) 1,1-Dichloroethane	2.409	63	103187	9.622	ppbv	97
25) Ethyl Acetate	2.829	43	258609	8.820	ppbv	99
26) Hexane	2.826	57	114312	8.892	ppbv	98
27) Carbon Disulfide	2.150	76	125048	9.528	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	64183	10.171	ppbv	98
29) Chloroform	2.846	83	173977	9.521	ppbv	99
30) Cyclohexane	3.852	84	98598	9.148	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	119843	9.379	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	182262	9.358	ppbv	98
34) 2-Butanone	2.551	43	160977	8.707	ppbv	98
35) Carbon Tetrachloride	3.761	117	182902	9.200	ppbv	98
36) Benzene	3.655	78	233094	9.293	ppbv	99
37) 1,2-Dichloroethane	3.214	62	143363	9.772	ppbv	98
38) Trichloroethene	4.542	130	90993	9.272	ppbv	95
39) 1,2-Dichloropropane	4.305	63	83416	9.086	ppbv	95
40) 1,4-Dioxane	4.571	88	32109	7.780	ppbv #	95
41) Tetrahydrofuran	3.046	42	90769	8.891	ppbv	98
42) Bromodichloromethane	4.486	83	195442	9.657	ppbv	96
43) Methyl Methacrylate	4.872	69	116325	8.737	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	393438	9.133	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	97587	7.863	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	115476	7.924	ppbv	97
47) 1,1,2-Trichloroethane	6.577	97	88525	9.086	ppbv	95
48) Dibromochloromethane	7.380	129	159365	9.514	ppbv	99
49) Bromoform	9.477	173	134790	9.085	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	224791	8.631	ppbv	99
51) 2-Hexanone	7.429	43	166506	8.233	ppbv #	100
52) Tetrachloroethene	8.222	164	82890	8.884	ppbv	98
53) Toluene	6.924	91	273172	9.197	ppbv	99
54) 1,2-Dibromoethane	7.645	107	124804	8.705	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.921	131	142512	8.969	ppbv	98
57) Chlorobenzene	8.917	112	199373	8.981	ppbv	96
58) Ethyl Benzene	9.351	91	381474	9.167	ppbv	97
59) m/p-Xylene	9.549	91	604165m	18.108	ppbv	
60) o-Xylene	9.960	91	295836	8.876	ppbv	99
61) Styrene	9.866	104	127117	8.714	ppbv	97
62) Isopropylbenzene	10.536	105	525717	8.816	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.960	83	178591	8.421	ppbv	100
64) n-propylbenzene	10.986	120	131634	8.591	ppbv	96
65) tert-Butylbenzene	11.529	119	450819	8.465	ppbv	99
66) Benzyl Chloride	11.614	91	27878	5.159	ppbv	99
67) sec-Butylbenzene	11.766	105	623520	8.388	ppbv	100
69) p-Isopropyltoluene	11.924	119	520880	8.272	ppbv	99
70) n-Butylbenzene	12.280	91	513027	8.398	ppbv	99
71) 2-Chlorotoluene	10.898	91	396434	8.649	ppbv	99
72) 4-Ethyltoluene	11.122	105	356325	8.779	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	294977	8.660	ppbv	95
74) 1,2,4-Trimethylbenzene	11.533	105	314606	8.463	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	180491	8.320	ppbv	99
76) 1,4-Dichlorobenzene	11.669	146	179491	8.273	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	166137	7.966	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	125707	7.222	ppbv	100
79) Naphthalene	13.510	128	273029	8.270	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	74802	8.631	ppbv	97
81) 1,2,4-Trichlorobenzene	13.436	180	125470	8.497	ppbv	99

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

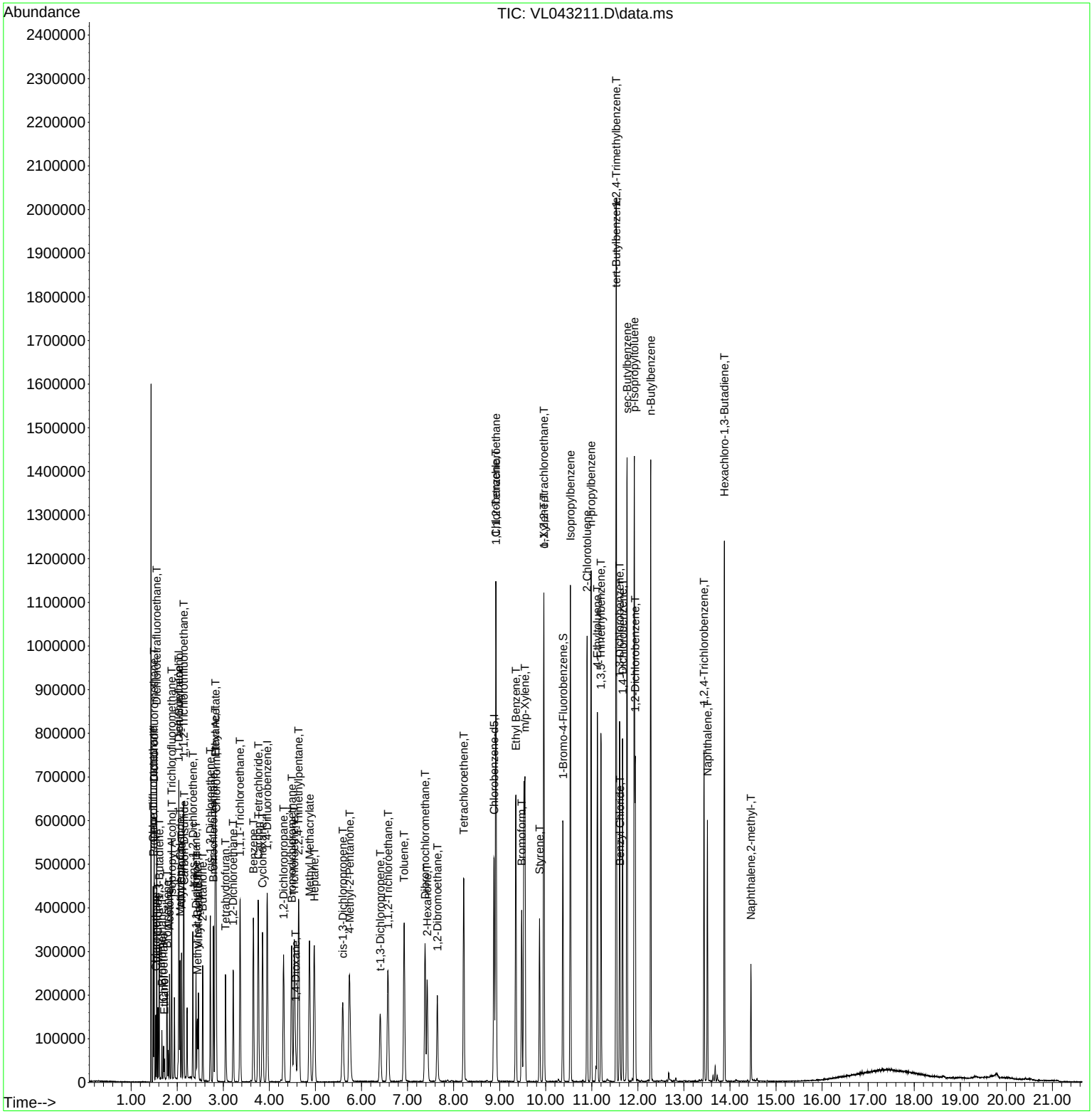
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

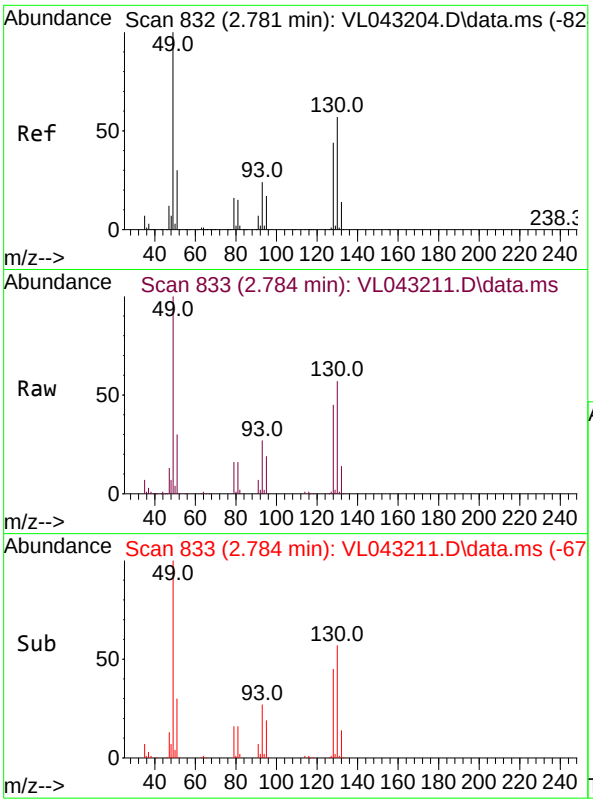
Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

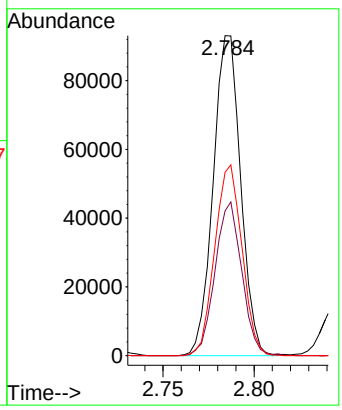




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 49 Resp: 9785

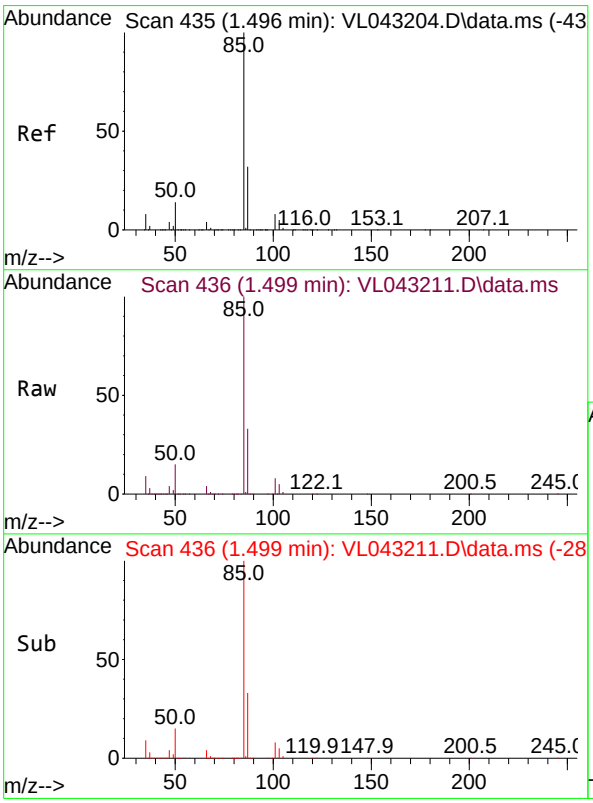
Ion	Ratio	Lower	Upper
49	100		
128	46.7	23.0	69.0
130	59.0	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations
APPROVED

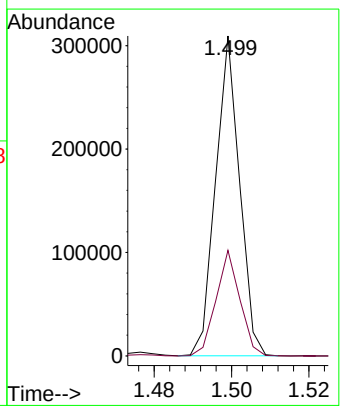
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

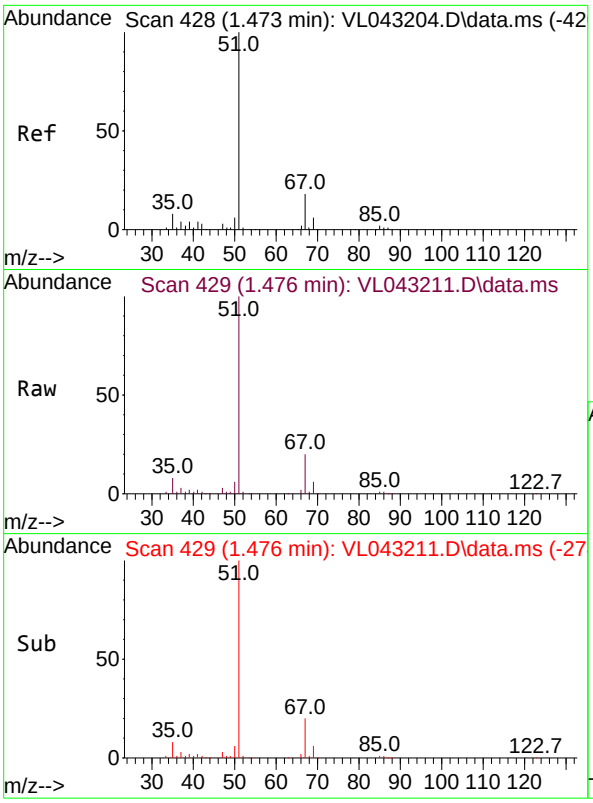


#2
Dichlorodifluoromethane
Concen: 9.664 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 85 Resp: 133374

Ion	Ratio	Lower	Upper
85	100		
87	33.0	25.4	38.2

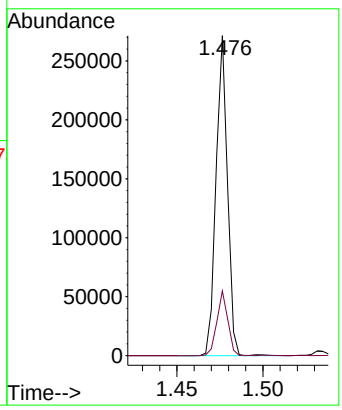




#3
Chlorodifluoromethane
Concen: 9.199 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 51 Resp: 12485

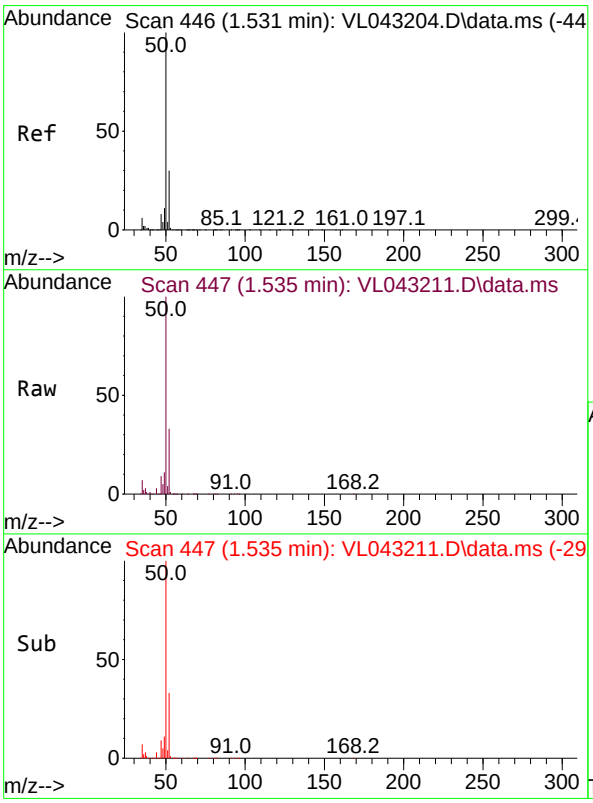
Ion	Ratio	Lower	Upper
51	100		
67	19.6	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations
APPROVED

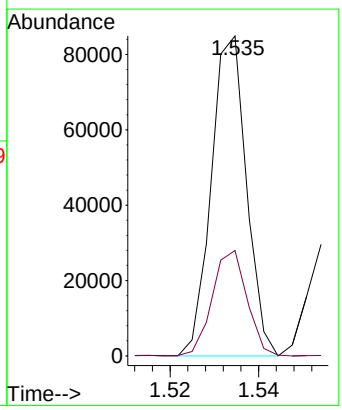
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

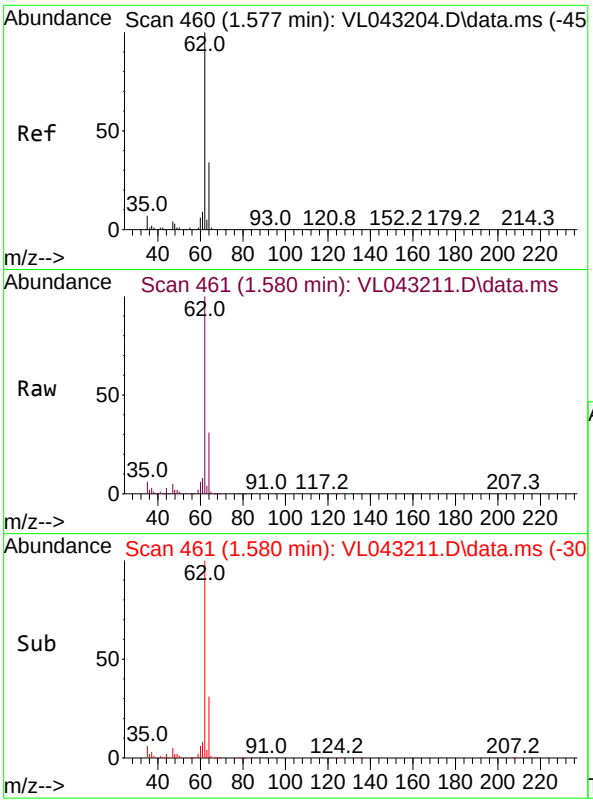


#4
Chloromethane
Concen: 9.090 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 50 Resp: 46906

Ion	Ratio	Lower	Upper
50	100		
52	32.8	24.1	36.1

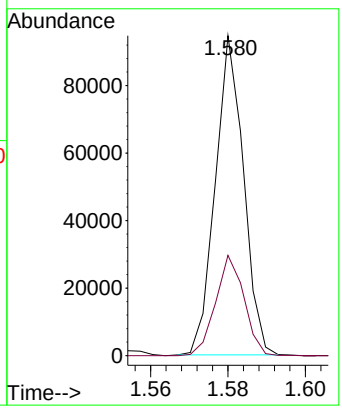




#5
Vinyl Chloride
Concen: 8.493 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 62 Resp: 4793

Ion	Ratio	Lower	Upper
62	100		
64	31.4	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
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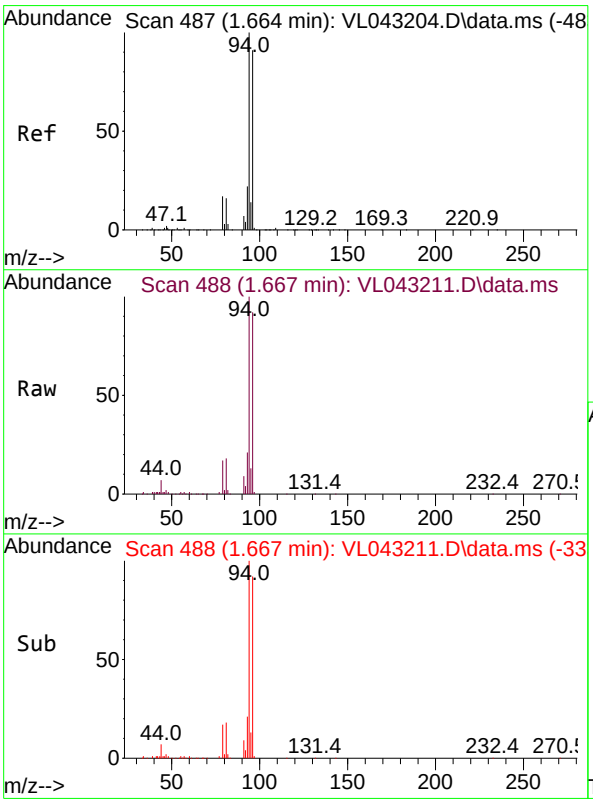
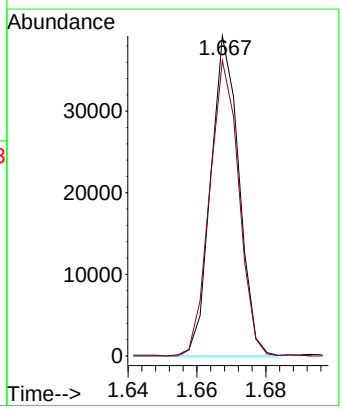
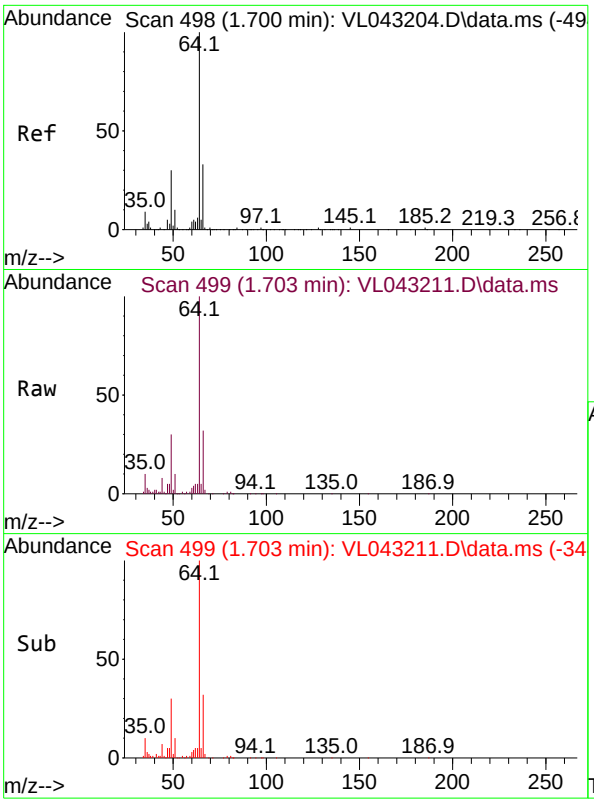


#6
Bromomethane
Concen: 8.126 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 94 Resp: 22230

Ion	Ratio	Lower	Upper
94	100		
96	92.2	72.9	109.3

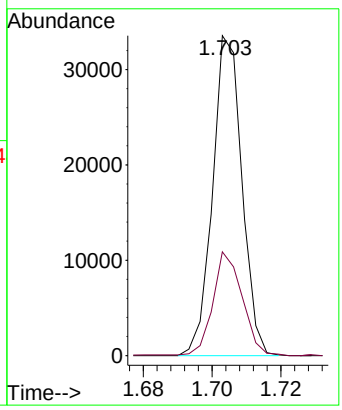




#7
Chloroethane
Concen: 9.033 ppbv
RT: 1.703 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 64 Resp: 1985

Ion	Ratio	Lower	Upper
64	100		
66	32.4	26.8	40.2



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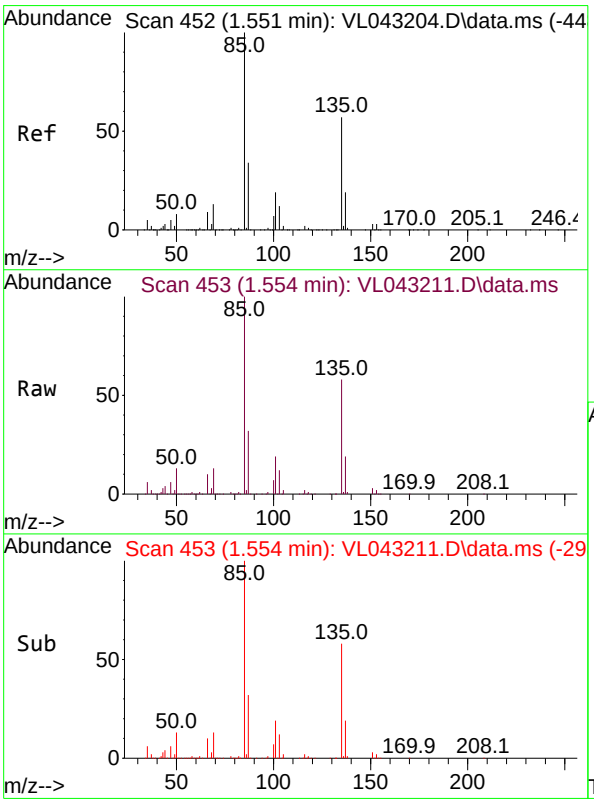
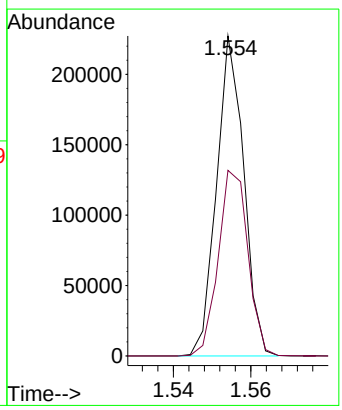
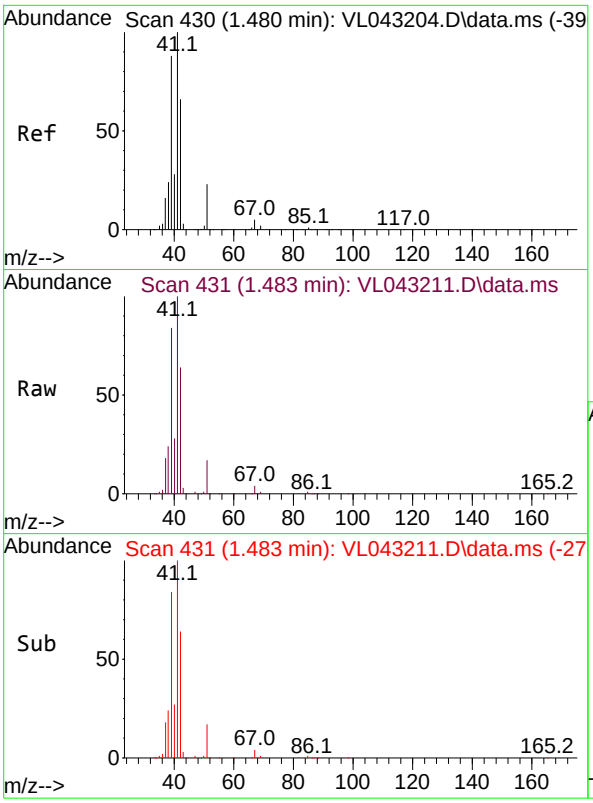


#8
Dichlorotetrafluoroethane
Concen: 9.632 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 85 Resp: 110587

Ion	Ratio	Lower	Upper
85	100		
135	63.5	52.6	79.0

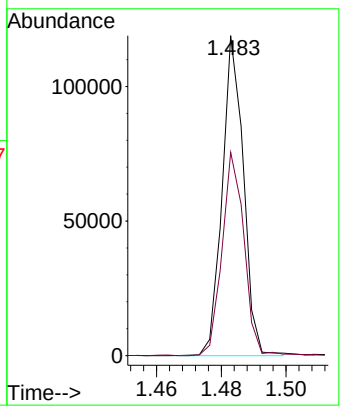




#9
Propene
Concen: 9.370 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 41 Resp: 5400

Ion	Ratio	Lower	Upper
41	100		
42	4.4	3.7	5.5



Instrument :
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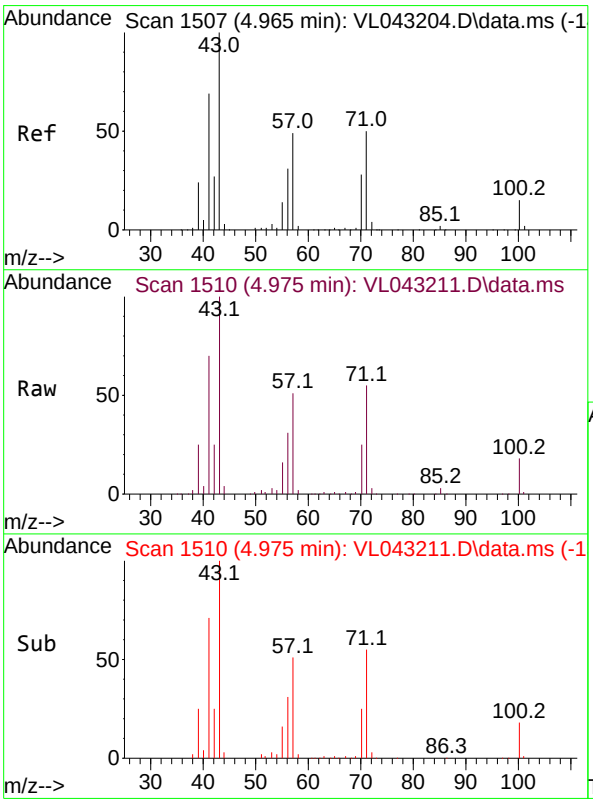
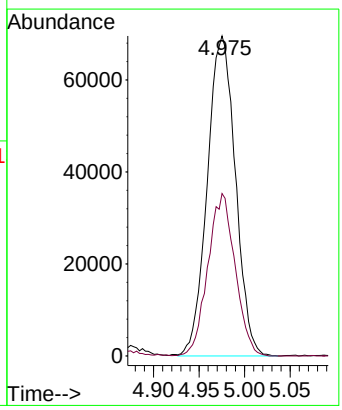
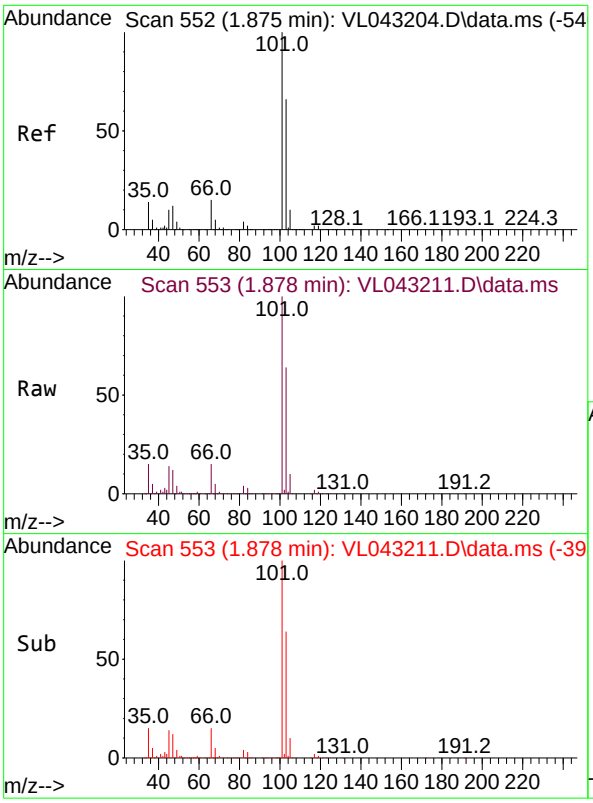


#10
Heptane
Concen: 8.698 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 149202

Ion	Ratio	Lower	Upper
43	100		
57	49.1	39.7	59.5

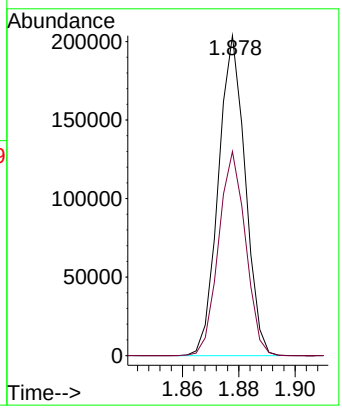




#11
Trichlorofluoromethane
Concen: 10.077 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:101 Resp: 13474

Ion	Ratio	Lower	Upper
101	100		
103	63.8	52.6	79.0



Instrument :
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ClientSampleId :
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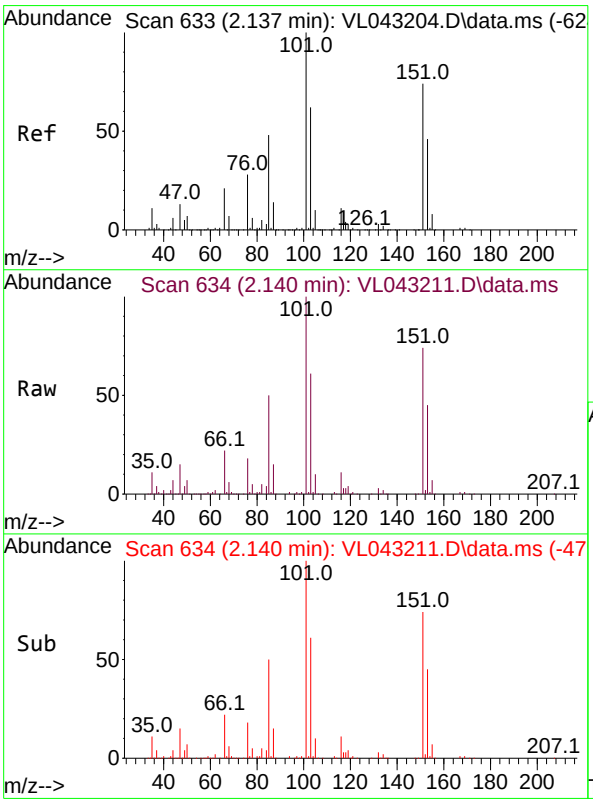
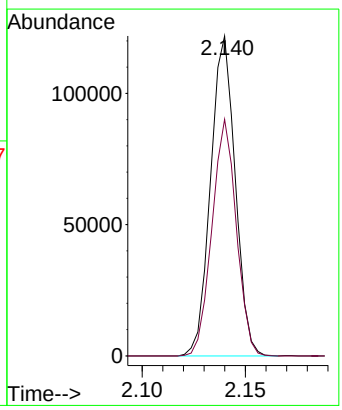
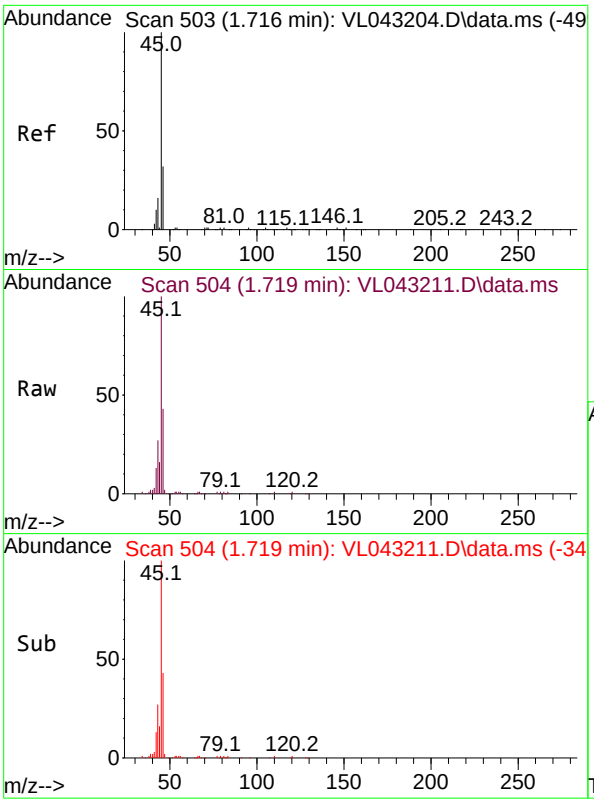


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.673 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:101 Resp: 100984

Ion	Ratio	Lower	Upper
101	100		
151	73.1	59.2	88.8

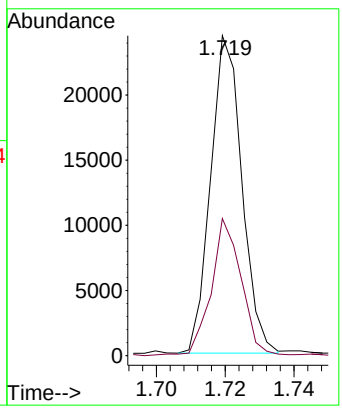




#13
Ethanol
Concen: 7.584 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 45 Resp: 1537

Ion	Ratio	Lower	Upper
45	100		
46	42.2	15.0	59.8



Instrument :
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ClientSampleId :
ICVVL111825

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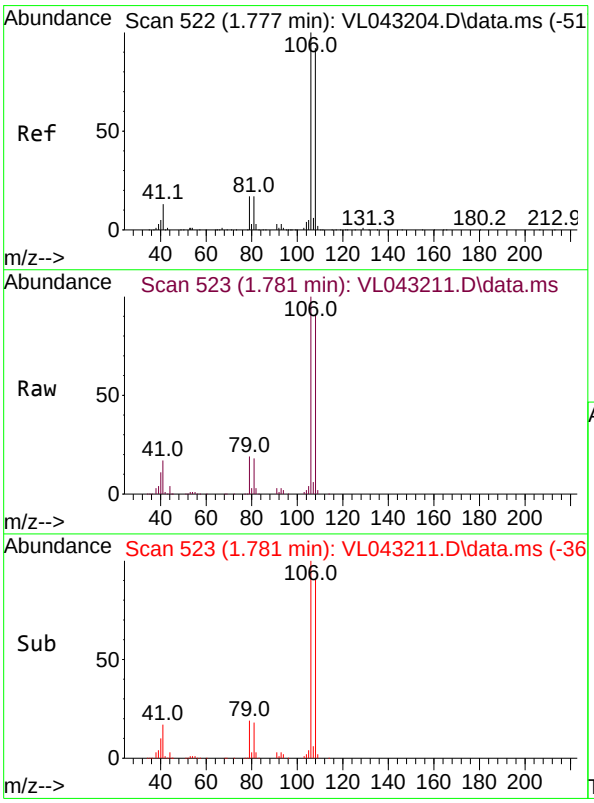
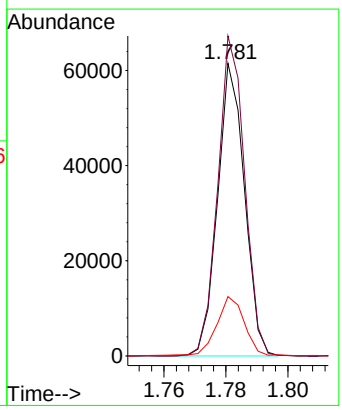
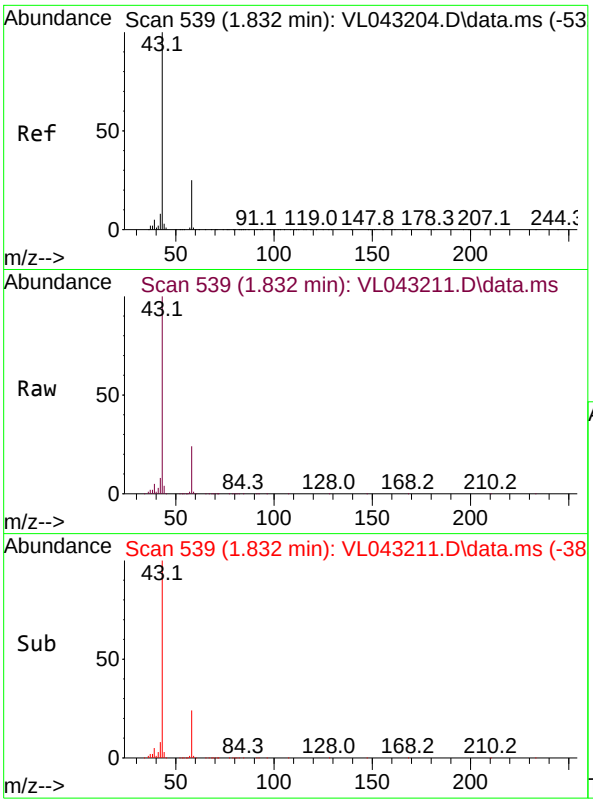


#14
Bromoethene
Concen: 9.240 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:108 Resp: 36979

Ion	Ratio	Lower	Upper
108	100		
106	109.3	88.9	133.3
79	21.9	16.5	24.7

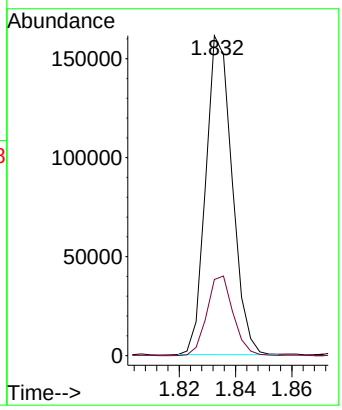




#15
Acetone
Concen: 7.711 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 10483

Ion	Ratio	Lower	Upper
43	100		
58	25.2	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
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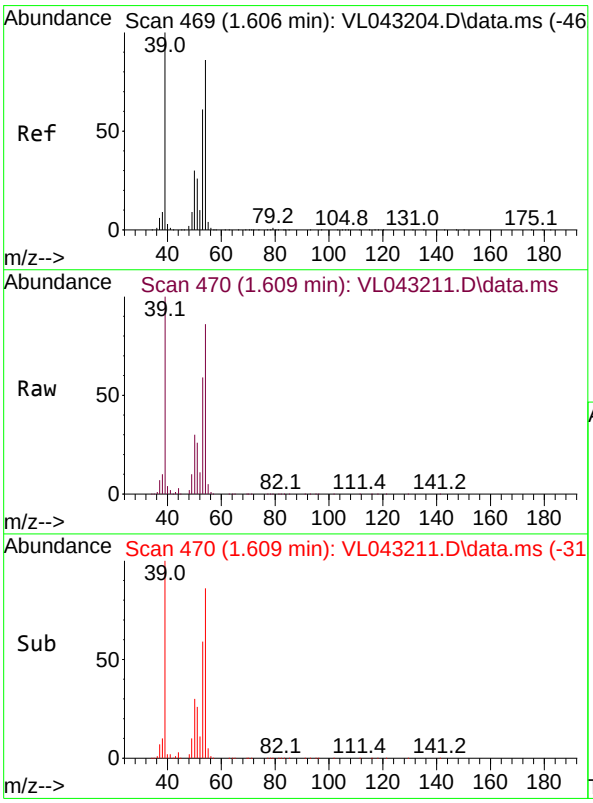
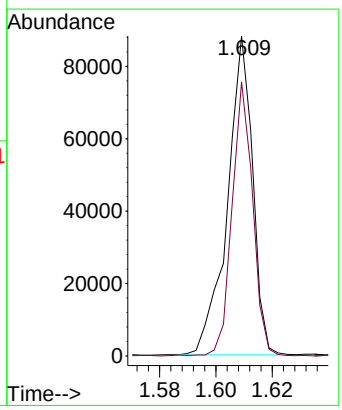
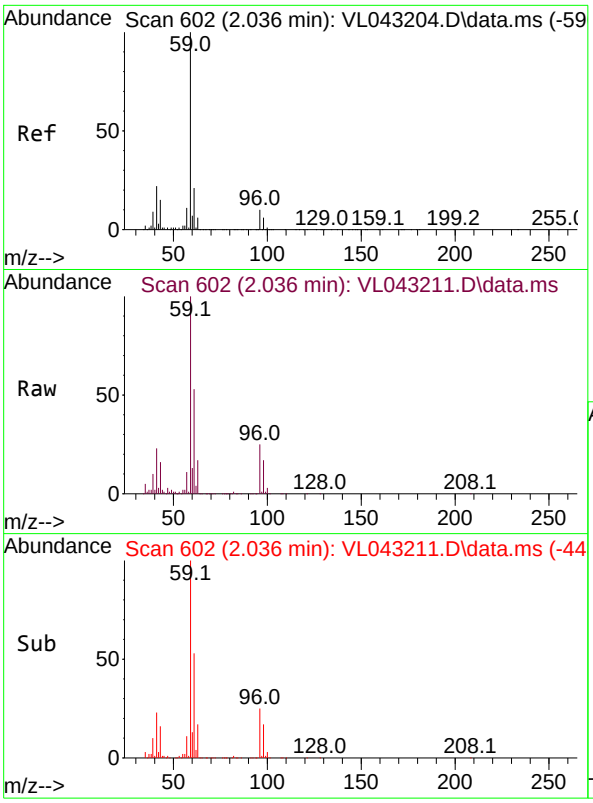


#16
1,3-Butadiene
Concen: 9.041 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 39 Resp: 54795

Ion	Ratio	Lower	Upper
39	100		
54	71.3	59.4	89.2

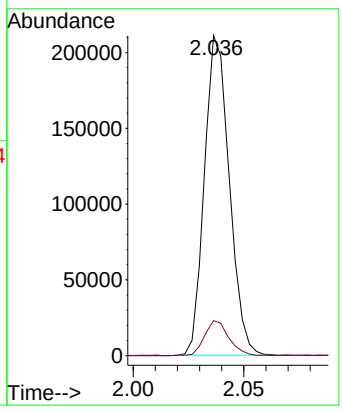




#17
tert-Butyl alcohol
Concen: 9.245 ppbv
RT: 2.036 min Scan# 6(
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 59 Resp: 16498

Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.0	13.4



Instrument :
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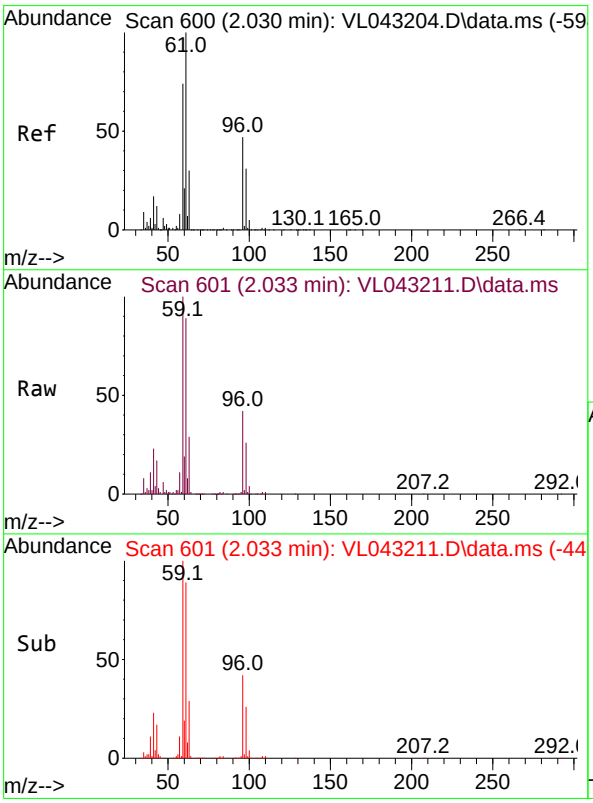
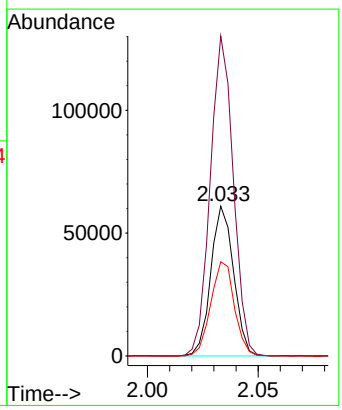
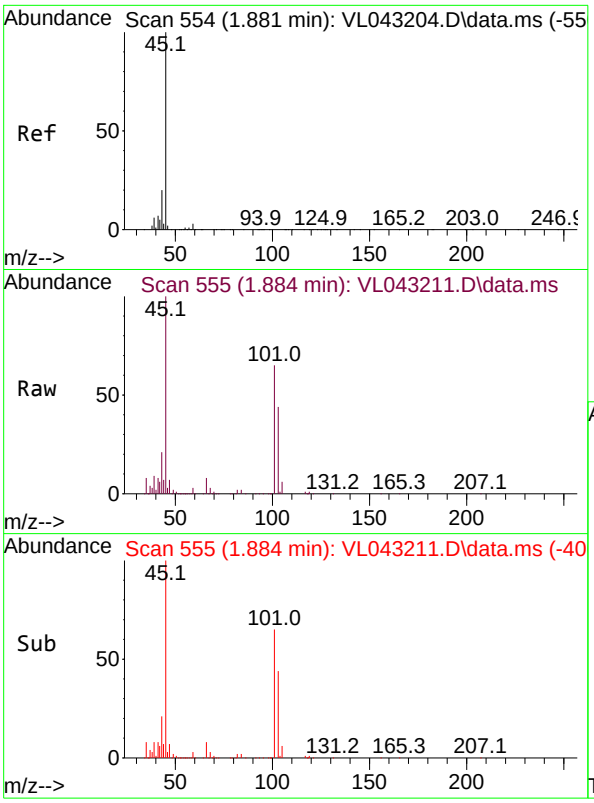


#18
1,1-Dichloroethene
Concen: 9.017 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 96 Resp: 43833

Ion	Ratio	Lower	Upper
96	100		
61	214.0	170.6	255.8
98	62.9	52.2	78.4

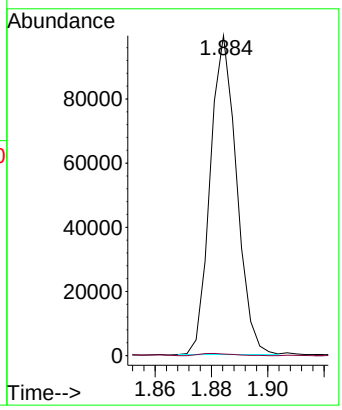




#19
Isopropyl Alcohol
Concen: 8.431 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 45 Resp: 6477

Ion	Ratio	Lower	Upper
45	100		
58	40.8	31.3	46.9



Instrument :
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ClientSampleId :
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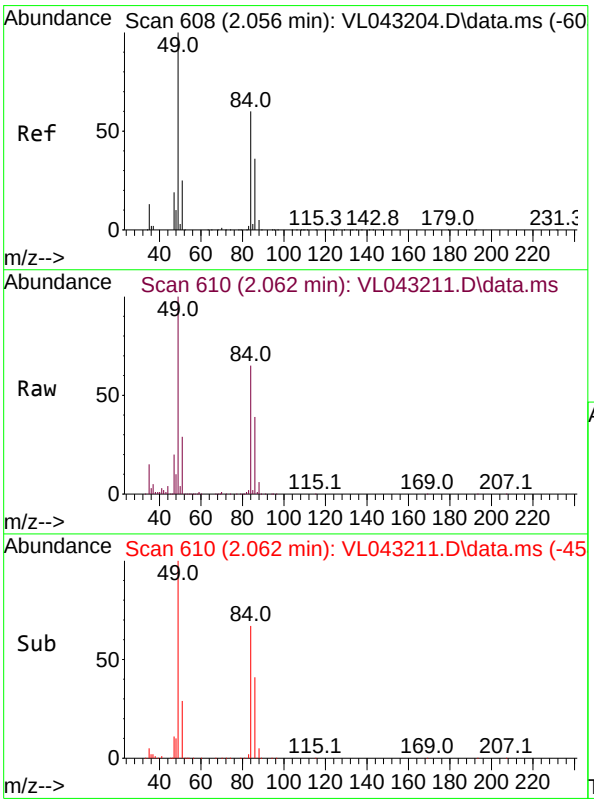
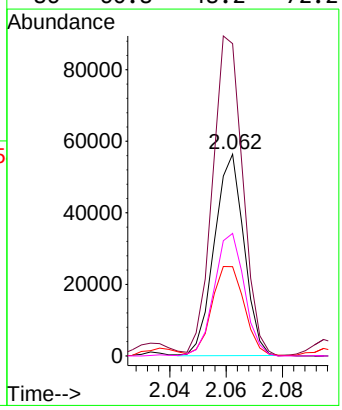
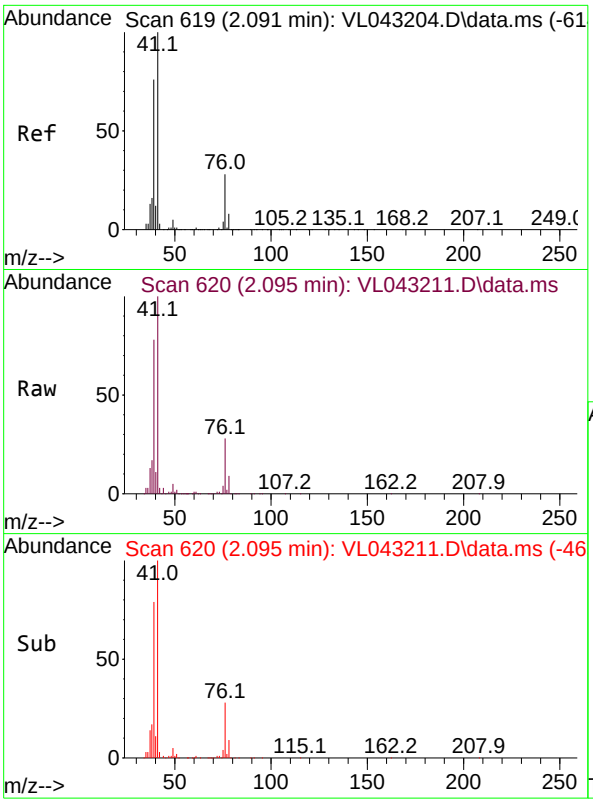


#20
Methylene Chloride
Concen: 10.323 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 84 Resp: 41254

Ion	Ratio	Lower	Upper
84	100		
49	155.1	132.9	199.3
51	43.9	34.8	52.2
86	60.8	48.2	72.2

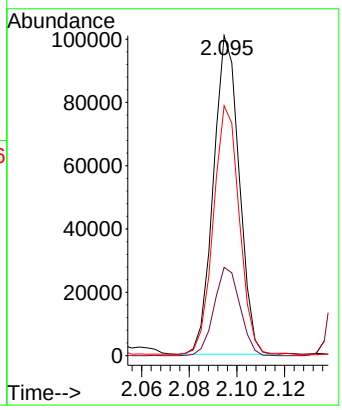




#21
Allyl Chloride
Concen: 8.256 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 41 Resp: 7551

Ion	Ratio	Lower	Upper
41	100		
76	27.9	22.1	33.1
39	79.3	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
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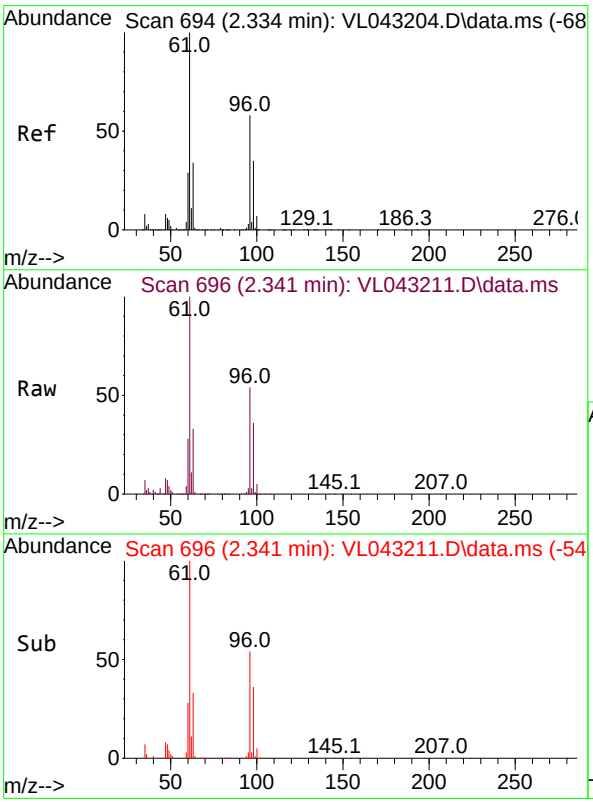
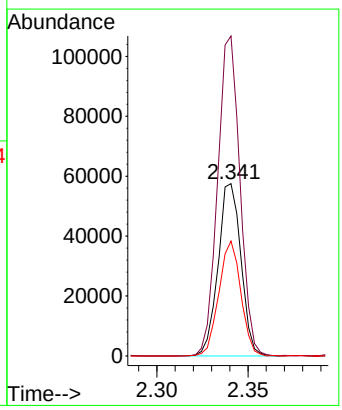
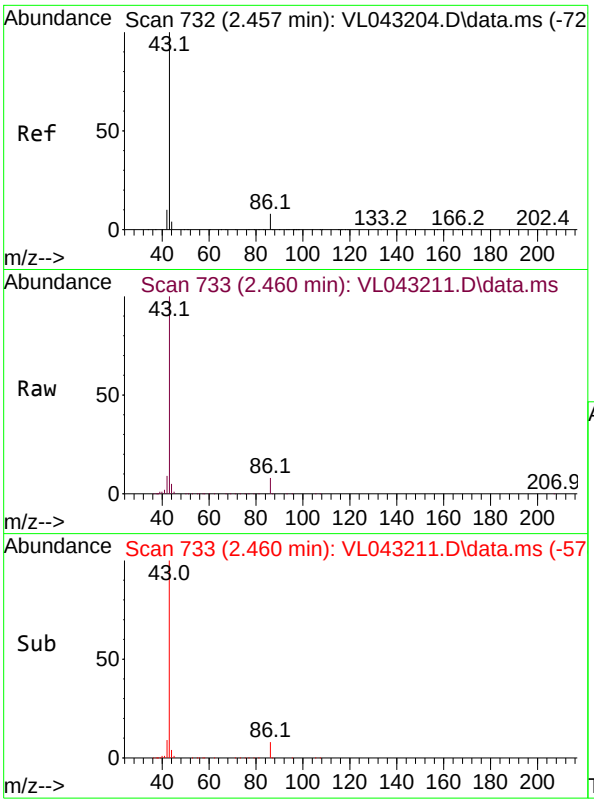


#22
trans-1,2-Dichloroethene
Concen: 9.041 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 96 Resp: 50228

Ion	Ratio	Lower	Upper
96	100		
61	185.7	139.0	208.6
98	66.6	49.4	74.2

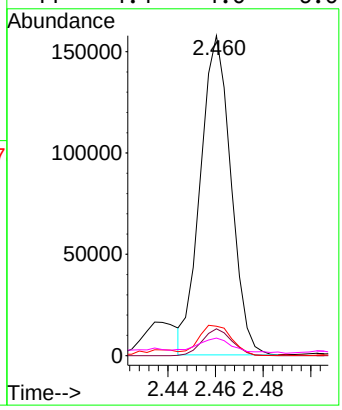




#23
Vinyl Acetate
Concen: 8.539 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 14015

Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.2	9.2
42	9.1	8.0	12.0
44	4.4	4.0	6.0



Instrument :
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ClientSampleId :
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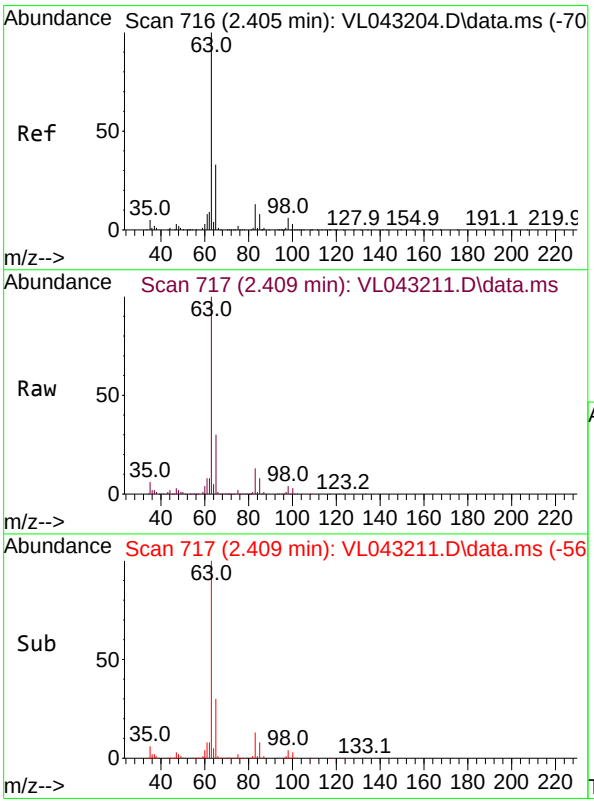
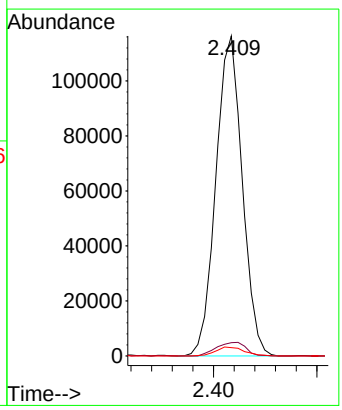
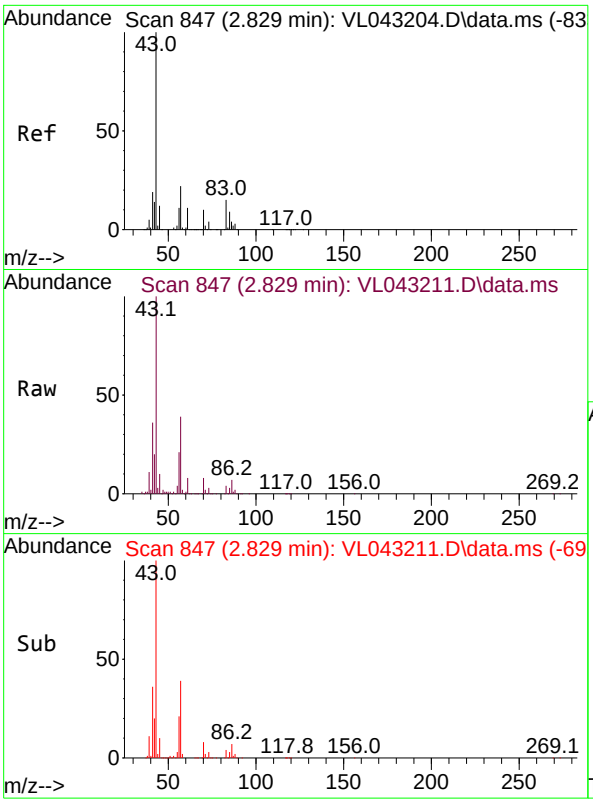


#24
1,1-Dichloroethane
Concen: 9.622 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 63 Resp: 103187

Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.8	8.4
100	2.6	1.3	3.9

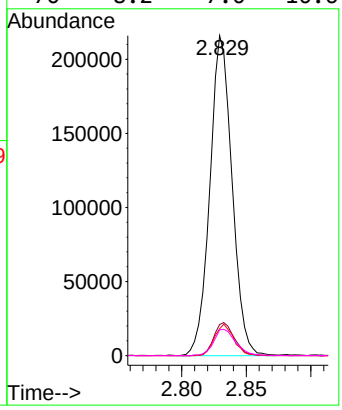




#25
Ethyl Acetate
Concen: 8.820 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 25860

Ion	Ratio	Lower	Upper
43	100		
45	9.6	8.1	12.1
61	8.5	7.0	10.4
70	8.2	7.0	10.6



Instrument :
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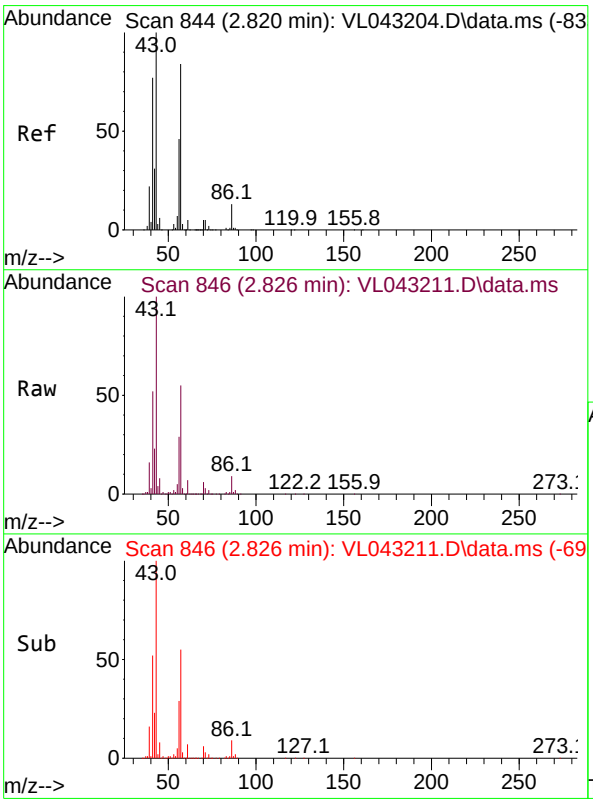
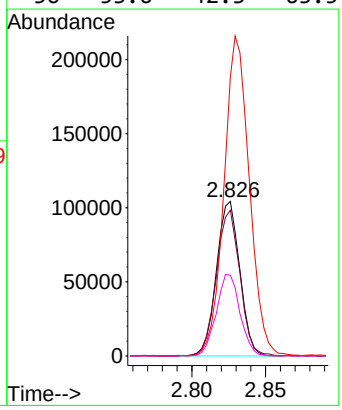
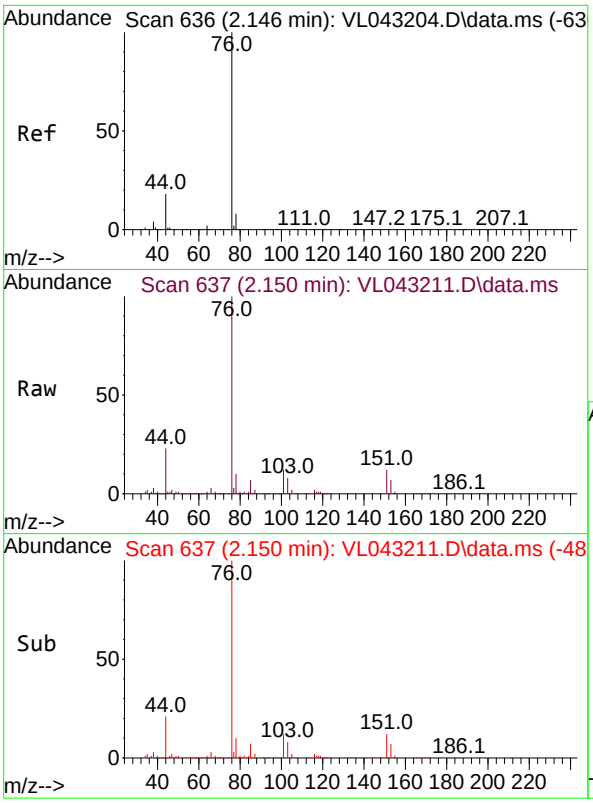


#26
Hexane
Concen: 8.892 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 57 Resp: 114312

Ion	Ratio	Lower	Upper
57	100		
41	96.0	74.6	111.8
43	226.4	179.0	268.4
56	53.6	42.3	63.5

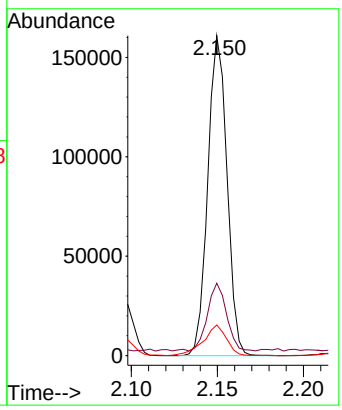




#27
Carbon Disulfide
Concen: 9.528 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 76 Resp: 12504

Ion	Ratio	Lower	Upper
76	100		
44	21.9	16.1	24.1
78	11.6	9.6	14.4



Instrument :
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ClientSampleId :
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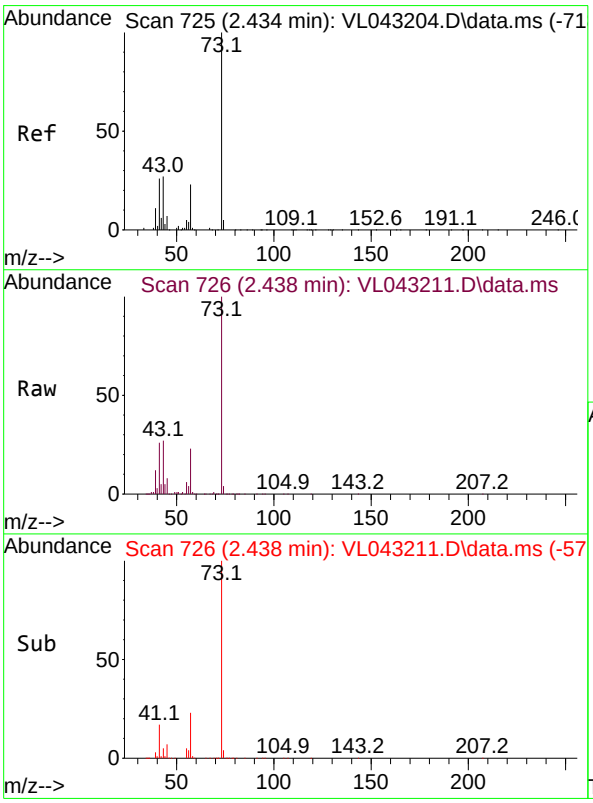
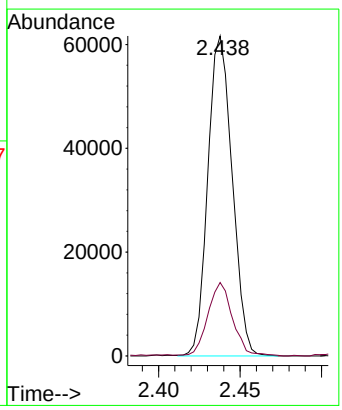
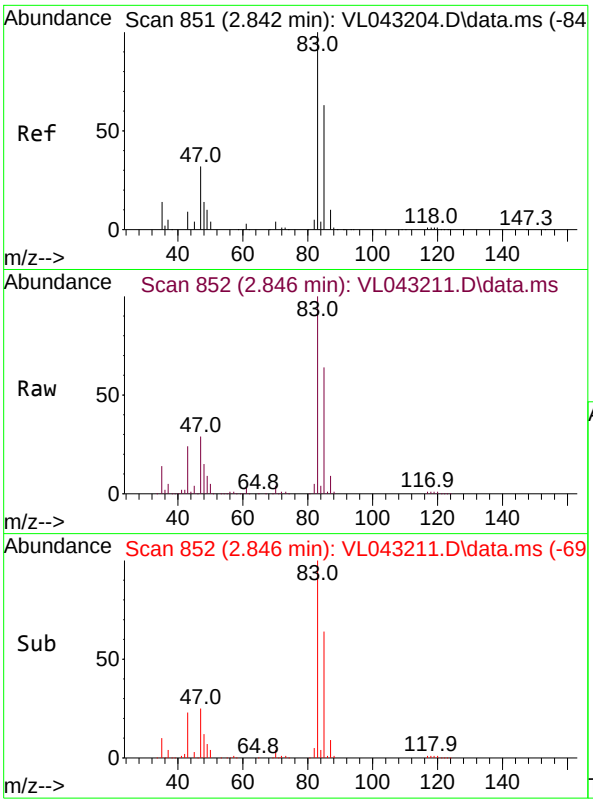


#28
Methyl tert-Butyl Ether
Concen: 10.171 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 73 Resp: 64183

Ion	Ratio	Lower	Upper
73	100		
57	23.6	19.8	29.8

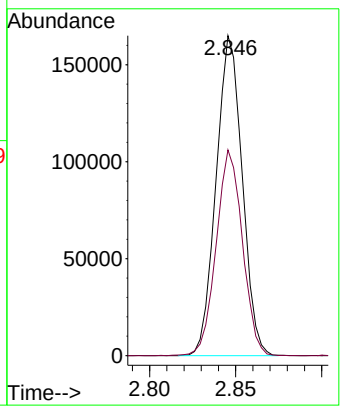




#29
Chloroform
Concen: 9.521 ppbv
RT: 2.846 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 83 Resp: 17397

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.5	75.7



Instrument :
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ClientSampleId :
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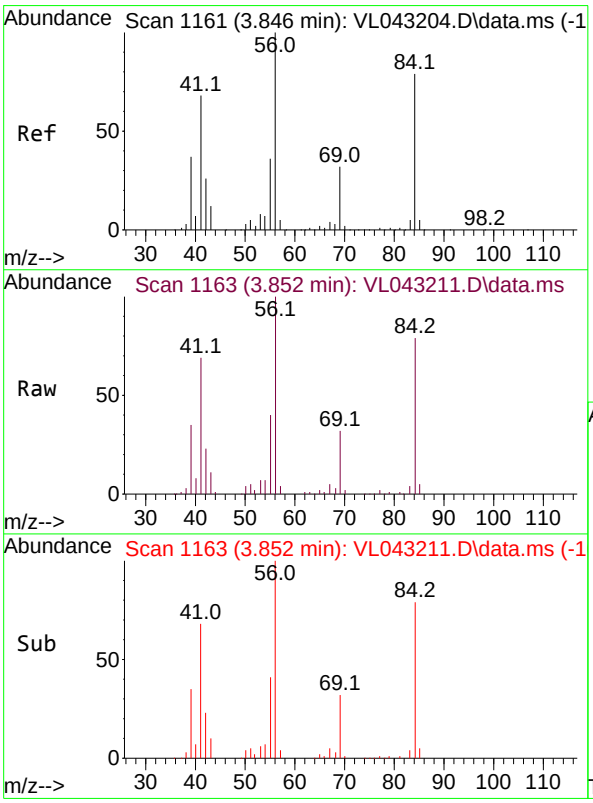
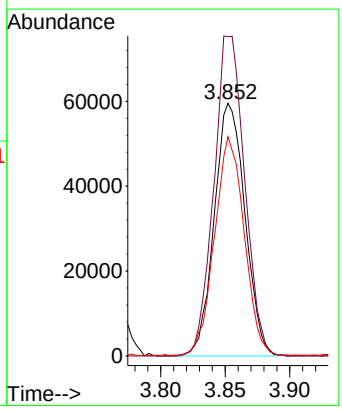
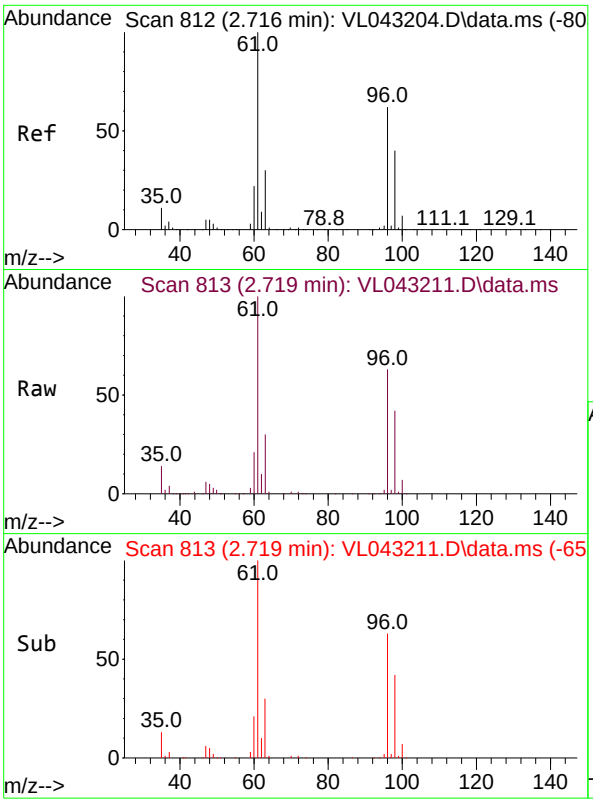


#30
Cyclohexane
Concen: 9.148 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 84 Resp: 98598

Ion	Ratio	Lower	Upper
84	100		
56	127.4	104.7	157.1
41	84.5	69.0	103.6

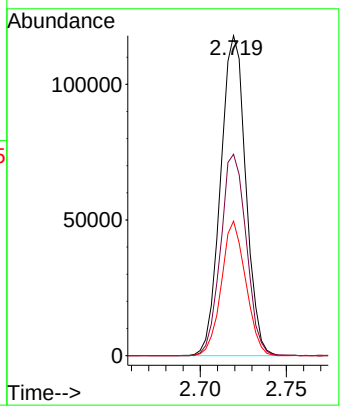




#31
cis-1,2-Dichloroethene
Concen: 9.379 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 61 Resp: 11984

Ion	Ratio	Lower	Upper
61	100		
96	62.9	49.3	73.9
98	42.0	32.1	48.1



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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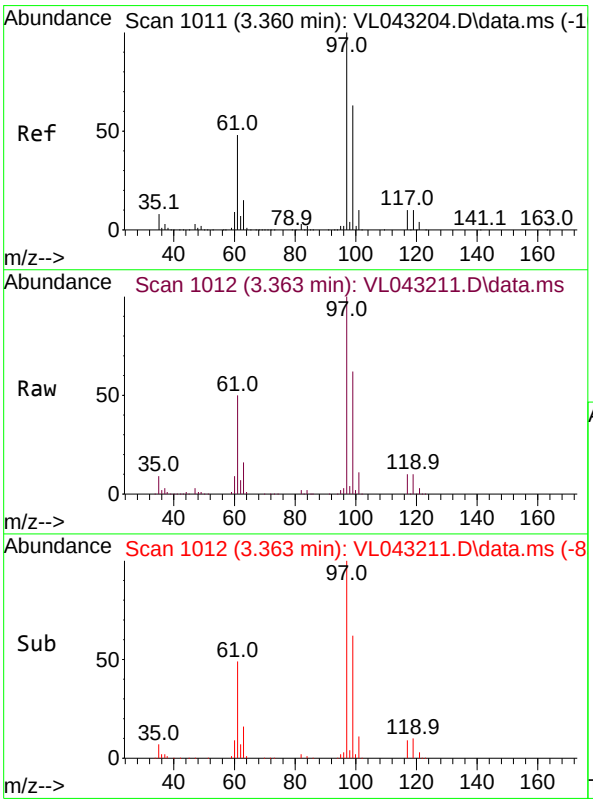
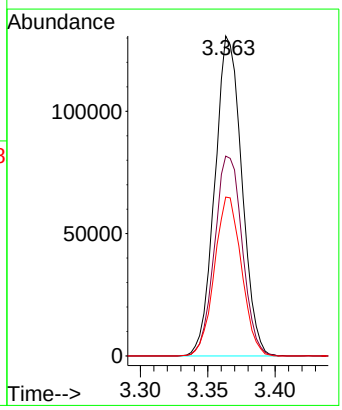
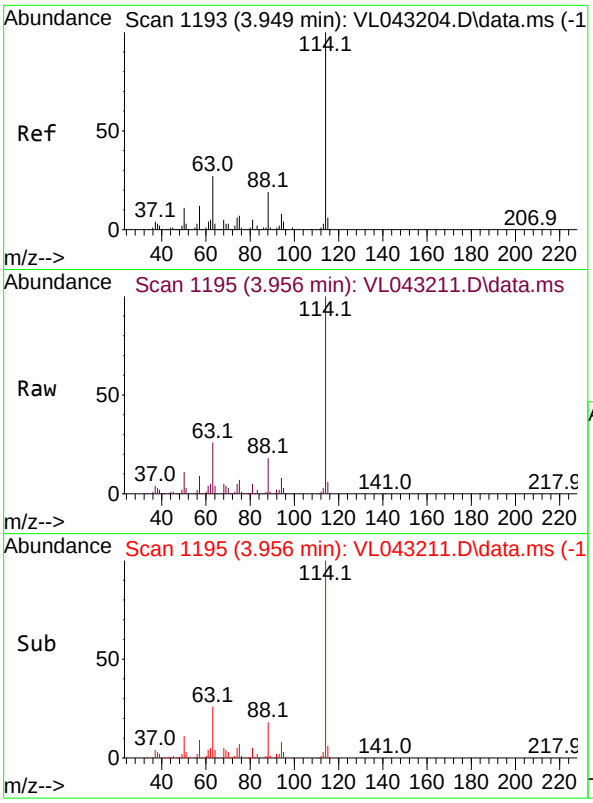


#32
1,1,1-Trichloroethane
Concen: 9.358 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 97 Resp: 182262

Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.3	75.5
61	49.9	38.9	58.3

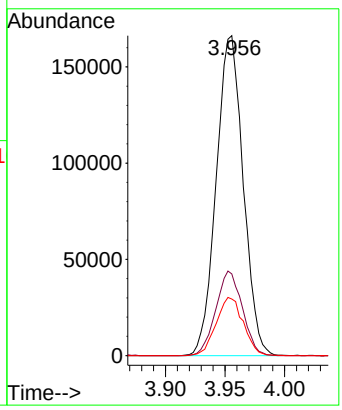




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:114 Resp: 261914

Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.0	31.6
88	18.3	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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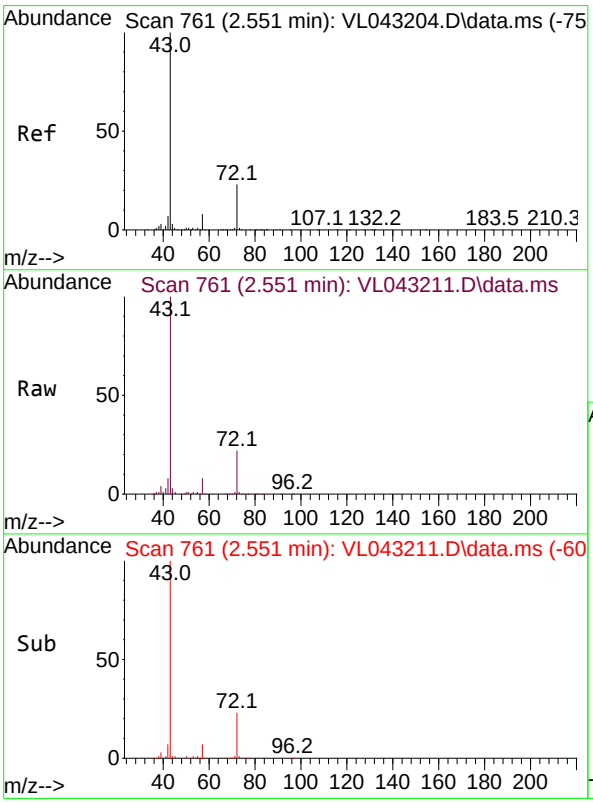
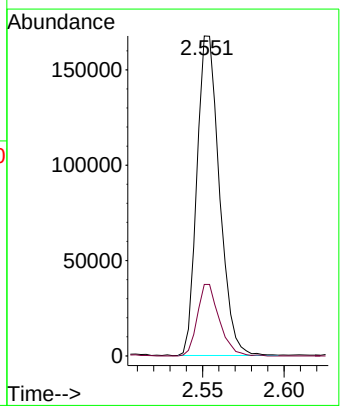
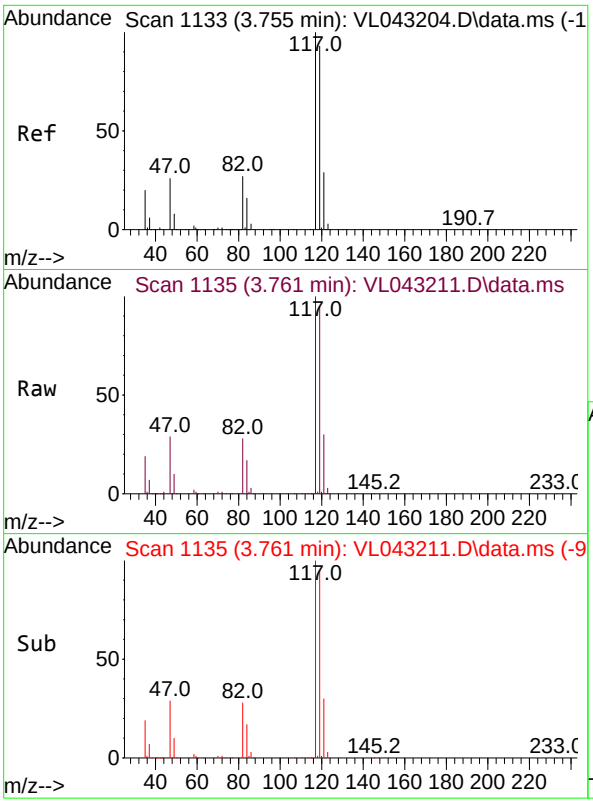


#34
2-Butanone
Concen: 8.707 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 160977

Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.1	27.1

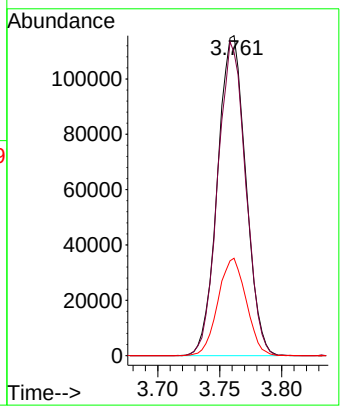




#35
Carbon Tetrachloride
Concen: 9.200 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:117 Resp: 18290

Ion	Ratio	Lower	Upper
117	100		
119	94.7	74.6	112.0
121	30.4	23.2	34.8



Instrument :
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ClientSampleId :
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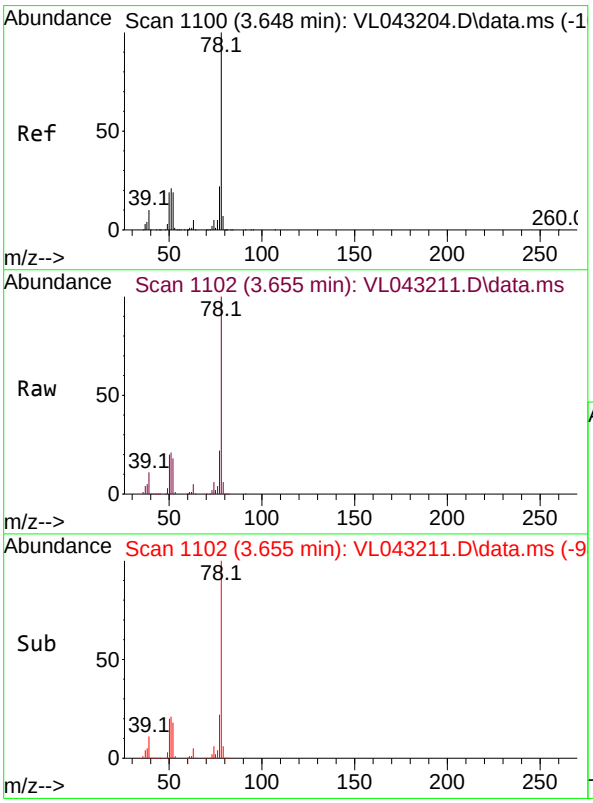
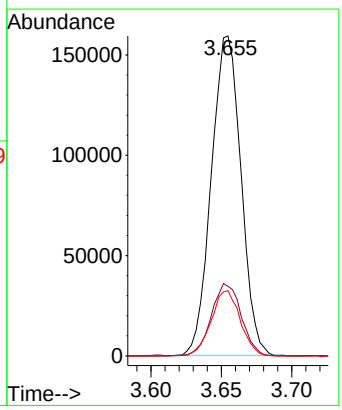
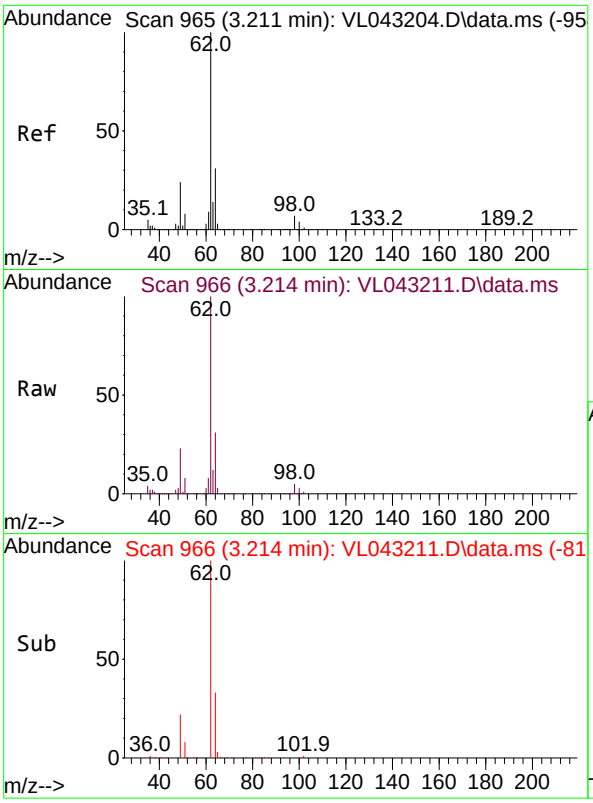


#36
Benzene
Concen: 9.293 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 78 Resp: 233094

Ion	Ratio	Lower	Upper
78	100		
77	21.8	17.5	26.3
50	20.4	15.5	23.3

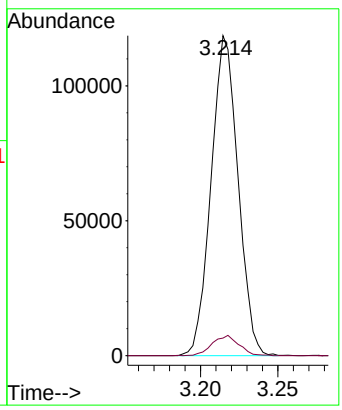




#37
1,2-Dichloroethane
Concen: 9.772 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 62 Resp: 14336

Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.5	8.3



Instrument :
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ClientSampleId :
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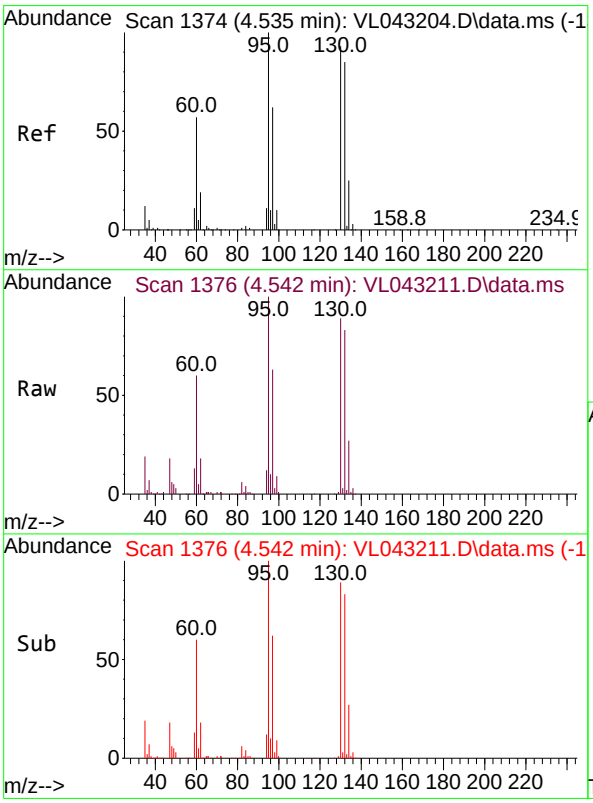
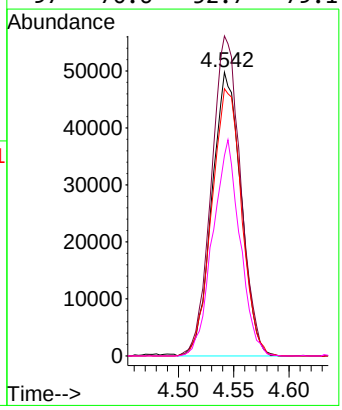
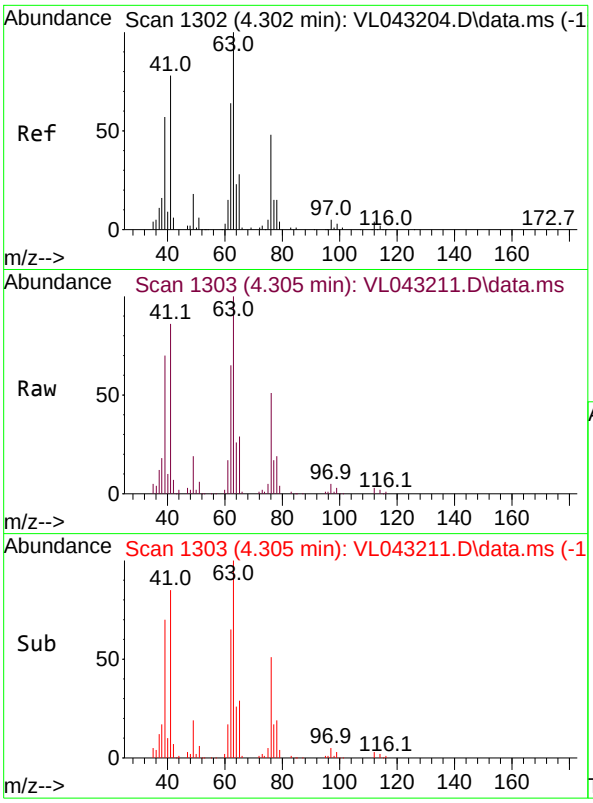


#38
Trichloroethene
Concen: 9.272 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:130 Resp: 90993

Ion	Ratio	Lower	Upper
130	100		
95	112.7	85.7	128.5
132	94.1	73.4	110.0
97	70.6	52.7	79.1

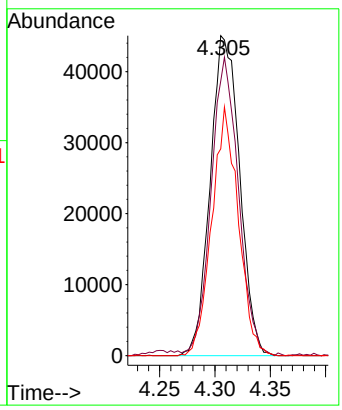




#39
1,2-Dichloropropane
Concen: 9.086 ppbv
RT: 4.305 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 63 Resp: 8341

Ion	Ratio	Lower	Upper
63	100		
41	85.0	62.6	93.8
62	64.6	51.0	76.6



Instrument :
MSVOA_L
ClientSampleId :
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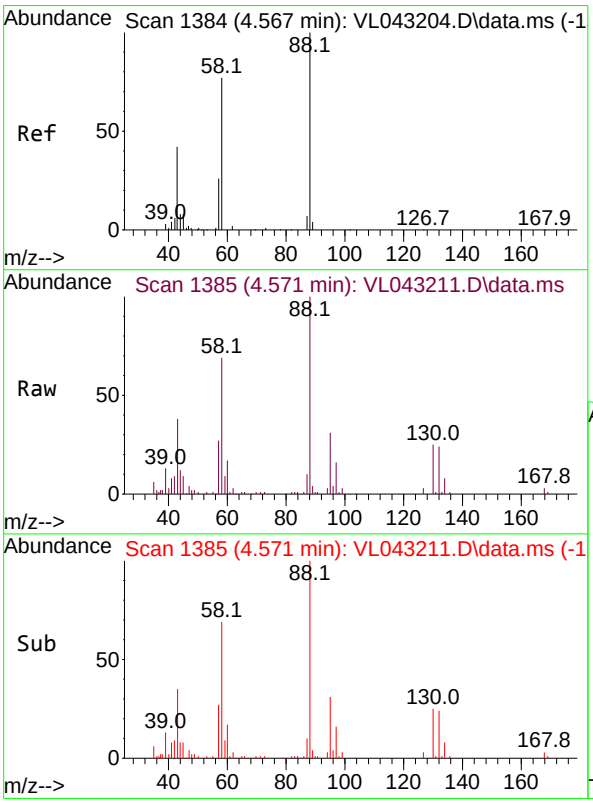
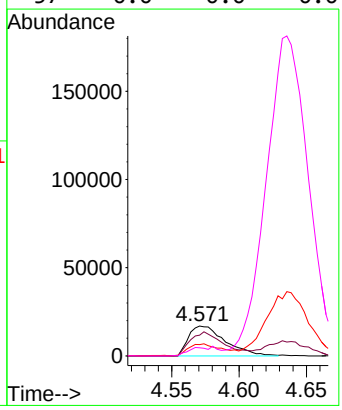
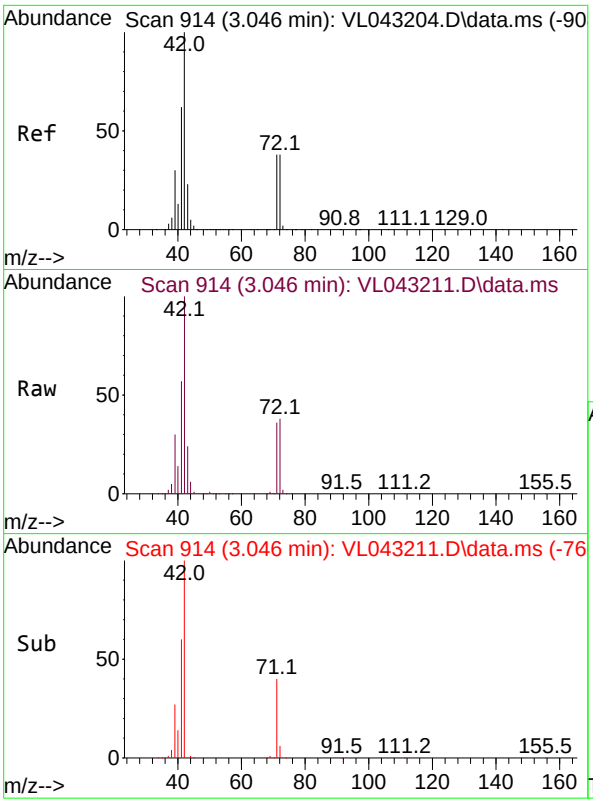


#40
1,4-Dioxane
Concen: 7.780 ppbv
RT: 4.571 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 88 Resp: 32109

Ion	Ratio	Lower	Upper
88	100		
58	74.8	63.0	94.6
43	37.4	32.5	48.7
57	0.0	0.0	0.0

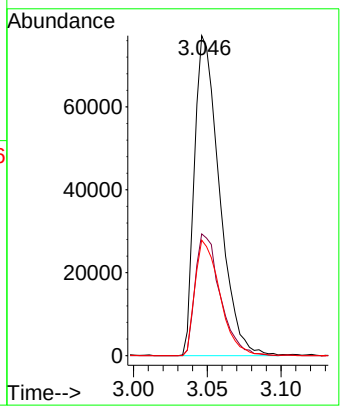




#41
Tetrahydrofuran
Concen: 8.891 ppbv
RT: 3.046 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 42 Resp: 90769

Ion	Ratio	Lower	Upper
42	100		
72	38.0	30.6	46.0
71	36.1	30.5	45.7



Instrument :
MSVOA_L
ClientSampleId :
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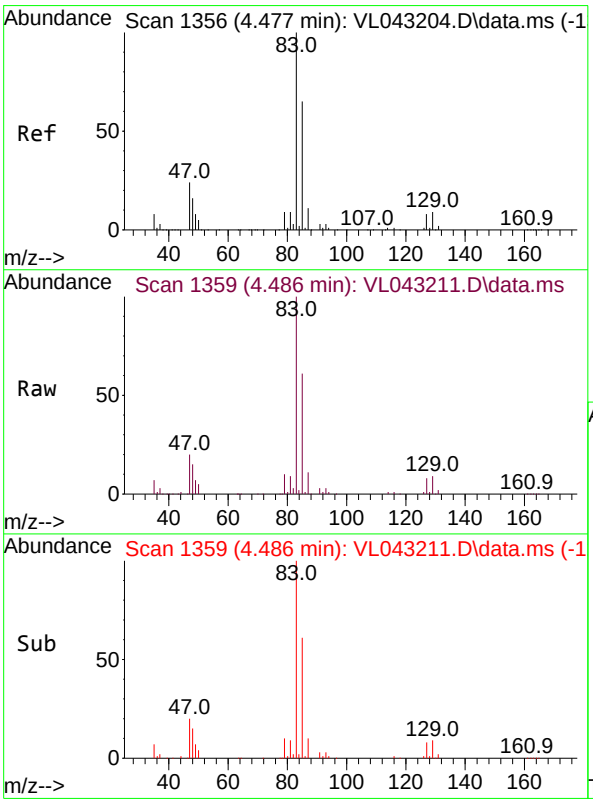
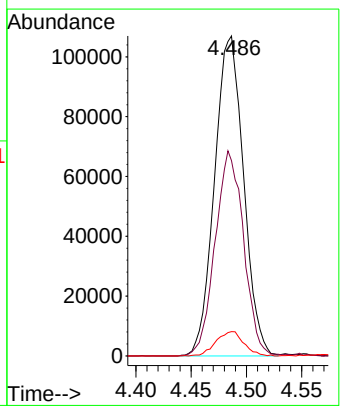
Supervised By :Mahesh Dadoda 11/19/2025

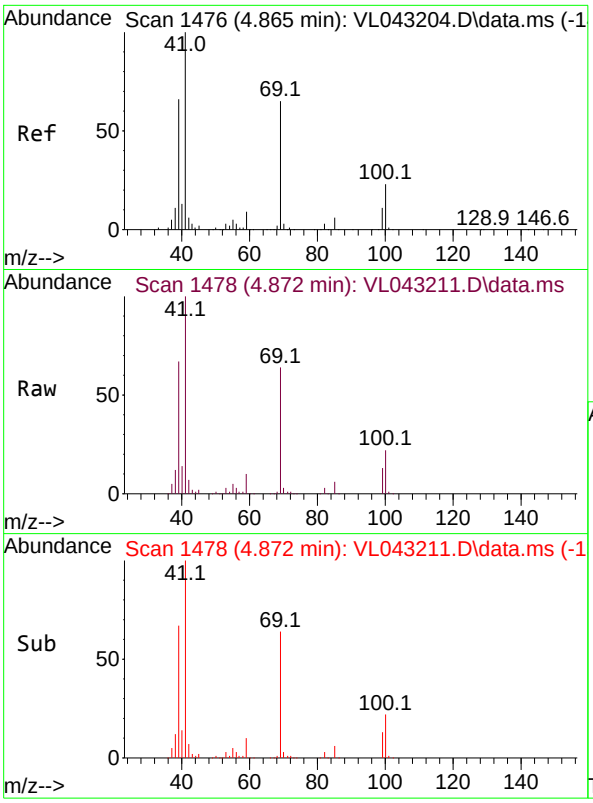


#42
Bromodichloromethane
Concen: 9.657 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 83 Resp: 195442

Ion	Ratio	Lower	Upper
83	100		
85	61.0	51.7	77.5
127	7.6	6.3	9.5

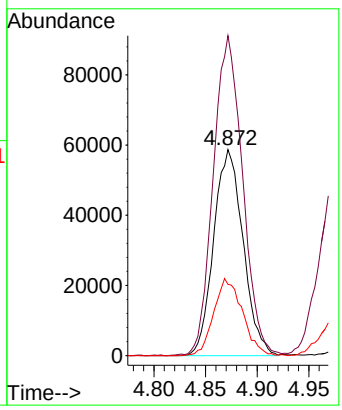




#43
Methyl Methacrylate
Concen: 8.737 ppbv
RT: 4.872 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 69 Resp: 11632

Ion	Ratio	Lower	Upper
69	100		
41	155.2	126.7	190.1
100	36.5	28.6	43.0



Instrument :
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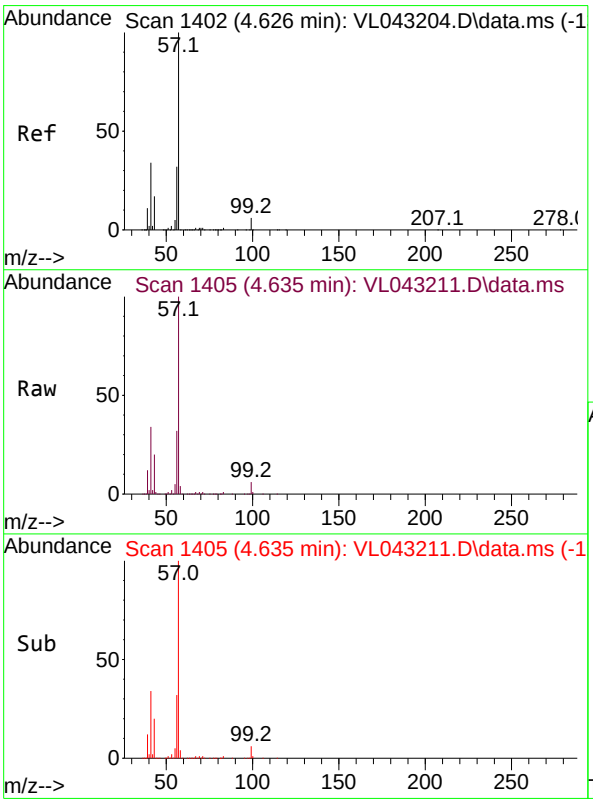
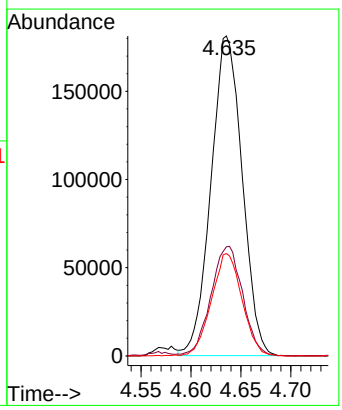
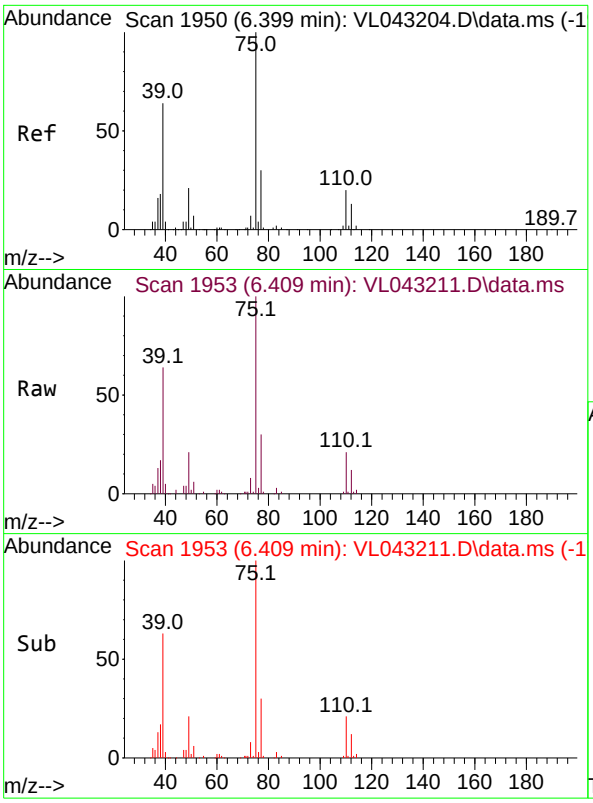


#44
2,2,4-Trimethylpentane
Concen: 9.133 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 57 Resp: 393438

Ion	Ratio	Lower	Upper
57	100		
41	35.8	28.0	42.0
56	31.5	25.6	38.4

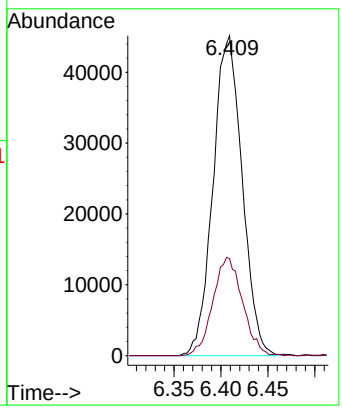




#45
t-1,3-Dichloropropene
Concen: 7.863 ppbv
RT: 6.409 min Scan# 19
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 75 Resp: 9758

Ion	Ratio	Lower	Upper
75	100		
77	30.3	24.3	36.5



Instrument :
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ClientSampleId :
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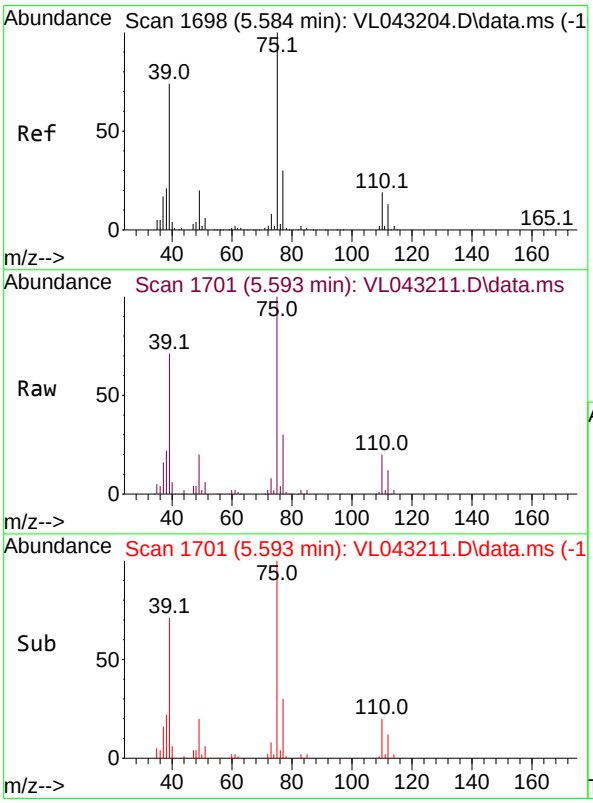
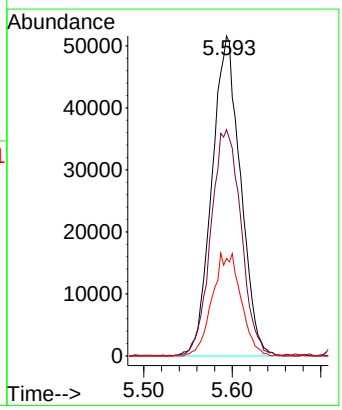
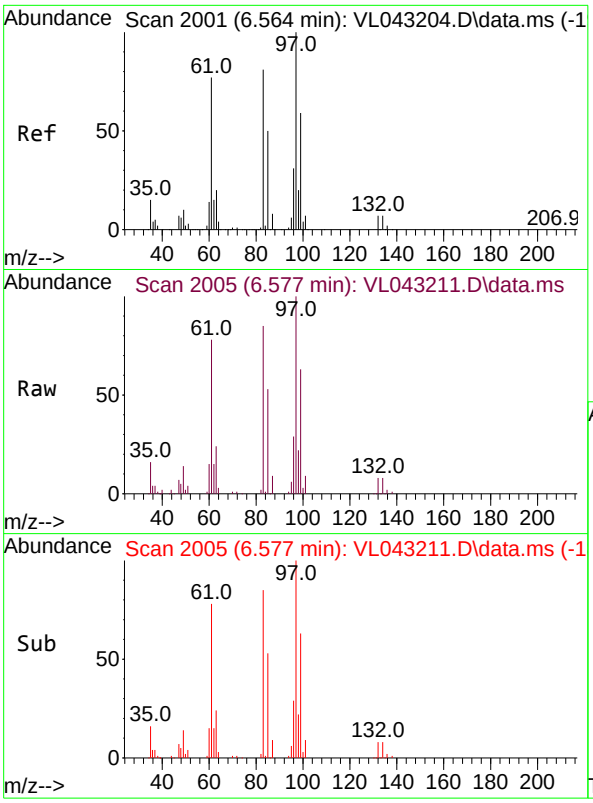


#46
cis-1,3-Dichloropropene
Concen: 7.924 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 75 Resp: 115476

Ion	Ratio	Lower	Upper
75	100		
39	70.4	59.1	88.7
77	30.4	24.2	36.2

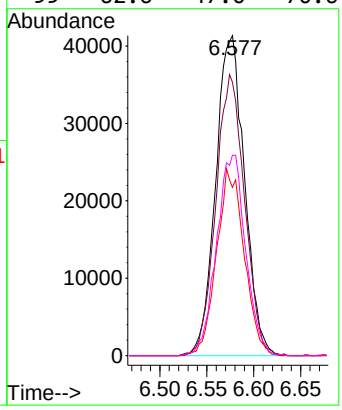




#47
1,1,2-Trichloroethane
Concen: 9.086 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 97 Resp: 8852

Ion	Ratio	Lower	Upper
97	100		
83	85.4	64.6	97.0
85	52.6	39.4	59.2
99	62.6	47.0	70.6



Instrument :
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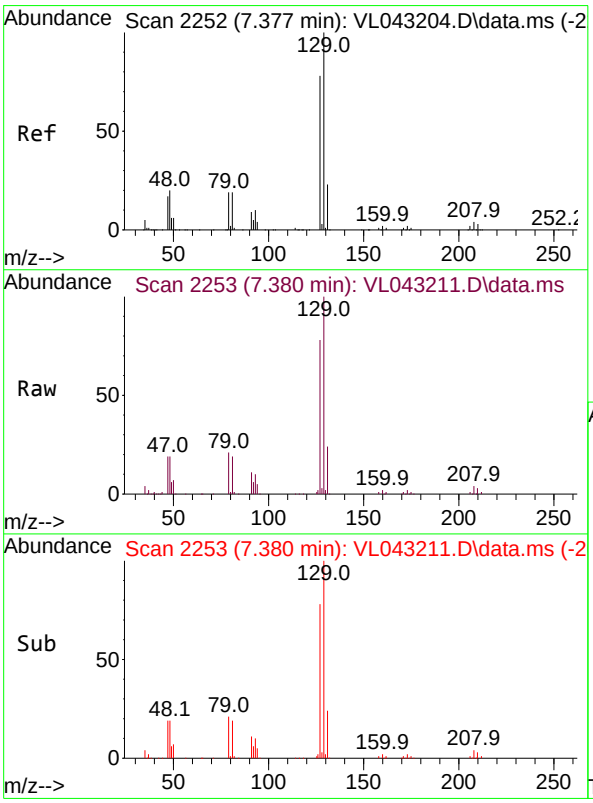
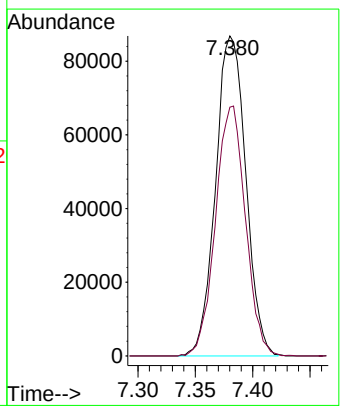
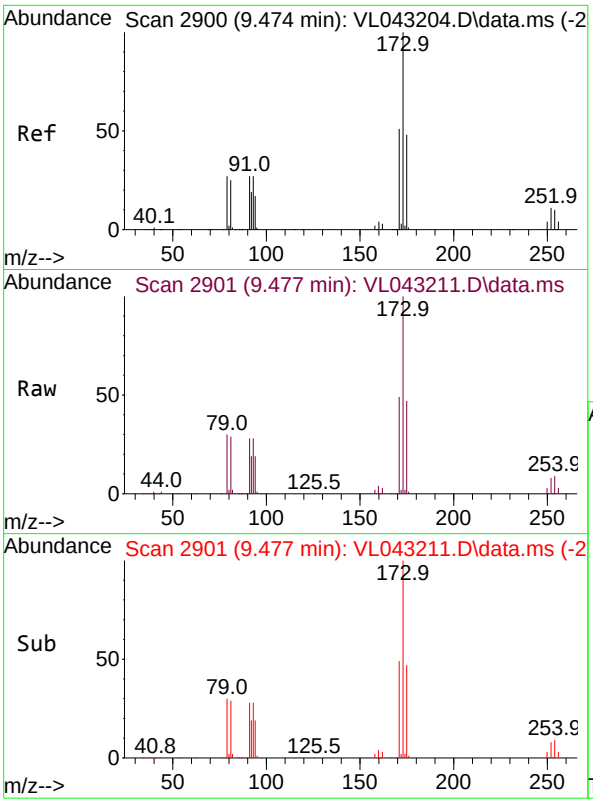


#48
Dibromochloromethane
Concen: 9.514 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:129 Resp: 159365

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.3	117.9

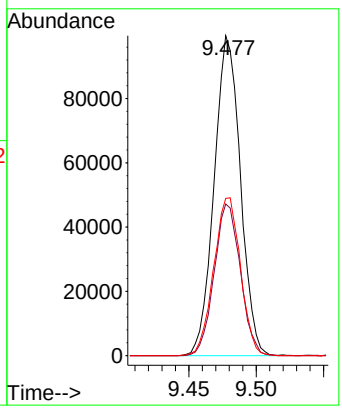




#49
Bromoform
Concen: 9.085 ppbv
RT: 9.477 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:173 Resp: 13479

Ion	Ratio	Lower	Upper
173	100		
175	47.2	38.6	58.0
171	50.2	40.6	61.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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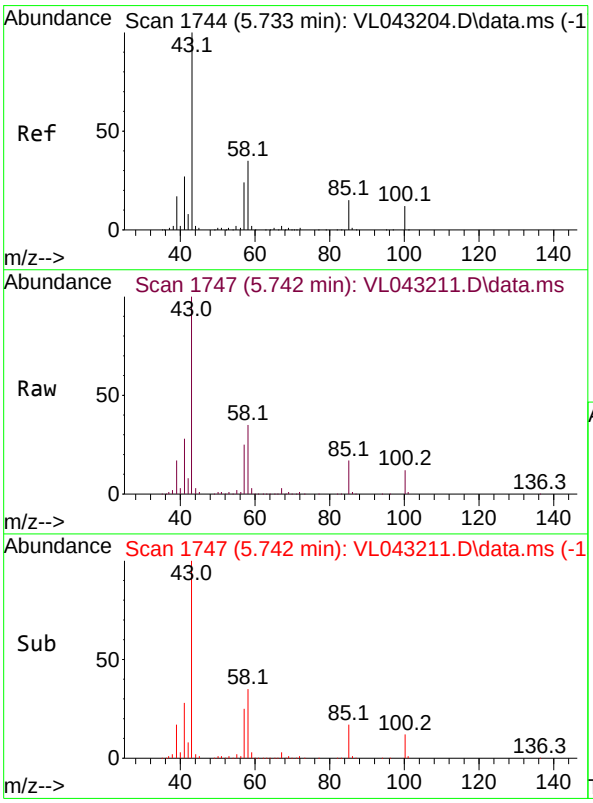
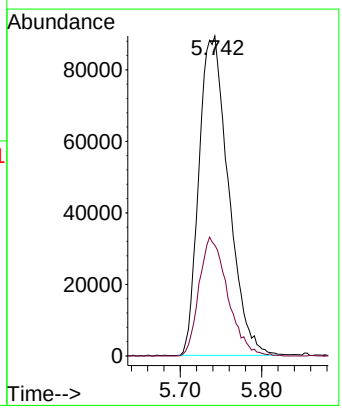
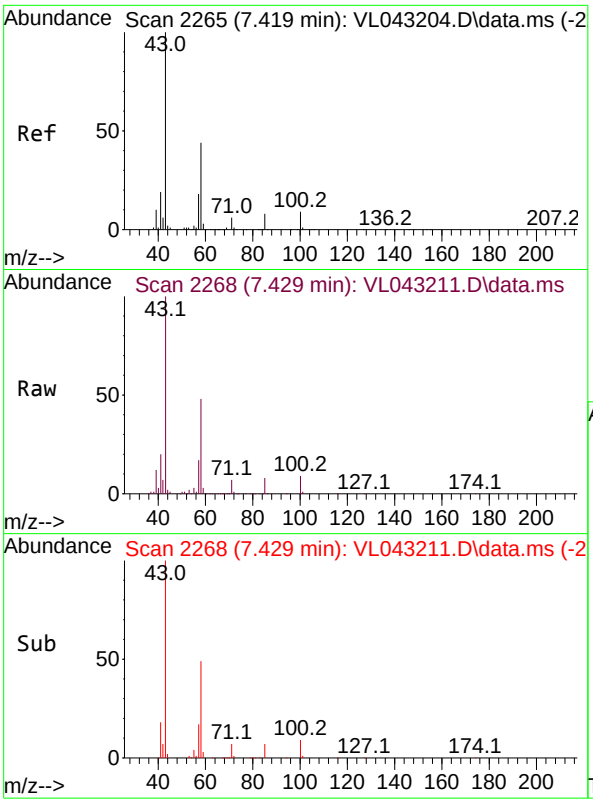


#50
4-Methyl-2-Pentanone
Concen: 8.631 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 224791

Ion	Ratio	Lower	Upper
43	100		
58	36.0	28.4	42.6

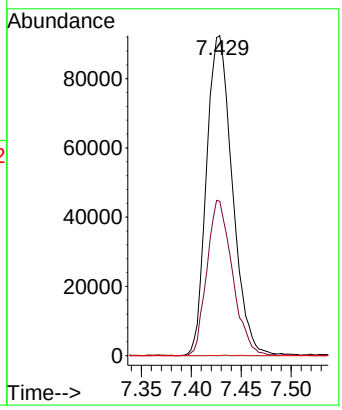




#51
2-Hexanone
Concen: 8.233 ppbv
RT: 7.429 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 16650

Ion	Ratio	Lower	Upper
43	100		
58	47.9	38.4	57.6
98	0.0	0.0	0.0#



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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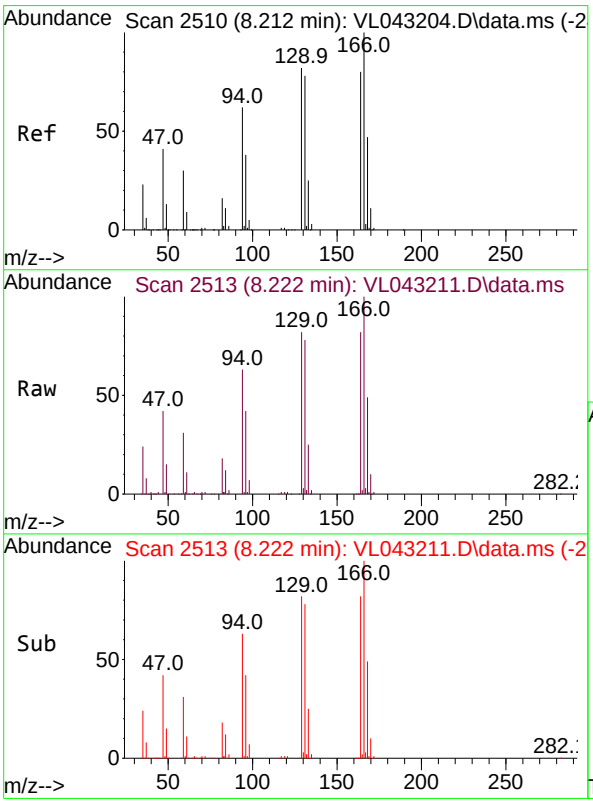
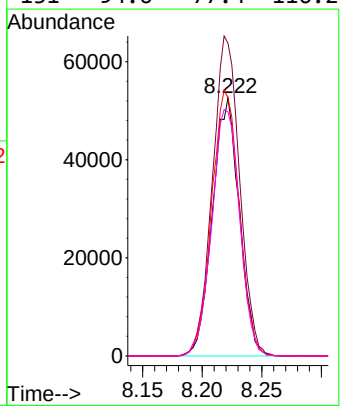
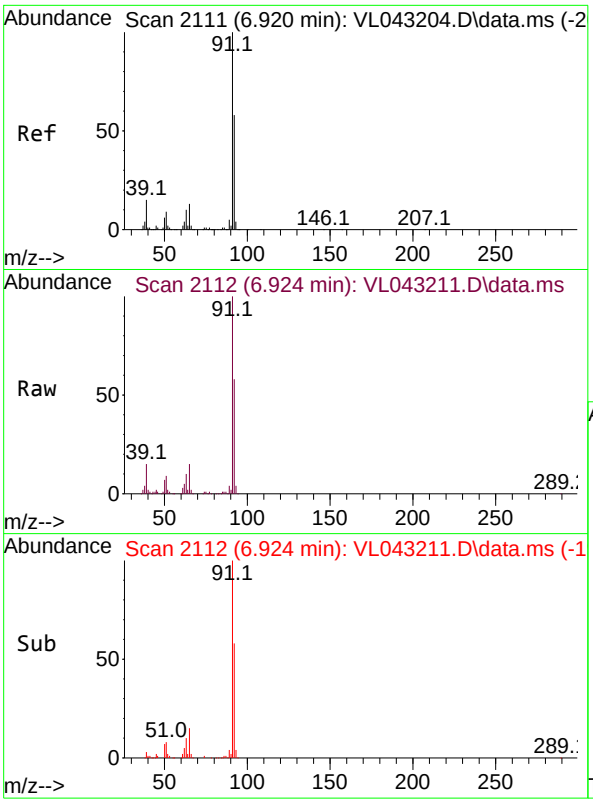


#52
Tetrachloroethene
Concen: 8.884 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:164 Resp: 82890

Ion	Ratio	Lower	Upper
164	100		
166	121.3	99.4	149.2
129	100.1	81.8	122.8
131	94.6	77.4	116.2

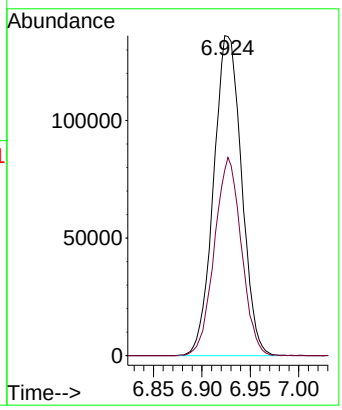




#53
Toluene
Concen: 9.197 ppbv
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 27317

Ion	Ratio	Lower	Upper
91	100		
92	59.8	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
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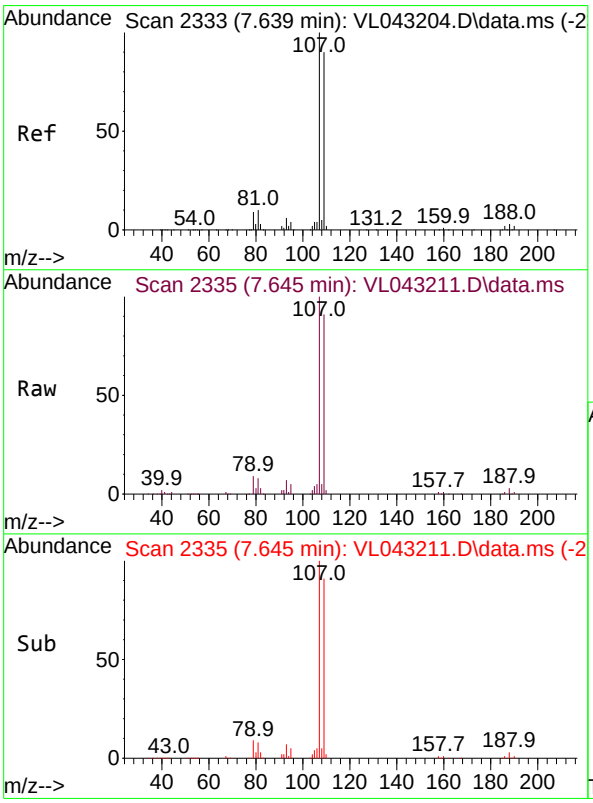
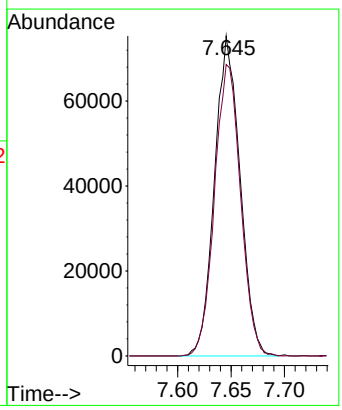
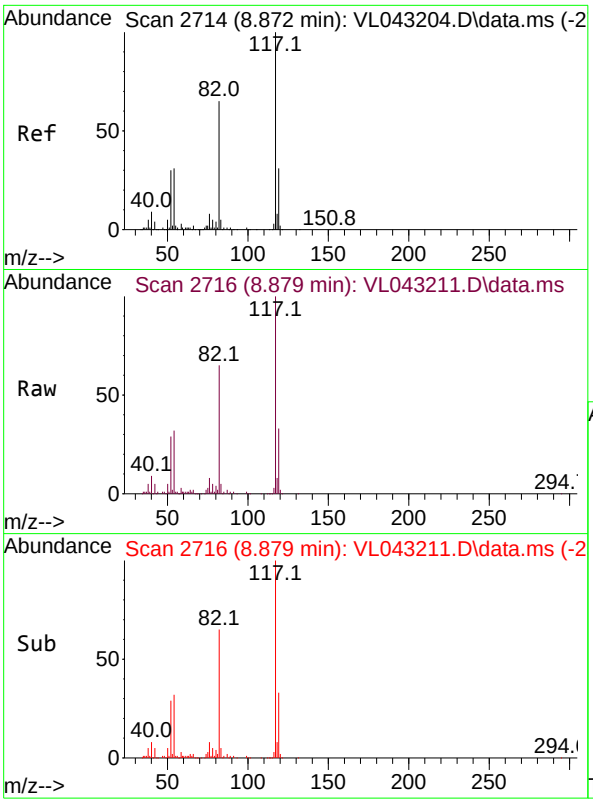


#54
1,2-Dibromoethane
Concen: 8.705 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:107 Resp: 124804

Ion	Ratio	Lower	Upper
107	100		
109	91.1	72.1	108.1

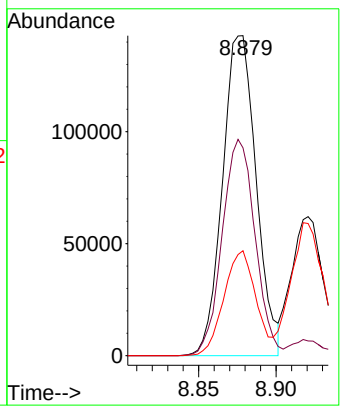




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:117 Resp: 216211

Ion	Ratio	Lower	Upper
117	100		
82	70.6	56.1	84.1
119	32.3	25.0	37.6



Instrument :
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ClientSampleId :
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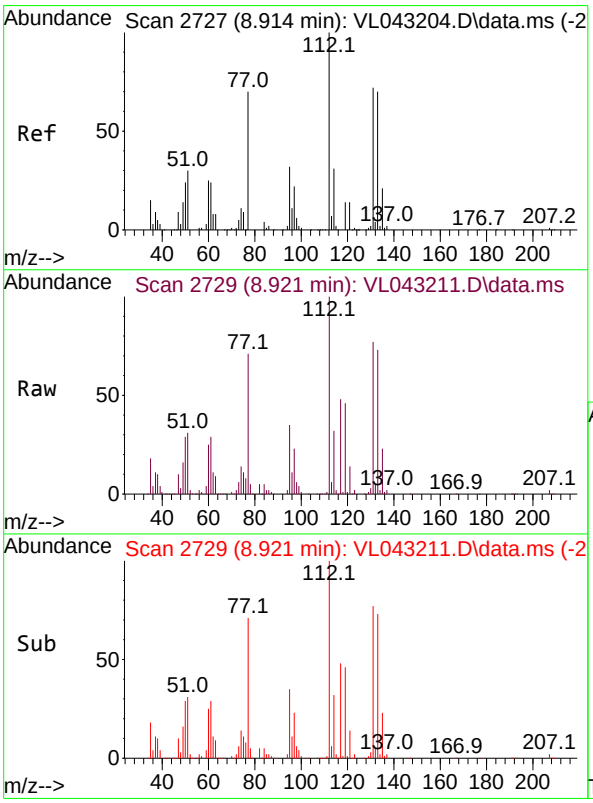
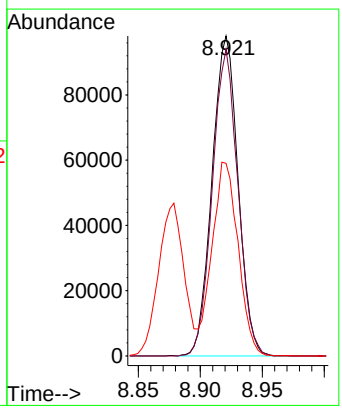
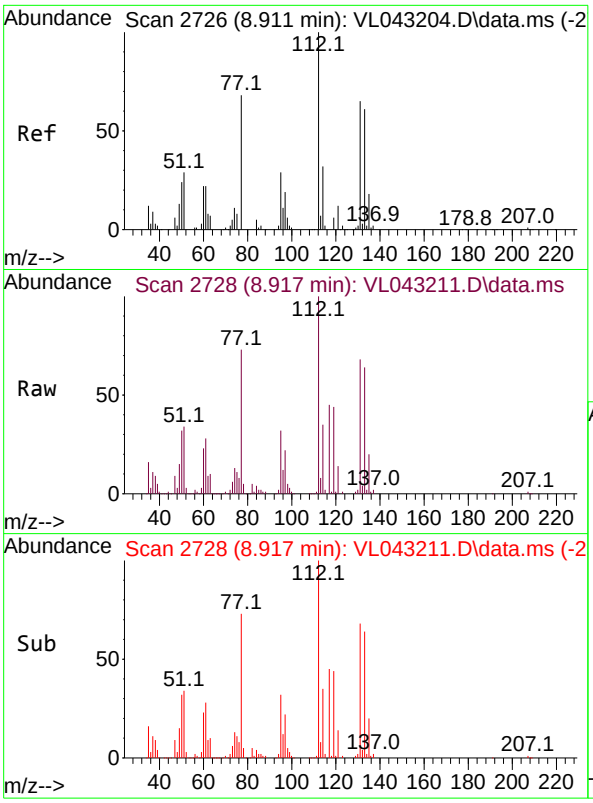


#56
1,1,1,2-Tetrachloroethane
Concen: 8.969 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:131 Resp: 142512

Ion	Ratio	Lower	Upper
131	100		
133	94.3	77.4	116.2
119	61.9	49.1	73.7

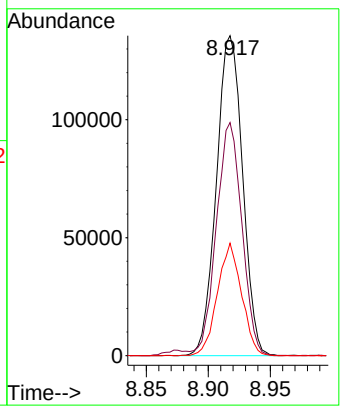




#57
Chlorobenzene
Concen: 8.981 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:112 Resp: 19937

Ion	Ratio	Lower	Upper
112	100		
77	72.7	55.5	83.3
114	35.1	29.1	35.5



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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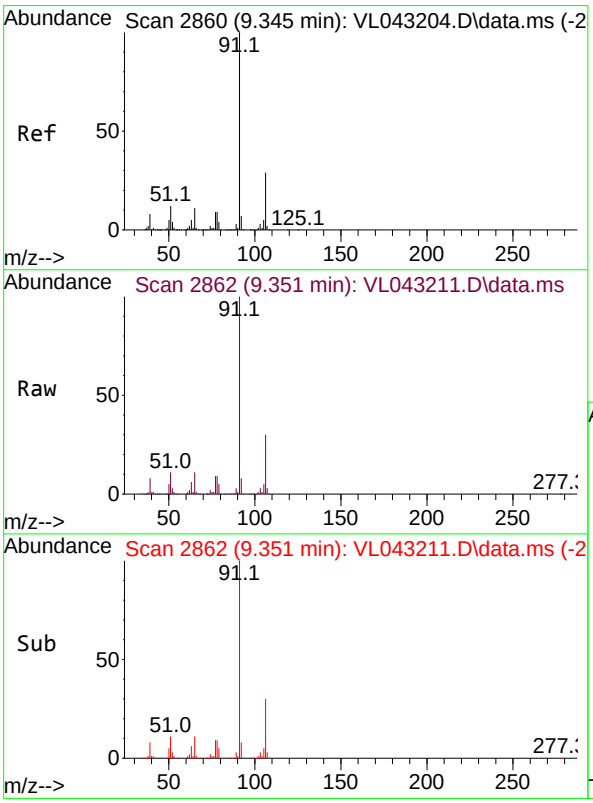
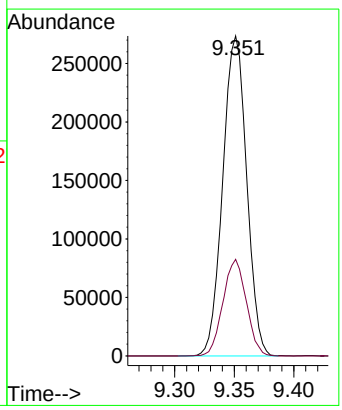
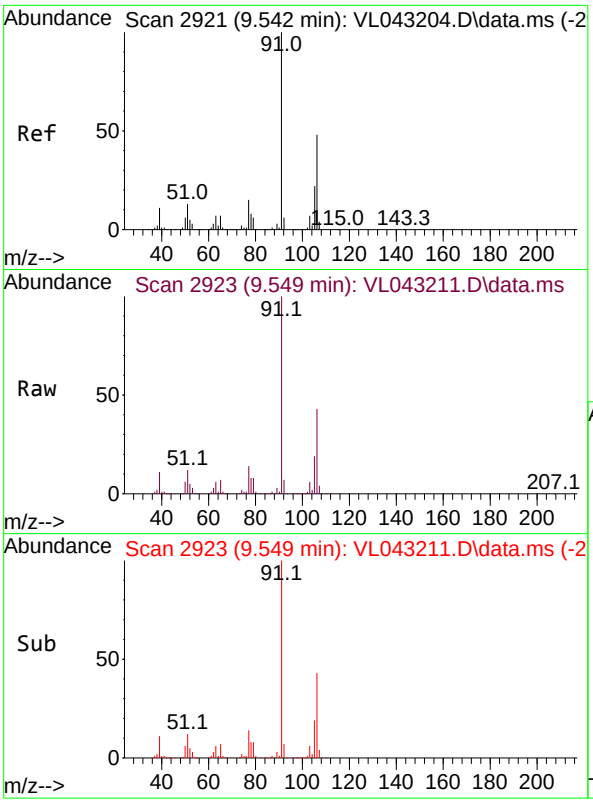


#58
Ethyl Benzene
Concen: 9.167 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 381474

Ion	Ratio	Lower	Upper
91	100		
106	30.2	22.8	34.2

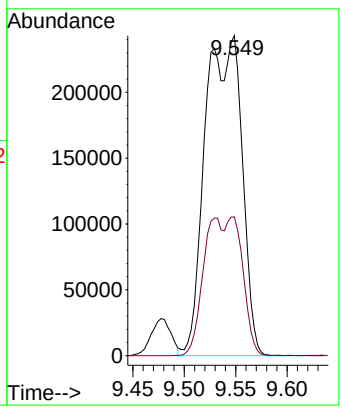




#59
m/p-Xylene
Concen: 18.108 ppbv m
RT: 9.549 min Scan# 29
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 60416

Ion	Ratio	Lower	Upper
91	100		
106	44.8	36.1	54.1



Instrument :
MSVOA_L
ClientSampleId :
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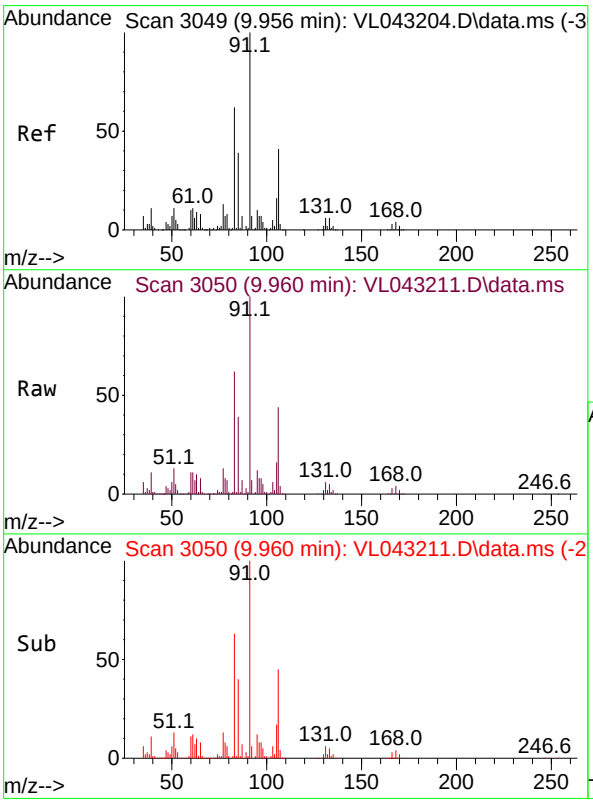
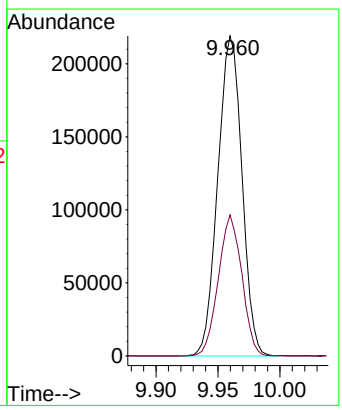
Supervised By :Mahesh Dadoda 11/19/2025

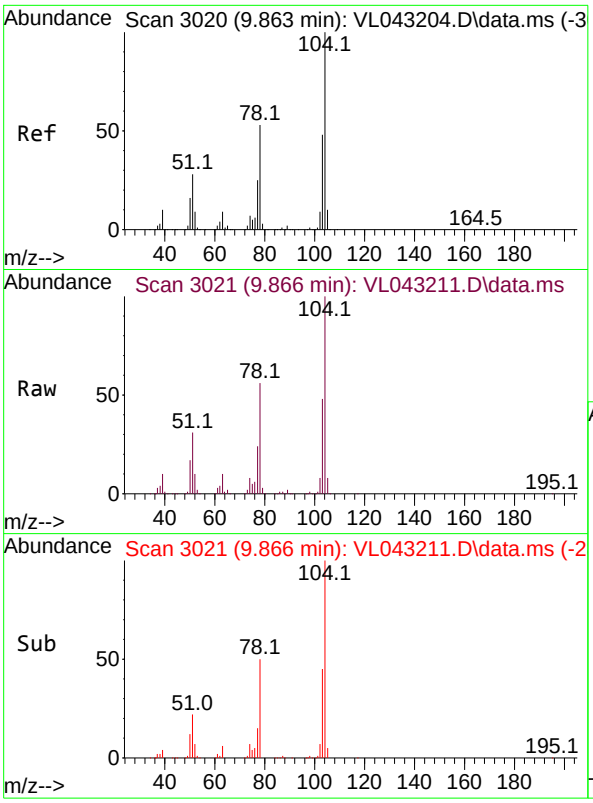


#60
o-Xylene
Concen: 8.876 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 295836

Ion	Ratio	Lower	Upper
91	100		
106	42.8	20.9	62.8

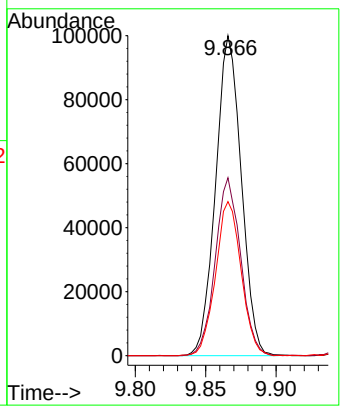




#61
Styrene
Concen: 8.714 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:104 Resp: 12711

Ion	Ratio	Lower	Upper
104	100		
78	54.7	42.1	63.1
103	48.0	37.2	55.8



Instrument :
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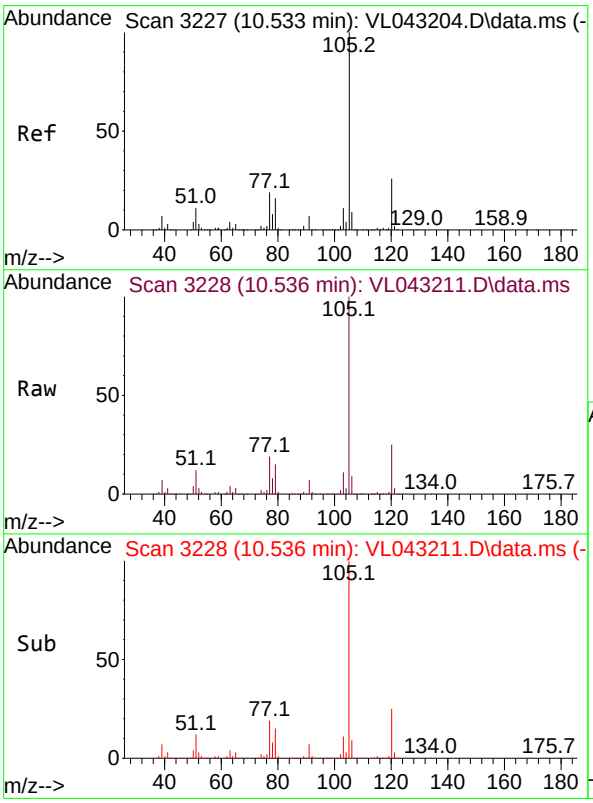
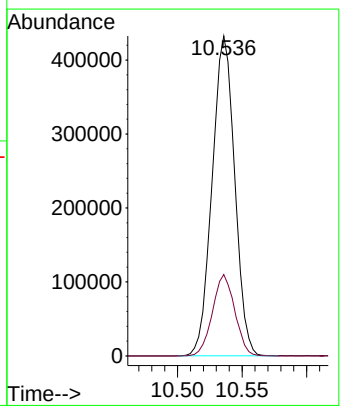
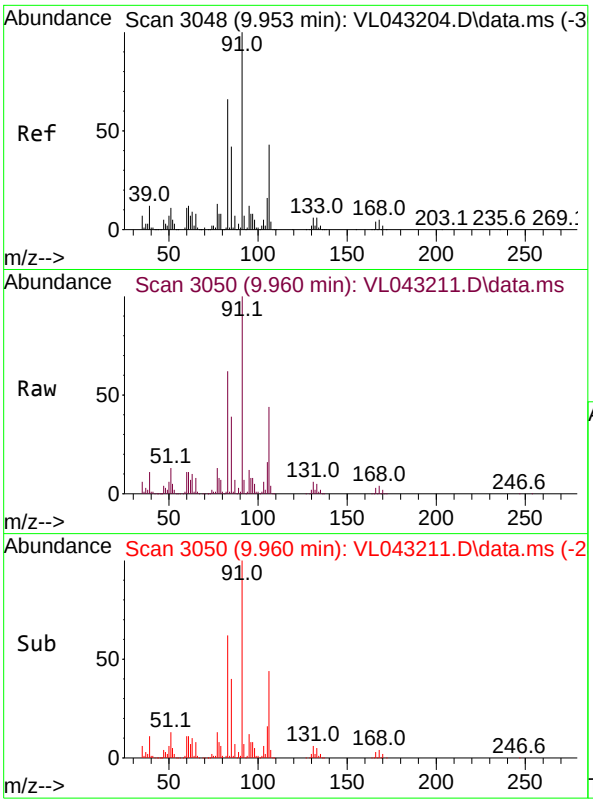


#62
Isopropylbenzene
Concen: 8.816 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 525717

Ion	Ratio	Lower	Upper
105	100		
120	25.1	19.8	29.8

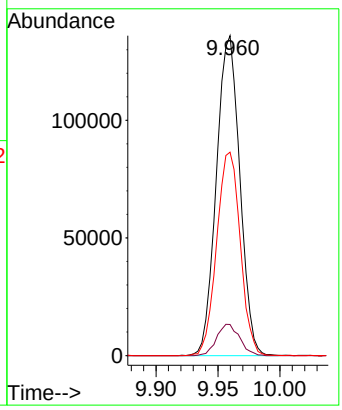




#63
1,1,2,2-Tetrachloroethane
Concen: 8.421 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 83 Resp: 17859

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	63.9	31.9	95.9



Instrument :
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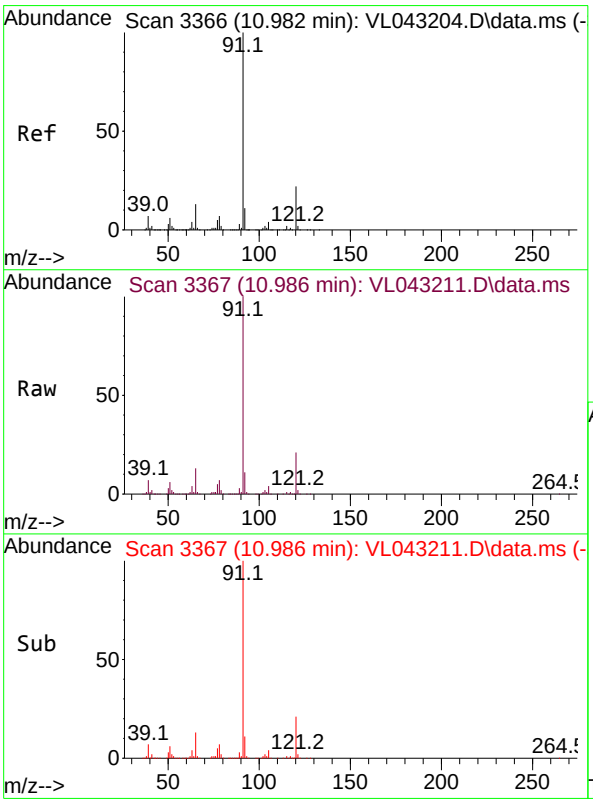
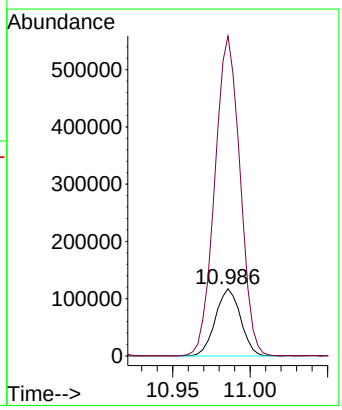
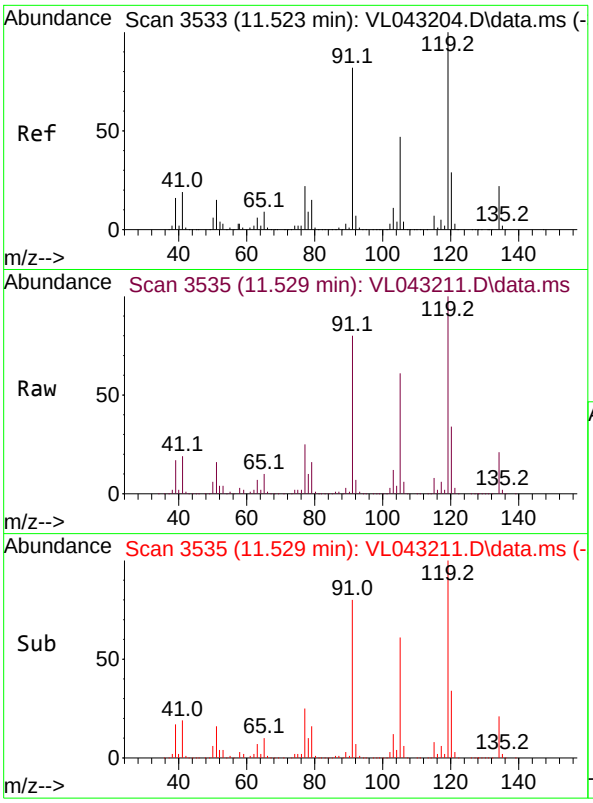


#64
n-propylbenzene
Concen: 8.591 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:120 Resp: 131634

Ion	Ratio	Lower	Upper
120	100		
91	482.2	377.1	565.7

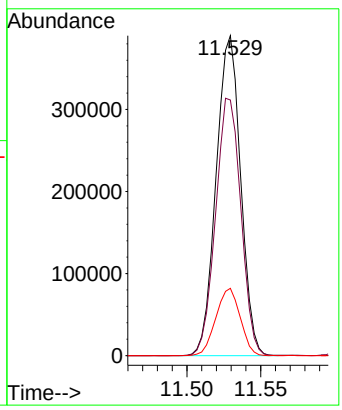




#65
tert-Butylbenzene
Concen: 8.465 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:119 Resp: 450819

Ion	Ratio	Lower	Upper
119	100		
91	83.0	65.3	97.9
134	20.8	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
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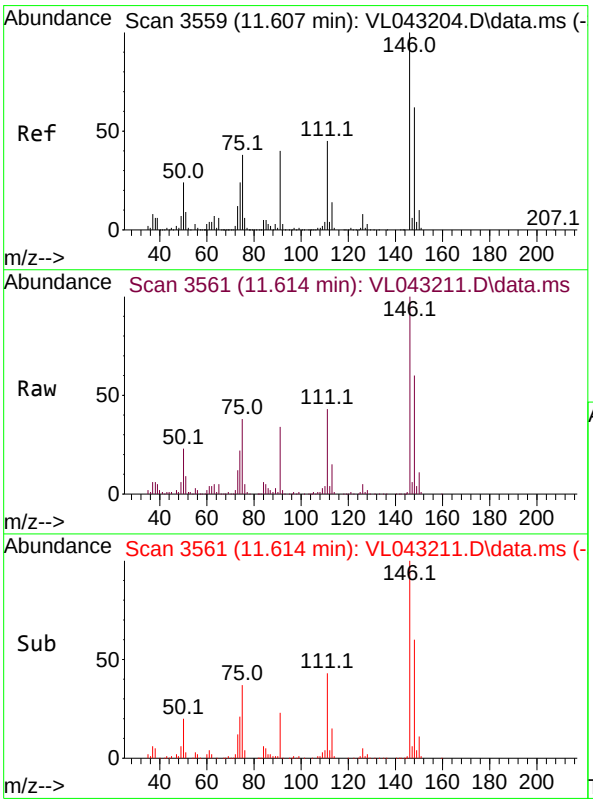
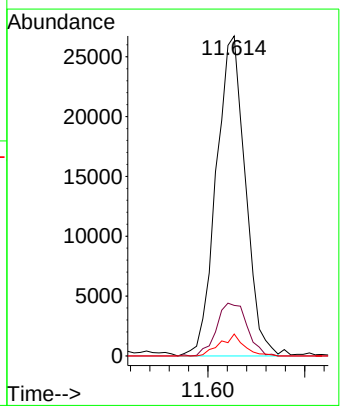
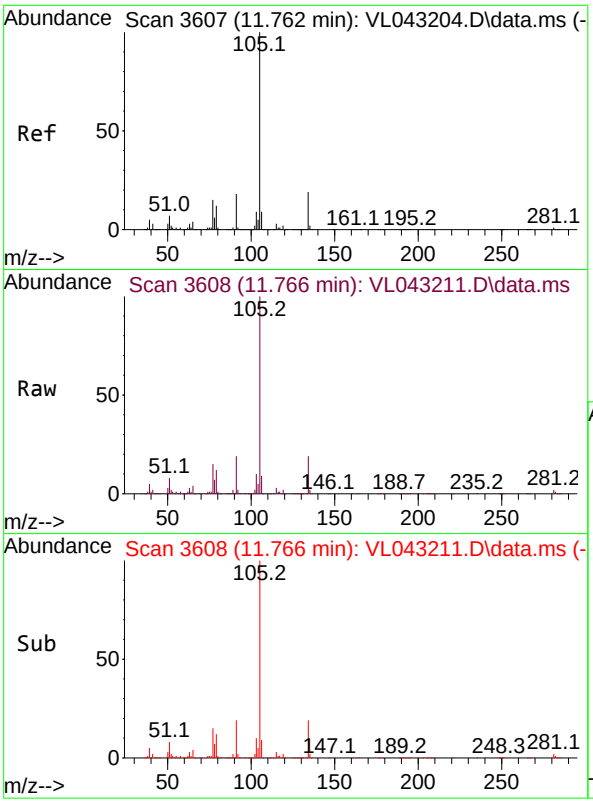


#66
Benzyl Chloride
Concen: 5.159 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 27878

Ion	Ratio	Lower	Upper
91	100		
126	17.3	14.4	21.6
128	5.6	4.6	6.8

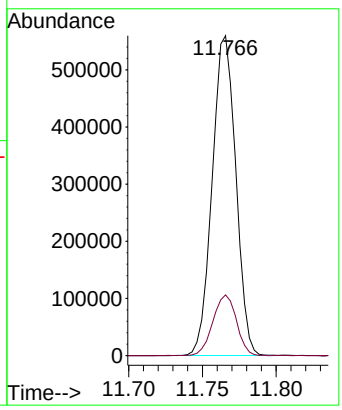




#67
sec-Butylbenzene
Concen: 8.388 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 62352

Ion	Ratio	Lower	Upper
105	100		
134	19.0	15.0	22.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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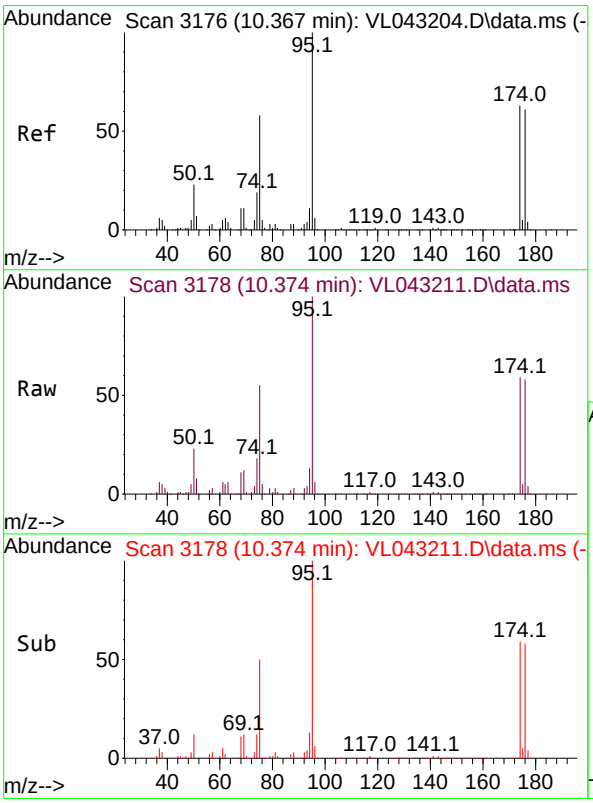
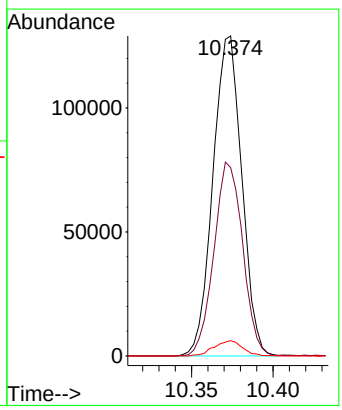
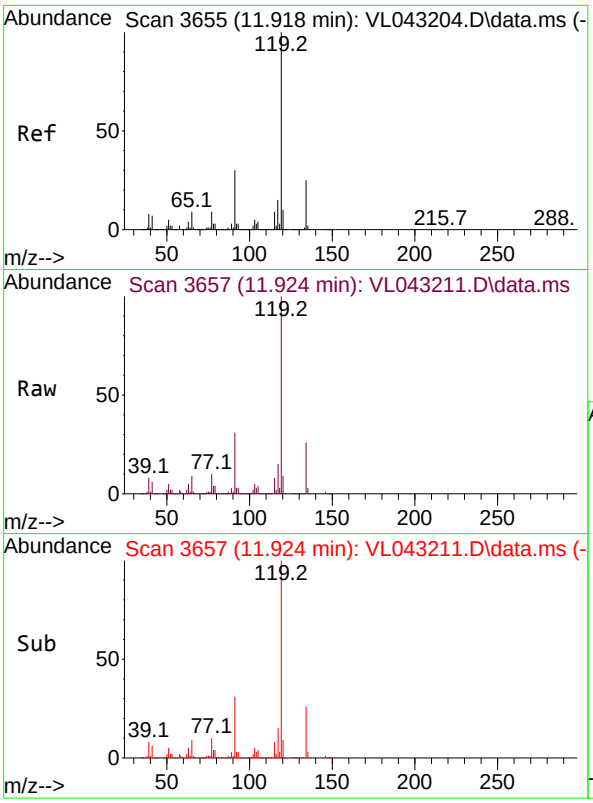


#68
1-Bromo-4-Fluorobenzene
Concen: 10.048 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 95 Resp: 159242

Ion	Ratio	Lower	Upper
95	100		
174	60.4	50.2	75.2
175	4.7	4.1	6.1





#69
p-Isopropyltoluene
Concen: 8.272 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:119 Resp: 52088

Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	30.6	23.8	35.8

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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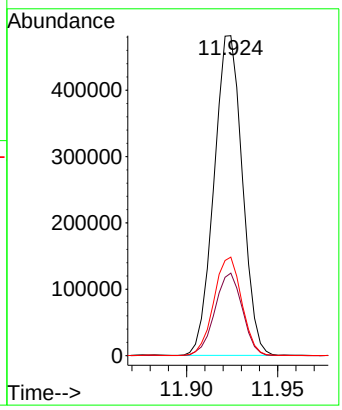
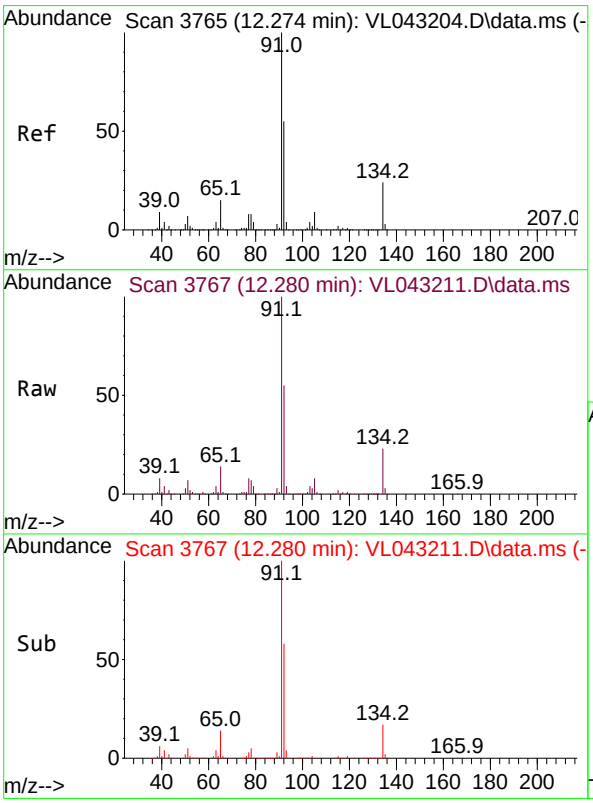
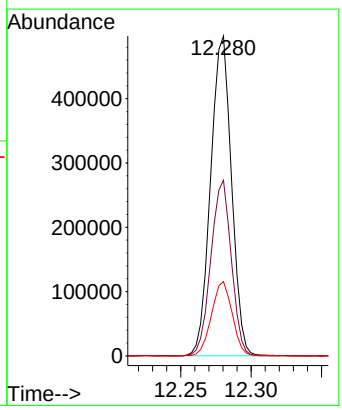


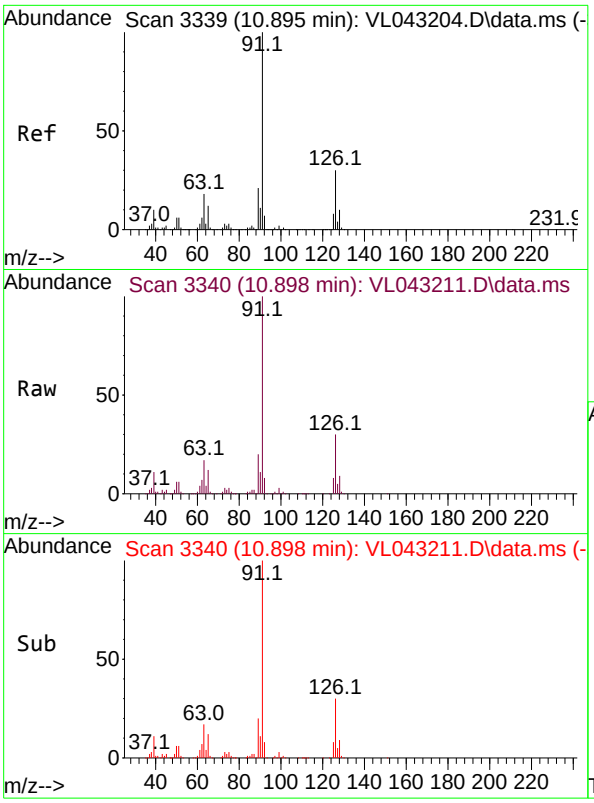


#70
n-Butylbenzene
Concen: 8.398 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 513027

Ion	Ratio	Lower	Upper
91	100		
92	54.0	43.5	65.3
134	23.1	19.0	28.6

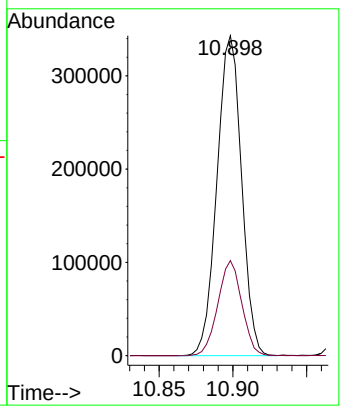




#71
2-Chlorotoluene
Concen: 8.649 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 39643

Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
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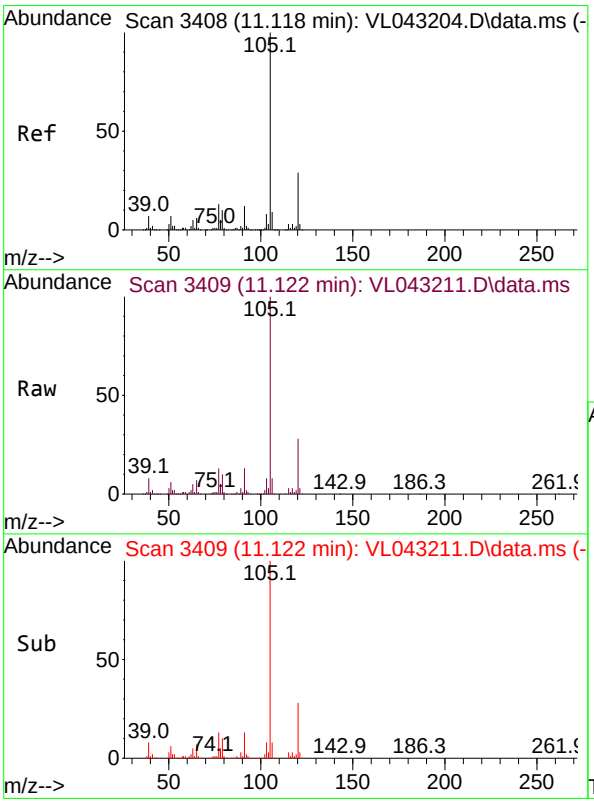
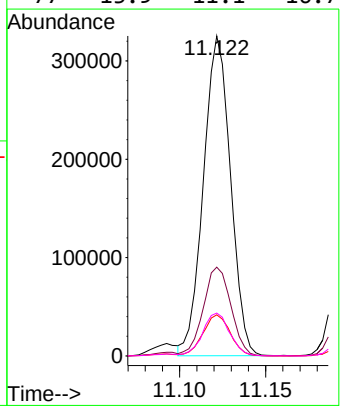
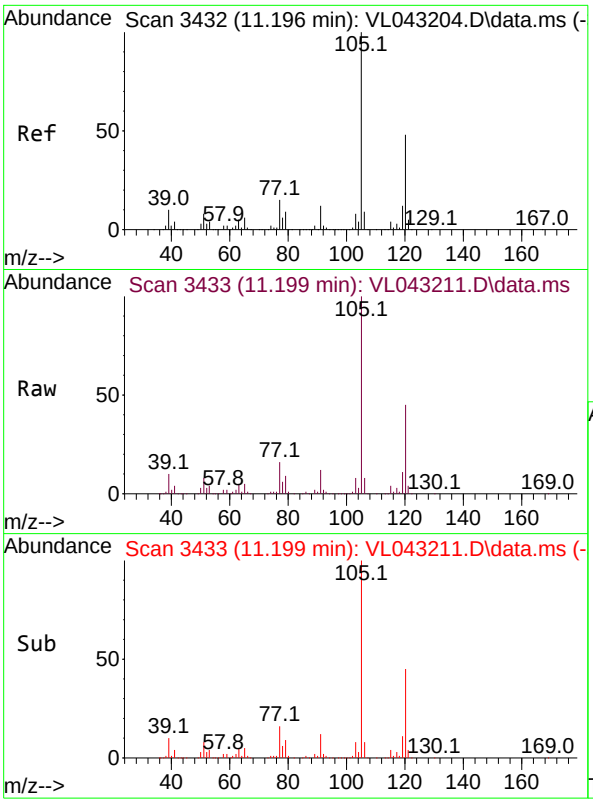


#72
4-Ethyltoluene
Concen: 8.779 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 356325

Ion	Ratio	Lower	Upper
105	100		
120	29.3	23.8	35.8
91	13.5	10.3	15.5
77	13.9	11.1	16.7

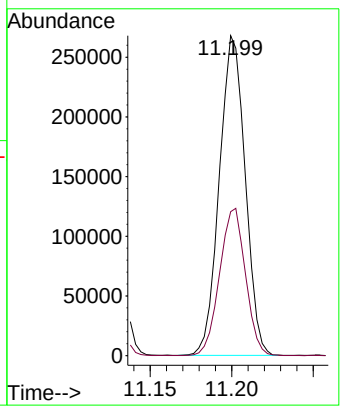




#73
1,3,5-Trimethylbenzene
Concen: 8.660 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 29497

Ion	Ratio	Lower	Upper
105	100		
120	45.0	38.6	57.8



Instrument :
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ClientSampleId :
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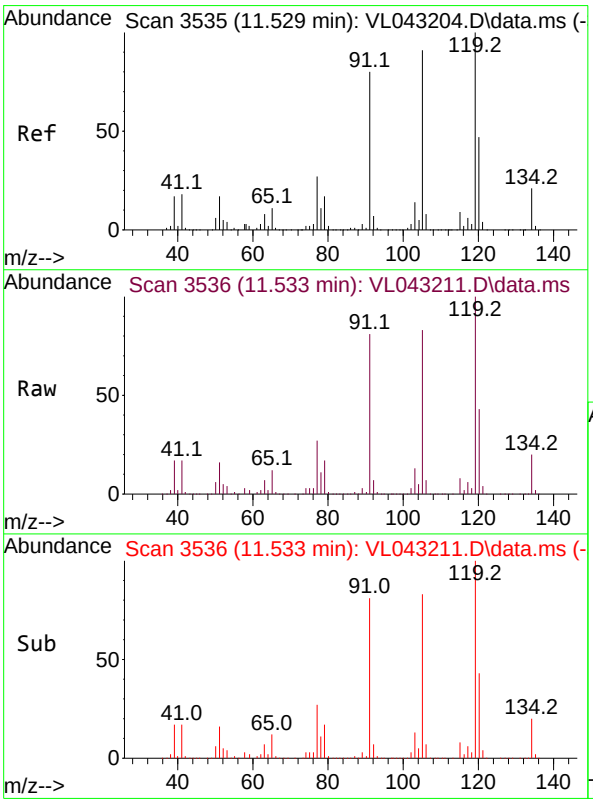
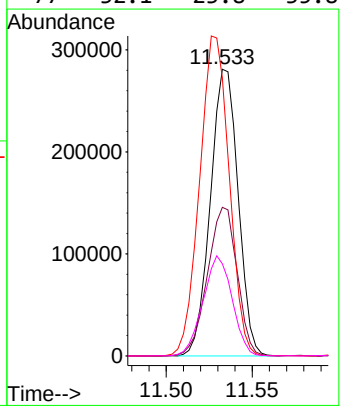
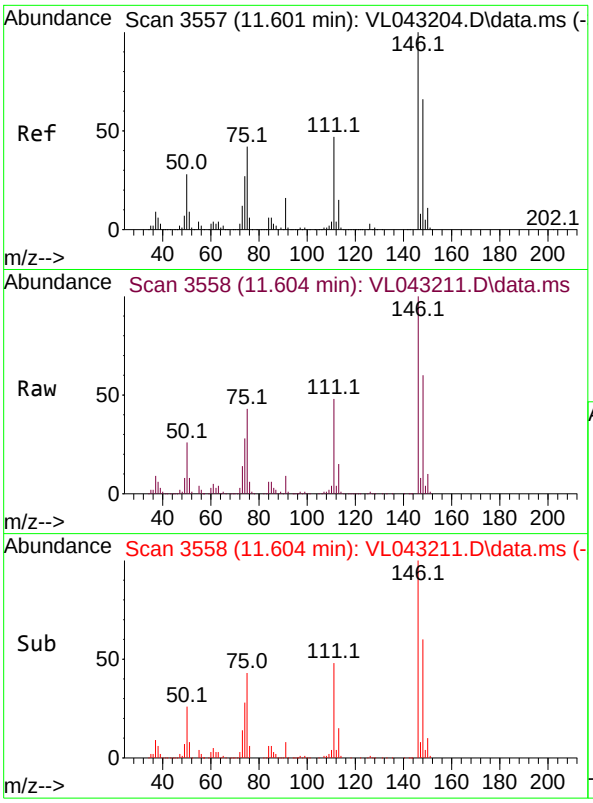


#74
1,2,4-Trimethylbenzene
Concen: 8.463 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 314606

Ion	Ratio	Lower	Upper
105	100		
120	51.8	41.7	62.5
91	96.9	70.0	105.0
77	32.1	23.8	35.8

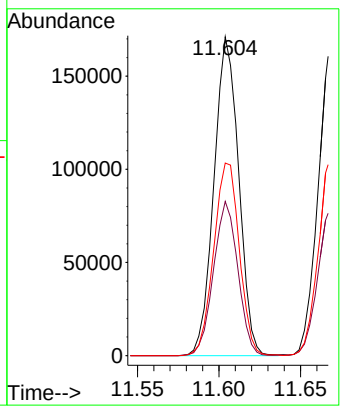




#75
1,3-Dichlorobenzene
Concen: 8.320 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:146 Resp: 18049

Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.4	70.3
148	62.7	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

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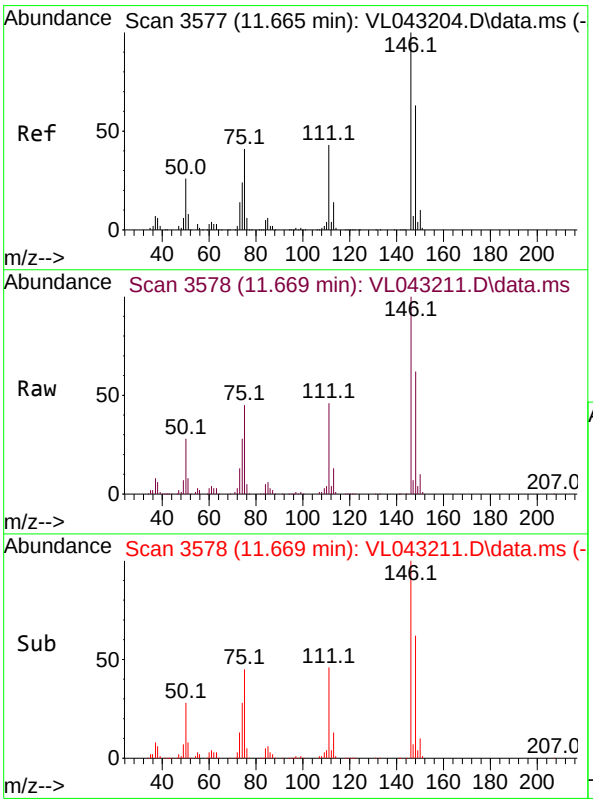
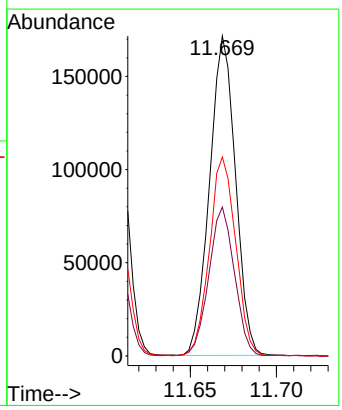
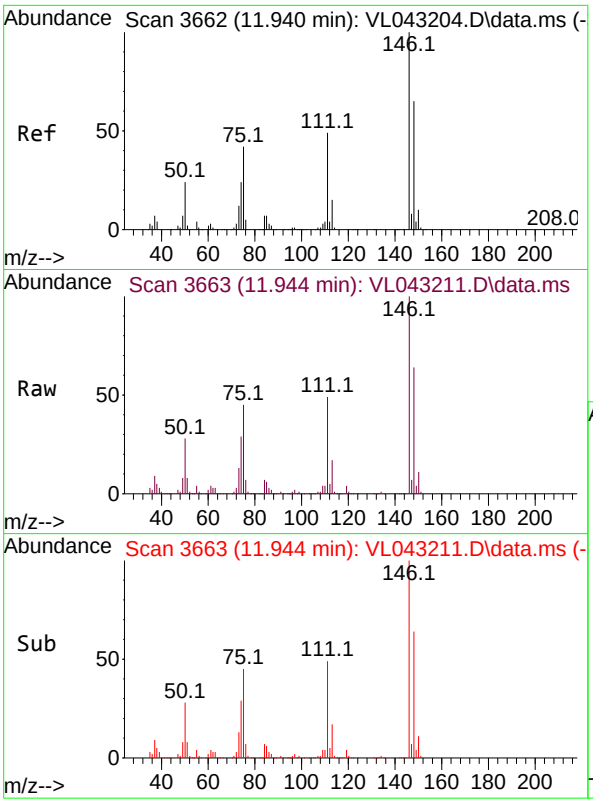


#76
1,4-Dichlorobenzene
Concen: 8.273 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:146 Resp: 179491

Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.8	68.3
148	63.4	31.8	95.4

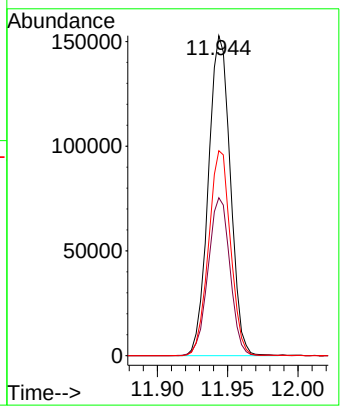




#77
1,2-Dichlorobenzene
Concen: 7.966 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:146 Resp: 16613

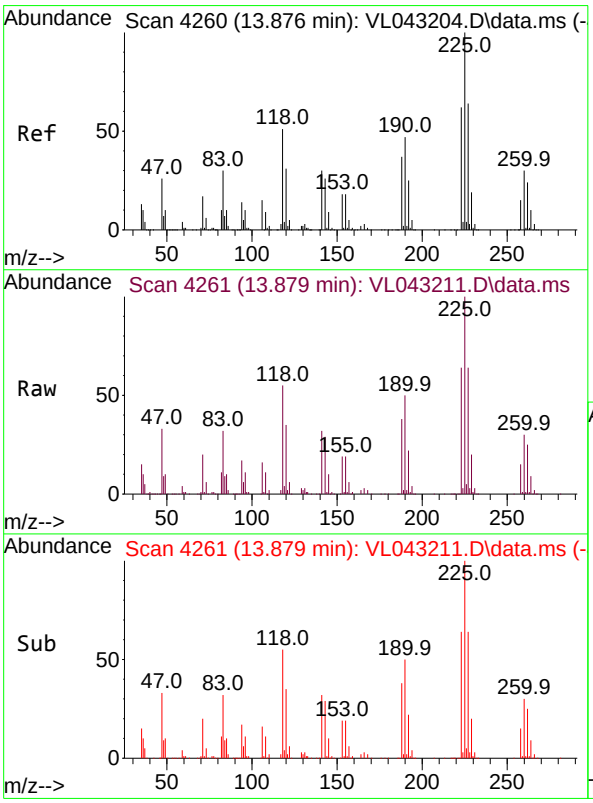
Ion	Ratio	Lower	Upper
146	100		
111	49.2	24.3	73.0
148	63.9	31.6	94.7



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations
APPROVED

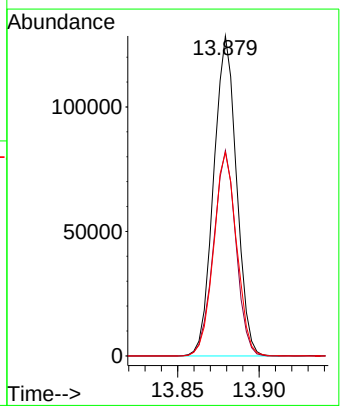
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

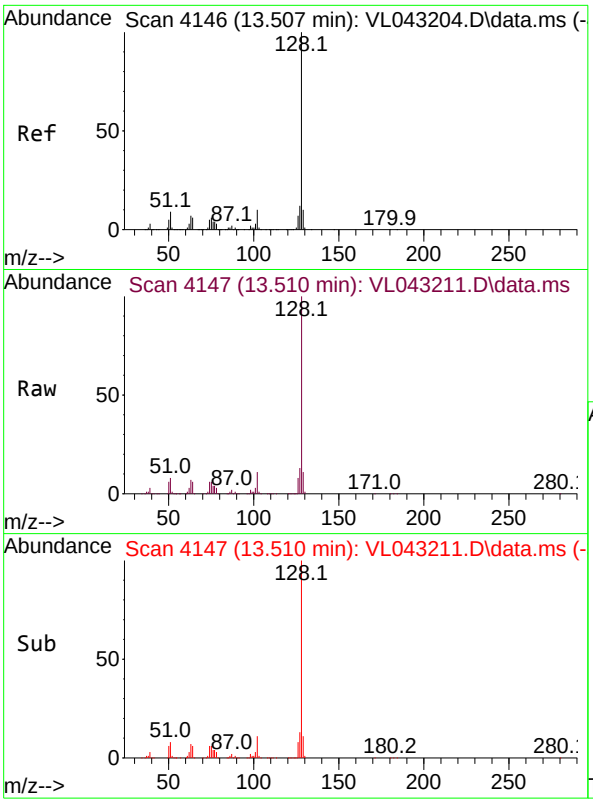


#78
Hexachloro-1,3-Butadiene
Concen: 7.222 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:225 Resp: 125707

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.4
227	63.7	51.1	76.7

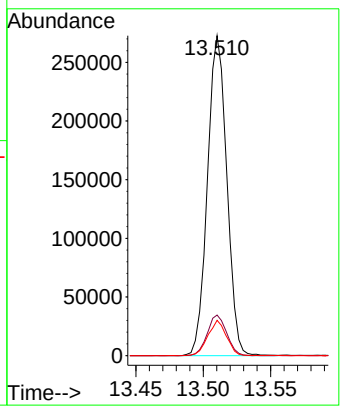




#79
Naphthalene
Concen: 8.270 ppbv
RT: 13.510 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:128 Resp: 27302

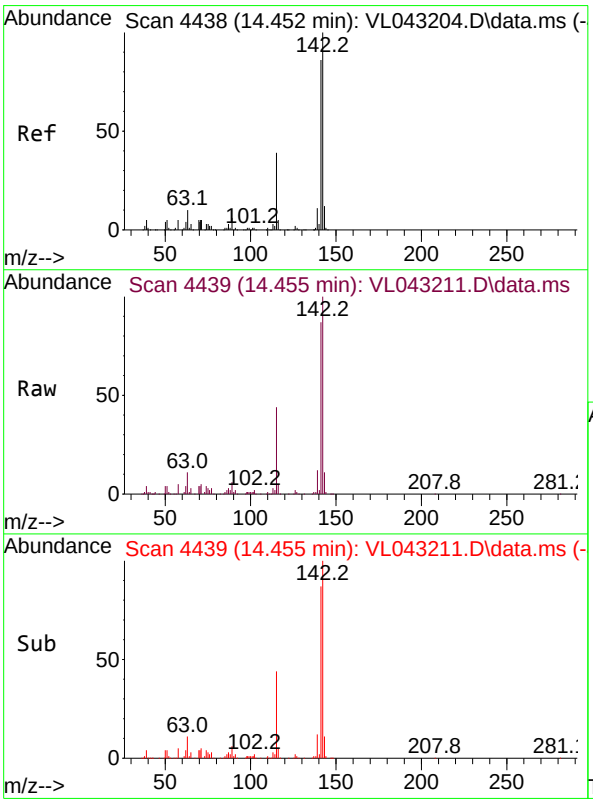
Ion	Ratio	Lower	Upper
128	100		
127	12.7	9.9	14.9
129	11.0	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations
APPROVED

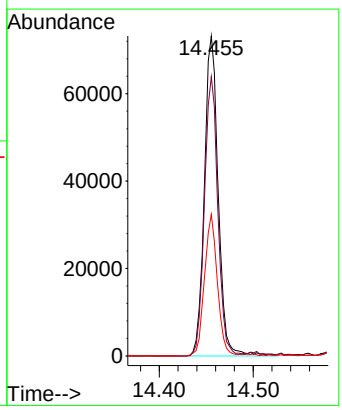
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

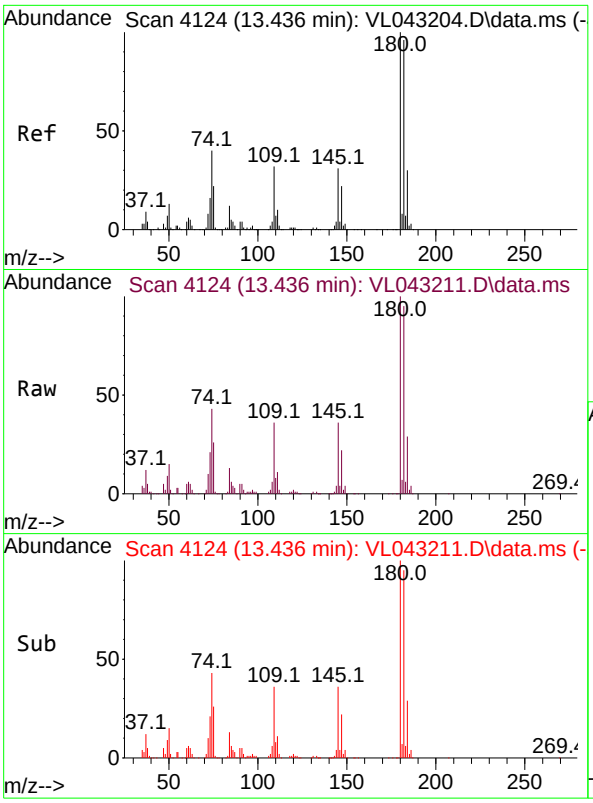


#80
Naphthalene,2-methyl-
Concen: 8.631 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:142 Resp: 74802

Ion	Ratio	Lower	Upper
142	100		
141	86.8	67.1	100.7
115	41.7	31.9	47.9

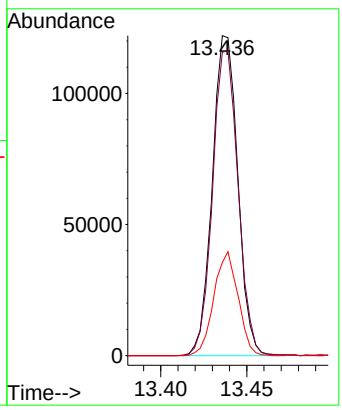




#81
1,2,4-Trichlorobenzene
Concen: 8.497 ppbv
RT: 13.436 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:180 Resp: 12547

Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.4	116.2
184	30.9	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2	T	Dichlorodifluoromethane	1.410	1.363	3.3	95	0.00
3		Chlorodifluoromethane	1.387	1.276	8.0	90	0.00
4		Chloromethane	0.527	0.479	9.1	90	0.00
5	T	Vinyl Chloride	0.577	0.490	15.1	94	0.00
6	T	Bromomethane	0.280	0.227	18.9	84	0.00
7		Chloroethane	0.225	0.203	9.8	97	0.00
8	T	Dichlorotetrafluoroethane	1.173	1.130	3.7	96	0.00
9	T	Propene	0.589	0.552	6.3	103	0.00
10	T	Heptane	1.753	1.525	13.0	88	0.00
11	T	Trichlorofluoromethane	1.367	1.377	-0.7	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.067	1.032	3.3	97	0.00
13		Ethanol	0.207	0.157	24.2	88	0.00
14	T	Bromoethene	0.409	0.378	7.6	97	0.00
15	T	Acetone	1.389	1.071	22.9	97	0.00
16	T	1,3-Butadiene	0.619	0.560	9.5	95	0.00
17		tert-Butyl alcohol	1.824	1.686	7.6	92	0.00
18	T	1,1-Dichloroethene	0.497	0.448	9.9	95	0.00
19	T	Isopropyl Alcohol	0.785	0.662	15.7	90	0.00
20	T	Methylene Chloride	0.600	0.422	29.7	99	0.00
21	T	Allyl Chloride	0.935	0.772	17.4	85	0.00
22	T	trans-1,2-Dichloroethene	0.568	0.513	9.7	96	0.00
23	T	Vinyl Acetate	1.677	1.432	14.6	82	0.00
24	T	1,1-Dichloroethane	1.096	1.054	3.8	96	0.00
25	T	Ethyl Acetate	2.996	2.643	11.8	89	0.00
26	T	Hexane	1.314	1.168	11.1	88	0.00
27	T	Carbon Disulfide	1.341	1.278	4.7	95	0.00
28	T	Methyl tert-Butyl Ether	0.645	0.656	-1.7	103	0.00
29	T	Chloroform	1.867	1.778	4.8	93	0.00
30	T	Cyclohexane	1.101	1.008	8.4	92	0.00
31	T	cis-1,2-Dichloroethene	1.306	1.225	6.2	92	0.00
32	T	1,1,1-Trichloroethane	1.990	1.863	6.4	92	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34	T	2-Butanone	0.706	0.615	12.9	88	0.00
35	T	Carbon Tetrachloride	0.759	0.698	8.0	91	0.00
36	T	Benzene	0.958	0.890	7.1	91	0.00
37	T	1,2-Dichloroethane	0.560	0.547	2.3	95	0.00
38	T	Trichloroethene	0.375	0.347	7.5	91	0.00
39	T	1,2-Dichloropropane	0.351	0.318	9.4	88	0.00
40	T	1,4-Dioxane	0.158	0.123	22.2	79	0.00
41	T	Tetrahydrofuran	0.390	0.347	11.0	87	0.00
42	T	Bromodichloromethane	0.773	0.746	3.5	92	0.00
43		Methyl Methacrylate	0.508	0.444	12.6	89	0.00
44	T	2,2,4-Trimethylpentane	1.645	1.502	8.7	89	0.00
45	T	t-1,3-Dichloropropene	0.474	0.373	21.3	76	0.00
46	T	cis-1,3-Dichloropropene	0.556	0.441	20.7	76	0.00
47	T	1,1,2-Trichloroethane	0.372	0.338	9.1	91	0.01
48	T	Dibromochloromethane	0.640	0.608	5.0	91	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	0.566	0.515	9.0	86	0.00
50	T	4-Methyl-2-Pentanone	0.994	0.858	13.7	84	0.00
51	T	2-Hexanone	0.772	0.636	17.6	80	0.00
52	T	Tetrachloroethene	0.356	0.316	11.2	89	0.00
53	T	Toluene	1.134	1.043	8.0	90	0.00
54	T	1,2-Dibromoethane	0.547	0.477	12.8	84	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56		1,1,1,2-Tetrachloroethane	0.735	0.659	10.3	90	0.00
57	T	Chlorobenzene	1.027	0.922	10.2	88	0.00
58	T	Ethyl Benzene	1.925	1.764	8.4	89	0.00
59	T	m/p-Xylene	1.543	1.397	9.5	90	0.00
60	T	o-Xylene	1.542	1.368	11.3	89	0.00
61	T	Styrene	0.675	0.588	12.9	84	0.00
62		Isopropylbenzene	2.758	2.431	11.9	88	0.00
63	T	1,1,2,2-Tetrachloroethane	0.981	0.826	15.8	85	0.00
64		n-propylbenzene	0.709	0.609	14.1	85	0.00
65		tert-Butylbenzene	2.463	2.085	15.3	86	0.00
66	T	Benzyl Chloride	0.250	0.129	48.4#	49	0.00
67		sec-Butylbenzene	3.438	2.884	16.1	85	0.00
68	S	1-Bromo-4-Fluorobenzene	0.733	0.737	-0.5	92	0.00
69		p-Isopropyltoluene	2.912	2.409	17.3	83	0.00
70		n-Butylbenzene	2.825	2.373	16.0	83	0.00
71		2-Chlorotoluene	2.120	1.834	13.5	86	0.00
72	T	4-Ethyltoluene	1.877	1.648	12.2	87	0.00
73	T	1,3,5-Trimethylbenzene	1.575	1.364	13.4	86	0.00
74	T	1,2,4-Trimethylbenzene	1.719	1.455	15.4	87	0.00
75	T	1,3-Dichlorobenzene	1.003	0.835	16.7	82	0.00
76	T	1,4-Dichlorobenzene	1.003	0.830	17.2	81	0.00
77	T	1,2-Dichlorobenzene	0.965	0.768	20.4	81	0.00
78	T	Hexachloro-1,3-Butadiene	0.805	0.581	27.8	78	0.00
79	T	Naphthalene	1.527	1.263	17.3	78	0.00
80	T	Naphthalene,2-methyl-	0.401	0.346	13.7	80	0.00
81	T	1,2,4-Trichlorobenzene	0.683	0.580	15.1	79	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\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	93	0.00
2	T	Dichlorodifluoromethane	10.000	9.664	3.4	95	0.00
3		Chlorodifluoromethane	10.000	9.199	8.0	90	0.00
4		Chloromethane	10.000	9.090	9.1	90	0.00
5	T	Vinyl Chloride	10.000	8.493	15.1	94	0.00
6	T	Bromomethane	10.000	8.126	18.7	84	0.00
7		Chloroethane	10.000	9.033	9.7	97	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.632	3.7	96	0.00
9	T	Propene	10.000	9.370	6.3	103	0.00
10	T	Heptane	10.000	8.698	13.0	88	0.00
11	T	Trichlorofluoromethane	10.000	10.077	-0.8	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.673	3.3	97	0.00
13		Ethanol	10.000	7.584	24.2	88	0.00
14	T	Bromoethene	10.000	9.240	7.6	97	0.00
15	T	Acetone	10.000	7.711	22.9	97	0.00
16	T	1,3-Butadiene	10.000	9.041	9.6	95	0.00
17		tert-Butyl alcohol	10.000	9.245	7.6	92	0.00
18	T	1,1-Dichloroethene	10.000	9.017	9.8	95	0.00
19	T	Isopropyl Alcohol	10.000	8.431	15.7	90	0.00
20	T	Methylene Chloride	10.000	10.323	-3.2	99	0.00
21	T	Allyl Chloride	10.000	8.256	17.4	85	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.041	9.6	96	0.00
23	T	Vinyl Acetate	10.000	8.539	14.6	82	0.00
24	T	1,1-Dichloroethane	10.000	9.622	3.8	96	0.00
25	T	Ethyl Acetate	10.000	8.820	11.8	89	0.00
26	T	Hexane	10.000	8.892	11.1	88	0.00
27	T	Carbon Disulfide	10.000	9.528	4.7	95	0.00
28	T	Methyl tert-Butyl Ether	10.000	10.171	-1.7	103	0.00
29	T	Chloroform	10.000	9.521	4.8	93	0.00
30	T	Cyclohexane	10.000	9.148	8.5	92	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.379	6.2	92	0.00
32	T	1,1,1-Trichloroethane	10.000	9.358	6.4	92	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34	T	2-Butanone	10.000	8.707	12.9	88	0.00
35	T	Carbon Tetrachloride	10.000	9.200	8.0	91	0.00
36	T	Benzene	10.000	9.293	7.1	91	0.00
37	T	1,2-Dichloroethane	10.000	9.772	2.3	95	0.00
38	T	Trichloroethene	10.000	9.272	7.3	91	0.00
39	T	1,2-Dichloropropane	10.000	9.086	9.1	88	0.00
40	T	1,4-Dioxane	10.000	7.780	22.2	79	0.00
41	T	Tetrahydrofuran	10.000	8.891	11.1	87	0.00
42	T	Bromodichloromethane	10.000	9.657	3.4	92	0.00
43		Methyl Methacrylate	10.000	8.737	12.6	89	0.00
44	T	2,2,4-Trimethylpentane	10.000	9.133	8.7	89	0.00
45	T	t-1,3-Dichloropropene	10.000	7.863	21.4	76	0.00
46	T	cis-1,3-Dichloropropene	10.000	7.924	20.8	76	0.00
47	T	1,1,2-Trichloroethane	10.000	9.086	9.1	91	0.01
48	T	Dibromochloromethane	10.000	9.514	4.9	91	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	9.085	9.1	86	0.00
50	T	4-Methyl-2-Pentanone	10.000	8.631	13.7	84	0.00
51	T	2-Hexanone	10.000	8.233	17.7	80	0.00
52	T	Tetrachloroethene	10.000	8.884	11.2	89	0.00
53	T	Toluene	10.000	9.197	8.0	90	0.00
54	T	1,2-Dibromoethane	10.000	8.705	13.0	84	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	92	0.00
56		1,1,1,2-Tetrachloroethane	10.000	8.969	10.3	90	0.00
57	T	Chlorobenzene	10.000	8.981	10.2	88	0.00
58	T	Ethyl Benzene	10.000	9.167	8.3	89	0.00
59	T	m/p-Xylene	20.000	18.108	9.5	90	0.00
60	T	o-Xylene	10.000	8.876	11.2	89	0.00
61	T	Styrene	10.000	8.714	12.9	84	0.00
62		Isopropylbenzene	10.000	8.816	11.8	88	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	8.421	15.8	85	0.00
64		n-propylbenzene	10.000	8.591	14.1	85	0.00
65		tert-Butylbenzene	10.000	8.465	15.4	86	0.00
66	T	Benzyl Chloride	10.000	5.159	48.4#	49	0.00
67		sec-Butylbenzene	10.000	8.388	16.1	85	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.048	-0.5	92	0.00
69		p-Isopropyltoluene	10.000	8.272	17.3	83	0.00
70		n-Butylbenzene	10.000	8.398	16.0	83	0.00
71		2-Chlorotoluene	10.000	8.649	13.5	86	0.00
72	T	4-Ethyltoluene	10.000	8.779	12.2	87	0.00
73	T	1,3,5-Trimethylbenzene	10.000	8.660	13.4	86	0.00
74	T	1,2,4-Trimethylbenzene	10.000	8.463	15.4	87	0.00
75	T	1,3-Dichlorobenzene	10.000	8.320	16.8	82	0.00
76	T	1,4-Dichlorobenzene	10.000	8.273	17.3	81	0.00
77	T	1,2-Dichlorobenzene	10.000	7.966	20.3	81	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	7.222	27.8	78	0.00
79	T	Naphthalene	10.000	8.270	17.3	78	0.00
80	T	Naphthalene,2-methyl-	10.000	8.631	13.7	80	0.00
81	T	1,2,4-Trichlorobenzene	10.000	8.497	15.0	79	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.: Q3799

Instrument ID: MSVOA_L | Calibration Date/Time: 12/08/2025 08:44

Lab File ID: VL043305.D | Init. Calib. Date(s): 11/18/2025 11/18/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:29 13:24

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.410	1.501		6.45	30
Chloromethane	0.527	0.540		2.47	30
Vinyl Chloride	0.577	0.526		-8.84	30
Bromomethane	0.280	0.255		-8.93	30
Chloroethane	0.225	0.217		-3.56	30
Tetrahydrofuran	0.390	0.375		-3.85	30
Trichlorofluoromethane	1.367	1.556		13.83	30
1,1,2-Trichlorotrifluoroethane	1.067	1.193		11.81	30
Dichlorotetrafluoroethane	1.173	1.224		4.35	30
tert-Butyl alcohol	1.824	1.625		-10.91	30
Heptane	1.753	1.655		-5.59	30
1,1-Dichloroethene	0.497	0.521		4.83	30
Acetone	1.389	1.192		-14.18	30
Carbon Disulfide	1.341	1.459		8.8	30
Methyl tert-Butyl Ether	0.645	0.654		1.39	30
Methylene Chloride	0.600	0.470		-21.67	30
trans-1,2-Dichloroethene	0.568	0.584		2.82	30
1,1-Dichloroethane	1.096	1.133		3.38	30
Cyclohexane	1.101	1.072		-2.63	30
2-Butanone	0.706	0.734		3.97	30
Carbon Tetrachloride	0.759	0.922		21.48	30
cis-1,2-Dichloroethene	1.306	1.287		-1.46	30
Chloroform	1.867	2.168		16.12	30
1,1,1-Trichloroethane	1.990	2.167		8.89	30
2,2,4-Trimethylpentane	1.645	1.794		9.06	30
Benzene	0.958	1.061		10.75	30
1,2-Dichloroethane	0.560	0.657		17.32	30
Trichloroethene	0.375	0.424		13.07	30
1,2-Dichloropropane	0.351	0.379		7.98	30
Bromodichloromethane	0.773	0.938		21.34	30
4-Methyl-2-Pentanone	0.994	0.969		-2.52	30
Toluene	1.134	1.153		1.67	30
t-1,3-Dichloropropene	0.474	0.366		-22.78	30
cis-1,3-Dichloropropene	0.556	0.457		-17.81	30
1,1,2-Trichloroethane	0.372	0.423		13.71	30
Dibromochloromethane	0.640	0.752		17.5	30
1,2-Dibromoethane	0.547	0.579		5.85	30
Tetrachloroethene	0.356	0.385		8.15	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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.: Q3799

Instrument ID: MSVOA_L Calibration Date/Time: 12/08/2025 08:44

Lab File ID: VL043305.D Init. Calib. Date(s): 11/18/2025 11/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:29 13:24

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	1.027	1.226		19.38	30
Ethyl Benzene	1.925	2.145		11.43	30
m/p-Xylene	1.543	1.823		18.15	30
o-Xylene	1.542	1.819		17.96	30
Styrene	0.675	0.679		0.59	30
Bromoform	0.566	0.681		20.32	30
1,1,2,2-Tetrachloroethane	0.981	1.179		20.18	30
2-Chlorotoluene	2.120	2.393		12.88	30
1,3,5-Trimethylbenzene	1.575	1.812		15.05	30
1,2,4-Trimethylbenzene	1.719	2.029		18.03	30
1,3-Dichlorobenzene	1.003	1.213		20.94	30
1,4-Dichlorobenzene	1.003	1.212		20.84	30
1,2-Dichlorobenzene	0.965	1.164		20.62	30
1,2,4-Trichlorobenzene	0.683	0.821		20.2	30
Hexachloro-1,3-Butadiene	0.805	0.897		11.43	30
1,3-Butadiene	0.619	0.595		-3.88	30
Naphthalene	1.527	1.639		7.34	30
4-Ethyltoluene	1.877	2.192		16.78	30
1-Bromo-4-Fluorobenzene	0.733	0.753		2.73	30
Hexane	1.314	1.300		-1.07	30
Allyl Chloride	0.935	0.818		-12.51	30
1,4-Dioxane	157.566	139.218		-11.65	30
Methyl Methacrylate	0.508	0.476		-6.3	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\VL120825\
Data File : VL043305.D
Acq On : 08 Dec 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:07:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	129333	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	319801	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	246102	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	185245	10.269	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	194161	10.644	ppbv		98
3) Chlorodifluoromethane	1.473	51	181461	10.115	ppbv		95
4) Chloromethane	1.531	50	69866	10.244	ppbv		96
5) Vinyl Chloride	1.580	62	68051	9.124	ppbv		98
6) Bromomethane	1.667	94	33036	9.137	ppbv		97
7) Chloroethane	1.703	64	28027	9.648	ppbv		93
8) Dichlorotetrafluoroethane	1.554	85	158307	10.433	ppbv		97
9) Propene	1.479	41	71565	9.394	ppbv	#	1
10) Heptane	4.969	43	214107	9.444	ppbv		99
11) Trichlorofluoromethane	1.874	101	201211	11.385	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.136	101	154240	11.178	ppbv		97
13) Ethanol	1.719	45	22019	8.220	ppbv		97
14) Bromoethene	1.780	108	55354	10.465	ppbv		96
15) Acetone	1.832	43	154196	8.581	ppbv		99
16) 1,3-Butadiene	1.606	39	76902	9.600	ppbv		97
17) tert-Butyl alcohol	2.036	59	210170	8.911	ppbv		98
18) 1,1-Dichloroethene	2.030	96	67377	10.487	ppbv		94
19) Isopropyl Alcohol	1.884	45	84553	8.327	ppbv	#	86
20) Methylene Chloride	2.059	84	60771	11.604	ppbv		96
21) Allyl Chloride	2.091	41	105856	8.756	ppbv		98
22) trans-1,2-Dichloroethene	2.337	96	75565	10.291	ppbv		94
23) Vinyl Acetate	2.457	43	204427	9.424	ppbv	#	96
24) 1,1-Dichloroethane	2.405	63	146480	10.334	ppbv		98
25) Ethyl Acetate	2.829	43	373216	9.630	ppbv		99
26) Hexane	2.819	57	168150	9.897	ppbv		98
27) Carbon Disulfide	2.146	76	188702	10.878	ppbv		99
28) Methyl tert-Butyl Ether	2.434	73	84588	10.142	ppbv		96
29) Chloroform	2.842	83	280385	11.610	ppbv		97
30) Cyclohexane	3.845	84	138616	9.731	ppbv		94
31) cis-1,2-Dichloroethene	2.716	61	166393	9.853	ppbv		96
32) 1,1,1-Trichloroethane	3.360	97	280239	10.886	ppbv		99
34) 2-Butanone	2.551	43	234600	10.392	ppbv		100
35) Carbon Tetrachloride	3.752	117	294900	12.149	ppbv		98
36) Benzene	3.648	78	339149	11.074	ppbv		99
37) 1,2-Dichloroethane	3.211	62	209977	11.721	ppbv		98
38) Trichloroethene	4.535	130	135509	11.309	ppbv		98
39) 1,2-Dichloropropane	4.302	63	121360	10.827	ppbv		87
40) 1,4-Dioxane	4.564	88	44522	8.836	ppbv	#	98
41) Tetrahydrofuran	3.046	42	120028	9.628	ppbv		98
42) Bromodichloromethane	4.477	83	299904	12.136	ppbv		99
43) Methyl Methacrylate	4.865	69	152174	9.361	ppbv		98
44) 2,2,4-Trimethylpentane	4.629	57	573790	10.909	ppbv		99
45) t-1,3-Dichloropropene	6.402	75	117128	7.729	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043305.D
Acq On : 08 Dec 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:07:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	146255m	8.219	ppbv		
47) 1,1,2-Trichloroethane	6.564	97	135385	11.381	ppbv		95
48) Dibromochloromethane	7.370	129	240386	11.753	ppbv		99
49) Bromoform	9.471	173	217719	12.018	ppbv		98
50) 4-Methyl-2-Pentanone	5.729	43	310023	9.749	ppbv		97
51) 2-Hexanone	7.419	43	219906	8.905	ppbv	#	99
52) Tetrachloroethene	8.212	164	123188	10.813	ppbv		98
53) Toluene	6.920	91	368638	10.165	ppbv		100
54) 1,2-Dibromoethane	7.636	107	185272	10.583	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.914	131	231860	12.819	ppbv		97
57) Chlorobenzene	8.911	112	301763	11.943	ppbv		95
58) Ethyl Benzene	9.344	91	527984	11.146	ppbv		95
59) m/p-Xylene	9.522	91	897418m	23.631	ppbv		
60) o-Xylene	9.953	91	447628	11.799	ppbv		99
61) Styrene	9.859	104	167047	10.061	ppbv		99
62) Isopropylbenzene	10.529	105	797107	11.744	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.950	83	290145	12.020	ppbv		99
64) n-propylbenzene	10.979	120	205431	11.779	ppbv		99
65) tert-Butylbenzene	11.523	119	694372	11.455	ppbv		100
66) Benzyl Chloride	11.607	91	30971	5.035	ppbv		98
67) sec-Butylbenzene	11.759	105	982704	11.615	ppbv		99
69) p-Isopropyltoluene	11.918	119	812059	11.330	ppbv		99
70) n-Butylbenzene	12.274	91	780968	11.231	ppbv		99
71) 2-Chlorotoluene	10.892	91	588943	11.289	ppbv		99
72) 4-Ethyltoluene	11.118	105	539530	11.678	ppbv		99
73) 1,3,5-Trimethylbenzene	11.196	105	445981	11.503	ppbv		97
74) 1,2,4-Trimethylbenzene	11.529	105	499268	11.800	ppbv		91
75) 1,3-Dichlorobenzene	11.597	146	298569	12.092	ppbv		98
76) 1,4-Dichlorobenzene	11.662	146	298168	12.074	ppbv		99
77) 1,2-Dichlorobenzene	11.937	146	286499	12.068	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	220765	11.143	ppbv		99
79) Naphthalene	13.507	128	403341	10.733	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	91763	9.302	ppbv		97
81) 1,2,4-Trichlorobenzene	13.432	180	202078	12.024	ppbv		99

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

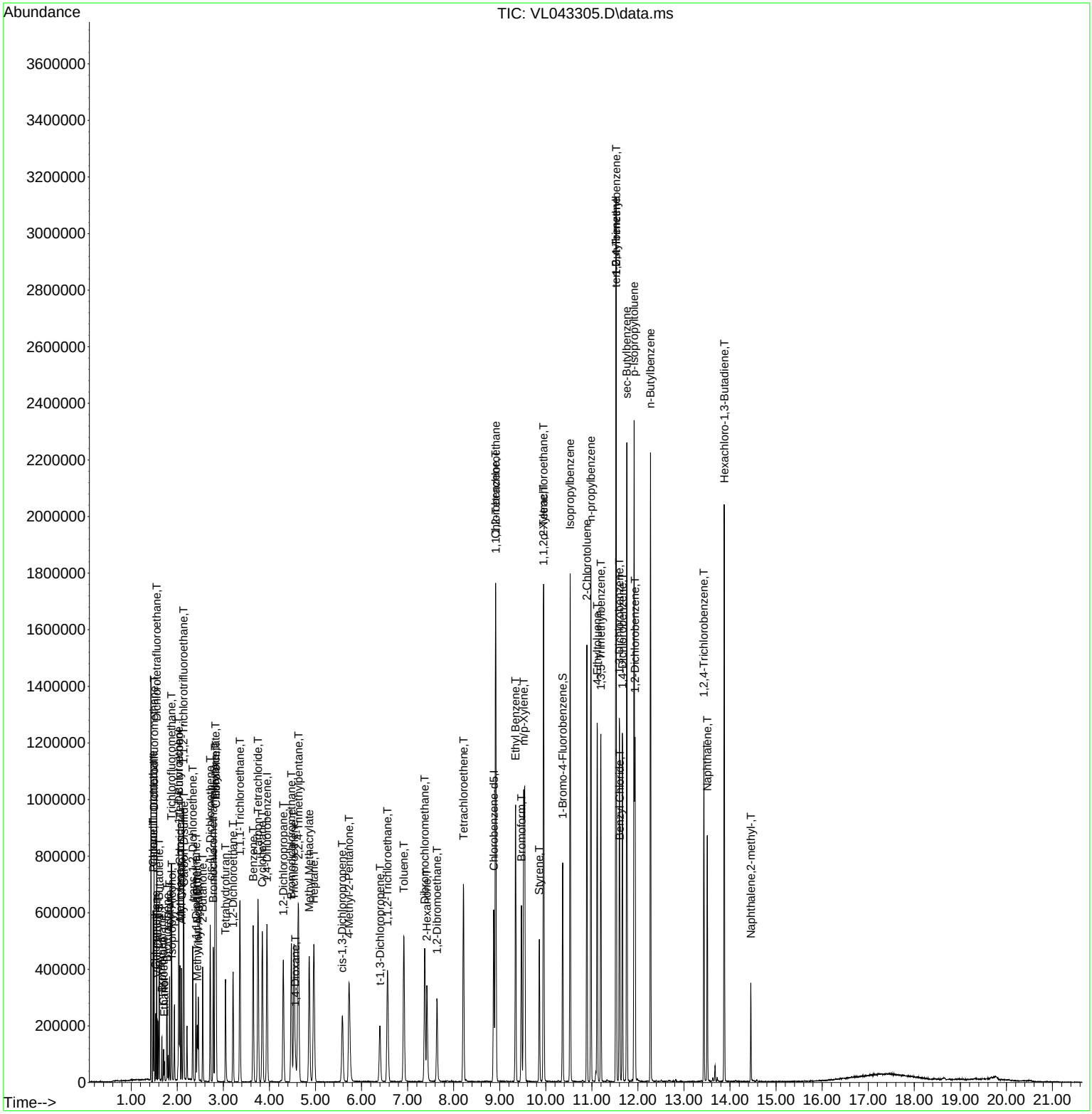
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043305.D
Acq On : 08 Dec 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

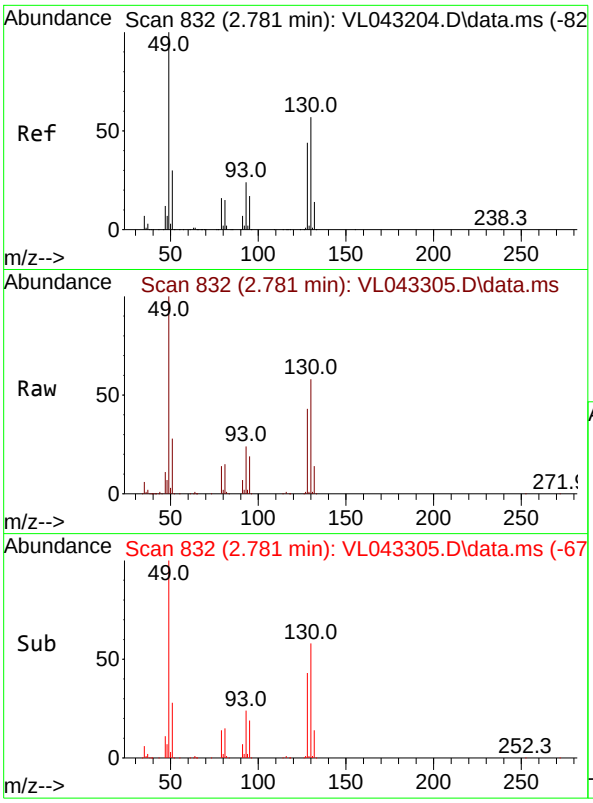
Quant Time: Dec 09 00:07:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

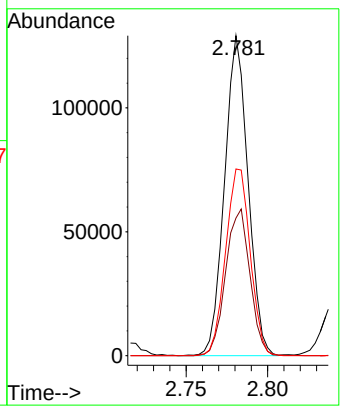




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 49 Resp: 12933

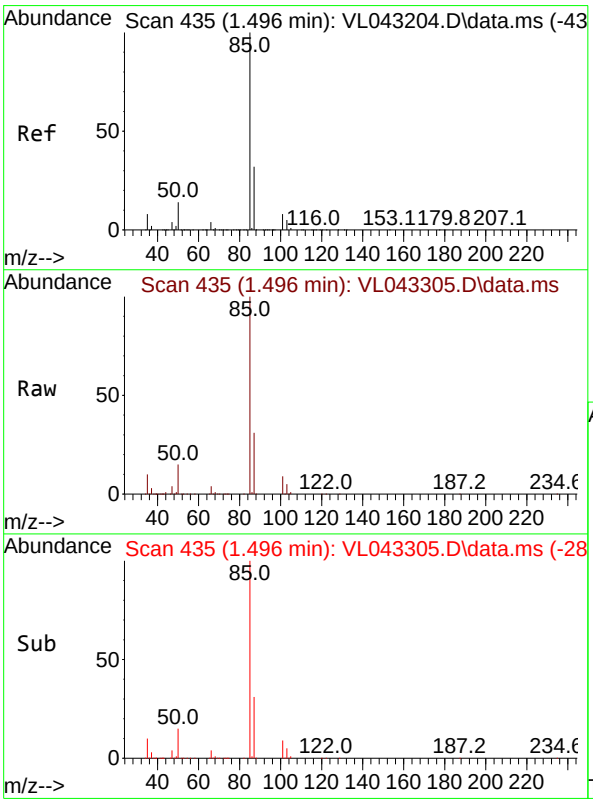
Ion	Ratio	Lower	Upper
49	100		
128	47.5	23.0	69.0
130	61.0	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

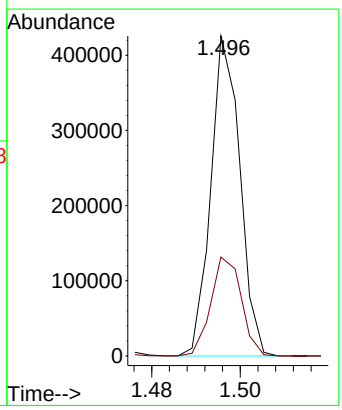
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

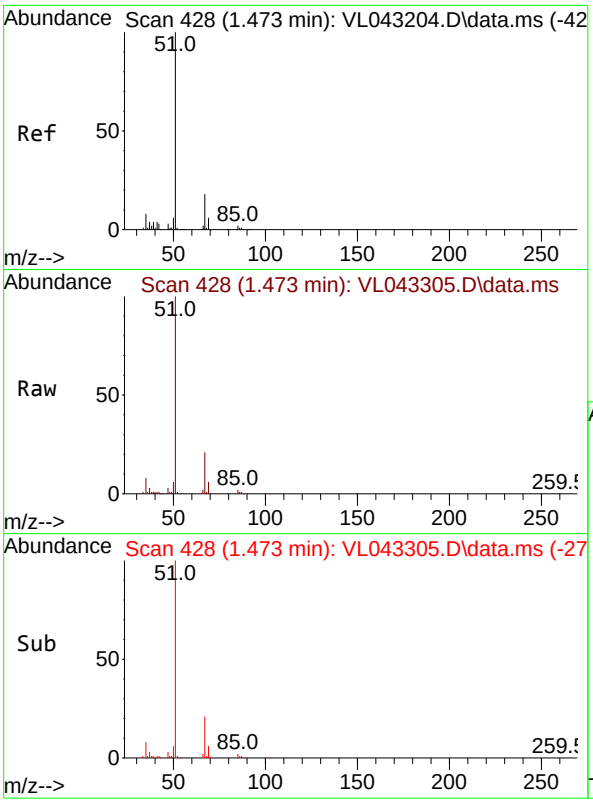


#2
Dichlorodifluoromethane
Concen: 10.644 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 85 Resp: 194161

Ion	Ratio	Lower	Upper
85	100		
87	30.9	25.4	38.2

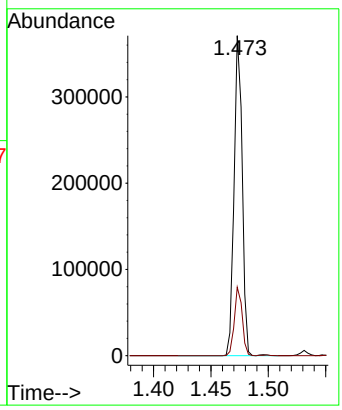




#3
Chlorodifluoromethane
Concen: 10.115 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 51 Resp: 18146

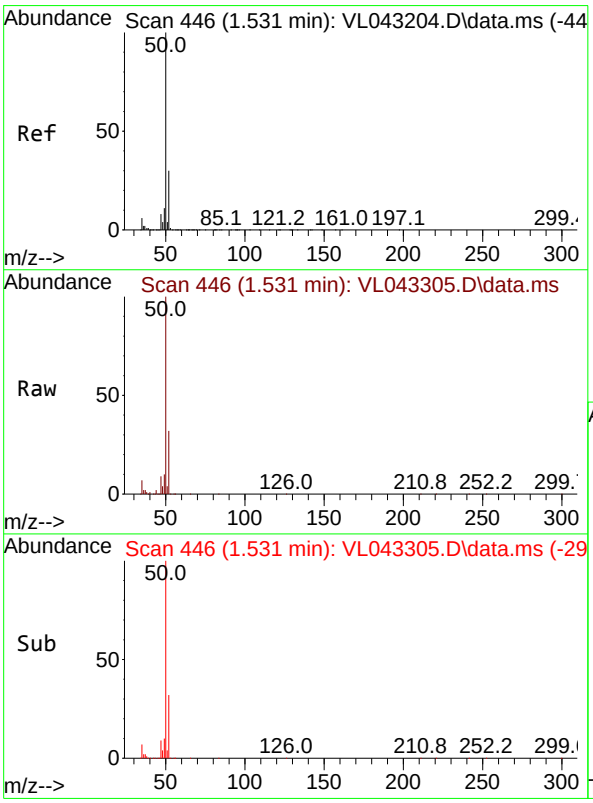
Ion	Ratio	Lower	Upper
51	100		
67	20.9	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

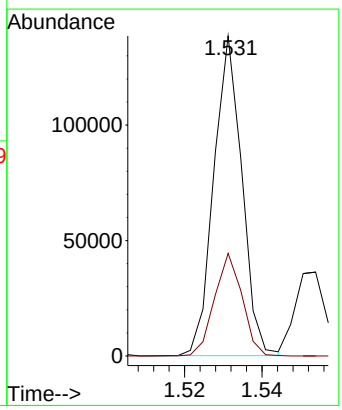
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

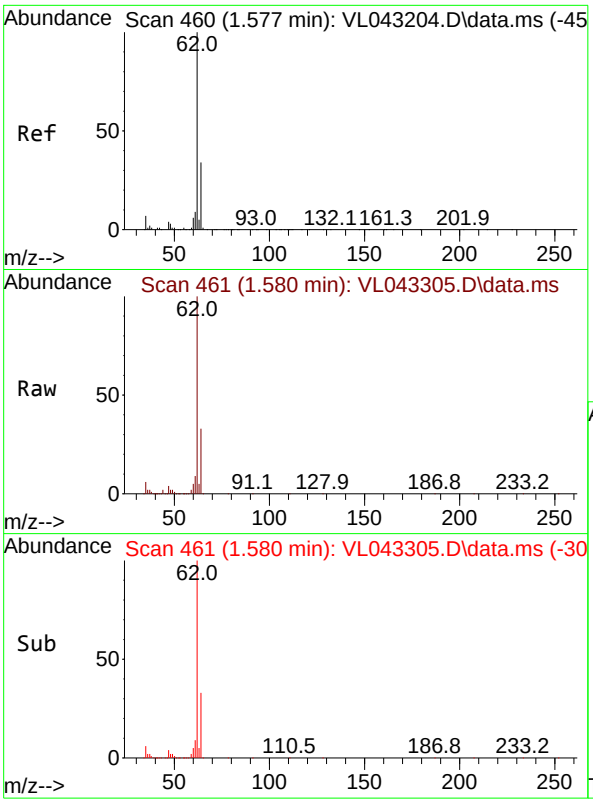


#4
Chloromethane
Concen: 10.244 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 50 Resp: 69866

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.1	36.1

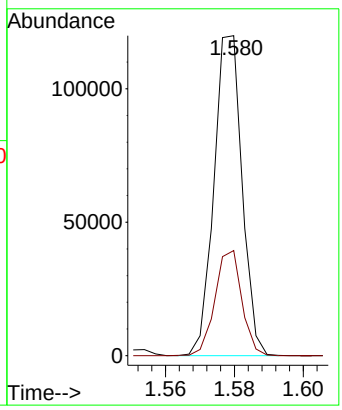




#5
Vinyl Chloride
Concen: 9.124 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 62 Resp: 6805

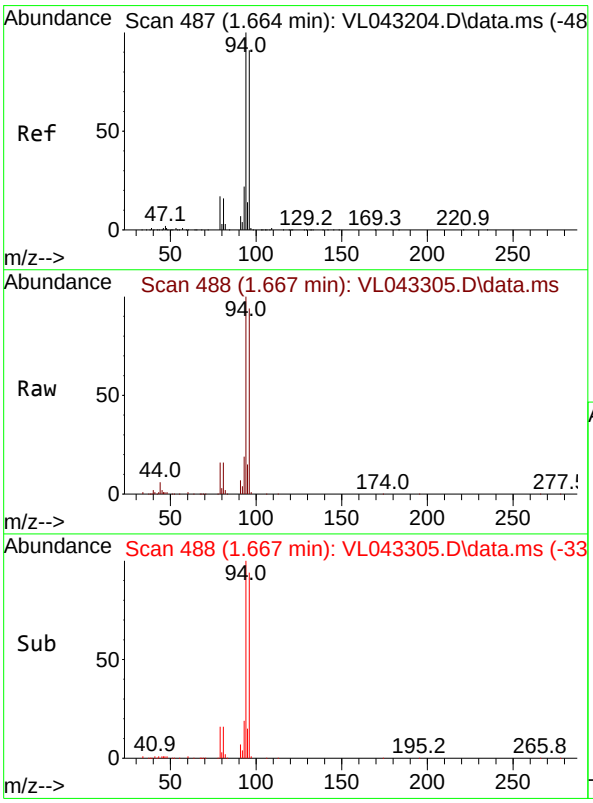
Ion	Ratio	Lower	Upper
62	100		
64	32.9	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

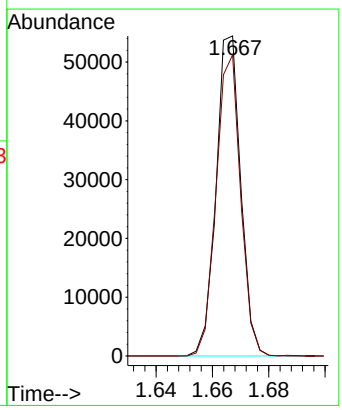
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

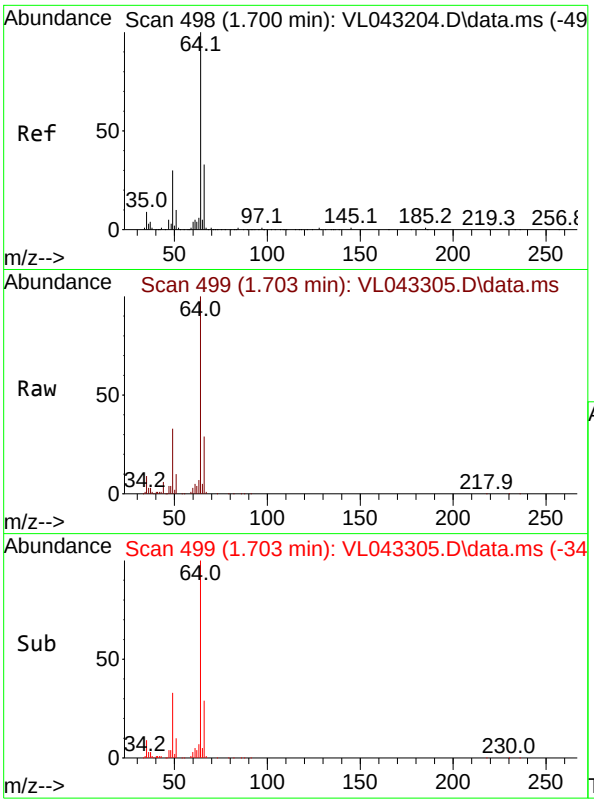


#6
Bromomethane
Concen: 9.137 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 94 Resp: 33036

Ion	Ratio	Lower	Upper
94	100		
96	94.1	72.9	109.3

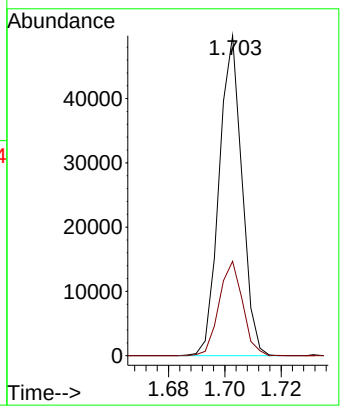




#7
Chloroethane
Concen: 9.648 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 64 Resp: 2802

Ion	Ratio	Lower	Upper
64	100		
66	29.5	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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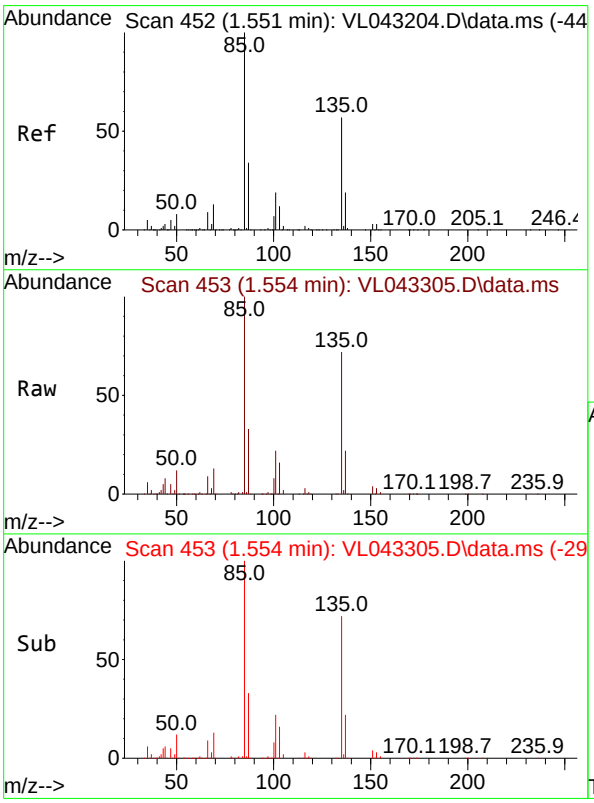
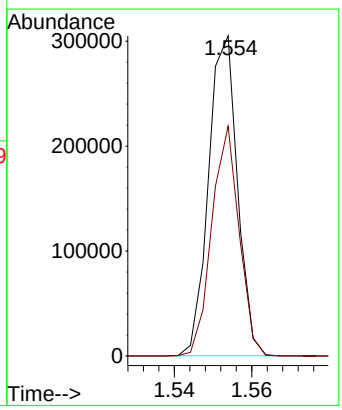
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

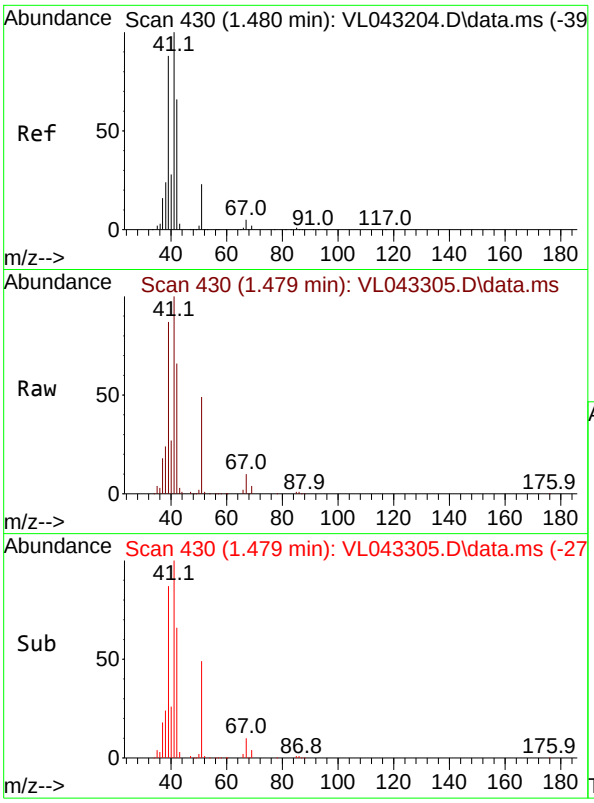


#8
Dichlorotetrafluoroethane
Concen: 10.433 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 85 Resp: 158307

Ion	Ratio	Lower	Upper
85	100		
135	67.8	52.6	79.0

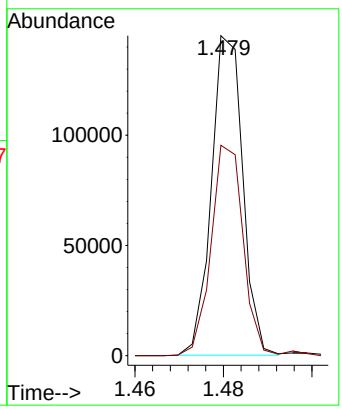




#9
Propene
Concen: 9.394 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 41 Resp: 7156

Ion	Ratio	Lower	Upper
41	100		
42	68.4	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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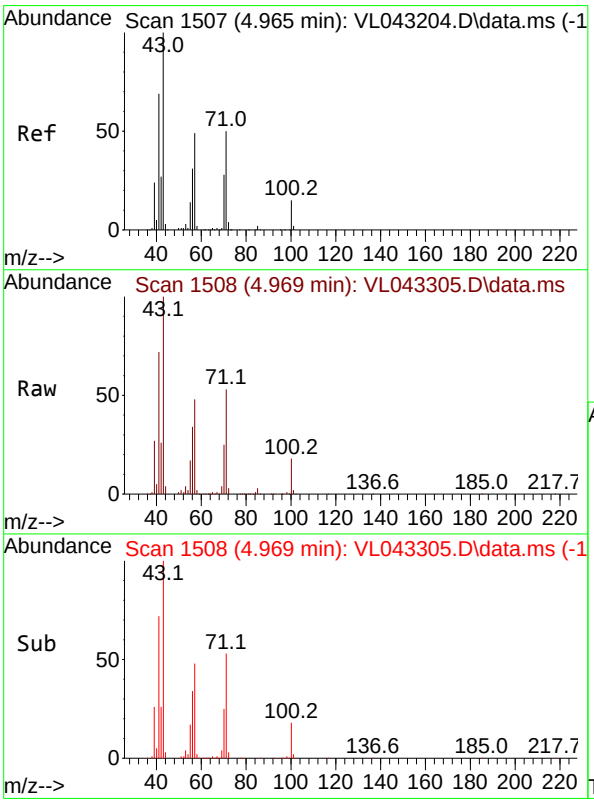
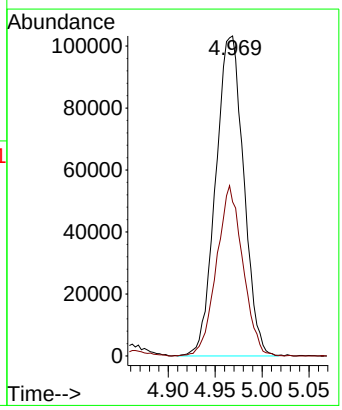
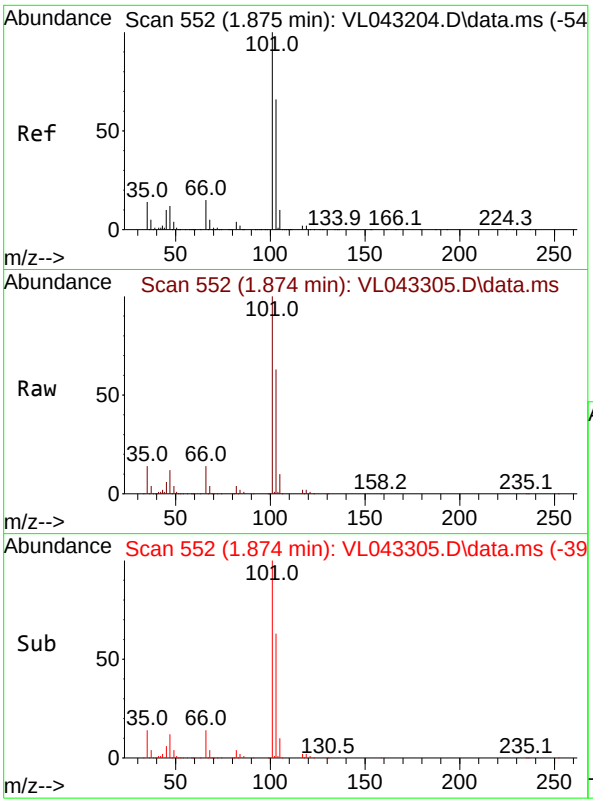


#10
Heptane
Concen: 9.444 ppbv
RT: 4.969 min Scan# 1508
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 43 Resp: 214107

Ion	Ratio	Lower	Upper
43	100		
57	50.0	39.7	59.5

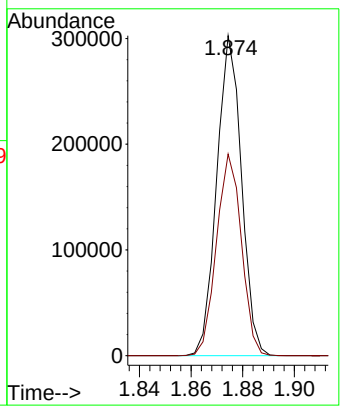




#11
Trichlorofluoromethane
Concen: 11.385 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:101 Resp: 20121

Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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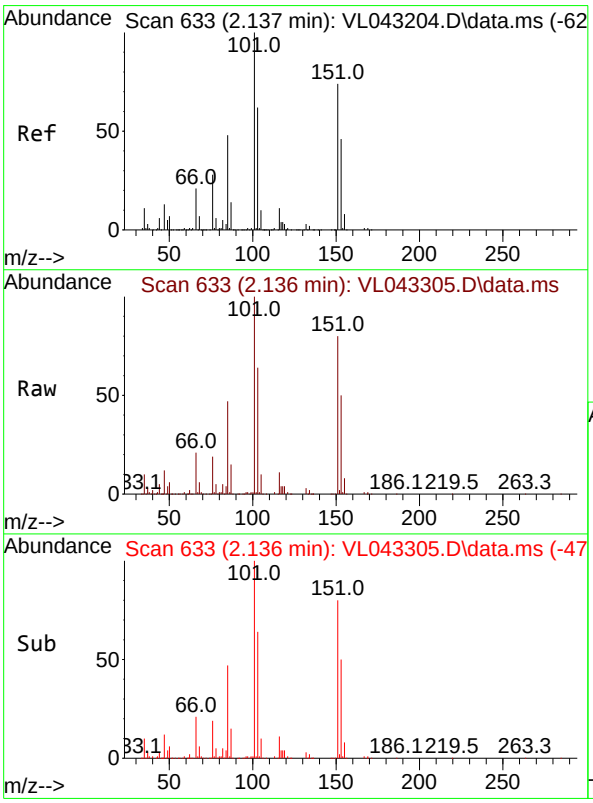
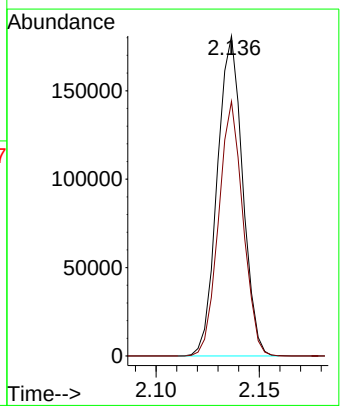
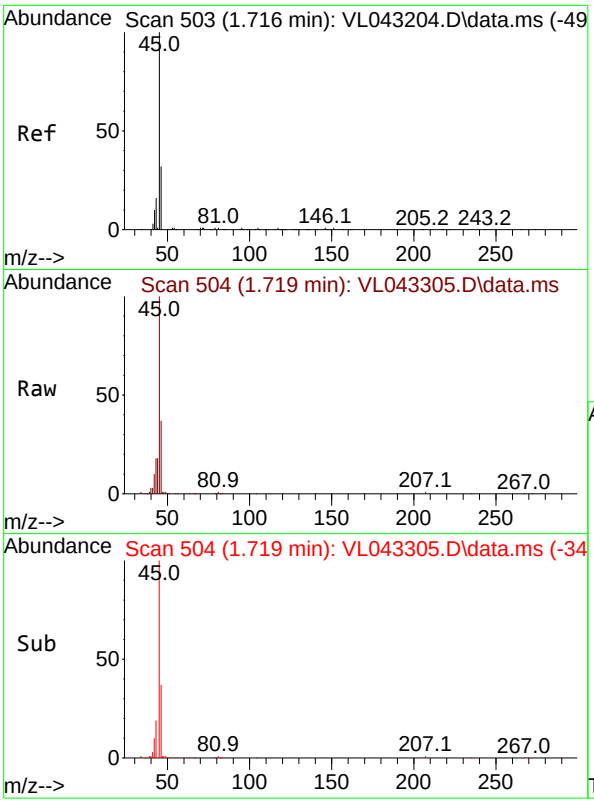


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.178 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:101 Resp: 154240

Ion	Ratio	Lower	Upper
101	100		
151	76.6	59.2	88.8

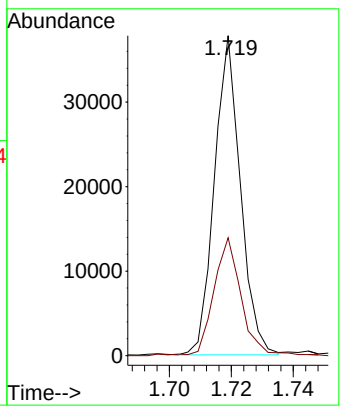




#13
Ethanol
Concen: 8.220 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 45 Resp: 2201

Ion	Ratio	Lower	Upper
45	100		
46	39.2	15.0	59.8



Instrument :
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ClientSampleId :
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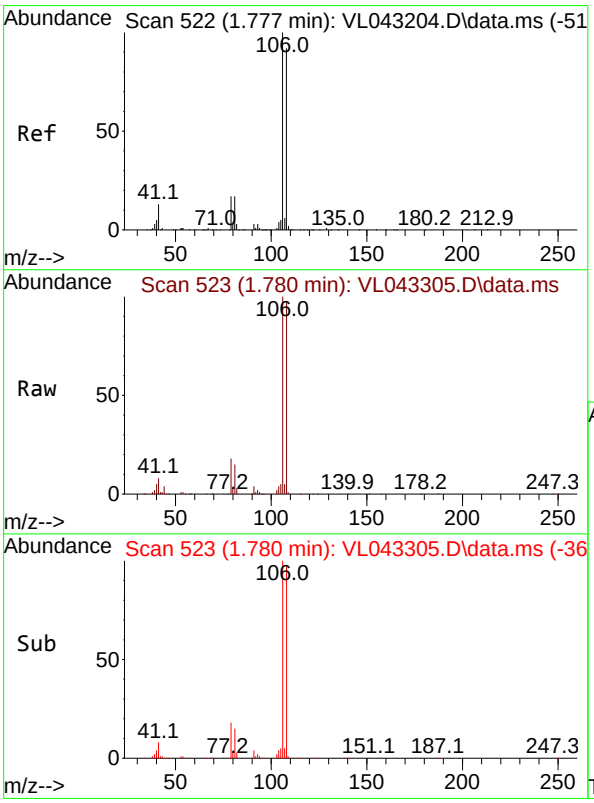
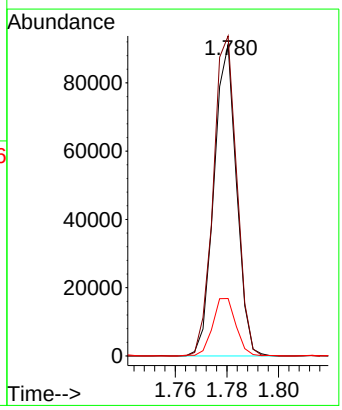
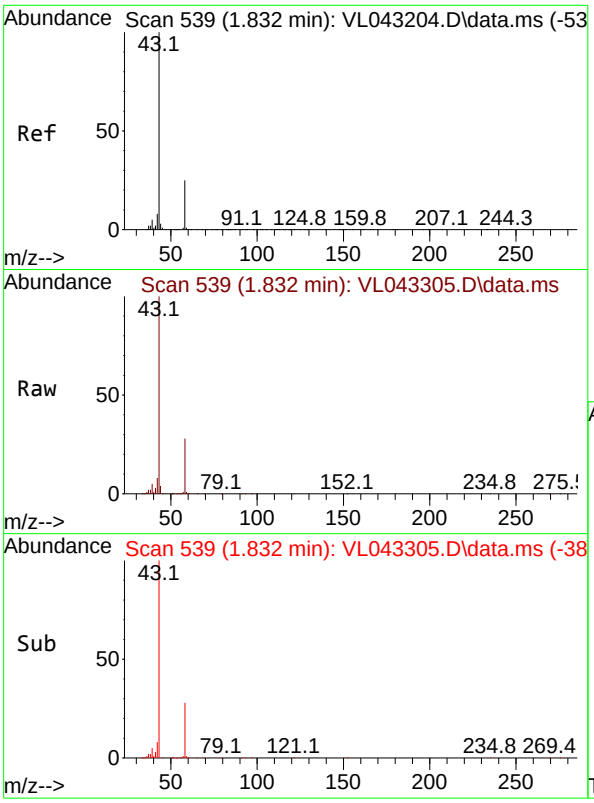


#14
Bromoethene
Concen: 10.465 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:108 Resp: 55354

Ion	Ratio	Lower	Upper
108	100		
106	106.7	88.9	133.3
79	19.4	16.5	24.7

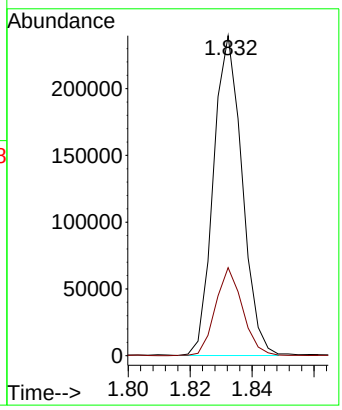




#15
Acetone
Concen: 8.581 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 43 Resp: 15419

Ion	Ratio	Lower	Upper
43	100		
58	26.2	20.7	31.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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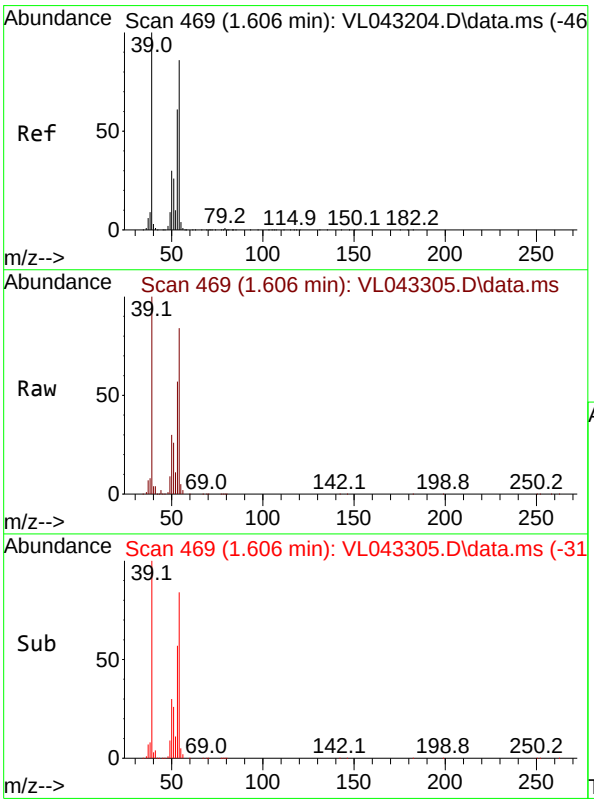
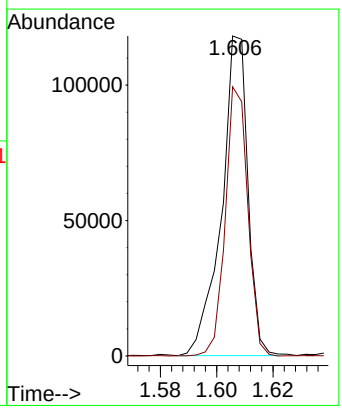
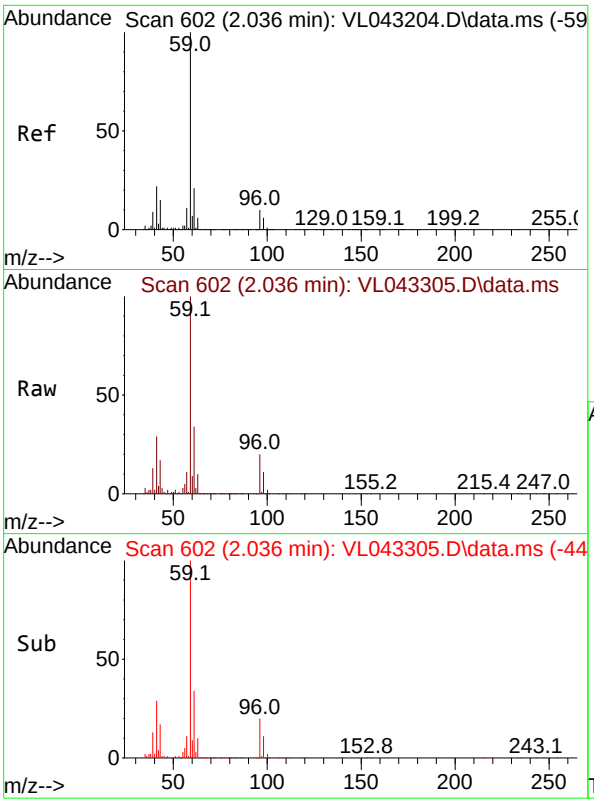


#16
1,3-Butadiene
Concen: 9.600 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 39 Resp: 76902

Ion	Ratio	Lower	Upper
39	100		
54	71.7	59.4	89.2

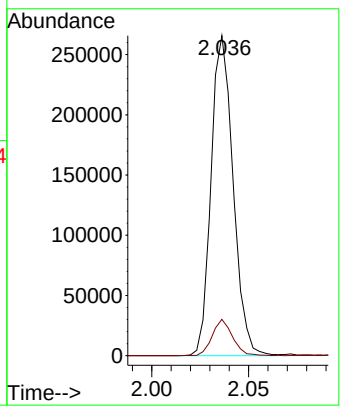




#17
tert-Butyl alcohol
Concen: 8.911 ppbv
RT: 2.036 min Scan# 6(
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 59 Resp: 21017(

Ion	Ratio	Lower	Upper
59	100		
57	10.5	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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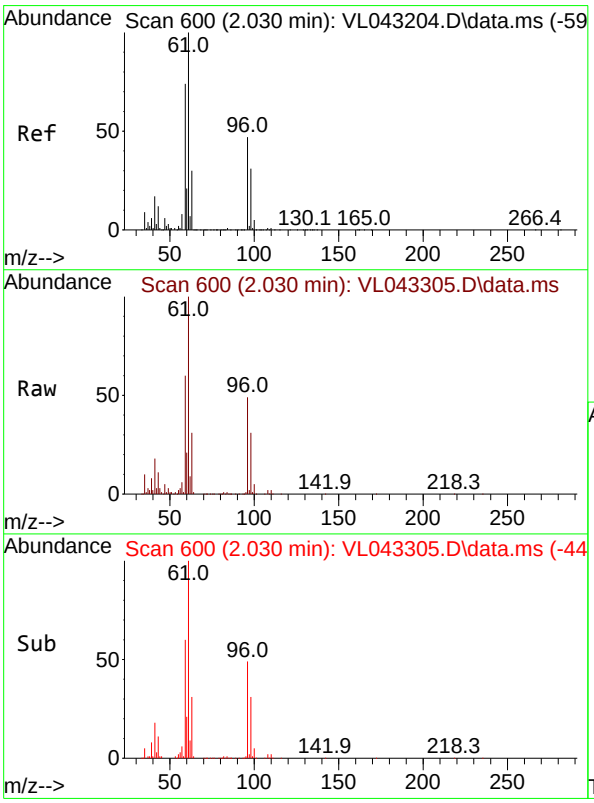
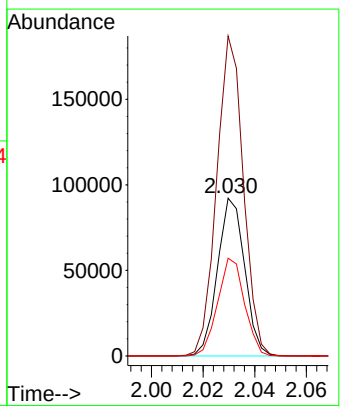
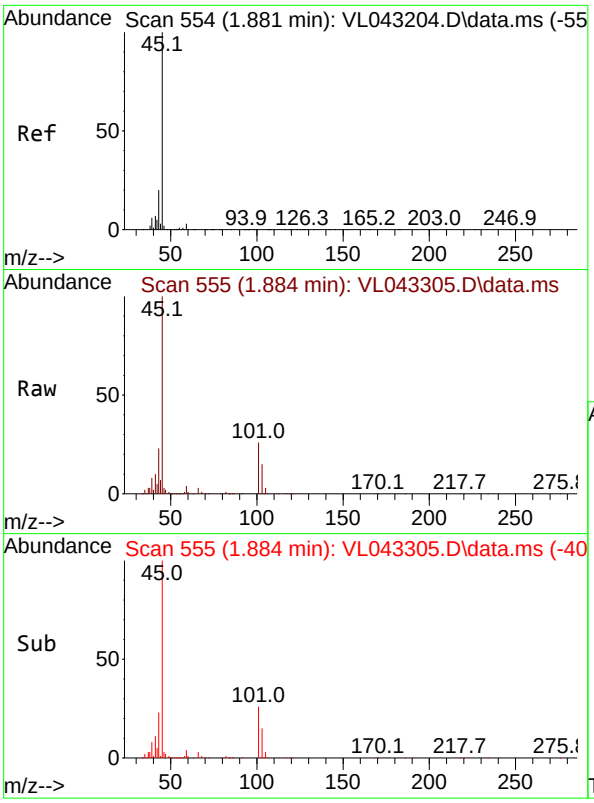


#18
1,1-Dichloroethene
Concen: 10.487 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 96 Resp: 67377

Ion	Ratio	Lower	Upper
96	100		
61	202.7	170.6	255.8
98	62.0	52.2	78.4

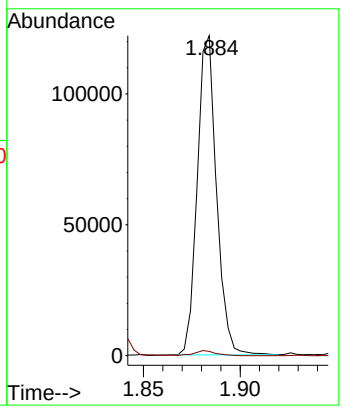




#19
Isopropyl Alcohol
Concen: 8.327 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 45 Resp: 8455

Ion	Ratio	Lower	Upper
45	100		
58	47.9	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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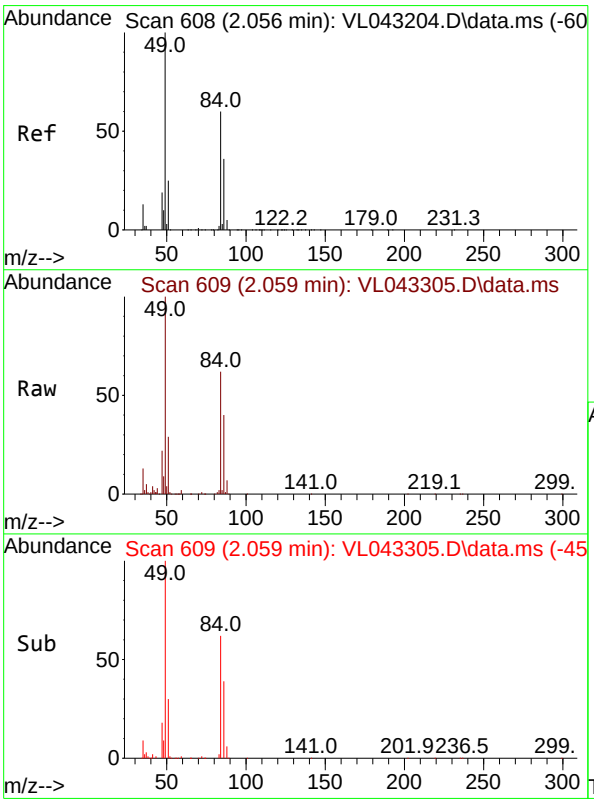
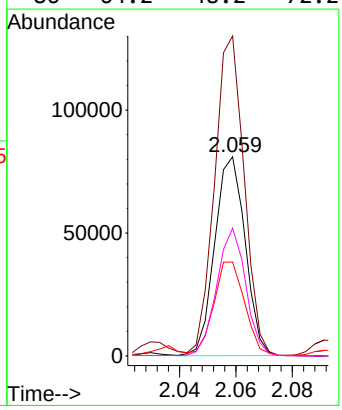
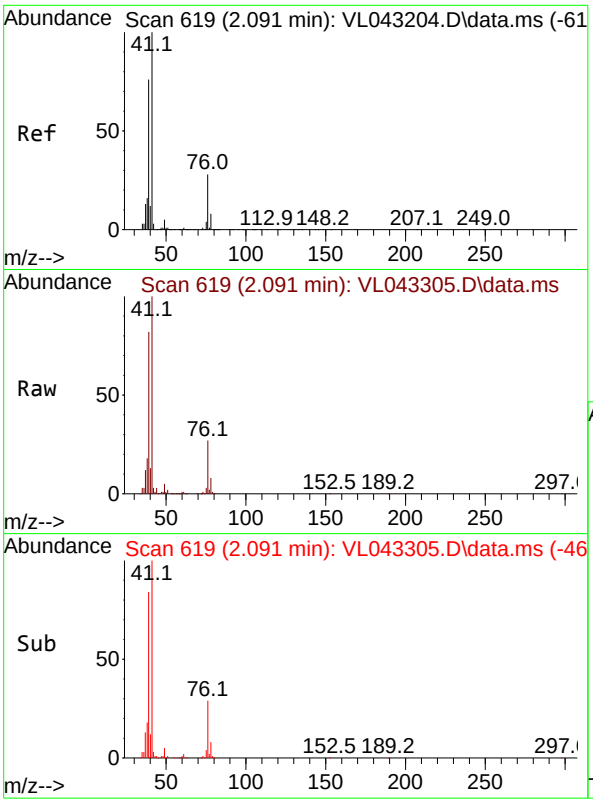


#20
Methylene Chloride
Concen: 11.604 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 84 Resp: 60771

Ion	Ratio	Lower	Upper
84	100		
49	160.8	132.9	199.3
51	47.0	34.8	52.2
86	64.2	48.2	72.2

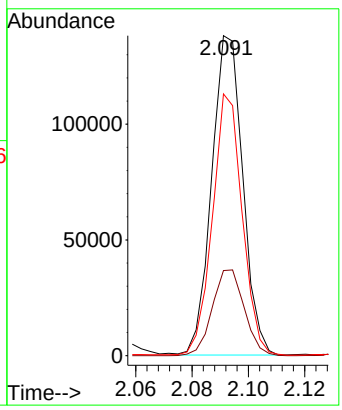




#21
Allyl Chloride
Concen: 8.756 ppbv
RT: 2.091 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 41 Resp: 10585

Ion	Ratio	Lower	Upper
41	100		
76	27.6	22.1	33.1
39	78.1	61.0	91.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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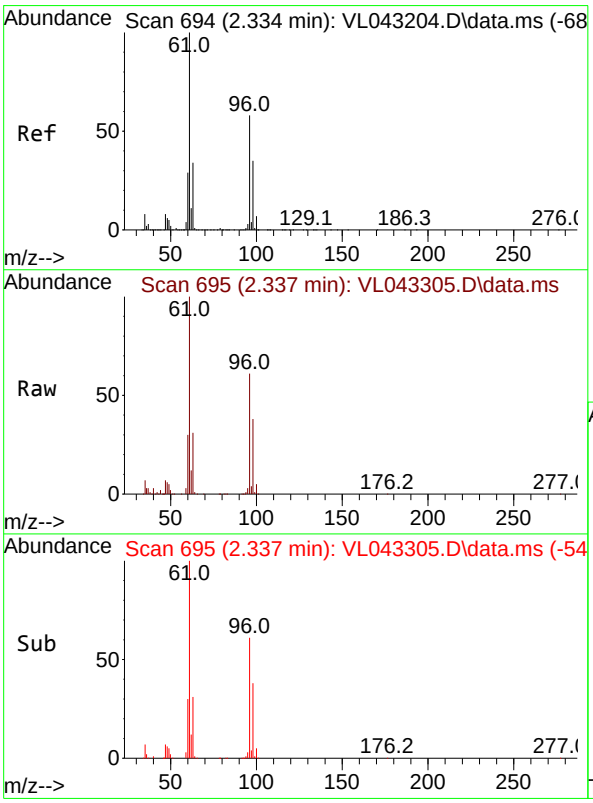
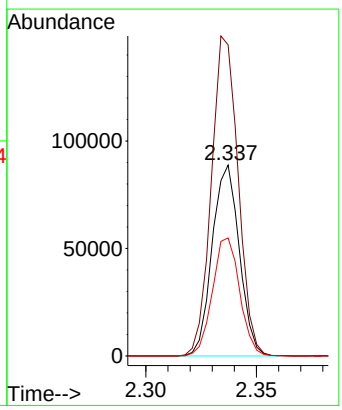
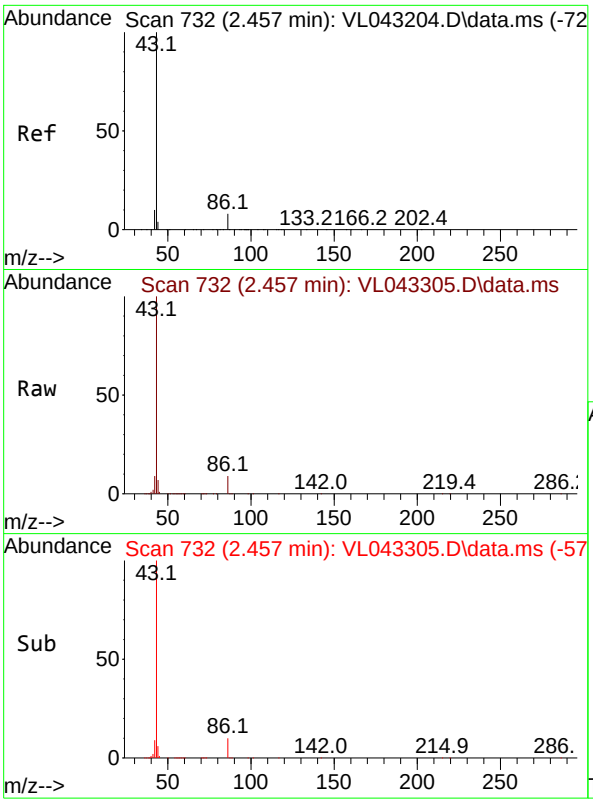


#22
trans-1,2-Dichloroethene
Concen: 10.291 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 96 Resp: 75565

Ion	Ratio	Lower	Upper
96	100		
61	163.0	139.0	208.6
98	61.8	49.4	74.2

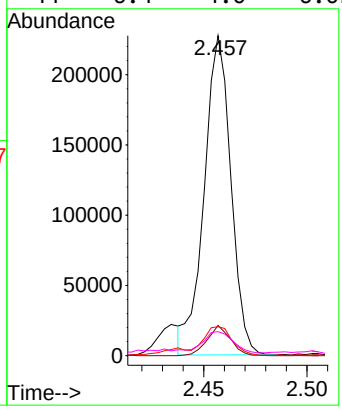




#23
Vinyl Acetate
Concen: 9.424 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 43 Resp: 20442

Ion	Ratio	Lower	Upper
43	100		
86	9.5	6.2	9.2#
42	8.6	8.0	12.0
44	6.4	4.0	6.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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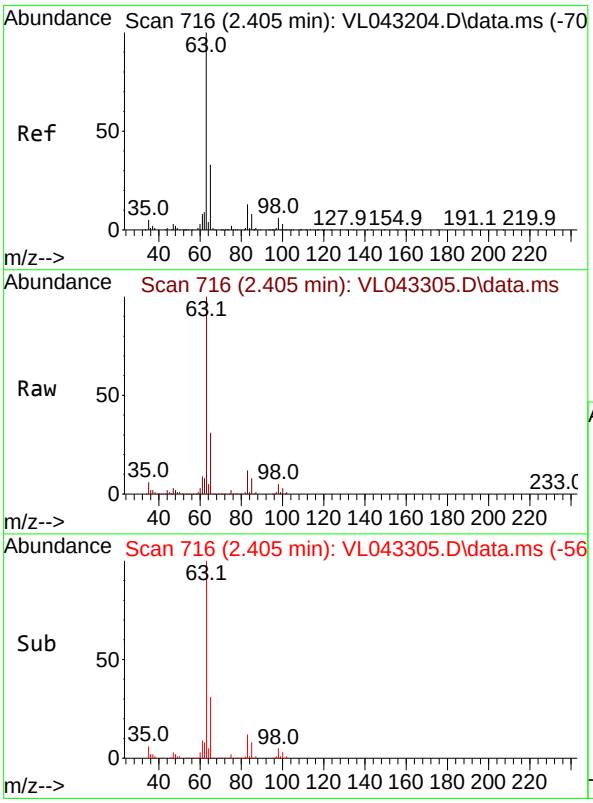
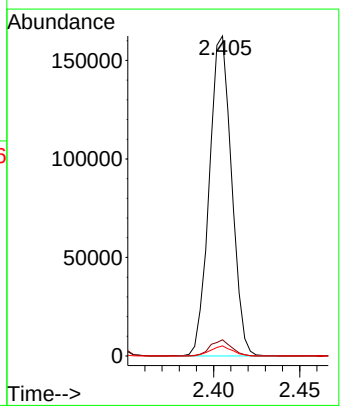
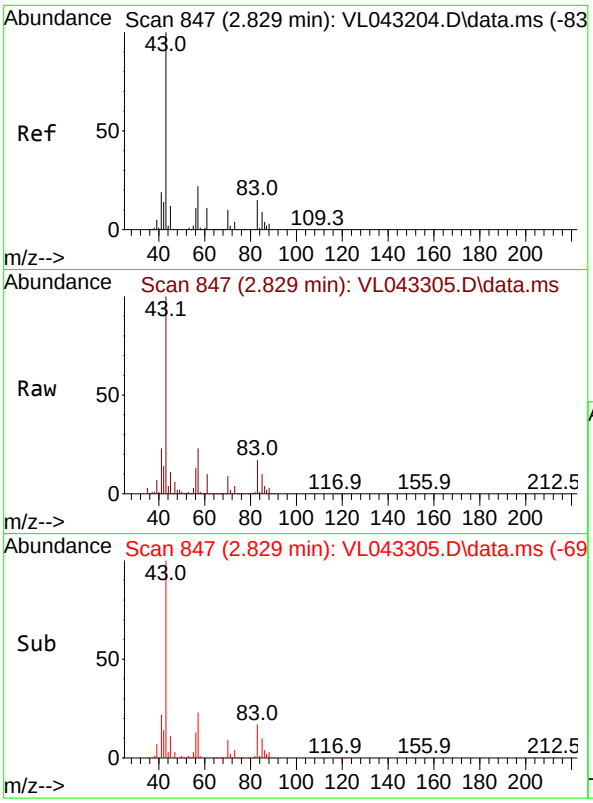


#24
1,1-Dichloroethane
Concen: 10.334 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 63 Resp: 146480

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.8	8.4
100	3.2	1.3	3.9

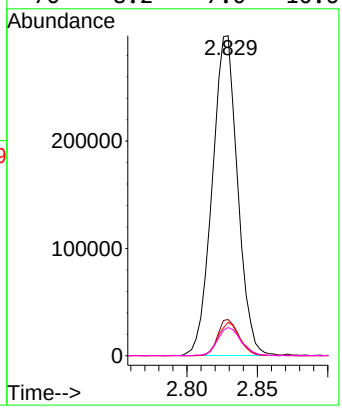




#25
Ethyl Acetate
Concen: 9.630 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 43 Resp: 37321(

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	8.8	7.0	10.4
70	8.2	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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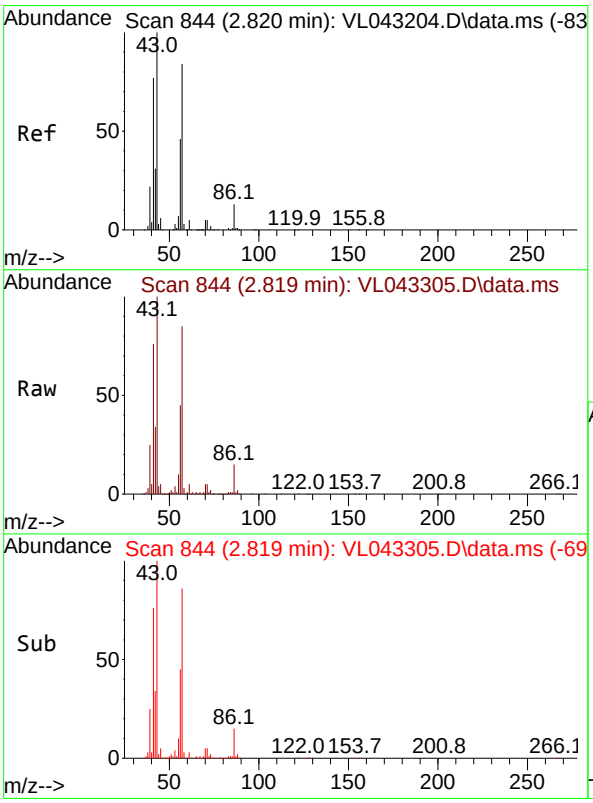
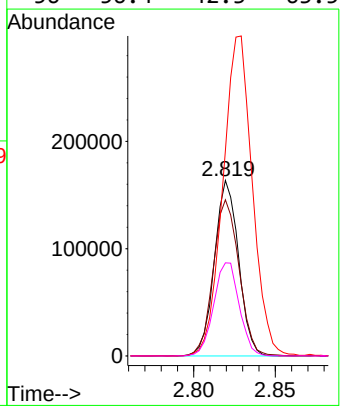
Supervised By :Mahesh Dadoda 12/11/2025

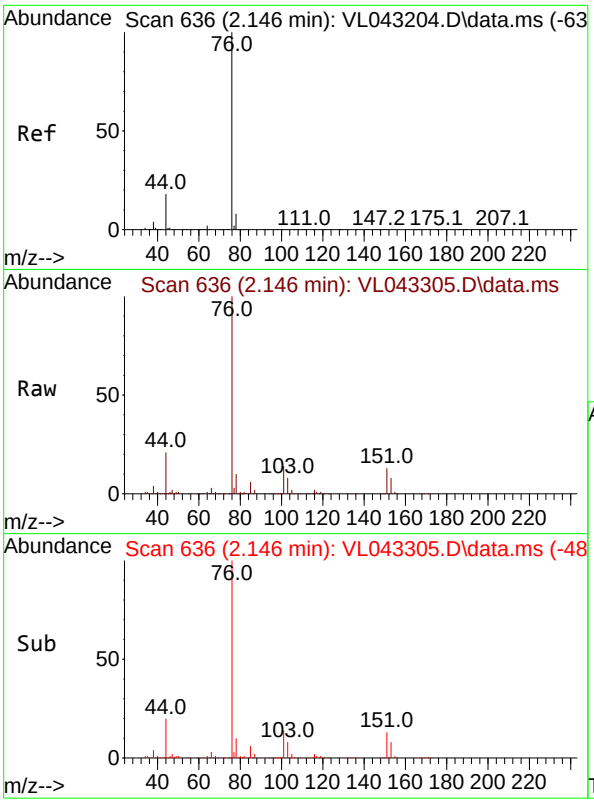


#26
Hexane
Concen: 9.897 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 57 Resp: 168150

Ion	Ratio	Lower	Upper
57	100		
41	95.7	74.6	111.8
43	222.8	179.0	268.4
56	56.4	42.3	63.5

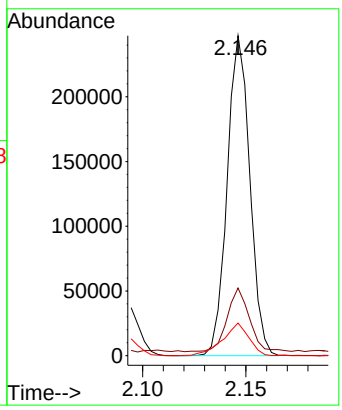




#27
Carbon Disulfide
Concen: 10.878 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 76 Resp: 18870

Ion	Ratio	Lower	Upper
76	100		
44	20.4	16.1	24.1
78	11.8	9.6	14.4



Instrument :
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ClientSampleId :
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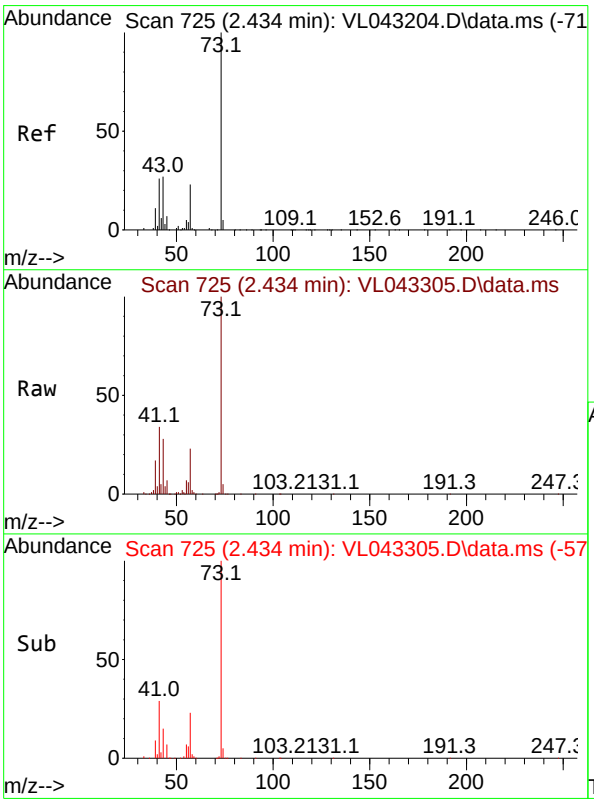
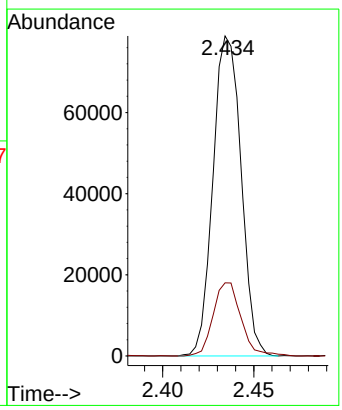
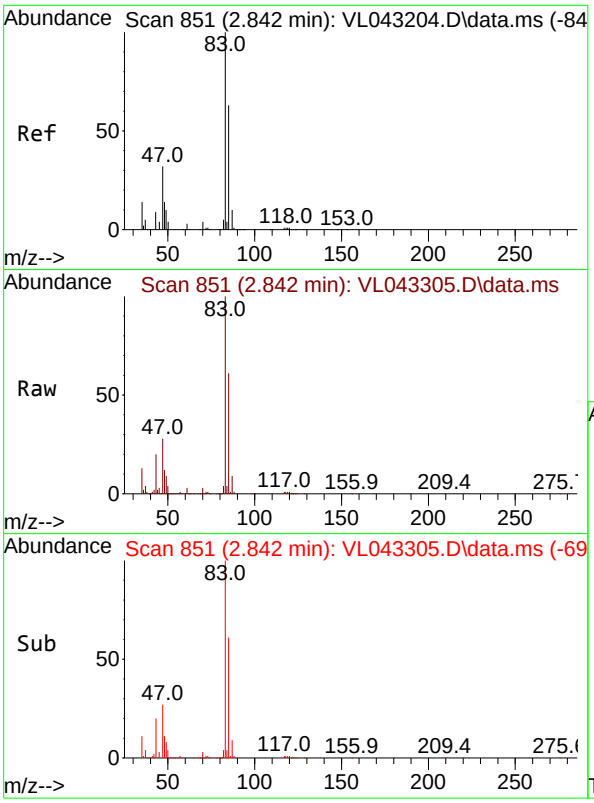


#28
Methyl tert-Butyl Ether
Concen: 10.142 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 73 Resp: 84588

Ion	Ratio	Lower	Upper
73	100		
57	22.7	19.8	29.8

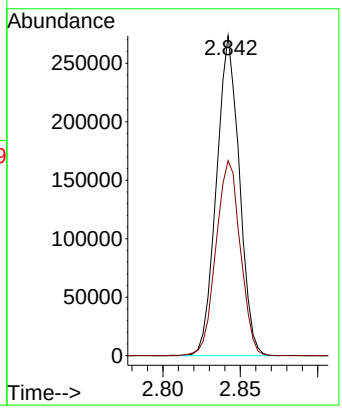




#29
Chloroform
Concen: 11.610 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 83 Resp: 28038

Ion	Ratio	Lower	Upper
83	100		
85	60.9	50.5	75.7



Instrument :
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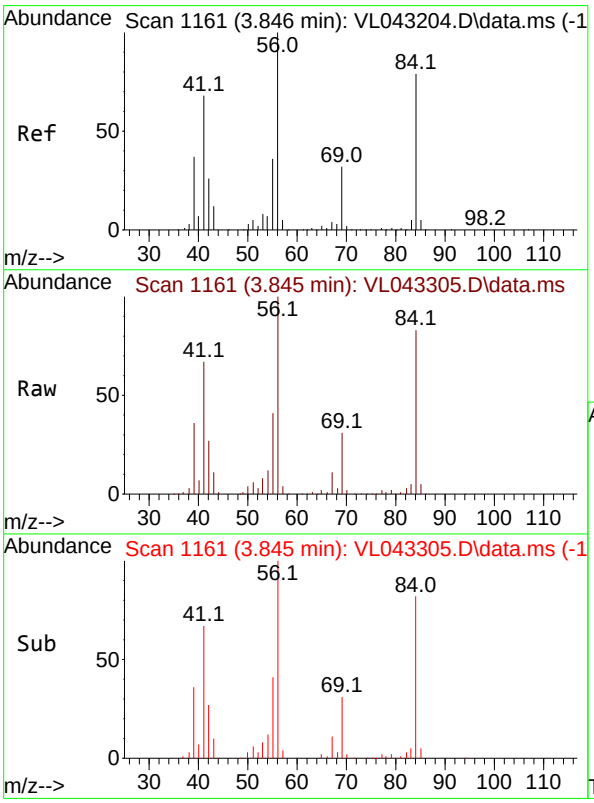
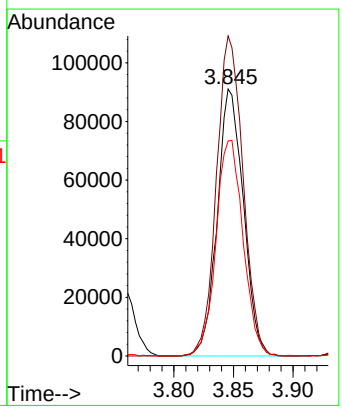
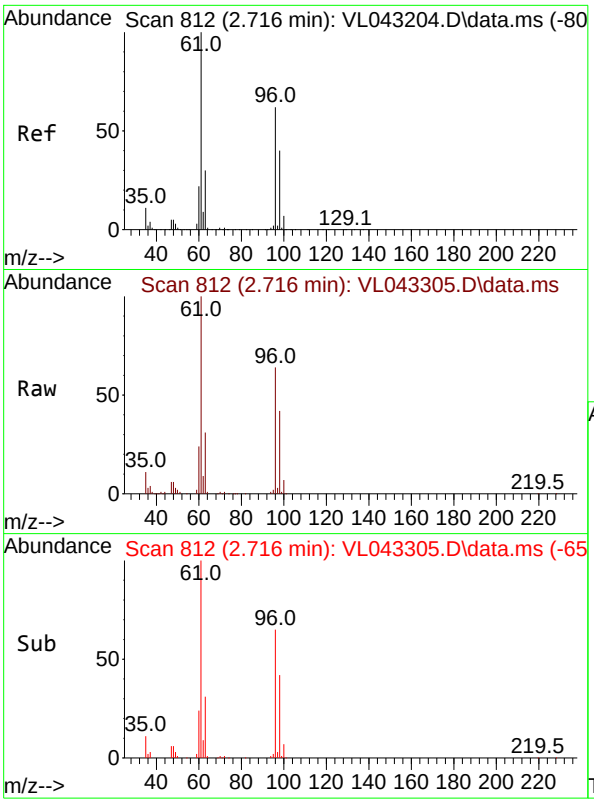


#30
Cyclohexane
Concen: 9.731 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 84 Resp: 138616

Ion	Ratio	Lower	Upper
84	100		
56	121.7	104.7	157.1
41	84.0	69.0	103.6

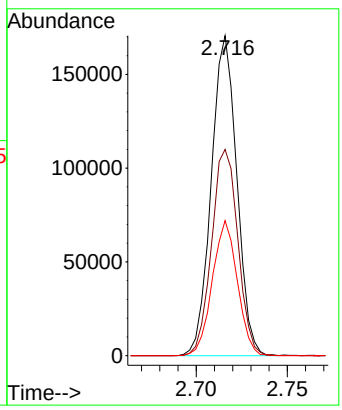




#31
cis-1,2-Dichloroethene
Concen: 9.853 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 61 Resp: 16639

Ion	Ratio	Lower	Upper
61	100		
96	64.4	49.3	73.9
98	42.2	32.1	48.1



Instrument :
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ClientSampleId :
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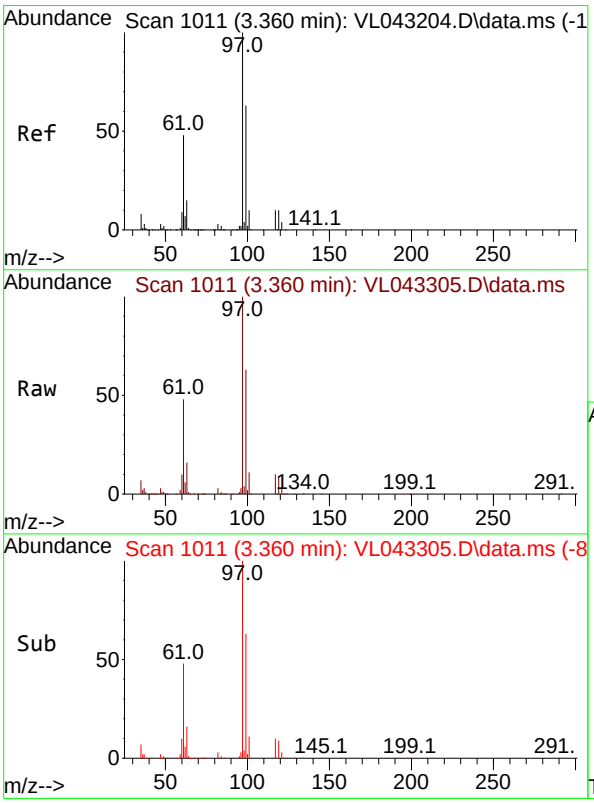
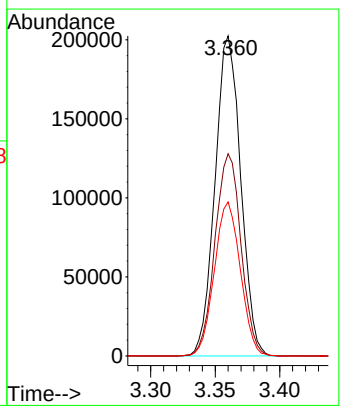
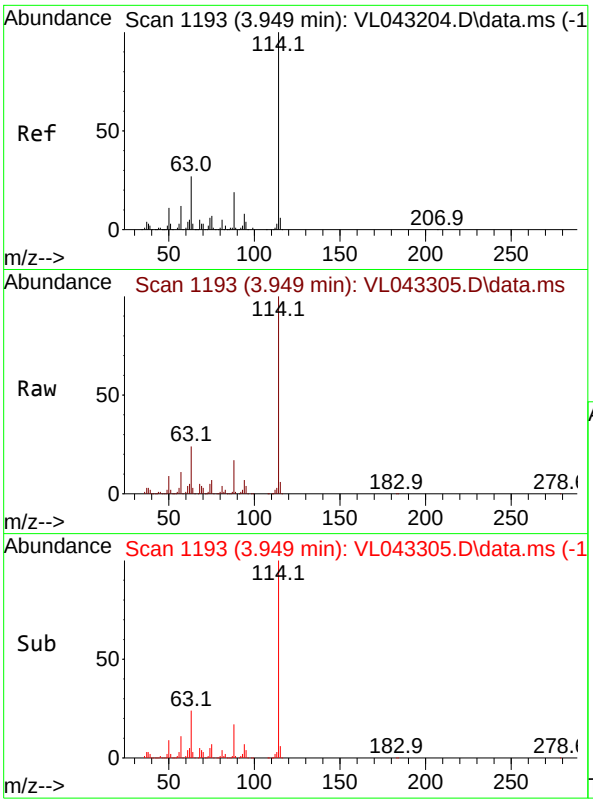


#32
1,1,1-Trichloroethane
Concen: 10.886 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 97 Resp: 280239

Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.3	75.5
61	48.7	38.9	58.3

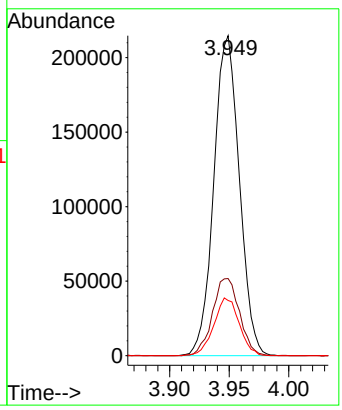




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:114 Resp: 31980

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.0	31.6
88	18.0	14.9	22.3



Instrument :
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ClientSampleId :
VSTDCCC010

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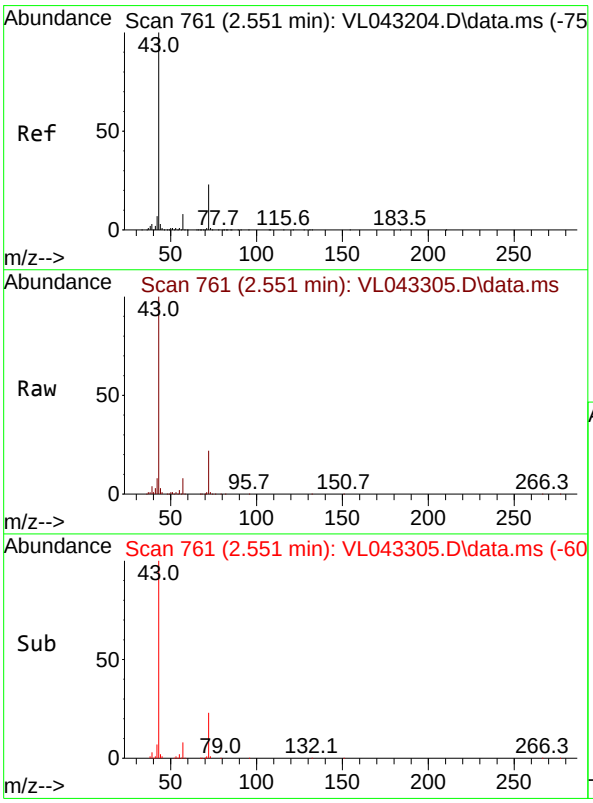
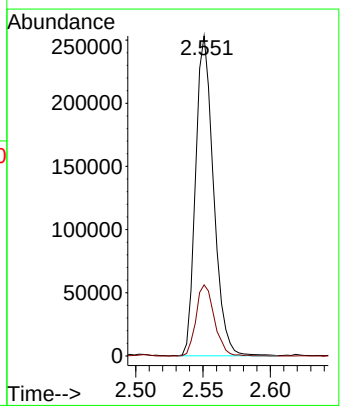
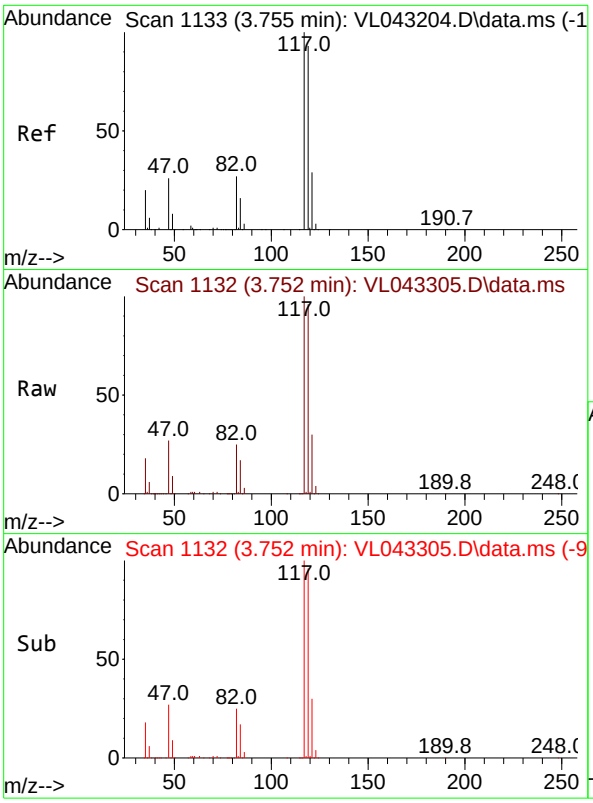


#34
2-Butanone
Concen: 10.392 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 43 Resp: 234600

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.1	27.1

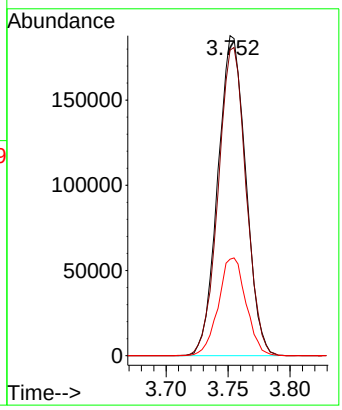




#35
Carbon Tetrachloride
Concen: 12.149 ppbv
RT: 3.752 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:117 Resp: 29490

Ion	Ratio	Lower	Upper
117	100		
119	95.5	74.6	112.0
121	30.1	23.2	34.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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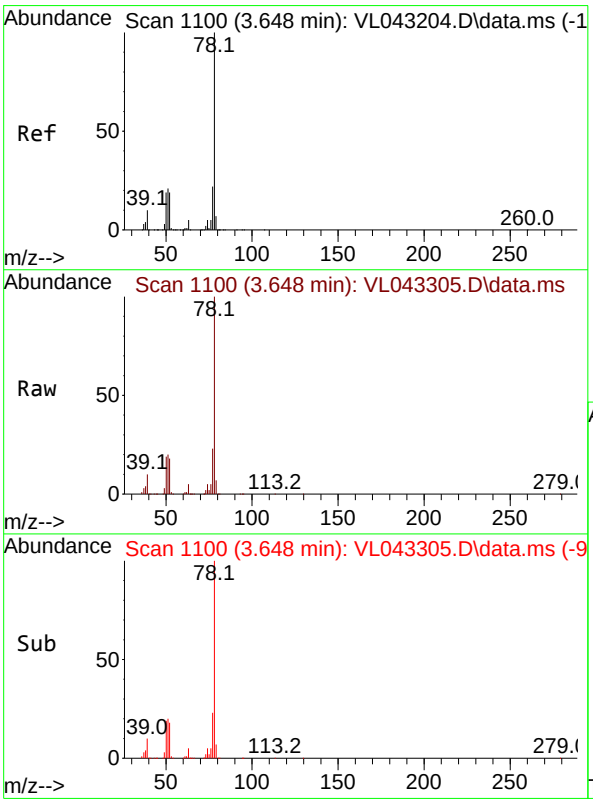
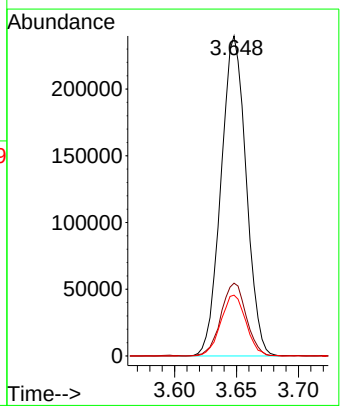
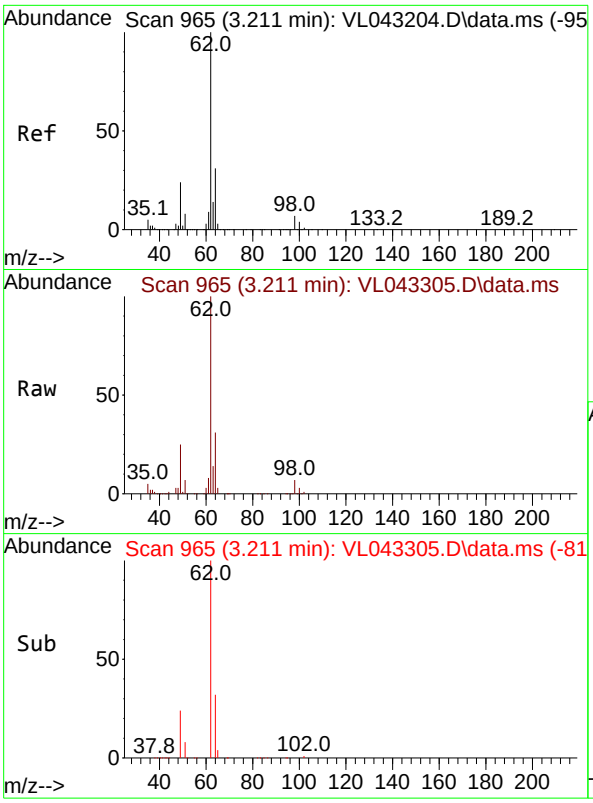


#36
Benzene
Concen: 11.074 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 78 Resp: 339149

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.5	26.3
50	19.0	15.5	23.3

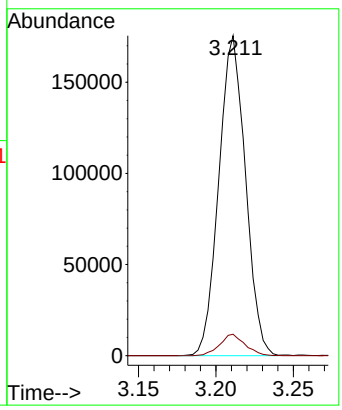




#37
1,2-Dichloroethane
Concen: 11.721 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 62 Resp: 20997

Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.5	8.3



Instrument :
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ClientSampleId :
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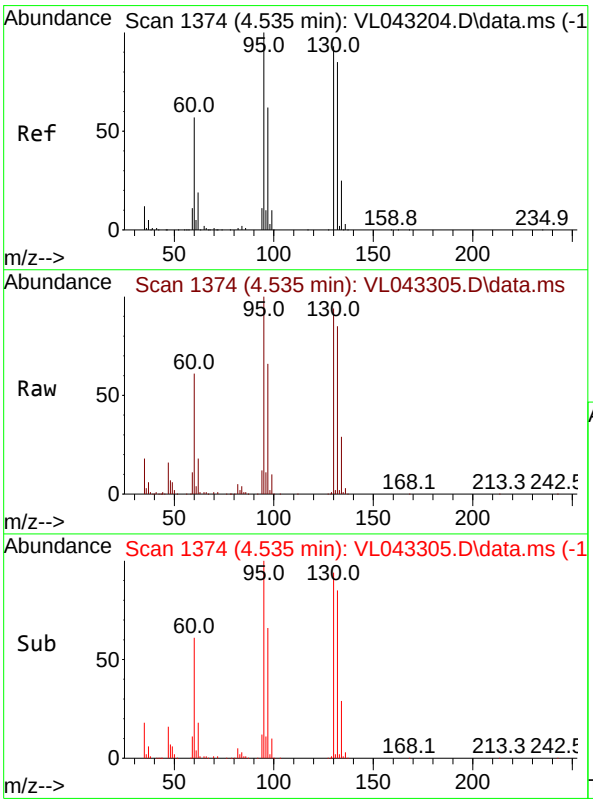
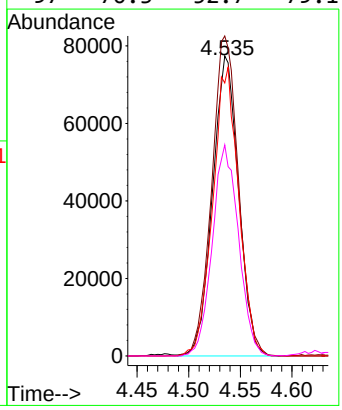
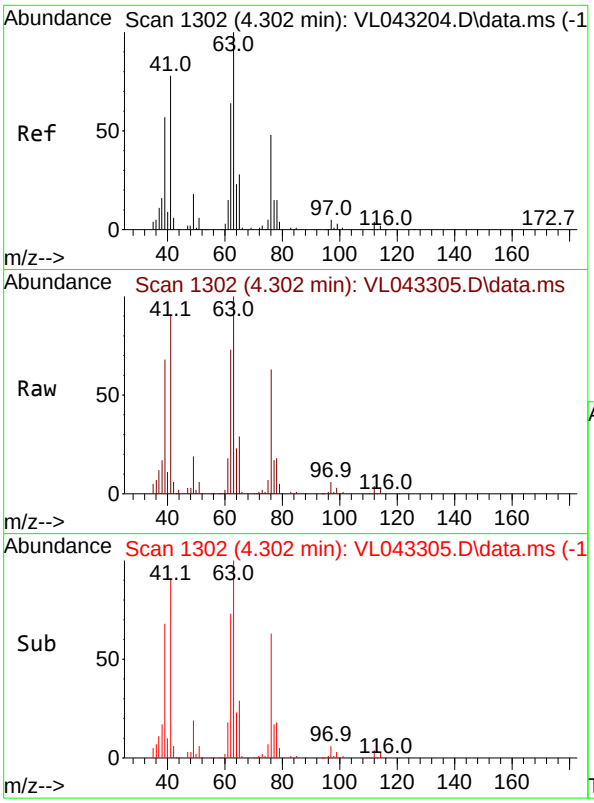


#38
Trichloroethene
Concen: 11.309 ppbv
RT: 4.535 min Scan# 1374
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:130 Resp: 135509

Ion	Ratio	Lower	Upper
130	100		
95	106.7	85.7	128.5
132	90.9	73.4	110.0
97	70.3	52.7	79.1

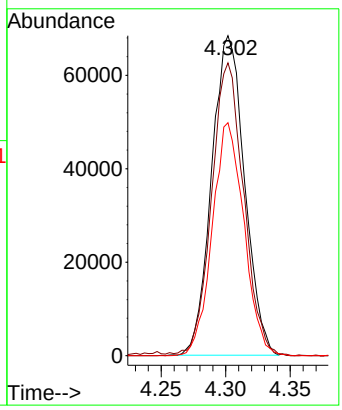




#39
1,2-Dichloropropane
Concen: 10.827 ppbv
RT: 4.302 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 63 Resp: 12136

Ion	Ratio	Lower	Upper
63	100		
41	91.0	62.6	93.8
62	72.5	51.0	76.6



Instrument :
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ClientSampleId :
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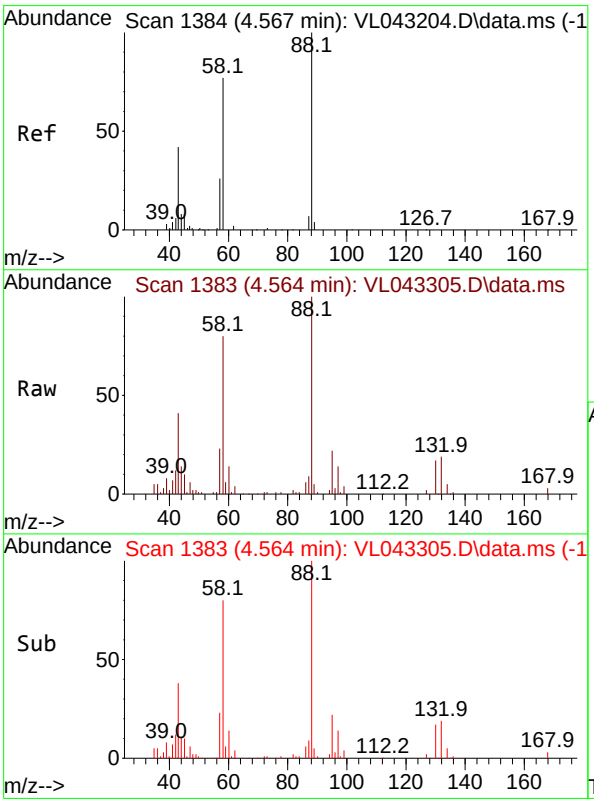
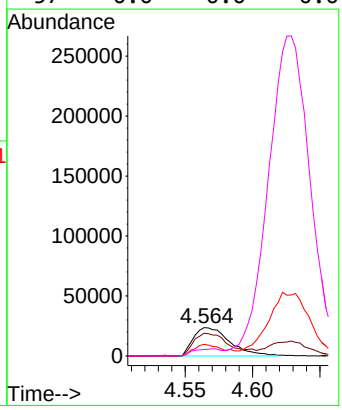
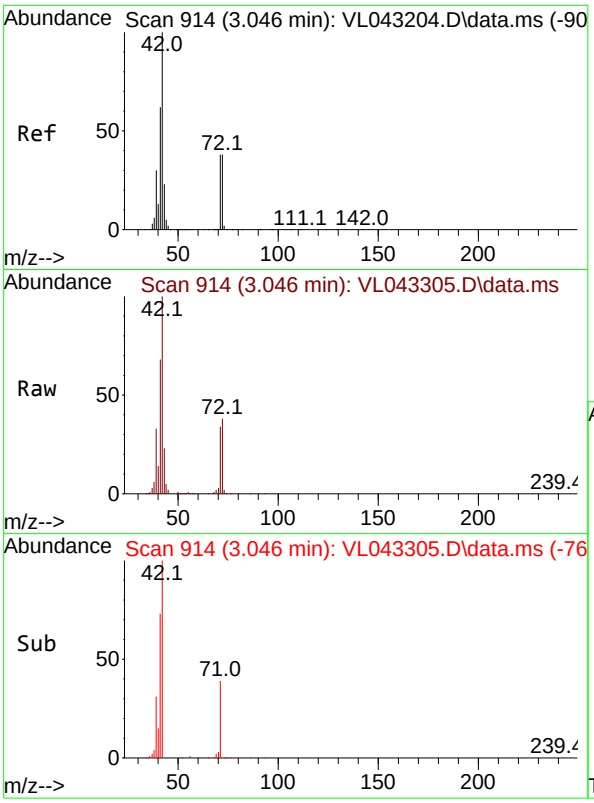


#40
1,4-Dioxane
Concen: 8.836 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 88 Resp: 44522

Ion	Ratio	Lower	Upper
88	100		
58	80.4	63.0	94.6
43	38.4	32.5	48.7
57	0.0	0.0	0.0

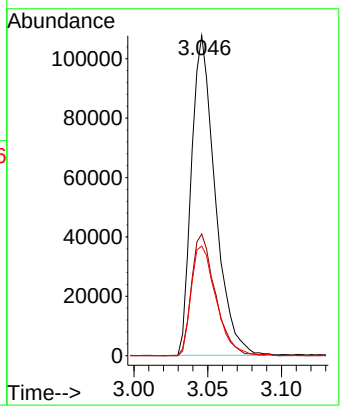




#41
Tetrahydrofuran
Concen: 9.628 ppbv
RT: 3.046 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 42 Resp: 12002

Ion	Ratio	Lower	Upper
42	100		
72	38.4	30.6	46.0
71	36.1	30.5	45.7



Instrument :
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ClientSampleId :
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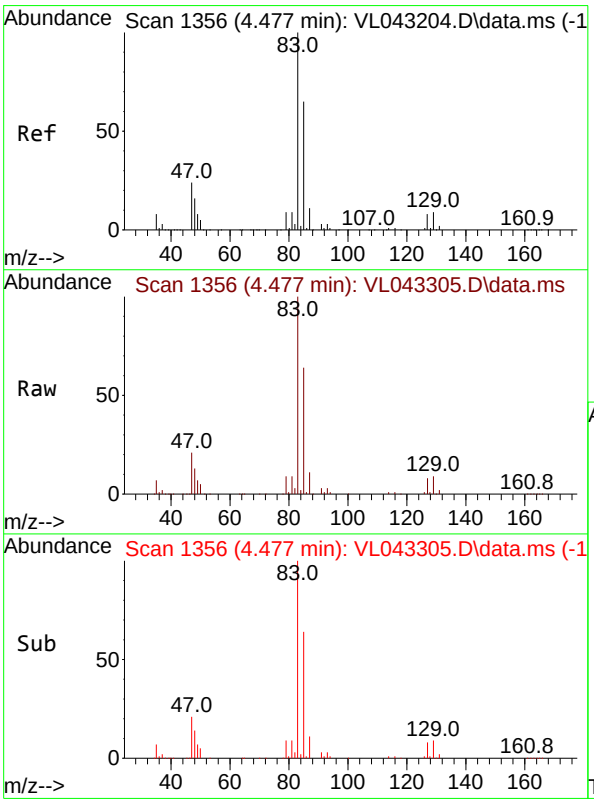
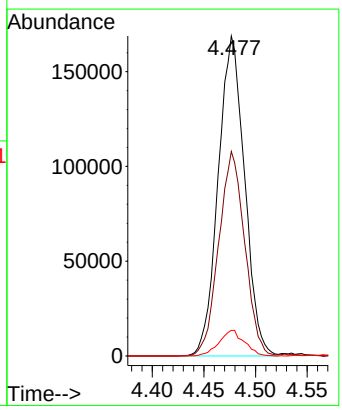
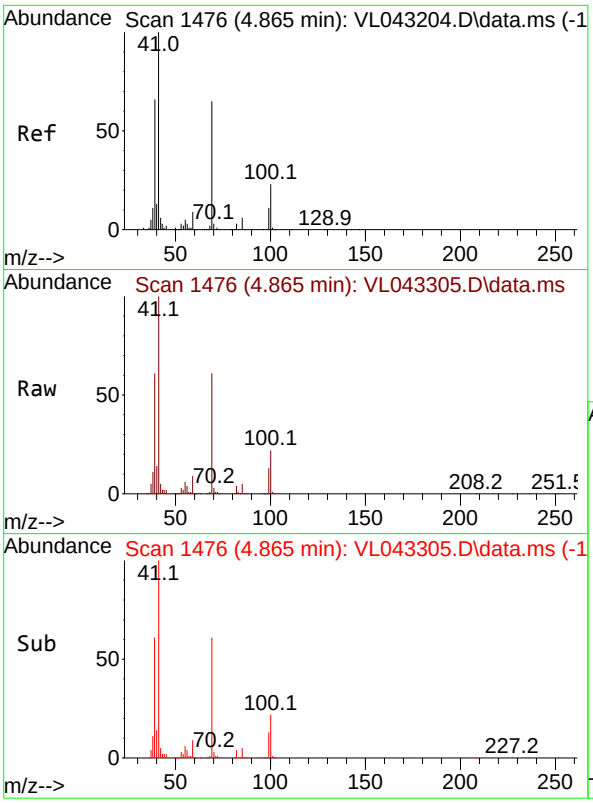


#42
Bromodichloromethane
Concen: 12.136 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 83 Resp: 299904

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.7	77.5
127	8.0	6.3	9.5

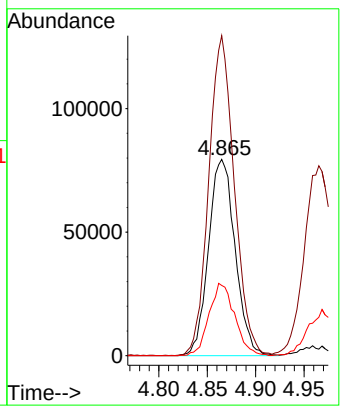




#43
Methyl Methacrylate
Concen: 9.361 ppbv
RT: 4.865 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 69 Resp: 15217

Ion	Ratio	Lower	Upper
69	100		
41	155.9	126.7	190.1
100	35.6	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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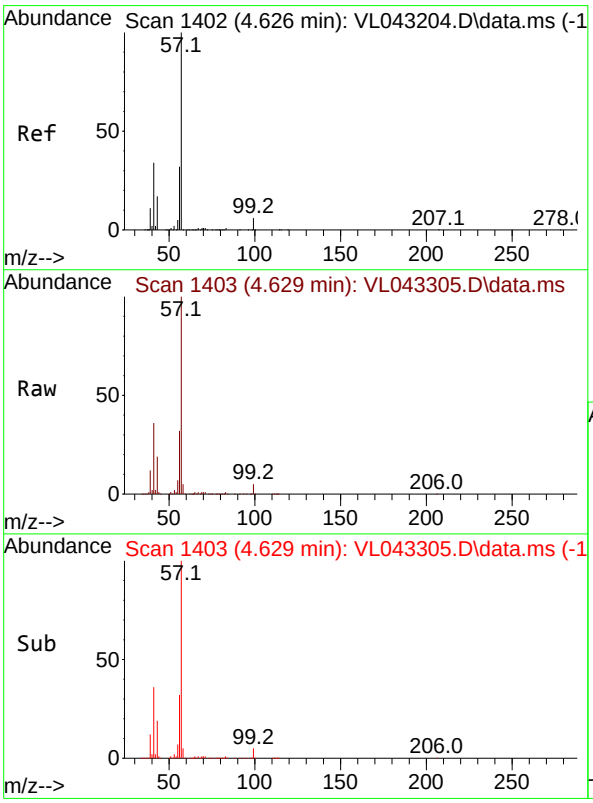
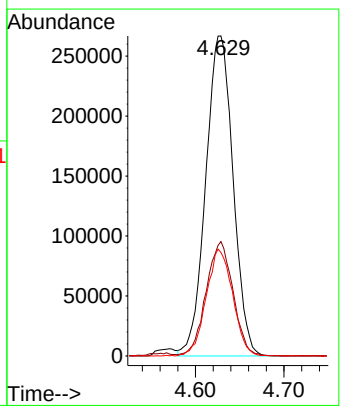
Supervised By :Mahesh Dadoda 12/11/2025

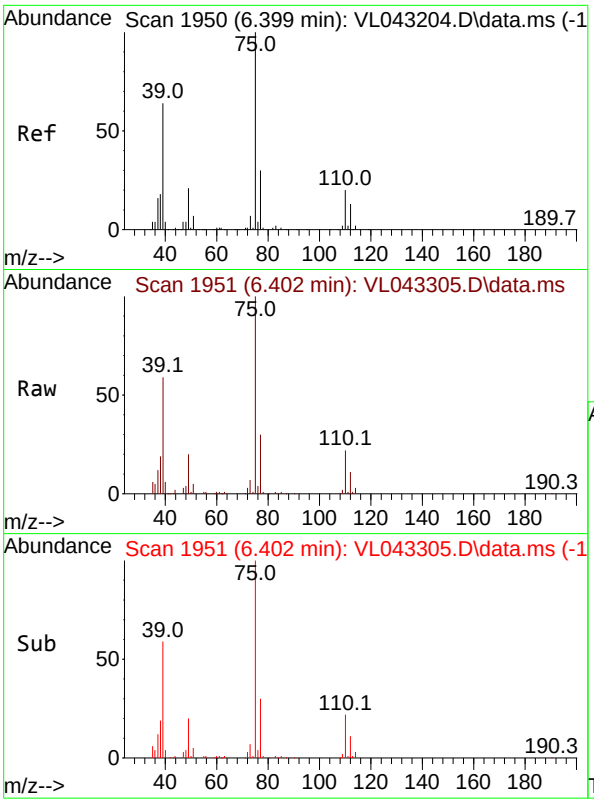


#44
2,2,4-Trimethylpentane
Concen: 10.909 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 57 Resp: 573790

Ion	Ratio	Lower	Upper
57	100		
41	36.1	28.0	42.0
56	32.4	25.6	38.4

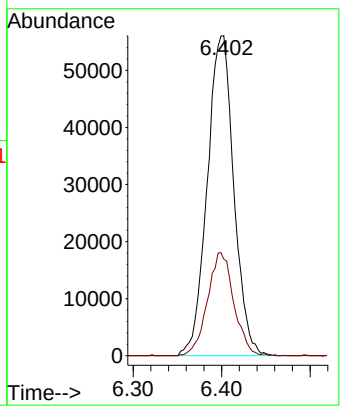




#45
t-1,3-Dichloropropene
Concen: 7.729 ppbv
RT: 6.402 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 75 Resp: 11712

Ion	Ratio	Lower	Upper
75	100		
77	30.1	24.3	36.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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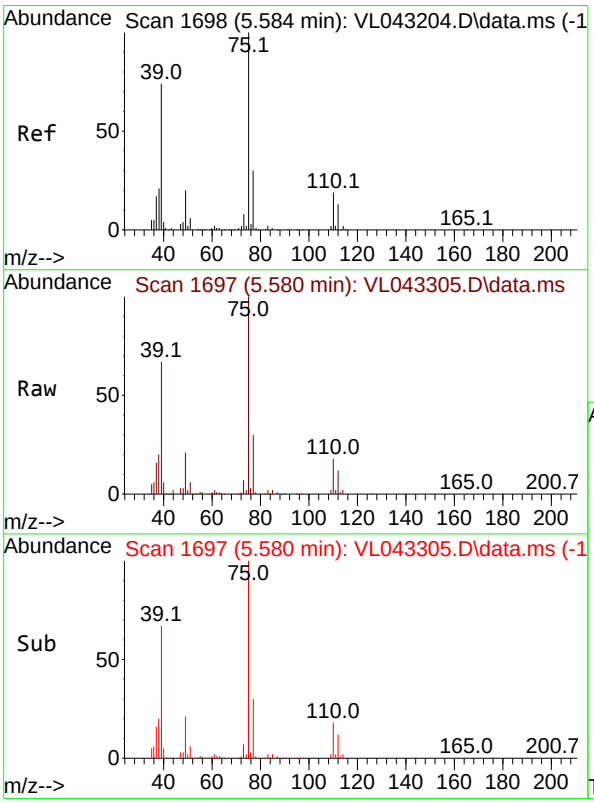
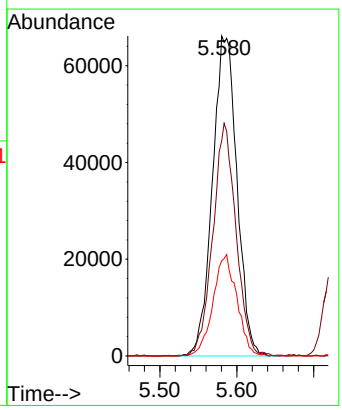
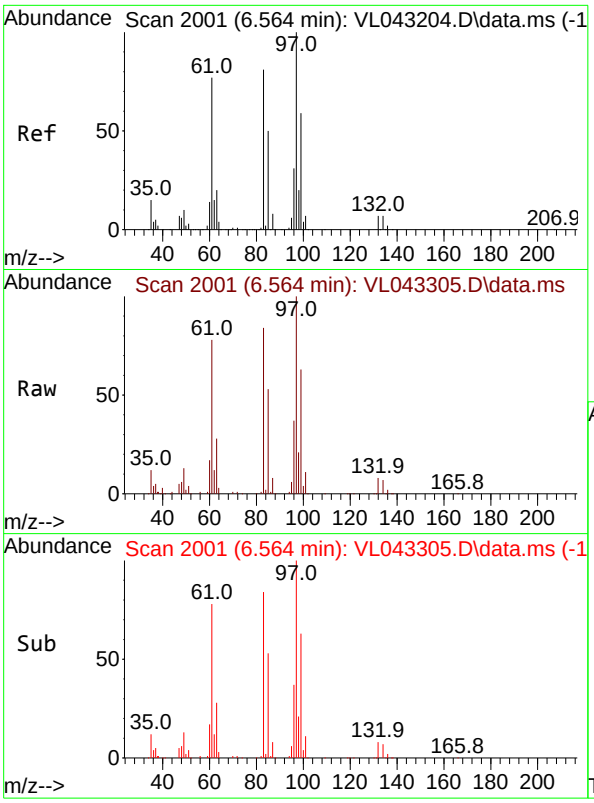


#46
cis-1,3-Dichloropropene
Concen: 8.219 ppbv m
RT: 5.580 min Scan# 1697
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 75 Resp: 146255

Ion	Ratio	Lower	Upper
75	100		
39	67.3	59.1	88.7
77	29.8	24.2	36.2

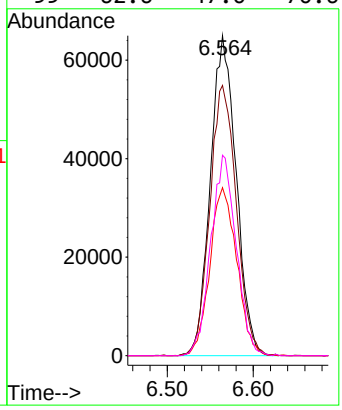




#47
1,1,2-Trichloroethane
Concen: 11.381 ppbv
RT: 6.564 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 97 Resp: 13538

Ion	Ratio	Lower	Upper
97	100		
83	84.4	64.6	97.0
85	52.5	39.4	59.2
99	62.6	47.0	70.6



Instrument :
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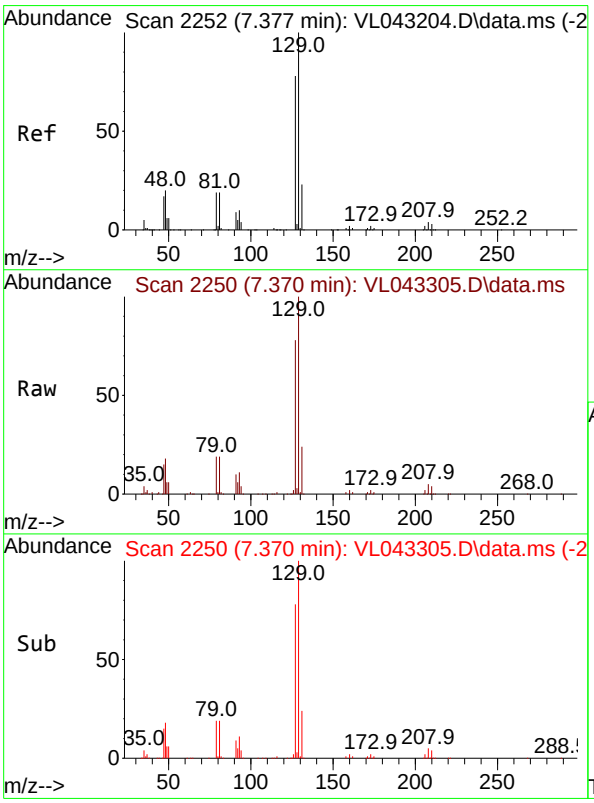
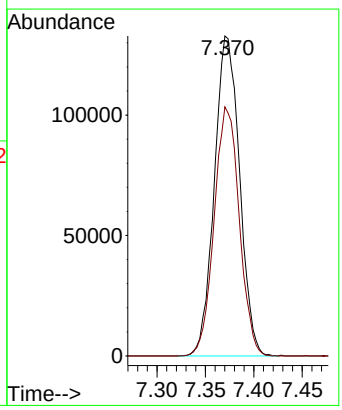
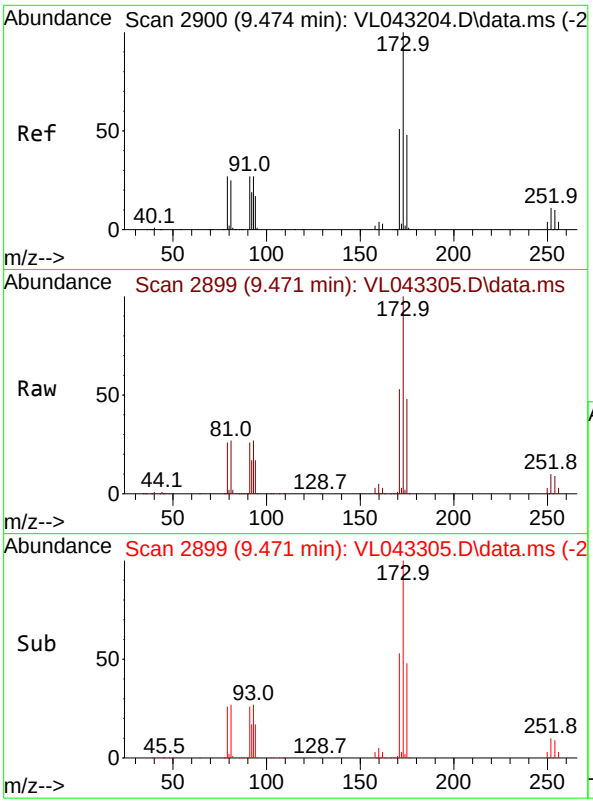


#48
Dibromochloromethane
Concen: 11.753 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. -0.007 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:129 Resp: 240386

Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.3	117.9

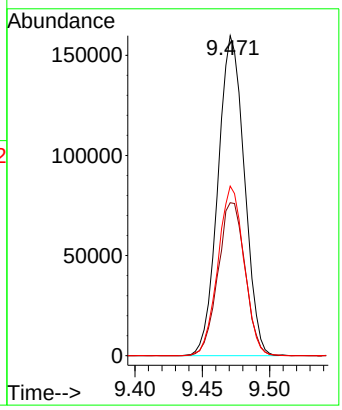




#49
Bromoform
Concen: 12.018 ppbv
RT: 9.471 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:173 Resp: 21771

Ion	Ratio	Lower	Upper
173	100		
175	49.1	38.6	58.0
171	52.5	40.6	61.0



Instrument :
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ClientSampleId :
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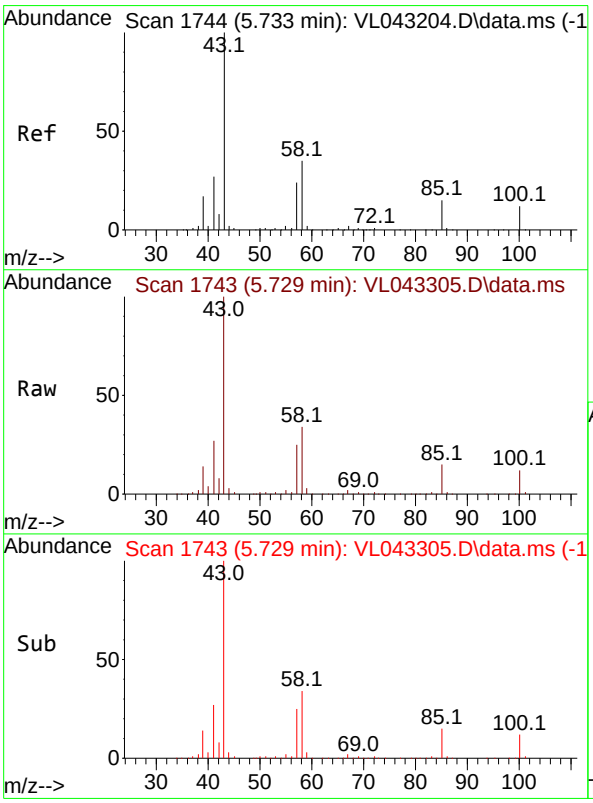
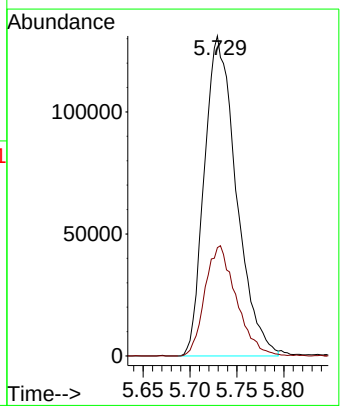
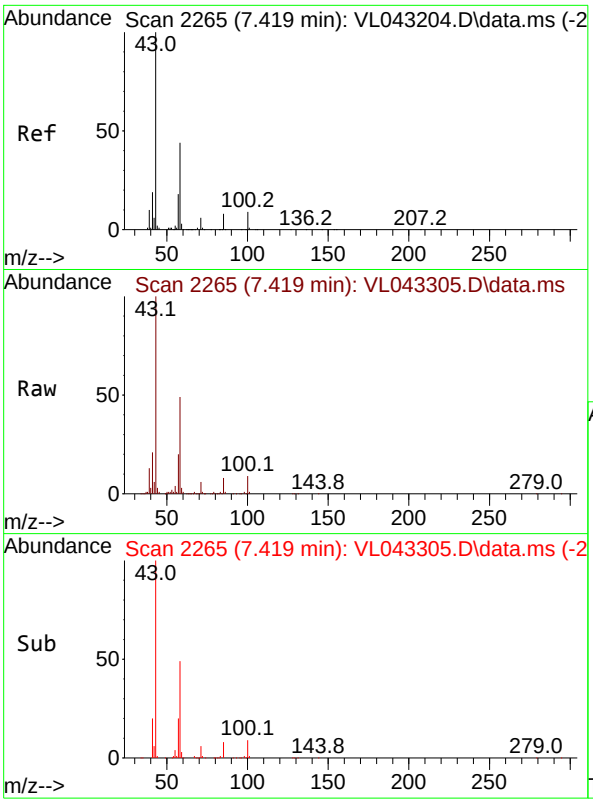


#50
4-Methyl-2-Pentanone
Concen: 9.749 ppbv
RT: 5.729 min Scan# 1743
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 43 Resp: 310023

Ion	Ratio	Lower	Upper
43	100		
58	34.0	28.4	42.6

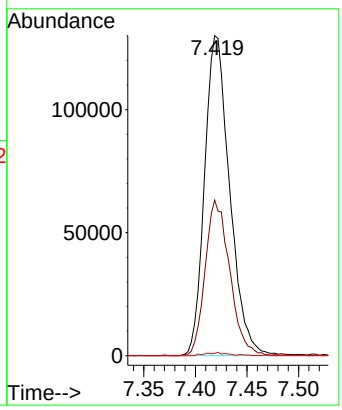




#51
2-Hexanone
Concen: 8.905 ppbv
RT: 7.419 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 43 Resp: 21990

Ion	Ratio	Lower	Upper
43	100		
58	47.6	38.4	57.6
98	1.0	0.0	0.0



Instrument :
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ClientSampleId :
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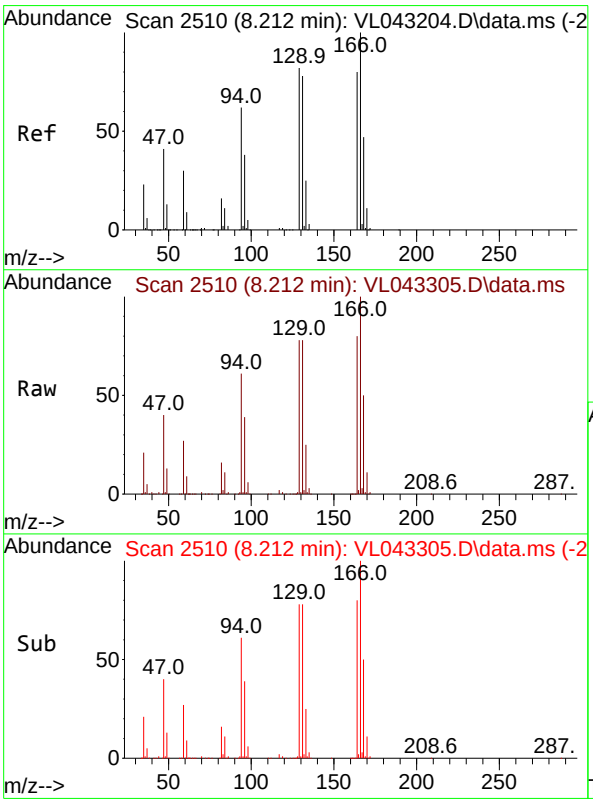
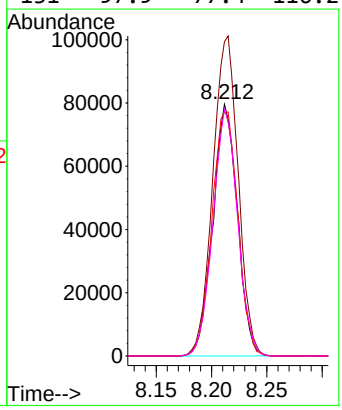
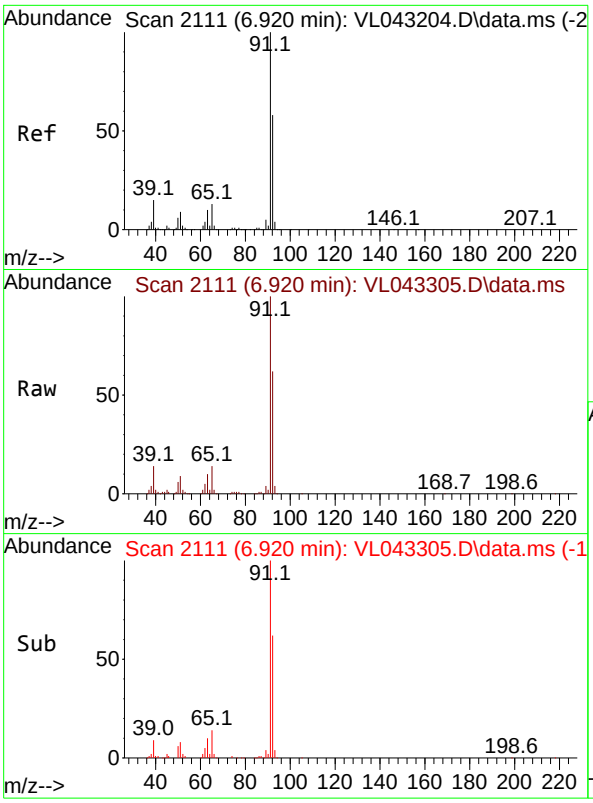


#52
Tetrachloroethene
Concen: 10.813 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:164 Resp: 123188

Ion	Ratio	Lower	Upper
164	100		
166	124.8	99.4	149.2
129	96.7	81.8	122.8
131	97.9	77.4	116.2

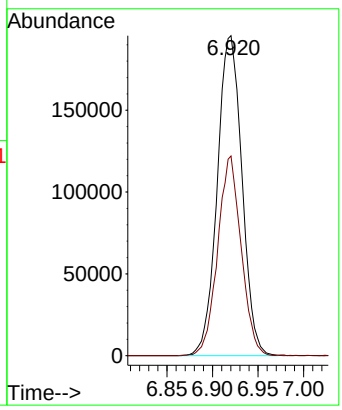




#53
Toluene
Concen: 10.165 ppbv
RT: 6.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 91 Resp: 36863

Ion	Ratio	Lower	Upper
91	100		
92	59.4	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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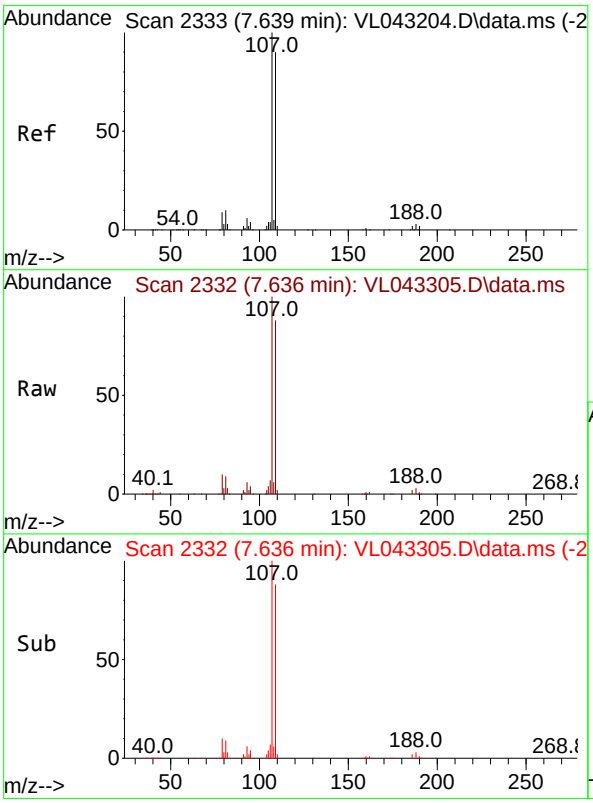
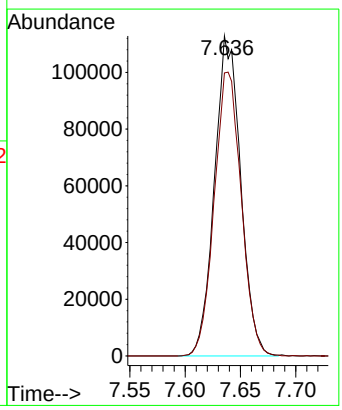
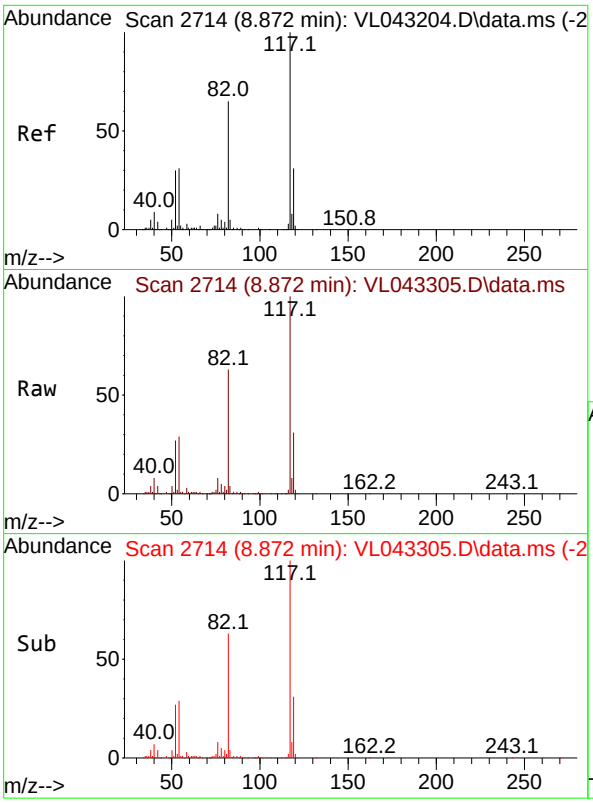


#54
1,2-Dibromoethane
Concen: 10.583 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:107 Resp: 185272

Ion	Ratio	Lower	Upper
107	100		
109	88.4	72.1	108.1

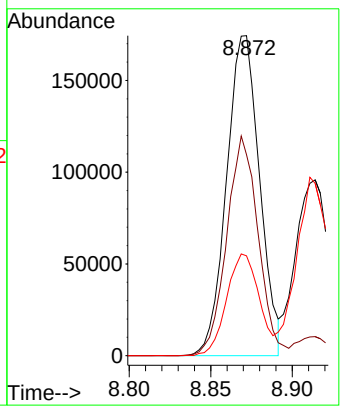




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:117 Resp: 24610

Ion	Ratio	Lower	Upper
117	100		
82	71.1	56.1	84.1
119	30.4	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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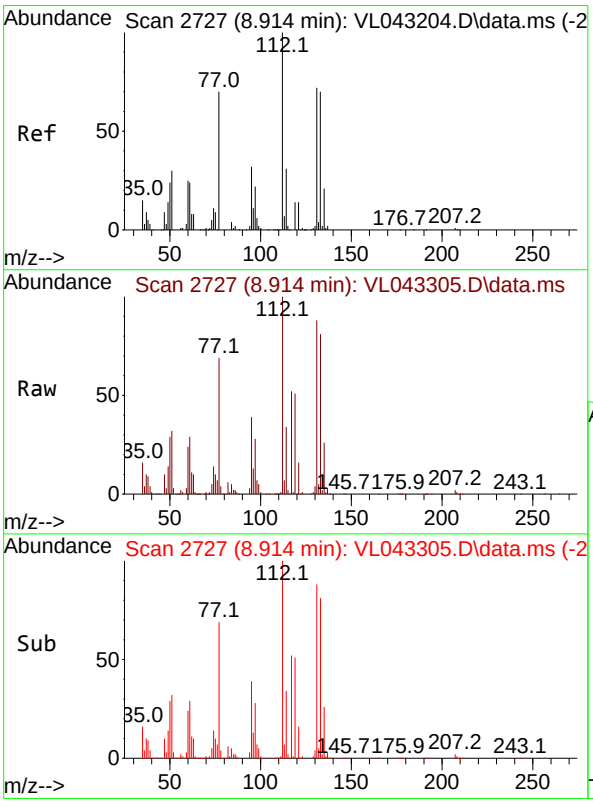
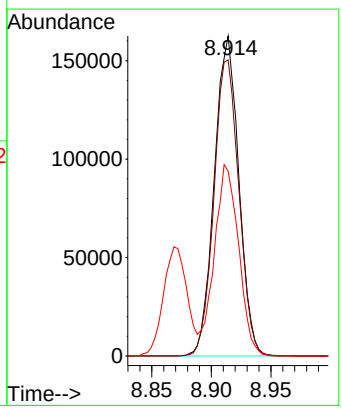
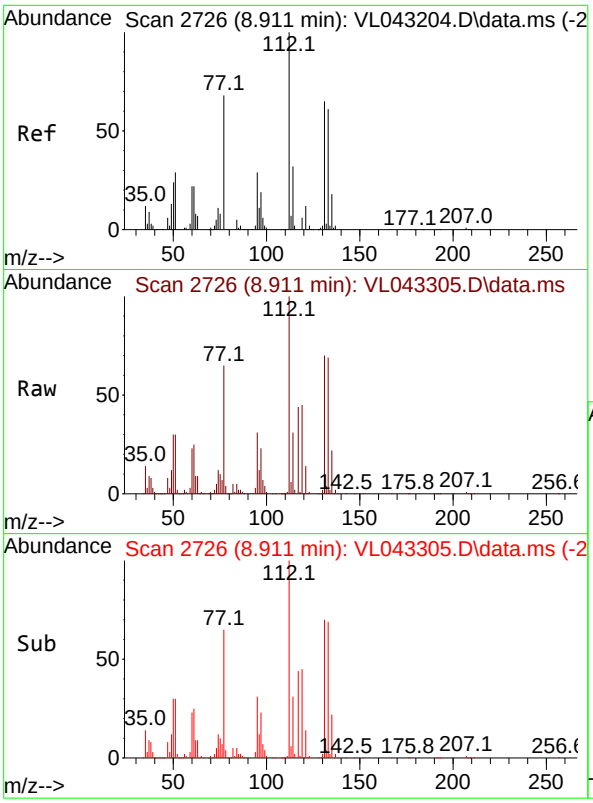


#56
1,1,1,2-Tetrachloroethane
Concen: 12.819 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:131 Resp: 231860

Ion	Ratio	Lower	Upper
131	100		
133	94.4	77.4	116.2
119	58.4	49.1	73.7

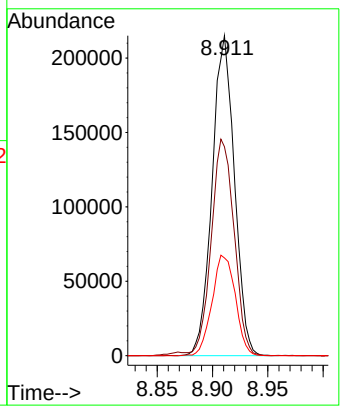




#57
Chlorobenzene
Concen: 11.943 ppbv
RT: 8.911 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:112 Resp: 30176

Ion	Ratio	Lower	Upper
112	100		
77	65.2	55.5	83.3
114	30.6	29.1	35.5



Instrument :
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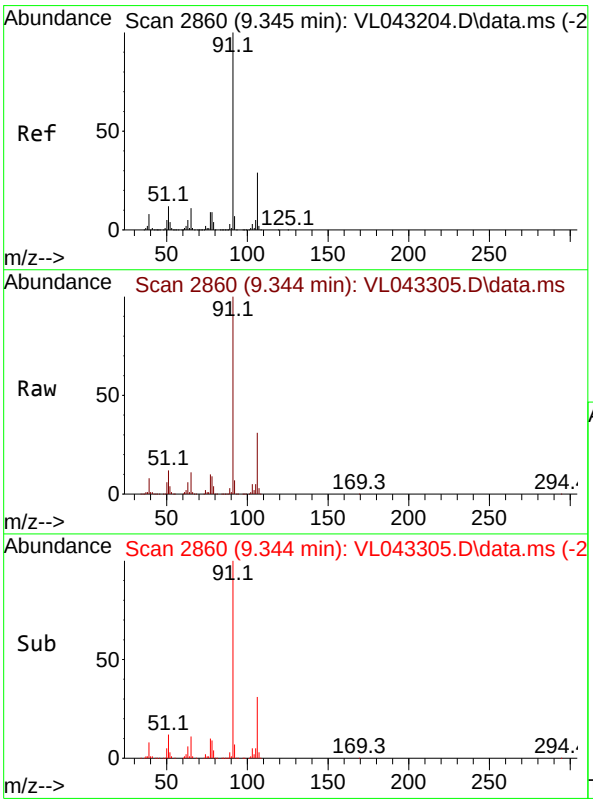
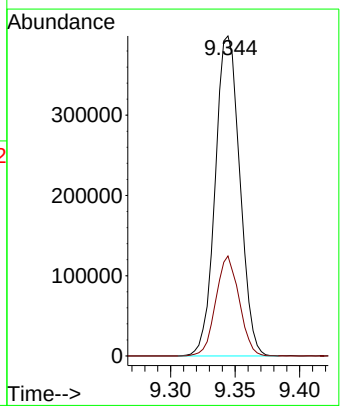
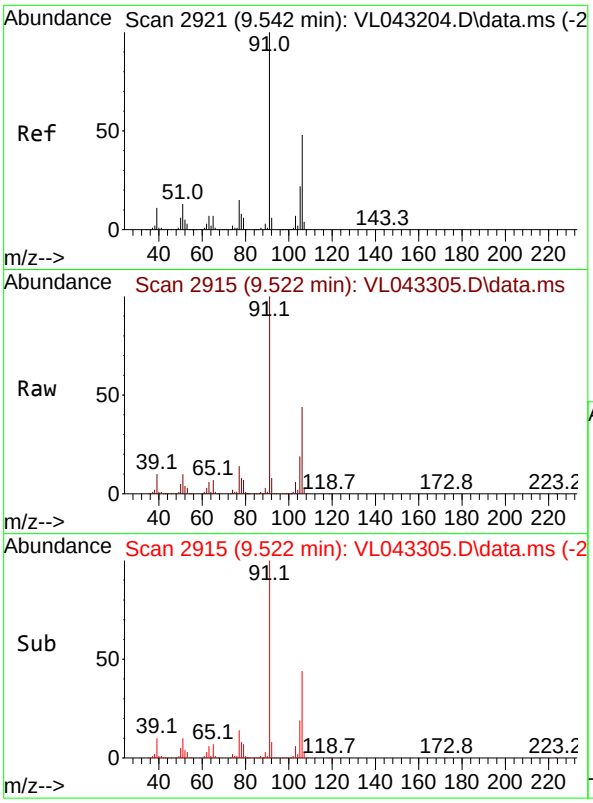


#58
Ethyl Benzene
Concen: 11.146 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 91 Resp: 527984

Ion	Ratio	Lower	Upper
91	100		
106	31.2	22.8	34.2

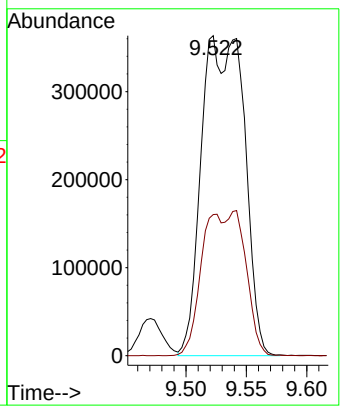




#59
m/p-Xylene
Concen: 23.631 ppbv m
RT: 9.522 min Scan# 2
Delta R.T. -0.020 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 91 Resp: 89741

Ion	Ratio	Lower	Upper
91	100		
106	45.6	36.1	54.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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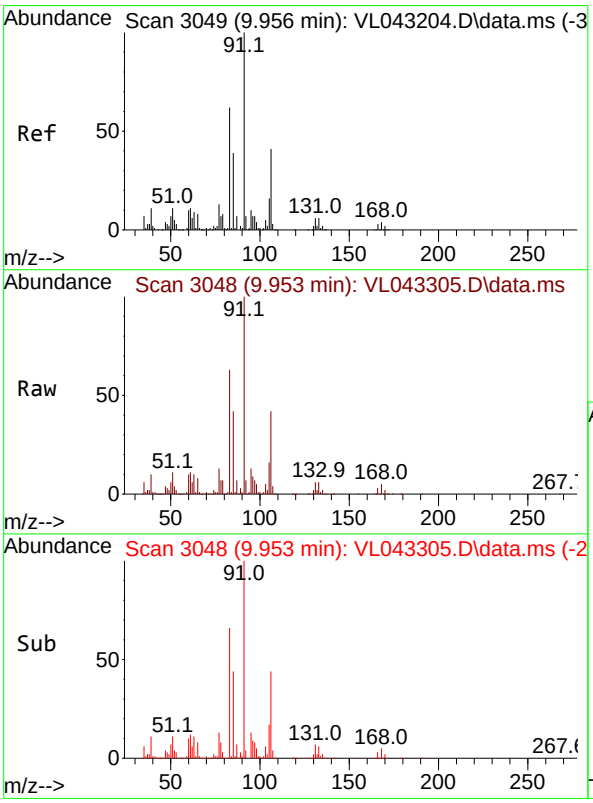
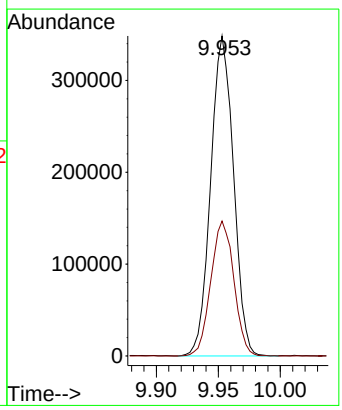
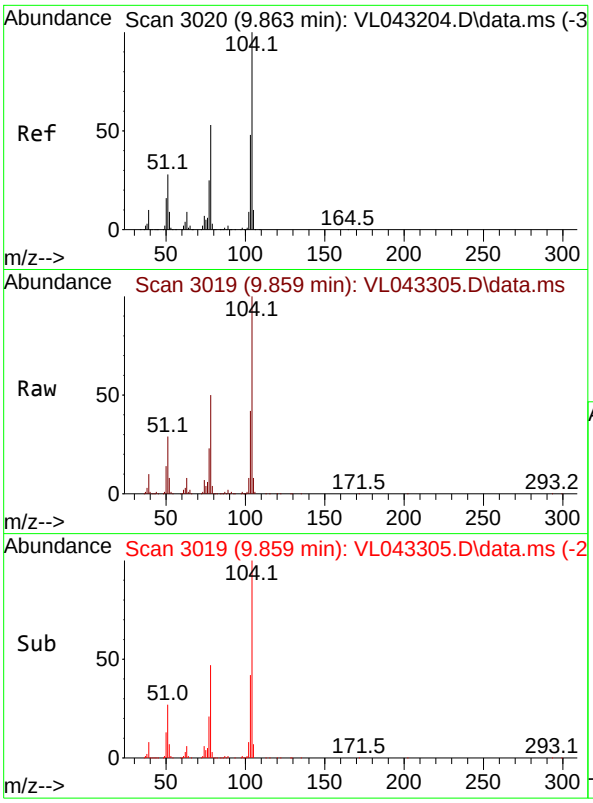


#60
o-Xylene
Concen: 11.799 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 91 Resp: 447628

Ion	Ratio	Lower	Upper
91	100		
106	42.5	20.9	62.8

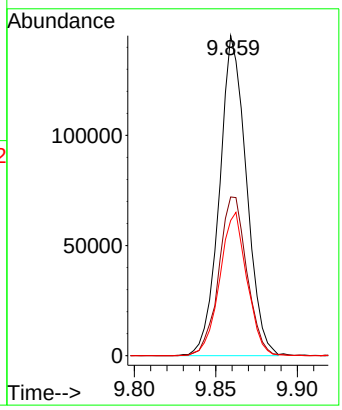




#61
Styrene
Concen: 10.061 ppbv
RT: 9.859 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:104 Resp: 16704

Ion	Ratio	Lower	Upper
104	100		
78	51.8	42.1	63.1
103	45.3	37.2	55.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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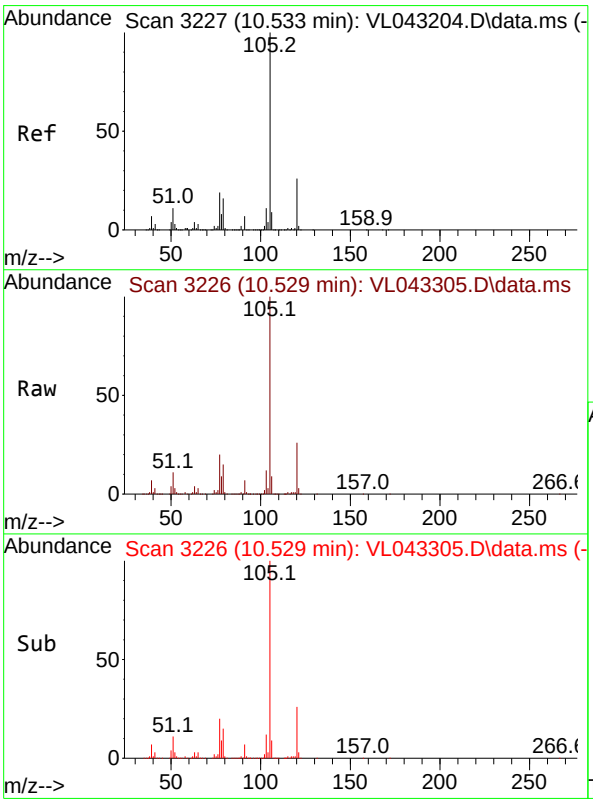
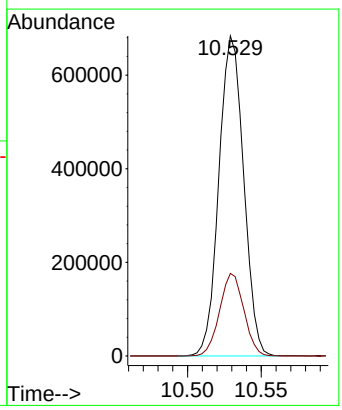
Supervised By :Mahesh Dadoda 12/11/2025

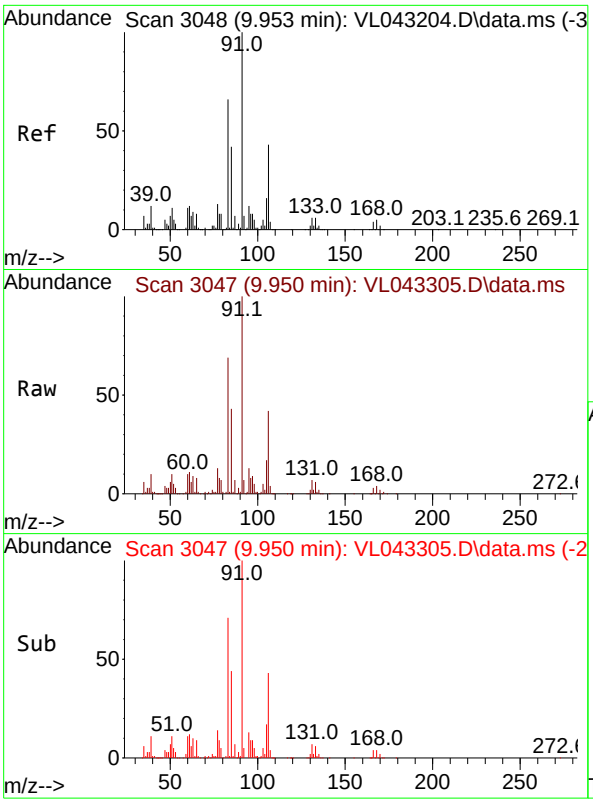


#62
Isopropylbenzene
Concen: 11.744 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:105 Resp: 797107

Ion	Ratio	Lower	Upper
105	100		
120	25.3	19.8	29.8

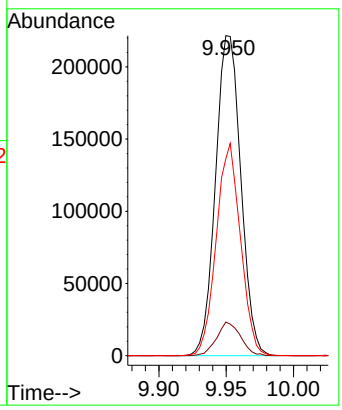




#63
1,1,2,2-Tetrachloroethane
Concen: 12.020 ppbv
RT: 9.950 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 83 Resp: 29014

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.3
85	63.4	31.9	95.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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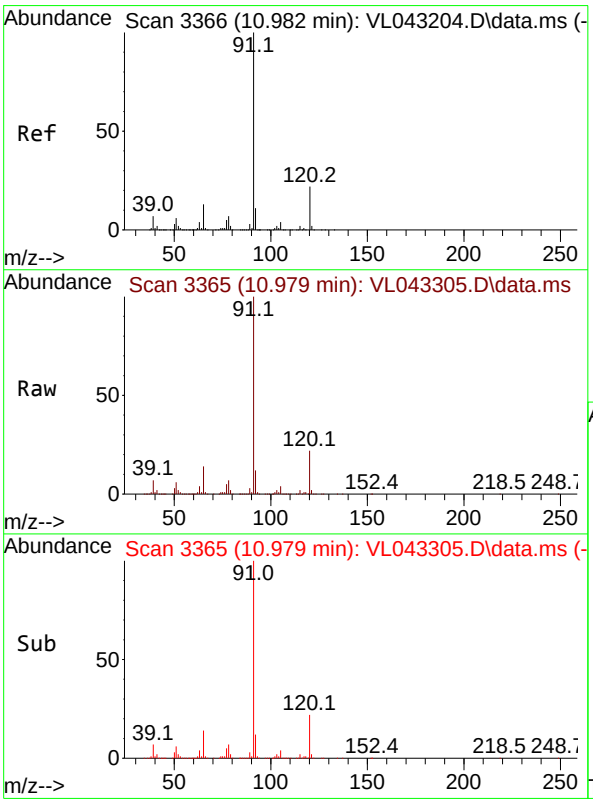
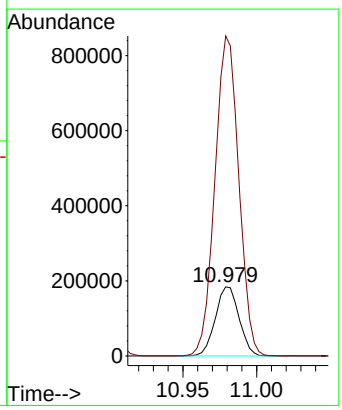
Supervised By :Mahesh Dadoda 12/11/2025

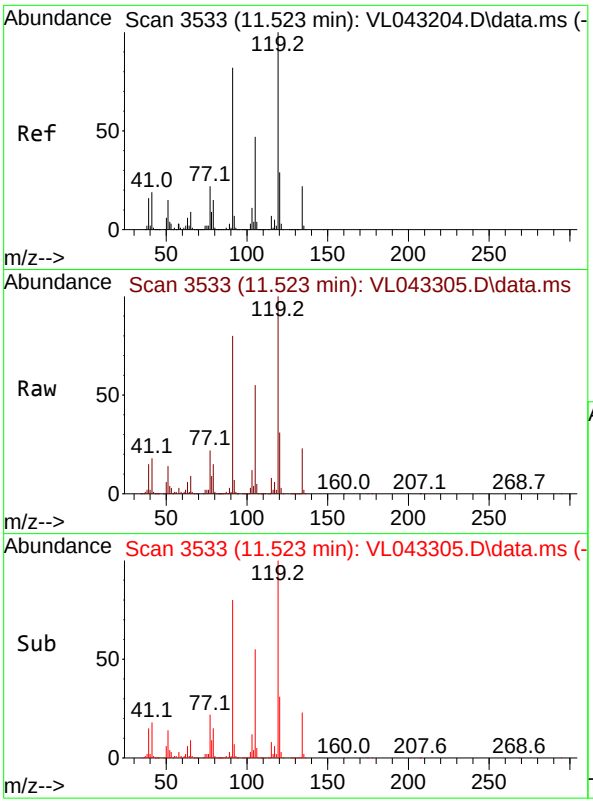


#64
n-propylbenzene
Concen: 11.779 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:120 Resp: 205431

Ion	Ratio	Lower	Upper
120	100		
91	467.7	377.1	565.7

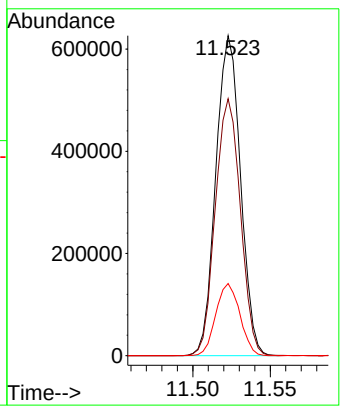




#65
tert-Butylbenzene
Concen: 11.455 ppbv
RT: 11.523 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:119 Resp: 69437

Ion	Ratio	Lower	Upper
119	100		
91	81.7	65.3	97.9
134	22.0	17.0	25.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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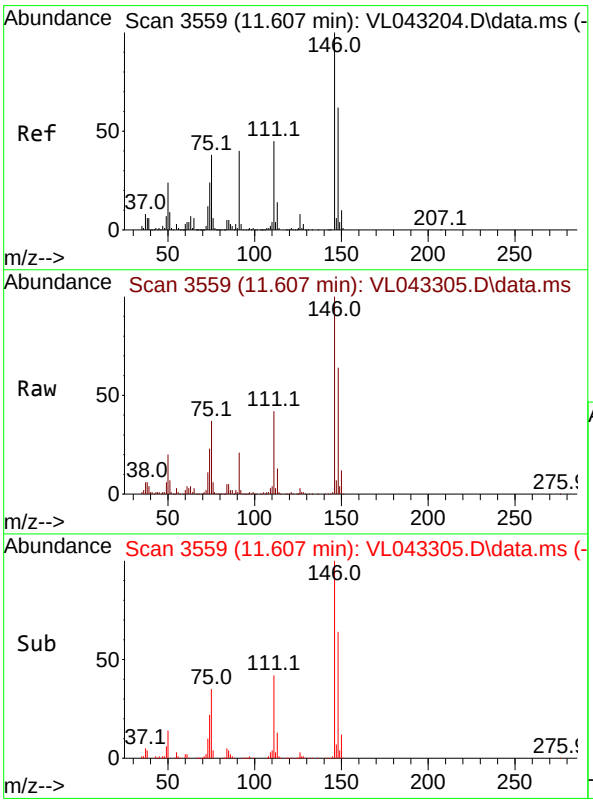
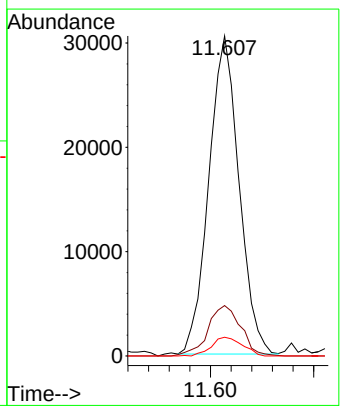
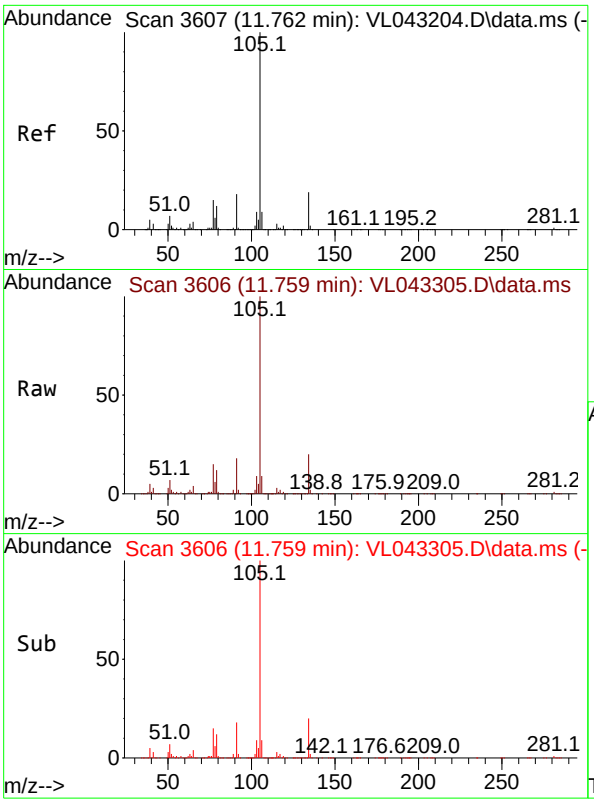


#66
Benzyl Chloride
Concen: 5.035 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 91 Resp: 30971

Ion	Ratio	Lower	Upper
91	100		
126	17.2	14.4	21.6
128	6.0	4.6	6.8

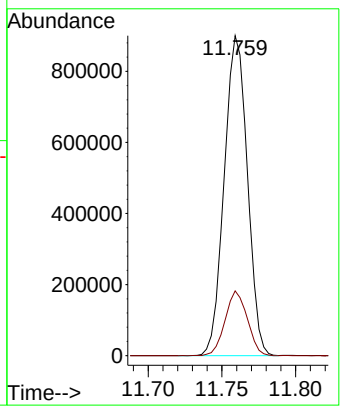




#67
sec-Butylbenzene
Concen: 11.615 ppbv
RT: 11.759 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:105 Resp: 98270

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.0	22.6



Instrument :
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ClientSampleId :
VSTDCCC010

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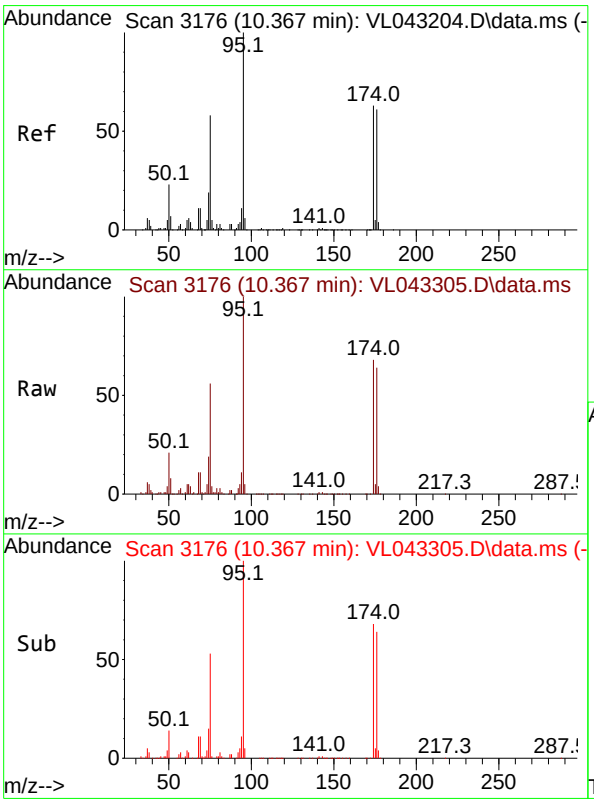
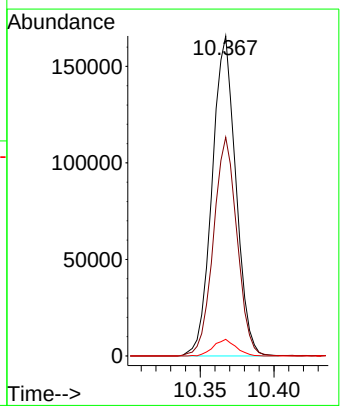
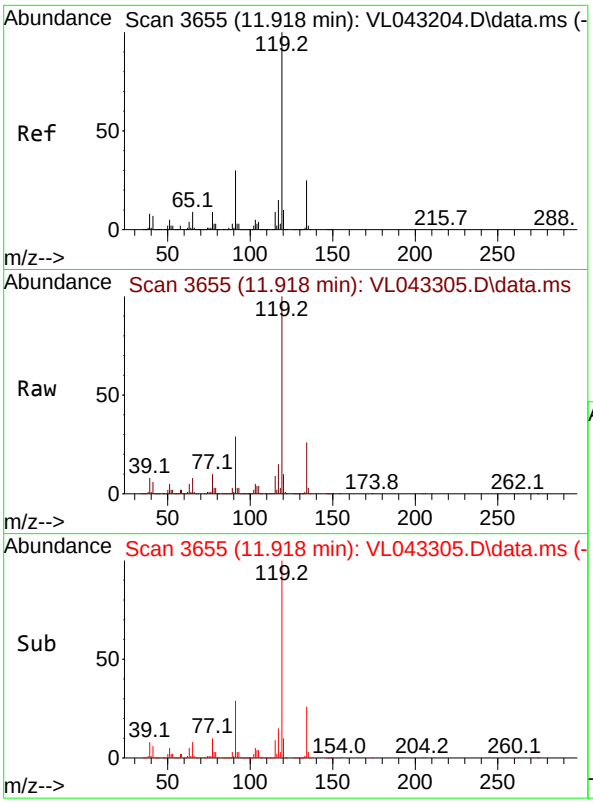


#68
1-Bromo-4-Fluorobenzene
Concen: 10.269 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 95 Resp: 185245

Ion	Ratio	Lower	Upper
95	100		
174	68.3	50.2	75.2
175	5.0	4.1	6.1

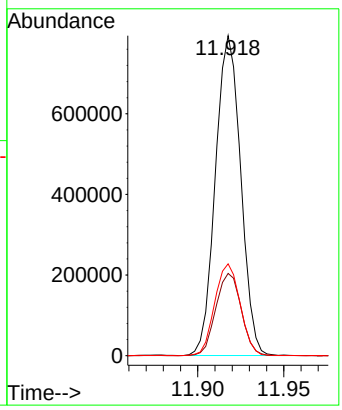




#69
p-Isopropyltoluene
Concen: 11.330 ppbv
RT: 11.918 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:119 Resp: 81205

Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.2	30.2
91	29.0	23.8	35.8



Instrument :
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ClientSampleId :
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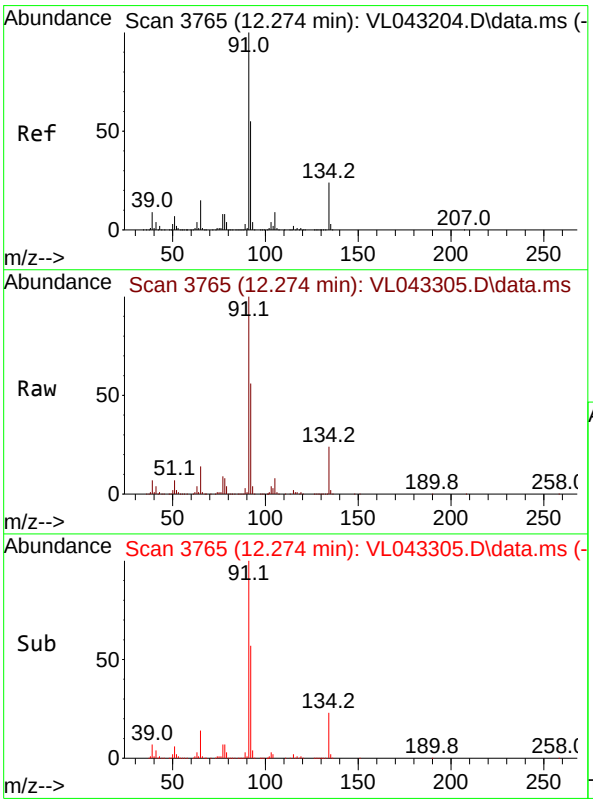
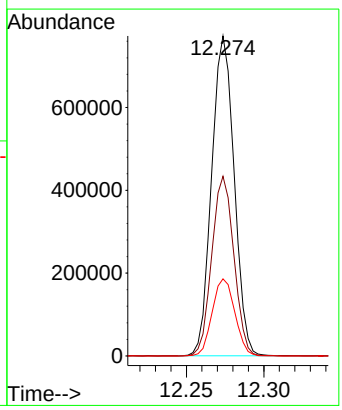
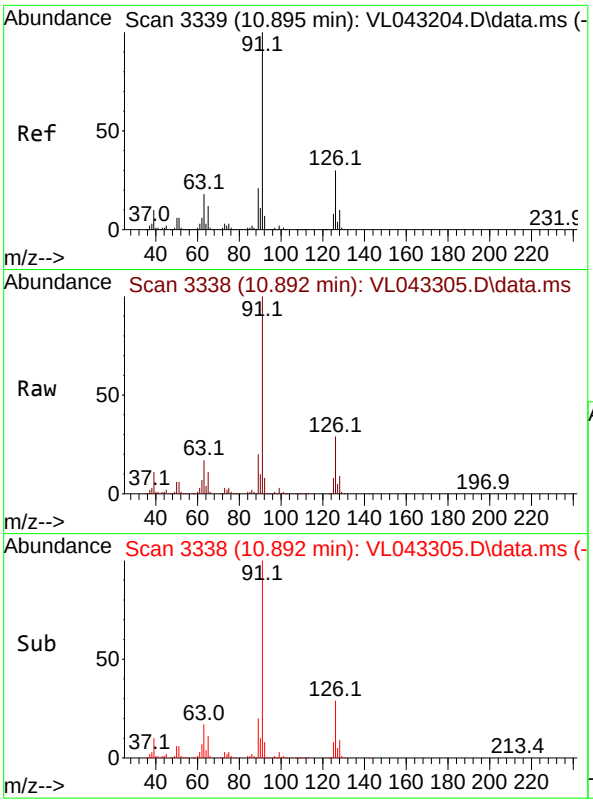


#70
n-Butylbenzene
Concen: 11.231 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 91 Resp: 780968

Ion	Ratio	Lower	Upper
91	100		
92	55.2	43.5	65.3
134	24.3	19.0	28.6

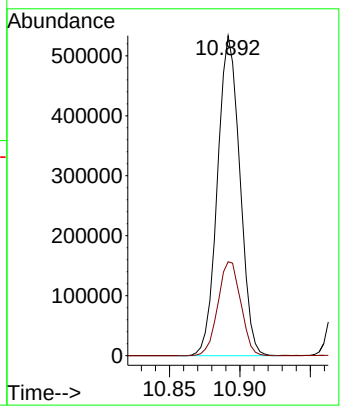




#71
2-Chlorotoluene
Concen: 11.289 ppbv
RT: 10.892 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 91 Resp: 58894

Ion	Ratio	Lower	Upper
91	100		
126	30.0	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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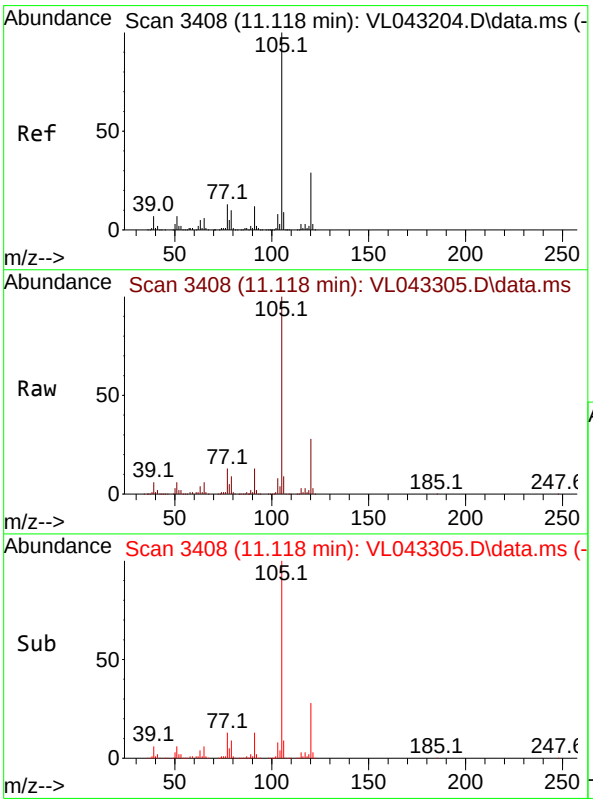
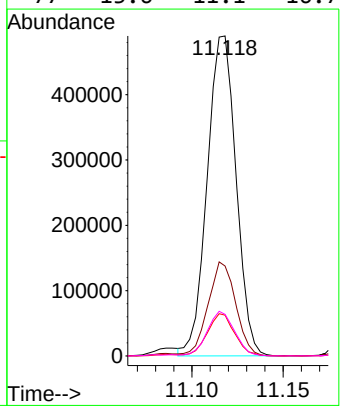
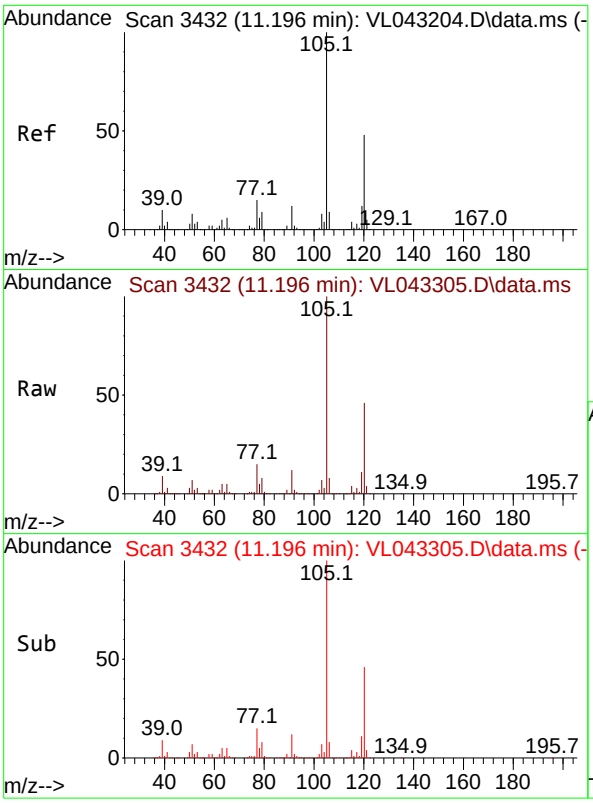


#72
4-Ethyltoluene
Concen: 11.678 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:105 Resp: 539530

Ion	Ratio	Lower	Upper
105	100		
120	28.8	23.8	35.8
91	12.8	10.3	15.5
77	13.6	11.1	16.7

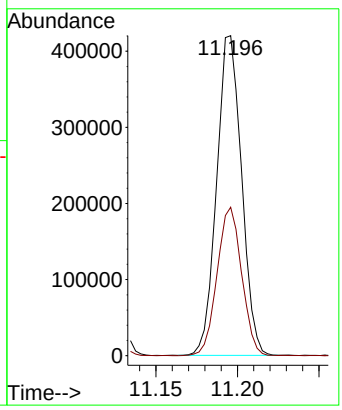




#73
1,3,5-Trimethylbenzene
Concen: 11.503 ppbv
RT: 11.196 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:105 Resp: 44598

Ion	Ratio	Lower	Upper
105	100		
120	46.5	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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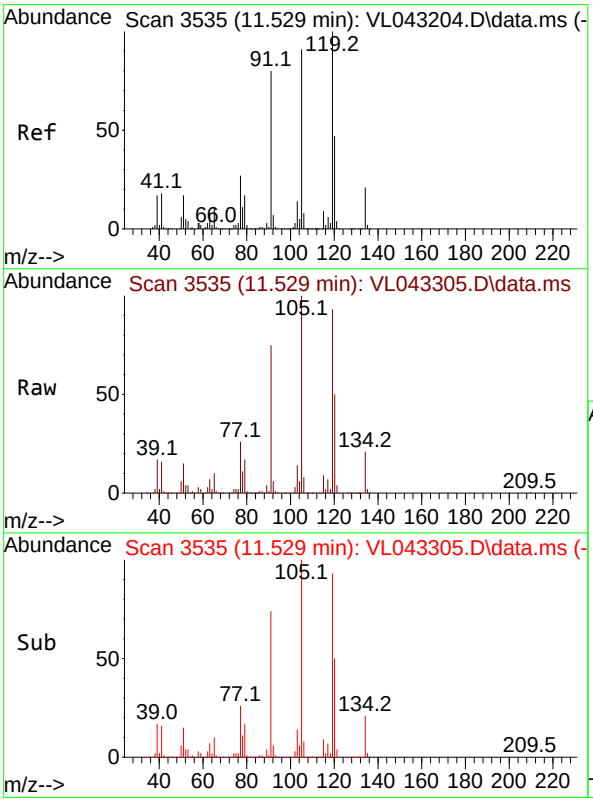
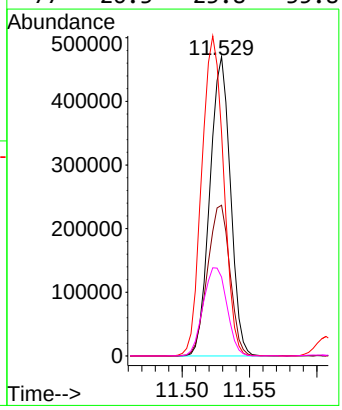
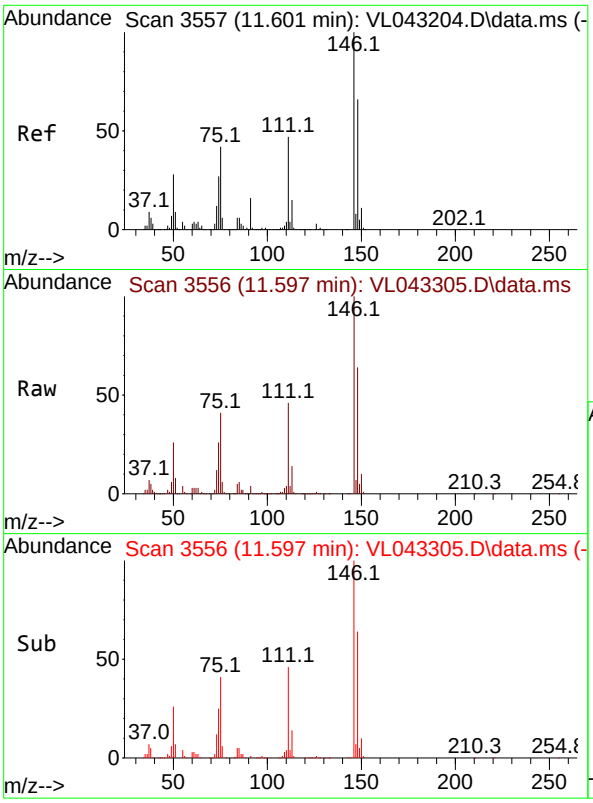


#74
1,2,4-Trimethylbenzene
Concen: 11.800 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:105 Resp: 499268

Ion	Ratio	Lower	Upper
105	100		
120	50.4	41.7	62.5
91	74.6	70.0	105.0
77	26.3	23.8	35.8

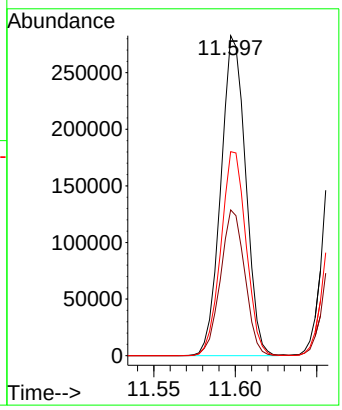




#75
1,3-Dichlorobenzene
Concen: 12.092 ppbv
RT: 11.597 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:146 Resp: 29856

Ion	Ratio	Lower	Upper
146	100		
111	44.8	23.4	70.3
148	64.8	31.6	95.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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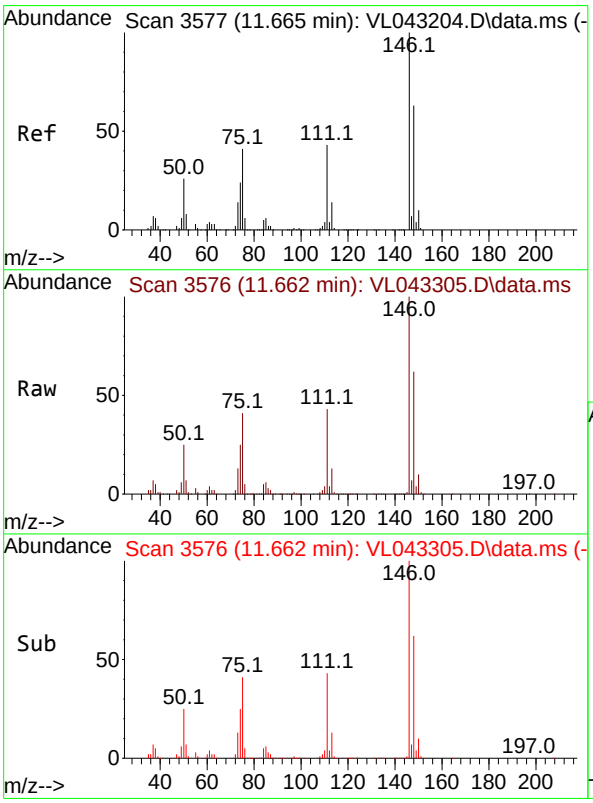
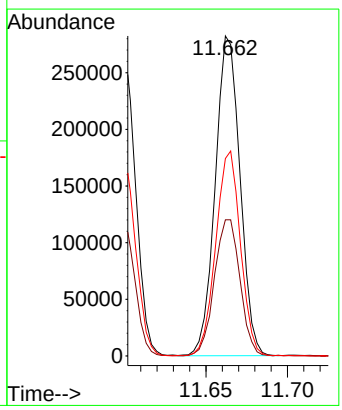
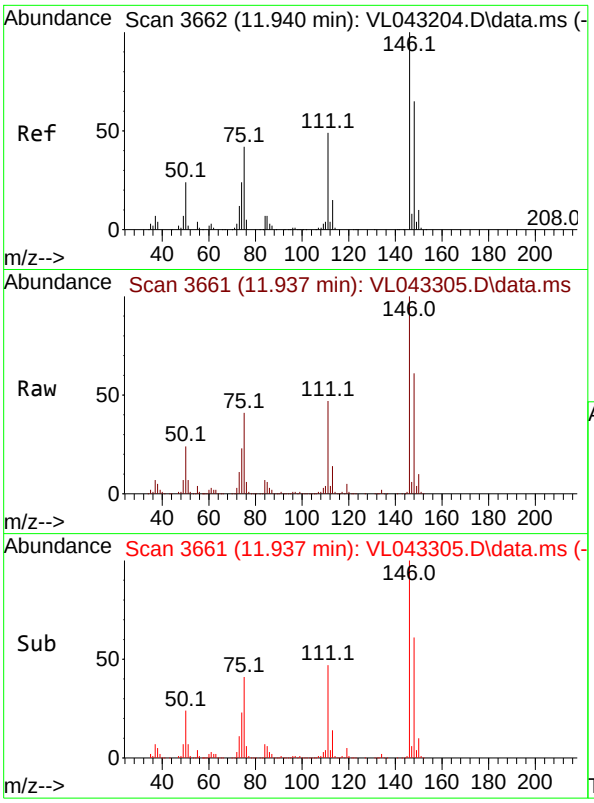


#76
1,4-Dichlorobenzene
Concen: 12.074 ppbv
RT: 11.662 min Scan# 3576
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:146 Resp: 298168

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.8	68.3
148	64.0	31.8	95.4

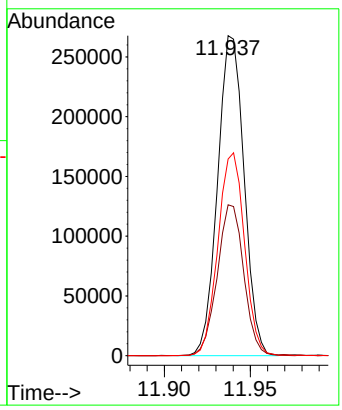




#77
1,2-Dichlorobenzene
Concen: 12.068 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:146 Resp: 28649

Ion	Ratio	Lower	Upper
146	100		
111	47.3	24.3	73.0
148	63.7	31.6	94.7



Instrument :
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ClientSampleId :
VSTDCCC010

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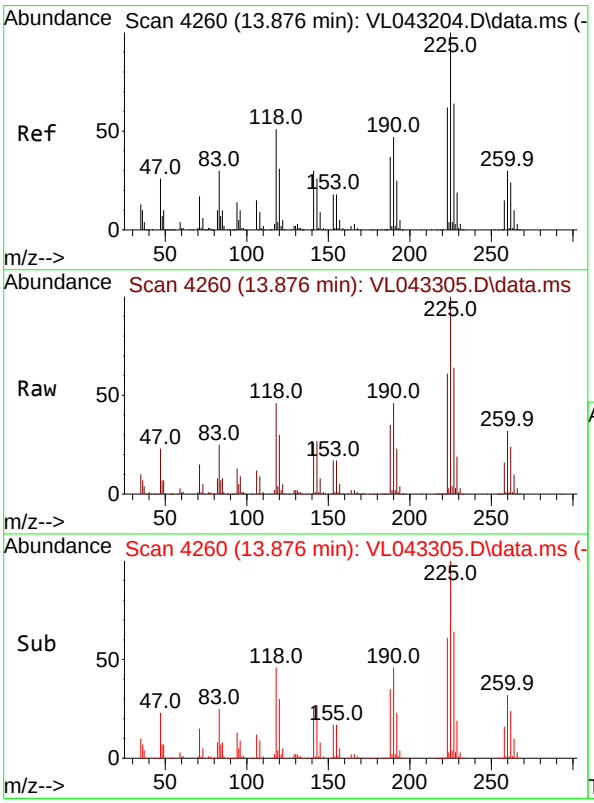
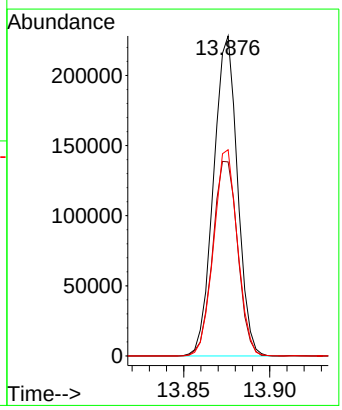
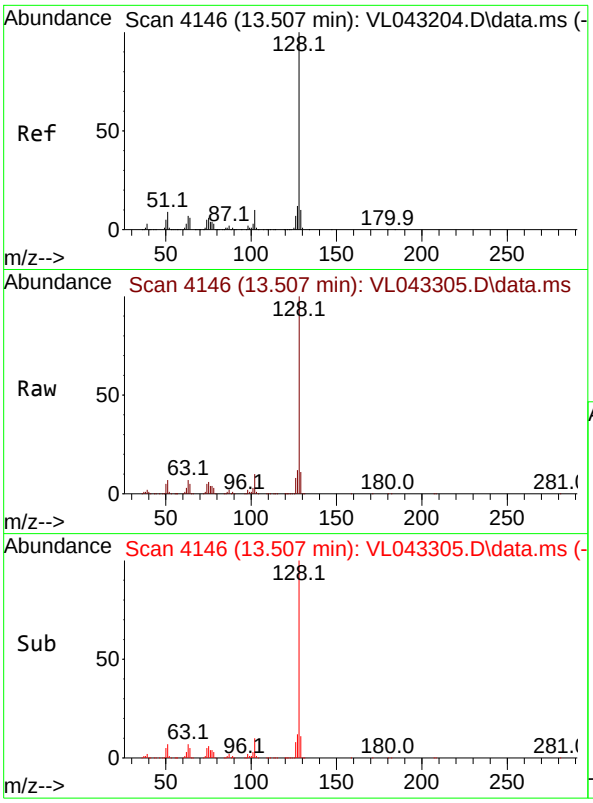


#78
Hexachloro-1,3-Butadiene
Concen: 11.143 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:225 Resp: 220765

Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.2	75.4
227	64.1	51.1	76.7

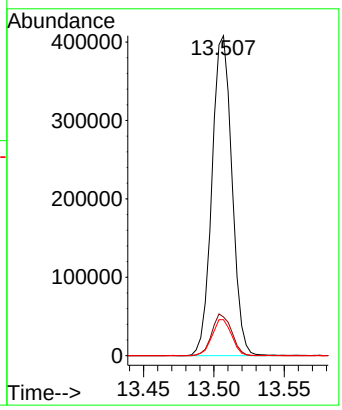




#79
Naphthalene
Concen: 10.733 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:128 Resp: 40334

Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.9	14.9
129	11.2	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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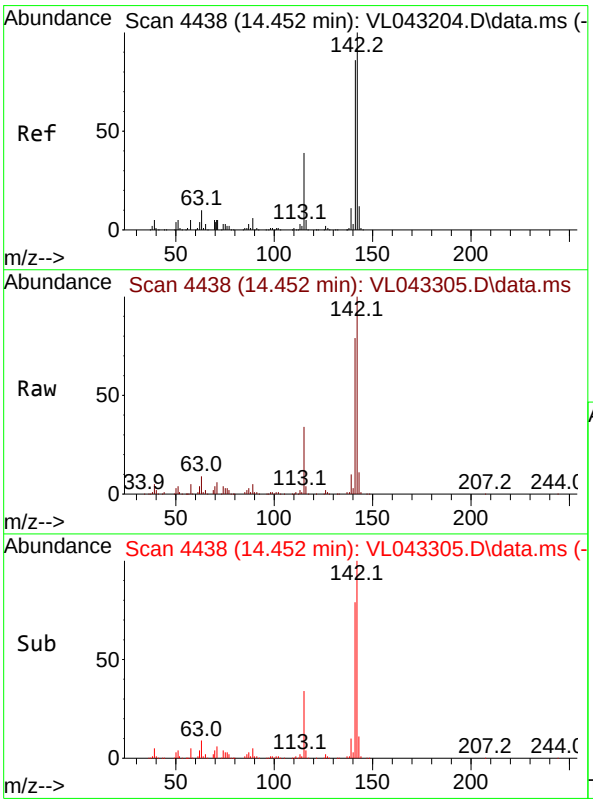
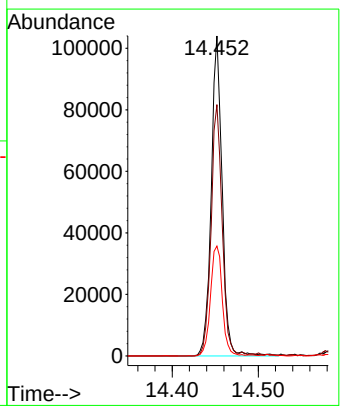
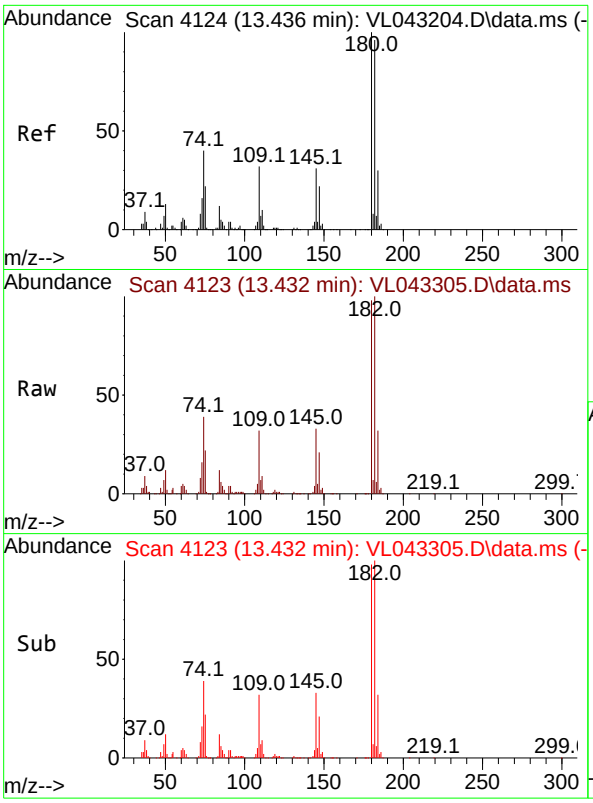


#80
Naphthalene,2-methyl-
Concen: 9.302 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:142 Resp: 91763

Ion	Ratio	Lower	Upper
142	100		
141	81.6	67.1	100.7
115	37.9	31.9	47.9

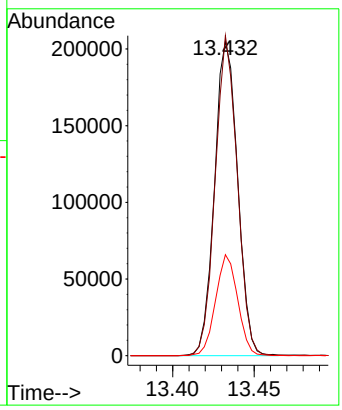




#81
1,2,4-Trichlorobenzene
Concen: 12.024 ppbv
RT: 13.432 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:180 Resp: 20207

Ion	Ratio	Lower	Upper
180	100		
182	97.5	77.4	116.2
184	30.7	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043305.D
Acq On : 08 Dec 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Dec 09 00:07:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	123	0.00
2	T	Dichlorodifluoromethane	1.410	1.501	-6.5	138	0.00
3		Chlorodifluoromethane	1.387	1.403	-1.2	131	0.00
4		Chloromethane	0.527	0.540	-2.5	133	0.00
5	T	Vinyl Chloride	0.577	0.526	8.8	133	0.00
6	T	Bromomethane	0.280	0.255	8.9	124	0.00
7		Chloroethane	0.225	0.217	3.6	138	0.00
8	T	Dichlorotetrafluoroethane	1.173	1.224	-4.3	138	0.00
9	T	Propene	0.589	0.553	6.1	136	0.00
10	T	Heptane	1.753	1.655	5.6	127	0.00
11	T	Trichlorofluoromethane	1.367	1.556	-13.8	154#	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.067	1.193	-11.8	149	0.00
13		Ethanol	0.207	0.170	17.9	126	0.00
14	T	Bromoethene	0.409	0.428	-4.6	146	0.00
15	T	Acetone	1.389	1.192	14.2	142	0.00
16	T	1,3-Butadiene	0.619	0.595	3.9	133	0.00
17		tert-Butyl alcohol	1.824	1.625	10.9	117	0.00
18	T	1,1-Dichloroethene	0.497	0.521	-4.8	145	0.00
19	T	Isopropyl Alcohol	0.785	0.654	16.7	118	0.00
20	T	Methylene Chloride	0.600	0.470	21.7	145	0.00
21	T	Allyl Chloride	0.935	0.818	12.5	119	0.00
22	T	trans-1,2-Dichloroethene	0.568	0.584	-2.8	144	0.00
23	T	Vinyl Acetate	1.677	1.581	5.7	120	0.00
24	T	1,1-Dichloroethane	1.096	1.133	-3.4	137	0.00
25	T	Ethyl Acetate	2.996	2.886	3.7	129	0.00
26	T	Hexane	1.314	1.300	1.1	130	0.00
27	T	Carbon Disulfide	1.341	1.459	-8.8	143	0.00
28	T	Methyl tert-Butyl Ether	0.645	0.654	-1.4	136	0.00
29	T	Chloroform	1.867	2.168	-16.1	149	0.00
30	T	Cyclohexane	1.101	1.072	2.6	129	0.00
31	T	cis-1,2-Dichloroethene	1.306	1.287	1.5	128	0.00
32	T	1,1,1-Trichloroethane	1.990	2.167	-8.9	142	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	113	0.00
34	T	2-Butanone	0.706	0.734	-4.0	128	0.00
35	T	Carbon Tetrachloride	0.759	0.922	-21.5	147	0.00
36	T	Benzene	0.958	1.061	-10.8	132	0.00
37	T	1,2-Dichloroethane	0.560	0.657	-17.3	139	0.00
38	T	Trichloroethene	0.375	0.424	-13.1	135	0.00
39	T	1,2-Dichloropropane	0.351	0.379	-8.0	128	0.00
40	T	1,4-Dioxane	0.158	0.139	12.0	110	0.00
41	T	Tetrahydrofuran	0.390	0.375	3.8	115	0.00
42	T	Bromodichloromethane	0.773	0.938	-21.3	142	0.00
43		Methyl Methacrylate	0.508	0.476	6.3	116	0.00
44	T	2,2,4-Trimethylpentane	1.645	1.794	-9.1	130	0.00
45	T	t-1,3-Dichloropropene	0.474	0.366	22.8	91	0.00
46	T	cis-1,3-Dichloropropene	0.556	0.457	17.8	96	0.00
47	T	1,1,2-Trichloroethane	0.372	0.423	-13.7	139	0.00
48	T	Dibromochloromethane	0.640	0.752	-17.5	137	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043305.D
Acq On : 08 Dec 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: Dec 09 00:07:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	0.566	0.681	-20.3	138	0.00
50	T	4-Methyl-2-Pentanone	0.994	0.969	2.5	116	0.00
51	T	2-Hexanone	0.772	0.688	10.9	106	0.00
52	T	Tetrachloroethene	0.356	0.385	-8.1	132	0.00
53	T	Toluene	1.134	1.153	-1.7	121	0.00
54	T	1,2-Dibromoethane	0.547	0.579	-5.9	124	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
56		1,1,1,2-Tetrachloroethane	0.735	0.942	-28.2	146	0.00
57	T	Chlorobenzene	1.027	1.226	-19.4	133	0.00
58	T	Ethyl Benzene	1.925	2.145	-11.4	123	0.00
59	T	m/p-Xylene	1.543	1.823	-18.1	133	-0.02
60	T	o-Xylene	1.542	1.819	-18.0	134	0.00
61	T	Styrene	0.675	0.679	-0.6	110	0.00
62		Isopropylbenzene	2.758	3.239	-17.4	133	0.00
63	T	1,1,2,2-Tetrachloroethane	0.981	1.179	-20.2	139	0.00
64		n-propylbenzene	0.709	0.835	-17.8	133	0.00
65		tert-Butylbenzene	2.463	2.821	-14.5	133	0.00
66	T	Benzyl Chloride	0.250	0.126	49.6#	55	0.00
67		sec-Butylbenzene	3.438	3.993	-16.1	135	0.00
68	S	1-Bromo-4-Fluorobenzene	0.733	0.753	-2.7	107	0.00
69		p-Isopropyltoluene	2.912	3.300	-13.3	130	0.00
70		n-Butylbenzene	2.825	3.173	-12.3	126	0.00
71		2-Chlorotoluene	2.120	2.393	-12.9	128	0.00
72	T	4-Ethyltoluene	1.877	2.192	-16.8	131	0.00
73	T	1,3,5-Trimethylbenzene	1.575	1.812	-15.0	130	0.00
74	T	1,2,4-Trimethylbenzene	1.719	2.029	-18.0	137	0.00
75	T	1,3-Dichlorobenzene	1.003	1.213	-20.9	136	0.00
76	T	1,4-Dichlorobenzene	1.003	1.212	-20.8	135	0.00
77	T	1,2-Dichlorobenzene	0.965	1.164	-20.6	140	0.00
78	T	Hexachloro-1,3-Butadiene	0.805	0.897	-11.4	137	0.00
79	T	Naphthalene	1.527	1.639	-7.3	115	0.00
80	T	Naphthalene,2-methyl-	0.401	0.373	7.0	99	0.00
81	T	1,2,4-Trichlorobenzene	0.683	0.821	-20.2	127	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\VL120825\
Data File : VL043305.D
Acq On : 08 Dec 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Dec 09 00:07:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	123	0.00
2	T	Dichlorodifluoromethane	10.000	10.644	-6.4	138	0.00
3		Chlorodifluoromethane	10.000	10.115	-1.2	131	0.00
4		Chloromethane	10.000	10.244	-2.4	133	0.00
5	T	Vinyl Chloride	10.000	9.124	8.8	133	0.00
6	T	Bromomethane	10.000	9.137	8.6	124	0.00
7		Chloroethane	10.000	9.648	3.5	138	0.00
8	T	Dichlorotetrafluoroethane	10.000	10.433	-4.3	138	0.00
9	T	Propene	10.000	9.394	6.1	136	0.00
10	T	Heptane	10.000	9.444	5.6	127	0.00
11	T	Trichlorofluoromethane	10.000	11.385	-13.8	154	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	11.178	-11.8	149	0.00
13		Ethanol	10.000	8.220	17.8	126	0.00
14	T	Bromoethene	10.000	10.465	-4.6	146	0.00
15	T	Acetone	10.000	8.581	14.2	142	0.00
16	T	1,3-Butadiene	10.000	9.600	4.0	133	0.00
17		tert-Butyl alcohol	10.000	8.911	10.9	117	0.00
18	T	1,1-Dichloroethene	10.000	10.487	-4.9	145	0.00
19	T	Isopropyl Alcohol	10.000	8.327	16.7	118	0.00
20	T	Methylene Chloride	10.000	11.604	-16.0	145	0.00
21	T	Allyl Chloride	10.000	8.756	12.4	119	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.291	-2.9	144	0.00
23	T	Vinyl Acetate	10.000	9.424	5.8	120	0.00
24	T	1,1-Dichloroethane	10.000	10.334	-3.3	137	0.00
25	T	Ethyl Acetate	10.000	9.630	3.7	129	0.00
26	T	Hexane	10.000	9.897	1.0	130	0.00
27	T	Carbon Disulfide	10.000	10.878	-8.8	143	0.00
28	T	Methyl tert-Butyl Ether	10.000	10.142	-1.4	136	0.00
29	T	Chloroform	10.000	11.610	-16.1	149	0.00
30	T	Cyclohexane	10.000	9.731	2.7	129	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.853	1.5	128	0.00
32	T	1,1,1-Trichloroethane	10.000	10.886	-8.9	142	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	113	0.00
34	T	2-Butanone	10.000	10.392	-3.9	128	0.00
35	T	Carbon Tetrachloride	10.000	12.149	-21.5	147	0.00
36	T	Benzene	10.000	11.074	-10.7	132	0.00
37	T	1,2-Dichloroethane	10.000	11.721	-17.2	139	0.00
38	T	Trichloroethene	10.000	11.309	-13.1	135	0.00
39	T	1,2-Dichloropropane	10.000	10.827	-8.3	128	0.00
40	T	1,4-Dioxane	10.000	8.836	11.6	110	0.00
41	T	Tetrahydrofuran	10.000	9.628	3.7	115	0.00
42	T	Bromodichloromethane	10.000	12.136	-21.4	142	0.00
43		Methyl Methacrylate	10.000	9.361	6.4	116	0.00
44	T	2,2,4-Trimethylpentane	10.000	10.909	-9.1	130	0.00
45	T	t-1,3-Dichloropropene	10.000	7.729	22.7	91	0.00
46	T	cis-1,3-Dichloropropene	10.000	8.219	17.8	96	0.00
47	T	1,1,2-Trichloroethane	10.000	11.381	-13.8	139	0.00
48	T	Dibromochloromethane	10.000	11.753	-17.5	137	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043305.D
Acq On : 08 Dec 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Dec 09 00:07:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	12.018	-20.2	138	0.00
50	T	4-Methyl-2-Pentanone	10.000	9.749	2.5	116	0.00
51	T	2-Hexanone	10.000	8.905	11.0	106	0.00
52	T	Tetrachloroethene	10.000	10.813	-8.1	132	0.00
53	T	Toluene	10.000	10.165	-1.6	121	0.00
54	T	1,2-Dibromoethane	10.000	10.583	-5.8	124	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	105	0.00
56		1,1,1,2-Tetrachloroethane	10.000	12.819	-28.2	146	0.00
57	T	Chlorobenzene	10.000	11.943	-19.4	133	0.00
58	T	Ethyl Benzene	10.000	11.146	-11.5	123	0.00
59	T	m/p-Xylene	20.000	23.631	-18.2	133	-0.02
60	T	o-Xylene	10.000	11.799	-18.0	134	0.00
61	T	Styrene	10.000	10.061	-0.6	110	0.00
62		Isopropylbenzene	10.000	11.744	-17.4	133	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	12.020	-20.2	139	0.00
64		n-propylbenzene	10.000	11.779	-17.8	133	0.00
65		tert-Butylbenzene	10.000	11.455	-14.6	133	0.00
66	T	Benzyl Chloride	10.000	5.035	49.6#	55	0.00
67		sec-Butylbenzene	10.000	11.615	-16.2	135	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.269	-2.7	107	0.00
69		p-Isopropyltoluene	10.000	11.330	-13.3	130	0.00
70		n-Butylbenzene	10.000	11.231	-12.3	126	0.00
71		2-Chlorotoluene	10.000	11.289	-12.9	128	0.00
72	T	4-Ethyltoluene	10.000	11.678	-16.8	131	0.00
73	T	1,3,5-Trimethylbenzene	10.000	11.503	-15.0	130	0.00
74	T	1,2,4-Trimethylbenzene	10.000	11.800	-18.0	137	0.00
75	T	1,3-Dichlorobenzene	10.000	12.092	-20.9	136	0.00
76	T	1,4-Dichlorobenzene	10.000	12.074	-20.7	135	0.00
77	T	1,2-Dichlorobenzene	10.000	12.068	-20.7	140	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	11.143	-11.4	137	0.00
79	T	Naphthalene	10.000	10.733	-7.3	115	0.00
80	T	Naphthalene,2-methyl-	10.000	9.302	7.0	99	0.00
81	T	1,2,4-Trichlorobenzene	10.000	12.024	-20.2	127	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

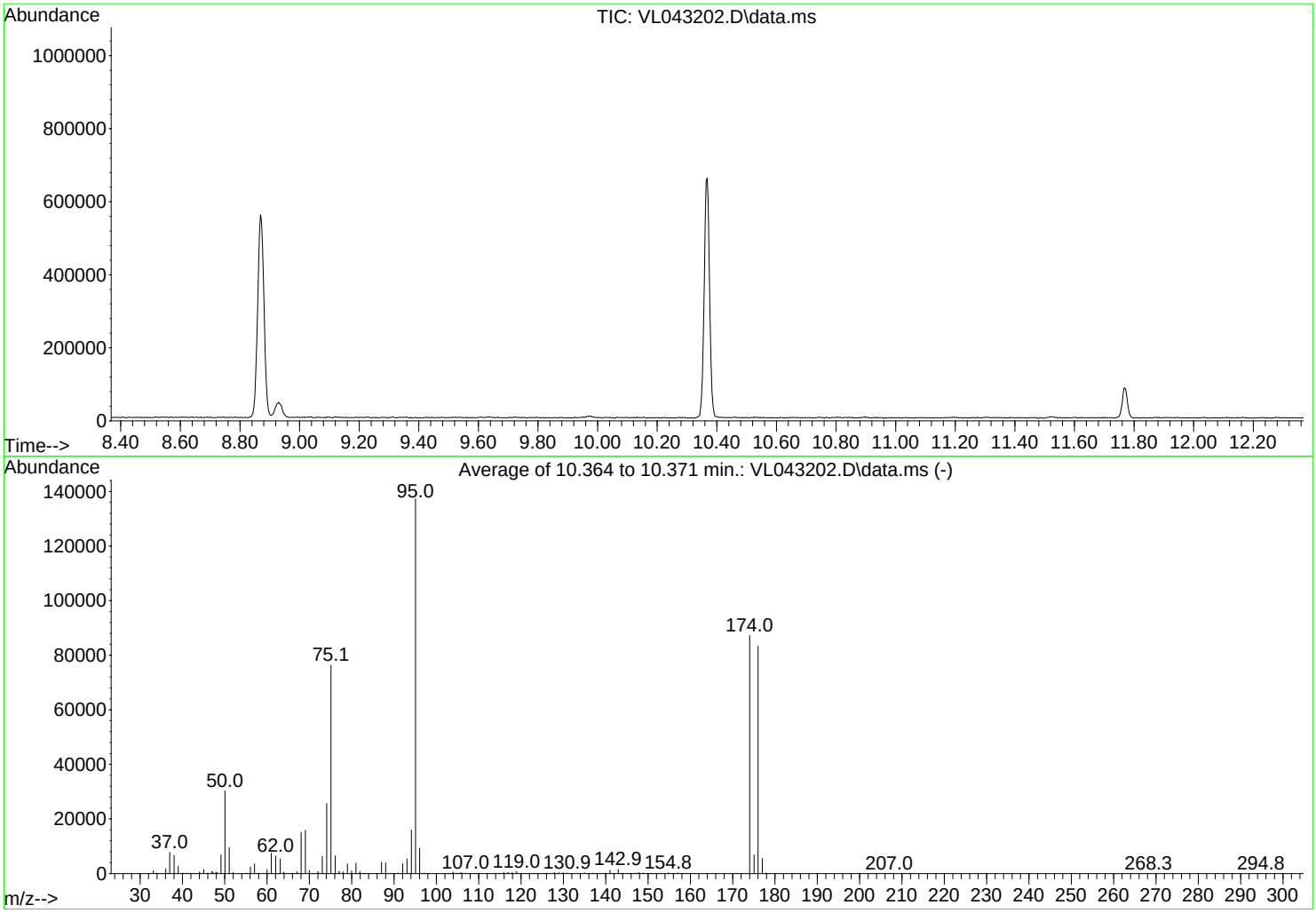
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043202.D
Acq On : 18 Nov 2025 08:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Nov 19 01:11:25 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3156

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.1	30285	PASS
75	95	30	66	55.6	76296	PASS
95	95	100	100	100.0	137266	PASS
96	95	5	9	6.7	9227	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.6	87269	PASS
175	174	4	9	7.8	6847	PASS
176	174	93	101	95.5	83301	PASS
177	176	5	9	6.6	5509	PASS

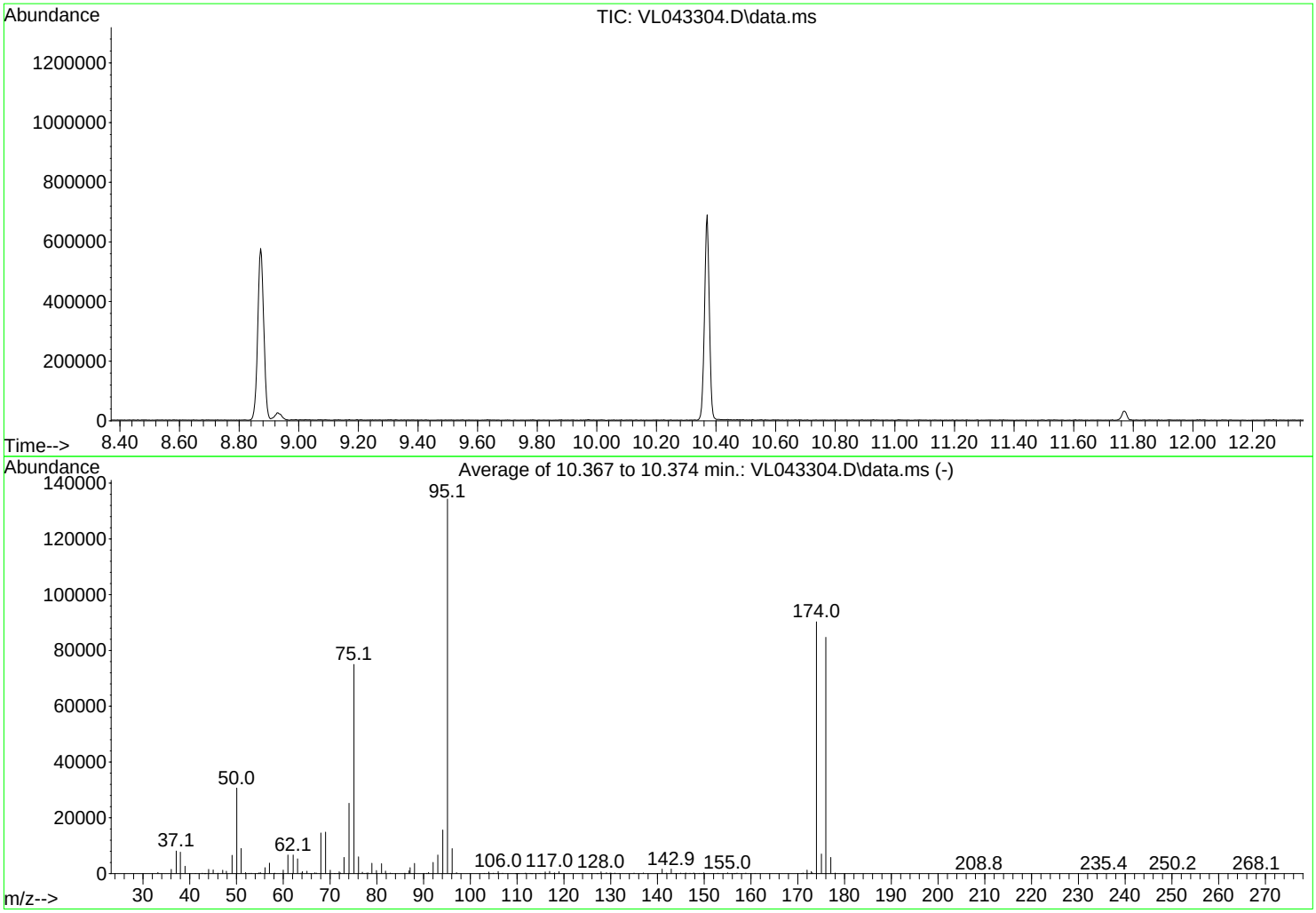
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043304.D
Acq On : 08 Dec 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Nov 19 01:11:25 2025



AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.8	30677	PASS
75	95	30	66	55.8	74976	PASS
95	95	100	100	100.0	134320	PASS
96	95	5	9	6.7	8968	PASS
173	174	0.00	2	0.9	774	PASS
174	95	50	120	67.2	90299	PASS
175	174	4	9	7.8	7010	PASS
176	174	93	101	93.8	84736	PASS
177	176	5	9	6.8	5800	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:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL1208ABL01	SDG No.:	Q3799
Lab Sample ID:	VL1208ABL01	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	12/08/25 09:36	VL120825
74-87-3	Chloromethane	0.10	0.21	U	1	0.21	1.03	12/08/25 09:36	VL120825
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	12/08/25 09:36	VL120825
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	12/08/25 09:36	VL120825
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	12/08/25 09:36	VL120825
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	12/08/25 09:36	VL120825
75-69-4	Trichlorofluoromethane	0.17	0.96	U	1	0.96	2.81	12/08/25 09:36	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	12/08/25 09:36	VL120825
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	12/08/25 09:36	VL120825
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	12/08/25 09:36	VL120825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	12/08/25 09:36	VL120825
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	12/08/25 09:36	VL120825
67-64-1	Acetone	0.18	0.43	U	1	0.43	1.19	12/08/25 09:36	VL120825
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	12/08/25 09:36	VL120825
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	12/08/25 09:36	VL120825
75-09-2	Methylene Chloride	0.23	0.80	U	1	0.80	1.74	12/08/25 09:36	VL120825
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	12/08/25 09:36	VL120825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	12/08/25 09:36	VL120825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	12/08/25 09:36	VL120825
78-93-3	2-Butanone	0.060	0.18	U	1	0.18	1.47	12/08/25 09:36	VL120825
56-23-5	Carbon Tetrachloride	0.030	0.19	U	1	0.19	0.19	12/08/25 09:36	VL120825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	12/08/25 09:36	VL120825
67-66-3	Chloroform	0.10	0.49	U	1	0.49	2.44	12/08/25 09:36	VL120825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	12/08/25 09:36	VL120825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	12/08/25 09:36	VL120825
71-43-2	Benzene	0.080	0.26	U	1	0.26	1.60	12/08/25 09:36	VL120825
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	12/08/25 09:36	VL120825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	12/08/25 09:36	VL120825
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	12/08/25 09:36	VL120825
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	12/08/25 09:36	VL120825
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	12/08/25 09:36	VL120825
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	12/08/25 09:36	VL120825
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	12/08/25 09:36	VL120825
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	12/08/25 09:36	VL120825
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	12/08/25 09:36	VL120825
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	12/08/25 09:36	VL120825
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	12/08/25 09:36	VL120825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	12/08/25 09:36	VL120825
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	12/08/25 09:36	VL120825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	12/08/25 09:36	VL120825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	12/08/25 09:36	VL120825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	12/08/25 09:36	VL120825
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	12/08/25 09:36	VL120825
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	12/08/25 09:36	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	12/08/25 09:36	VL120825
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	12/08/25 09:36	VL120825

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL1208ABL01	SDG No.:	Q3799
Lab Sample ID:	VL1208ABL01	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	12/08/25 09:36	VL120825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	12/08/25 09:36	VL120825
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	12/08/25 09:36	VL120825
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 09:36	VL120825
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 09:36	VL120825
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	12/08/25 09:36	VL120825
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	12/08/25 09:36	VL120825
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	12/08/25 09:36	VL120825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	12/08/25 09:36	VL120825
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	12/08/25 09:36	VL120825
110-54-3	Hexane	0.16	0.56	U	1	0.56	1.76	12/08/25 09:36	VL120825
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	12/08/25 09:36	VL120825
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	12/08/25 09:36	VL120825
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	12/08/25 09:36	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.10				70 (65) - 130 (135)	91% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	126000							
540-36-3	1,4-Difluorobenzene	313000							
3114-55-4	Chlorobenzene-d5	240000							

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\VL120825\
Data File : VL043306.D
Acq On : 08 Dec 2025 09:36
Operator : SY/MD
Sample : VL1208ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABL01

Quant Time: Dec 09 00:08:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

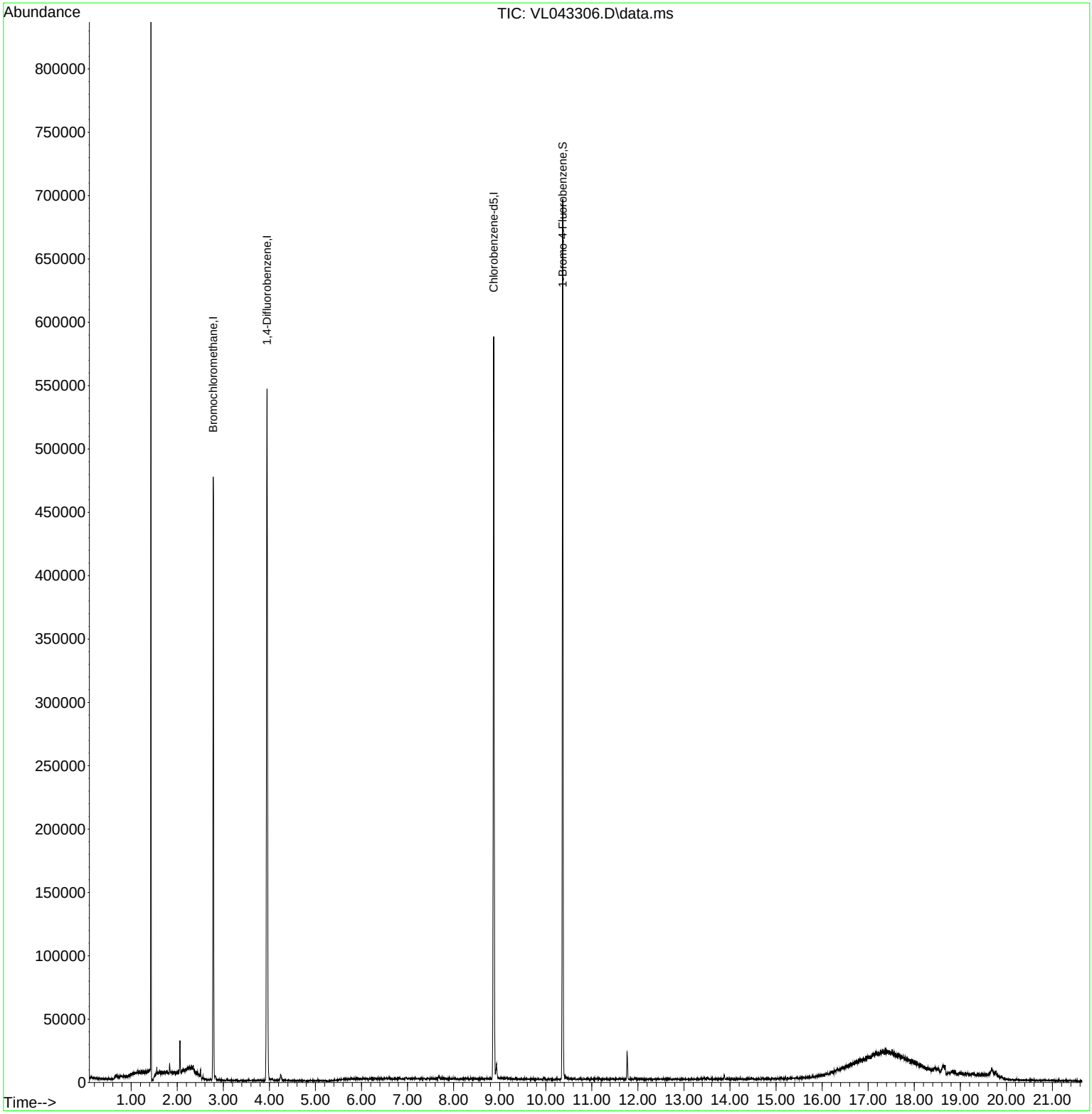
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	125653	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	312886	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	239807	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.368	95	159096	9.051	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 90.500%			
Target Compounds						Qvalue

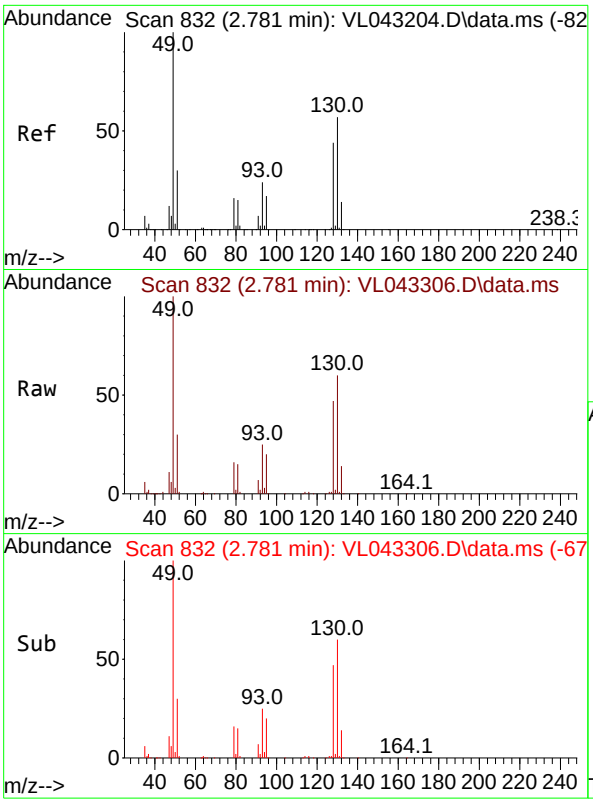
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043306.D
Acq On : 08 Dec 2025 09:36
Operator : SY/MD
Sample : VL1208ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABL01

Quant Time: Dec 09 00:08:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



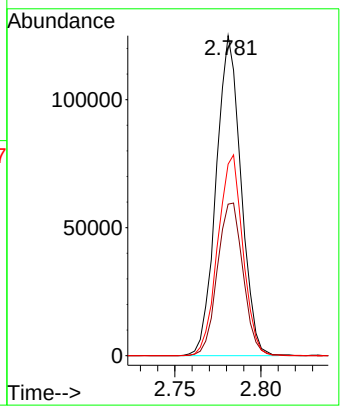


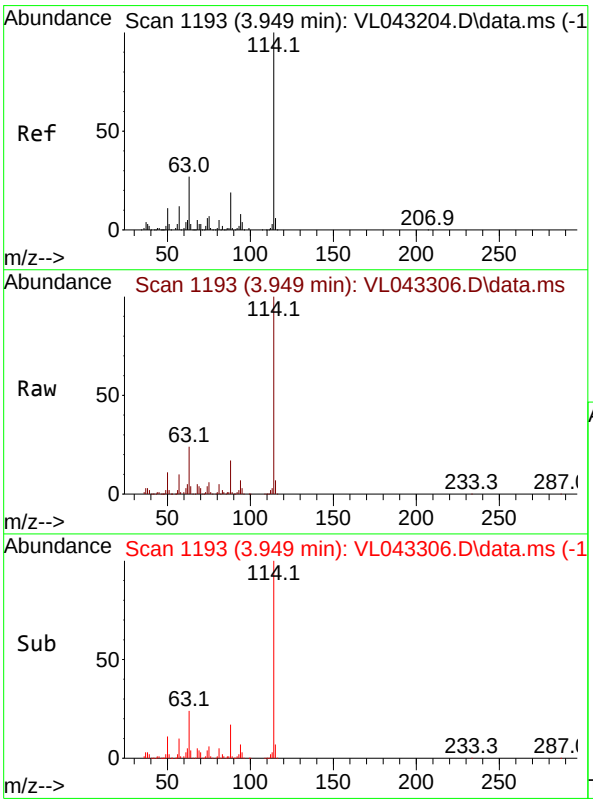
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043306.D
Acq: 08 Dec 2025 09:36

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABL01

Tgt Ion: 49 Resp: 125653

Ion	Ratio	Lower	Upper
49	100		
128	49.3	23.0	69.0
130	63.3	29.9	89.7

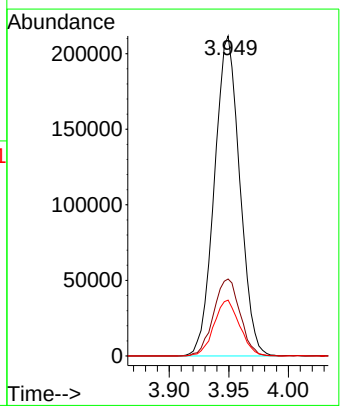


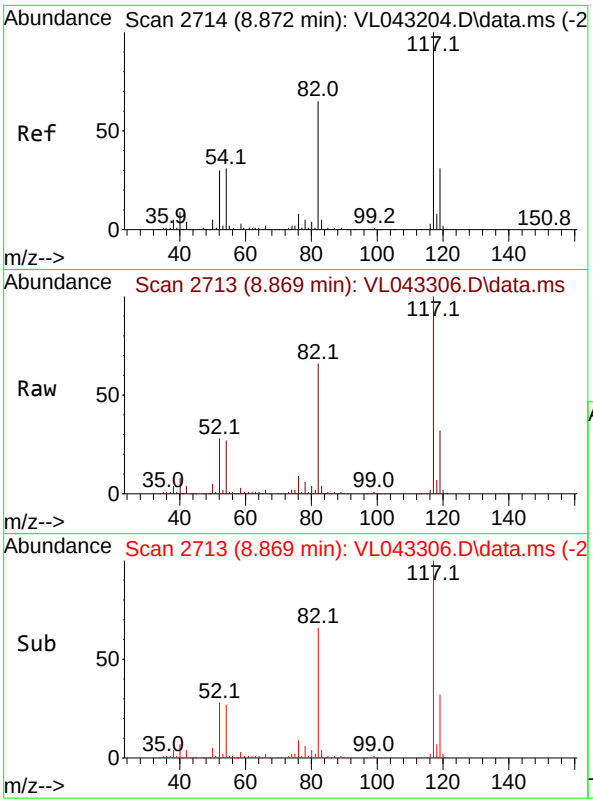


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VL043306.D
Acq: 08 Dec 2025 09:36

Tgt Ion:114 Resp: 312886

Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.0	31.6
88	17.7	14.9	22.3



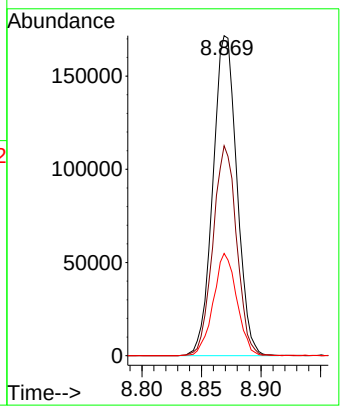


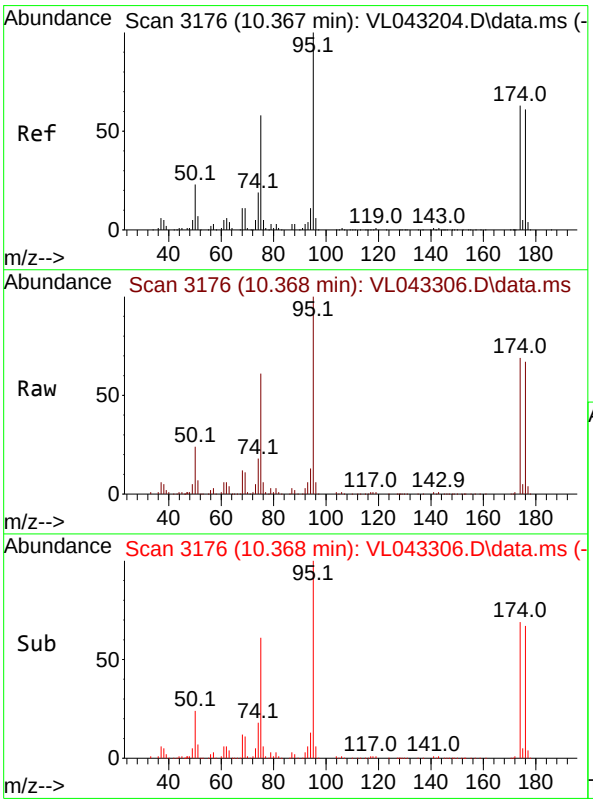
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043306.D
Acq: 08 Dec 2025 09:36

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABL01

Tgt Ion:117 Resp: 239807

Ion	Ratio	Lower	Upper
117	100		
82	64.8	56.1	84.1
119	31.5	25.0	37.6

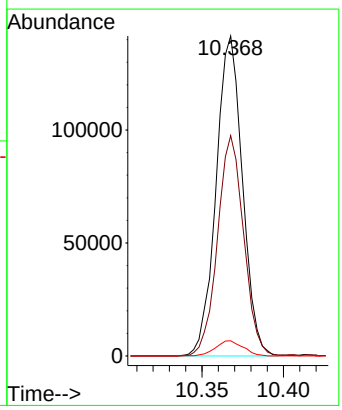




#68
1-Bromo-4-Fluorobenzene
Concen: 9.051 ppbv
RT: 10.368 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VL043306.D
Acq: 08 Dec 2025 09:36

Tgt Ion: 95 Resp: 159096

Ion	Ratio	Lower	Upper
95	100		
174	68.7	50.2	75.2
175	5.0	4.1	6.1



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:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL1208ABS01	SDG No.:	Q3799
Lab Sample ID:	VL1208ABS01	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	10.8	53.4		1	0.54	2.47	12/08/25 10:24	VL120825
74-87-3	Chloromethane	10.4	21.5		1	0.21	1.03	12/08/25 10:24	VL120825
75-01-4	Vinyl Chloride	9.20	23.5		1	0.080	0.080	12/08/25 10:24	VL120825
74-83-9	Bromomethane	9.30	36.1		1	0.31	1.94	12/08/25 10:24	VL120825
75-00-3	Chloroethane	9.90	26.1		1	0.40	1.32	12/08/25 10:24	VL120825
109-99-9	Tetrahydrofuran	9.70	28.6		1	0.24	1.47	12/08/25 10:24	VL120825
75-69-4	Trichlorofluoromethane	11.2	62.9		1	0.96	2.81	12/08/25 10:24	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	11.2	85.8		1	1.07	3.83	12/08/25 10:24	VL120825
76-14-2	Dichlorotetrafluoroethane	10.6	74.1		1	1.05	3.49	12/08/25 10:24	VL120825
75-65-0	tert-Butyl alcohol	8.90	27.0		1	0.49	1.52	12/08/25 10:24	VL120825
142-82-5	Heptane	9.40	38.5		1	0.70	2.05	12/08/25 10:24	VL120825
75-35-4	1,1-Dichloroethene	10.2	40.4		1	0.59	1.98	12/08/25 10:24	VL120825
67-64-1	Acetone	8.60	20.4		1	0.43	1.19	12/08/25 10:24	VL120825
75-15-0	Carbon Disulfide	11.1	34.6		1	0.25	1.56	12/08/25 10:24	VL120825
1634-04-4	Methyl tert-Butyl Ether	9.40	33.9		1	0.83	1.80	12/08/25 10:24	VL120825
75-09-2	Methylene Chloride	11.6	40.3		1	0.80	1.74	12/08/25 10:24	VL120825
156-60-5	trans-1,2-Dichloroethene	10.3	40.8		1	0.48	1.98	12/08/25 10:24	VL120825
75-34-3	1,1-Dichloroethane	10.5	42.5		1	0.53	2.02	12/08/25 10:24	VL120825
110-82-7	Cyclohexane	9.70	33.4		1	0.76	1.72	12/08/25 10:24	VL120825
78-93-3	2-Butanone	10.3	30.4		1	0.18	1.47	12/08/25 10:24	VL120825
56-23-5	Carbon Tetrachloride	12.1	76.1		1	0.19	0.19	12/08/25 10:24	VL120825
156-59-2	cis-1,2-Dichloroethene	9.90	39.3		1	0.40	1.98	12/08/25 10:24	VL120825
67-66-3	Chloroform	11.7	57.1		1	0.49	2.44	12/08/25 10:24	VL120825
71-55-6	1,1,1-Trichloroethane	10.9	59.5		1	0.11	0.16	12/08/25 10:24	VL120825
540-84-1	2,2,4-Trimethylpentane	10.8	50.4		1	0.65	2.34	12/08/25 10:24	VL120825
71-43-2	Benzene	11.2	35.8		1	0.26	1.60	12/08/25 10:24	VL120825
107-06-2	1,2-Dichloroethane	11.9	48.2		1	0.36	2.02	12/08/25 10:24	VL120825
79-01-6	Trichloroethene	11.5	61.8		1	0.11	0.16	12/08/25 10:24	VL120825
78-87-5	1,2-Dichloropropane	10.9	50.4		1	0.60	2.31	12/08/25 10:24	VL120825
75-27-4	Bromodichloromethane	12.0	80.4		1	0.40	3.35	12/08/25 10:24	VL120825
108-10-1	4-Methyl-2-Pentanone	10.0	41.0		1	0.41	2.05	12/08/25 10:24	VL120825
108-88-3	Toluene	10.3	38.8		1	0.60	1.88	12/08/25 10:24	VL120825
10061-02-6	t-1,3-Dichloropropene	7.80	35.4		1	0.68	2.27	12/08/25 10:24	VL120825
10061-01-5	cis-1,3-Dichloropropene	8.30	37.7		1	0.50	2.27	12/08/25 10:24	VL120825
79-00-5	1,1,2-Trichloroethane	11.6	63.3		1	0.44	2.73	12/08/25 10:24	VL120825
124-48-1	Dibromochloromethane	11.8	101		1	0.77	4.26	12/08/25 10:24	VL120825
106-93-4	1,2-Dibromoethane	10.5	80.7		1	0.69	0.77	12/08/25 10:24	VL120825
127-18-4	Tetrachloroethene	11.1	75.3		1	0.14	0.20	12/08/25 10:24	VL120825
108-90-7	Chlorobenzene	11.9	54.8		1	0.37	2.30	12/08/25 10:24	VL120825
100-41-4	Ethyl Benzene	11.2	48.6		1	0.83	2.17	12/08/25 10:24	VL120825
179601-23-1	m/p-Xylene	23.5	102		1	1.78	4.34	12/08/25 10:24	VL120825
95-47-6	o-Xylene	11.6	50.4		1	0.91	2.17	12/08/25 10:24	VL120825
100-42-5	Styrene	9.90	42.1		1	0.68	2.13	12/08/25 10:24	VL120825
75-25-2	Bromoform	12.2	126		1	0.52	5.17	12/08/25 10:24	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	11.6	79.7		1	0.14	0.21	12/08/25 10:24	VL120825
95-49-8	2-Chlorotoluene	11.0	57.0		1	0.88	2.59	12/08/25 10:24	VL120825

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

Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	VL1208ABS01	SDG No.:	Q3799
Lab Sample ID:	VL1208ABS01	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	11.4	56.0		1	0.88	2.46	12/08/25 10:24	VL120825
95-63-6	1,2,4-Trimethylbenzene	11.5	56.5		1	0.88	2.46	12/08/25 10:24	VL120825
541-73-1	1,3-Dichlorobenzene	11.8	70.9		1	0.30	3.01	12/08/25 10:24	VL120825
106-46-7	1,4-Dichlorobenzene	11.9	71.5		1	0.78	3.01	12/08/25 10:24	VL120825
95-50-1	1,2-Dichlorobenzene	11.8	70.9		1	0.78	3.01	12/08/25 10:24	VL120825
120-82-1	1,2,4-Trichlorobenzene	11.9	88.3		1	1.56	3.71	12/08/25 10:24	VL120825
87-68-3	Hexachloro-1,3-Butadiene	10.9	116		1	1.39	5.33	12/08/25 10:24	VL120825
106-99-0	1,3-Butadiene	9.60	21.2		1	0.11	1.11	12/08/25 10:24	VL120825
91-20-3	Naphthalene	10.7	56.1		1	0.050	0.52	12/08/25 10:24	VL120825
622-96-8	4-Ethyltoluene	11.5	56.5		1	1.03	2.46	12/08/25 10:24	VL120825
110-54-3	Hexane	9.90	34.9		1	0.56	1.76	12/08/25 10:24	VL120825
107-05-1	Allyl Chloride	8.80	27.5		1	0.34	1.57	12/08/25 10:24	VL120825
123-91-1	1,4-Dioxane	8.70	31.4		1	0.79	1.80	12/08/25 10:24	VL120825
80-62-6	Methyl Methacrylate	9.70	39.7		1	0.57	2.05	12/08/25 10:24	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	10.1				70 (65) - 130 (135)	101% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	128000							
540-36-3	1,4-Difluorobenzene	319000							
3114-55-4	Chlorobenzene-d5	251000							

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\VL120825\
Data File : VL043307.D
Acq On : 08 Dec 2025 10:24
Operator : SY/MD
Sample : VL1208ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.777	49	128373	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.946	114	319254	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.869	117	250711	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.364	95	185879	10.115	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	195547	10.800	ppbv		100
3) Chlorodifluoromethane	1.473	51	181736	10.206	ppbv		97
4) Chloromethane	1.531	50	70563	10.423	ppbv		100
5) Vinyl Chloride	1.577	62	67921	9.174	ppbv		93
6) Bromomethane	1.664	94	33521	9.340	ppbv		98
7) Chloroethane	1.700	64	28601	9.919	ppbv		91
8) Dichlorotetrafluoroethane	1.551	85	159668	10.601	ppbv		97
9) Propene	1.479	41	71417	9.445	ppbv	#	1
10) Heptane	4.962	43	210516	9.355	ppbv		98
11) Trichlorofluoromethane	1.874	101	196801	11.219	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.133	101	153996	11.244	ppbv		97
13) Ethanol	1.716	45	23202	8.726	ppbv		97
14) Bromoethene	1.777	108	55304	10.533	ppbv		94
15) Acetone	1.829	43	152789	8.567	ppbv		99
16) 1,3-Butadiene	1.606	39	76687	9.645	ppbv		97
17) tert-Butyl alcohol	2.033	59	209336	8.942	ppbv		100
18) 1,1-Dichloroethene	2.030	96	65282	10.237	ppbv		93
19) Isopropyl Alcohol	1.881	45	85723	8.506	ppbv	#	86
20) Methylene Chloride	2.056	84	60065	11.551	ppbv		95
21) Allyl Chloride	2.091	41	105272	8.773	ppbv		100
22) trans-1,2-Dichloroethene	2.334	96	75422	10.348	ppbv		95
23) Vinyl Acetate	2.454	43	197206	9.159	ppbv	#	98
24) 1,1-Dichloroethane	2.402	63	147058	10.453	ppbv		98
25) Ethyl Acetate	2.826	43	372295	9.678	ppbv		99
26) Hexane	2.816	57	166920	9.898	ppbv		98
27) Carbon Disulfide	2.146	76	190369	11.057	ppbv		99
28) Methyl tert-Butyl Ether	2.431	73	77723	9.389	ppbv		98
29) Chloroform	2.839	83	280544	11.703	ppbv		98
30) Cyclohexane	3.842	84	136887	9.681	ppbv		95
31) cis-1,2-Dichloroethene	2.713	61	166197	9.915	ppbv		94
32) 1,1,1-Trichloroethane	3.357	97	278163	10.886	ppbv		99
34) 2-Butanone	2.548	43	232285	10.307	ppbv		99
35) Carbon Tetrachloride	3.752	117	293430	12.109	ppbv		100
36) Benzene	3.645	78	342251	11.194	ppbv		99
37) 1,2-Dichloroethane	3.208	62	212457	11.880	ppbv		98
38) Trichloroethene	4.532	130	137474	11.493	ppbv		98
39) 1,2-Dichloropropane	4.295	63	122348	10.934	ppbv		92
40) 1,4-Dioxane	4.564	88	43982	8.743	ppbv	#	97
41) Tetrahydrofuran	3.043	42	121301	9.747	ppbv		98
42) Bromodichloromethane	4.473	83	296233	12.008	ppbv		97
43) Methyl Methacrylate	4.862	69	156667	9.654	ppbv		95
44) 2,2,4-Trimethylpentane	4.625	57	569168	10.839	ppbv		98
45) t-1,3-Dichloropropene	6.393	75	118391	7.826	ppbv		98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043307.D
Acq On : 08 Dec 2025 10:24
Operator : SY/MD
Sample : VL1208ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	146637	8.255	ppbv		94
47) 1,1,2-Trichloroethane	6.561	97	137247	11.557	ppbv		98
48) Dibromochloromethane	7.370	129	240784	11.793	ppbv		99
49) Bromoform	9.471	173	220417	12.188	ppbv		99
50) 4-Methyl-2-Pentanone	5.723	43	315888	9.951	ppbv		98
51) 2-Hexanone	7.415	43	223708	9.075	ppbv	#	98
52) Tetrachloroethene	8.208	164	125681	11.051	ppbv		96
53) Toluene	6.914	91	374608	10.347	ppbv		99
54) 1,2-Dibromoethane	7.636	107	183811	10.518	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.911	131	229368	12.449	ppbv		99
57) Chlorobenzene	8.908	112	305509	11.869	ppbv		99
58) Ethyl Benzene	9.341	91	538550	11.161	ppbv		97
59) m/p-Xylene	9.539	91	909288m	23.503	ppbv		
60) o-Xylene	9.950	91	446789	11.560	ppbv		98
61) Styrene	9.859	104	167877	9.925	ppbv		99
62) Isopropylbenzene	10.529	105	805674	11.652	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.950	83	285542	11.611	ppbv		99
64) n-propylbenzene	10.979	120	208180	11.718	ppbv		96
65) tert-Butylbenzene	11.523	119	696094	11.273	ppbv		100
66) Benzyl Chloride	11.604	91	31638	5.049	ppbv		98
67) sec-Butylbenzene	11.759	105	973259	11.291	ppbv		99
69) p-Isopropyltoluene	11.914	119	808286	11.070	ppbv		99
70) n-Butylbenzene	12.270	91	780553	11.019	ppbv		100
71) 2-Chlorotoluene	10.888	91	584474	10.997	ppbv		99
72) 4-Ethyltoluene	11.115	105	540638	11.487	ppbv		99
73) 1,3,5-Trimethylbenzene	11.193	105	451214	11.424	ppbv		96
74) 1,2,4-Trimethylbenzene	11.526	105	496984	11.530	ppbv		100
75) 1,3-Dichlorobenzene	11.597	146	297680	11.834	ppbv		98
76) 1,4-Dichlorobenzene	11.662	146	298352	11.859	ppbv		98
77) 1,2-Dichlorobenzene	11.937	146	285835	11.819	ppbv		98
78) Hexachloro-1,3-Butadiene	13.873	225	220056	10.903	ppbv		99
79) Naphthalene	13.504	128	409312	10.692	ppbv		97
80) Naphthalene,2-methyl-	14.449	142	92975	9.252	ppbv		99
81) 1,2,4-Trichlorobenzene	13.432	180	204005	11.915	ppbv		98

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

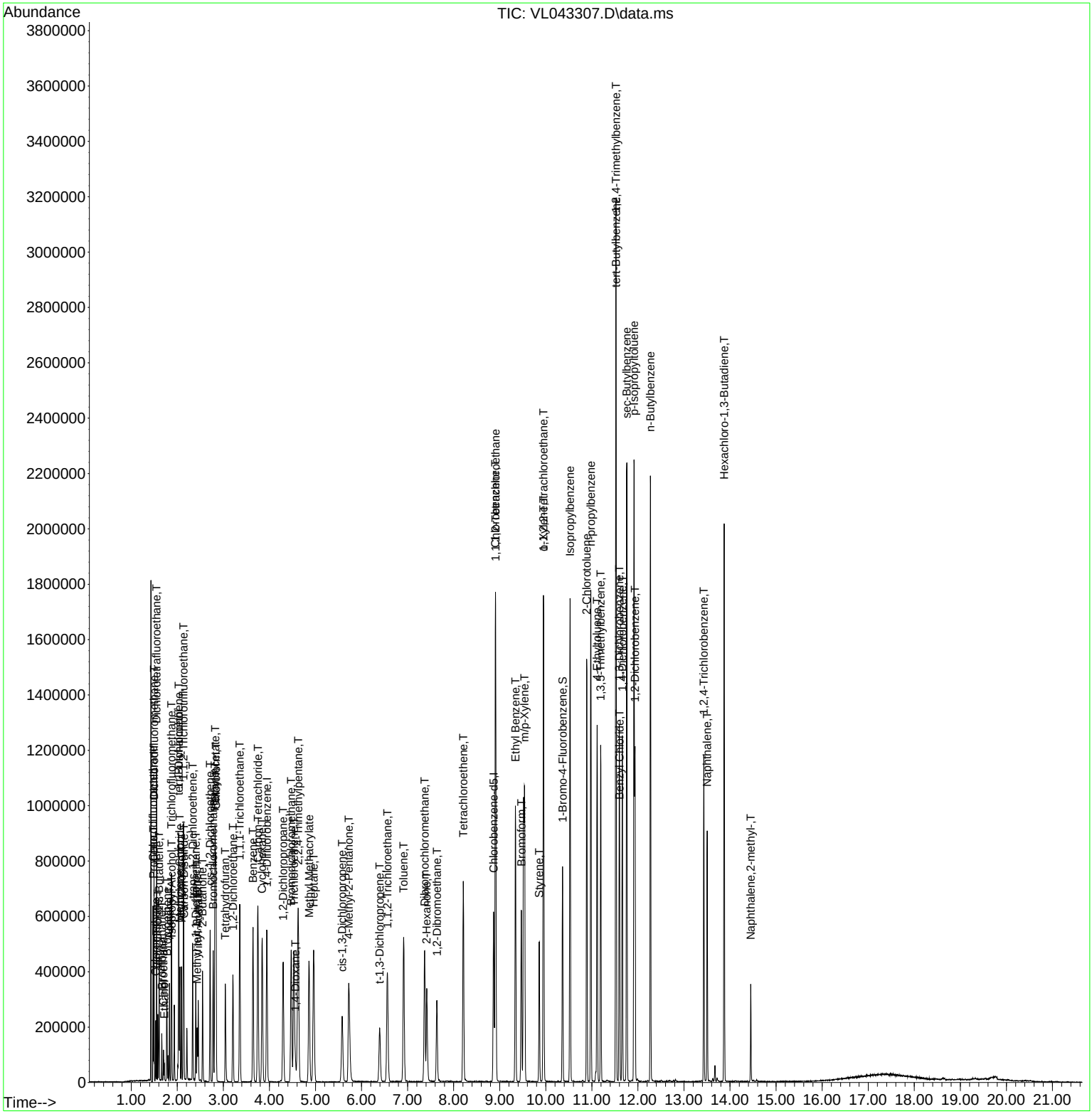
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043307.D
Acq On : 08 Dec 2025 10:24
Operator : SY/MD
Sample : VL1208ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

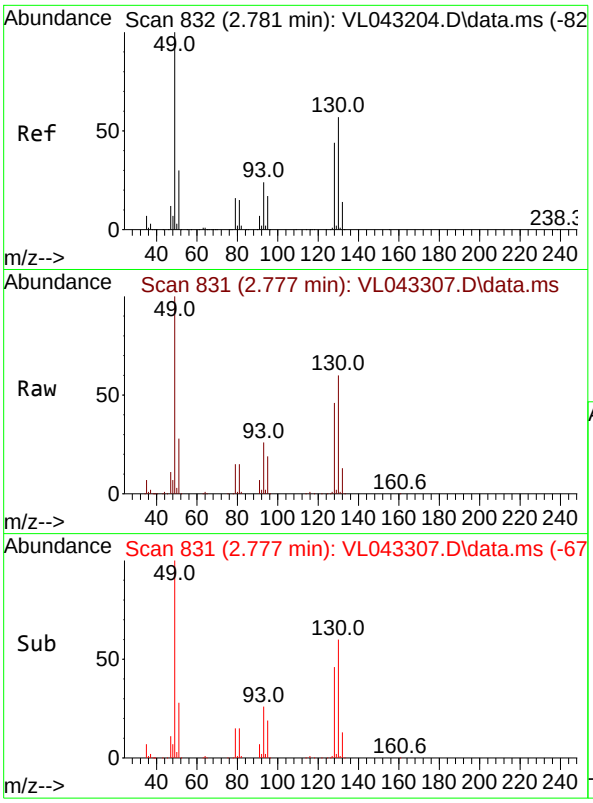
Quant Time: Dec 09 00:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

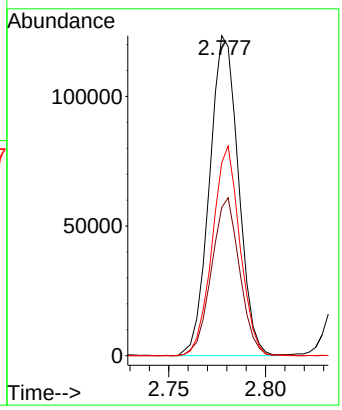




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 49 Resp: 12837

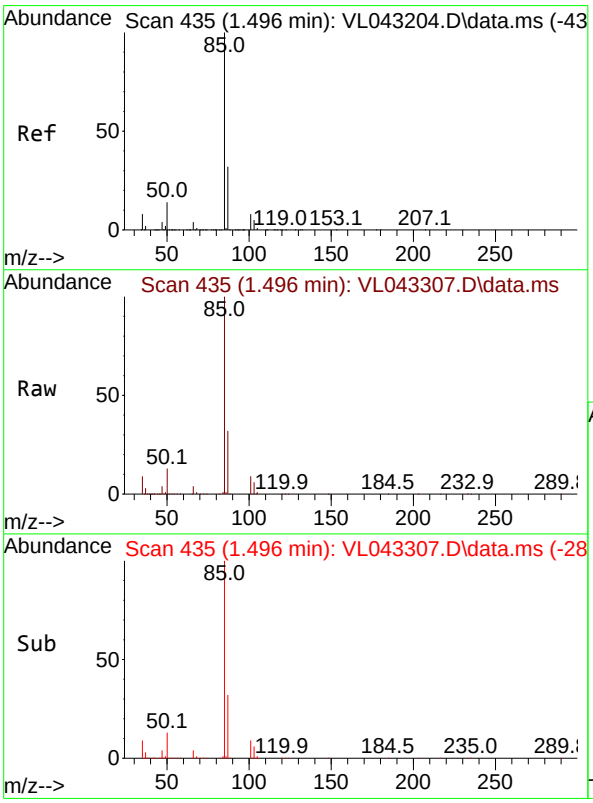
Ion	Ratio	Lower	Upper
49	100		
128	48.0	23.0	69.0
130	62.5	29.9	89.7



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Manual Integrations
APPROVED

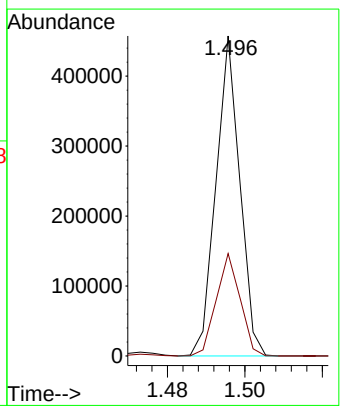
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

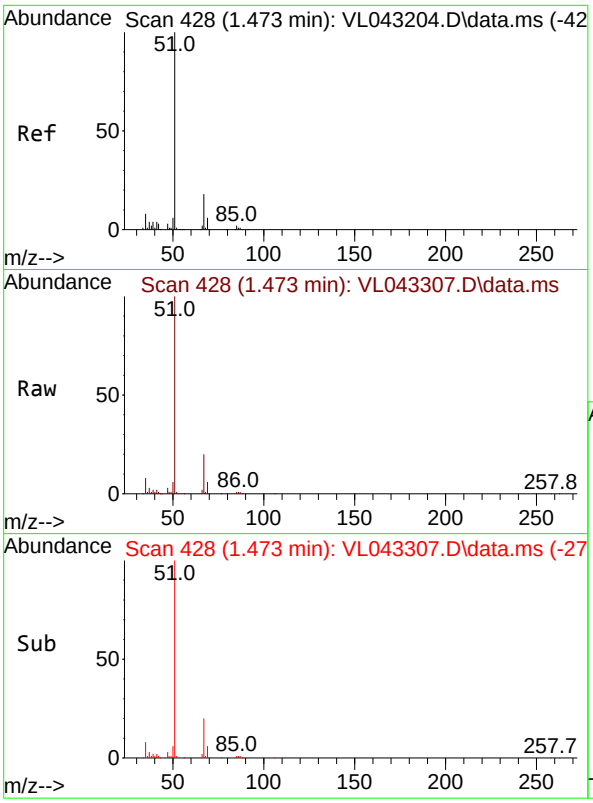


#2
Dichlorodifluoromethane
Concen: 10.800 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 85 Resp: 195547

Ion	Ratio	Lower	Upper
85	100		
87	32.0	25.4	38.2

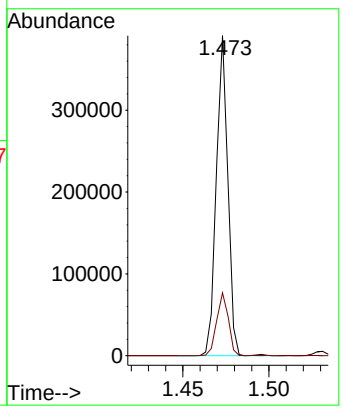




#3
Chlorodifluoromethane
Concen: 10.206 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 51 Resp: 18173

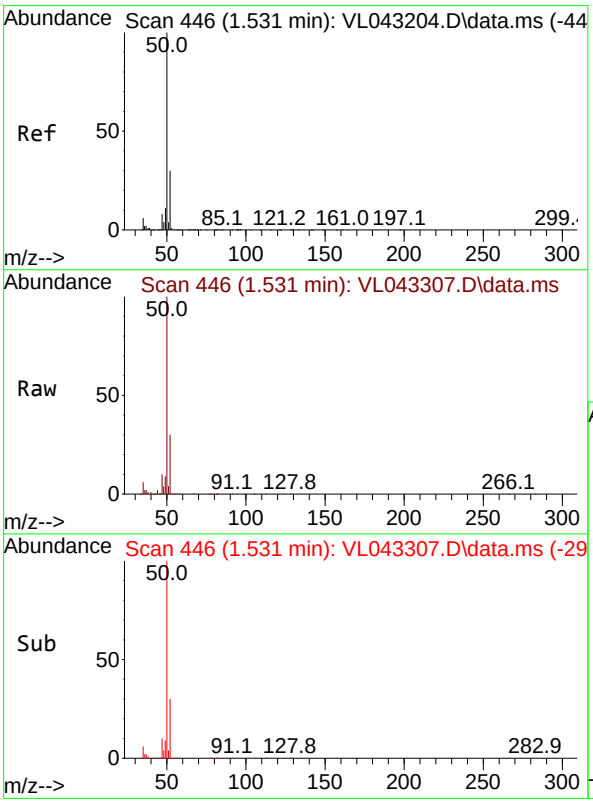
Ion	Ratio	Lower	Upper
51	100		
67	19.9	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Manual Integrations
APPROVED

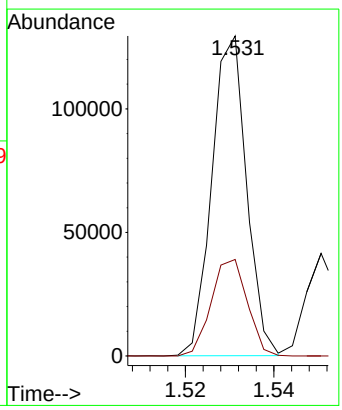
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

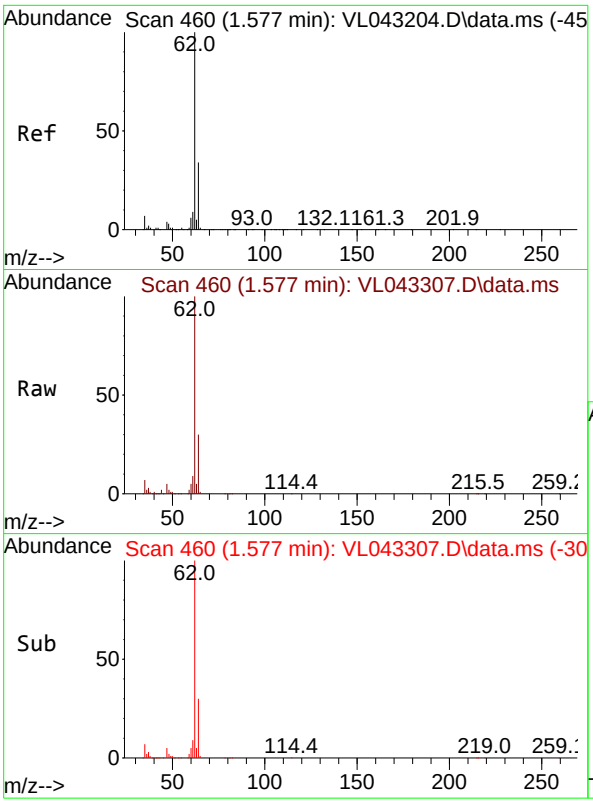


#4
Chloromethane
Concen: 10.423 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 50 Resp: 70563

Ion	Ratio	Lower	Upper
50	100		
52	30.2	24.1	36.1

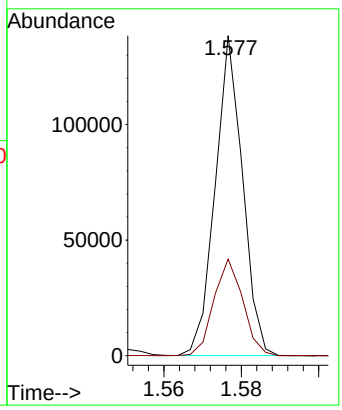




#5
Vinyl Chloride
Concen: 9.174 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 62 Resp: 6792

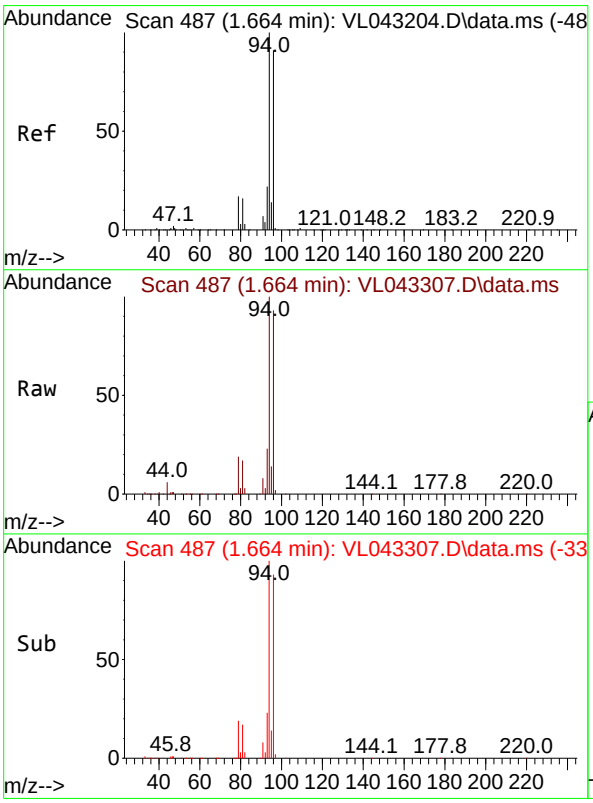
Ion	Ratio	Lower	Upper
62	100		
64	30.2	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Manual Integrations
APPROVED

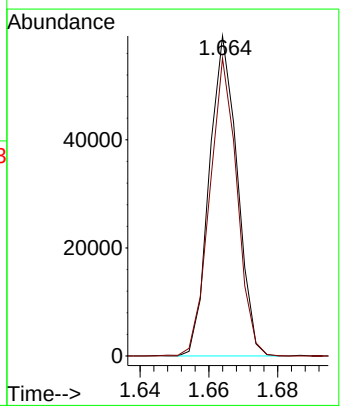
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

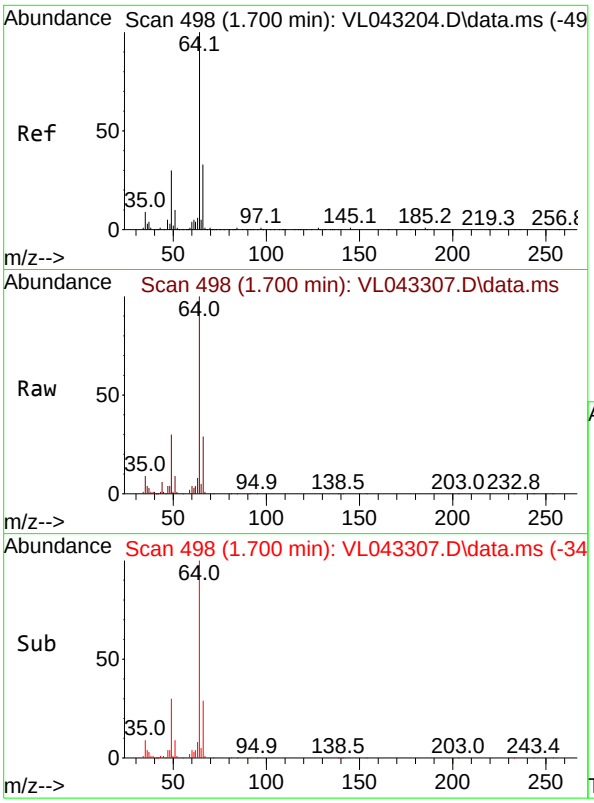


#6
Bromomethane
Concen: 9.340 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 94 Resp: 33521

Ion	Ratio	Lower	Upper
94	100		
96	93.0	72.9	109.3

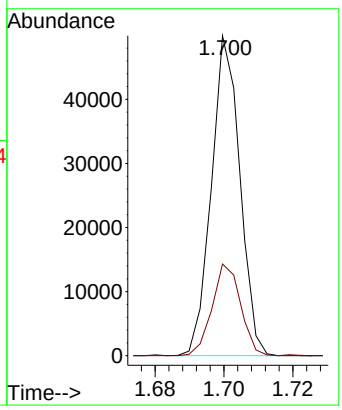




#7
Chloroethane
Concen: 9.919 ppbv
RT: 1.700 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 64 Resp: 2860

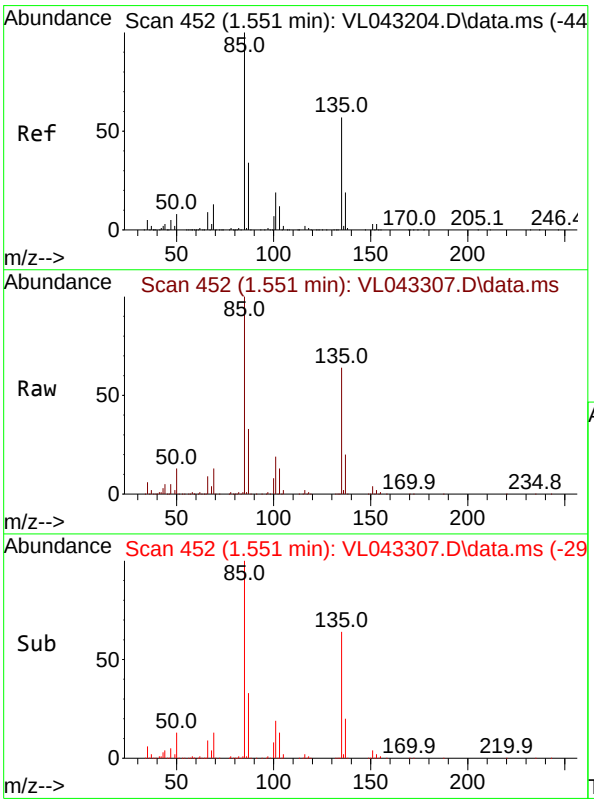
Ion	Ratio	Lower	Upper
64	100		
66	28.6	26.8	40.2



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Manual Integrations
APPROVED

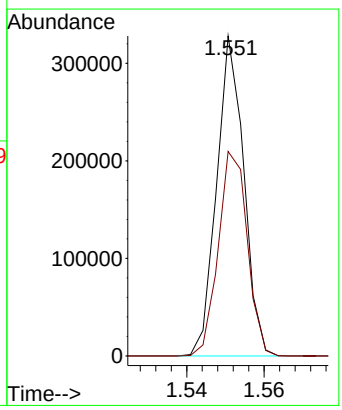
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

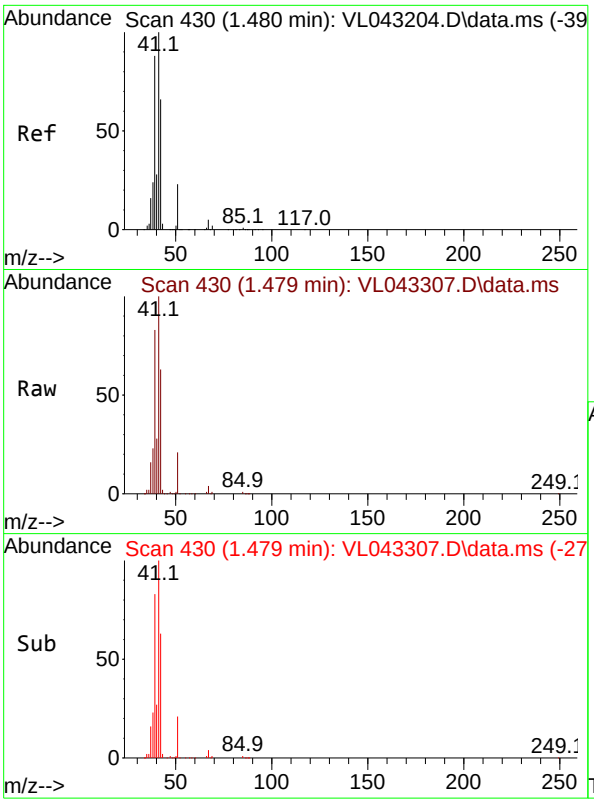


#8
Dichlorotetrafluoroethane
Concen: 10.601 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 85 Resp: 159668

Ion	Ratio	Lower	Upper
85	100		
135	68.3	52.6	79.0

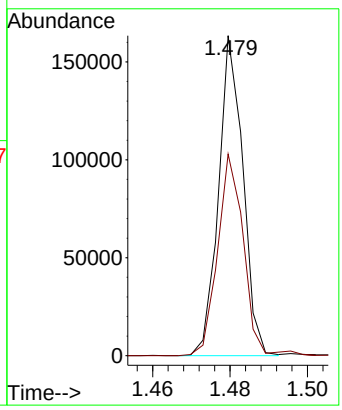




#9
Propene
Concen: 9.445 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 41 Resp: 7141

Ion	Ratio	Lower	Upper
41	100		
42	67.1	3.7	5.5#



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

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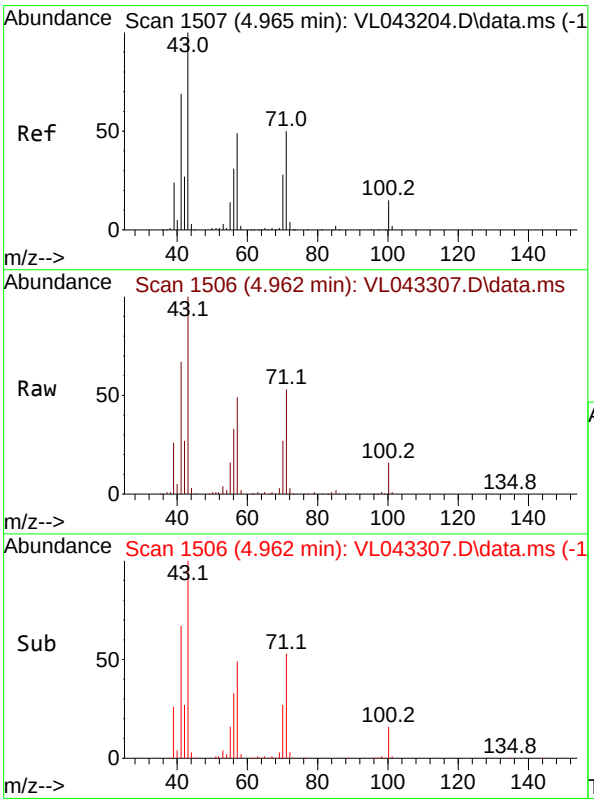
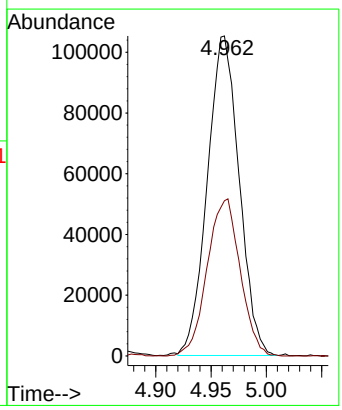
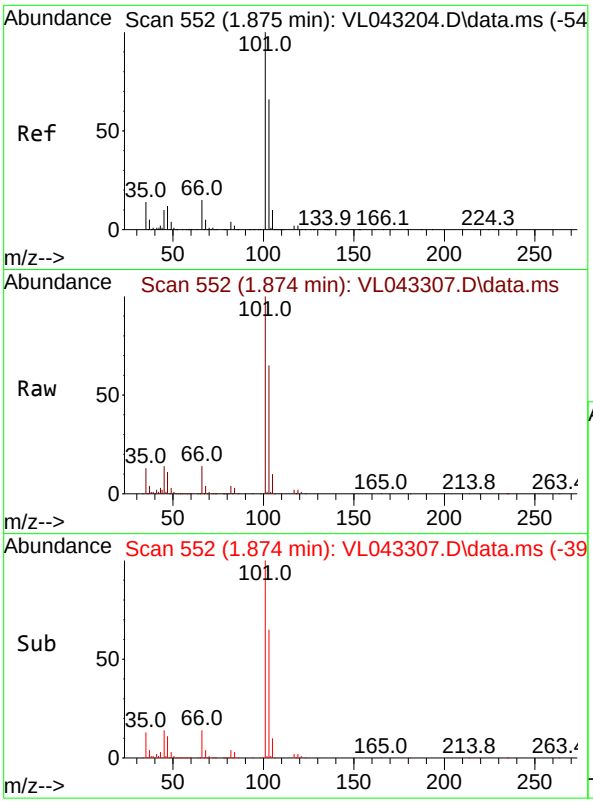


#10
Heptane
Concen: 9.355 ppbv
RT: 4.962 min Scan# 1506
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 43 Resp: 210516

Ion	Ratio	Lower	Upper
43	100		
57	50.9	39.7	59.5

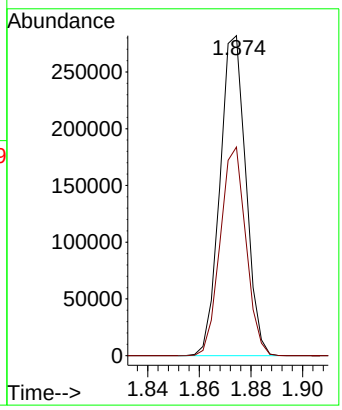




#11
Trichlorofluoromethane
Concen: 11.219 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:101 Resp: 19680

Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.6	79.0



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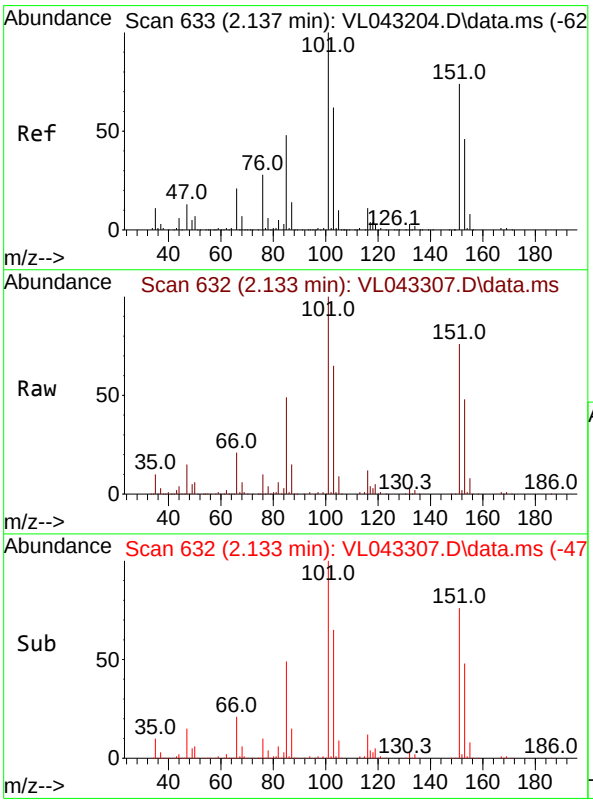
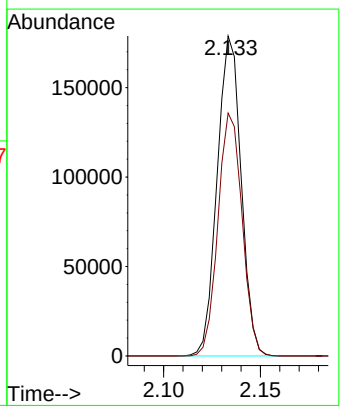
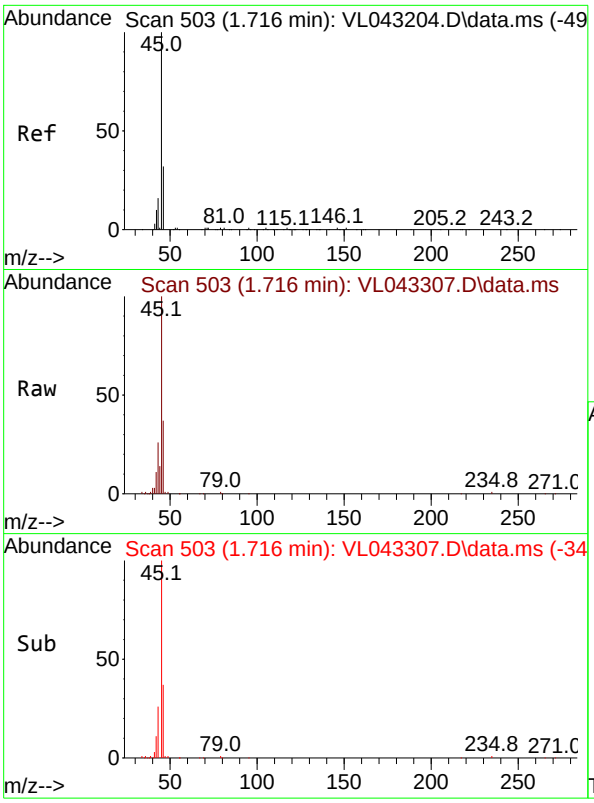


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.244 ppbv
RT: 2.133 min Scan# 632
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:101 Resp: 153996

Ion	Ratio	Lower	Upper
101	100		
151	76.4	59.2	88.8

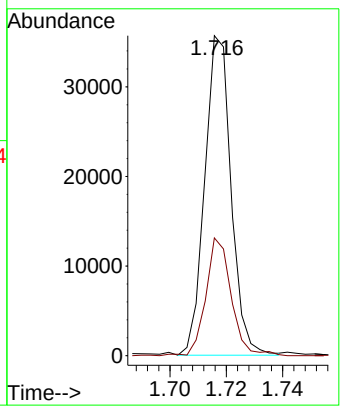




#13
Ethanol
Concen: 8.726 ppbv
RT: 1.716 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 45 Resp: 2320

Ion	Ratio	Lower	Upper
45	100		
46	35.5	15.0	59.8



Instrument :
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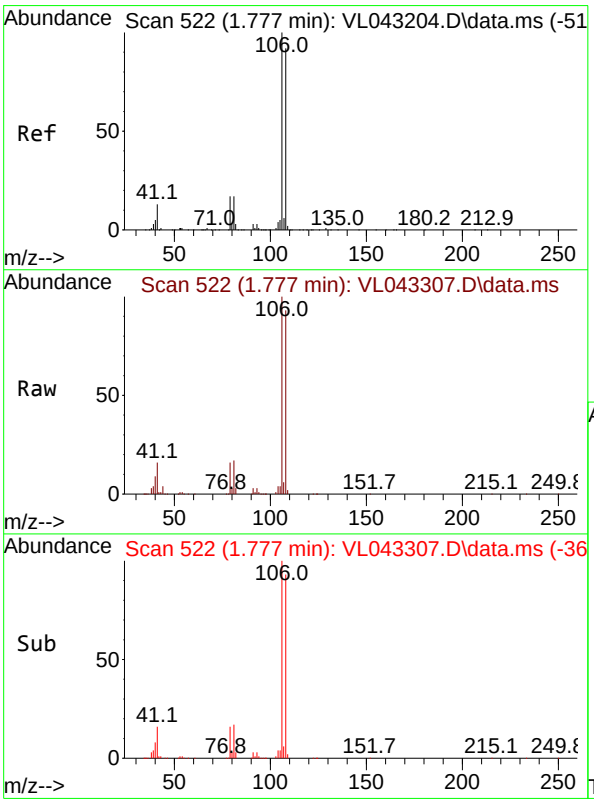
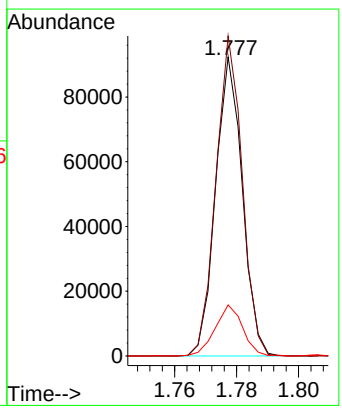
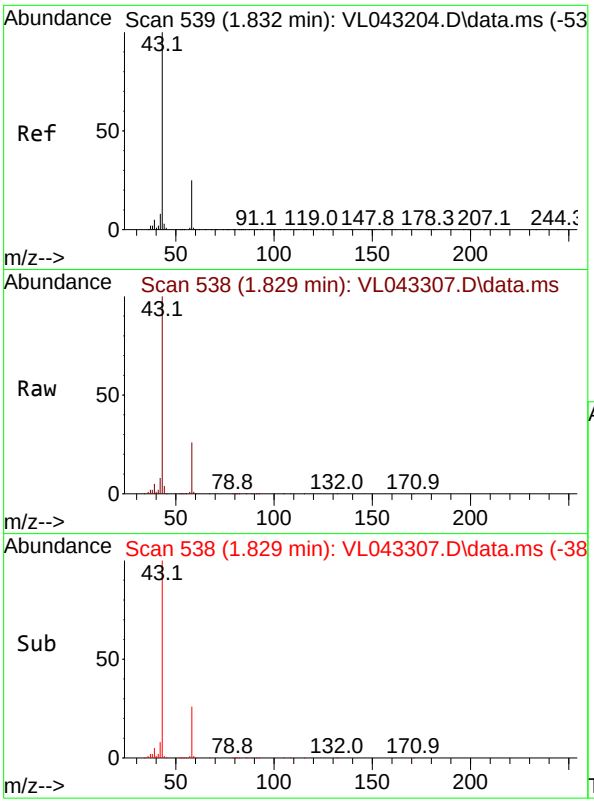


#14
Bromoethene
Concen: 10.533 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:108 Resp: 55304

Ion	Ratio	Lower	Upper
108	100		
106	104.9	88.9	133.3
79	17.7	16.5	24.7

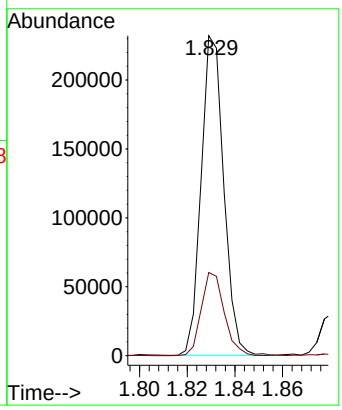




#15
Acetone
Concen: 8.567 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 43 Resp: 15278

Ion	Ratio	Lower	Upper
43	100		
58	26.6	20.7	31.1



Instrument :
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ClientSampleId :
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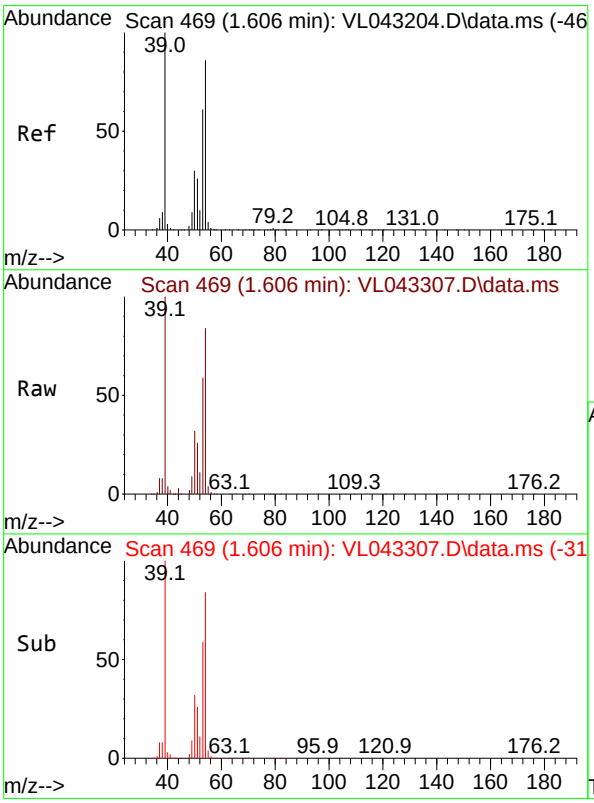
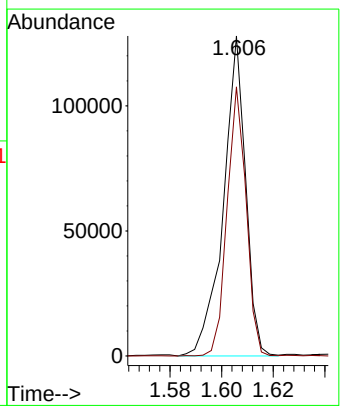
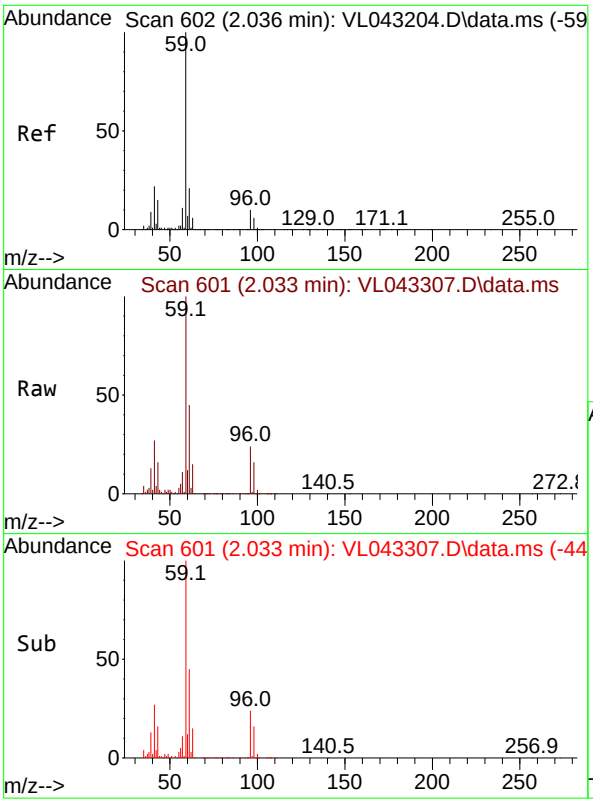


#16
1,3-Butadiene
Concen: 9.645 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 39 Resp: 76687

Ion	Ratio	Lower	Upper
39	100		
54	71.8	59.4	89.2

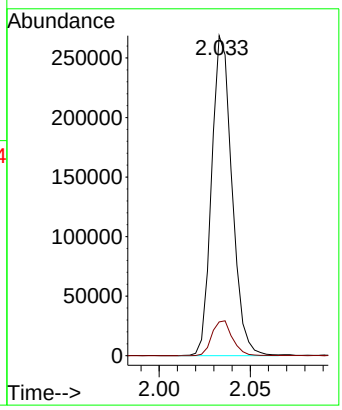




#17
tert-Butyl alcohol
Concen: 8.942 ppbv
RT: 2.033 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 59 Resp: 20933

Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
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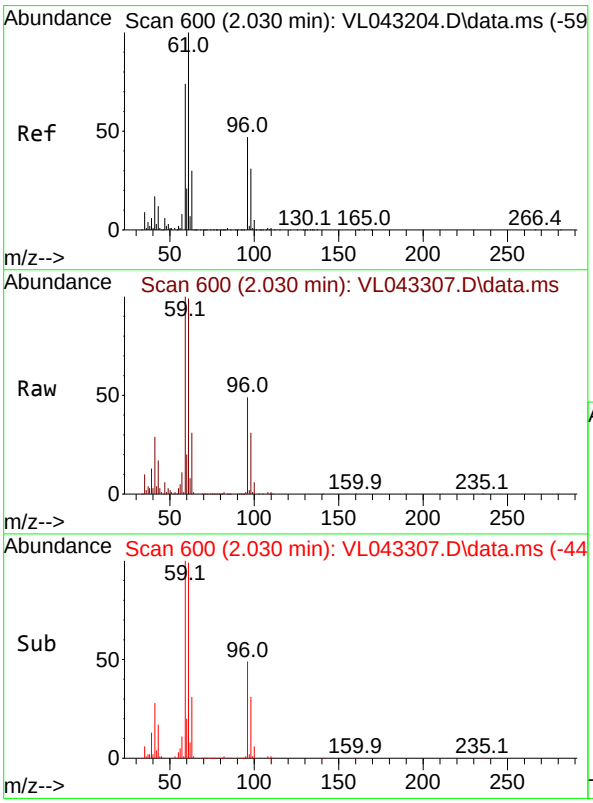
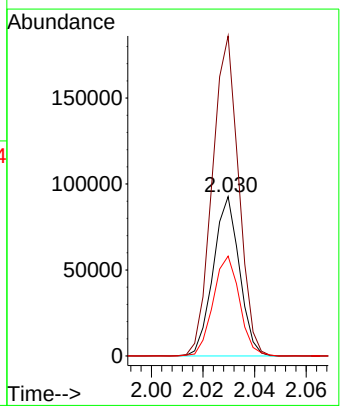
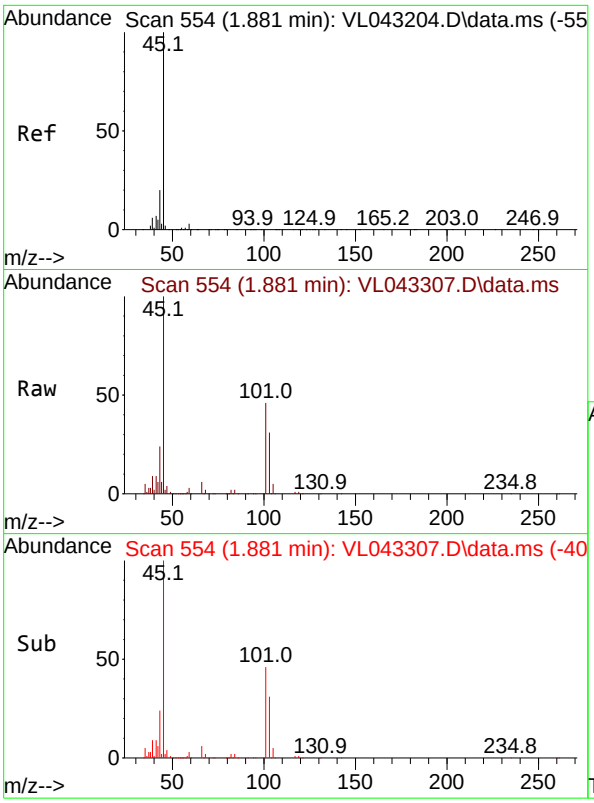


#18
1,1-Dichloroethene
Concen: 10.237 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 96 Resp: 65282

Ion	Ratio	Lower	Upper
96	100		
61	200.9	170.6	255.8
98	62.7	52.2	78.4

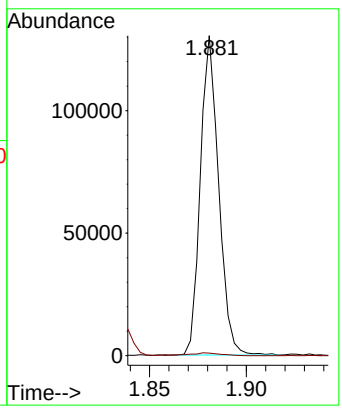




#19
Isopropyl Alcohol
Concen: 8.506 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 45 Resp: 8572

Ion	Ratio	Lower	Upper
45	100		
58	47.5	31.3	46.9#



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

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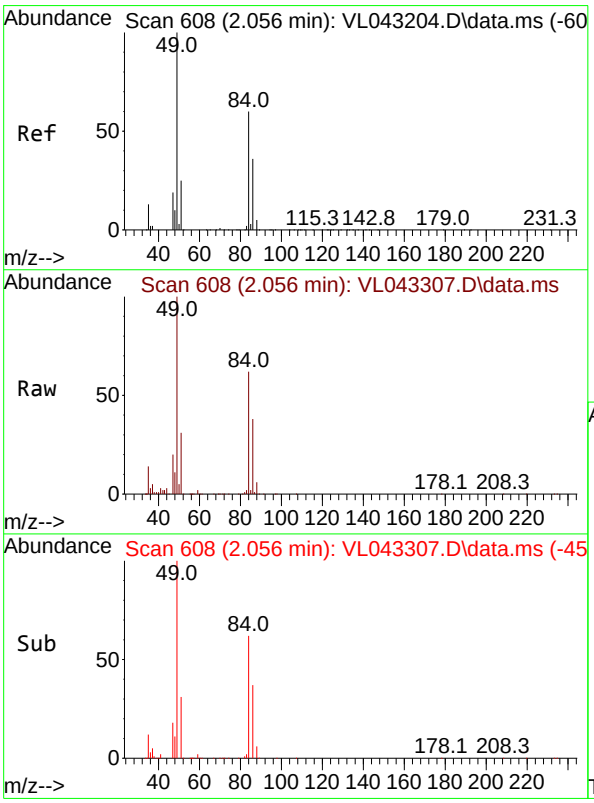
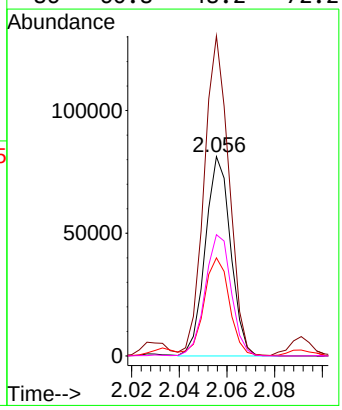
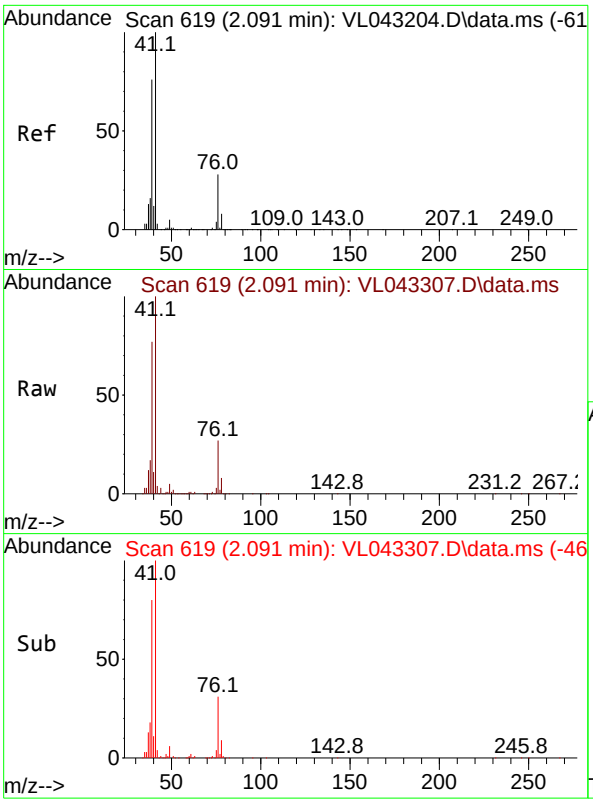


#20
Methylene Chloride
Concen: 11.551 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 84 Resp: 60065

Ion	Ratio	Lower	Upper
84	100		
49	158.6	132.9	199.3
51	48.9	34.8	52.2
86	60.8	48.2	72.2

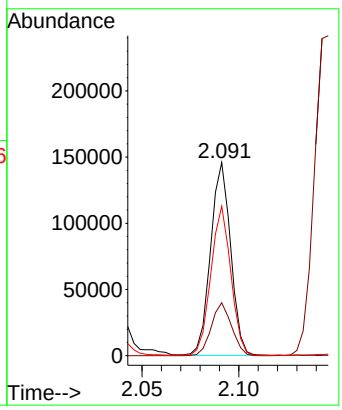




#21
Allyl Chloride
Concen: 8.773 ppbv
RT: 2.091 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 41 Resp: 10527

Ion	Ratio	Lower	Upper
41	100		
76	27.6	22.1	33.1
39	76.5	61.0	91.4



Instrument :
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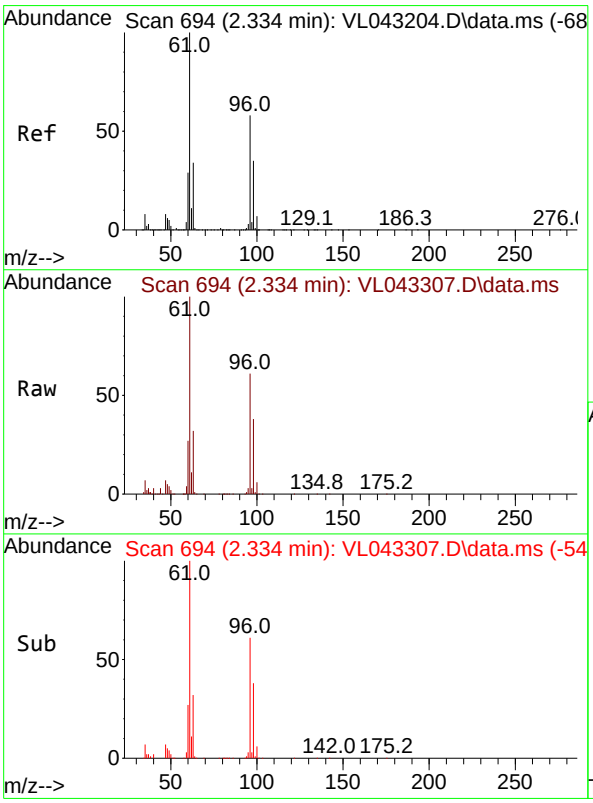
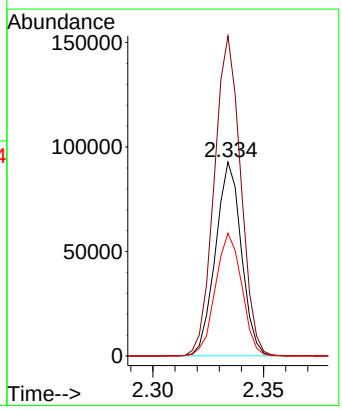
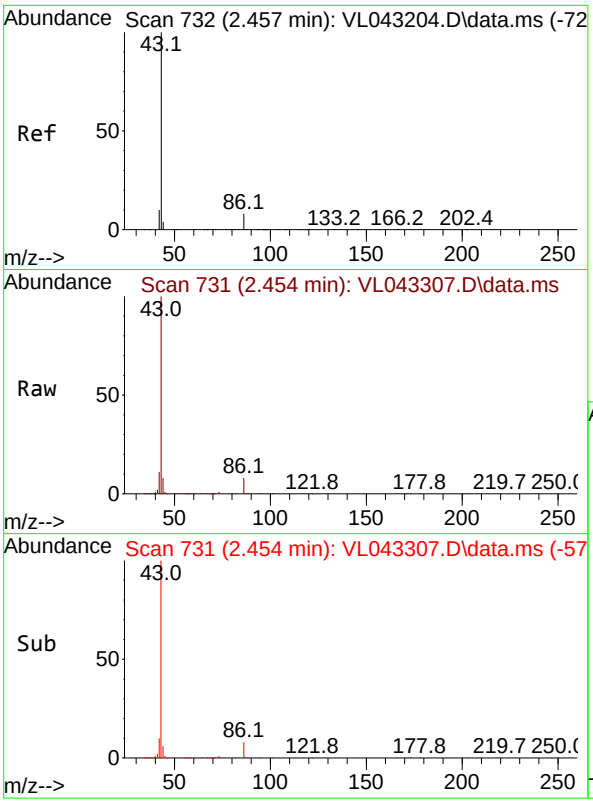


#22
trans-1,2-Dichloroethene
Concen: 10.348 ppbv
RT: 2.334 min Scan# 694
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 96 Resp: 75422

Ion	Ratio	Lower	Upper
96	100		
61	165.0	139.0	208.6
98	63.3	49.4	74.2

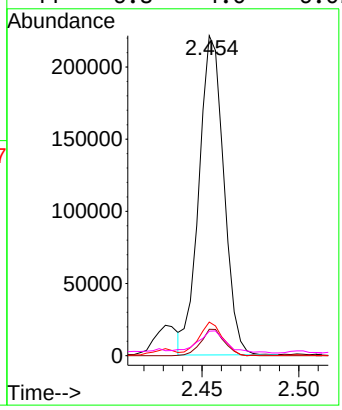




#23
Vinyl Acetate
Concen: 9.159 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 43 Resp: 19720

Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.2	9.2
42	10.1	8.0	12.0
44	6.8	4.0	6.0#



Instrument :
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ClientSampleId :
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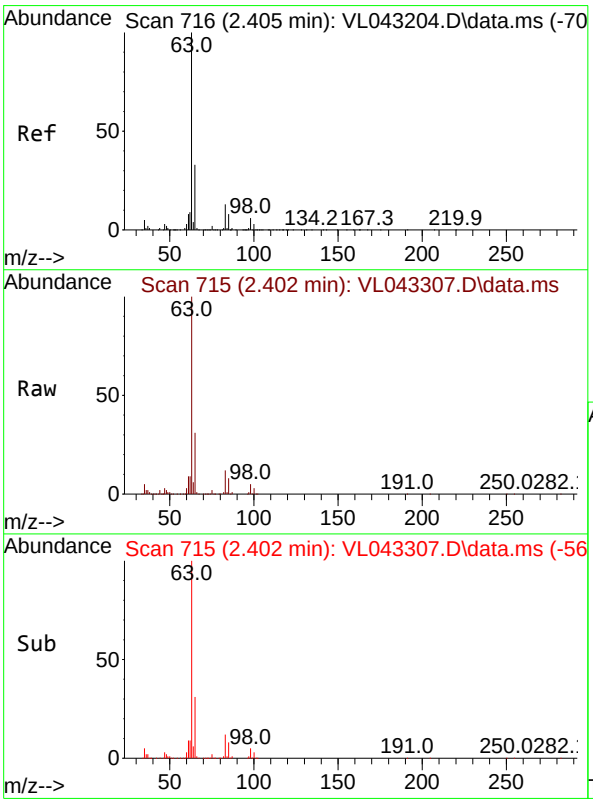
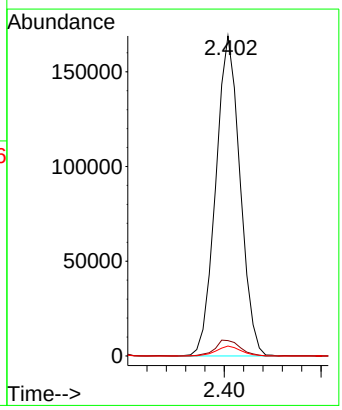
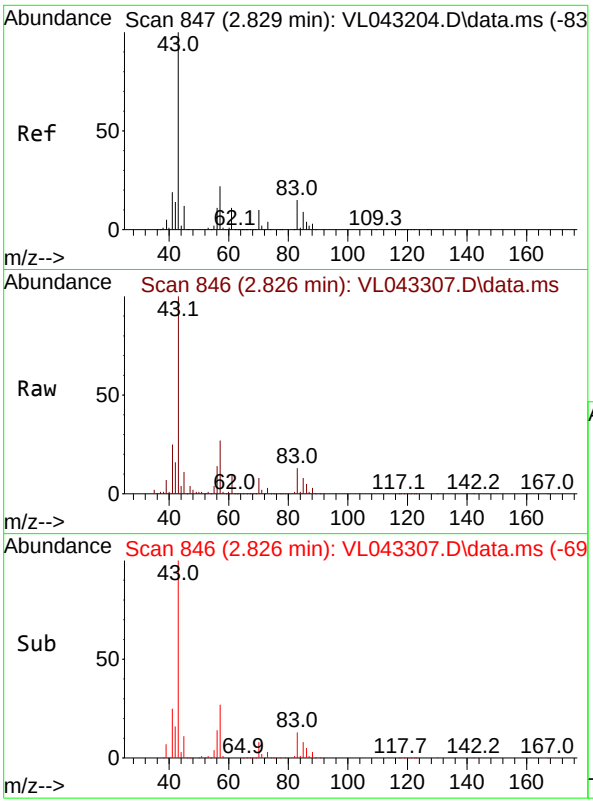


#24
1,1-Dichloroethane
Concen: 10.453 ppbv
RT: 2.402 min Scan# 715
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 63 Resp: 147058

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.8	8.4
100	3.1	1.3	3.9

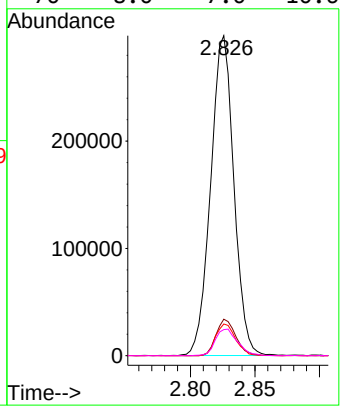




#25
Ethyl Acetate
Concen: 9.678 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 43 Resp: 37229

Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.1	12.1
61	8.6	7.0	10.4
70	8.0	7.0	10.6



Instrument :
MSVOA_L
ClientSampleId :
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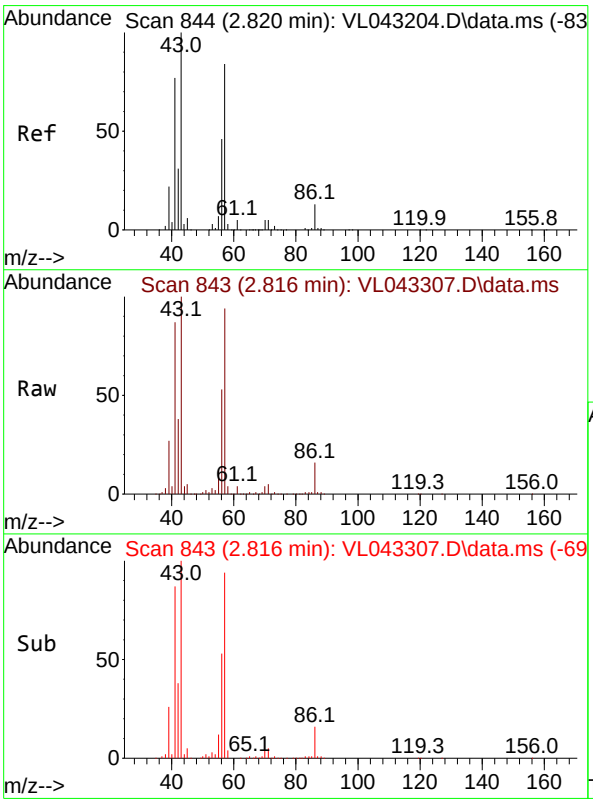
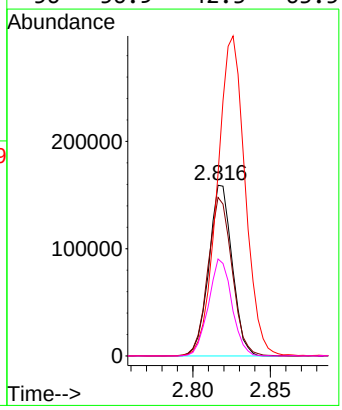
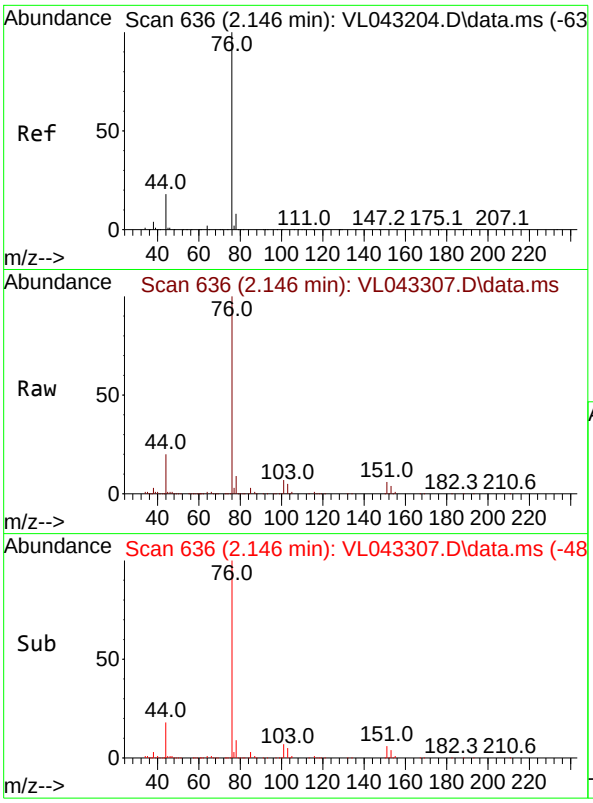


#26
Hexane
Concen: 9.898 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 57 Resp: 166920

Ion	Ratio	Lower	Upper
57	100		
41	96.6	74.6	111.8
43	224.2	179.0	268.4
56	56.9	42.3	63.5

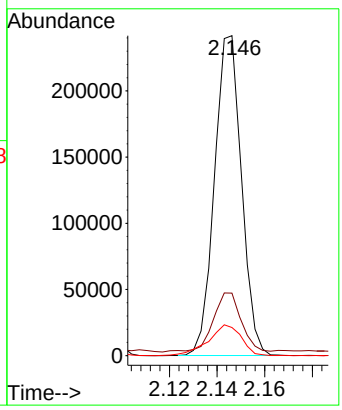




#27
Carbon Disulfide
Concen: 11.057 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 76 Resp: 19036

Ion	Ratio	Lower	Upper
76	100		
44	19.1	16.1	24.1
78	11.8	9.6	14.4



Instrument :
MSVOA_L
ClientSampleId :
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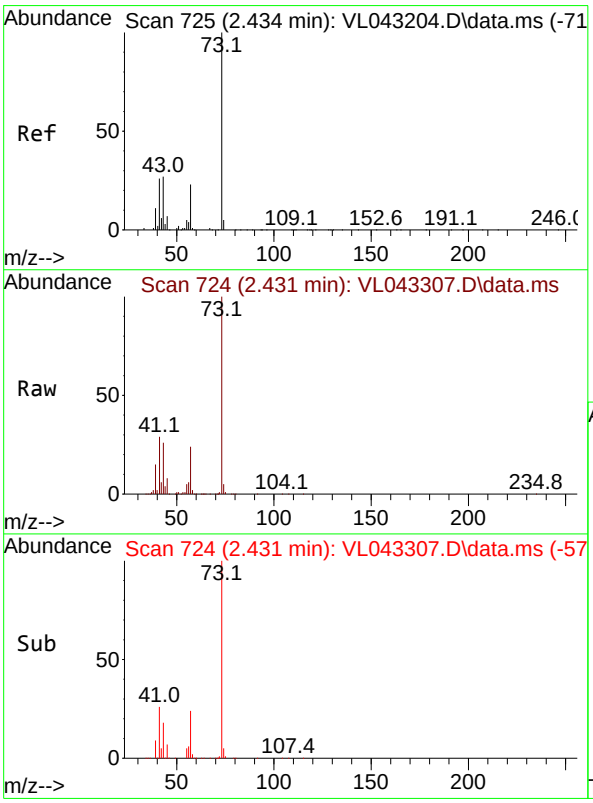
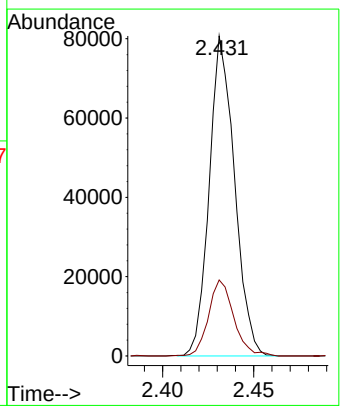
Supervised By :Mahesh Dadoda 12/11/2025

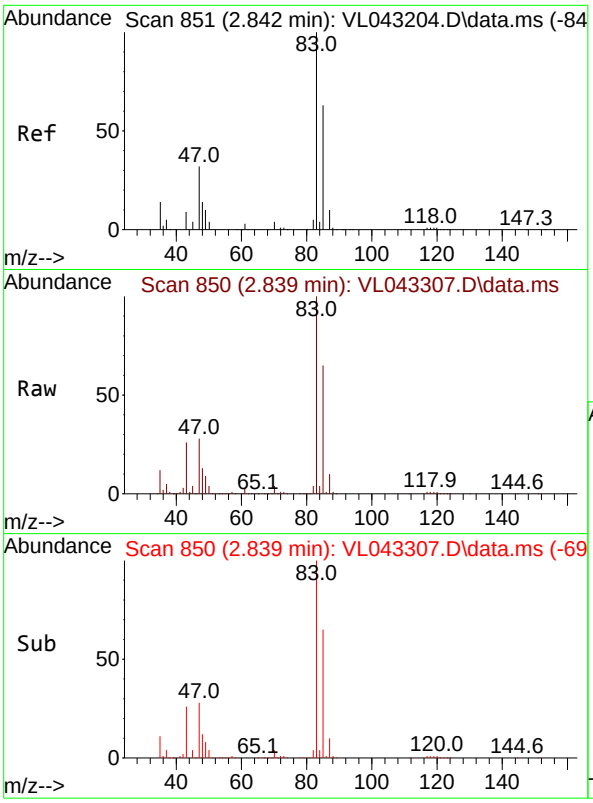


#28
Methyl tert-Butyl Ether
Concen: 9.389 ppbv
RT: 2.431 min Scan# 724
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 73 Resp: 77723

Ion	Ratio	Lower	Upper
73	100		
57	23.8	19.8	29.8

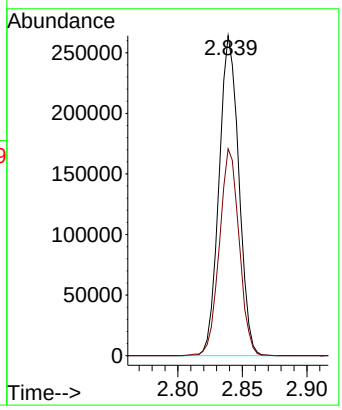




#29
Chloroform
Concen: 11.703 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 83 Resp: 28054

Ion	Ratio	Lower	Upper
83	100		
85	64.6	50.5	75.7



Instrument :
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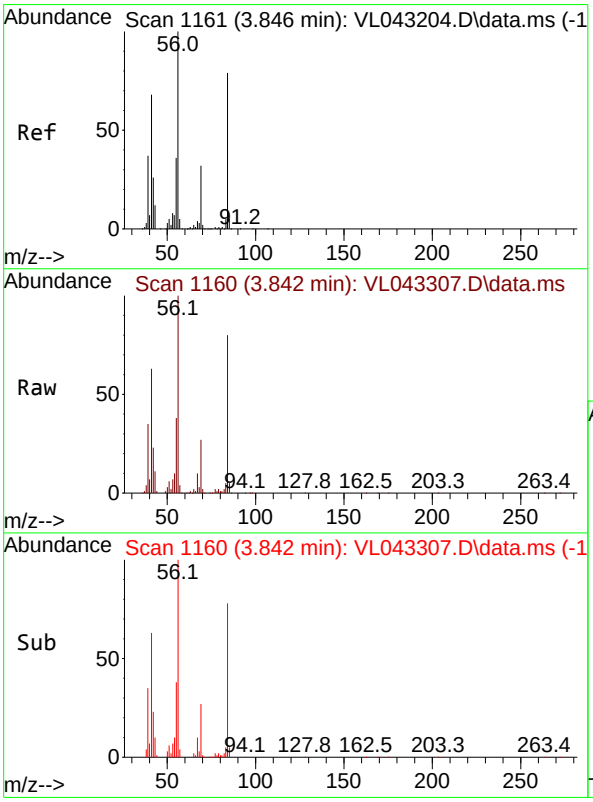
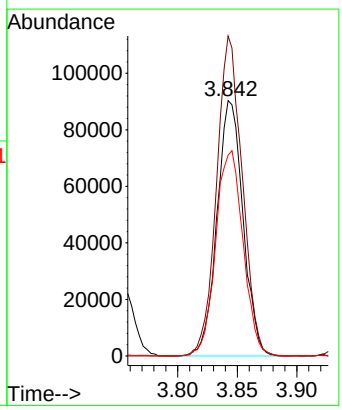
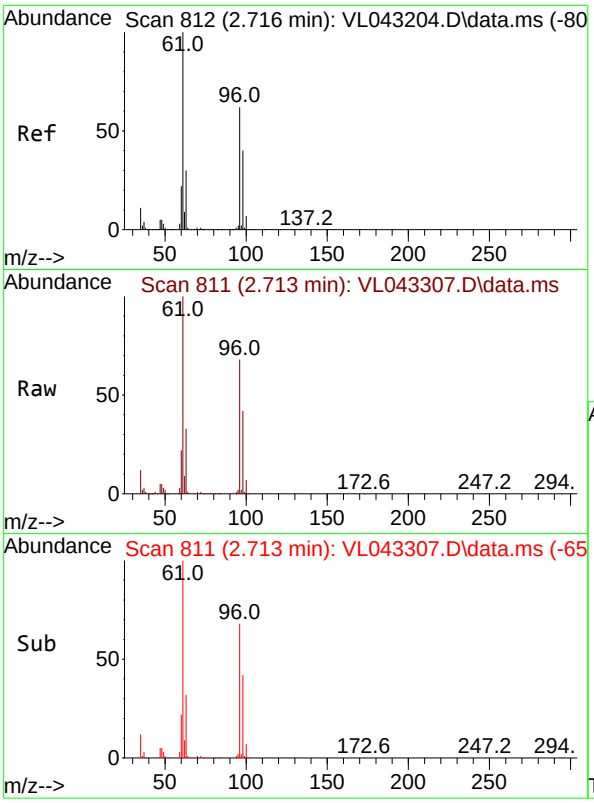


#30
Cyclohexane
Concen: 9.681 ppbv
RT: 3.842 min Scan# 1160
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 84 Resp: 136887

Ion	Ratio	Lower	Upper
84	100		
56	123.4	104.7	157.1
41	84.6	69.0	103.6

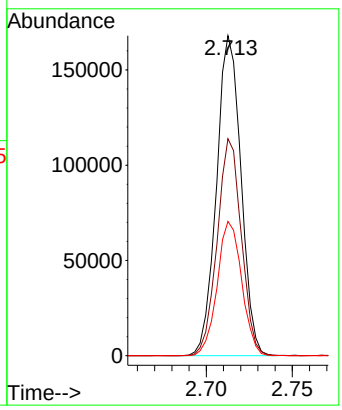




#31
cis-1,2-Dichloroethene
Concen: 9.915 ppbv
RT: 2.713 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 61 Resp: 16619

Ion	Ratio	Lower	Upper
61	100		
96	67.8	49.3	73.9
98	42.0	32.1	48.1



Instrument :
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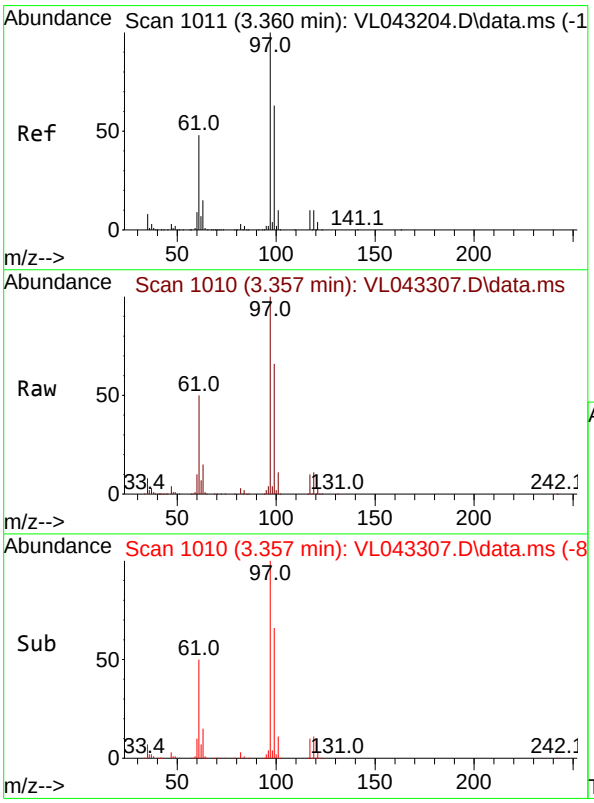
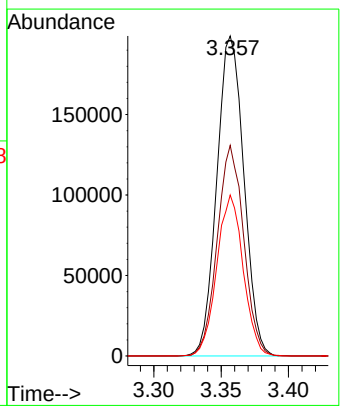
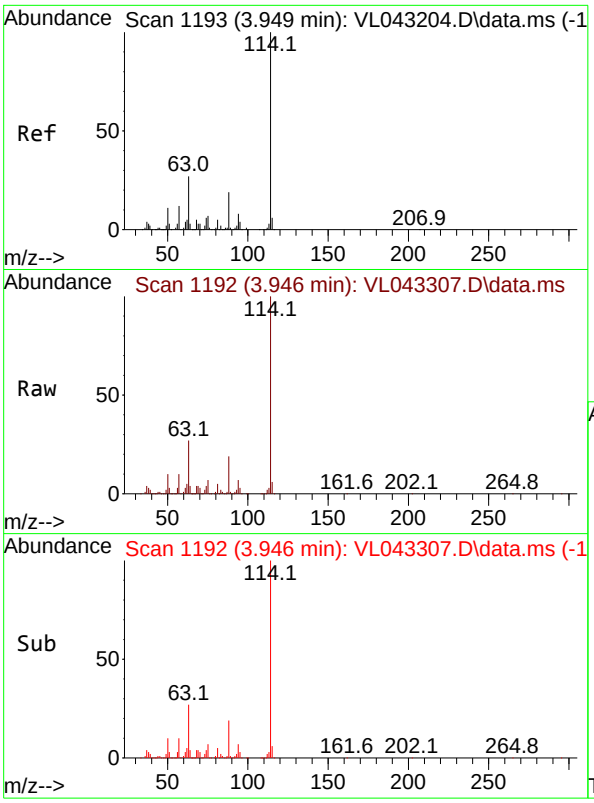


#32
1,1,1-Trichloroethane
Concen: 10.886 ppbv
RT: 3.357 min Scan# 1010
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 97 Resp: 278163

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.3	75.5
61	49.0	38.9	58.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:114 Resp: 319254

Ion	Ratio	Lower	Upper
114	100		
63	25.8	21.0	31.6
88	17.9	14.9	22.3

Instrument :
MSVOA_L
ClientSampleId :
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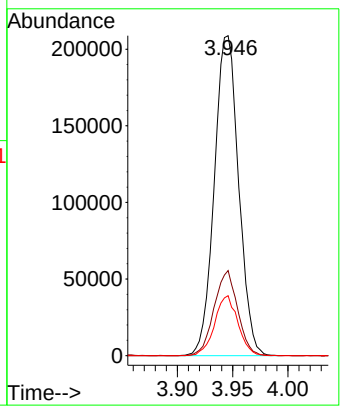
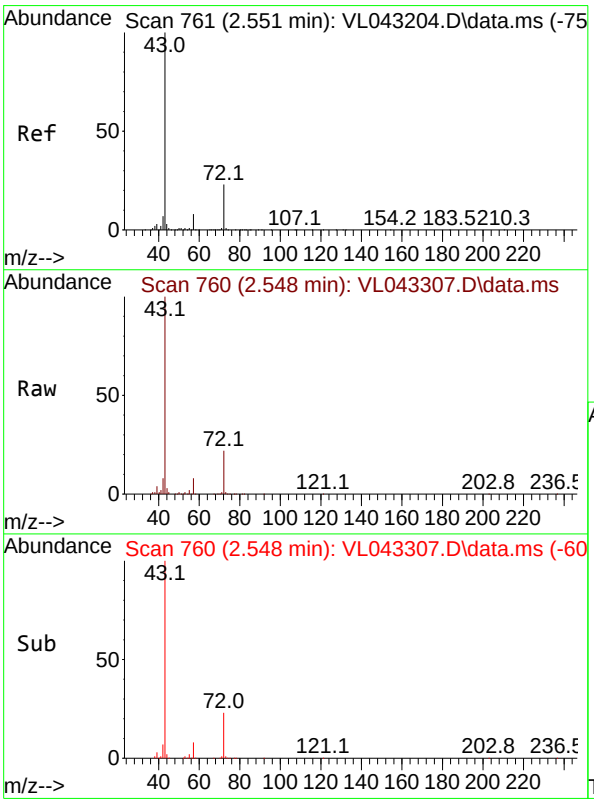
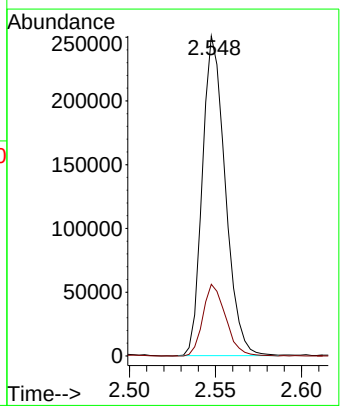


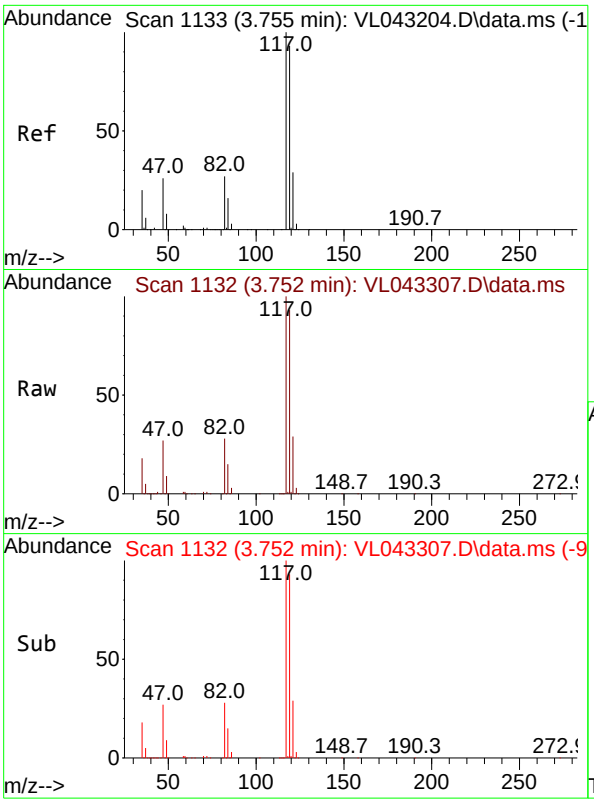


#34
2-Butanone
Concen: 10.307 ppbv
RT: 2.548 min Scan# 760
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 43 Resp: 232285

Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.1	27.1

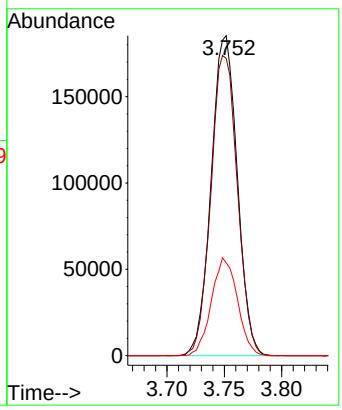




#35
Carbon Tetrachloride
Concen: 12.109 ppbv
RT: 3.752 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:117 Resp: 29343

Ion	Ratio	Lower	Upper
117	100		
119	92.9	74.6	112.0
121	29.0	23.2	34.8



Instrument :
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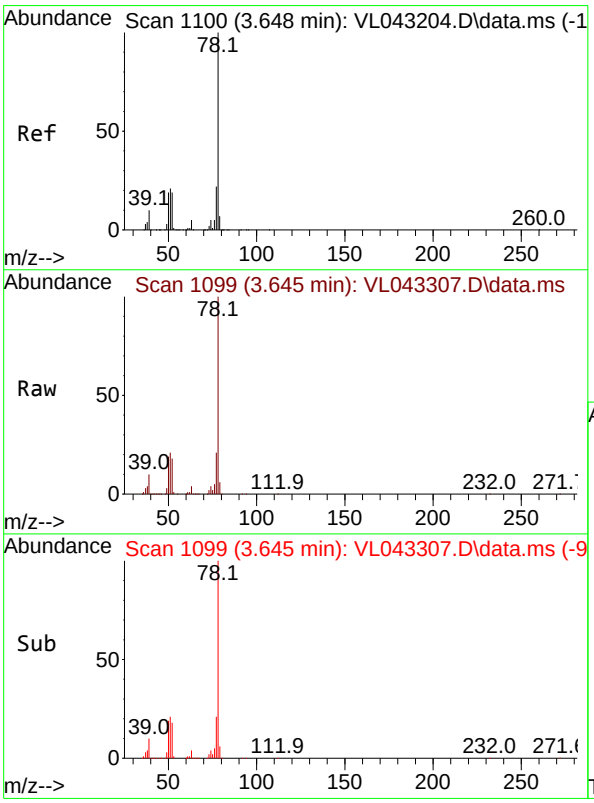
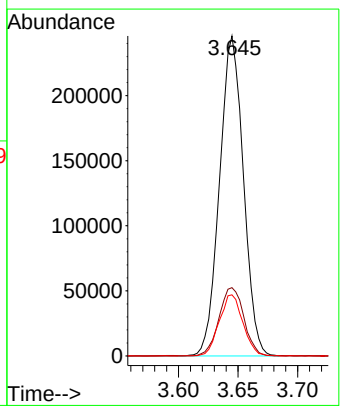
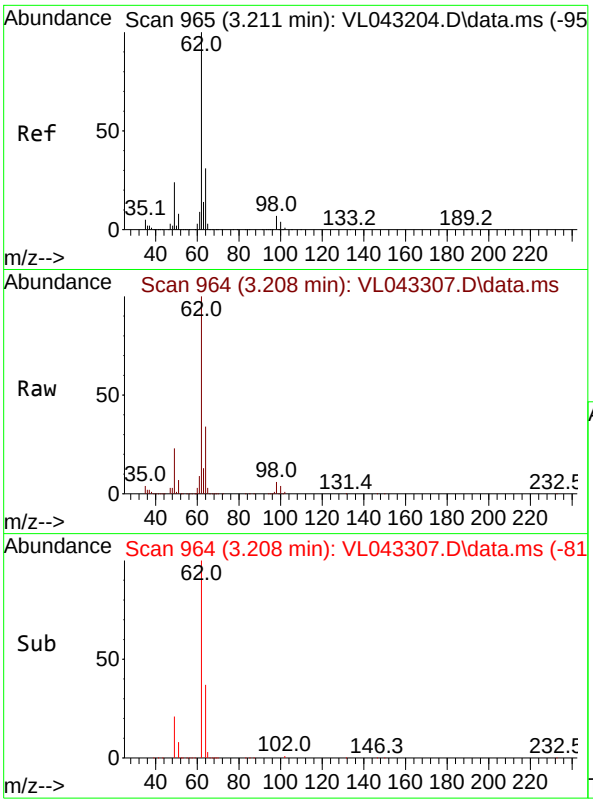


#36
Benzene
Concen: 11.194 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 78 Resp: 342251

Ion	Ratio	Lower	Upper
78	100		
77	21.3	17.5	26.3
50	19.1	15.5	23.3





#37
1,2-Dichloroethane
Concen: 11.880 ppbv
RT: 3.208 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 62 Resp: 21245

Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.5	8.3

Instrument :
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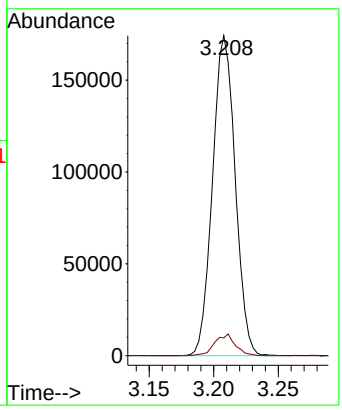
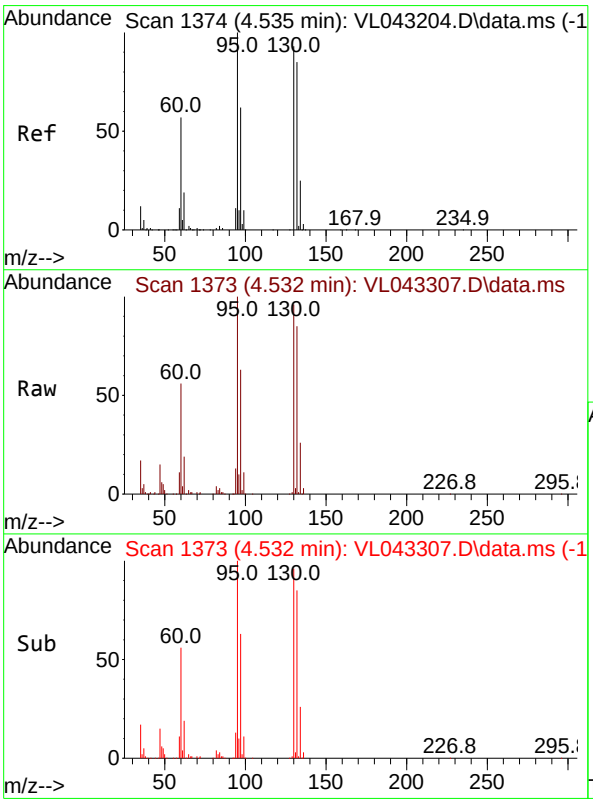
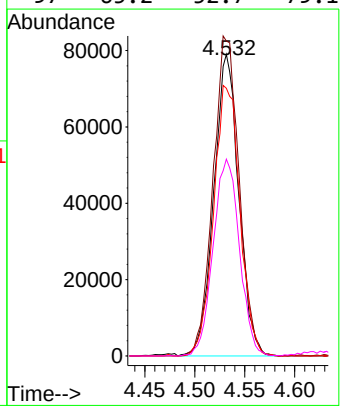


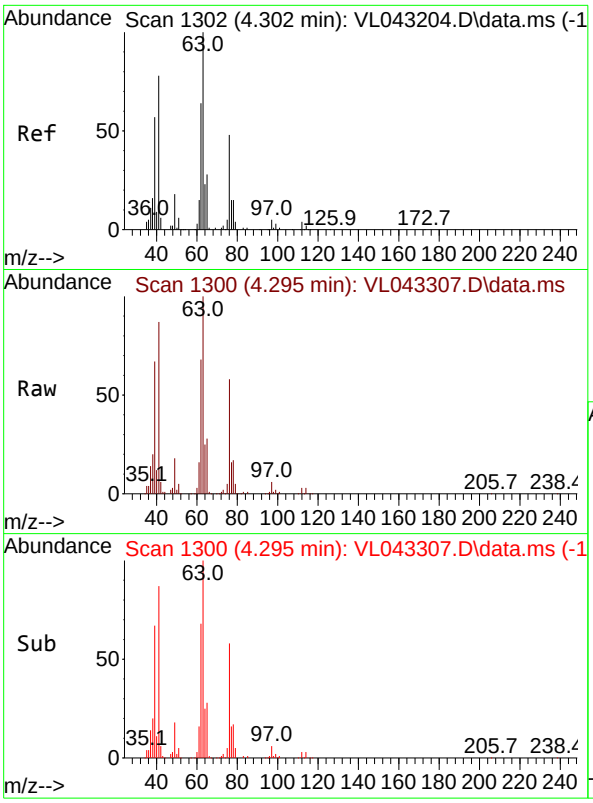


#38
Trichloroethene
Concen: 11.493 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:130 Resp: 137474

Ion	Ratio	Lower	Upper
130	100		
95	104.4	85.7	128.5
132	88.8	73.4	110.0
97	65.2	52.7	79.1

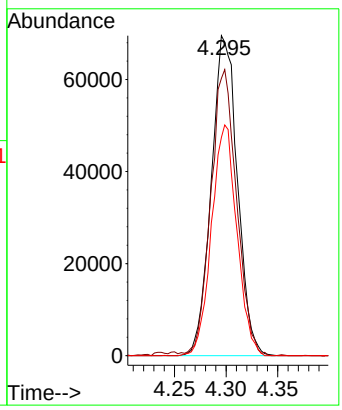




#39
1,2-Dichloropropane
Concen: 10.934 ppbv
RT: 4.295 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 63 Resp: 12234

Ion	Ratio	Lower	Upper
63	100		
41	86.4	62.6	93.8
62	68.2	51.0	76.6



Instrument :
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ClientSampleId :
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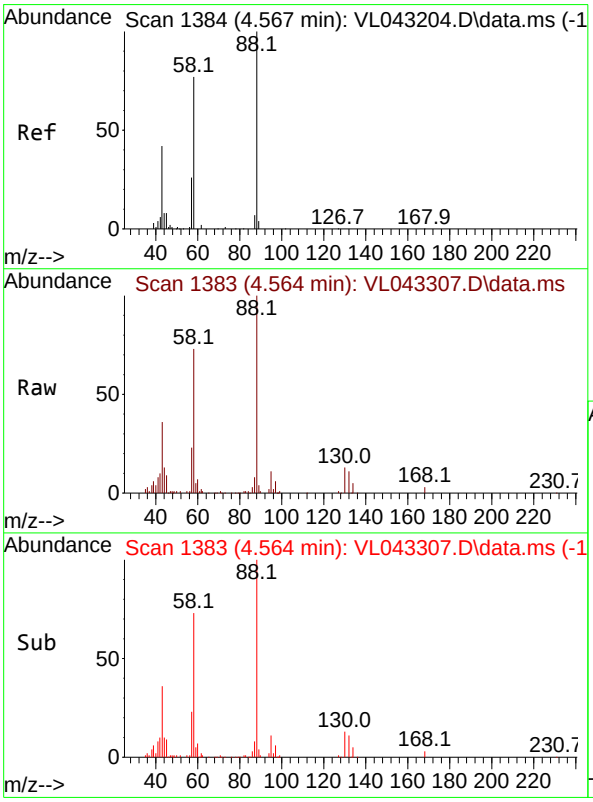
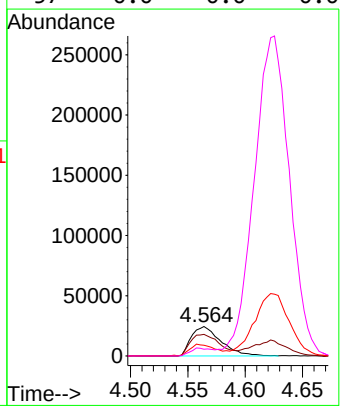
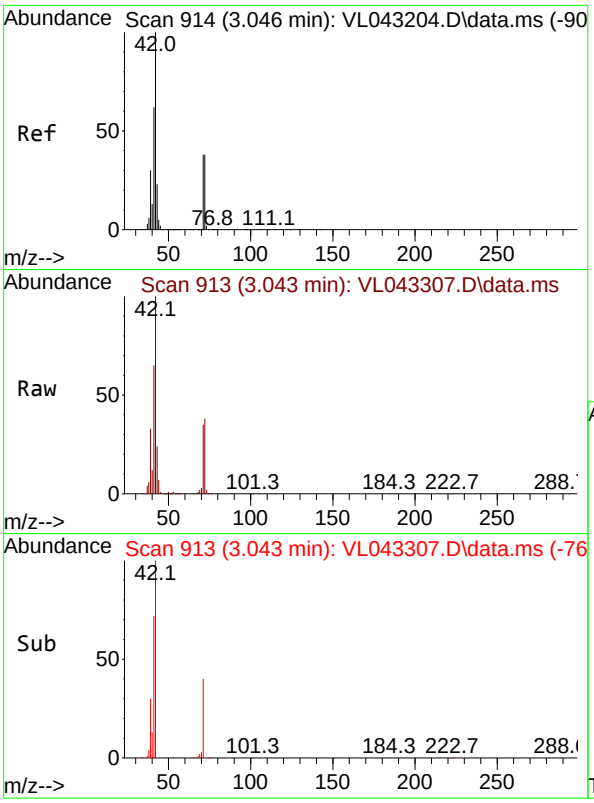


#40
1,4-Dioxane
Concen: 8.743 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 88 Resp: 43982

Ion	Ratio	Lower	Upper
88	100		
58	76.2	63.0	94.6
43	37.8	32.5	48.7
57	0.0	0.0	0.0

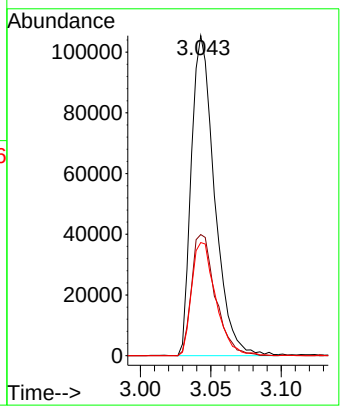




#41
Tetrahydrofuran
Concen: 9.747 ppbv
RT: 3.043 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 42 Resp: 12130

Ion	Ratio	Lower	Upper
42	100		
72	38.9	30.6	46.0
71	36.7	30.5	45.7



Instrument :
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ClientSampleId :
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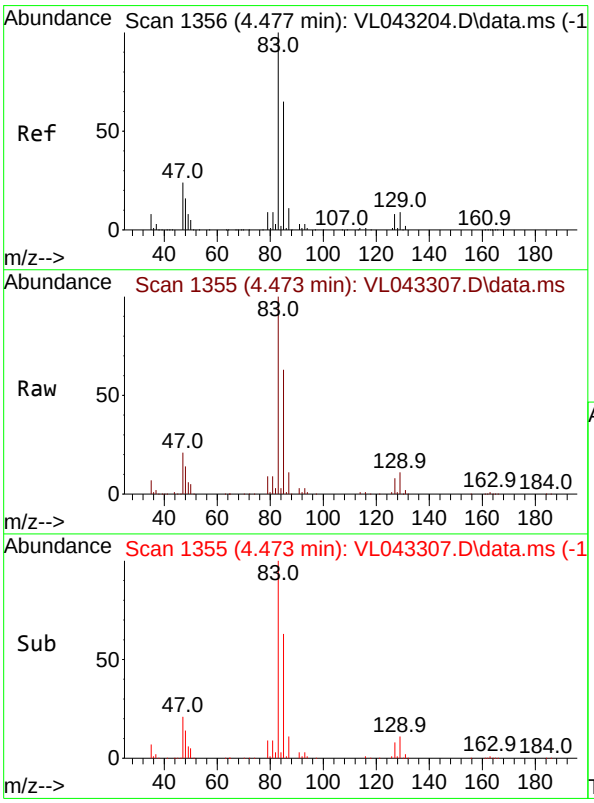
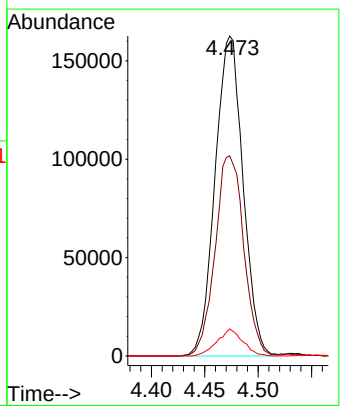
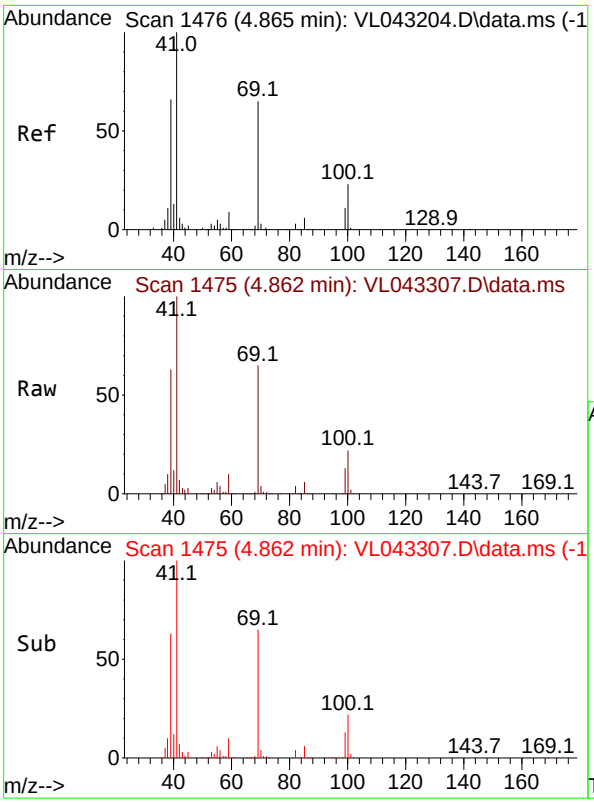


#42
Bromodichloromethane
Concen: 12.008 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 83 Resp: 296233

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.7	77.5
127	8.5	6.3	9.5

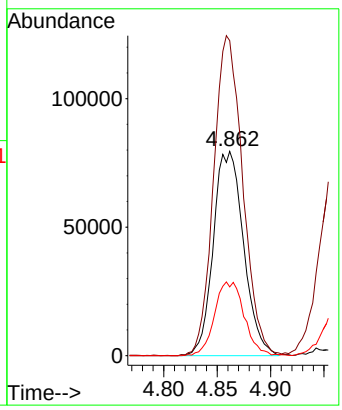




#43
Methyl Methacrylate
Concen: 9.654 ppbv
RT: 4.862 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 69 Resp: 15666

Ion	Ratio	Lower	Upper
69	100		
41	150.8	126.7	190.1
100	35.4	28.6	43.0



Instrument :
MSVOA_L
ClientSampleId :
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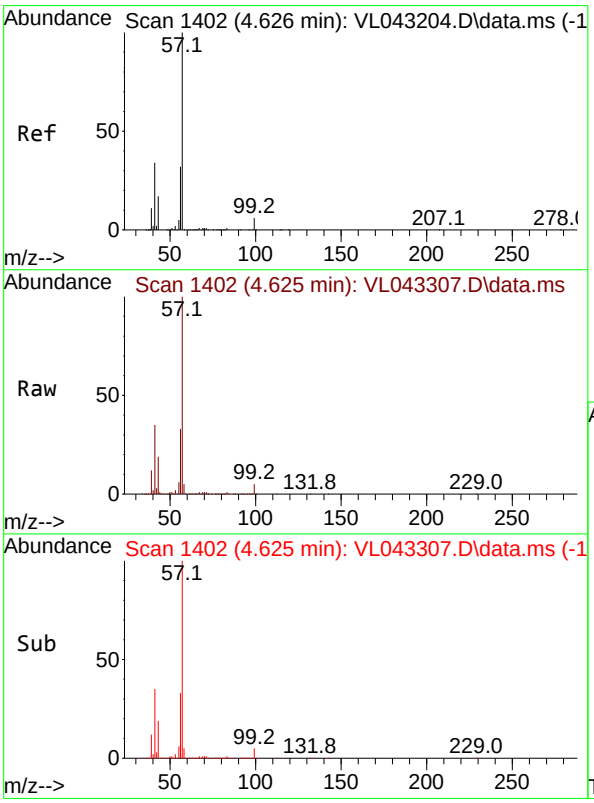
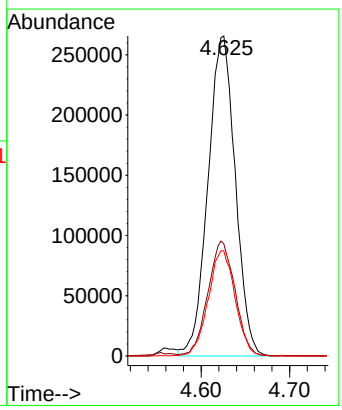
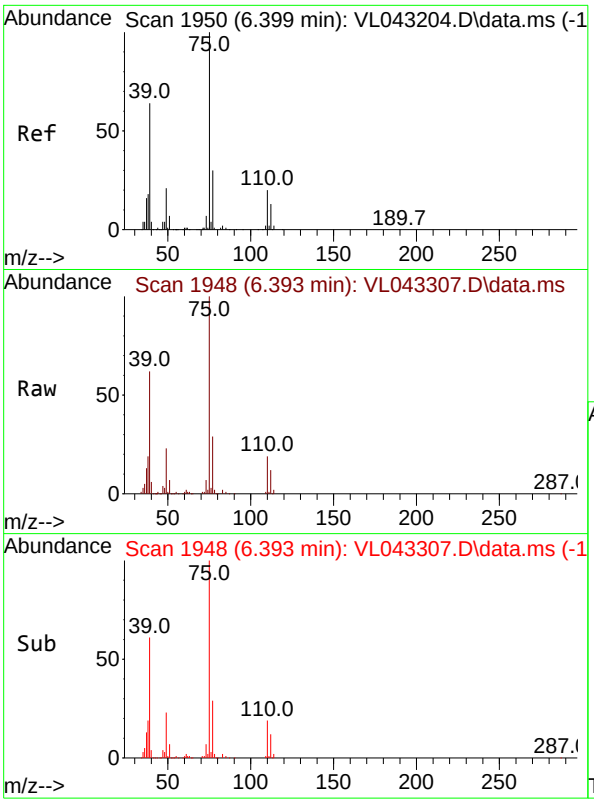


#44
2,2,4-Trimethylpentane
Concen: 10.839 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 57 Resp: 569168

Ion	Ratio	Lower	Upper
57	100		
41	36.5	28.0	42.0
56	32.5	25.6	38.4

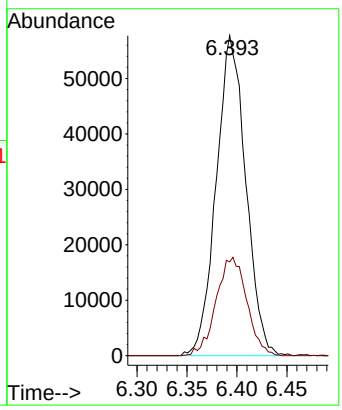




#45
t-1,3-Dichloropropene
Concen: 7.826 ppbv
RT: 6.393 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 75 Resp: 11839

Ion	Ratio	Lower	Upper
75	100		
77	29.3	24.3	36.5



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

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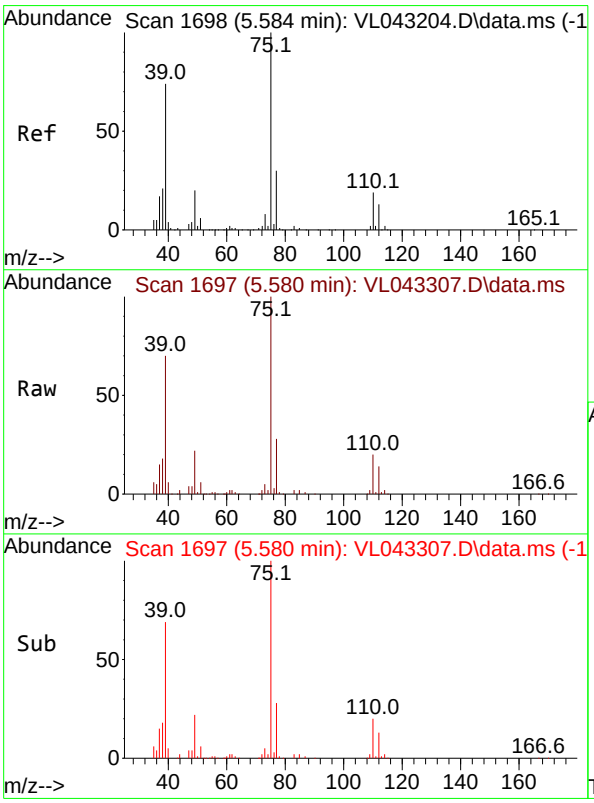
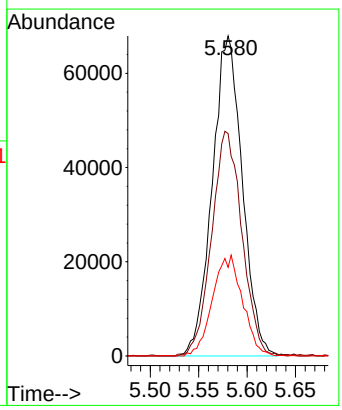
Supervised By :Mahesh Dadoda 12/11/2025

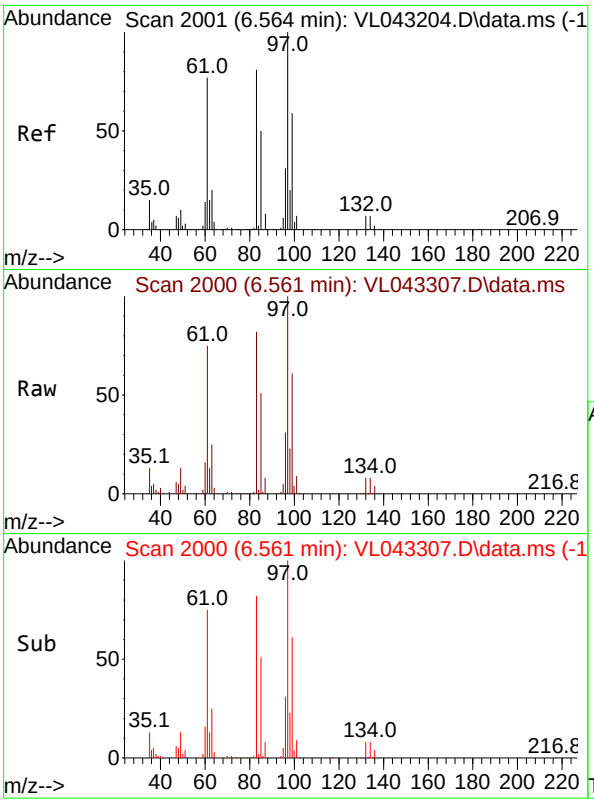


#46
cis-1,3-Dichloropropene
Concen: 8.255 ppbv
RT: 5.580 min Scan# 1697
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 75 Resp: 146637

Ion	Ratio	Lower	Upper
75	100		
39	69.0	59.1	88.7
77	27.6	24.2	36.2

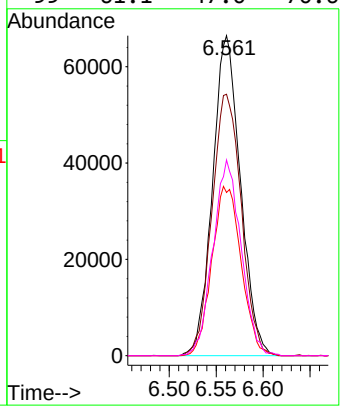




#47
1,1,2-Trichloroethane
Concen: 11.557 ppbv
RT: 6.561 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 97 Resp: 13724

Ion	Ratio	Lower	Upper
97	100		
83	81.7	64.6	97.0
85	51.0	39.4	59.2
99	61.1	47.0	70.6



Instrument :
MSVOA_L
ClientSampleId :
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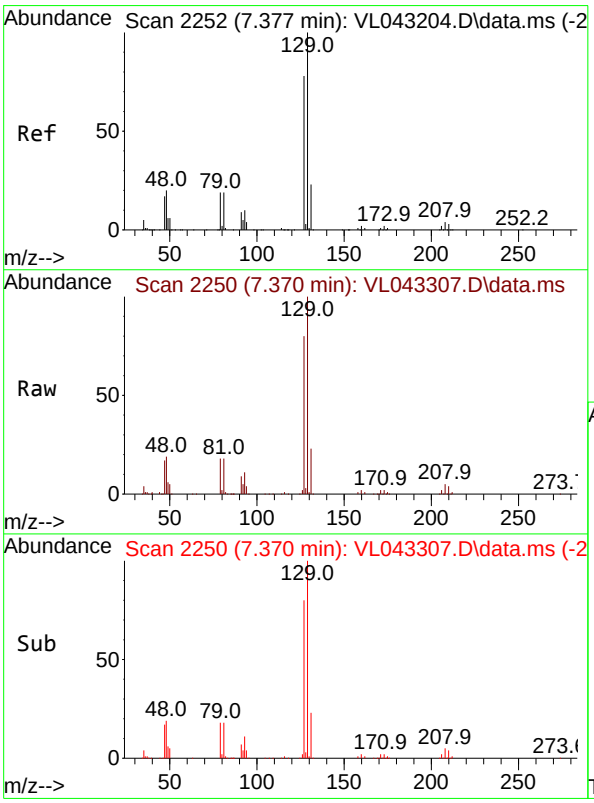
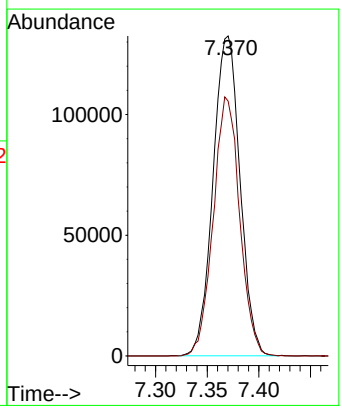
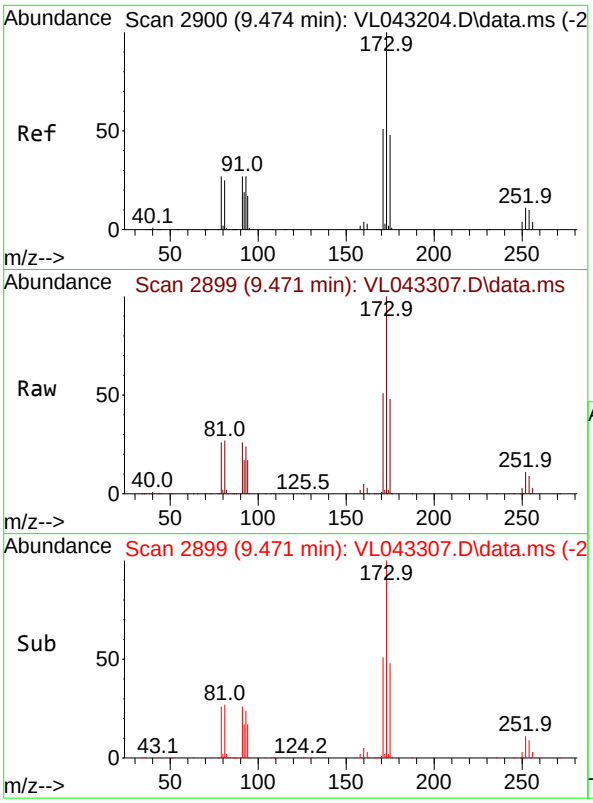


#48
Dibromochloromethane
Concen: 11.793 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:129 Resp: 240784

Ion	Ratio	Lower	Upper
129	100		
127	79.2	39.3	117.9

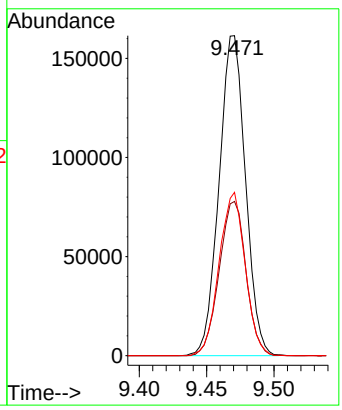




#49
Bromoform
Concen: 12.188 ppbv
RT: 9.471 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:173 Resp: 22041

Ion	Ratio	Lower	Upper
173	100		
175	48.8	38.6	58.0
171	50.4	40.6	61.0



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

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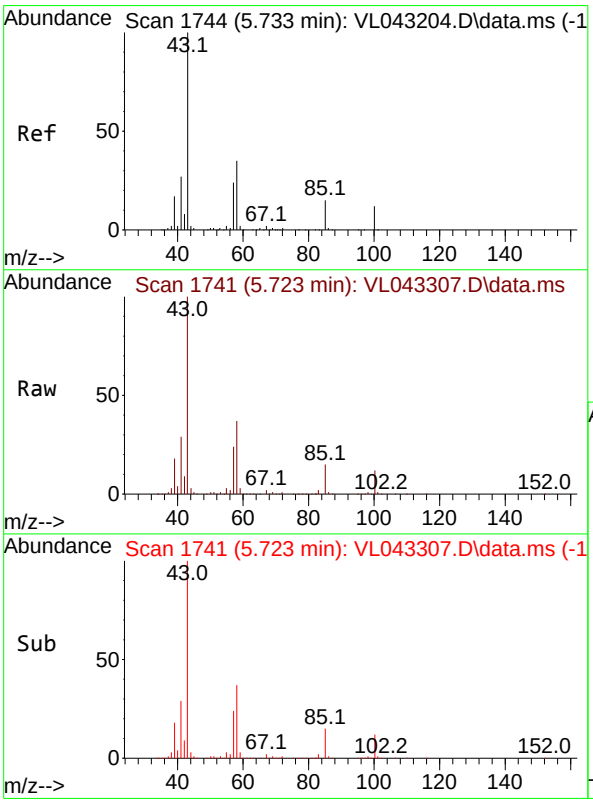
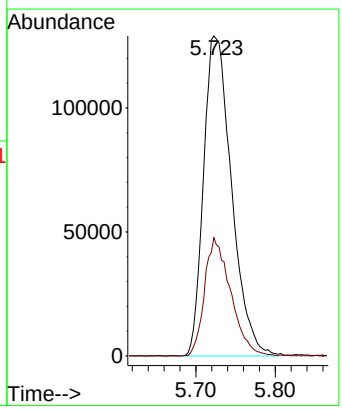
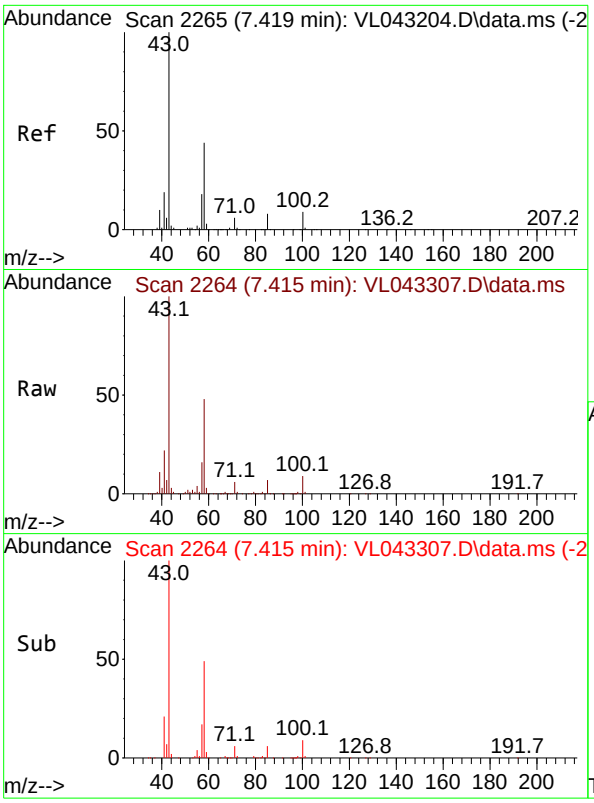


#50
4-Methyl-2-Pentanone
Concen: 9.951 ppbv
RT: 5.723 min Scan# 1741
Delta R.T. -0.010 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 43 Resp: 315888

Ion	Ratio	Lower	Upper
43	100		
58	34.5	28.4	42.6





#51
2-Hexanone
Concen: 9.075 ppbv
RT: 7.415 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 43 Resp: 22370

Ion	Ratio	Lower	Upper
43	100		
58	46.6	38.4	57.6
98	0.9	0.0	0.0

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

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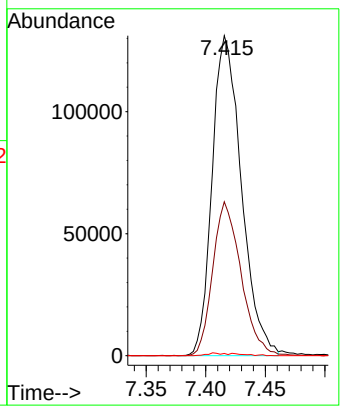
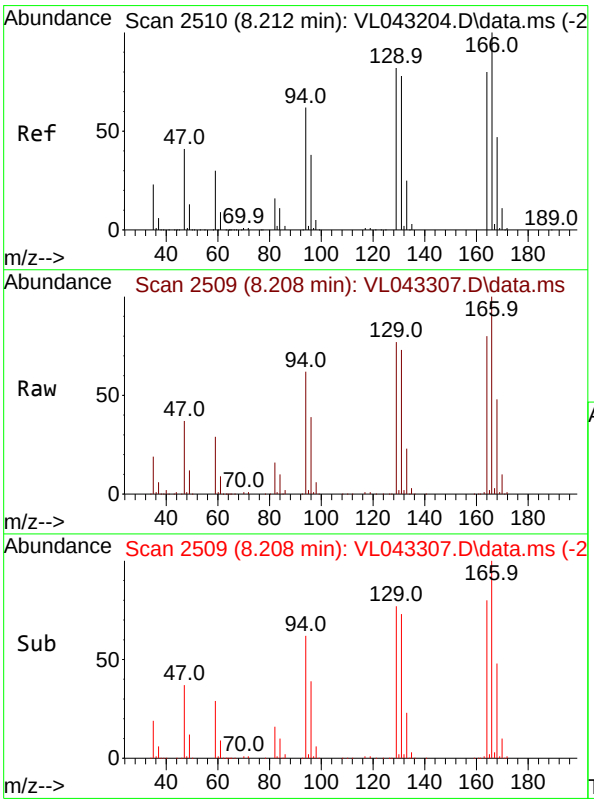
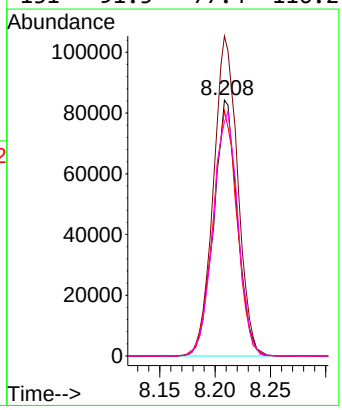


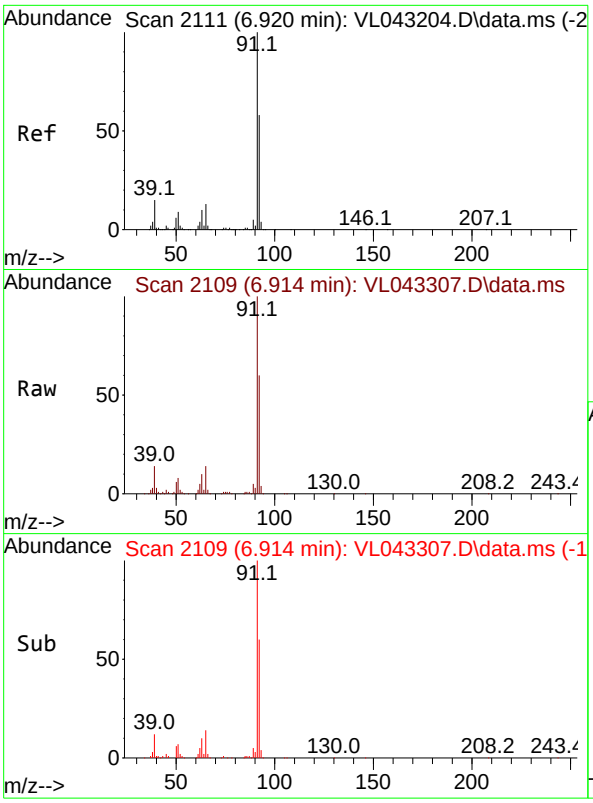


#52
Tetrachloroethene
Concen: 11.051 ppbv
RT: 8.208 min Scan# 2509
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:164 Resp: 125681

Ion	Ratio	Lower	Upper
164	100		
166	125.0	99.4	149.2
129	95.8	81.8	122.8
131	91.5	77.4	116.2

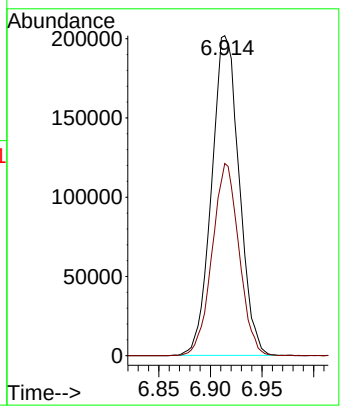




#53
Toluene
Concen: 10.347 ppbv
RT: 6.914 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 91 Resp: 37460

Ion	Ratio	Lower	Upper
91	100		
92	58.7	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
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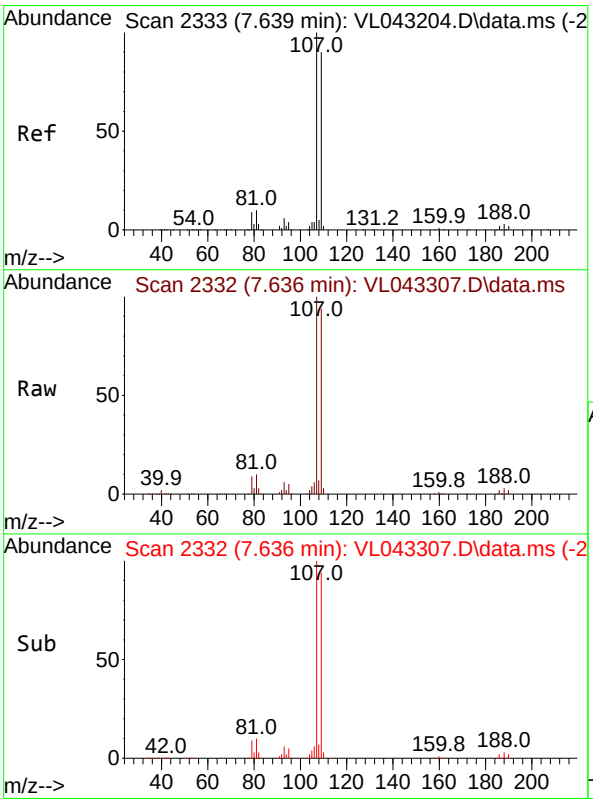
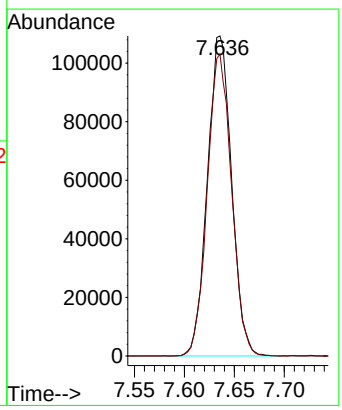
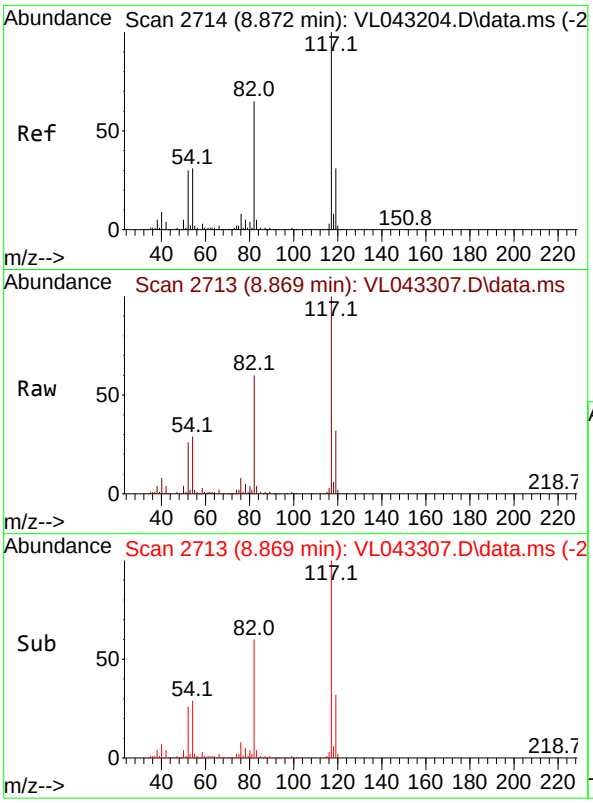


#54
1,2-Dibromoethane
Concen: 10.518 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:107 Resp: 183811

Ion	Ratio	Lower	Upper
107	100		
109	94.4	72.1	108.1

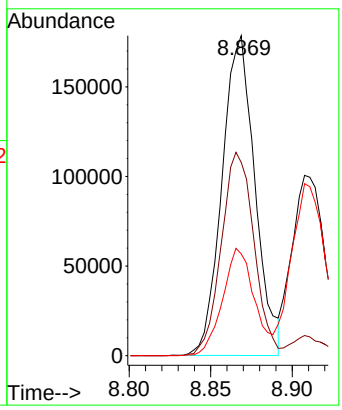




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:117 Resp: 25071

Ion	Ratio	Lower	Upper
117	100		
82	69.4	56.1	84.1
119	32.6	25.0	37.6



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

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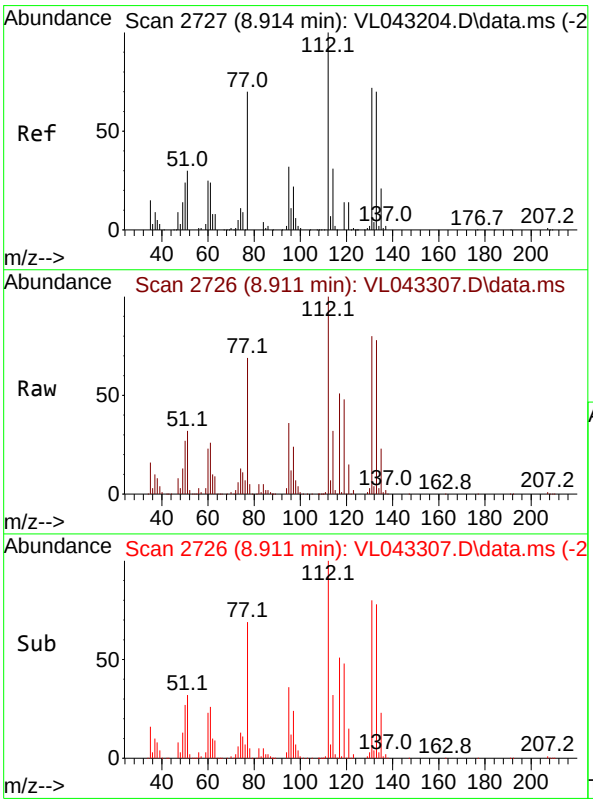
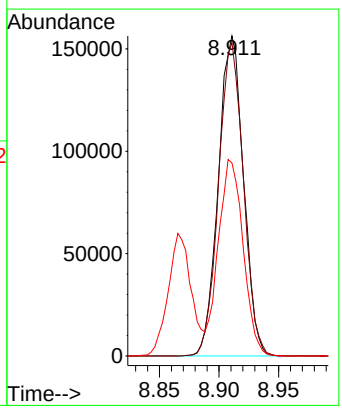
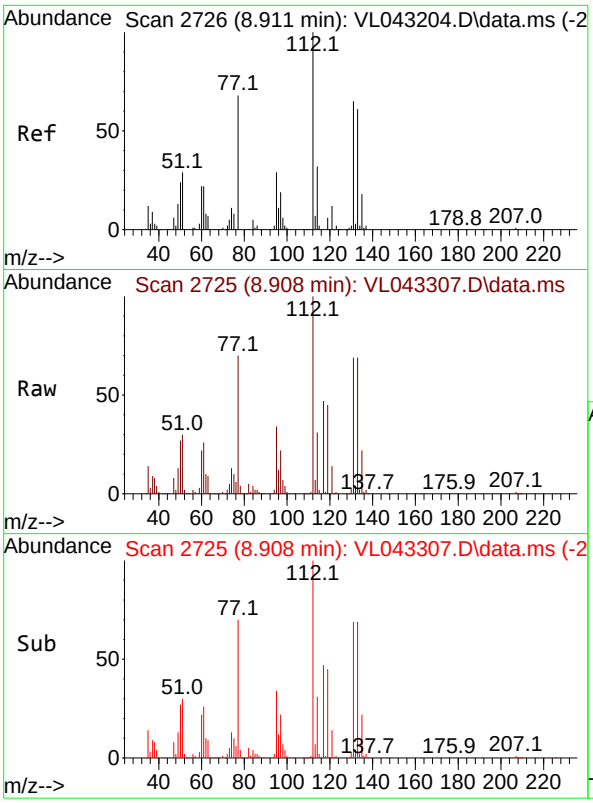


#56
1,1,1,2-Tetrachloroethane
Concen: 12.449 ppbv
RT: 8.911 min Scan# 2726
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:131 Resp: 229368

Ion	Ratio	Lower	Upper
131	100		
133	96.8	77.4	116.2
119	60.5	49.1	73.7

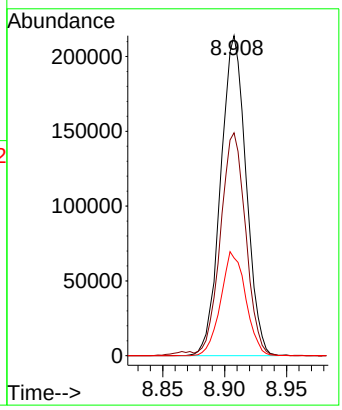




#57
Chlorobenzene
Concen: 11.869 ppbv
RT: 8.908 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:112 Resp: 30550

Ion	Ratio	Lower	Upper
112	100		
77	69.6	55.5	83.3
114	30.5	29.1	35.5



Instrument :
MSVOA_L
ClientSampleId :
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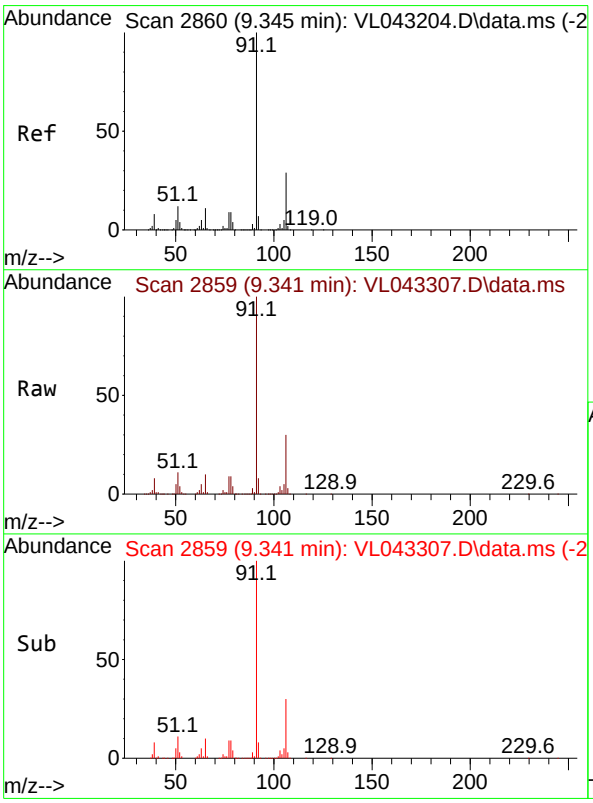
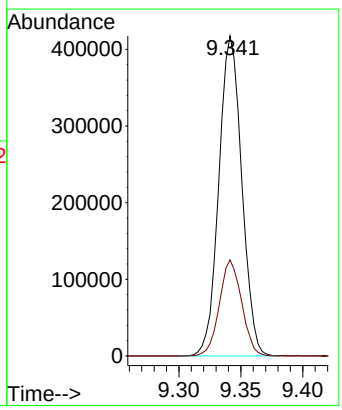
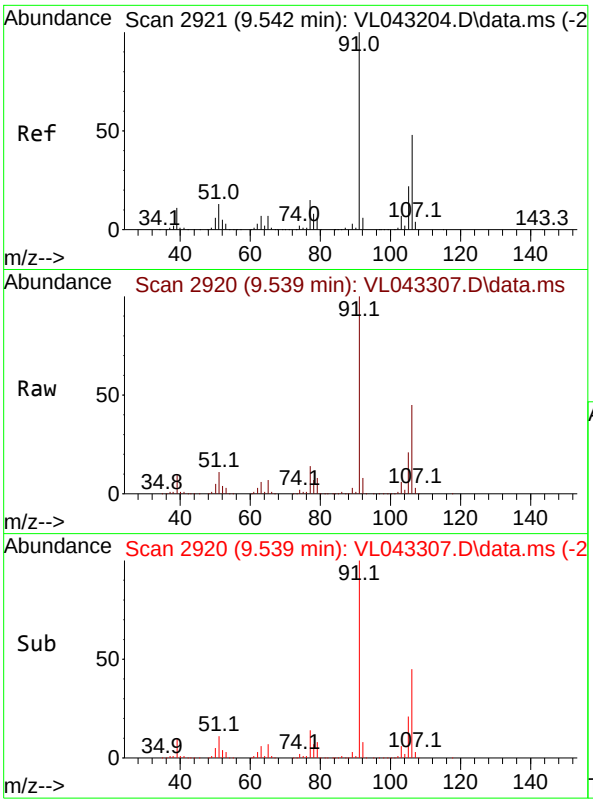


#58
Ethyl Benzene
Concen: 11.161 ppbv
RT: 9.341 min Scan# 2859
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 91 Resp: 538550

Ion	Ratio	Lower	Upper
91	100		
106	30.1	22.8	34.2

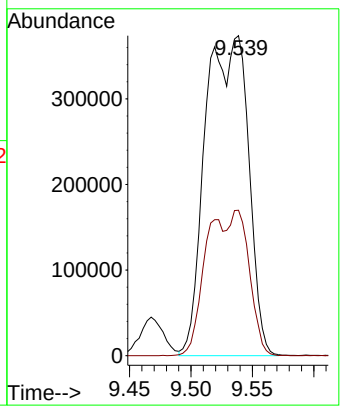




#59
m/p-Xylene
Concen: 23.503 ppbv m
RT: 9.539 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 91 Resp: 90928

Ion	Ratio	Lower	Upper
91	100		
106	45.1	36.1	54.1



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

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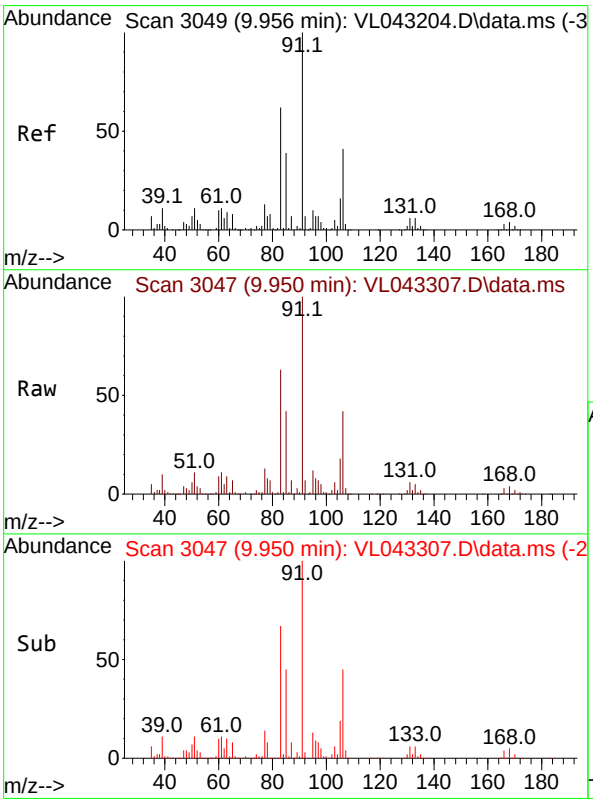
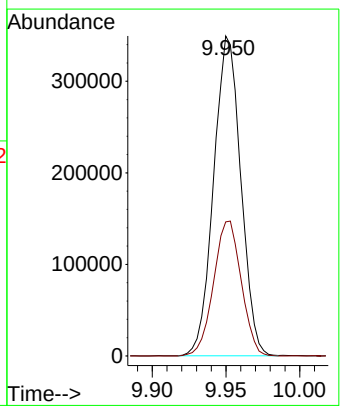
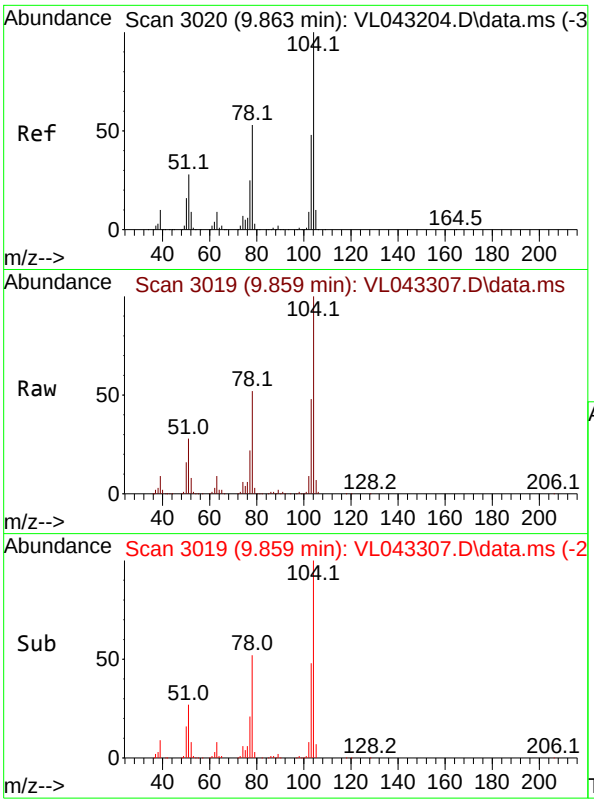


#60
o-Xylene
Concen: 11.560 ppbv
RT: 9.950 min Scan# 3047
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 91 Resp: 446789

Ion	Ratio	Lower	Upper
91	100		
106	43.1	20.9	62.8

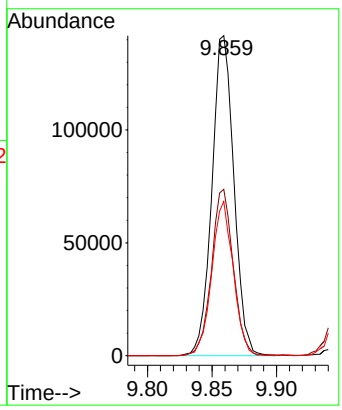




#61
Styrene
Concen: 9.925 ppbv
RT: 9.859 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:104 Resp: 16787

Ion	Ratio	Lower	Upper
104	100		
78	51.5	42.1	63.1
103	47.4	37.2	55.8



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

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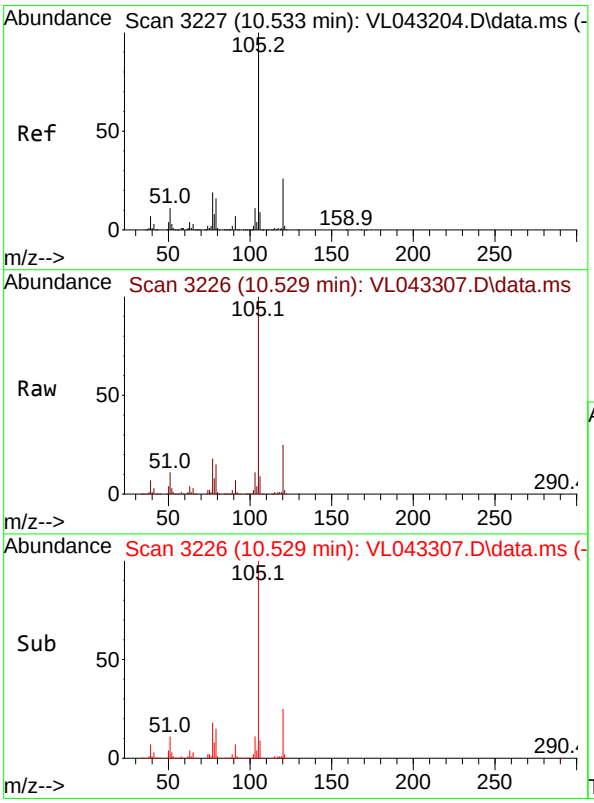
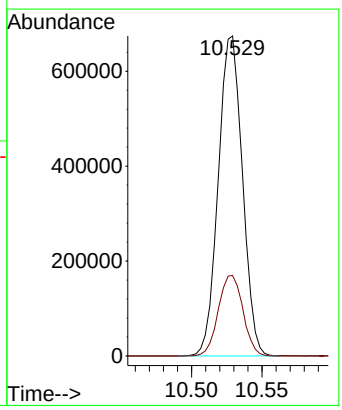
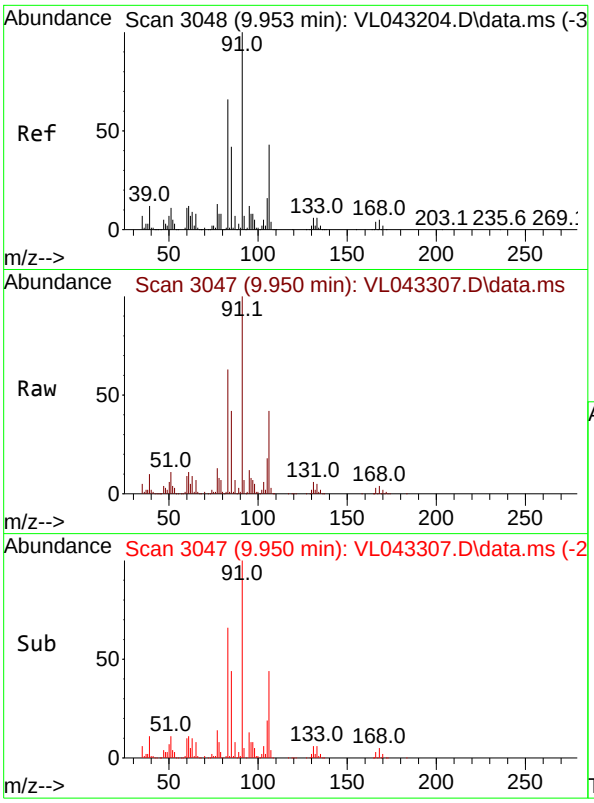


#62
Isopropylbenzene
Concen: 11.652 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:105 Resp: 805674

Ion	Ratio	Lower	Upper
105	100		
120	25.6	19.8	29.8

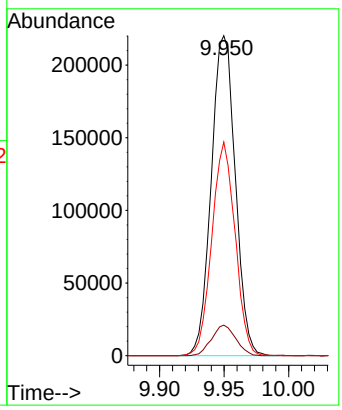




#63
1,1,2,2-Tetrachloroethane
Concen: 11.611 ppbv
RT: 9.950 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 83 Resp: 28554

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	64.5	31.9	95.9



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

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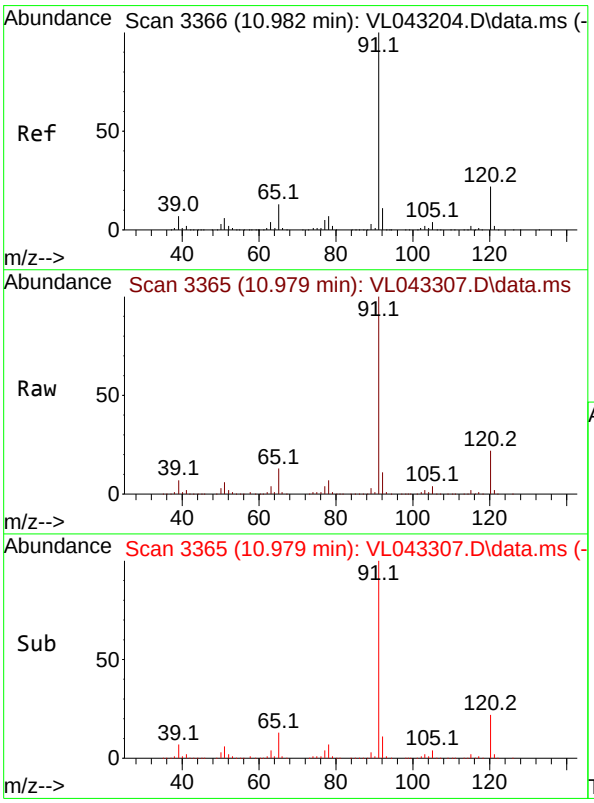
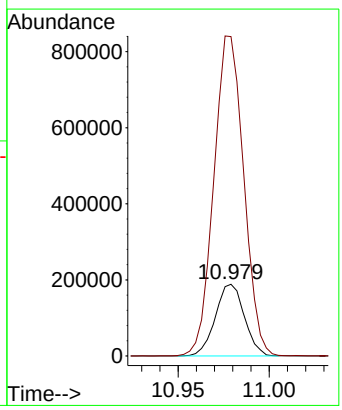
Supervised By :Mahesh Dadoda 12/11/2025

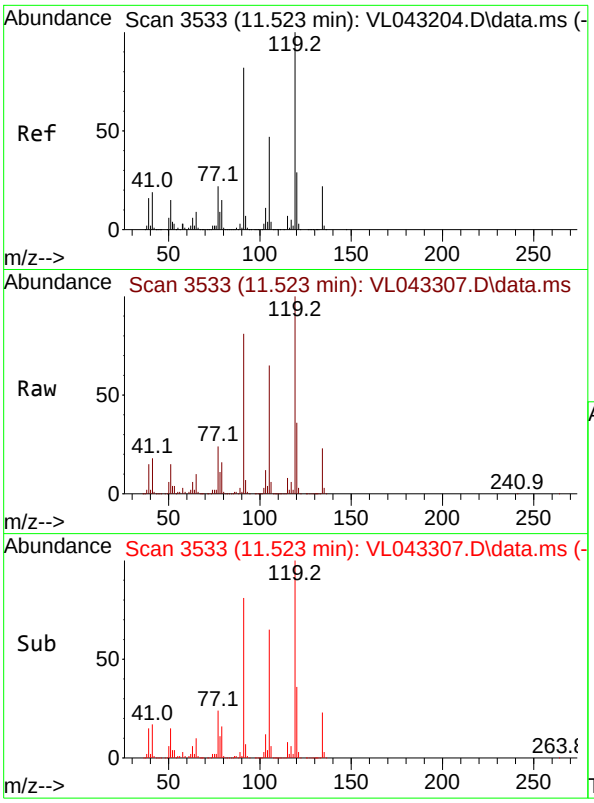


#64
n-propylbenzene
Concen: 11.718 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:120 Resp: 208180

Ion	Ratio	Lower	Upper
120	100		
91	461.2	377.1	565.7

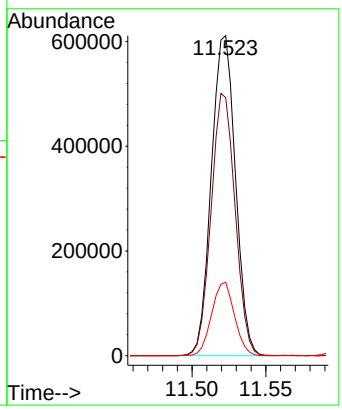




#65
tert-Butylbenzene
Concen: 11.273 ppbv
RT: 11.523 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:119 Resp: 69609

Ion	Ratio	Lower	Upper
119	100		
91	81.5	65.3	97.9
134	21.7	17.0	25.4



Instrument :
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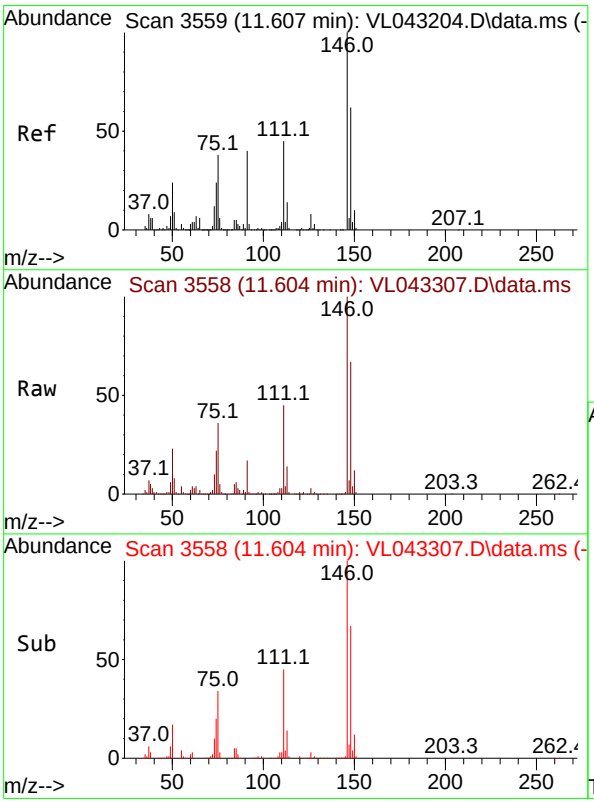
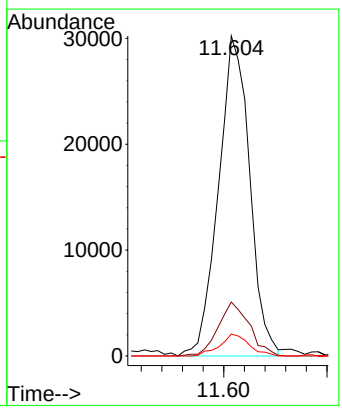
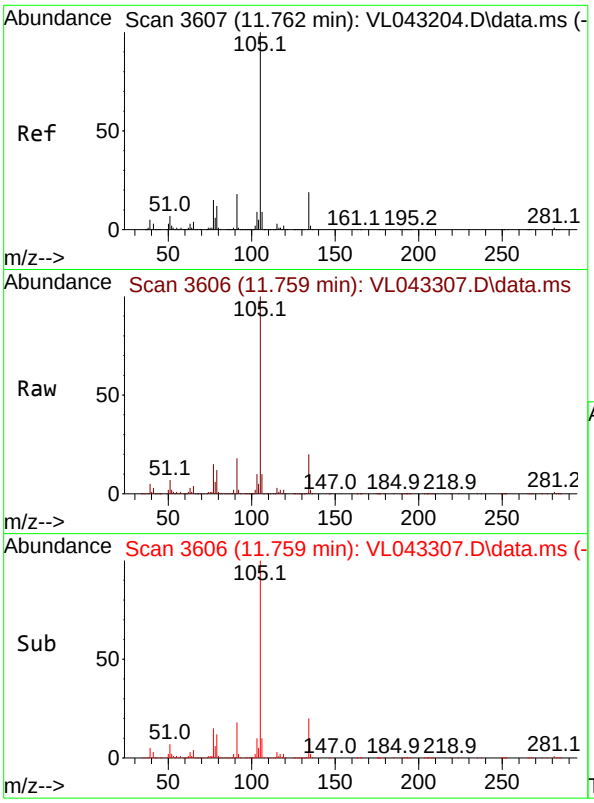


#66
Benzyl Chloride
Concen: 5.049 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 91 Resp: 31638

Ion	Ratio	Lower	Upper
91	100		
126	16.9	14.4	21.6
128	6.4	4.6	6.8

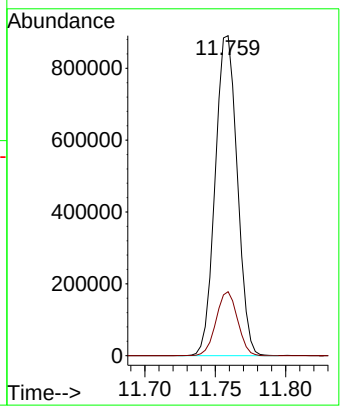




#67
sec-Butylbenzene
Concen: 11.291 ppbv
RT: 11.759 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:105 Resp: 97325

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.0	22.6



Instrument :
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ClientSampleId :
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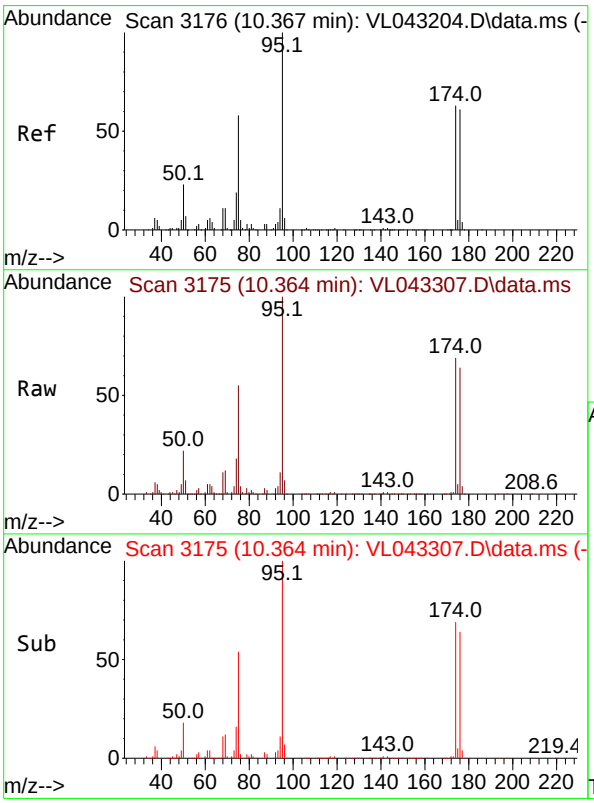
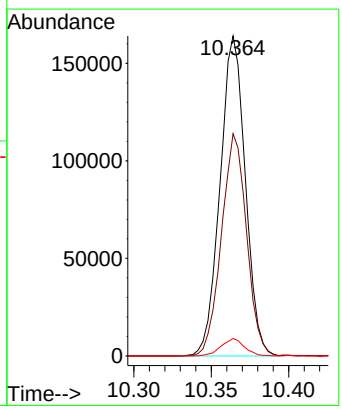
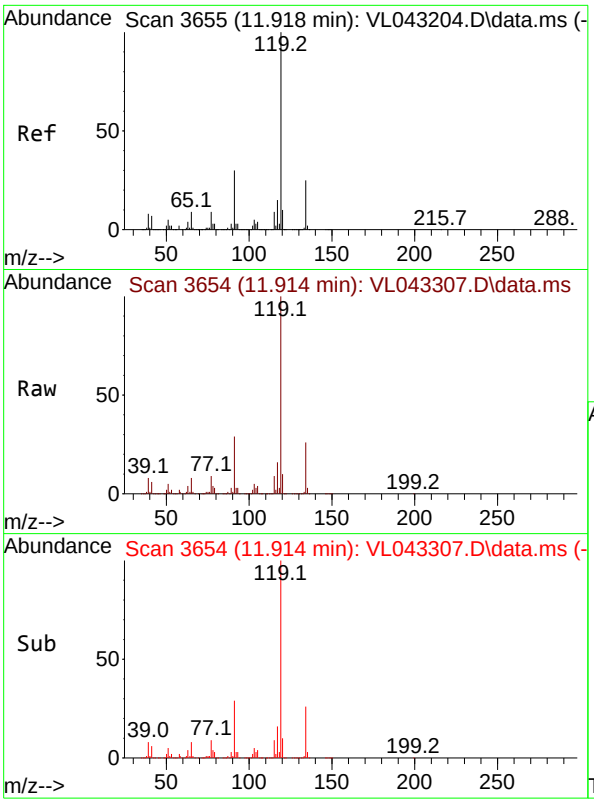


#68
1-Bromo-4-Fluorobenzene
Concen: 10.115 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 95 Resp: 185879

Ion	Ratio	Lower	Upper
95	100		
174	69.2	50.2	75.2
175	5.1	4.1	6.1

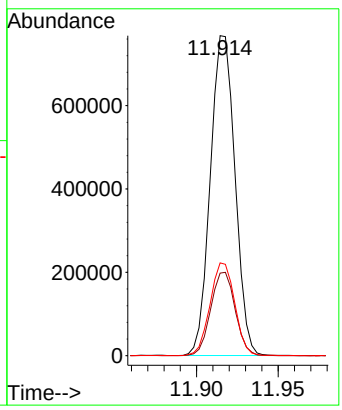




#69
p-Isopropyltoluene
Concen: 11.070 ppbv
RT: 11.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:119 Resp: 80828

Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.2	30.2
91	29.1	23.8	35.8



Instrument :
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ClientSampleId :
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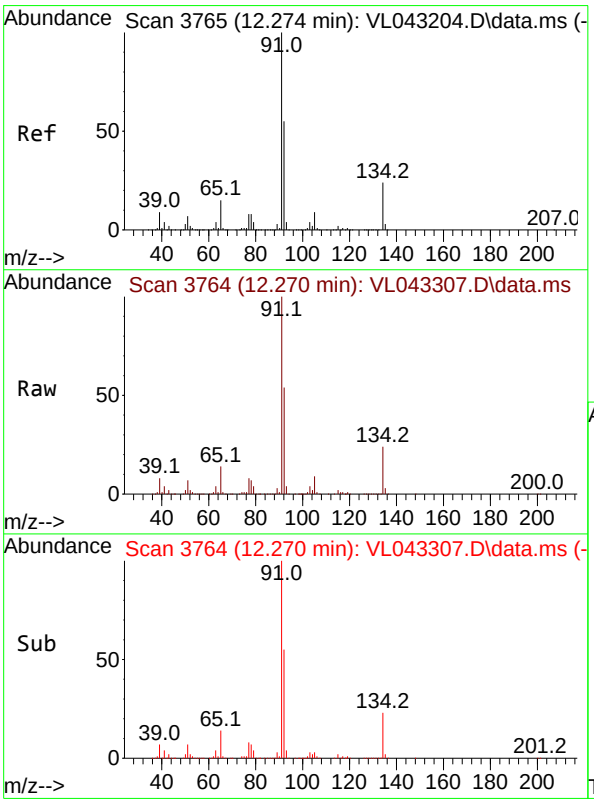
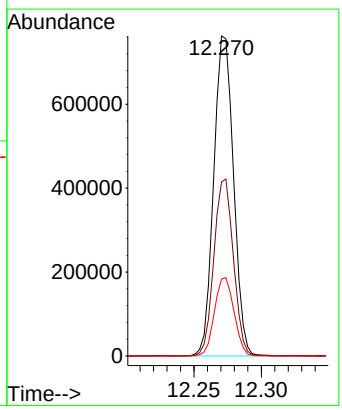
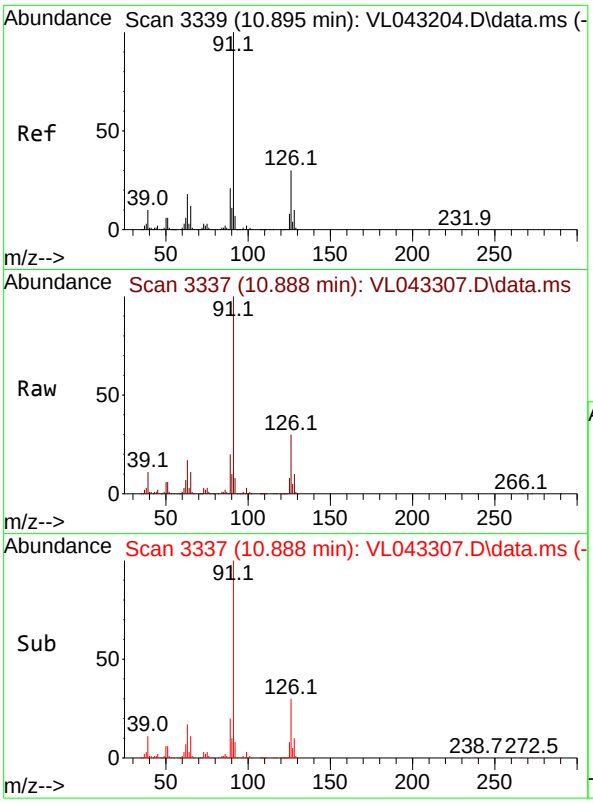


#70
n-Butylbenzene
Concen: 11.019 ppbv
RT: 12.270 min Scan# 3764
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 91 Resp: 780553

Ion	Ratio	Lower	Upper
91	100		
92	54.6	43.5	65.3
134	24.1	19.0	28.6

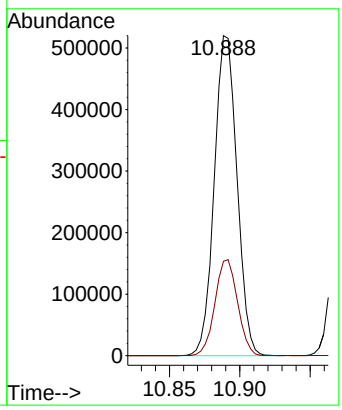




#71
2-Chlorotoluene
Concen: 10.997 ppbv
RT: 10.888 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 91 Resp: 58447

Ion	Ratio	Lower	Upper
91	100		
126	30.0	11.7	46.7



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

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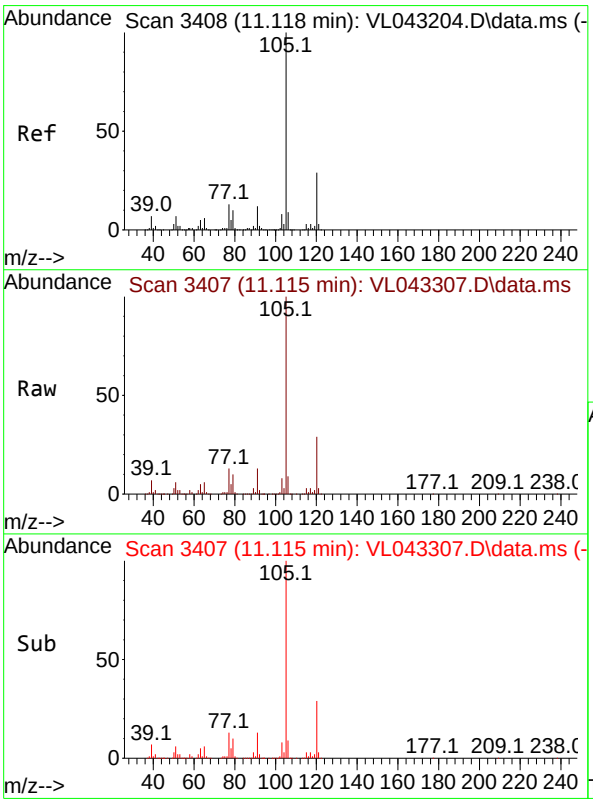
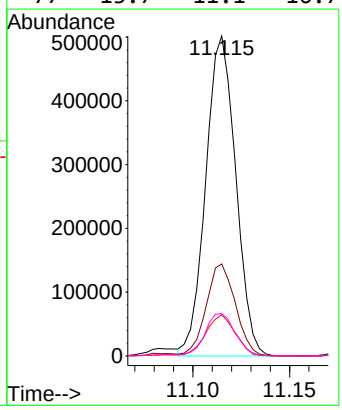
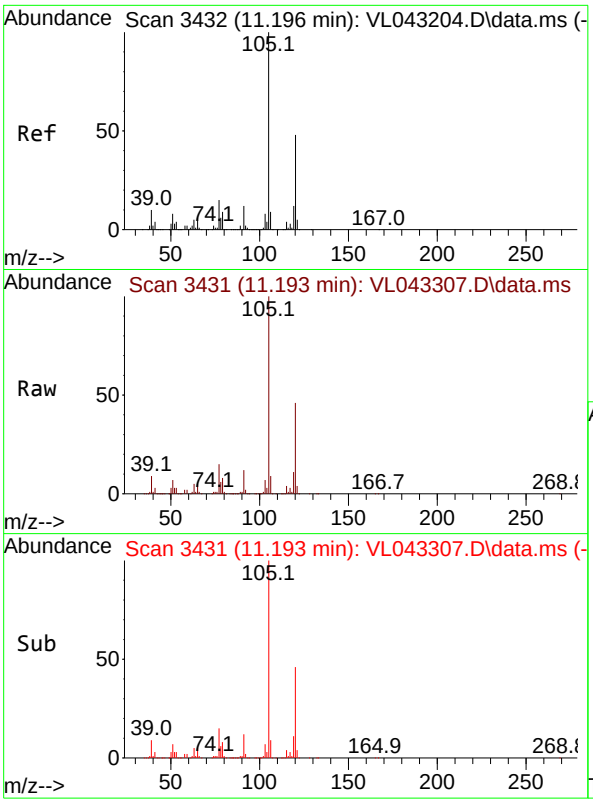


#72
4-Ethyltoluene
Concen: 11.487 ppbv
RT: 11.115 min Scan# 3407
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:105 Resp: 540638

Ion	Ratio	Lower	Upper
105	100		
120	28.8	23.8	35.8
91	12.9	10.3	15.5
77	13.7	11.1	16.7

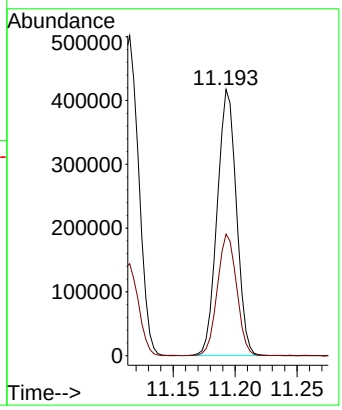




#73
1,3,5-Trimethylbenzene
Concen: 11.424 ppbv
RT: 11.193 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:105 Resp: 45121

Ion	Ratio	Lower	Upper
105	100		
120	45.6	38.6	57.8



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

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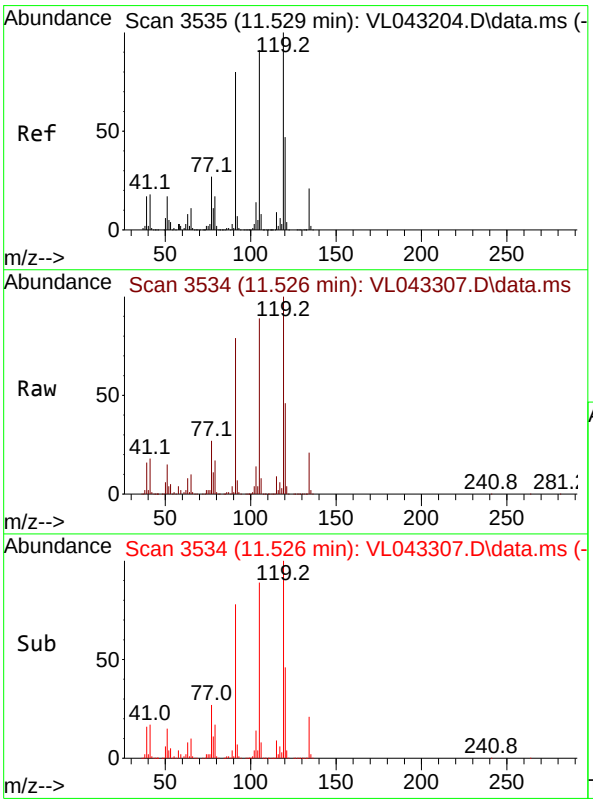
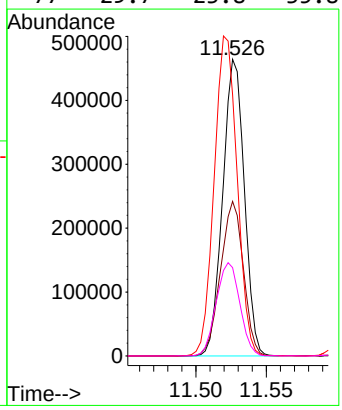
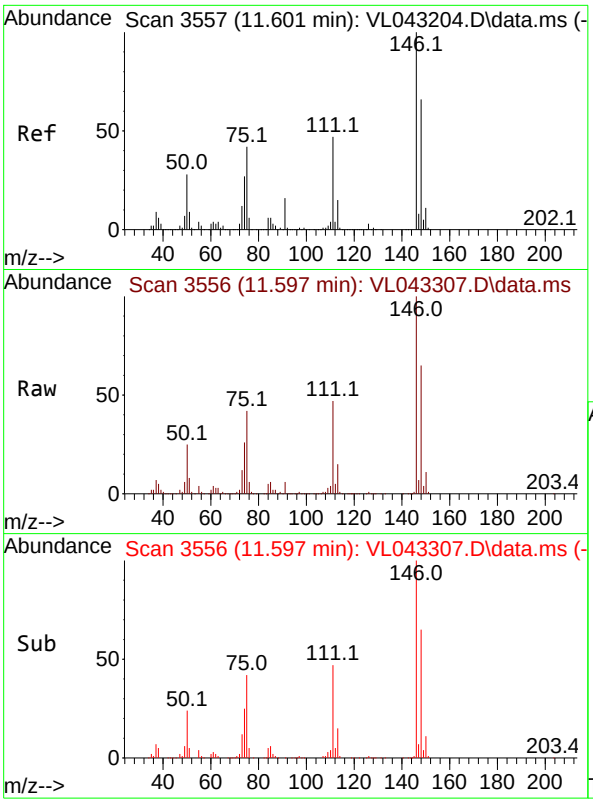


#74
1,2,4-Trimethylbenzene
Concen: 11.530 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:105 Resp: 496984

Ion	Ratio	Lower	Upper
105	100		
120	52.1	41.7	62.5
91	88.0	70.0	105.0
77	29.7	23.8	35.8

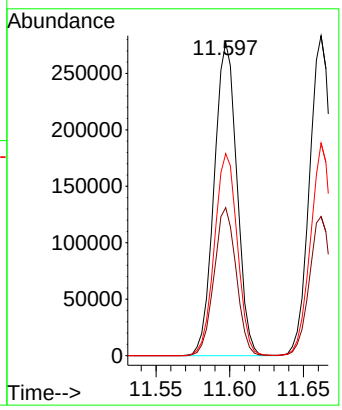




#75
1,3-Dichlorobenzene
Concen: 11.834 ppbv
RT: 11.597 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:146 Resp: 29768

Ion	Ratio	Lower	Upper
146	100		
111	46.0	23.4	70.3
148	64.9	31.6	95.0



Instrument :
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ClientSampleId :
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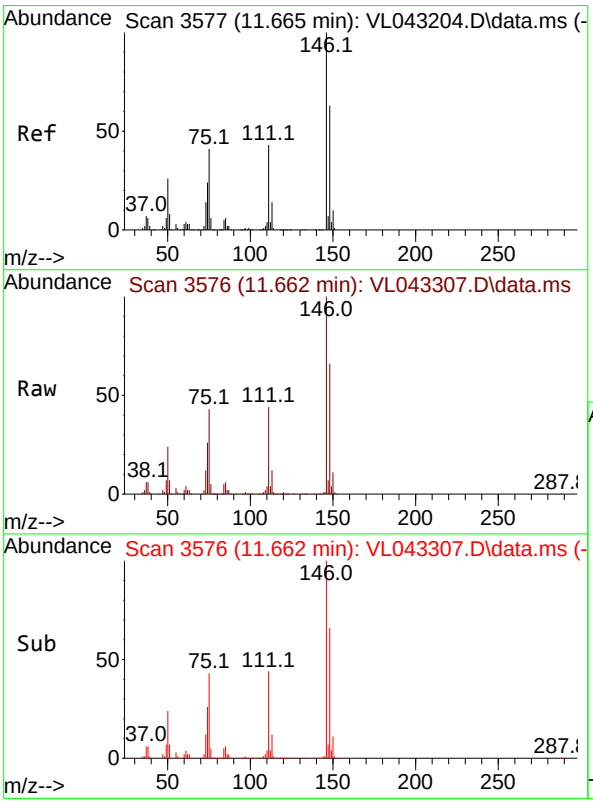
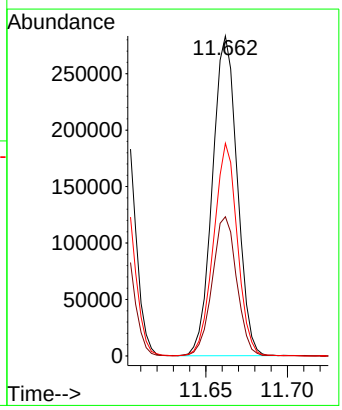
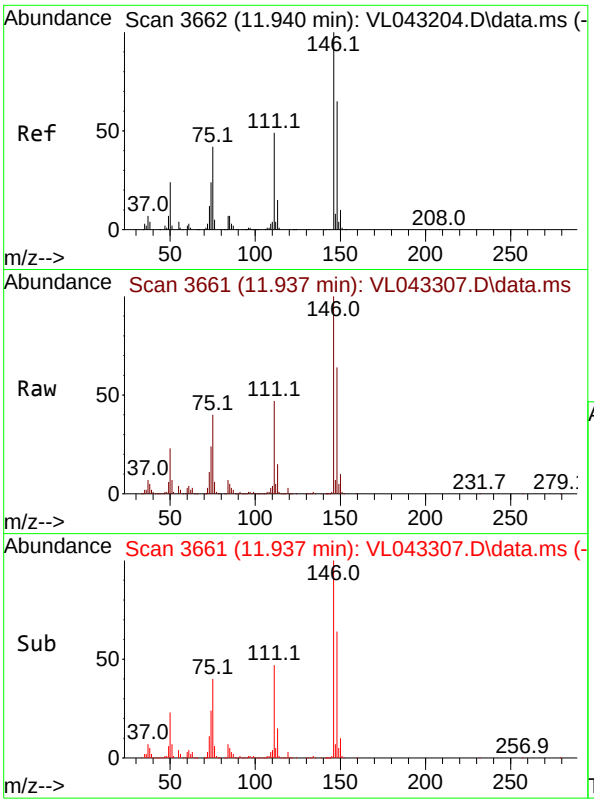


#76
1,4-Dichlorobenzene
Concen: 11.859 ppbv
RT: 11.662 min Scan# 3576
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:146 Resp: 298352

Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.8	68.3
148	64.2	31.8	95.4

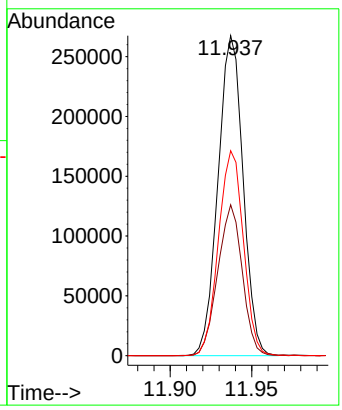




#77
1,2-Dichlorobenzene
Concen: 11.819 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:146 Resp: 28583

Ion	Ratio	Lower	Upper
146	100		
111	46.1	24.3	73.0
148	63.9	31.6	94.7



Instrument :
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ClientSampleId :
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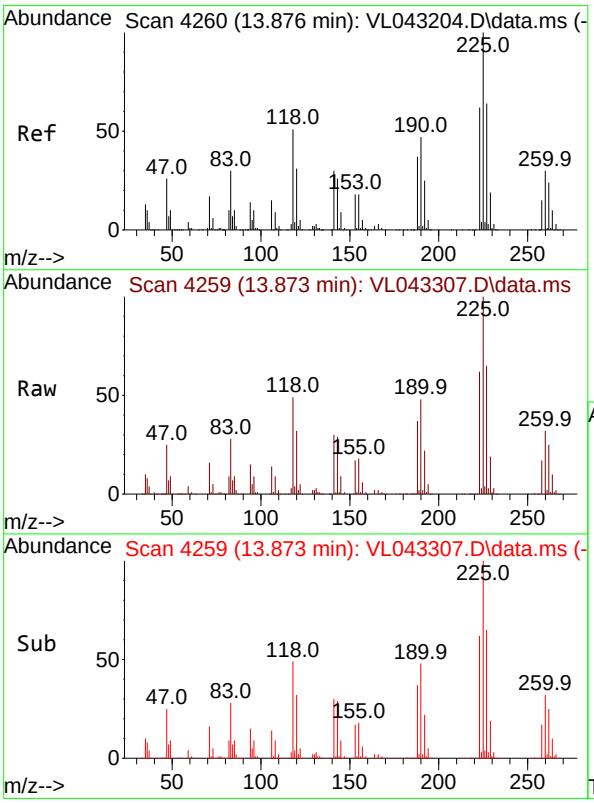
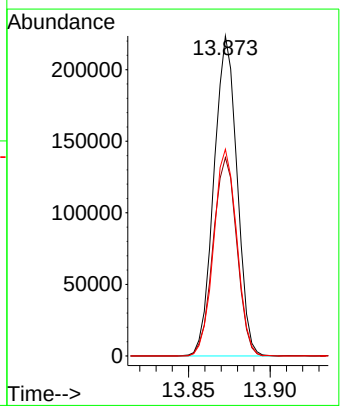
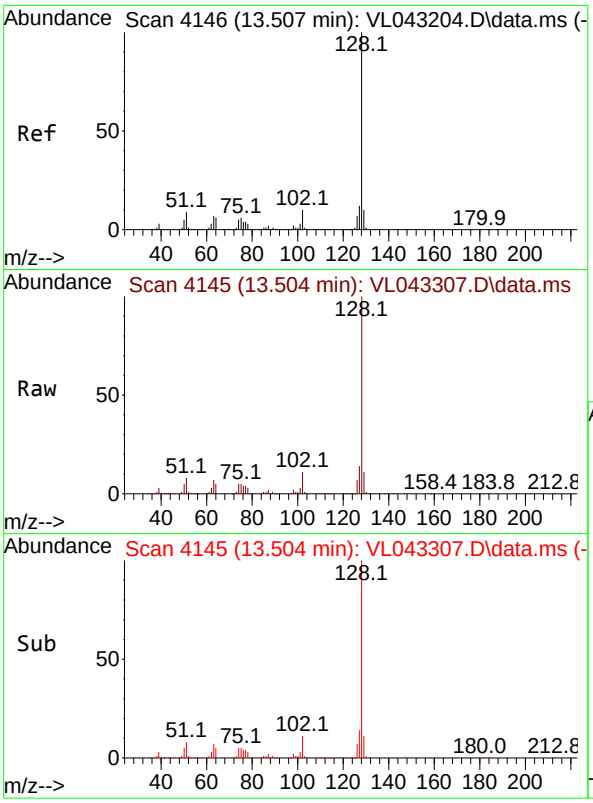


#78
Hexachloro-1,3-Butadiene
Concen: 10.903 ppbv
RT: 13.873 min Scan# 4259
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:225 Resp: 220056

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.2	75.4
227	64.7	51.1	76.7

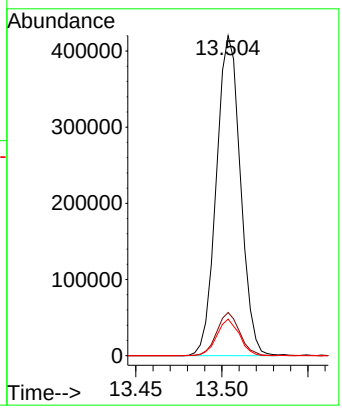




#79
Naphthalene
Concen: 10.692 ppbv
RT: 13.504 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:128 Resp: 40931

Ion	Ratio	Lower	Upper
128	100		
127	13.5	9.9	14.9
129	11.4	8.4	12.6



Instrument :
MSVOA_L
ClientSampleId :
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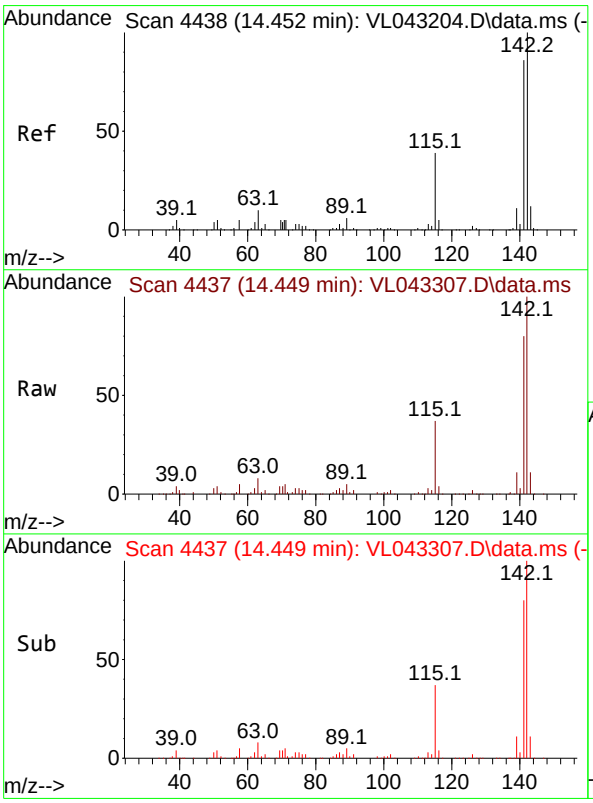
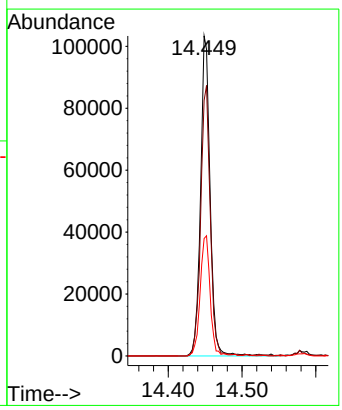
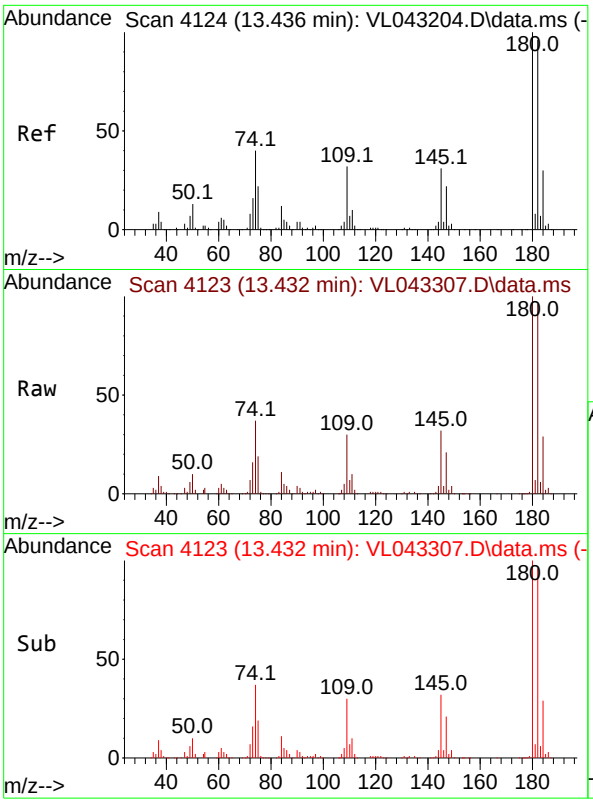


#80
Naphthalene,2-methyl-
Concen: 9.252 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:142 Resp: 92975

Ion	Ratio	Lower	Upper
142	100		
141	84.6	67.1	100.7
115	39.8	31.9	47.9

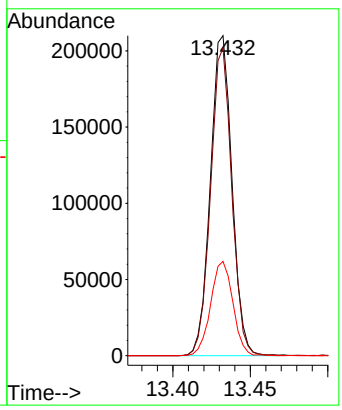




#81
1,2,4-Trichlorobenzene
Concen: 11.915 ppbv
RT: 13.432 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:180 Resp: 20400

Ion	Ratio	Lower	Upper
180	100		
182	94.3	77.4	116.2
184	30.3	24.2	36.4



Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

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:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	AA-1DUP	SDG No.:	Q3799
Lab Sample ID:	Q3799-01DUP	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	0.41	2.03	J	1	0.54	2.47	12/08/25 13:16	VL120825
74-87-3	Chloromethane	2.10	4.34		1	0.21	1.03	12/08/25 13:16	VL120825
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	12/08/25 13:16	VL120825
74-83-9	Bromomethane	0.080	0.31	U	1	0.31	1.94	12/08/25 13:16	VL120825
75-00-3	Chloroethane	0.15	0.40	U	1	0.40	1.32	12/08/25 13:16	VL120825
109-99-9	Tetrahydrofuran	0.080	0.24	U	1	0.24	1.47	12/08/25 13:16	VL120825
75-69-4	Trichlorofluoromethane	0.20	1.12	J	1	0.96	2.81	12/08/25 13:16	VL120825
76-13-1	1,1,2-Trichlorotrifluoroethane	0.14	1.07	U	1	1.07	3.83	12/08/25 13:16	VL120825
76-14-2	Dichlorotetrafluoroethane	0.15	1.05	U	1	1.05	3.49	12/08/25 13:16	VL120825
75-65-0	tert-Butyl alcohol	0.16	0.49	U	1	0.49	1.52	12/08/25 13:16	VL120825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	12/08/25 13:16	VL120825
75-35-4	1,1-Dichloroethene	0.15	0.59	U	1	0.59	1.98	12/08/25 13:16	VL120825
67-64-1	Acetone	4.80	11.4		1	0.43	1.19	12/08/25 13:16	VL120825
75-15-0	Carbon Disulfide	0.080	0.25	U	1	0.25	1.56	12/08/25 13:16	VL120825
1634-04-4	Methyl tert-Butyl Ether	0.23	0.83	U	1	0.83	1.80	12/08/25 13:16	VL120825
75-09-2	Methylene Chloride	3.30	11.5		1	0.80	1.74	12/08/25 13:16	VL120825
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	1	0.48	1.98	12/08/25 13:16	VL120825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	12/08/25 13:16	VL120825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	12/08/25 13:16	VL120825
78-93-3	2-Butanone	0.51	1.50		1	0.18	1.47	12/08/25 13:16	VL120825
56-23-5	Carbon Tetrachloride	0.090	0.57		1	0.19	0.19	12/08/25 13:16	VL120825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	12/08/25 13:16	VL120825
67-66-3	Chloroform	0.15	0.73	J	1	0.49	2.44	12/08/25 13:16	VL120825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	12/08/25 13:16	VL120825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	12/08/25 13:16	VL120825
71-43-2	Benzene	0.16	0.51	J	1	0.26	1.60	12/08/25 13:16	VL120825
107-06-2	1,2-Dichloroethane	0.090	0.36	U	1	0.36	2.02	12/08/25 13:16	VL120825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	12/08/25 13:16	VL120825
78-87-5	1,2-Dichloropropane	0.13	0.60	U	1	0.60	2.31	12/08/25 13:16	VL120825
75-27-4	Bromodichloromethane	0.060	0.40	U	1	0.40	3.35	12/08/25 13:16	VL120825
108-10-1	4-Methyl-2-Pentanone	0.10	0.41	U	1	0.41	2.05	12/08/25 13:16	VL120825
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	12/08/25 13:16	VL120825
10061-02-6	t-1,3-Dichloropropene	0.15	0.68	U	1	0.68	2.27	12/08/25 13:16	VL120825
10061-01-5	cis-1,3-Dichloropropene	0.11	0.50	U	1	0.50	2.27	12/08/25 13:16	VL120825
79-00-5	1,1,2-Trichloroethane	0.080	0.44	U	1	0.44	2.73	12/08/25 13:16	VL120825
124-48-1	Dibromochloromethane	0.090	0.77	U	1	0.77	4.26	12/08/25 13:16	VL120825
106-93-4	1,2-Dibromoethane	0.090	0.69	U	1	0.69	0.77	12/08/25 13:16	VL120825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	12/08/25 13:16	VL120825
108-90-7	Chlorobenzene	0.080	0.37	U	1	0.37	2.30	12/08/25 13:16	VL120825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	12/08/25 13:16	VL120825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	12/08/25 13:16	VL120825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	12/08/25 13:16	VL120825
100-42-5	Styrene	0.16	0.68	U	1	0.68	2.13	12/08/25 13:16	VL120825
75-25-2	Bromoform	0.050	0.52	U	1	0.52	5.17	12/08/25 13:16	VL120825
79-34-5	1,1,2,2-Tetrachloroethane	0.020	0.14	U	1	0.14	0.21	12/08/25 13:16	VL120825
95-49-8	2-Chlorotoluene	0.17	0.88	U	1	0.88	2.59	12/08/25 13:16	VL120825

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Report of Analysis

Client:	RTP Environmental	Date Collected:	
Project:	CHADWICK SQUARE	Date Received:	
Client Sample ID:	AA-1DUP	SDG No.:	Q3799
Lab Sample ID:	Q3799-01DUP	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	12/08/25 13:16	VL120825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	12/08/25 13:16	VL120825
541-73-1	1,3-Dichlorobenzene	0.050	0.30	U	1	0.30	3.01	12/08/25 13:16	VL120825
106-46-7	1,4-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 13:16	VL120825
95-50-1	1,2-Dichlorobenzene	0.13	0.78	U	1	0.78	3.01	12/08/25 13:16	VL120825
120-82-1	1,2,4-Trichlorobenzene	0.21	1.56	U	1	1.56	3.71	12/08/25 13:16	VL120825
87-68-3	Hexachloro-1,3-Butadiene	0.13	1.39	U	1	1.39	5.33	12/08/25 13:16	VL120825
106-99-0	1,3-Butadiene	0.050	0.11	U	1	0.11	1.11	12/08/25 13:16	VL120825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	12/08/25 13:16	VL120825
622-96-8	4-Ethyltoluene	0.21	1.03	U	1	1.03	2.46	12/08/25 13:16	VL120825
110-54-3	Hexane	1.40	4.93		1	0.56	1.76	12/08/25 13:16	VL120825
107-05-1	Allyl Chloride	0.11	0.34	U	1	0.34	1.57	12/08/25 13:16	VL120825
123-91-1	1,4-Dioxane	0.22	0.79	U	1	0.79	1.80	12/08/25 13:16	VL120825
80-62-6	Methyl Methacrylate	0.14	0.57	U	1	0.57	2.05	12/08/25 13:16	VL120825
SURROGATES									
460-00-4	1-Bromo-4-Fluorobenzene	9.80				70 (65) - 130 (135)	98% SPK: 10		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	155000							
540-36-3	1,4-Difluorobenzene	398000							
3114-55-4	Chlorobenzene-d5	319000							

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\VL120825\
Data File : VL043311.D
Acq On : 08 Dec 2025 13:16
Operator : SY/MD
Sample : Q3799-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:11:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	155357	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	397814	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	318793	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	229577	9.825	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	8883	0.405	ppbv		96
3) Chlorodifluoromethane	1.473	51	5370m	0.249	ppbv		
4) Chloromethane	1.531	50	17124	2.090	ppbv	#	87
9) Propene	1.486	41	6430	0.703	ppbv	#	1
11) Trichlorofluoromethane	1.875	101	4183	0.197	ppbv		90
13) Ethanol	1.719	45	12812	3.982	ppbv		99
15) Acetone	1.832	43	103724	4.806	ppbv		95
19) Isopropyl Alcohol	1.884	45	9039	0.741	ppbv	#	1
20) Methylene Chloride	2.059	84	24089	3.258	ppbv		95
26) Hexane	2.823	57	29316	1.436	ppbv	#	41
29) Chloroform	2.846	83	4392	0.151	ppbv		92
34) 2-Butanone	2.557	43	14218	0.506	ppbv		98
35) Carbon Tetrachloride	3.758	117	2821m	0.093	ppbv		
36) Benzene	3.648	78	6108	0.160	ppbv		94
53) Toluene	6.924	91	5234m	0.116	ppbv		

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043311.D
Acq On : 08 Dec 2025 13:16
Operator : SY/MD
Sample : Q3799-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 09 00:11:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/09/2025
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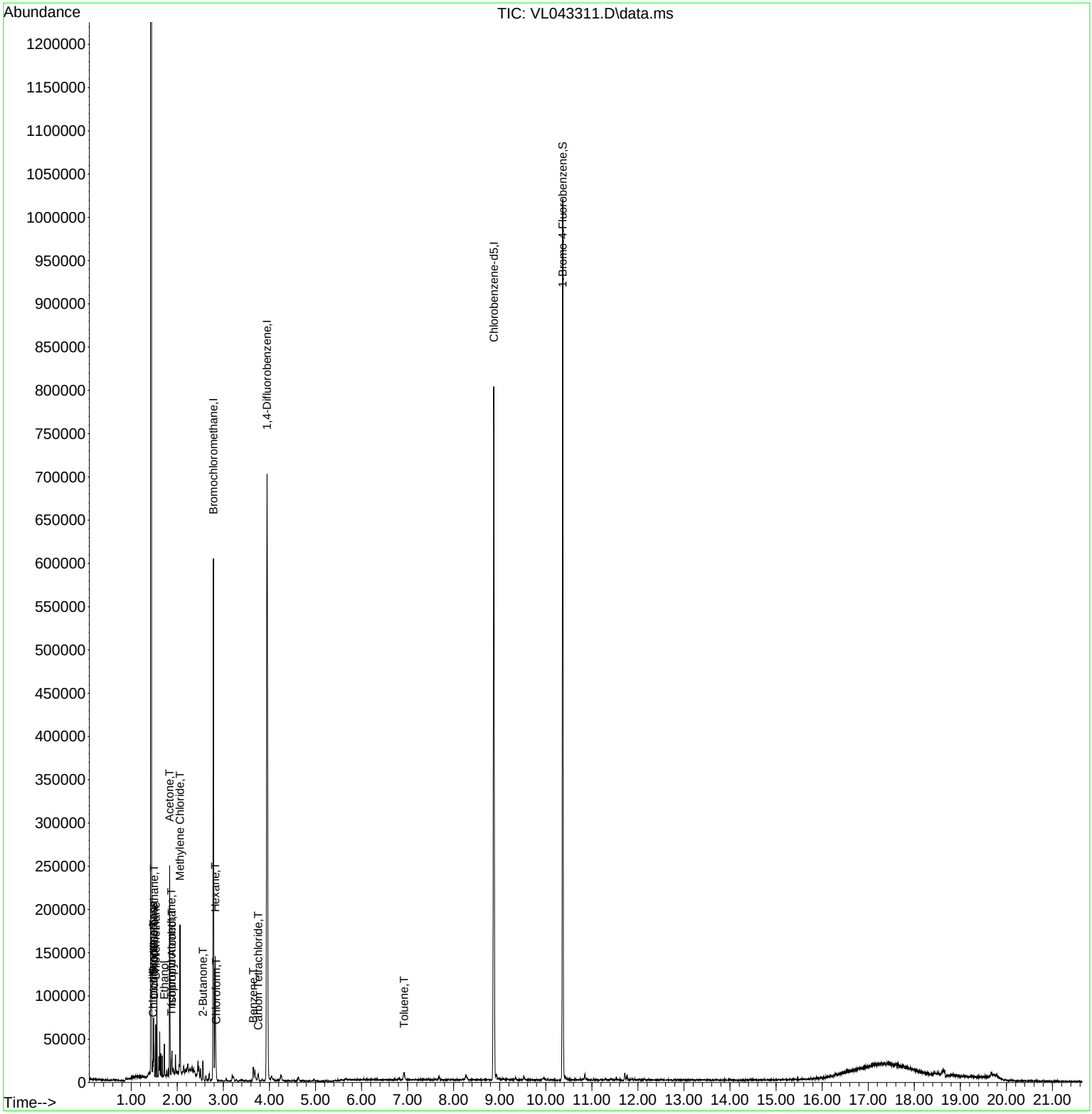

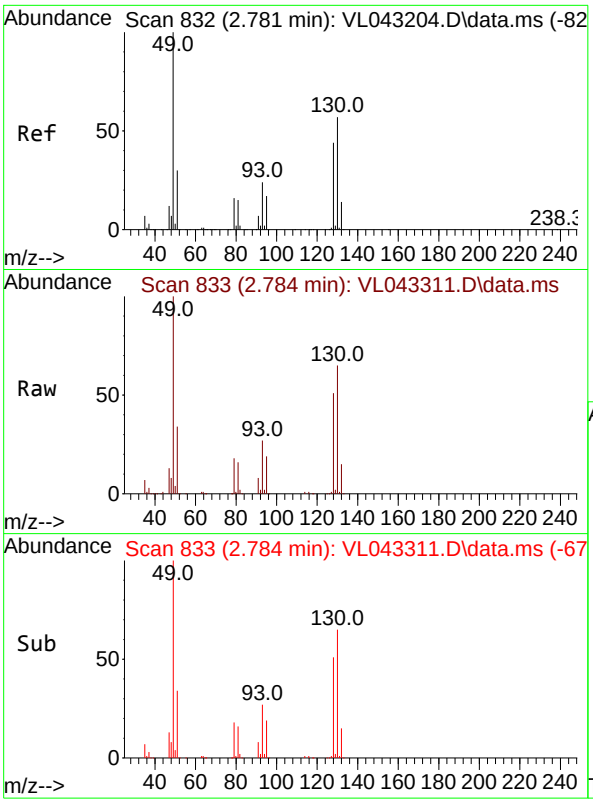

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 49 Resp: 15535

Ion	Ratio	Lower	Upper
49	100		
128	49.7	23.0	69.0
130	61.6	29.9	89.7

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Manual Integrations
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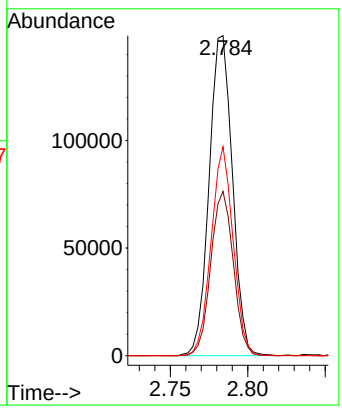
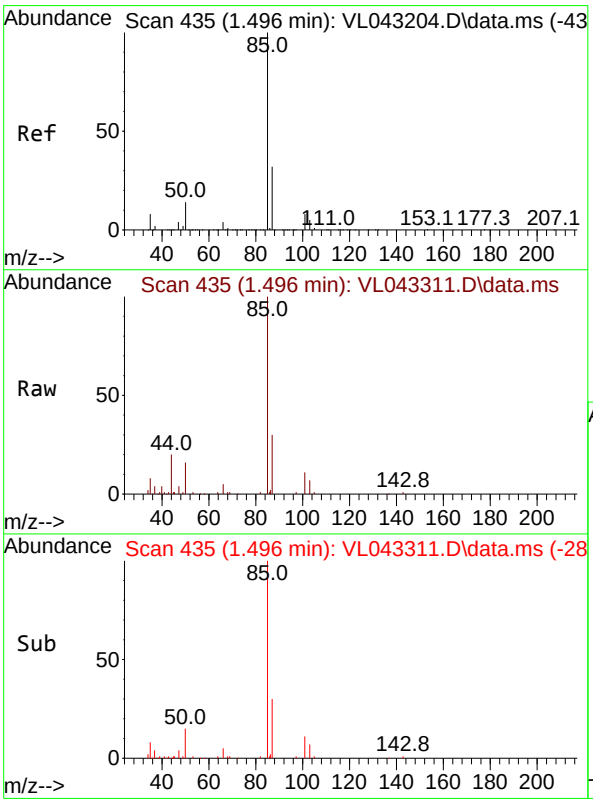
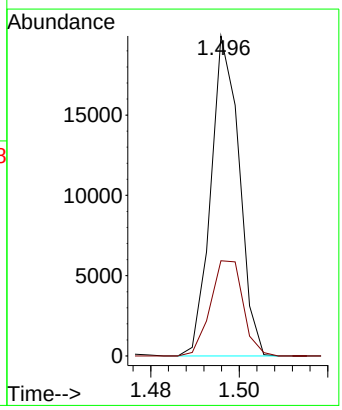


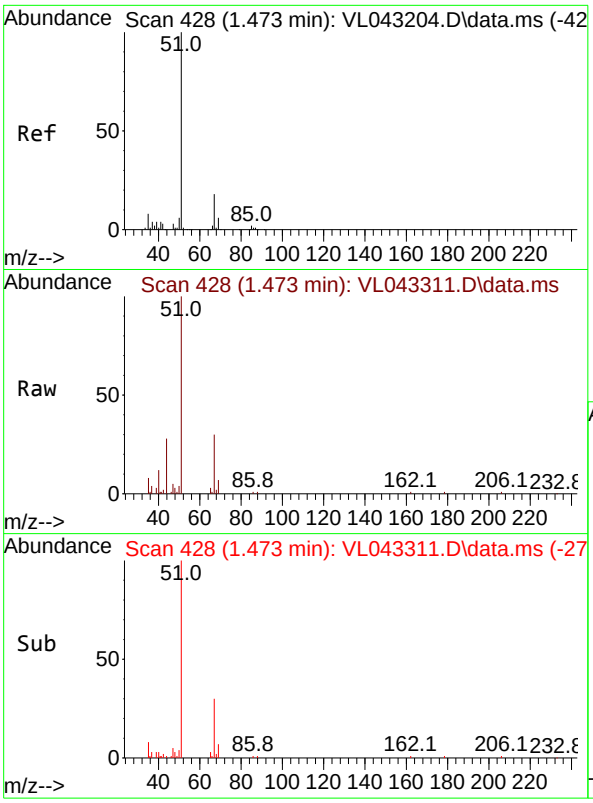


#2
Dichlorodifluoromethane
Concen: 0.405 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 85 Resp: 8883

Ion	Ratio	Lower	Upper
85	100		
87	29.8	25.4	38.2

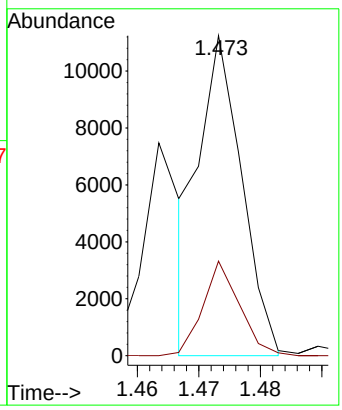




#3
Chlorodifluoromethane
Concen: 0.249 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 51 Resp: 537

Ion	Ratio	Lower	Upper
51	100		
67	25.8	14.9	22.3#



Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Manual Integrations
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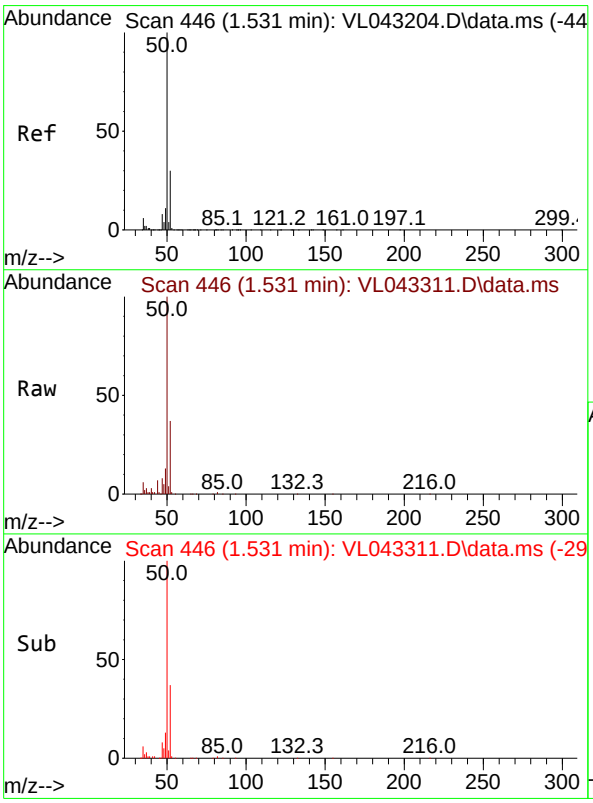
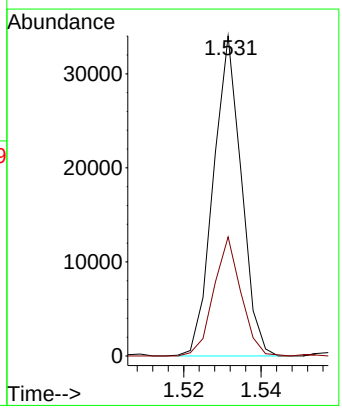
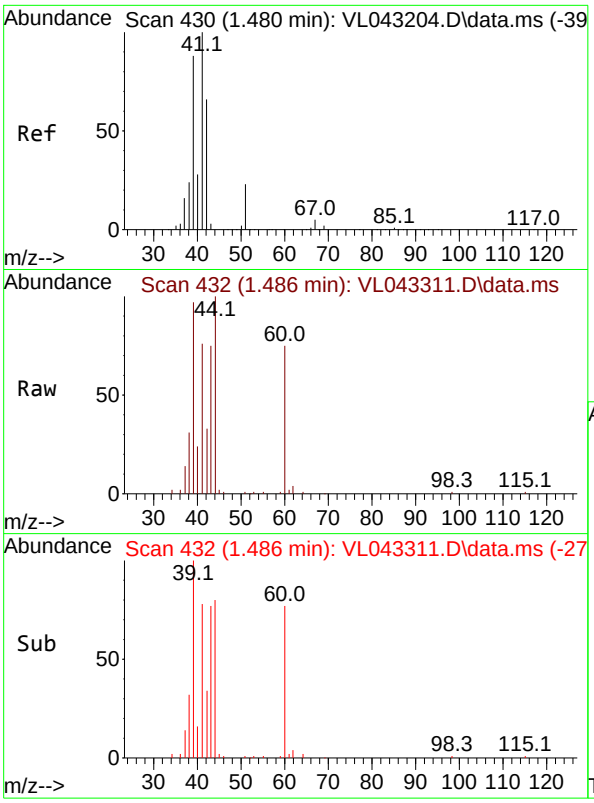


#4
Chloromethane
Concen: 2.090 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 50 Resp: 17124

Ion	Ratio	Lower	Upper
50	100		
52	37.1	24.1	36.1#

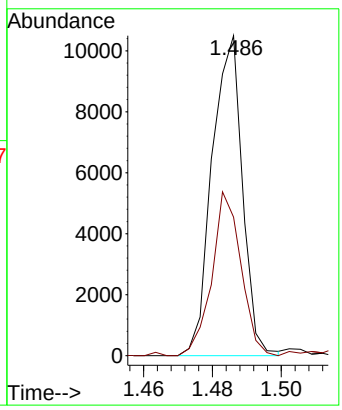




#9
Propene
Concen: 0.703 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 41 Resp: 643

Ion	Ratio	Lower	Upper
41	100		
42	50.0	3.7	5.5



Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

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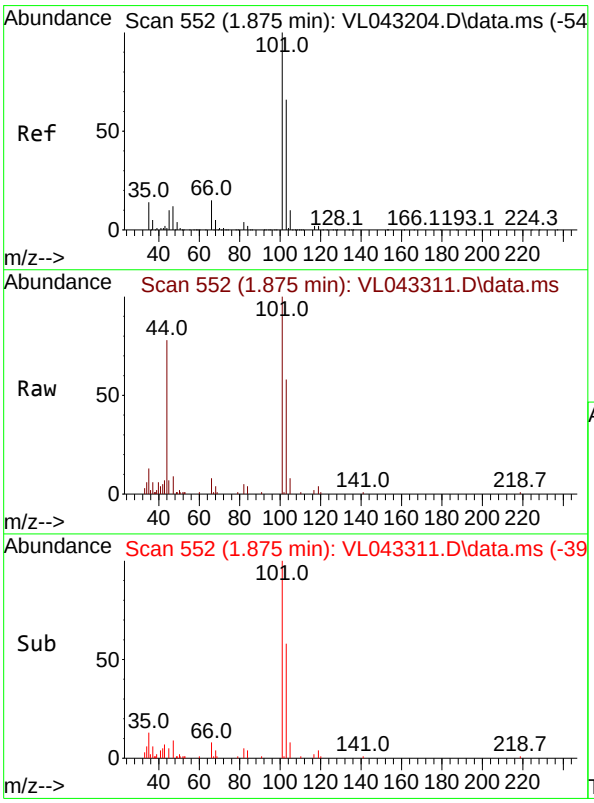
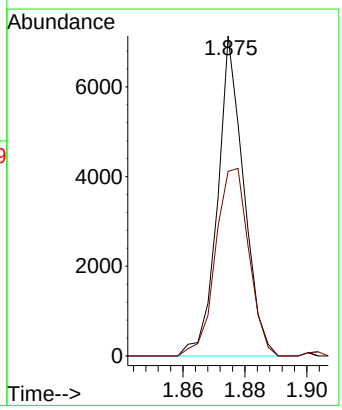
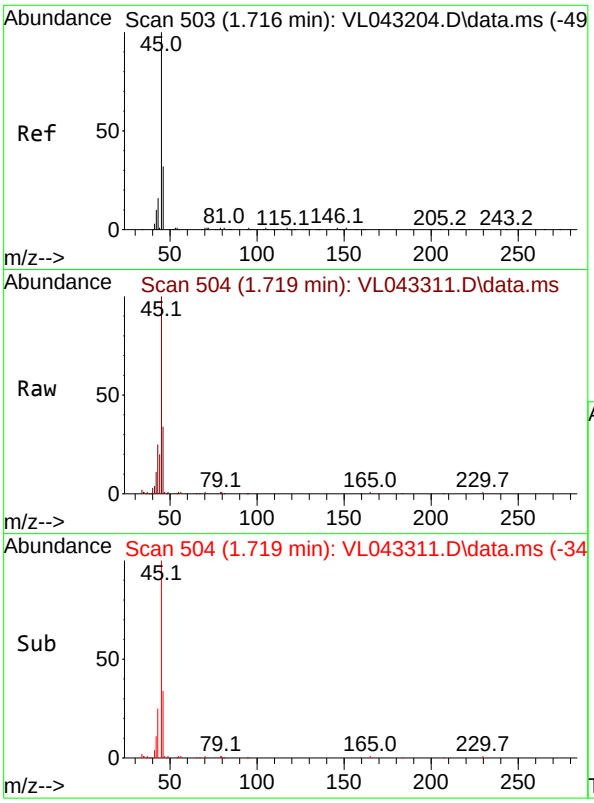


#11
Trichlorofluoromethane
Concen: 0.197 ppbv
RT: 1.875 min Scan# 552
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion:101 Resp: 4183

Ion	Ratio	Lower	Upper
101	100		
103	57.7	52.6	79.0

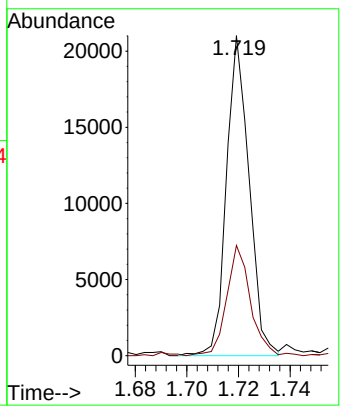




#13
Ethanol
Concen: 3.982 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 45 Resp: 1281

Ion	Ratio	Lower	Upper
45	100		
46	38.2	15.0	59.8



Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Manual Integrations
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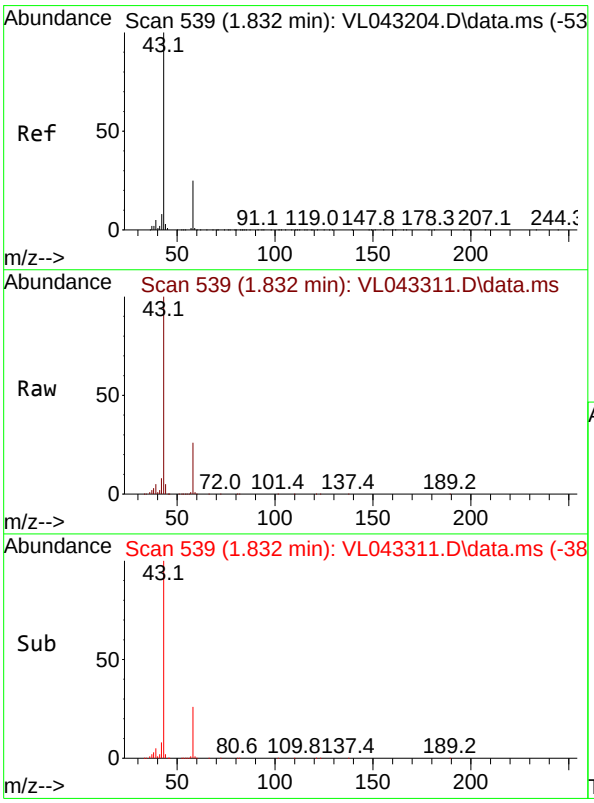
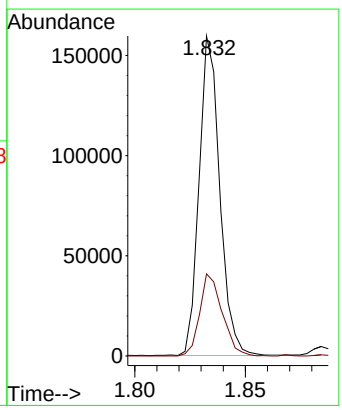
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

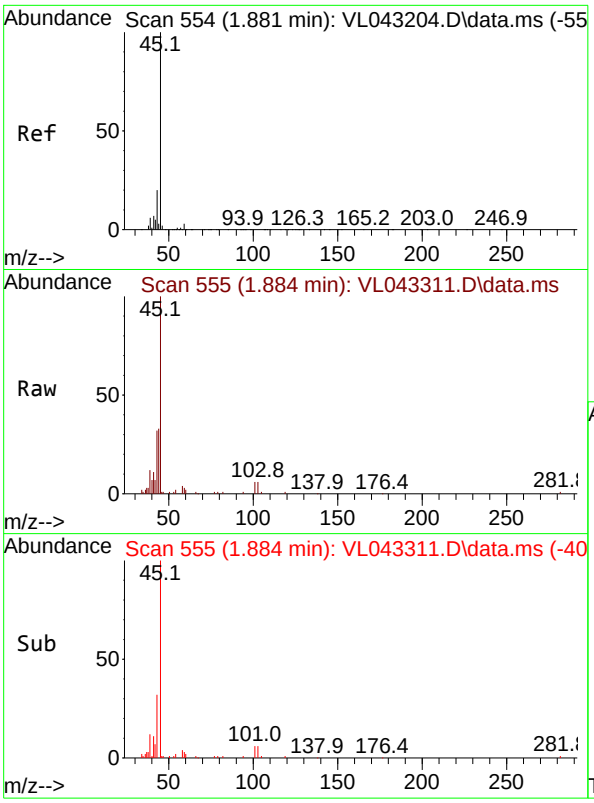


#15
Acetone
Concen: 4.806 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 43 Resp: 103724

Ion	Ratio	Lower	Upper
43	100		
58	28.4	20.7	31.1

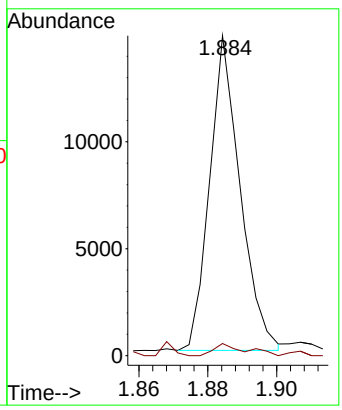




#19
Isopropyl Alcohol
Concen: 0.741 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 45 Resp: 903

Ion	Ratio	Lower	Upper
45	100		
58	326.3	31.3	46.9



Instrument :
MSVOA_L
ClientSampleId :
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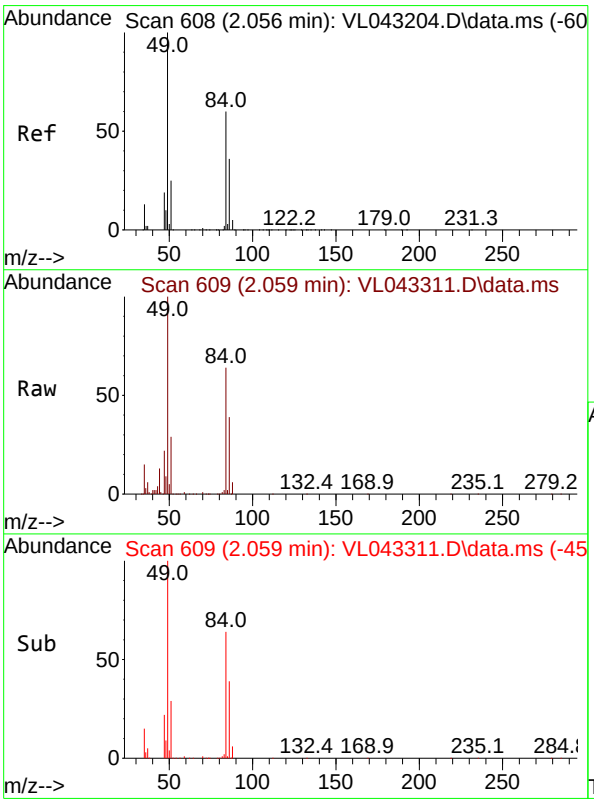
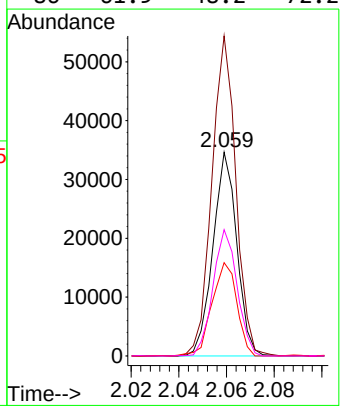
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

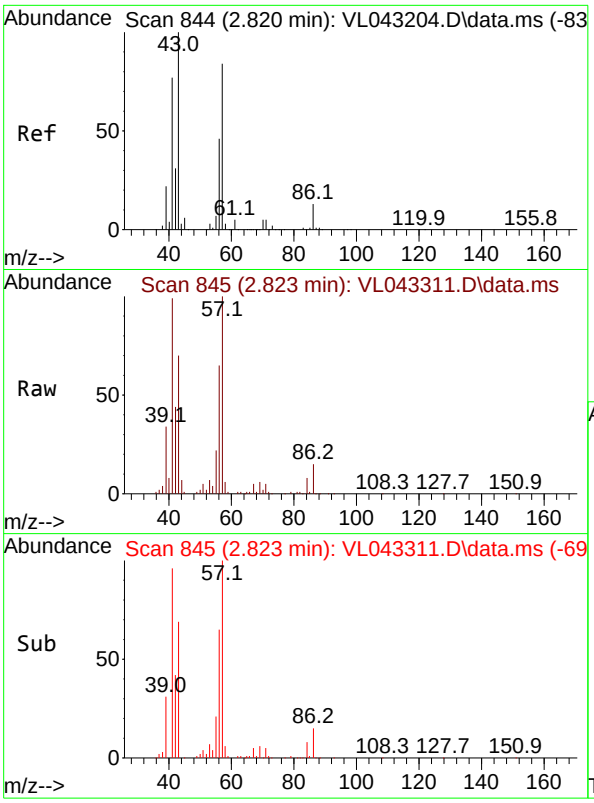


#20
Methylene Chloride
Concen: 3.258 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 84 Resp: 24089

Ion	Ratio	Lower	Upper
84	100		
49	157.1	132.9	199.3
51	45.8	34.8	52.2
86	61.9	48.2	72.2

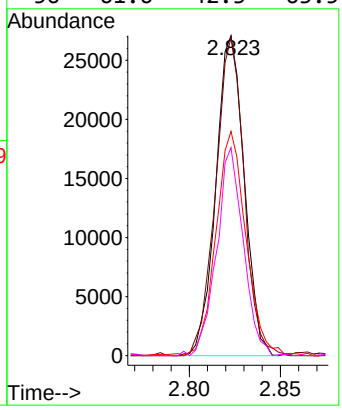




#26
Hexane
Concen: 1.436 ppbv
RT: 2.823 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 57 Resp: 2931

Ion	Ratio	Lower	Upper
57	100		
41	101.3	74.6	111.8
43	75.4	179.0	268.4
56	61.6	42.3	63.5



Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

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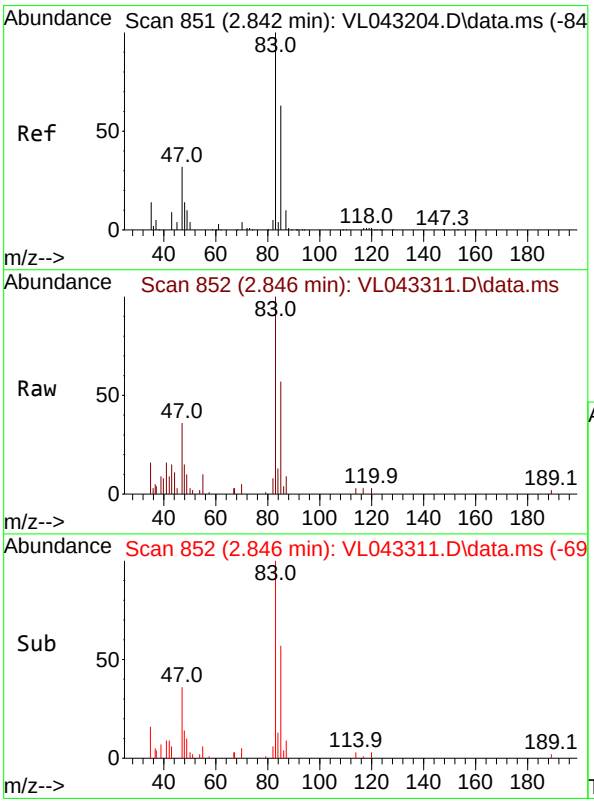
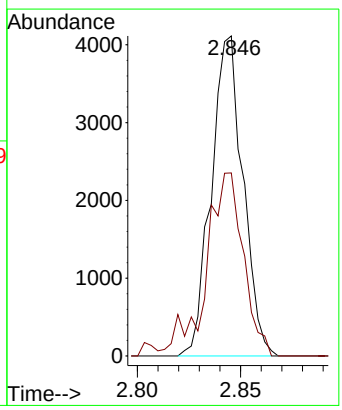
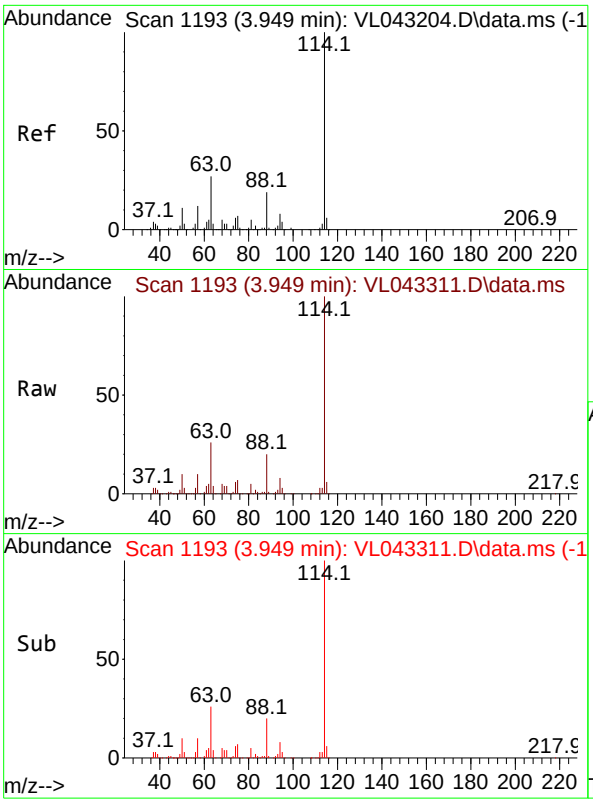


#29
Chloroform
Concen: 0.151 ppbv
RT: 2.846 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 83 Resp: 4392

Ion	Ratio	Lower	Upper
83	100		
85	57.2	50.5	75.7

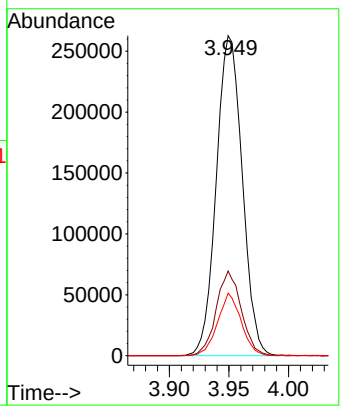




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion:114 Resp: 39781

Ion	Ratio	Lower	Upper
114	100		
63	25.5	21.0	31.6
88	17.8	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

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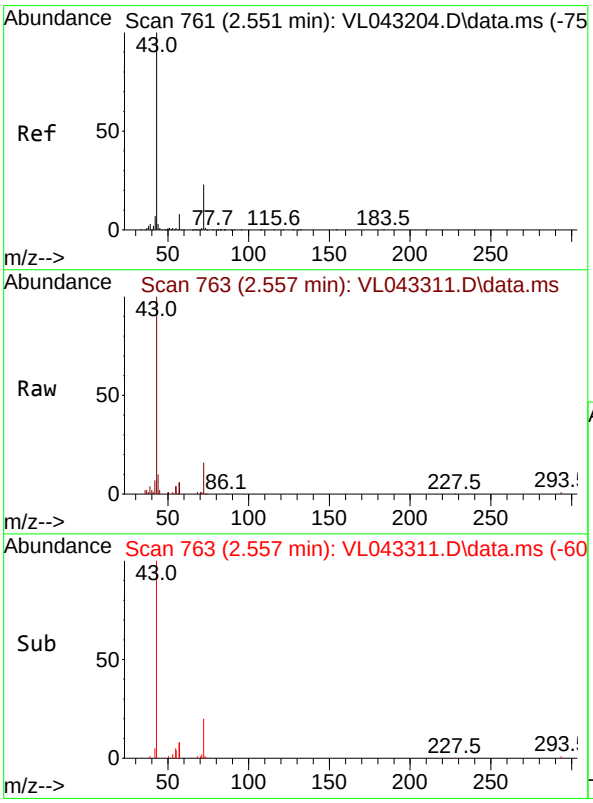
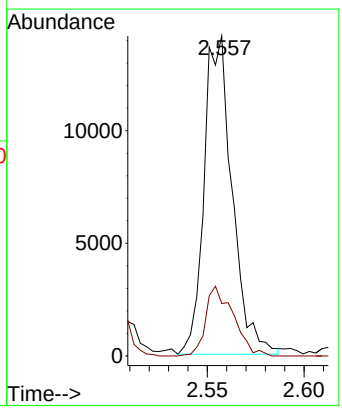
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

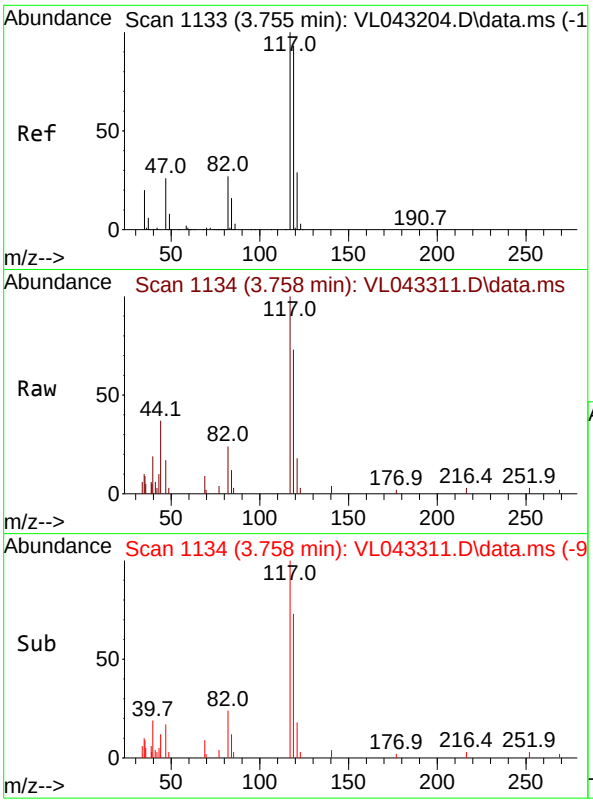


#34
2-Butanone
Concen: 0.506 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 43 Resp: 14218

Ion	Ratio	Lower	Upper
43	100		
72	21.7	18.1	27.1

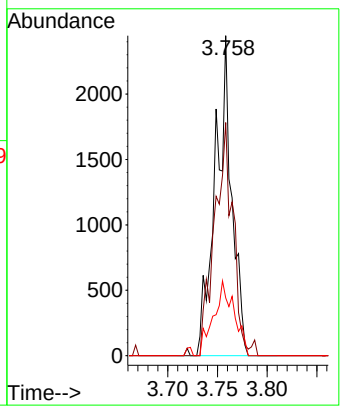




#35
Carbon Tetrachloride
Concen: 0.093 ppbv m
RT: 3.758 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion:117 Resp: 282

Ion	Ratio	Lower	Upper
117	100		
119	72.9	74.6	112.0#
121	18.1	23.2	34.8#



Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

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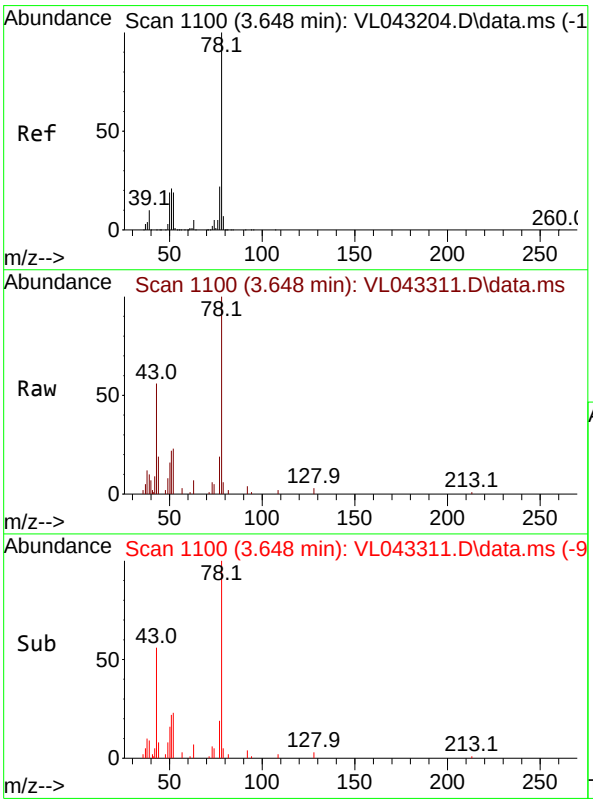
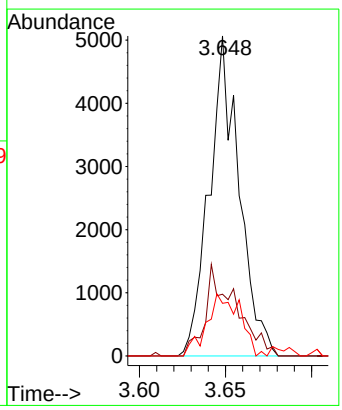
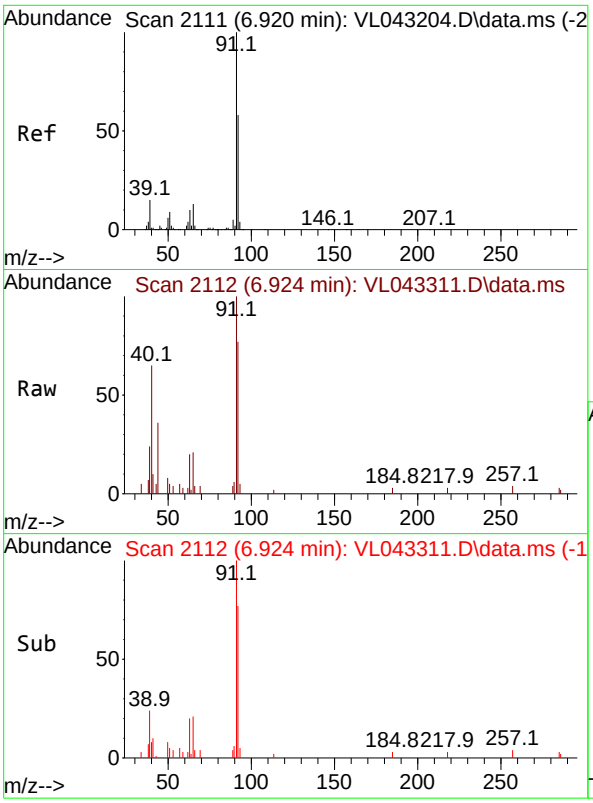


#36
Benzene
Concen: 0.160 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 78 Resp: 6108

Ion	Ratio	Lower	Upper
78	100		
77	19.3	17.5	26.3
50	16.5	15.5	23.3

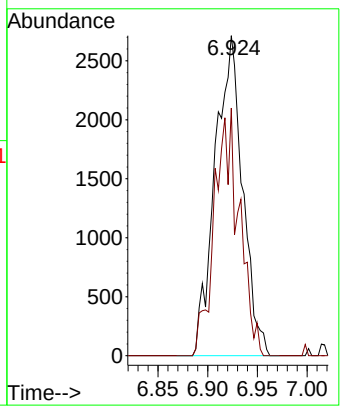




#53
Toluene
Concen: 0.116 ppbv m
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 91 Resp: 523

Ion	Ratio	Lower	Upper
91	100		
92	69.6	47.4	71.0



Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

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Reviewed By :Semsettin Yesilyurt 12/09/2025
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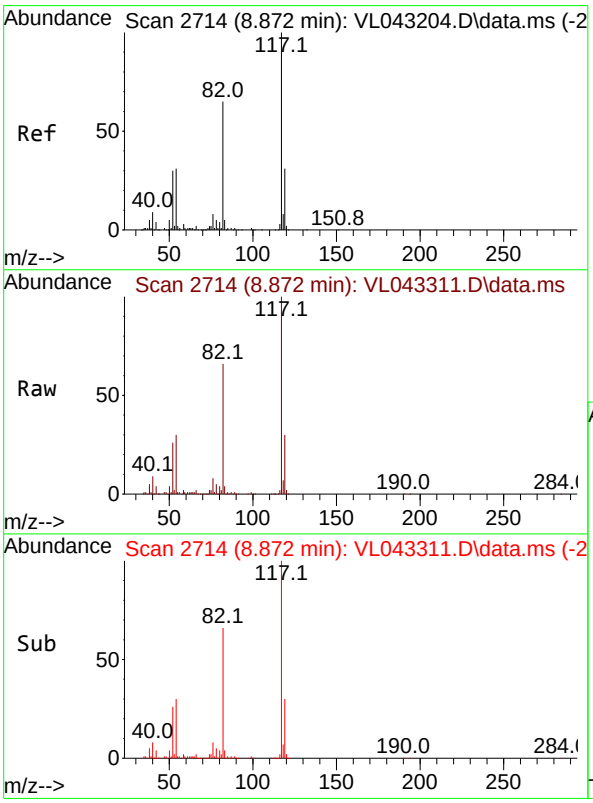
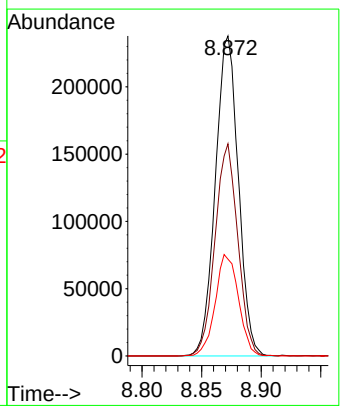
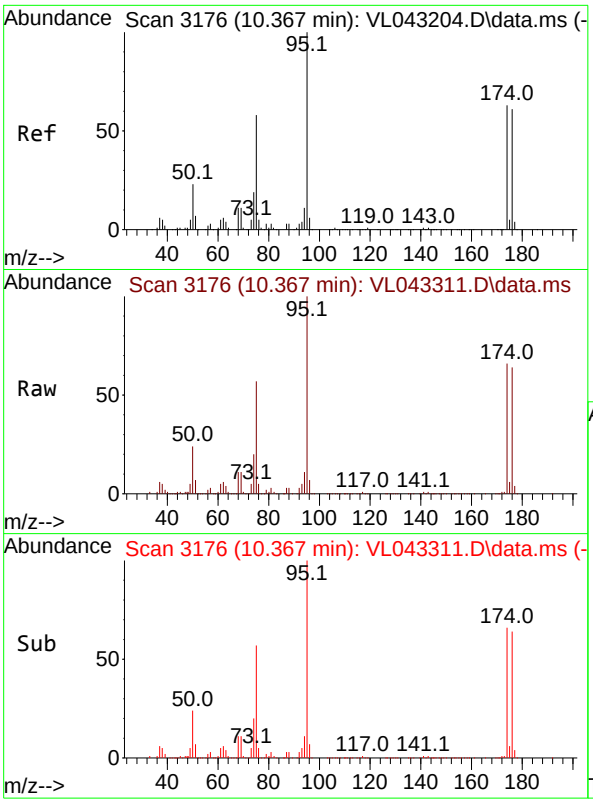


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion:117 Resp: 318793

Ion	Ratio	Lower	Upper
117	100		
82	65.7	56.1	84.1
119	32.2	25.0	37.6

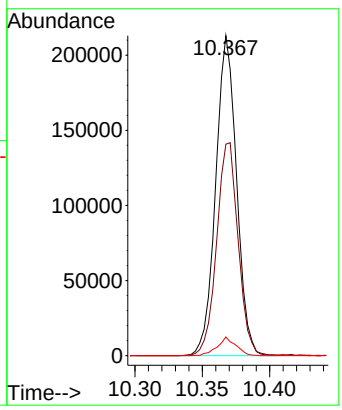




#68
1-Bromo-4-Fluorobenzene
Concen: 9.825 ppbv
RT: 10.367 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 95 Resp: 22957

Ion	Ratio	Lower	Upper
95	100		
174	68.8	50.2	75.2
175	5.2	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

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Manual Integration Report

Sequence:	VL111825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL043203.D	1,1,1,2-Tetrachloroethane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	1,1,2-Trichloroethane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	1,4-Dioxane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	cis-1,3-Dichloropropene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Ethyl Acetate	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Heptane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	m/p-Xylene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Methyl Methacrylate	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Toluene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICCC010	VL043204.D	m/p-Xylene	sam	11/19/2025 8:29:20 AM	MMDadoda	11/19/2025 9:42:15 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	1,1,2-Trichloroethane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	1,4-Dioxane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Benzene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC002	VL043205.D	Dibromochloromethane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Heptane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	m/p-Xylene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	t-1,3-Dichloropropene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Trichloroethene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	1,4-Dioxane	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	2,2,4-Trimethylpentane	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	m/p-Xylene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	t-1,3-Dichloropropene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	Trichloroethene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,1,1-Trichloroethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,1,2,2-Tetrachloroethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,2-Dibromoethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL043208.D	Carbon Tetrachloride	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Naphthalene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Tetrachloroethene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Trichloroethene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	1,1,1-Trichloroethane	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	1,1,2,2-Tetrachloroethane	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Carbon Tetrachloride	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Tetrachloroethene	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Trichloroethene	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Vinyl Chloride	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC015	VL043210.D	m/p-Xylene	sam	11/19/2025 8:32:26 AM	MMDadoda	11/19/2025 9:42:39 AM	Peak Integrated by Software
VSTDICC015	VL043210.D	Propene	sam	11/19/2025 8:32:26 AM	MMDadoda	11/19/2025 9:42:39 AM	Peak Integrated by Software
VSTDICV010	VL043211.D	m/p-Xylene	sam	11/19/2025 8:31:49 AM	MMDadoda	11/19/2025 9:43:04 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL111825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV010	VL043211.D	Propene	sam	11/19/2025 8:31:49 AM	MMDadoda	11/19/2025 9:43:04 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL120825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL043305.D	cis-1,3-Dichloropropene	sam	12/9/2025 7:58:25 AM	MMDadoda	12/11/2025 1:43:47 PM	Peak Integrated by Software
VSTDCCC010	VL043305.D	m/p-Xylene	sam	12/9/2025 7:58:25 AM	MMDadoda	12/11/2025 1:43:47 PM	Peak Integrated by Software
VL1208ABS01	VL043307.D	m/p-Xylene	sam	12/9/2025 7:58:29 AM	MMDadoda	12/11/2025 1:43:50 PM	Peak Integrated by Software
Q3799-01	VL043310.D	Benzene	sam	12/11/2025 12:30:22 PM	MMDadoda	12/11/2025 1:43:54 PM	Peak Integrated by Software
Q3799-01	VL043310.D	Carbon Tetrachloride	sam	12/11/2025 12:30:22 PM	MMDadoda	12/11/2025 1:43:54 PM	Peak Integrated by Software
Q3799-01	VL043310.D	Chlorodifluoromethane	sam	12/11/2025 12:30:22 PM	MMDadoda	12/11/2025 1:43:54 PM	Peak Integrated by Software
Q3799-01	VL043310.D	Chloroform	sam	12/11/2025 12:30:22 PM	MMDadoda	12/11/2025 1:43:54 PM	Peak Integrated by Software
Q3799-01	VL043310.D	Dichlorodifluoromethane	sam	12/11/2025 12:30:22 PM	MMDadoda	12/11/2025 1:43:54 PM	Peak Integrated by Software
Q3799-01	VL043310.D	Toluene	sam	12/11/2025 12:30:22 PM	MMDadoda	12/11/2025 1:43:54 PM	Peak Integrated by Software
Q3799-01DUP	VL043311.D	Carbon Tetrachloride	sam	12/9/2025 8:03:02 AM	MMDadoda	12/11/2025 1:43:58 PM	Peak Integrated by Software
Q3799-01DUP	VL043311.D	Chlorodifluoromethane	sam	12/9/2025 8:03:02 AM	MMDadoda	12/11/2025 1:43:58 PM	Peak Integrated by Software
Q3799-01DUP	VL043311.D	Toluene	sam	12/9/2025 8:03:02 AM	MMDadoda	12/11/2025 1:43:58 PM	Peak Integrated by Software
Q3799-02	VL043312.D	Carbon Tetrachloride	sam	12/9/2025 8:02:18 AM	MMDadoda	12/11/2025 1:44:01 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL120825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3799-02	VL043312.D	Chlorodifluoromethane	sam	12/9/2025 8:02:18 AM	MMDadoda	12/11/2025 1:44:01 PM	Peak Integrated by Software
Q3799-02	VL043312.D	Chloroform	sam	12/9/2025 8:02:18 AM	MMDadoda	12/11/2025 1:44:01 PM	Peak Integrated by Software
Q3799-02	VL043312.D	Toluene	sam	12/9/2025 8:02:18 AM	MMDadoda	12/11/2025 1:44:01 PM	Peak Integrated by Software
Q3799-03	VL043313.D	Chlorodifluoromethane	sam	12/9/2025 8:03:09 AM	MMDadoda	12/11/2025 1:44:05 PM	Peak Integrated by Software
Q3799-03	VL043313.D	Heptane	sam	12/9/2025 8:03:09 AM	MMDadoda	12/11/2025 1:44:05 PM	Peak Integrated by Software
Q3799-03	VL043313.D	m/p-Xylene	sam	12/9/2025 8:03:09 AM	MMDadoda	12/11/2025 1:44:05 PM	Peak Integrated by Software
Q3799-04	VL043314.D	Chlorodifluoromethane	sam	12/9/2025 8:03:14 AM	MMDadoda	12/11/2025 1:44:08 PM	Peak Integrated by Software
Q3799-04	VL043314.D	m/p-Xylene	sam	12/9/2025 8:03:14 AM	MMDadoda	12/11/2025 1:44:08 PM	Peak Integrated by Software
Q3799-04	VL043314.D	Tetrachloroethene	sam	12/9/2025 8:03:14 AM	MMDadoda	12/11/2025 1:44:08 PM	Peak Integrated by Software
Q3799-04	VL043314.D	Toluene	sam	12/9/2025 8:03:14 AM	MMDadoda	12/11/2025 1:44:08 PM	Peak Integrated by Software
Q3799-05	VL043315.D	Carbon Tetrachloride	sam	12/9/2025 8:04:01 AM	MMDadoda	12/11/2025 1:44:12 PM	Peak Integrated by Software
Q3799-05	VL043315.D	Chlorodifluoromethane	sam	12/9/2025 8:04:01 AM	MMDadoda	12/11/2025 1:44:12 PM	Peak Integrated by Software
Q3799-05	VL043315.D	Tetrachloroethene	sam	12/9/2025 8:04:01 AM	MMDadoda	12/11/2025 1:44:12 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL120825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3799-05	VL043315.D	Toluene	sam	12/9/2025 8:04:01 AM	MMDadoda	12/11/2025 1:44:12 PM	Peak Integrated by Software
Q3799-06	VL043316.D	4-Methyl-2-Pentanone	sam	12/9/2025 8:03:20 AM	MMDadoda	12/11/2025 1:44:20 PM	Peak Integrated by Software
Q3799-06	VL043316.D	Carbon Tetrachloride	sam	12/9/2025 8:03:20 AM	MMDadoda	12/11/2025 1:44:20 PM	Peak Integrated by Software
Q3799-06	VL043316.D	Chlorodifluoromethane	sam	12/9/2025 8:03:20 AM	MMDadoda	12/11/2025 1:44:20 PM	Peak Integrated by Software
Q3799-06	VL043316.D	Heptane	sam	12/9/2025 8:03:20 AM	MMDadoda	12/11/2025 1:44:20 PM	Peak Integrated by Software
Q3799-06	VL043316.D	Propene	sam	12/9/2025 8:03:20 AM	MMDadoda	12/11/2025 1:44:20 PM	Peak Integrated by Software
Q3799-06	VL043316.D	Styrene	sam	12/9/2025 8:03:20 AM	MMDadoda	12/11/2025 1:44:20 PM	Peak Integrated by Software
Q3799-06	VL043316.D	tert-Butyl alcohol	sam	12/9/2025 8:03:20 AM	MMDadoda	12/11/2025 1:44:20 PM	Peak Integrated by Software
Q3799-03DL2	VL043331.D	Ethanol	sam	12/11/2025 12:30:13 PM	MMDadoda	12/11/2025 1:45:04 PM	Peak Integrated by Software

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM				
SubDirectory	VL111825	HP Acquire Method	TO15AIR		HP Processing Method	VL111825AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2691
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2691
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043202.D	18 Nov 2025 08:46	SY/MD	Ok
2	VSTDICC0.5	VL043203.D	18 Nov 2025 09:29	SY/MD	Ok,M
3	VSTDICCC010	VL043204.D	18 Nov 2025 10:02	SY/MD	Ok,M
4	VSTDICC002	VL043205.D	18 Nov 2025 10:37	SY/MD	Ok,M
5	VSTDICC001	VL043206.D	18 Nov 2025 11:10	SY/MD	Ok,M
6	VSTDICC0.5	VL043207.D	18 Nov 2025 11:43	SY/MD	Not Ok
7	VSTDICC0.1	VL043208.D	18 Nov 2025 12:16	SY/MD	Ok,M
8	VSTDICC0.03	VL043209.D	18 Nov 2025 12:49	SY/MD	Ok,M
9	VSTDICC015	VL043210.D	18 Nov 2025 13:24	SY/MD	Ok,M
10	VSTDICV010	VL043211.D	18 Nov 2025 13:56	SY/MD	Ok,M
11	VL1118ABL01	VL043212.D	18 Nov 2025 14:41	SY/MD	Ok
12	VL1118ABS01	VL043213.D	18 Nov 2025 15:24	SY/MD	Ok,M
13	Q3651-03	VL043214.D	18 Nov 2025 15:57	SY/MD	Dilution
14	Q3651-03DUP	VL043215.D	18 Nov 2025 16:31	SY/MD	Ok,M
15	Q3651-04	VL043216.D	18 Nov 2025 17:06	SY/MD	Dilution
16	Q3651-06	VL043217.D	18 Nov 2025 17:40	SY/MD	Dilution
17	Q3650-03	VL043218.D	18 Nov 2025 18:15	SY/MD	Ok,M
18	Q3650-04	VL043219.D	18 Nov 2025 18:49	SY/MD	Ok,M
19	Q3650-05	VL043220.D	18 Nov 2025 19:23	SY/MD	Ok,M
20	Q3650-06	VL043221.D	18 Nov 2025 19:58	SY/MD	Ok,M
21	Q3651-01	VL043222.D	18 Nov 2025 20:29	SY/MD	Ok,M

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM				
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2691
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2691
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3651-02	VL043223.D	18 Nov 2025 21:01	SY/MD	Ok,M
23	Q3651-05	VL043224.D	18 Nov 2025 21:33	SY/MD	Ok,M
24	Q3650-01	VL043225.D	18 Nov 2025 22:05	SY/MD	Ok,M
25	Q3650-02	VL043226.D	18 Nov 2025 22:37	SY/MD	Ok,M
26	Q3651-03DL	VL043227.D	18 Nov 2025 23:09	SY/MD	Ok,M
27	Q3651-03DL	VL043228.D	18 Nov 2025 23:41	SY/MD	Not Ok
28	Q3651-04DL	VL043229.D	19 Nov 2025 00:13	SY/MD	Ok,M
29	Q3651-06DL	VL043230.D	19 Nov 2025 00:44	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL120825

Review By	Semsettin Yesilyurt	Review On	12/9/2025 8:08:46 AM				
Supervise By	John Carlone	Supervise On	12/9/2025 1:27:26 PM				
SubDirectory	VL120825	HP Acquire Method	TO15AIR		HP Processing Method	VL111825AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2692
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2692
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043304.D	08 Dec 2025 07:56	SY/MD	Ok
2	VSTDCCC010	VL043305.D	08 Dec 2025 08:44	SY/MD	Ok,M
3	VL1208ABL01	VL043306.D	08 Dec 2025 09:36	SY/MD	Ok
4	VL1208ABS01	VL043307.D	08 Dec 2025 10:24	SY/MD	Ok,M
5	QC120225 CAN 10297	VL043308.D	08 Dec 2025 11:11	SY/MD	Ok
6	QC120325 CAN 10606	VL043309.D	08 Dec 2025 11:44	SY/MD	Ok
7	Q3799-01	VL043310.D	08 Dec 2025 12:40	SY/MD	Ok,M
8	Q3799-01DUP	VL043311.D	08 Dec 2025 13:16	SY/MD	Ok,M
9	Q3799-02	VL043312.D	08 Dec 2025 13:52	SY/MD	Ok,M
10	Q3799-03	VL043313.D	08 Dec 2025 14:29	SY/MD	Dilution
11	Q3799-04	VL043314.D	08 Dec 2025 15:37	SY/MD	Ok,M
12	Q3799-05	VL043315.D	08 Dec 2025 16:25	SY/MD	Ok,M
13	Q3799-06	VL043316.D	08 Dec 2025 17:00	SY/MD	Dilution
14	Q3797-02	VL043317.D	08 Dec 2025 17:36	SY/MD	Ok,M
15	Q3797-04	VL043318.D	08 Dec 2025 18:11	SY/MD	Ok,M
16	Q3797-05	VL043319.D	08 Dec 2025 18:46	SY/MD	Ok,M
17	Q3798-02	VL043320.D	08 Dec 2025 19:21	SY/MD	Ok,M
18	Q3798-03	VL043321.D	08 Dec 2025 19:56	SY/MD	Ok,M
19	Q3799-03DL	VL043322.D	08 Dec 2025 20:50	SY/MD	Dilution
20	Q3799-03DL2	VL043323.D	08 Dec 2025 21:23	SY/MD	Not Ok
21	Q3799-06DL	VL043324.D	08 Dec 2025 21:56	SY/MD	Ok

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL120825

Review By	Semsettin Yesilyurt	Review On	12/9/2025 8:08:46 AM				
Supervise By	John Carlone	Supervise On	12/9/2025 1:27:26 PM				
SubDirectory	VL120825	HP Acquire Method	TO15AIR		HP Processing Method	VL111825AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2692
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2692
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3797-01	VL043325.D	08 Dec 2025 22:28	SY/MD	Ok,M
23	Q3797-01DL	VL043326.D	08 Dec 2025 23:01	SY/MD	Not Ok
24	Q3797-03	VL043327.D	08 Dec 2025 23:34	SY/MD	Ok,M
25	Q3797-03DL	VL043328.D	09 Dec 2025 00:06	SY/MD	Not Ok
26	Q3798-01	VL043329.D	09 Dec 2025 00:38	SY/MD	Ok,M
27	Q3798-01DL	VL043330.D	09 Dec 2025 01:11	SY/MD	Not Ok
28	Q3799-03DL2	VL043331.D	09 Dec 2025 07:30	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM		
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2691
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2691
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043202.D	18 Nov 2025 08:46		SY/MD	Ok
2	VSTDICC0.5	VSTDICC0.5	VL043203.D	18 Nov 2025 09:29		SY/MD	Ok,M
3	VSTDICCC010	VSTDICCC010	VL043204.D	18 Nov 2025 10:02	LR-20	SY/MD	Ok,M
4	VSTDICC002	VSTDICC002	VL043205.D	18 Nov 2025 10:37		SY/MD	Ok,M
5	VSTDICC001	VSTDICC001	VL043206.D	18 Nov 2025 11:10		SY/MD	Ok,M
6	VSTDICC0.5	VSTDICC0.5	VL043207.D	18 Nov 2025 11:43	Not used	SY/MD	Not Ok
7	VSTDICC0.1	VSTDICC0.1	VL043208.D	18 Nov 2025 12:16		SY/MD	Ok,M
8	VSTDICC0.03	VSTDICC0.03	VL043209.D	18 Nov 2025 12:49		SY/MD	Ok,M
9	VSTDICC015	VSTDICC015	VL043210.D	18 Nov 2025 13:24		SY/MD	Ok,M
10	VSTDICV010	ICVVL111825	VL043211.D	18 Nov 2025 13:56	ICV failed for com.#66	SY/MD	Ok,M
11	VL1118ABL01	VL1118ABL01	VL043212.D	18 Nov 2025 14:41		SY/MD	Ok
12	VL1118ABS01	VL1118ABS01	VL043213.D	18 Nov 2025 15:24		SY/MD	Ok,M
13	Q3651-03	IA1	VL043214.D	18 Nov 2025 15:57	Need 20X	SY/MD	Dilution
14	Q3651-03DUP	IA1DUP	VL043215.D	18 Nov 2025 16:31		SY/MD	Ok,M
15	Q3651-04	IA2	VL043216.D	18 Nov 2025 17:06	Need 10X	SY/MD	Dilution
16	Q3651-06	IA3	VL043217.D	18 Nov 2025 17:40	Need 10X	SY/MD	Dilution
17	Q3650-03	IA1	VL043218.D	18 Nov 2025 18:15		SY/MD	Ok,M
18	Q3650-04	IA2	VL043219.D	18 Nov 2025 18:49		SY/MD	Ok,M

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM		
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2691
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2691
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3650-05	IA3	VL043220.D	18 Nov 2025 19:23		SY/MD	Ok,M
20	Q3650-06	OA1	VL043221.D	18 Nov 2025 19:58		SY/MD	Ok,M
21	Q3651-01	SV1	VL043222.D	18 Nov 2025 20:29		SY/MD	Ok,M
22	Q3651-02	SV2	VL043223.D	18 Nov 2025 21:01		SY/MD	Ok,M
23	Q3651-05	SV3	VL043224.D	18 Nov 2025 21:33		SY/MD	Ok,M
24	Q3650-01	SV1	VL043225.D	18 Nov 2025 22:05		SY/MD	Ok,M
25	Q3650-02	SV2	VL043226.D	18 Nov 2025 22:37		SY/MD	Ok,M
26	Q3651-03DL	IA1DL	VL043227.D	18 Nov 2025 23:09		SY/MD	Ok,M
27	Q3651-03DL	IA1DL	VL043228.D	18 Nov 2025 23:41	Not Required	SY/MD	Not Ok
28	Q3651-04DL	IA2DL	VL043229.D	19 Nov 2025 00:13		SY/MD	Ok,M
29	Q3651-06DL	IA3DL	VL043230.D	19 Nov 2025 00:44		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL120825

Review By	Semsettin Yesilyurt	Review On	12/9/2025 8:08:46 AM		
Supervise By	John Carlone	Supervise On	12/9/2025 1:27:26 PM		
SubDirectory	VL120825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2692
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2692
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043304.D	08 Dec 2025 07:56		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL043305.D	08 Dec 2025 08:44		SY/MD	Ok,M
3	VL1208ABL01	VL1208ABL01	VL043306.D	08 Dec 2025 09:36		SY/MD	Ok
4	VL1208ABS01	VL1208ABS01	VL043307.D	08 Dec 2025 10:24		SY/MD	Ok,M
5	QC120225 CAN 10297	QC120225 CAN 10297	VL043308.D	08 Dec 2025 11:11		SY/MD	Ok
6	QC120325 CAN 10606	QC120325 CAN 10606	VL043309.D	08 Dec 2025 11:44		SY/MD	Ok
7	Q3799-01	AA-1	VL043310.D	08 Dec 2025 12:40		SY/MD	Ok,M
8	Q3799-01DUP	AA-1DUP	VL043311.D	08 Dec 2025 13:16		SY/MD	Ok,M
9	Q3799-02	9B-IA-1	VL043312.D	08 Dec 2025 13:52		SY/MD	Ok,M
10	Q3799-03	10-IA-1	VL043313.D	08 Dec 2025 14:29	Need 10X	SY/MD	Dilution
11	Q3799-04	11-IA-1	VL043314.D	08 Dec 2025 15:37		SY/MD	Ok,M
12	Q3799-05	13-IA-1	VL043315.D	08 Dec 2025 16:25		SY/MD	Ok,M
13	Q3799-06	16-IA-1	VL043316.D	08 Dec 2025 17:00	Need 10X	SY/MD	Dilution
14	Q3797-02	IA1	VL043317.D	08 Dec 2025 17:36		SY/MD	Ok,M
15	Q3797-04	IA2	VL043318.D	08 Dec 2025 18:11		SY/MD	Ok,M
16	Q3797-05	OA1	VL043319.D	08 Dec 2025 18:46		SY/MD	Ok,M
17	Q3798-02	IA1	VL043320.D	08 Dec 2025 19:21		SY/MD	Ok,M
18	Q3798-03	OA1	VL043321.D	08 Dec 2025 19:56		SY/MD	Ok,M

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL120825

Review By	Semsettin Yesilyurt	Review On	12/9/2025 8:08:46 AM		
Supervise By	John Carlone	Supervise On	12/9/2025 1:27:26 PM		
SubDirectory	VL120825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2692
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2692
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3799-03DL	10-IA-1DL	VL043322.D	08 Dec 2025 20:50	Need 40X;Not Match exactly please confirm	SY/MD	Dilution
20	Q3799-03DL2	10-IA-1DL2	VL043323.D	08 Dec 2025 21:23	Need further dilution,rerun 400X	SY/MD	Not Ok
21	Q3799-06DL	16-IA-1DL	VL043324.D	08 Dec 2025 21:56		SY/MD	Ok
22	Q3797-01	SV1	VL043325.D	08 Dec 2025 22:28		SY/MD	Ok,M
23	Q3797-01DL	SV1DL	VL043326.D	08 Dec 2025 23:01	Not Required	SY/MD	Not Ok
24	Q3797-03	SV2	VL043327.D	08 Dec 2025 23:34		SY/MD	Ok,M
25	Q3797-03DL	SV2DL	VL043328.D	09 Dec 2025 00:06	Not Required	SY/MD	Not Ok
26	Q3798-01	SV1	VL043329.D	09 Dec 2025 00:38		SY/MD	Ok,M
27	Q3798-01DL	SV1DL	VL043330.D	09 Dec 2025 01:11	Not Required	SY/MD	Not Ok
28	Q3799-03DL2	10-IA-1DL2	VL043331.D	09 Dec 2025 07:30	Not match exactly please check	SY/MD	Ok,M

M : Manual Integration

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

Prep Standard - Chemical Standard Summary

Order ID : Q3799

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: VL120825,

Standard ID :
AP2692,AP2694,AP2695,AP2696,AP2697,

Chemical ID :
A1117,A1141,A1142,A1143,

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

Air STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
47	Internal Standard/Surrogate Mix-80 ppbv	AP2692	11/18/2025	12/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/25/2025

FROM 2.40000psi of A1141 + 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	AP2694	11/18/2025	12/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/25/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1142 = 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
2397	TO-15 -2 PPBV CAL.MIX	AP2695	11/18/2025	12/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/25/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2694 = 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	AP2696	11/18/2025	12/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/25/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2694 = 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	AP2697	11/18/2025	12/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/25/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1143 = Final Quantity: 30.000 psi

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC884004	10/01/2026	10/14/2025 / sam	10/13/2025 / sam	A1141

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

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

A1141

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC884004
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 10/01/2025
Expiration Date: 10/01/2026

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	051925-001RRR	Email051925	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.019 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.013 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorbenzene	1 ppm	0.981 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: 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

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.

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

Process Report

Order ID : Q3799

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
12/08/2025	B2512003	Q3799-01	-3.9	10280	6 L	10520		C2511003	**VL043290.D** Seq :VL112425 TUNE : VL043277.D ICAL : VL043209.D CCAL : VL043278.D MB : VL043279.D
12/08/2025	B2512003	Q3799-02	-5.5	10608	6 L	10771		C2511003	**VL043290.D** Seq :VL112425 TUNE : VL043277.D ICAL : VL043209.D CCAL : VL043278.D MB : VL043279.D
12/08/2025	B2512003	Q3799-05	-14.1	10320	6 L	10626		C2511003	**VL043290.D** Seq :VL112425 TUNE : VL043277.D ICAL : VL043209.D CCAL : VL043278.D MB : VL043279.D
12/08/2025	B2512003	Q3799-04	-6.3	10315	6 L	10240		C2511003	**VL043290.D** Seq :VL112425 TUNE : VL043277.D ICAL : VL043209.D CCAL : VL043278.D MB : VL043279.D
12/08/2025	B2512003	Q3799-03	-7.5	10283	6 L	10207		C2511002	**VL043259.D** Seq :VL112025 TUNE : VL043256.D ICAL : VL043209.D CCAL : VL043257.D MB : VL043258.D
12/08/2025	B2512003	Q3799-06	-5.9	10266	6 L	10482		C2511002	**VL043259.D** Seq :VL112025 TUNE : VL043256.D ICAL : VL043209.D CCAL : VL043257.D MB : VL043258.D

Canister Cleaning

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

Canister Batch : C2511003

Type of Canister : 6 L

Cleaning Date : 11/24/2025

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
10315	-30	11/25/2025	11/25/2025	-30	12/26/2025	Q3799-04	10315	VL043290.D
10590	-30	11/25/2025	11/25/2025	-30	12/26/2025		10315	VL043290.D
10320	-30	11/25/2025	11/25/2025	-30	12/26/2025	Q3799-05	10315	VL043290.D
10595	-30	11/25/2025	11/25/2025	-30	12/26/2025		10315	VL043290.D
10321	-30	11/25/2025	11/25/2025	-30	12/26/2025	Q3836-02	10315	VL043290.D
10608	-30	11/25/2025	11/25/2025	-30	12/26/2025	Q3799-02	10315	VL043290.D
10281	-30	11/25/2025	11/25/2025	-30	12/26/2025		10315	VL043290.D
10280	-30	11/25/2025	11/25/2025	-30	12/26/2025	Q3799-01	10315	VL043290.D

Canister Cleaning

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

Canister Batch : C2511002

Type of Canister : 6 L

Cleaning Date : 11/17/2025

Analyst : sam

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10588	-30	11/18/2025	11/20/2025	-30	11/19/2025	Q3798-02	10588	VL043259.D
10296	-30	11/18/2025	11/20/2025	-30	11/19/2025	Q3797-03	10588	VL043259.D
10266	-30	11/18/2025	11/20/2025	-30	11/19/2025	Q3799-06	10588	VL043259.D
10060	-30	11/18/2025	11/20/2025	-30	11/19/2025	Q3797-02	10588	VL043259.D
10283	-30	11/18/2025	11/20/2025	-30	11/19/2025	Q3799-03	10588	VL043259.D
10300	-30	11/18/2025	11/20/2025	-30	11/19/2025	Q3797-05	10588	VL043259.D
10153	-30	11/18/2025	11/20/2025	-30	11/19/2025	Q3797-01	10588	VL043259.D
10492	-30	11/18/2025	11/20/2025	-30	11/19/2025	Q3798-01	10588	VL043259.D

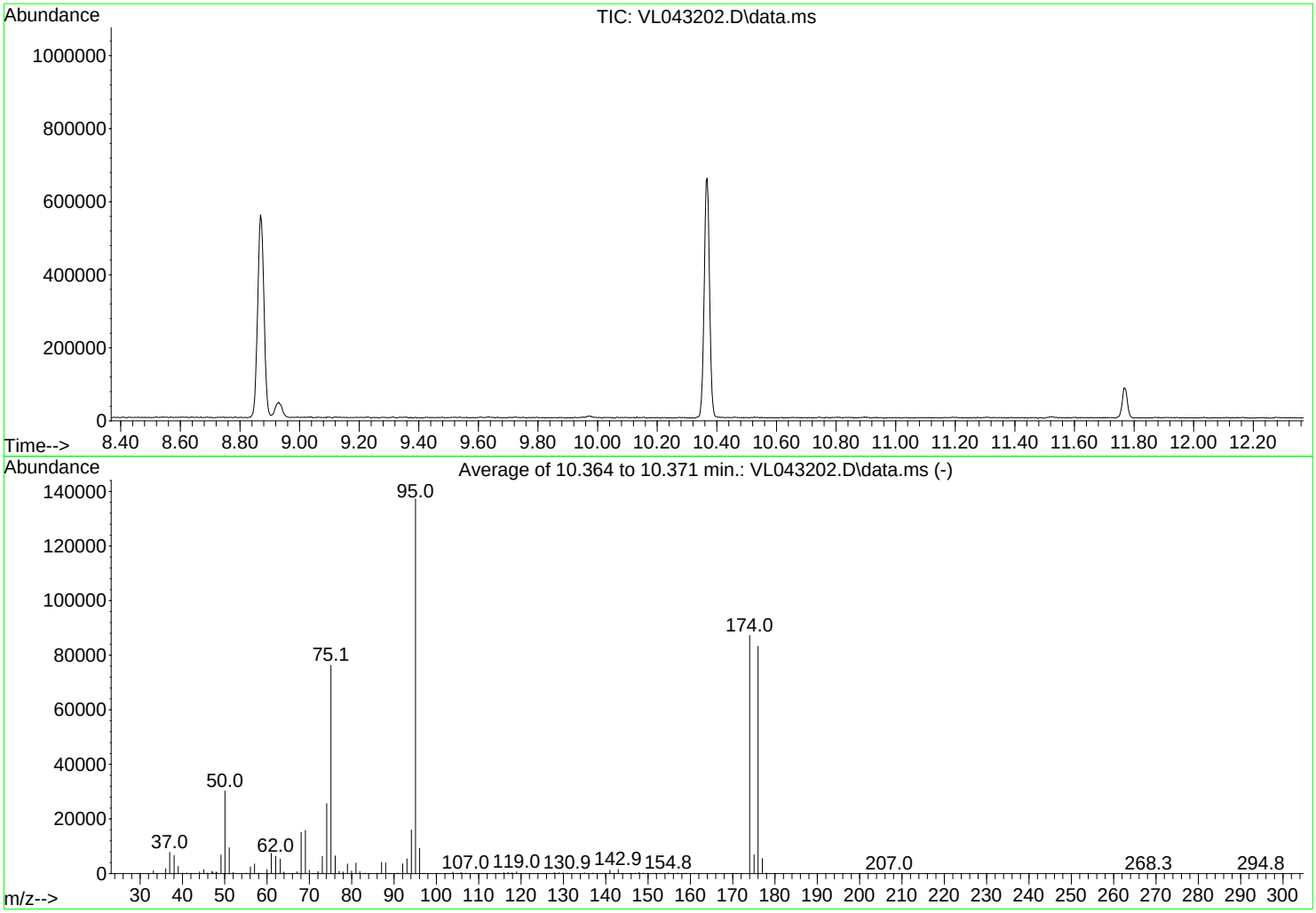
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043202.D
Acq On : 18 Nov 2025 08:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Nov 19 01:11:25 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3156

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.1	30285	PASS
75	95	30	66	55.6	76296	PASS
95	95	100	100	100.0	137266	PASS
96	95	5	9	6.7	9227	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.6	87269	PASS
175	174	4	9	7.8	6847	PASS
176	174	93	101	95.5	83301	PASS
177	176	5	9	6.6	5509	PASS

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL111825AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Nov 19 01:11:25 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL043209.D 0.1 =VL043208.D 0.5 =VL043203.D 1 =VL043206.D 2 =VL043205.D 10 =VL043204.D 15 =VL043210.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.398	1.505	1.476	1.340	1.334	1.410	5.53
3)		Chlorodifluoro...			1.545	1.404	1.437	1.317	1.231	1.387	8.60
4)		Chloromethane			0.521	0.559	0.568	0.498	0.489	0.527	6.72
5)	T	Vinyl Chloride	0.724	0.655	0.533	0.580	0.575	0.486	0.483	0.577	15.33
6)	T	Bromomethane			0.300	0.302	0.286	0.253	0.258	0.280	8.30
7)		Chloroethane			0.246	0.248	0.236	0.194	0.199	0.225	11.59
8)	T	Dichlorotetraf...			1.156	1.241	1.262	1.091	1.116	1.173	6.43
9)	T	Propene			0.677	0.598	0.621	0.501	0.548	0.589	11.44
10)	T	Heptane			2.106	1.804	1.728	1.604	1.522	1.753	12.87
11)	T	Trichlorofluor...			1.238	1.515	1.487	1.240	1.352	1.367	9.62
12)	T	1,1,2-Trichlor...			1.061	1.142	1.115	0.987	1.029	1.067	5.92
13)		Ethanol			0.215	0.231	0.252	0.166	0.172	0.207	17.99
14)	T	Bromoethene			0.448	0.423	0.436	0.362	0.376	0.409	9.29
15)	T	Acetone			1.721	1.591	1.519	1.032	1.085	1.389	22.41
16)	T	1,3-Butadiene			0.745	0.629	0.626	0.551	0.546	0.619	13.01
17)		tert-Butyl alc...			1.784	2.014	1.880	1.705	1.735	1.824	6.87
18)	T	1,1-Dichloroet...			0.555	0.530	0.515	0.441	0.443	0.497	10.52
19)	T	Isopropyl Alcohol			0.848	0.861	0.823	0.684	0.709	0.785	10.51
20)	T	Methylene Chlo...			0.906	0.710	0.585	0.398	0.403	0.600	35.87
21)	T	Allyl Chloride			1.139	0.895	0.936	0.849	0.855	0.935	12.75
22)	T	trans-1,2-Dich...			0.605	0.614	0.599	0.499	0.521	0.568	9.39
23)	T	Vinyl Acetate			1.885	1.632	1.682	1.622	1.565	1.677	7.36
24)	T	1,1-Dichloroet...			1.050	1.173	1.194	1.018	1.044	1.096	7.42
25)	T	Ethyl Acetate			3.371	3.123	3.074	2.759	2.655	2.996	9.68
26)	T	Hexane			1.374	1.424	1.375	1.235	1.161	1.314	8.44
27)	T	Carbon Disulfide			1.303	1.424	1.432	1.257	1.291	1.341	6.03
28)	T	Methyl tert-Bu...			0.642	0.704	0.674	0.591	0.614	0.645	7.02
29)	T	Chloroform			1.955	1.898	1.928	1.785	1.770	1.867	4.52
30)	T	Cyclohexane			1.135	1.194	1.130	1.024	1.024	1.101	6.80
31)	T	cis-1,2-Dichlo...			1.399	1.351	1.322	1.240	1.217	1.306	5.83
32)	T	1,1,1-Trichlor...	2.116	2.046	1.970	2.018	2.033	1.884	1.865	1.990	4.52
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.744	0.751	0.736	0.644	0.655	0.706	7.38
35)	T	Carbon Tetrach...	0.832	0.765	0.779	0.771	0.737	0.708	0.721	0.759	5.51
36)	T	Benzene			0.996	1.001	0.986	0.905	0.900	0.958	5.28
37)	T	1,2-Dichloroet...			0.572	0.580	0.565	0.531	0.553	0.560	3.39
38)	T	Trichloroethene	0.293	0.475	0.390	0.388	0.371	0.353	0.353	0.375	14.65
39)	T	1,2-Dichloropr...			0.372	0.364	0.350	0.335	0.332	0.351	4.97

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL111825AIR.M

40)	T	1,4-Dioxane		0.180	0.166	0.155	0.142	0.144	0.158	10.04
41)	T	Tetrahydrofuran		0.418	0.401	0.402	0.367	0.360	0.390	6.32
42)	T	Bromodichlorom...		0.782	0.795	0.783	0.745	0.758	0.773	2.63
43)		Methyl Methacr...		0.576	0.532	0.511	0.462	0.462	0.508	9.55
44)	T	2,2,4-Trimethy...		1.746	1.765	1.621	1.555	1.537	1.645	6.47
45)	T	t-1,3-Dichloro...		0.495	0.472	0.489	0.455	0.458	0.474	3.79
46)	T	cis-1,3-Dichlo...		0.599	0.557	0.562	0.534	0.529	0.556	5.00
47)	T	1,1,2-Trichlor...		0.424	0.372	0.378	0.344	0.342	0.372	8.91
48)	T	Dibromochlorom...		0.629	0.666	0.663	0.618	0.621	0.640	3.63
49)	T	Bromoform		0.583	0.569	0.581	0.555	0.545	0.566	2.86
50)	T	4-Methyl-2-Pen...		1.025	1.061	1.027	0.946	0.914	0.994	6.19
51)	T	2-Hexanone		0.782	0.805	0.816	0.734	0.724	0.772	5.37
52)	T	Tetrachloroethene	0.363	0.424	0.344	0.362	0.349	0.329	0.323	0.356	9.37
53)	T	Toluene		1.198	1.182	1.146	1.075	1.069	1.134	5.26
54)	T	1,2-Dibromoethane	0.528	0.587	0.569	0.549	0.525	0.526	0.547	4.79
55)	I	Chlorobenzene-d5	----------ISTD----------							
56)		1,1,1,2-Tetrac...		0.791	0.769	0.761	0.677	0.677	0.735	7.34
57)	T	Chlorobenzene		1.035	1.088	1.089	0.969	0.953	1.027	6.24
58)	T	Ethyl Benzene		1.927	2.038	2.008	1.821	1.830	1.925	5.16
59)	T	m/p-Xylene		1.618	1.611	1.607	1.434	1.446	1.543	6.12
60)	T	o-Xylene		1.584	1.625	1.659	1.419	1.421	1.542	7.42
61)	T	Styrene		0.669	0.690	0.719	0.648	0.647	0.675	4.54
62)		Isopropylbenzene		2.807	2.946	2.945	2.556	2.536	2.758	7.31
63)	T	1,1,2,2-Tetrac...	0.999	1.034	1.016	1.012	1.028	0.891	0.884	0.981	6.58
64)		n-propylbenzene		0.722	0.758	0.757	0.657	0.649	0.709	7.47
65)		tert-Butylbenzene		2.583	2.687	2.646	2.224	2.176	2.463	9.90
66)	T	Benzyl Chloride		0.275	0.251	0.257	0.241	0.225	0.250	7.36
67)		sec-Butylbenzene		3.588	3.728	3.697	3.108	3.070	3.438	9.40
68)	S	1-Bromo-4-Fluo...	0.712	0.725	0.729	0.733	0.741	0.735	0.757	0.733	1.90
69)		p-Isopropyltol...		2.994	3.070	3.197	2.660	2.641	2.912	8.58
70)		n-Butylbenzene		2.676	3.041	3.125	2.639	2.647	2.825	8.39
71)		2-Chlorotoluene		2.198	2.257	2.210	1.960	1.975	2.120	6.65
72)	T	4-Ethyltoluene		1.934	1.948	2.009	1.749	1.747	1.877	6.46
73)	T	1,3,5-Trimethy...		1.623	1.682	1.662	1.456	1.454	1.575	7.09
74)	T	1,2,4-Trimethy...		1.796	1.844	1.871	1.548	1.537	1.719	9.51
75)	T	1,3-Dichlorobe...		1.043	1.053	1.061	0.937	0.922	1.003	6.78
76)	T	1,4-Dichlorobe...		1.056	1.033	1.060	0.940	0.930	1.003	6.34
77)	T	1,2-Dichlorobe...		0.974	1.064	1.050	0.872	0.863	0.965	9.83
78)	T	Hexachloro-1,3...		0.854	0.899	0.920	0.686	0.666	0.805	14.94
79)	T	Naphthalene	1.230	1.483	1.599	1.860	1.496	1.493	1.527	13.35
80)	T	Naphthalene,2-...		0.397	0.323	0.448	0.397	0.439	0.401	12.30
81)	T	1,2,4-Trichlor...		0.549	0.692	0.813	0.678	0.682	0.683	13.72

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043203.D
Acq On : 18 Nov 2025 09:29
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:48:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	110490	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	296493	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	247761	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	180529	9.941	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	7723	0.496	ppbv		99
3) Chlorodifluoromethane	1.473	51	8538	0.557	ppbv	#	82
4) Chloromethane	1.531	50	2881	0.494	ppbv		94
5) Vinyl Chloride	1.580	62	2947	0.462	ppbv	#	87
6) Bromomethane	1.667	94	1656	0.536	ppbv		97
7) Chloroethane	1.703	64	1357	0.547	ppbv		100
8) Dichlorotetrafluoroethane	1.554	85	6386	0.493	ppbv		100
9) Propene	1.483	41	3739	0.526	ppbv	#	1
10) Heptane	4.972	43	11637m	0.597	ppbv		
11) Trichlorofluoromethane	1.878	101	6841	0.453	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.140	101	5863	0.497	ppbv		99
13) Ethanol	1.719	45	1190	0.520	ppbv		64
14) Bromoethene	1.781	108	2476	0.548	ppbv	#	75
15) Acetone	1.836	43	9506	0.619	ppbv	#	88
16) 1,3-Butadiene	1.606	39	4115	0.601	ppbv		95
17) tert-Butyl alcohol	2.043	59	9854	0.489	ppbv	#	68
18) 1,1-Dichloroethene	2.033	96	3068	0.559	ppbv		96
19) Isopropyl Alcohol	1.887	45	4687	0.540	ppbv	#	51
20) Methylene Chloride	2.059	84	5006	0.349	ppbv		92
21) Allyl Chloride	2.095	41	6291	0.609	ppbv		95
22) trans-1,2-Dichloroethene	2.337	96	3343	0.533	ppbv		80
23) Vinyl Acetate	2.464	43	10414	0.562	ppbv	#	92
24) 1,1-Dichloroethane	2.409	63	5803	0.479	ppbv	#	96
25) Ethyl Acetate	2.839	43	18625m	0.562	ppbv		
26) Hexane	2.823	57	7589	0.523	ppbv	#	91
27) Carbon Disulfide	2.150	76	7198	0.486	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	3545	0.498	ppbv	#	15
29) Chloroform	2.849	83	10800	0.523	ppbv		95
30) Cyclohexane	3.849	84	6271	0.515	ppbv		85
31) cis-1,2-Dichloroethene	2.719	61	7728	0.536	ppbv		87
32) 1,1,1-Trichloroethane	3.363	97	10886	0.490	ppbv		98
34) 2-Butanone	2.557	43	11026	0.527	ppbv		95
35) Carbon Tetrachloride	3.761	117	11551	0.513	ppbv		94
36) Benzene	3.655	78	14759	0.520	ppbv	#	91
37) 1,2-Dichloroethane	3.218	62	8477	0.510	ppbv	#	93
38) Trichloroethene	4.542	130	5775	0.519	ppbv	#	87
39) 1,2-Dichloropropane	4.312	63	5510	0.530	ppbv	#	80
40) 1,4-Dioxane	4.597	88	2675m	0.573	ppbv		
41) Tetrahydrofuran	3.059	42	6193	0.536	ppbv		95
42) Bromodichloromethane	4.490	83	11597	0.506	ppbv	#	84
43) Methyl Methacrylate	4.881	69	8534m	0.566	ppbv		
44) 2,2,4-Trimethylpentane	4.642	57	25890	0.531	ppbv		95
45) t-1,3-Dichloropropene	6.412	75	7343	0.523	ppbv		94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043203.D
Acq On : 18 Nov 2025 09:29
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:48:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.593	75	8886m	0.539	ppbv		
47)	1,1,2-Trichloroethane	6.581	97	6280m	0.567	ppbv		
48)	Dibromochloromethane	7.380	129	9327	0.492	ppbv		97
49)	Bromoform	9.481	173	8636	0.514	ppbv		100
50)	4-Methyl-2-Pentanone	5.755	43	15190	0.515	ppbv		92
51)	2-Hexanone	7.442	43	11594	0.506	ppbv	#	93
52)	Tetrachloroethene	8.218	164	5097	0.483	ppbv	#	82
53)	Toluene	6.924	91	17755m	0.525	ppbv		
54)	1,2-Dibromoethane	7.649	107	8708	0.537	ppbv		90
56)	1,1,1,2-Tetrachloroethane	8.917	131	9793m	0.538	ppbv		
57)	Chlorobenzene	8.917	112	12818	0.504	ppbv		98
58)	Ethyl Benzene	9.351	91	23866	0.500	ppbv		96
59)	m/p-Xylene	9.526	91	40076m	1.044	ppbv		
60)	o-Xylene	9.956	91	19621	0.514	ppbv		100
61)	Styrene	9.869	104	8287	0.496	ppbv		96
62)	Isopropylbenzene	10.536	105	34773	0.509	ppbv		98
63)	1,1,2,2-Tetrachloroethane	9.960	83	12591	0.519	ppbv		100
64)	n-propylbenzene	10.986	120	8945	0.509	ppbv		100
65)	tert-Butylbenzene	11.526	119	31998	0.524	ppbv		99
66)	Benzyl Chloride	11.610	91	3403	0.550	ppbv		98
67)	sec-Butylbenzene	11.766	105	44448	0.522	ppbv		97
69)	p-Isopropyltoluene	11.921	119	37087	0.514	ppbv		100
70)	n-Butylbenzene	12.277	91	33153	0.474	ppbv		94
71)	2-Chlorotoluene	10.895	91	27224	0.518	ppbv		99
72)	4-Ethyltoluene	11.122	105	23963	0.515	ppbv		97
73)	1,3,5-Trimethylbenzene	11.199	105	20104	0.515	ppbv		99
74)	1,2,4-Trimethylbenzene	11.533	105	22254	0.522	ppbv		91
75)	1,3-Dichlorobenzene	11.604	146	12926	0.520	ppbv		98
76)	1,4-Dichlorobenzene	11.672	146	13076	0.526	ppbv		98
77)	1,2-Dichlorobenzene	11.947	146	12069	0.505	ppbv		97
78)	Hexachloro-1,3-Butadiene	13.879	225	10578	0.530	ppbv		98
79)	Naphthalene	13.513	128	18377	0.486	ppbv		97
80)	Naphthalene,2-methyl-	14.462	142	4917	0.495	ppbv		91
81)	1,2,4-Trichlorobenzene	13.439	180	6798	0.402	ppbv		97

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

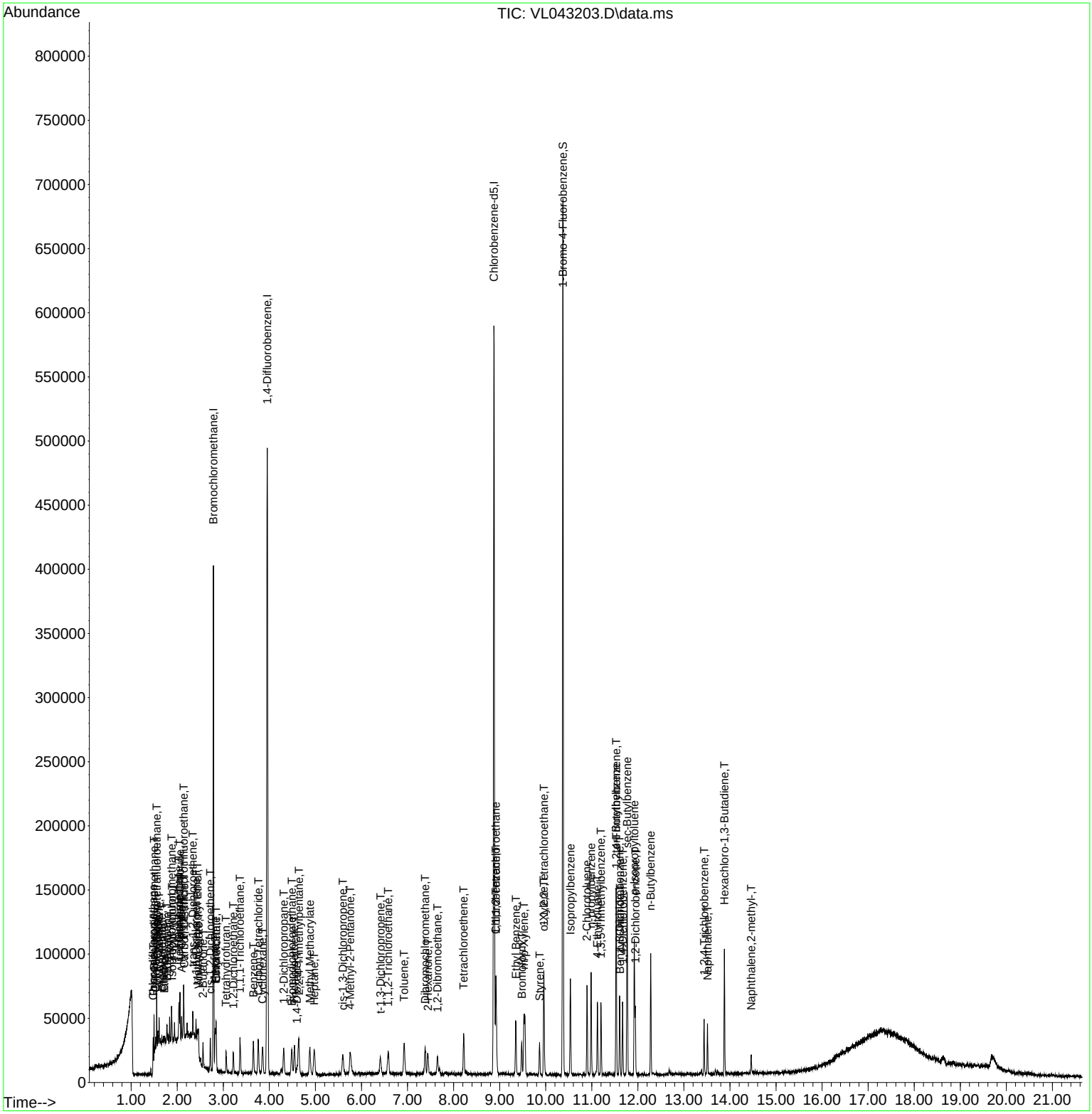
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043203.D
Acq On : 18 Nov 2025 09:29
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:48:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043204.D
Acq On : 18 Nov 2025 10:02
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	105095	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	283830	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	234772	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	172524	10.025	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	140789	9.498	ppbv		100
3) Chlorodifluoromethane	1.473	51	138443	9.497	ppbv		100
4) Chloromethane	1.531	50	52372	9.450	ppbv		100
5) Vinyl Chloride	1.577	62	51045	8.422	ppbv		100
6) Bromomethane	1.664	94	26542	9.034	ppbv		100
7) Chloroethane	1.700	64	20375	8.632	ppbv		100
8) Dichlorotetrafluoroethane	1.551	85	114670	9.300	ppbv		100
9) Propene	1.480	41	52671	7.789	ppbv	#	1
10) Heptane	4.965	43	168611	9.090	ppbv		100
11) Trichlorofluoromethane	1.875	101	130362	9.077	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.137	101	103679	9.247	ppbv		100
13) Ethanol	1.716	45	17464	8.023	ppbv		100
14) Bromoethene	1.777	108	38037	8.849	ppbv		100
15) Acetone	1.832	43	108422	7.426	ppbv		100
16) 1,3-Butadiene	1.606	39	57871	8.890	ppbv		100
17) tert-Butyl alcohol	2.036	59	179201	9.350	ppbv		100
18) 1,1-Dichloroethene	2.030	96	46313	8.871	ppbv		100
19) Isopropyl Alcohol	1.881	45	71862	8.710	ppbv		100
20) Methylene Chloride	2.056	84	41868	9.708	ppbv		100
21) Allyl Chloride	2.091	41	89266	9.087	ppbv		100
22) trans-1,2-Dichloroethene	2.334	96	52470	8.793	ppbv		100
23) Vinyl Acetate	2.457	43	170459	9.670	ppbv		100
24) 1,1-Dichloroethane	2.405	63	106970	9.287	ppbv		100
25) Ethyl Acetate	2.829	43	289921	9.190	ppbv		100
26) Hexane	2.820	57	129809	9.402	ppbv		100
27) Carbon Disulfide	2.146	76	132086	9.371	ppbv		100
28) Methyl tert-Butyl Ether	2.434	73	62115	9.165	ppbv		100
29) Chloroform	2.842	83	187620	9.561	ppbv		100
30) Cyclohexane	3.846	84	107621	9.297	ppbv		100
31) cis-1,2-Dichloroethene	2.716	61	130357	9.499	ppbv		100
32) 1,1,1-Trichloroethane	3.360	97	198036	9.381	ppbv		100
34) 2-Butanone	2.551	43	182749	9.121	ppbv		100
35) Carbon Tetrachloride	3.755	117	200831	9.322	ppbv		100
36) Benzene	3.648	78	256954	9.453	ppbv		100
37) 1,2-Dichloroethane	3.211	62	150769	9.483	ppbv		100
38) Trichloroethene	4.535	130	100136	9.398	ppbv		100
39) 1,2-Dichloropropane	4.302	63	95097	9.559	ppbv		100
40) 1,4-Dioxane	4.567	88	40441	9.043	ppbv	#	100
41) Tetrahydrofuran	3.046	42	104294	9.426	ppbv		100
42) Bromodichloromethane	4.477	83	211504	9.643	ppbv		100
43) Methyl Methacrylate	4.865	69	131003	9.080	ppbv		100
44) 2,2,4-Trimethylpentane	4.626	57	441234	9.451	ppbv		100
45) t-1,3-Dichloropropene	6.399	75	129122	9.601	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043204.D
Acq On : 18 Nov 2025 10:02
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.584	75	151655	9.603	ppbv	100
47) 1,1,2-Trichloroethane	6.564	97	97512	9.193	ppbv	100
48) Dibromochloromethane	7.377	129	175529	9.670	ppbv	100
49) Bromoform	9.474	173	157563	9.800	ppbv	100
50) 4-Methyl-2-Pentanone	5.733	43	268369	9.509	ppbv	100
51) 2-Hexanone	7.419	43	208268	9.503	ppbv #	100
52) Tetrachloroethene	8.212	164	93518	9.249	ppbv	100
53) Toluene	6.920	91	305169	9.422	ppbv	100
54) 1,2-Dibromoethane	7.639	107	148973	9.588	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.914	131	158856	9.207	ppbv	100
57) Chlorobenzene	8.911	112	227490	9.438	ppbv	100
58) Ethyl Benzene	9.345	91	427530	9.461	ppbv	100
59) m/p-Xylene	9.542	91	673371m	18.519	ppbv	
60) o-Xylene	9.956	91	333044	9.202	ppbv	100
61) Styrene	9.863	104	152172	9.607	ppbv	100
62) Isopropylbenzene	10.533	105	600155	9.269	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	209272	9.109	ppbv	100
64) n-propylbenzene	10.982	120	154239	9.271	ppbv	100
65) tert-Butylbenzene	11.523	119	522106	9.029	ppbv	100
66) Benzyl Chloride	11.607	91	56620	9.649	ppbv	100
67) sec-Butylbenzene	11.762	105	729573	9.039	ppbv	100
69) p-Isopropyltoluene	11.918	119	624586	9.135	ppbv	100
70) n-Butylbenzene	12.274	91	619610	9.341	ppbv	100
71) 2-Chlorotoluene	10.895	91	460118	9.245	ppbv	100
72) 4-Ethyltoluene	11.118	105	410587	9.316	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	341900	9.244	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	363476	9.005	ppbv	100
75) 1,3-Dichlorobenzene	11.601	146	219894	9.335	ppbv	100
76) 1,4-Dichlorobenzene	11.665	146	220576	9.363	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	204826	9.044	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	161034	8.520	ppbv	100
79) Naphthalene	13.507	128	351148	9.795	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	93113	9.895	ppbv	100
81) 1,2,4-Trichlorobenzene	13.436	180	159091	9.923	ppbv	100

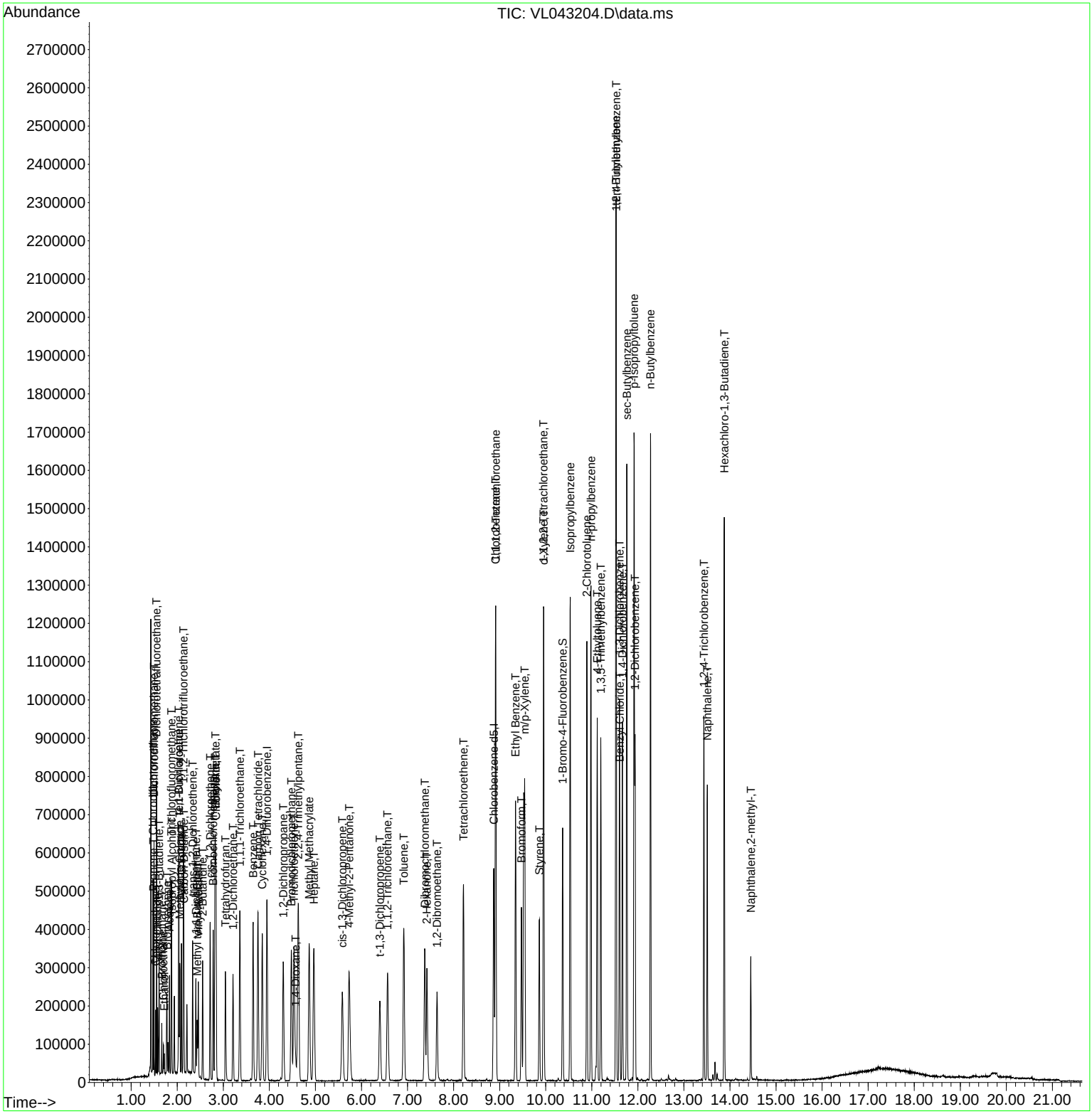
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043204.D
Acq On : 18 Nov 2025 10:02
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043205.D
Acq On : 18 Nov 2025 10:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:50:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	104644	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	284629	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	230646	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	171009	10.115	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	30881	2.092	ppbv		98
3) Chlorodifluoromethane	1.476	51	30069	2.072	ppbv		98
4) Chloromethane	1.534	50	11890	2.155	ppbv		96
5) Vinyl Chloride	1.580	62	12040	1.995	ppbv		96
6) Bromomethane	1.670	94	5981	2.044	ppbv		99
7) Chloroethane	1.706	64	4943	2.103	ppbv		95
8) Dichlorotetrafluoroethane	1.554	85	26409	2.151	ppbv		98
9) Propene	1.486	41	12993	1.930	ppbv	#	1
10) Heptane	4.972	43	36171m	1.958	ppbv		
11) Trichlorofluoromethane	1.878	101	31124	2.177	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.140	101	23336	2.090	ppbv		100
13) Ethanol	1.722	45	5266	2.430	ppbv		86
14) Bromoethene	1.784	108	9129	2.133	ppbv		95
15) Acetone	1.835	43	31785	2.186	ppbv		91
16) 1,3-Butadiene	1.609	39	13101	2.021	ppbv		89
17) tert-Butyl alcohol	2.039	59	39348	2.062	ppbv		95
18) 1,1-Dichloroethene	2.036	96	10780	2.074	ppbv		94
19) Isopropyl Alcohol	1.887	45	17229	2.097	ppbv	#	71
20) Methylene Chloride	2.062	84	12238	2.248	ppbv		96
21) Allyl Chloride	2.098	41	19580	2.002	ppbv		95
22) trans-1,2-Dichloroethene	2.340	96	12537	2.110	ppbv		94
23) Vinyl Acetate	2.460	43	35205	2.006	ppbv	#	97
24) 1,1-Dichloroethane	2.408	63	24987	2.179	ppbv		99
25) Ethyl Acetate	2.832	43	64343	2.048	ppbv		99
26) Hexane	2.826	57	28776	2.093	ppbv		97
27) Carbon Disulfide	2.149	76	29964	2.135	ppbv	#	91
28) Methyl tert-Butyl Ether	2.438	73	14101	2.090	ppbv	#	85
29) Chloroform	2.849	83	40355	2.065	ppbv		98
30) Cyclohexane	3.855	84	23659	2.053	ppbv		98
31) cis-1,2-Dichloroethene	2.722	61	27663	2.024	ppbv		98
32) 1,1,1-Trichloroethane	3.366	97	42547	2.024	ppbv		99
34) 2-Butanone	2.557	43	41884	2.085	ppbv		99
35) Carbon Tetrachloride	3.765	117	41949	1.942	ppbv		96
36) Benzene	3.654	78	56141m	2.060	ppbv		
37) 1,2-Dichloroethane	3.218	62	32188	2.019	ppbv		100
38) Trichloroethene	4.548	130	21105m	1.975	ppbv		
39) 1,2-Dichloropropane	4.312	63	19913	1.996	ppbv		93
40) 1,4-Dioxane	4.580	88	8829m	1.969	ppbv		
41) Tetrahydrofuran	3.056	42	22912	2.065	ppbv		99
42) Bromodichloromethane	4.490	83	44584	2.027	ppbv		98
43) Methyl Methacrylate	4.875	69	29071	2.009	ppbv		99
44) 2,2,4-Trimethylpentane	4.635	57	92261	1.971	ppbv		96
45) t-1,3-Dichloropropene	6.406	75	27833m	2.064	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043205.D
Acq On : 18 Nov 2025 10:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:50:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	31986	2.020	ppbv		91
47) 1,1,2-Trichloroethane	6.577	97	21542m	2.025	ppbv		
48) Dibromochloromethane	7.386	129	37758m	2.074	ppbv		
49) Bromoform	9.480	173	33057	2.050	ppbv		98
50) 4-Methyl-2-Pentanone	5.745	43	58461	2.066	ppbv		98
51) 2-Hexanone	7.432	43	46444	2.113	ppbv	#	99
52) Tetrachloroethene	8.218	164	19856	1.958	ppbv		96
53) Toluene	6.927	91	65238	2.008	ppbv		97
54) 1,2-Dibromoethane	7.648	107	31266	2.007	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.920	131	35099	2.071	ppbv		99
57) Chlorobenzene	8.917	112	50228	2.121	ppbv		97
58) Ethyl Benzene	9.351	91	92649	2.087	ppbv		98
59) m/p-Xylene	9.529	91	148300m	4.151	ppbv		
60) o-Xylene	9.959	91	76540	2.153	ppbv		100
61) Styrene	9.866	104	33188	2.133	ppbv		98
62) Isopropylbenzene	10.536	105	135853	2.136	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.963	83	47439	2.102	ppbv		99
64) n-propylbenzene	10.985	120	34915	2.136	ppbv		99
65) tert-Butylbenzene	11.529	119	122064	2.149	ppbv		99
66) Benzyl Chloride	11.610	91	11870	2.059	ppbv		99
67) sec-Butylbenzene	11.765	105	170529	2.151	ppbv		100
69) p-Isopropyltoluene	11.921	119	147482	2.195	ppbv		98
70) n-Butylbenzene	12.280	91	144148	2.212	ppbv		99
71) 2-Chlorotoluene	10.898	91	101951	2.085	ppbv		100
72) 4-Ethyltoluene	11.121	105	92654	2.140	ppbv		99
73) 1,3,5-Trimethylbenzene	11.202	105	76655	2.110	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	86286	2.176	ppbv		98
75) 1,3-Dichlorobenzene	11.604	146	48961	2.116	ppbv		98
76) 1,4-Dichlorobenzene	11.668	146	48881	2.112	ppbv		98
77) 1,2-Dichlorobenzene	11.944	146	48431	2.177	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	42456	2.287	ppbv		99
79) Naphthalene	13.510	128	85788	2.436	ppbv		97
80) Naphthalene,2-methyl-	14.458	142	20685	2.237	ppbv		98
81) 1,2,4-Trichlorobenzene	13.439	180	37521	2.382	ppbv		99

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

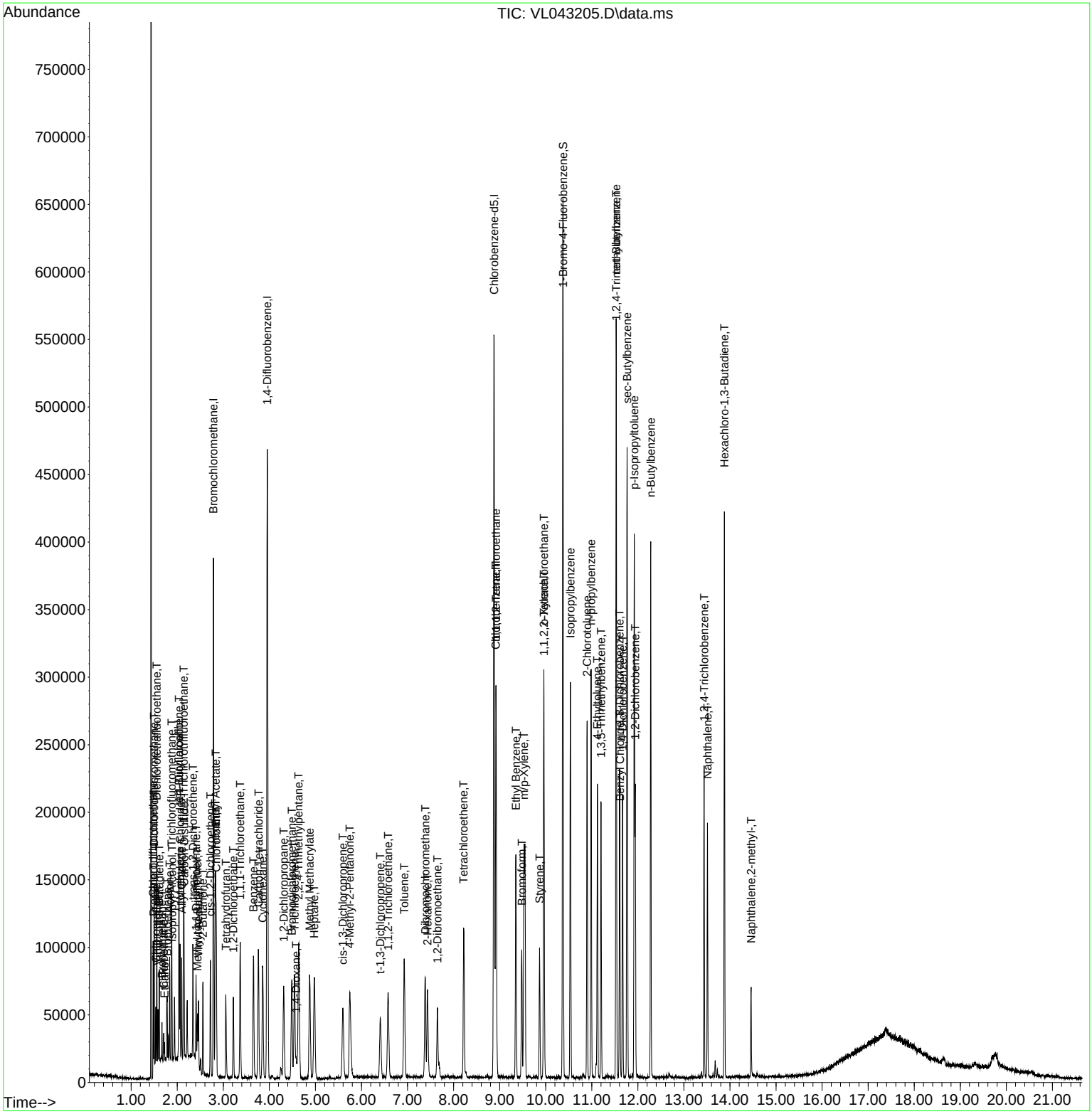
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043205.D
Acq On : 18 Nov 2025 10:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:50:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043206.D
Acq On : 18 Nov 2025 11:10
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	102795	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	278732	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	227998	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	167061	9.996	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	15474	1.067	ppbv		100
3) Chlorodifluoromethane	1.476	51	14437	1.013	ppbv	#	92
4) Chloromethane	1.531	50	5751	1.061	ppbv		92
5) Vinyl Chloride	1.580	62	5967	1.007	ppbv		95
6) Bromomethane	1.667	94	3104	1.080	ppbv		94
7) Chloroethane	1.706	64	2550	1.104	ppbv		97
8) Dichlorotetrafluoroethane	1.554	85	12759	1.058	ppbv		98
9) Propene	1.483	41	6147	0.929	ppbv	#	1
10) Heptane	4.972	43	18544	1.022	ppbv		100
11) Trichlorofluoromethane	1.877	101	15571	1.108	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.140	101	11743	1.071	ppbv		99
13) Ethanol	1.719	45	2373	1.115	ppbv		67
14) Bromoethene	1.780	108	4345	1.033	ppbv	#	91
15) Acetone	1.835	43	16353	1.145	ppbv		90
16) 1,3-Butadiene	1.609	39	6469	1.016	ppbv		96
17) tert-Butyl alcohol	2.039	59	20703	1.104	ppbv	#	92
18) 1,1-Dichloroethene	2.033	96	5447	1.067	ppbv		97
19) Isopropyl Alcohol	1.884	45	8849	1.097	ppbv	#	43
20) Methylene Chloride	2.059	84	7297	1.030	ppbv		85
21) Allyl Chloride	2.094	41	9198	0.957	ppbv	#	84
22) trans-1,2-Dichloroethene	2.340	96	6313	1.082	ppbv		94
23) Vinyl Acetate	2.460	43	16779	0.973	ppbv		98
24) 1,1-Dichloroethane	2.405	63	12062	1.071	ppbv		94
25) Ethyl Acetate	2.832	43	32108	1.041	ppbv		98
26) Hexane	2.819	57	14639	1.084	ppbv		99
27) Carbon Disulfide	2.149	76	14637	1.062	ppbv	#	30
28) Methyl tert-Butyl Ether	2.441	73	7236	1.092	ppbv	#	83
29) Chloroform	2.845	83	19509	1.016	ppbv		91
30) Cyclohexane	3.852	84	12269	1.084	ppbv		96
31) cis-1,2-Dichloroethene	2.716	61	13889	1.035	ppbv		97
32) 1,1,1-Trichloroethane	3.363	97	20745	1.005	ppbv		99
34) 2-Butanone	2.554	43	20940	1.064	ppbv		96
35) Carbon Tetrachloride	3.758	117	21497	1.016	ppbv		96
36) Benzene	3.648	78	27911	1.046	ppbv		99
37) 1,2-Dichloroethane	3.214	62	16159	1.035	ppbv		99
38) Trichloroethene	4.538	130	10809m	1.033	ppbv		
39) 1,2-Dichloropropane	4.311	63	10147	1.039	ppbv		91
40) 1,4-Dioxane	4.577	88	4616m	1.051	ppbv		
41) Tetrahydrofuran	3.052	42	11176	1.029	ppbv		96
42) Bromodichloromethane	4.480	83	22150	1.028	ppbv	#	98
43) Methyl Methacrylate	4.871	69	14821	1.046	ppbv		94
44) 2,2,4-Trimethylpentane	4.632	57	49203m	1.073	ppbv		
45) t-1,3-Dichloropropene	6.402	75	13149m	0.996	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043206.D
Acq On : 18 Nov 2025 11:10
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	15527	1.001	ppbv	#	95
47) 1,1,2-Trichloroethane	6.577	97	10369	0.995	ppbv	#	85
48) Dibromochloromethane	7.377	129	18560	1.041	ppbv		93
49) Bromoform	9.477	173	15858	1.004	ppbv		98
50) 4-Methyl-2-Pentanone	5.745	43	29560	1.067	ppbv		99
51) 2-Hexanone	7.428	43	22438	1.043	ppbv	#	98
52) Tetrachloroethene	8.215	164	10080	1.015	ppbv		90
53) Toluene	6.923	91	32951	1.036	ppbv		100
54) 1,2-Dibromoethane	7.645	107	15865	1.040	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.917	131	17535	1.046	ppbv		99
57) Chlorobenzene	8.914	112	24806	1.060	ppbv		98
58) Ethyl Benzene	9.344	91	46455	1.059	ppbv		96
59) m/p-Xylene	9.545	91	73461m	2.080	ppbv		
60) o-Xylene	9.956	91	37054	1.054	ppbv		97
61) Styrene	9.866	104	15730	1.023	ppbv		95
62) Isopropylbenzene	10.532	105	67163	1.068	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	23083	1.035	ppbv		97
64) n-propylbenzene	10.985	120	17289	1.070	ppbv		100
65) tert-Butylbenzene	11.526	119	61258	1.091	ppbv		99
66) Benzyl Chloride	11.610	91	5729	1.005	ppbv		96
67) sec-Butylbenzene	11.762	105	84989	1.084	ppbv		99
69) p-Isopropyltoluene	11.921	119	69993	1.054	ppbv		99
70) n-Butylbenzene	12.277	91	69323	1.076	ppbv		99
71) 2-Chlorotoluene	10.895	91	51452	1.065	ppbv		100
72) 4-Ethyltoluene	11.118	105	44403	1.037	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	38350	1.068	ppbv		91
74) 1,2,4-Trimethylbenzene	11.532	105	42051	1.073	ppbv	#	81
75) 1,3-Dichlorobenzene	11.600	146	24011	1.050	ppbv		98
76) 1,4-Dichlorobenzene	11.665	146	23543	1.029	ppbv		97
77) 1,2-Dichlorobenzene	11.940	146	24248	1.103	ppbv		98
78) Hexachloro-1,3-Butadiene	13.879	225	20489	1.116	ppbv		99
79) Naphthalene	13.507	128	36462	1.047	ppbv		95
80) Naphthalene,2-methyl-	14.455	142	7375	0.807	ppbv		95
81) 1,2,4-Trichlorobenzene	13.436	180	15785	1.014	ppbv		98

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

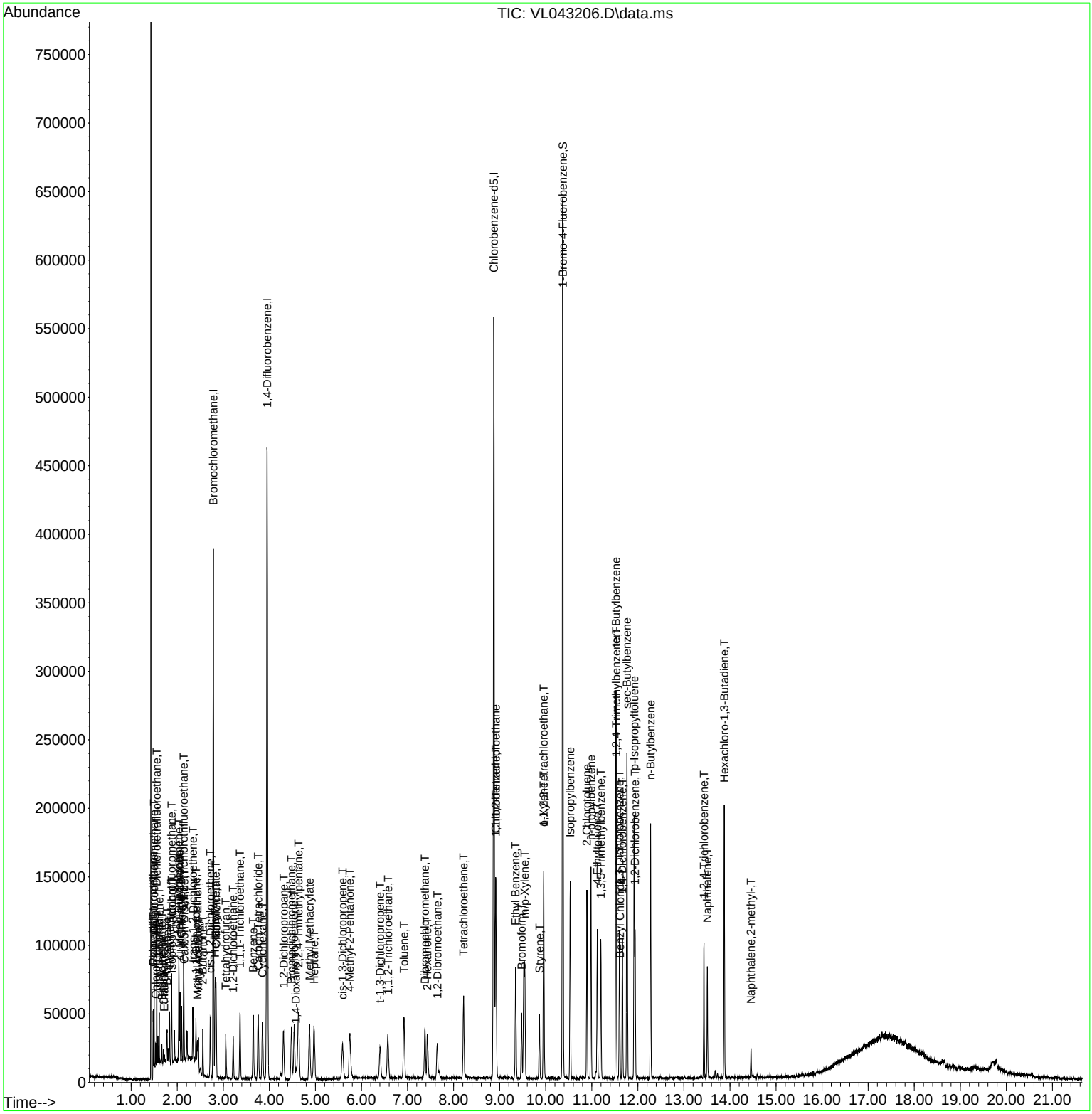
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043206.D
Acq On : 18 Nov 2025 11:10
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043208.D
Acq On : 18 Nov 2025 12:16
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:51:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	101366	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	273996	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	222034	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	160968	9.890	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.900%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	664	0.114	ppbv	97
32) 1,1,1-Trichloroethane	3.360	97	2074m	0.102	ppbv	
35) Carbon Tetrachloride	3.761	117	2097m	0.101	ppbv	
38) Trichloroethene	4.541	130	1302m	0.127	ppbv	
52) Tetrachloroethene	8.218	164	1161m	0.119	ppbv	
54) 1,2-Dibromoethane	7.648	107	1446m	0.096	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.953	83	2296m	0.106	ppbv	
79) Naphthalene	13.510	128	2732m	0.081	ppbv	

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

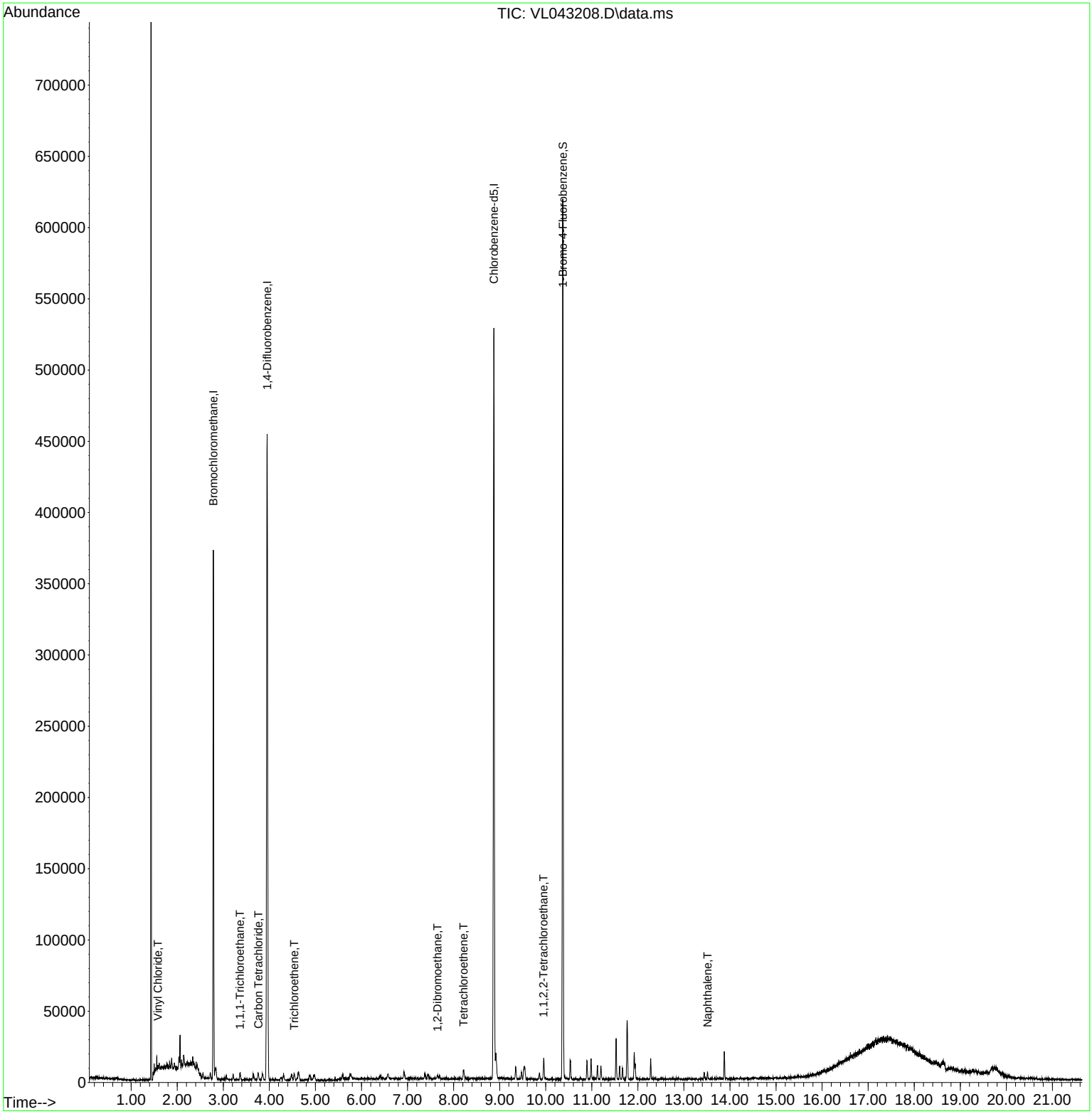
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043208.D
Acq On : 18 Nov 2025 12:16
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:51:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043209.D
Acq On : 18 Nov 2025 12:49
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:52:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	98952	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	266012	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	213547	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	152015	9.712	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.100%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	215m	0.038	ppbv	
32) 1,1,1-Trichloroethane	3.357	97	628m	0.032	ppbv	
35) Carbon Tetrachloride	3.758	117	664m	0.033	ppbv	
38) Trichloroethene	4.542	130	234m	0.023	ppbv	
52) Tetrachloroethene	8.222	164	290m	0.031	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	640m	0.031	ppbv	

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

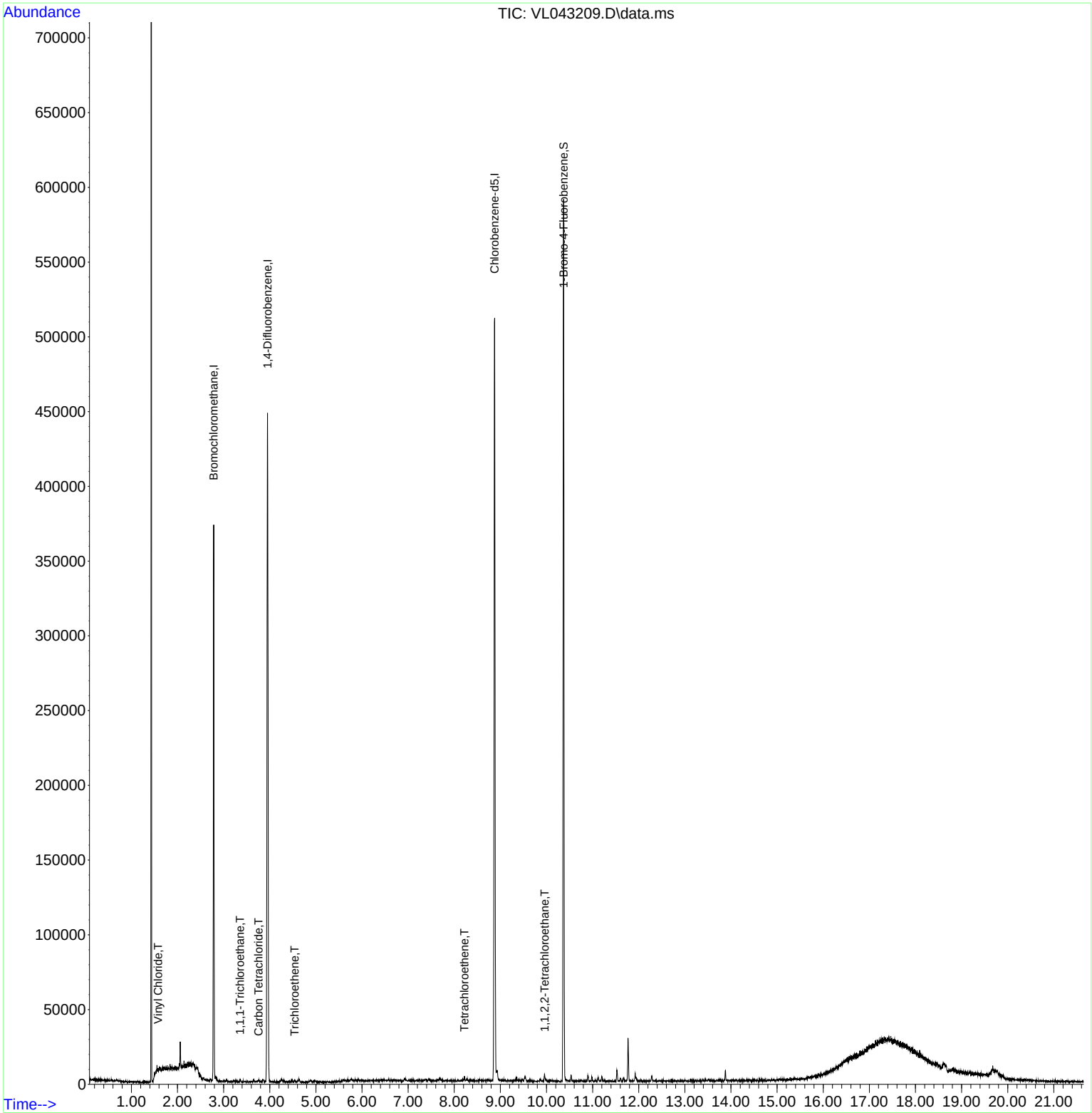
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043209.D
Acq On : 18 Nov 2025 12:49
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:52:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043210.D
Acq On : 18 Nov 2025 13:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	98968	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	258461	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	211247	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	159814	10.321	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	197987	14.184	ppbv	99
3) Chlorodifluoromethane	1.476	51	182813	13.317	ppbv	98
4) Chloromethane	1.531	50	72636	13.918	ppbv	97
5) Vinyl Chloride	1.580	62	71671	12.557	ppbv	96
6) Bromomethane	1.667	94	38265	13.830	ppbv	98
7) Chloroethane	1.703	64	29584	13.309	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	165709	14.271	ppbv	97
9) Propene	1.483	41	81393m	12.782	ppbv	
10) Heptane	4.972	43	225935	12.934	ppbv	100
11) Trichlorofluoromethane	1.874	101	200703	14.840	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	152772	14.469	ppbv	98
13) Ethanol	1.719	45	25468	12.425	ppbv	99
14) Bromoethene	1.781	108	55813	13.789	ppbv	96
15) Acetone	1.832	43	161036	11.712	ppbv	99
16) 1,3-Butadiene	1.609	39	81077	13.226	ppbv	99
17) tert-Butyl alcohol	2.036	59	257617	14.274	ppbv	99
18) 1,1-Dichloroethene	2.033	96	65731	13.370	ppbv	96
19) Isopropyl Alcohol	1.881	45	105271	13.549	ppbv	99
20) Methylene Chloride	2.059	84	59798	15.164	ppbv	93
21) Allyl Chloride	2.094	41	126959	13.724	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	77386	13.772	ppbv	94
23) Vinyl Acetate	2.457	43	232315	13.995	ppbv	99
24) 1,1-Dichloroethane	2.405	63	155017	14.292	ppbv	98
25) Ethyl Acetate	2.829	43	394074	13.265	ppbv	99
26) Hexane	2.823	57	172303	13.252	ppbv	97
27) Carbon Disulfide	2.150	76	191612	14.435	ppbv	97
28) Methyl tert-Butyl Ether	2.434	73	91132	14.279	ppbv	97
29) Chloroform	2.845	83	262803	14.221	ppbv	100
30) Cyclohexane	3.852	84	152015	13.946	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	180647	13.978	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	276915	13.930	ppbv	98
34) 2-Butanone	2.551	43	253855	13.914	ppbv	100
35) Carbon Tetrachloride	3.755	117	279560	14.250	ppbv	96
36) Benzene	3.651	78	348892	14.096	ppbv	99
37) 1,2-Dichloroethane	3.214	62	214248	14.798	ppbv	98
38) Trichloroethene	4.541	130	137027	14.123	ppbv	93
39) 1,2-Dichloropropane	4.302	63	128700	14.206	ppbv	98
40) 1,4-Dioxane	4.571	88	55905	13.728	ppbv #	95
41) Tetrahydrofuran	3.043	42	139722	13.868	ppbv	99
42) Bromodichloromethane	4.480	83	294008	14.721	ppbv	97
43) Methyl Methacrylate	4.872	69	179110	13.633	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	595778	14.014	ppbv	99
45) t-1,3-Dichloropropene	6.406	75	177678	14.508	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043210.D
Acq On : 18 Nov 2025 13:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.587	75	205226	14.270	ppbv		100
47)	1,1,2-Trichloroethane	6.571	97	132701	13.738	ppbv		92
48)	Dibromochloromethane	7.377	129	240736	14.564	ppbv		99
49)	Bromoform	9.477	173	211325	14.434	ppbv		99
50)	4-Methyl-2-Pentanone	5.732	43	354421	13.790	ppbv		99
51)	2-Hexanone	7.422	43	280742	14.067	ppbv	#	100
52)	Tetrachloroethene	8.218	164	125132	13.591	ppbv		93
53)	Toluene	6.924	91	414411	14.050	ppbv		99
54)	1,2-Dibromoethane	7.642	107	203913	14.413	ppbv		99
56)	1,1,1,2-Tetrachloroethane	8.917	131	214673	13.827	ppbv		99
57)	Chlorobenzene	8.914	112	301986	13.923	ppbv		98
58)	Ethyl Benzene	9.348	91	579890	14.262	ppbv		99
59)	m/p-Xylene	9.545	91	916113m	28.000	ppbv		
60)	o-Xylene	9.956	91	450260	13.826	ppbv		99
61)	Styrene	9.862	104	204972	14.382	ppbv		99
62)	Isopropylbenzene	10.532	105	803487	13.791	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.956	83	280254	13.557	ppbv		99
64)	n-propylbenzene	10.986	120	205637	13.737	ppbv		100
65)	tert-Butylbenzene	11.526	119	689352	13.249	ppbv		98
66)	Benzyl Chloride	11.610	91	71386	13.520	ppbv		100
67)	sec-Butylbenzene	11.762	105	972780	13.394	ppbv		100
69)	p-Isopropyltoluene	11.921	119	836888	13.602	ppbv		99
70)	n-Butylbenzene	12.277	91	838598	14.050	ppbv		99
71)	2-Chlorotoluene	10.895	91	625884	13.976	ppbv		100
72)	4-Ethyltoluene	11.121	105	553654	13.961	ppbv		99
73)	1,3,5-Trimethylbenzene	11.199	105	460783	13.846	ppbv		97
74)	1,2,4-Trimethylbenzene	11.533	105	486995	13.409	ppbv		97
75)	1,3-Dichlorobenzene	11.604	146	292143	13.784	ppbv		99
76)	1,4-Dichlorobenzene	11.668	146	294723	13.903	ppbv		99
77)	1,2-Dichlorobenzene	11.944	146	273467	13.420	ppbv		98
78)	Hexachloro-1,3-Butadiene	13.876	225	211153	12.416	ppbv		99
79)	Naphthalene	13.510	128	473229	14.670	ppbv		99
80)	Naphthalene,2-methyl-	14.452	142	139019	16.418	ppbv		99
81)	1,2,4-Trichlorobenzene	13.436	180	216260	14.990	ppbv		99

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

Quantitation Report (QT Reviewed)

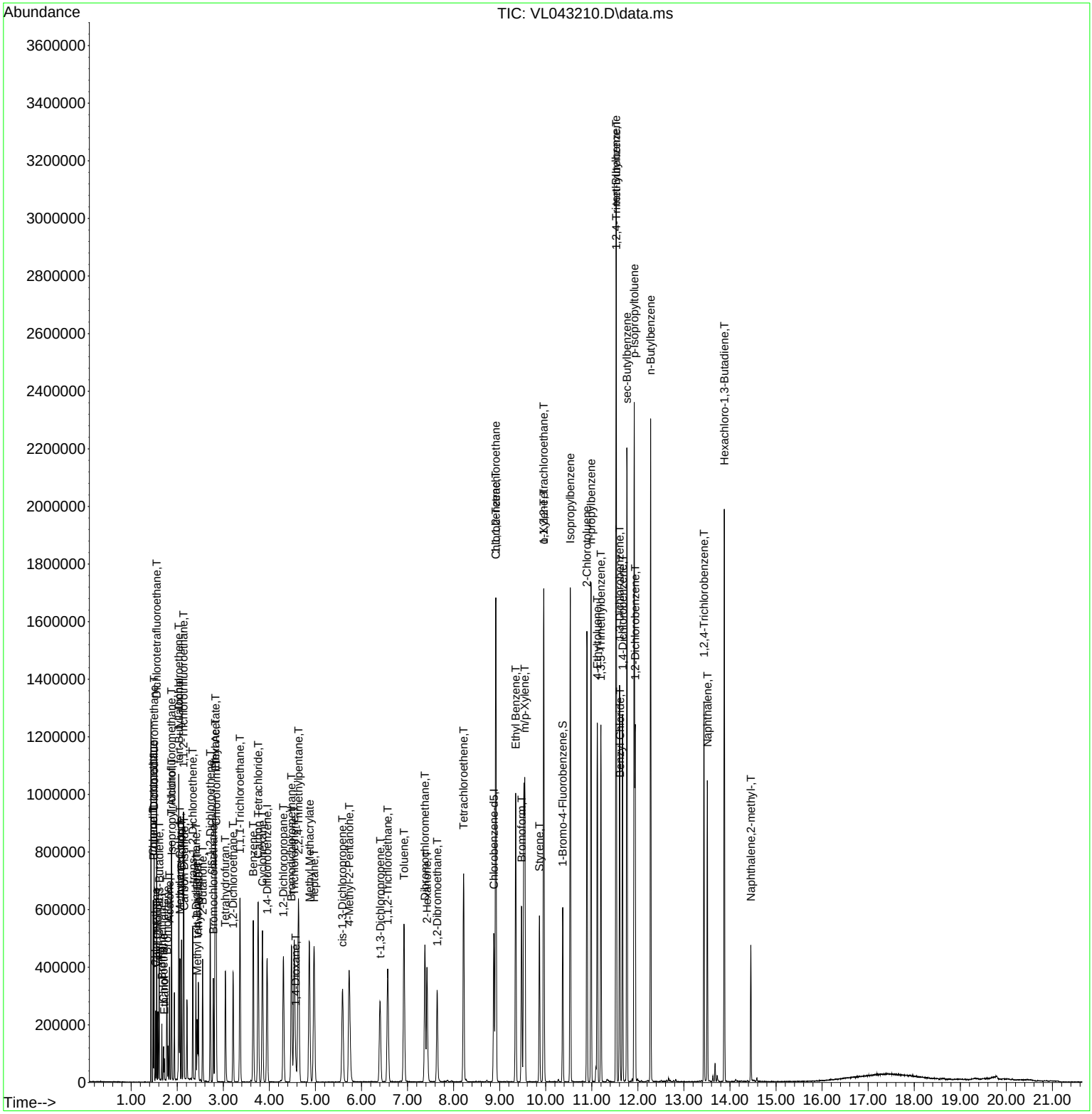
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043210.D
Acq On : 18 Nov 2025 13:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	97854	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	261914	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	216212	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	159242	10.048	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	133374	9.664	ppbv	98
3) Chlorodifluoromethane	1.476	51	124858	9.199	ppbv	98
4) Chloromethane	1.535	50	46906	9.090	ppbv	95
5) Vinyl Chloride	1.580	62	47932	8.493	ppbv	95
6) Bromomethane	1.667	94	22230	8.126	ppbv	99
7) Chloroethane	1.703	64	19854	9.033	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	110587	9.632	ppbv	97
9) Propene	1.483	41	54006m	9.370	ppbv	
10) Heptane	4.975	43	149202	8.698	ppbv	99
11) Trichlorofluoromethane	1.878	101	134746	10.077	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	100984	9.673	ppbv	99
13) Ethanol	1.719	45	15371	7.584	ppbv	92
14) Bromoethene	1.781	108	36979	9.240	ppbv	98
15) Acetone	1.832	43	104830	7.711	ppbv	99
16) 1,3-Butadiene	1.609	39	54795	9.041	ppbv	96
17) tert-Butyl alcohol	2.036	59	164987	9.245	ppbv	99
18) 1,1-Dichloroethene	2.033	96	43833	9.017	ppbv	99
19) Isopropyl Alcohol	1.884	45	64772	8.431	ppbv	97
20) Methylene Chloride	2.062	84	41254	10.323	ppbv	95
21) Allyl Chloride	2.095	41	75516	8.256	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	50228	9.041	ppbv	92
23) Vinyl Acetate	2.460	43	140156	8.539	ppbv	98
24) 1,1-Dichloroethane	2.409	63	103187	9.622	ppbv	97
25) Ethyl Acetate	2.829	43	258609	8.820	ppbv	99
26) Hexane	2.826	57	114312	8.892	ppbv	98
27) Carbon Disulfide	2.150	76	125048	9.528	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	64183	10.171	ppbv	98
29) Chloroform	2.846	83	173977	9.521	ppbv	99
30) Cyclohexane	3.852	84	98598	9.148	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	119843	9.379	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	182262	9.358	ppbv	98
34) 2-Butanone	2.551	43	160977	8.707	ppbv	98
35) Carbon Tetrachloride	3.761	117	182902	9.200	ppbv	98
36) Benzene	3.655	78	233094	9.293	ppbv	99
37) 1,2-Dichloroethane	3.214	62	143363	9.772	ppbv	98
38) Trichloroethene	4.542	130	90993	9.272	ppbv	95
39) 1,2-Dichloropropane	4.305	63	83416	9.086	ppbv	95
40) 1,4-Dioxane	4.571	88	32109	7.780	ppbv #	95
41) Tetrahydrofuran	3.046	42	90769	8.891	ppbv	98
42) Bromodichloromethane	4.486	83	195442	9.657	ppbv	96
43) Methyl Methacrylate	4.872	69	116325	8.737	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	393438	9.133	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	97587	7.863	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	115476	7.924	ppbv		97
47) 1,1,2-Trichloroethane	6.577	97	88525	9.086	ppbv		95
48) Dibromochloromethane	7.380	129	159365	9.514	ppbv		99
49) Bromoform	9.477	173	134790	9.085	ppbv		99
50) 4-Methyl-2-Pentanone	5.742	43	224791	8.631	ppbv		99
51) 2-Hexanone	7.429	43	166506	8.233	ppbv	#	100
52) Tetrachloroethene	8.222	164	82890	8.884	ppbv		98
53) Toluene	6.924	91	273172	9.197	ppbv		99
54) 1,2-Dibromoethane	7.645	107	124804	8.705	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.921	131	142512	8.969	ppbv		98
57) Chlorobenzene	8.917	112	199373	8.981	ppbv		96
58) Ethyl Benzene	9.351	91	381474	9.167	ppbv		97
59) m/p-Xylene	9.549	91	604165m	18.108	ppbv		
60) o-Xylene	9.960	91	295836	8.876	ppbv		99
61) Styrene	9.866	104	127117	8.714	ppbv		97
62) Isopropylbenzene	10.536	105	525717	8.816	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.960	83	178591	8.421	ppbv		100
64) n-propylbenzene	10.986	120	131634	8.591	ppbv		96
65) tert-Butylbenzene	11.529	119	450819	8.465	ppbv		99
66) Benzyl Chloride	11.614	91	27878	5.159	ppbv		99
67) sec-Butylbenzene	11.766	105	623520	8.388	ppbv		100
69) p-Isopropyltoluene	11.924	119	520880	8.272	ppbv		99
70) n-Butylbenzene	12.280	91	513027	8.398	ppbv		99
71) 2-Chlorotoluene	10.898	91	396434	8.649	ppbv		99
72) 4-Ethyltoluene	11.122	105	356325	8.779	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	294977	8.660	ppbv		95
74) 1,2,4-Trimethylbenzene	11.533	105	314606	8.463	ppbv		94
75) 1,3-Dichlorobenzene	11.604	146	180491	8.320	ppbv		99
76) 1,4-Dichlorobenzene	11.669	146	179491	8.273	ppbv		99
77) 1,2-Dichlorobenzene	11.944	146	166137	7.966	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	125707	7.222	ppbv		100
79) Naphthalene	13.510	128	273029	8.270	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	74802	8.631	ppbv		97
81) 1,2,4-Trichlorobenzene	13.436	180	125470	8.497	ppbv		99

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

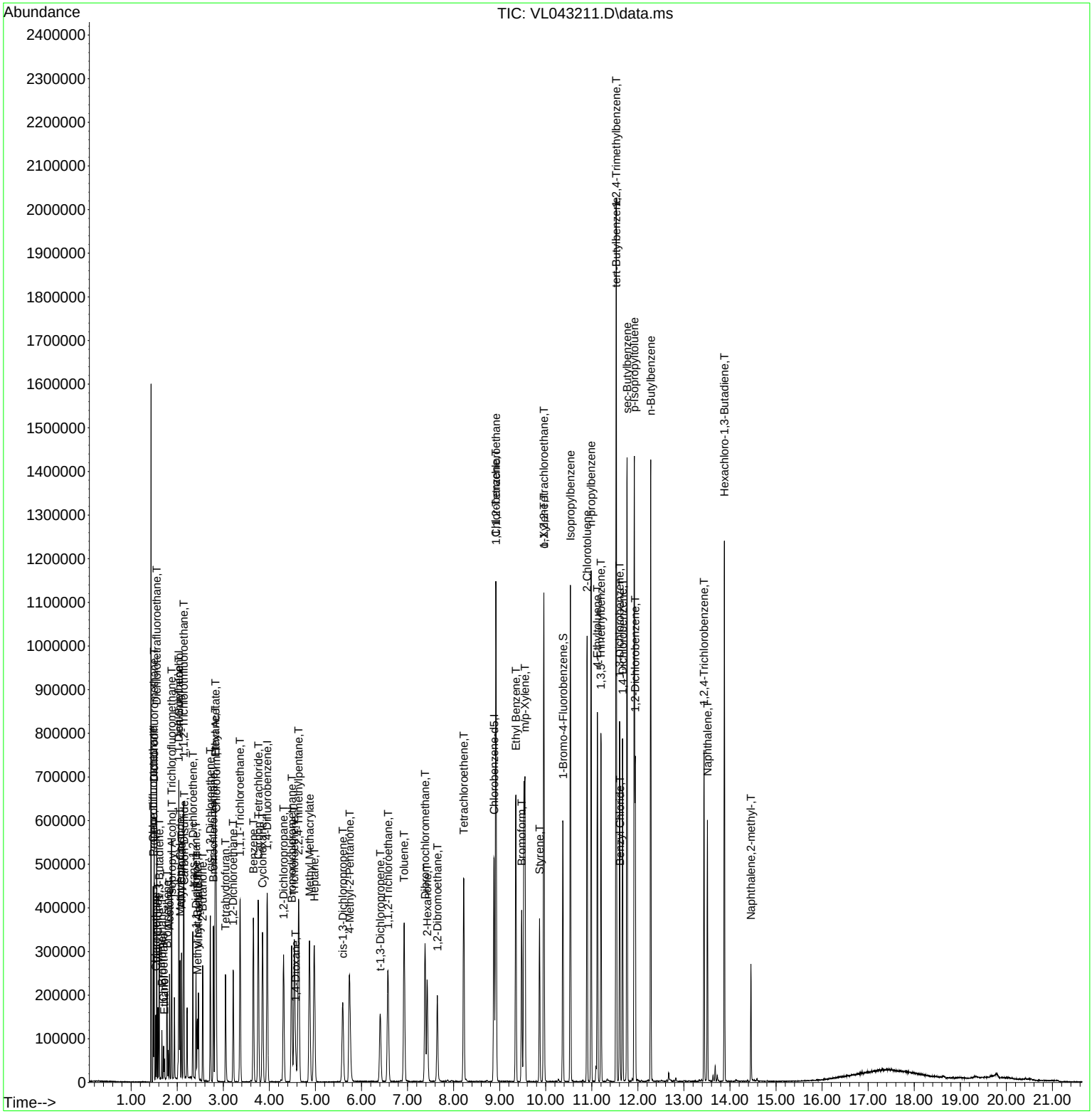
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2	T	Dichlorodifluoromethane	1.410	1.363	3.3	95	0.00
3		Chlorodifluoromethane	1.387	1.276	8.0	90	0.00
4		Chloromethane	0.527	0.479	9.1	90	0.00
5	T	Vinyl Chloride	0.577	0.490	15.1	94	0.00
6	T	Bromomethane	0.280	0.227	18.9	84	0.00
7		Chloroethane	0.225	0.203	9.8	97	0.00
8	T	Dichlorotetrafluoroethane	1.173	1.130	3.7	96	0.00
9	T	Propene	0.589	0.552	6.3	103	0.00
10	T	Heptane	1.753	1.525	13.0	88	0.00
11	T	Trichlorofluoromethane	1.367	1.377	-0.7	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.067	1.032	3.3	97	0.00
13		Ethanol	0.207	0.157	24.2	88	0.00
14	T	Bromoethene	0.409	0.378	7.6	97	0.00
15	T	Acetone	1.389	1.071	22.9	97	0.00
16	T	1,3-Butadiene	0.619	0.560	9.5	95	0.00
17		tert-Butyl alcohol	1.824	1.686	7.6	92	0.00
18	T	1,1-Dichloroethene	0.497	0.448	9.9	95	0.00
19	T	Isopropyl Alcohol	0.785	0.662	15.7	90	0.00
20	T	Methylene Chloride	0.600	0.422	29.7	99	0.00
21	T	Allyl Chloride	0.935	0.772	17.4	85	0.00
22	T	trans-1,2-Dichloroethene	0.568	0.513	9.7	96	0.00
23	T	Vinyl Acetate	1.677	1.432	14.6	82	0.00
24	T	1,1-Dichloroethane	1.096	1.054	3.8	96	0.00
25	T	Ethyl Acetate	2.996	2.643	11.8	89	0.00
26	T	Hexane	1.314	1.168	11.1	88	0.00
27	T	Carbon Disulfide	1.341	1.278	4.7	95	0.00
28	T	Methyl tert-Butyl Ether	0.645	0.656	-1.7	103	0.00
29	T	Chloroform	1.867	1.778	4.8	93	0.00
30	T	Cyclohexane	1.101	1.008	8.4	92	0.00
31	T	cis-1,2-Dichloroethene	1.306	1.225	6.2	92	0.00
32	T	1,1,1-Trichloroethane	1.990	1.863	6.4	92	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34	T	2-Butanone	0.706	0.615	12.9	88	0.00
35	T	Carbon Tetrachloride	0.759	0.698	8.0	91	0.00
36	T	Benzene	0.958	0.890	7.1	91	0.00
37	T	1,2-Dichloroethane	0.560	0.547	2.3	95	0.00
38	T	Trichloroethene	0.375	0.347	7.5	91	0.00
39	T	1,2-Dichloropropane	0.351	0.318	9.4	88	0.00
40	T	1,4-Dioxane	0.158	0.123	22.2	79	0.00
41	T	Tetrahydrofuran	0.390	0.347	11.0	87	0.00
42	T	Bromodichloromethane	0.773	0.746	3.5	92	0.00
43		Methyl Methacrylate	0.508	0.444	12.6	89	0.00
44	T	2,2,4-Trimethylpentane	1.645	1.502	8.7	89	0.00
45	T	t-1,3-Dichloropropene	0.474	0.373	21.3	76	0.00
46	T	cis-1,3-Dichloropropene	0.556	0.441	20.7	76	0.00
47	T	1,1,2-Trichloroethane	0.372	0.338	9.1	91	0.01
48	T	Dibromochloromethane	0.640	0.608	5.0	91	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	0.566	0.515	9.0	86	0.00
50	T	4-Methyl-2-Pentanone	0.994	0.858	13.7	84	0.00
51	T	2-Hexanone	0.772	0.636	17.6	80	0.00
52	T	Tetrachloroethene	0.356	0.316	11.2	89	0.00
53	T	Toluene	1.134	1.043	8.0	90	0.00
54	T	1,2-Dibromoethane	0.547	0.477	12.8	84	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56		1,1,1,2-Tetrachloroethane	0.735	0.659	10.3	90	0.00
57	T	Chlorobenzene	1.027	0.922	10.2	88	0.00
58	T	Ethyl Benzene	1.925	1.764	8.4	89	0.00
59	T	m/p-Xylene	1.543	1.397	9.5	90	0.00
60	T	o-Xylene	1.542	1.368	11.3	89	0.00
61	T	Styrene	0.675	0.588	12.9	84	0.00
62		Isopropylbenzene	2.758	2.431	11.9	88	0.00
63	T	1,1,2,2-Tetrachloroethane	0.981	0.826	15.8	85	0.00
64		n-propylbenzene	0.709	0.609	14.1	85	0.00
65		tert-Butylbenzene	2.463	2.085	15.3	86	0.00
66	T	Benzyl Chloride	0.250	0.129	48.4#	49	0.00
67		sec-Butylbenzene	3.438	2.884	16.1	85	0.00
68	S	1-Bromo-4-Fluorobenzene	0.733	0.737	-0.5	92	0.00
69		p-Isopropyltoluene	2.912	2.409	17.3	83	0.00
70		n-Butylbenzene	2.825	2.373	16.0	83	0.00
71		2-Chlorotoluene	2.120	1.834	13.5	86	0.00
72	T	4-Ethyltoluene	1.877	1.648	12.2	87	0.00
73	T	1,3,5-Trimethylbenzene	1.575	1.364	13.4	86	0.00
74	T	1,2,4-Trimethylbenzene	1.719	1.455	15.4	87	0.00
75	T	1,3-Dichlorobenzene	1.003	0.835	16.7	82	0.00
76	T	1,4-Dichlorobenzene	1.003	0.830	17.2	81	0.00
77	T	1,2-Dichlorobenzene	0.965	0.768	20.4	81	0.00
78	T	Hexachloro-1,3-Butadiene	0.805	0.581	27.8	78	0.00
79	T	Naphthalene	1.527	1.263	17.3	78	0.00
80	T	Naphthalene,2-methyl-	0.401	0.346	13.7	80	0.00
81	T	1,2,4-Trichlorobenzene	0.683	0.580	15.1	79	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\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	93	0.00
2	T	Dichlorodifluoromethane	10.000	9.664	3.4	95	0.00
3		Chlorodifluoromethane	10.000	9.199	8.0	90	0.00
4		Chloromethane	10.000	9.090	9.1	90	0.00
5	T	Vinyl Chloride	10.000	8.493	15.1	94	0.00
6	T	Bromomethane	10.000	8.126	18.7	84	0.00
7		Chloroethane	10.000	9.033	9.7	97	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.632	3.7	96	0.00
9	T	Propene	10.000	9.370	6.3	103	0.00
10	T	Heptane	10.000	8.698	13.0	88	0.00
11	T	Trichlorofluoromethane	10.000	10.077	-0.8	103	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.673	3.3	97	0.00
13		Ethanol	10.000	7.584	24.2	88	0.00
14	T	Bromoethene	10.000	9.240	7.6	97	0.00
15	T	Acetone	10.000	7.711	22.9	97	0.00
16	T	1,3-Butadiene	10.000	9.041	9.6	95	0.00
17		tert-Butyl alcohol	10.000	9.245	7.6	92	0.00
18	T	1,1-Dichloroethene	10.000	9.017	9.8	95	0.00
19	T	Isopropyl Alcohol	10.000	8.431	15.7	90	0.00
20	T	Methylene Chloride	10.000	10.323	-3.2	99	0.00
21	T	Allyl Chloride	10.000	8.256	17.4	85	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.041	9.6	96	0.00
23	T	Vinyl Acetate	10.000	8.539	14.6	82	0.00
24	T	1,1-Dichloroethane	10.000	9.622	3.8	96	0.00
25	T	Ethyl Acetate	10.000	8.820	11.8	89	0.00
26	T	Hexane	10.000	8.892	11.1	88	0.00
27	T	Carbon Disulfide	10.000	9.528	4.7	95	0.00
28	T	Methyl tert-Butyl Ether	10.000	10.171	-1.7	103	0.00
29	T	Chloroform	10.000	9.521	4.8	93	0.00
30	T	Cyclohexane	10.000	9.148	8.5	92	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.379	6.2	92	0.00
32	T	1,1,1-Trichloroethane	10.000	9.358	6.4	92	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34	T	2-Butanone	10.000	8.707	12.9	88	0.00
35	T	Carbon Tetrachloride	10.000	9.200	8.0	91	0.00
36	T	Benzene	10.000	9.293	7.1	91	0.00
37	T	1,2-Dichloroethane	10.000	9.772	2.3	95	0.00
38	T	Trichloroethene	10.000	9.272	7.3	91	0.00
39	T	1,2-Dichloropropane	10.000	9.086	9.1	88	0.00
40	T	1,4-Dioxane	10.000	7.780	22.2	79	0.00
41	T	Tetrahydrofuran	10.000	8.891	11.1	87	0.00
42	T	Bromodichloromethane	10.000	9.657	3.4	92	0.00
43		Methyl Methacrylate	10.000	8.737	12.6	89	0.00
44	T	2,2,4-Trimethylpentane	10.000	9.133	8.7	89	0.00
45	T	t-1,3-Dichloropropene	10.000	7.863	21.4	76	0.00
46	T	cis-1,3-Dichloropropene	10.000	7.924	20.8	76	0.00
47	T	1,1,2-Trichloroethane	10.000	9.086	9.1	91	0.01
48	T	Dibromochloromethane	10.000	9.514	4.9	91	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	9.085	9.1	86	0.00
50	T	4-Methyl-2-Pentanone	10.000	8.631	13.7	84	0.00
51	T	2-Hexanone	10.000	8.233	17.7	80	0.00
52	T	Tetrachloroethene	10.000	8.884	11.2	89	0.00
53	T	Toluene	10.000	9.197	8.0	90	0.00
54	T	1,2-Dibromoethane	10.000	8.705	13.0	84	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	92	0.00
56		1,1,1,2-Tetrachloroethane	10.000	8.969	10.3	90	0.00
57	T	Chlorobenzene	10.000	8.981	10.2	88	0.00
58	T	Ethyl Benzene	10.000	9.167	8.3	89	0.00
59	T	m/p-Xylene	20.000	18.108	9.5	90	0.00
60	T	o-Xylene	10.000	8.876	11.2	89	0.00
61	T	Styrene	10.000	8.714	12.9	84	0.00
62		Isopropylbenzene	10.000	8.816	11.8	88	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	8.421	15.8	85	0.00
64		n-propylbenzene	10.000	8.591	14.1	85	0.00
65		tert-Butylbenzene	10.000	8.465	15.4	86	0.00
66	T	Benzyl Chloride	10.000	5.159	48.4#	49	0.00
67		sec-Butylbenzene	10.000	8.388	16.1	85	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.048	-0.5	92	0.00
69		p-Isopropyltoluene	10.000	8.272	17.3	83	0.00
70		n-Butylbenzene	10.000	8.398	16.0	83	0.00
71		2-Chlorotoluene	10.000	8.649	13.5	86	0.00
72	T	4-Ethyltoluene	10.000	8.779	12.2	87	0.00
73	T	1,3,5-Trimethylbenzene	10.000	8.660	13.4	86	0.00
74	T	1,2,4-Trimethylbenzene	10.000	8.463	15.4	87	0.00
75	T	1,3-Dichlorobenzene	10.000	8.320	16.8	82	0.00
76	T	1,4-Dichlorobenzene	10.000	8.273	17.3	81	0.00
77	T	1,2-Dichlorobenzene	10.000	7.966	20.3	81	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	7.222	27.8	78	0.00
79	T	Naphthalene	10.000	8.270	17.3	78	0.00
80	T	Naphthalene,2-methyl-	10.000	8.631	13.7	80	0.00
81	T	1,2,4-Trichlorobenzene	10.000	8.497	15.0	79	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

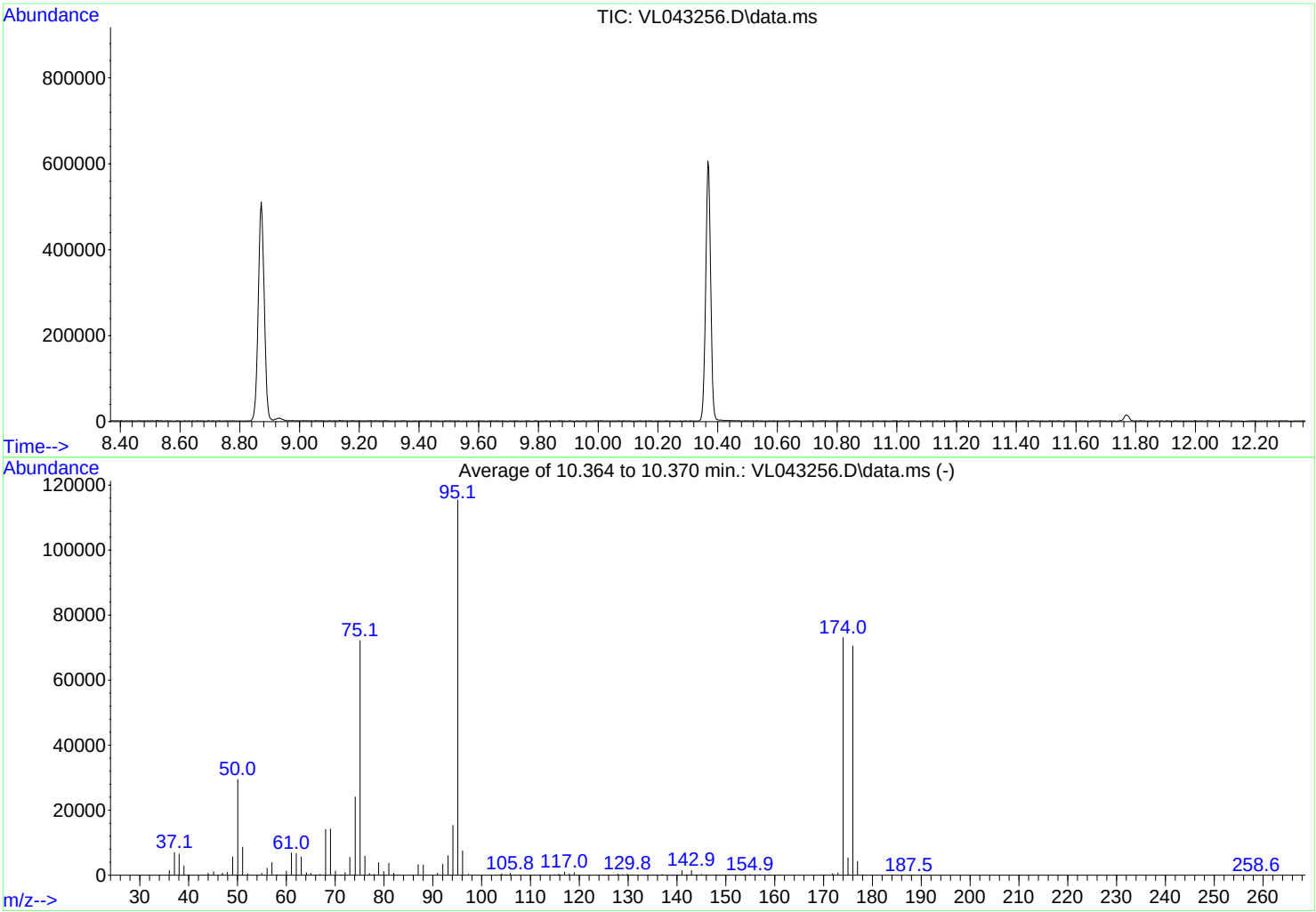
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043256.D
Acq On : 20 Nov 2025 08:41
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\VL111825AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Nov 19 01:11:25 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.5	29432	PASS
75	95	30	66	62.5	72149	PASS
95	95	100	100	100.0	115432	PASS
96	95	5	9	6.5	7511	PASS
173	174	0.00	2	1.0	742	PASS
174	95	50	120	63.3	73064	PASS
175	174	4	9	7.3	5336	PASS
176	174	93	101	96.5	70507	PASS
177	176	5	9	6.1	4312	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043257.D
Acq On : 20 Nov 2025 10:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 21 00:33:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.777	49	102759	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	275595	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.866	117	222776	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	166532	10.198	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	161177	11.121	ppbv	98
3) Chlorodifluoromethane	1.473	51	146232	10.259	ppbv	95
4) Chloromethane	1.531	50	54380	10.035	ppbv	95
5) Vinyl Chloride	1.577	62	55244	9.322	ppbv	95
6) Bromomethane	1.664	94	27639	9.621	ppbv	99
7) Chloroethane	1.700	64	22384	9.698	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	129834	10.769	ppbv	99
9) Propene	1.480	41	55697m	9.202	ppbv	
10) Heptane	4.959	43	156253	8.674	ppbv	95
11) Trichlorofluoromethane	1.874	101	169670	12.083	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.133	101	126654	11.553	ppbv	97
13) Ethanol	1.716	45	16970	7.973	ppbv	95
14) Bromoethene	1.777	108	45797	10.897	ppbv	96
15) Acetone	1.829	43	122027	8.547	ppbv	99
16) 1,3-Butadiene	1.606	39	62334	9.794	ppbv	97
17) tert-Butyl alcohol	2.033	59	175626	9.372	ppbv	100
18) 1,1-Dichloroethene	2.030	96	55419	10.857	ppbv	88
19) Isopropyl Alcohol	1.881	45	72573	8.996	ppbv	94
20) Methylene Chloride	2.056	84	48499	11.659	ppbv	95
21) Allyl Chloride	2.091	41	83761	8.720	ppbv	93
22) trans-1,2-Dichloroethene	2.334	96	62490	10.711	ppbv	90
23) Vinyl Acetate	2.454	43	157670	9.148	ppbv	99
24) 1,1-Dichloroethane	2.402	63	119663	10.625	ppbv	97
25) Ethyl Acetate	2.823	43	285972	9.287	ppbv	99
26) Hexane	2.819	57	130004	9.630	ppbv	98
27) Carbon Disulfide	2.146	76	150498	10.920	ppbv	99
28) Methyl tert-Butyl Ether	2.431	73	68600	10.352	ppbv	95
29) Chloroform	2.839	83	219297	11.429	ppbv	99
30) Cyclohexane	3.845	84	109617	9.685	ppbv	95
31) cis-1,2-Dichloroethene	2.713	61	137895	10.277	ppbv	93
32) 1,1,1-Trichloroethane	3.357	97	226600	11.079	ppbv	99
34) 2-Butanone	2.548	43	180979	9.303	ppbv	100
35) Carbon Tetrachloride	3.752	117	237548	11.356	ppbv	98
36) Benzene	3.645	78	265981	10.078	ppbv	99
37) 1,2-Dichloroethane	3.208	62	173345	11.229	ppbv	98
38) Trichloroethene	4.528	130	107877	10.447	ppbv	94
39) 1,2-Dichloropropane	4.299	63	92453	9.571	ppbv	95
40) 1,4-Dioxane	4.558	88	36555	8.418	ppbv #	91
41) Tetrahydrofuran	3.040	42	94776	8.822	ppbv	98
42) Bromodichloromethane	4.470	83	237498	11.152	ppbv	99
43) Methyl Methacrylate	4.862	69	125480	8.957	ppbv	96
44) 2,2,4-Trimethylpentane	4.622	57	437108	9.643	ppbv	99
45) t-1,3-Dichloropropene	6.389	75	100231	7.675	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043257.D
Acq On : 20 Nov 2025 10:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 21 00:33:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.577	75	122504	7.989	ppbv		98
47) 1,1,2-Trichloroethane	6.561	97	104460m	10.190	ppbv		
48) Dibromochloromethane	7.370	129	193819	10.997	ppbv		99
49) Bromoform	9.471	173	171644	10.994	ppbv		100
50) 4-Methyl-2-Pentanone	5.723	43	238084	8.688	ppbv		99
51) 2-Hexanone	7.415	43	172317	8.097	ppbv	#	99
52) Tetrachloroethene	8.208	164	99129	10.097	ppbv		94
53) Toluene	6.914	91	300158	9.604	ppbv		99
54) 1,2-Dibromoethane	7.636	107	146099	9.684	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.911	131	176606	10.787	ppbv		98
57) Chlorobenzene	8.908	112	236347	10.333	ppbv		98
58) Ethyl Benzene	9.341	91	430385	10.037	ppbv		99
59) m/p-Xylene	9.539	91	709378m	20.635	ppbv		
60) o-Xylene	9.950	91	353166	10.284	ppbv		100
61) Styrene	9.859	104	140574	9.353	ppbv		99
62) Isopropylbenzene	10.529	105	637682	10.379	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.950	83	214523	9.817	ppbv		100
64) n-propylbenzene	10.979	120	158685	10.052	ppbv		97
65) tert-Butylbenzene	11.520	119	544959	9.932	ppbv		98
66) Benzyl Chloride	11.604	91	23441	4.210	ppbv		99
67) sec-Butylbenzene	11.756	105	764527	9.982	ppbv		100
69) p-Isopropyltoluene	11.914	119	641411	9.886	ppbv		100
70) n-Butylbenzene	12.270	91	626151	9.948	ppbv		99
71) 2-Chlorotoluene	10.888	91	466353	9.875	ppbv		99
72) 4-Ethyltoluene	11.115	105	424355	10.147	ppbv		98
73) 1,3,5-Trimethylbenzene	11.193	105	355138	10.119	ppbv		96
74) 1,2,4-Trimethylbenzene	11.526	105	386671	10.095	ppbv		99
75) 1,3-Dichlorobenzene	11.597	146	227896	10.196	ppbv		99
76) 1,4-Dichlorobenzene	11.662	146	226164	10.117	ppbv		100
77) 1,2-Dichlorobenzene	11.937	146	215578	10.032	ppbv		98
78) Hexachloro-1,3-Butadiene	13.873	225	172235	9.604	ppbv		100
79) Naphthalene	13.504	128	324391	9.536	ppbv		98
80) Naphthalene,2-methyl-	14.449	142	78637	8.806	ppbv		98
81) 1,2,4-Trichlorobenzene	13.429	180	160725	10.564	ppbv		99

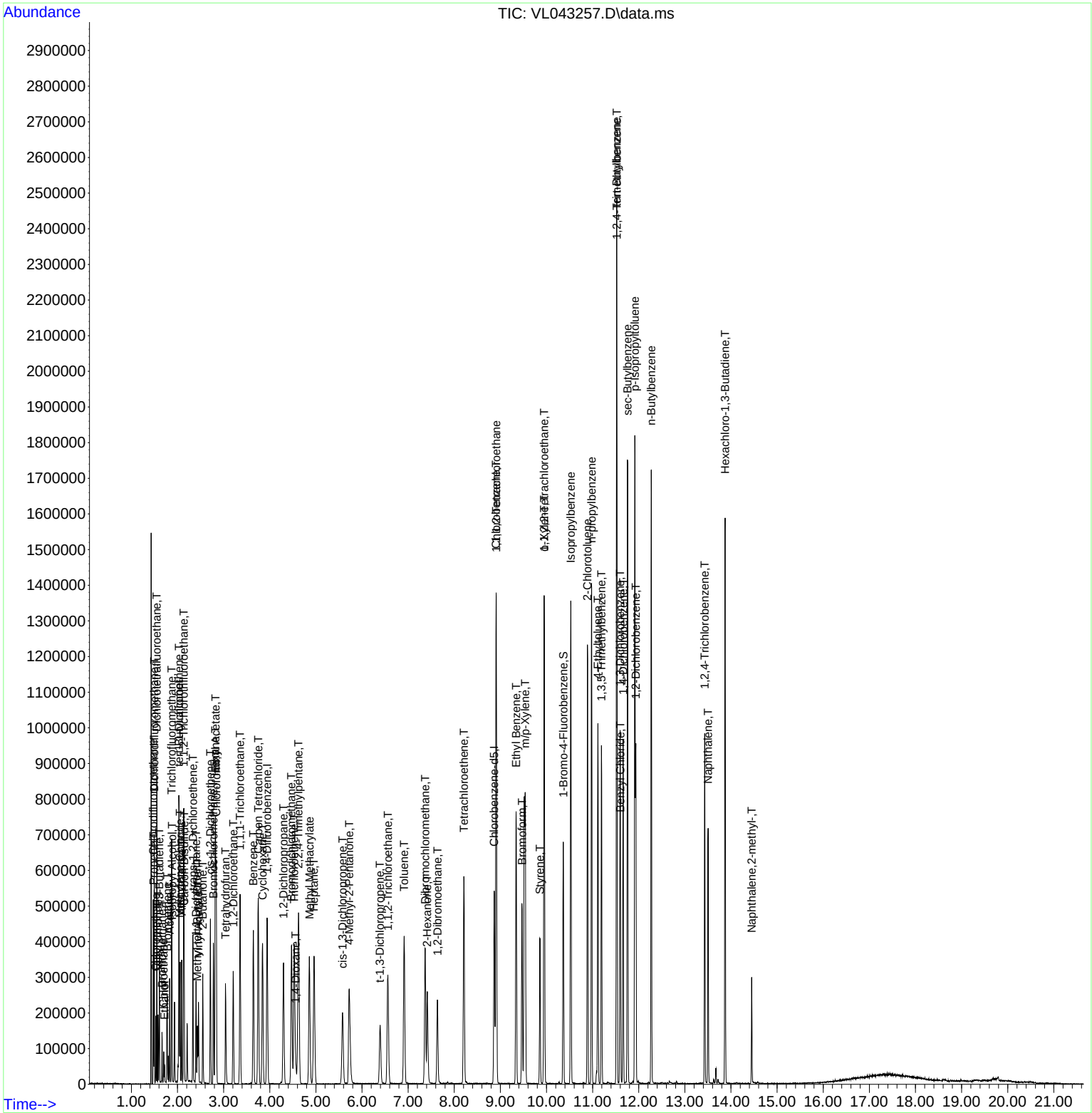
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043257.D
Acq On : 20 Nov 2025 10:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 21 00:33:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043257.D
Acq On : 20 Nov 2025 10:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 21 00:33:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	1.410	1.568	-11.2	114	0.00
3		Chlorodifluoromethane	1.387	1.423	-2.6	106	0.00
4		Chloromethane	0.527	0.529	-0.4	104	0.00
5	T	Vinyl Chloride	0.577	0.538	6.8	108	0.00
6	T	Bromomethane	0.280	0.269	3.9	104	0.00
7		Chloroethane	0.225	0.218	3.1	110	0.00
8	T	Dichlorotetrafluoroethane	1.173	1.263	-7.7	113	0.00
9	T	Propene	0.589	0.542	8.0	106	0.00
10	T	Heptane	1.753	1.521	13.2	93	0.00
11	T	Trichlorofluoromethane	1.367	1.651	-20.8	130	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.067	1.233	-15.6	122	0.00
13		Ethanol	0.207	0.165	20.3	97	0.00
14	T	Bromoethene	0.409	0.446	-9.0	120	0.00
15	T	Acetone	1.389	1.188	14.5	113	0.00
16	T	1,3-Butadiene	0.619	0.607	1.9	108	0.00
17		tert-Butyl alcohol	1.824	1.709	6.3	98	0.00
18	T	1,1-Dichloroethene	0.497	0.539	-8.5	120	0.00
19	T	Isopropyl Alcohol	0.785	0.706	10.1	101	0.00
20	T	Methylene Chloride	0.600	0.472	21.3	116	0.00
21	T	Allyl Chloride	0.935	0.815	12.8	94	0.00
22	T	trans-1,2-Dichloroethene	0.568	0.608	-7.0	119	0.00
23	T	Vinyl Acetate	1.677	1.534	8.5	92	0.00
24	T	1,1-Dichloroethane	1.096	1.165	-6.3	112	0.00
25	T	Ethyl Acetate	2.996	2.783	7.1	99	0.00
26	T	Hexane	1.314	1.265	3.7	100	0.00
27	T	Carbon Disulfide	1.341	1.465	-9.2	114	0.00
28	T	Methyl tert-Butyl Ether	0.645	0.668	-3.6	110	0.00
29	T	Chloroform	1.867	2.134	-14.3	117	0.00
30	T	Cyclohexane	1.101	1.067	3.1	102	0.00
31	T	cis-1,2-Dichloroethene	1.306	1.342	-2.8	106	0.00
32	T	1,1,1-Trichloroethane	1.990	2.205	-10.8	114	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
34	T	2-Butanone	0.706	0.657	6.9	99	0.00
35	T	Carbon Tetrachloride	0.759	0.862	-13.6	118	0.00
36	T	Benzene	0.958	0.965	-0.7	104	0.00
37	T	1,2-Dichloroethane	0.560	0.629	-12.3	115	0.00
38	T	Trichloroethene	0.375	0.391	-4.3	108	0.00
39	T	1,2-Dichloropropane	0.351	0.335	4.6	97	0.00
40	T	1,4-Dioxane	0.158	0.133	15.8	90	0.00
41	T	Tetrahydrofuran	0.390	0.344	11.8	91	0.00
42	T	Bromodichloromethane	0.773	0.862	-11.5	112	0.00
43		Methyl Methacrylate	0.508	0.455	10.4	96	0.00
44	T	2,2,4-Trimethylpentane	1.645	1.586	3.6	99	0.00
45	T	t-1,3-Dichloropropene	0.474	0.364	23.2	78	0.00
46	T	cis-1,3-Dichloropropene	0.556	0.445	20.0	81	0.00
47	T	1,1,2-Trichloroethane	0.372	0.379	-1.9	107	0.00
48	T	Dibromochloromethane	0.640	0.703	-9.8	110	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043257.D
Acq On : 20 Nov 2025 10:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 21 00:33:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	0.566	0.623	-10.1	109	0.00
50	T	4-Methyl-2-Pentanone	0.994	0.864	13.1	89	0.00
51	T	2-Hexanone	0.772	0.625	19.0	83	0.00
52	T	Tetrachloroethene	0.356	0.360	-1.1	106	0.00
53	T	Toluene	1.134	1.089	4.0	98	0.00
54	T	1,2-Dibromoethane	0.547	0.530	3.1	98	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
56		1,1,1,2-Tetrachloroethane	0.735	0.793	-7.9	111	0.00
57	T	Chlorobenzene	1.027	1.061	-3.3	104	0.00
58	T	Ethyl Benzene	1.925	1.932	-0.4	101	0.00
59	T	m/p-Xylene	1.543	1.592	-3.2	105	0.00
60	T	o-Xylene	1.542	1.585	-2.8	106	0.00
61	T	Styrene	0.675	0.631	6.5	92	0.00
62		Isopropylbenzene	2.758	2.862	-3.8	106	0.00
63	T	1,1,2,2-Tetrachloroethane	0.981	0.963	1.8	103	0.00
64		n-propylbenzene	0.709	0.712	-0.4	103	0.00
65		tert-Butylbenzene	2.463	2.446	0.7	104	0.00
66	T	Benzyl Chloride	0.250	0.105	58.0#	41	0.00
67		sec-Butylbenzene	3.438	3.432	0.2	105	0.00
68	S	1-Bromo-4-Fluorobenzene	0.733	0.748	-2.0	97	0.00
69		p-Isopropyltoluene	2.912	2.879	1.1	103	0.00
70		n-Butylbenzene	2.825	2.811	0.5	101	0.00
71		2-Chlorotoluene	2.120	2.093	1.3	101	0.00
72	T	4-Ethyltoluene	1.877	1.905	-1.5	103	0.00
73	T	1,3,5-Trimethylbenzene	1.575	1.594	-1.2	104	0.00
74	T	1,2,4-Trimethylbenzene	1.719	1.736	-1.0	106	0.00
75	T	1,3-Dichlorobenzene	1.003	1.023	-2.0	104	0.00
76	T	1,4-Dichlorobenzene	1.003	1.015	-1.2	103	0.00
77	T	1,2-Dichlorobenzene	0.965	0.968	-0.3	105	0.00
78	T	Hexachloro-1,3-Butadiene	0.805	0.773	4.0	107	0.00
79	T	Naphthalene	1.527	1.456	4.6	92	0.00
80	T	Naphthalene,2-methyl-	0.401	0.353	12.0	84	0.00
81	T	1,2,4-Trichlorobenzene	0.683	0.721	-5.6	101	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\VL112025\
Data File : VL043257.D
Acq On : 20 Nov 2025 10:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 21 00:33:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	98	0.00
2	T	Dichlorodifluoromethane	10.000	11.121	-11.2	114	0.00
3		Chlorodifluoromethane	10.000	10.259	-2.6	106	0.00
4		Chloromethane	10.000	10.035	-0.4	104	0.00
5	T	Vinyl Chloride	10.000	9.322	6.8	108	0.00
6	T	Bromomethane	10.000	9.621	3.8	104	0.00
7		Chloroethane	10.000	9.698	3.0	110	0.00
8	T	Dichlorotetrafluoroethane	10.000	10.769	-7.7	113	0.00
9	T	Propene	10.000	9.202	8.0	106	0.00
10	T	Heptane	10.000	8.674	13.3	93	0.00
11	T	Trichlorofluoromethane	10.000	12.083	-20.8	130	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	11.553	-15.5	122	0.00
13		Ethanol	10.000	7.973	20.3	97	0.00
14	T	Bromoethene	10.000	10.897	-9.0	120	0.00
15	T	Acetone	10.000	8.547	14.5	113	0.00
16	T	1,3-Butadiene	10.000	9.794	2.1	108	0.00
17		tert-Butyl alcohol	10.000	9.372	6.3	98	0.00
18	T	1,1-Dichloroethene	10.000	10.857	-8.6	120	0.00
19	T	Isopropyl Alcohol	10.000	8.996	10.0	101	0.00
20	T	Methylene Chloride	10.000	11.659	-16.6	116	0.00
21	T	Allyl Chloride	10.000	8.720	12.8	94	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.711	-7.1	119	0.00
23	T	Vinyl Acetate	10.000	9.148	8.5	92	0.00
24	T	1,1-Dichloroethane	10.000	10.625	-6.3	112	0.00
25	T	Ethyl Acetate	10.000	9.287	7.1	99	0.00
26	T	Hexane	10.000	9.630	3.7	100	0.00
27	T	Carbon Disulfide	10.000	10.920	-9.2	114	0.00
28	T	Methyl tert-Butyl Ether	10.000	10.352	-3.5	110	0.00
29	T	Chloroform	10.000	11.429	-14.3	117	0.00
30	T	Cyclohexane	10.000	9.685	3.1	102	0.00
31	T	cis-1,2-Dichloroethene	10.000	10.277	-2.8	106	0.00
32	T	1,1,1-Trichloroethane	10.000	11.079	-10.8	114	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	97	0.00
34	T	2-Butanone	10.000	9.303	7.0	99	0.00
35	T	Carbon Tetrachloride	10.000	11.356	-13.6	118	0.00
36	T	Benzene	10.000	10.078	-0.8	104	0.00
37	T	1,2-Dichloroethane	10.000	11.229	-12.3	115	0.00
38	T	Trichloroethene	10.000	10.447	-4.5	108	0.00
39	T	1,2-Dichloropropane	10.000	9.571	4.3	97	0.00
40	T	1,4-Dioxane	10.000	8.418	15.8	90	0.00
41	T	Tetrahydrofuran	10.000	8.822	11.8	91	0.00
42	T	Bromodichloromethane	10.000	11.152	-11.5	112	0.00
43		Methyl Methacrylate	10.000	8.957	10.4	96	0.00
44	T	2,2,4-Trimethylpentane	10.000	9.643	3.6	99	0.00
45	T	t-1,3-Dichloropropene	10.000	7.675	23.3	78	0.00
46	T	cis-1,3-Dichloropropene	10.000	7.989	20.1	81	0.00
47	T	1,1,2-Trichloroethane	10.000	10.190	-1.9	107	0.00
48	T	Dibromochloromethane	10.000	10.997	-10.0	110	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043257.D
Acq On : 20 Nov 2025 10:14
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 21 00:33:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	10.994	-9.9	109	0.00
50	T	4-Methyl-2-Pentanone	10.000	8.688	13.1	89	0.00
51	T	2-Hexanone	10.000	8.097	19.0	83	0.00
52	T	Tetrachloroethene	10.000	10.097	-1.0	106	0.00
53	T	Toluene	10.000	9.604	4.0	98	0.00
54	T	1,2-Dibromoethane	10.000	9.684	3.2	98	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	95	0.00
56		1,1,1,2-Tetrachloroethane	10.000	10.787	-7.9	111	0.00
57	T	Chlorobenzene	10.000	10.333	-3.3	104	0.00
58	T	Ethyl Benzene	10.000	10.037	-0.4	101	0.00
59	T	m/p-Xylene	20.000	20.635	-3.2	105	0.00
60	T	o-Xylene	10.000	10.284	-2.8	106	0.00
61	T	Styrene	10.000	9.353	6.5	92	0.00
62		Isopropylbenzene	10.000	10.379	-3.8	106	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	9.817	1.8	103	0.00
64		n-propylbenzene	10.000	10.052	-0.5	103	0.00
65		tert-Butylbenzene	10.000	9.932	0.7	104	0.00
66	T	Benzyl Chloride	10.000	4.210	57.9#	41	0.00
67		sec-Butylbenzene	10.000	9.982	0.2	105	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.198	-2.0	97	0.00
69		p-Isopropyltoluene	10.000	9.886	1.1	103	0.00
70		n-Butylbenzene	10.000	9.948	0.5	101	0.00
71		2-Chlorotoluene	10.000	9.875	1.3	101	0.00
72	T	4-Ethyltoluene	10.000	10.147	-1.5	103	0.00
73	T	1,3,5-Trimethylbenzene	10.000	10.119	-1.2	104	0.00
74	T	1,2,4-Trimethylbenzene	10.000	10.095	-1.0	106	0.00
75	T	1,3-Dichlorobenzene	10.000	10.196	-2.0	104	0.00
76	T	1,4-Dichlorobenzene	10.000	10.117	-1.2	103	0.00
77	T	1,2-Dichlorobenzene	10.000	10.032	-0.3	105	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	9.604	4.0	107	0.00
79	T	Naphthalene	10.000	9.536	4.6	92	0.00
80	T	Naphthalene,2-methyl-	10.000	8.806	11.9	84	0.00
81	T	1,2,4-Trichlorobenzene	10.000	10.564	-5.6	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043258.D
Acq On : 20 Nov 2025 11:01
Operator : SY/MD
Sample : VL1120ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABL01

Quant Time: Nov 21 00:35:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

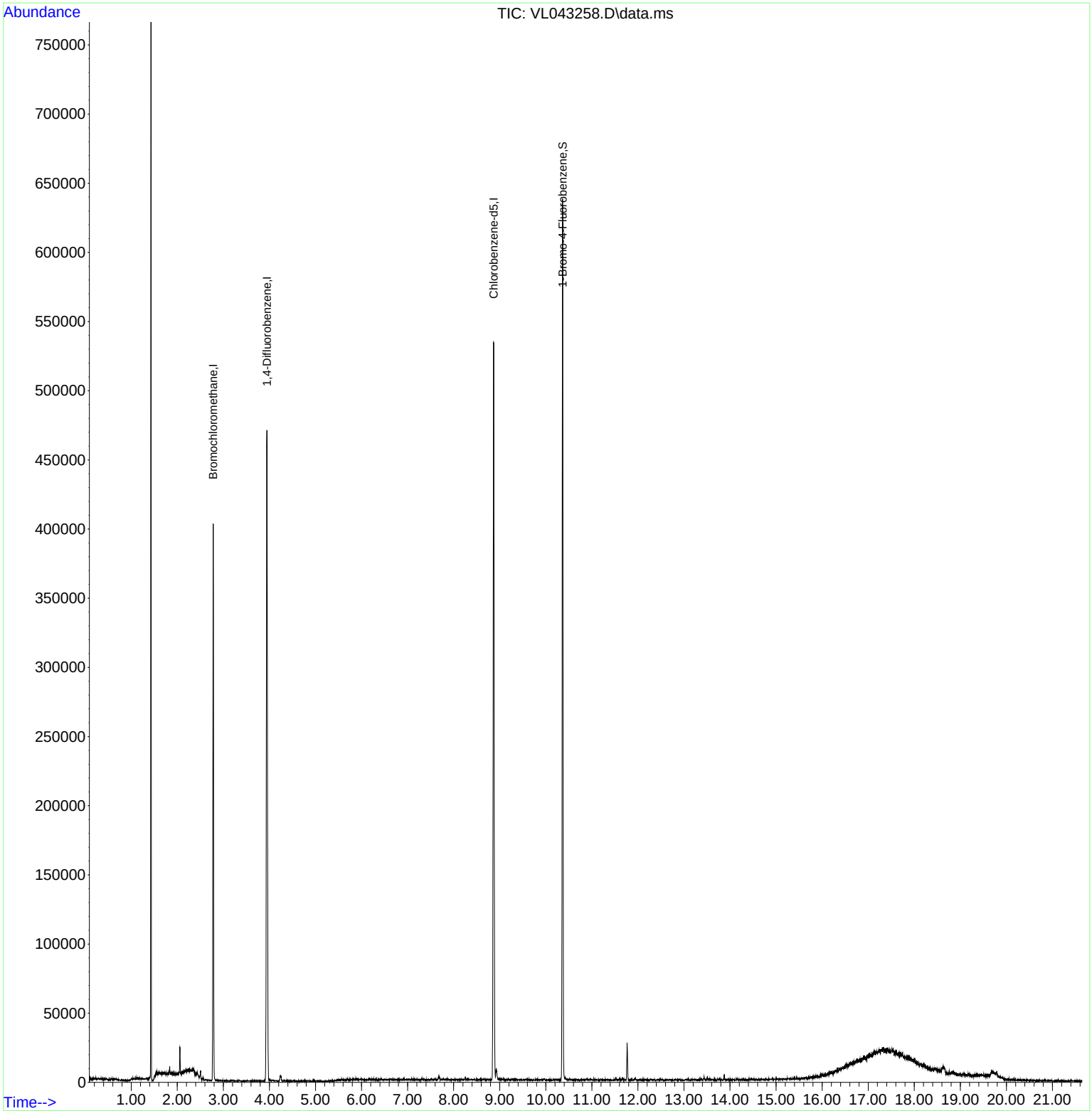
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	105521	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	275399	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	211341	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	154256	9.958	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\VL112025\
Data File : VL043258.D
Acq On : 20 Nov 2025 11:01
Operator : SY/MD
Sample : VL1120ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABL01

Quant Time: Nov 21 00:35:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043259.D
Acq On : 20 Nov 2025 11:34
Operator : SY/MD
Sample : QC111725 CAN 10588
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC111725 CAN 10588

Quant Time: Nov 21 00:35:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

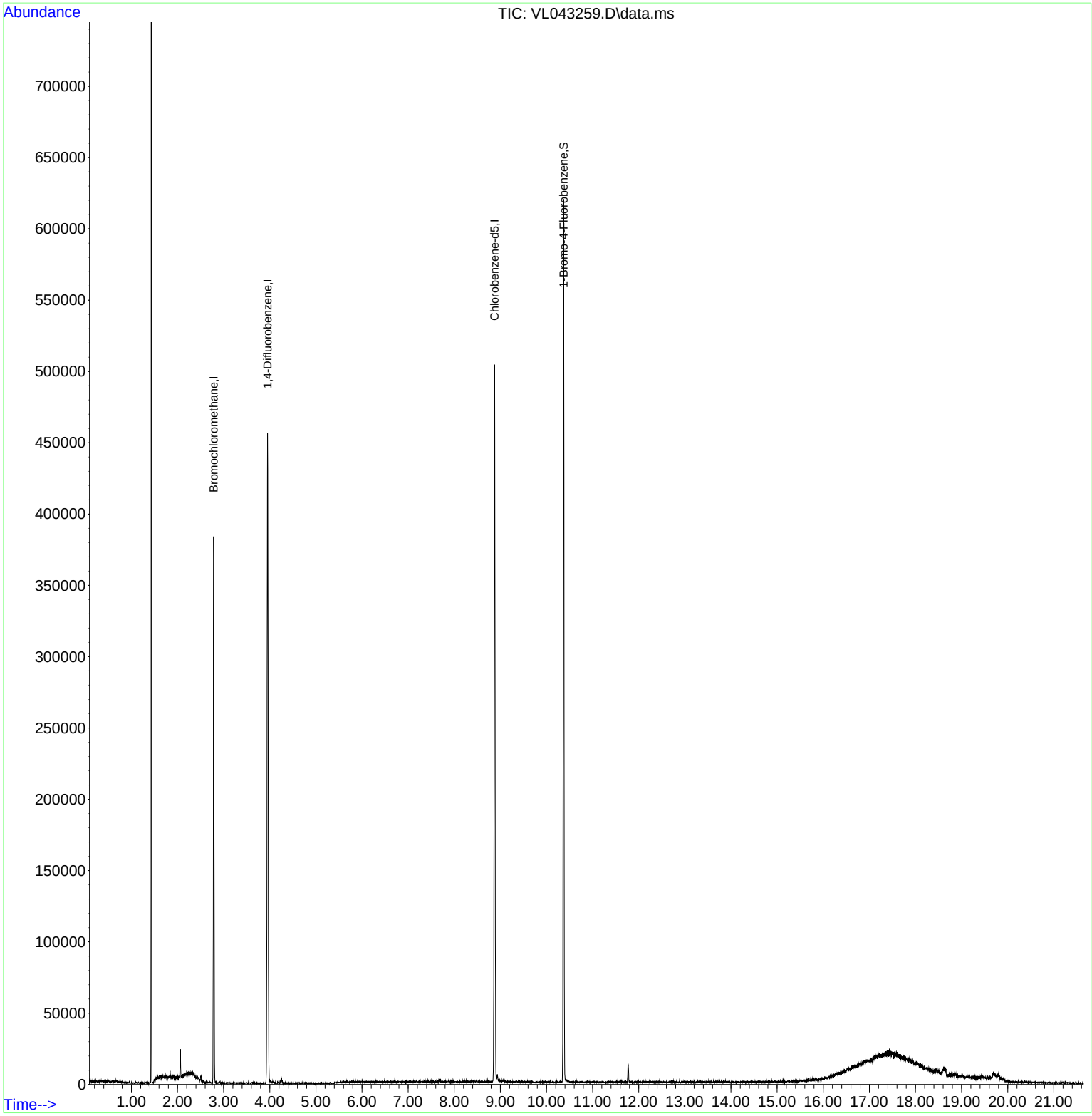
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	97406	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	258018	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	201755	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	144519	9.772	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.700%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043259.D
Acq On : 20 Nov 2025 11:34
Operator : SY/MD
Sample : QC111725 CAN 10588
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC111725 CAN 10588

Quant Time: Nov 21 00:35:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043260.D
Acq On : 20 Nov 2025 12:07
Operator : SY/MD
Sample : VL1120ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 21 00:36:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	101372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	270113	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	214473	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	164533	10.466	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	164798	11.526	ppbv	99
3) Chlorodifluoromethane	1.476	51	142815	10.157	ppbv	95
4) Chloromethane	1.534	50	55072	10.302	ppbv	96
5) Vinyl Chloride	1.580	62	55657	9.520	ppbv	93
6) Bromomethane	1.667	94	25862	9.126	ppbv	82
7) Chloroethane	1.703	64	22017	9.670	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	131076	11.021	ppbv	98
9) Propene	1.483	41	53732m	8.999	ppbv	
10) Heptane	4.972	43	158256	8.906	ppbv	99
11) Trichlorofluoromethane	1.878	101	171548	12.384	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.140	101	126812	11.726	ppbv	99
13) Ethanol	1.719	45	17475	8.323	ppbv	99
14) Bromoethene	1.780	108	44833	10.813	ppbv	97
15) Acetone	1.832	43	119678	8.497	ppbv	100
16) 1,3-Butadiene	1.609	39	61711	9.828	ppbv	95
17) tert-Butyl alcohol	2.036	59	171332	9.268	ppbv	100
18) 1,1-Dichloroethene	2.033	96	53337	10.592	ppbv	98
19) Isopropyl Alcohol	1.884	45	68773	8.642	ppbv	90
20) Methylene Chloride	2.062	84	48243	11.763	ppbv	93
21) Allyl Chloride	2.094	41	83462	8.808	ppbv	92
22) trans-1,2-Dichloroethene	2.340	96	61279	10.647	ppbv	93
23) Vinyl Acetate	2.460	43	142709	8.393	ppbv	98
24) 1,1-Dichloroethane	2.408	63	121792	10.962	ppbv	98
25) Ethyl Acetate	2.829	43	281330	9.262	ppbv	99
26) Hexane	2.823	57	126532	9.501	ppbv	99
27) Carbon Disulfide	2.149	76	148765	10.942	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	64675	9.894	ppbv	98
29) Chloroform	2.845	83	220567	11.652	ppbv	96
30) Cyclohexane	3.852	84	107088	9.591	ppbv	95
31) cis-1,2-Dichloroethene	2.719	61	131746	9.953	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	225329	11.168	ppbv	99
34) 2-Butanone	2.551	43	177069	9.287	ppbv	100
35) Carbon Tetrachloride	3.758	117	236089	11.515	ppbv	98
36) Benzene	3.651	78	257481	9.954	ppbv	98
37) 1,2-Dichloroethane	3.214	62	171416	11.329	ppbv	97
38) Trichloroethene	4.541	130	107097	10.582	ppbv	93
39) 1,2-Dichloropropane	4.308	63	92063	9.724	ppbv	87
40) 1,4-Dioxane	4.570	88	35055	8.236	ppbv #	93
41) Tetrahydrofuran	3.046	42	92013	8.739	ppbv	100
42) Bromodichloromethane	4.480	83	232959	11.161	ppbv	100
43) Methyl Methacrylate	4.865	69	122481	8.920	ppbv	96
44) 2,2,4-Trimethylpentane	4.632	57	428558	9.646	ppbv	98
45) t-1,3-Dichloropropene	6.402	75	96138	7.511	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043260.D
Acq On : 20 Nov 2025 12:07
Operator : SY/MD
Sample : VL1120ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 21 00:36:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	117380	7.810	ppbv		98
47) 1,1,2-Trichloroethane	6.571	97	104185	10.369	ppbv		97
48) Dibromochloromethane	7.377	129	188165	10.892	ppbv		99
49) Bromoform	9.474	173	168175	10.991	ppbv		99
50) 4-Methyl-2-Pentanone	5.736	43	237956	8.859	ppbv		99
51) 2-Hexanone	7.425	43	170769	8.187	ppbv	#	99
52) Tetrachloroethene	8.218	164	99982	10.391	ppbv		98
53) Toluene	6.927	91	294482	9.614	ppbv		100
54) 1,2-Dibromoethane	7.642	107	143721	9.720	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.917	131	176862	11.221	ppbv		99
57) Chlorobenzene	8.914	112	234816	10.664	ppbv		99
58) Ethyl Benzene	9.348	91	427546	10.357	ppbv		99
59) m/p-Xylene	9.542	91	708974m	21.422	ppbv		
60) o-Xylene	9.956	91	353595	10.695	ppbv		99
61) Styrene	9.862	104	135477	9.363	ppbv		98
62) Isopropylbenzene	10.532	105	634112	10.720	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.953	83	218173	10.371	ppbv		99
64) n-propylbenzene	10.982	120	159286	10.480	ppbv		97
65) tert-Butylbenzene	11.526	119	552915	10.467	ppbv		98
66) Benzyl Chloride	11.610	91	22396	4.178	ppbv		98
67) sec-Butylbenzene	11.762	105	779369	10.570	ppbv		99
69) p-Isopropyltoluene	11.921	119	649941	10.405	ppbv		100
70) n-Butylbenzene	12.277	91	622858	10.278	ppbv		100
71) 2-Chlorotoluene	10.895	91	469961	10.337	ppbv		100
72) 4-Ethyltoluene	11.118	105	423927	10.529	ppbv		98
73) 1,3,5-Trimethylbenzene	11.199	105	358599	10.613	ppbv		95
74) 1,2,4-Trimethylbenzene	11.532	105	392516	10.645	ppbv		94
75) 1,3-Dichlorobenzene	11.604	146	231654	10.765	ppbv		99
76) 1,4-Dichlorobenzene	11.665	146	229039	10.642	ppbv		100
77) 1,2-Dichlorobenzene	11.944	146	220159	10.642	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	171979	9.961	ppbv		100
79) Naphthalene	13.507	128	319763	9.764	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	75079	8.734	ppbv		97
81) 1,2,4-Trichlorobenzene	13.436	180	157618	10.761	ppbv		99

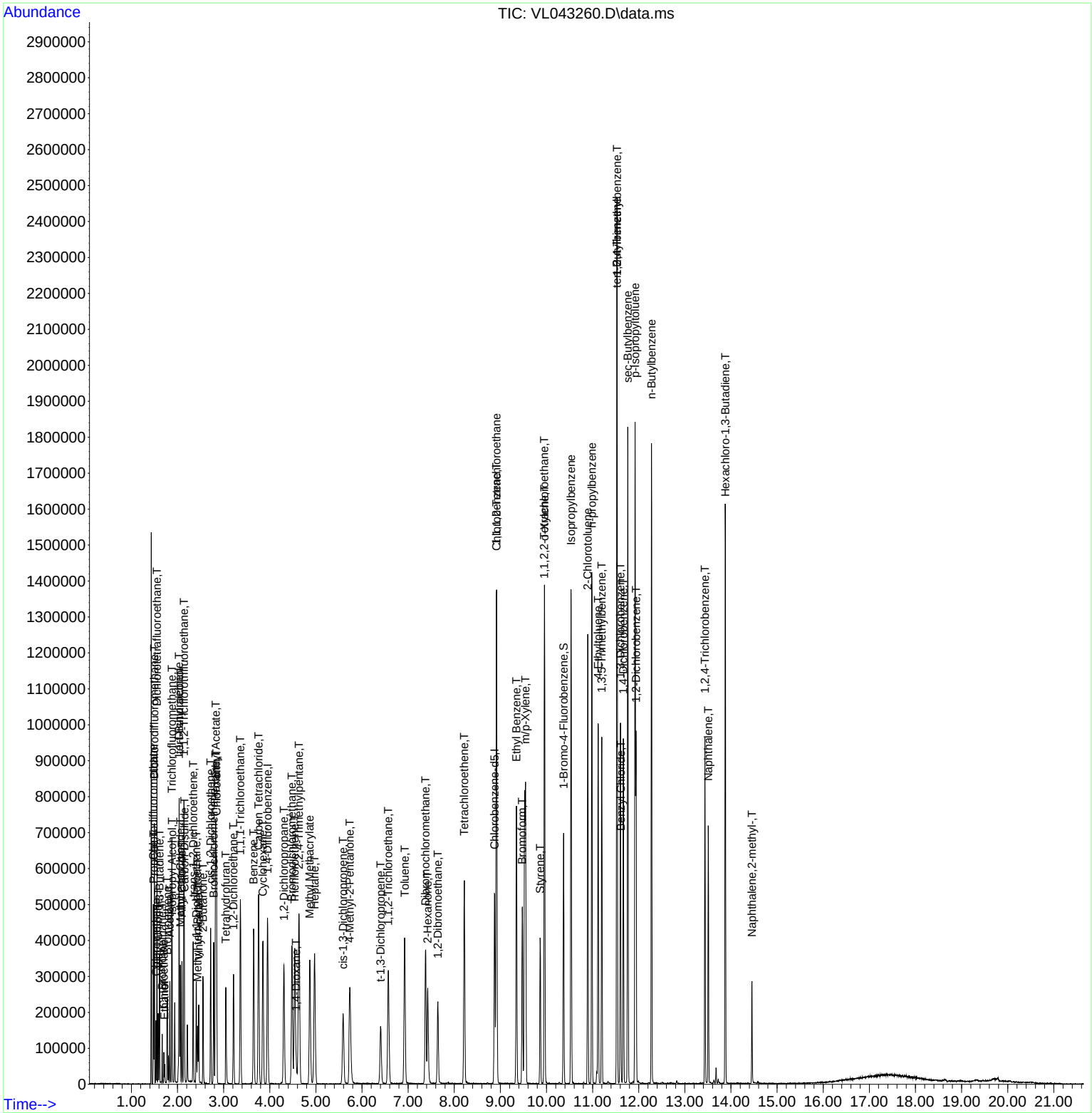
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043260.D
Acq On : 20 Nov 2025 12:07
Operator : SY/MD
Sample : VL1120ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 21 00:36:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1120ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



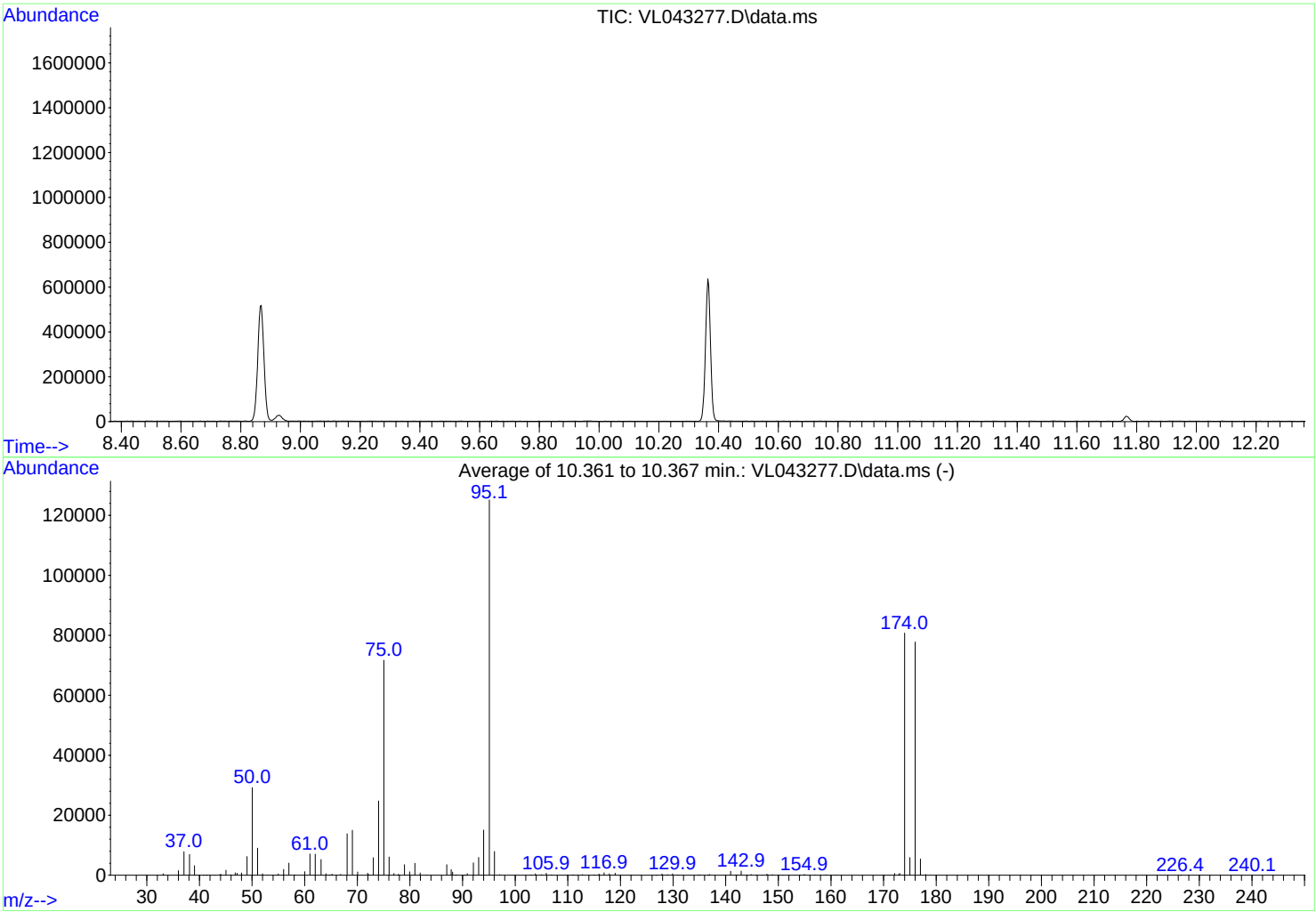
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043277.D
Acq On : 24 Nov 2025 08:53
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\VL111825AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Nov 19 01:11:25 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	23.3	29189	PASS
75	95	30	66	57.3	71715	PASS
95	95	100	100	100.0	125165	PASS
96	95	5	9	6.3	7928	PASS
173	174	0.00	2	0.8	642	PASS
174	95	50	120	64.5	80763	PASS
175	174	4	9	7.3	5908	PASS
176	174	93	101	96.3	77795	PASS
177	176	5	9	7.0	5416	PASS

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043278.D
Acq On : 24 Nov 2025 12:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 24 23:38:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	107061	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	275969	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	215083	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	163444	10.367	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	165790	10.979	ppbv	100
3) Chlorodifluoromethane	1.476	51	154655	10.414	ppbv	96
4) Chloromethane	1.531	50	57140	10.121	ppbv	92
5) Vinyl Chloride	1.580	62	57379	9.293	ppbv	94
6) Bromomethane	1.667	94	28470	9.512	ppbv	95
7) Chloroethane	1.703	64	23590	9.810	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	137737	10.965	ppbv	99
9) Propene	1.482	41	60577m	9.606	ppbv	
10) Heptane	4.968	43	170551	9.087	ppbv	99
11) Trichlorofluoromethane	1.877	101	175925	12.025	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	130475	11.423	ppbv	96
13) Ethanol	1.719	45	17888	8.067	ppbv	95
14) Bromoethene	1.780	108	47510	10.850	ppbv	96
15) Acetone	1.832	43	125343	8.427	ppbv	99
16) 1,3-Butadiene	1.609	39	64565	9.736	ppbv	96
17) tert-Butyl alcohol	2.036	59	188025	9.630	ppbv	100
18) 1,1-Dichloroethene	2.033	96	57383	10.790	ppbv	98
19) Isopropyl Alcohol	1.884	45	75837	9.023	ppbv	93
20) Methylene Chloride	2.059	84	52345	12.108	ppbv	91
21) Allyl Chloride	2.094	41	88510	8.844	ppbv	94
22) trans-1,2-Dichloroethene	2.337	96	64226	10.566	ppbv	99
23) Vinyl Acetate	2.460	43	162160	9.030	ppbv #	99
24) 1,1-Dichloroethane	2.405	63	126001	10.739	ppbv	98
25) Ethyl Acetate	2.829	43	302952	9.443	ppbv	99
26) Hexane	2.822	57	136961	9.738	ppbv	98
27) Carbon Disulfide	2.149	76	160712	11.192	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	69559	10.075	ppbv	94
29) Chloroform	2.845	83	232873	11.649	ppbv	100
30) Cyclohexane	3.852	84	115484	9.793	ppbv	95
31) cis-1,2-Dichloroethene	2.716	61	143927	10.295	ppbv	98
32) 1,1,1-Trichloroethane	3.360	97	239307	11.230	ppbv	99
34) 2-Butanone	2.551	43	193336	9.925	ppbv	99
35) Carbon Tetrachloride	3.758	117	251772	12.019	ppbv	98
36) Benzene	3.651	78	281056	10.634	ppbv	98
37) 1,2-Dichloroethane	3.211	62	179931	11.639	ppbv	98
38) Trichloroethene	4.538	130	112004	10.832	ppbv	95
39) 1,2-Dichloropropane	4.305	63	100819	10.423	ppbv	89
40) 1,4-Dioxane	4.570	88	37926	8.722	ppbv #	97
41) Tetrahydrofuran	3.046	42	100803	9.370	ppbv	97
42) Bromodichloromethane	4.480	83	247223	11.593	ppbv	98
43) Methyl Methacrylate	4.868	69	133803	9.538	ppbv	94
44) 2,2,4-Trimethylpentane	4.632	57	465164	10.248	ppbv	98
45) t-1,3-Dichloropropene	6.405	75	104473	7.989	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043278.D
Acq On : 24 Nov 2025 12:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 24 23:38:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	128727	8.383	ppbv		93
47) 1,1,2-Trichloroethane	6.567	97	112927	11.001	ppbv		97
48) Dibromochloromethane	7.376	129	204344	11.578	ppbv		100
49) Bromoform	9.474	173	180678	11.557	ppbv		99
50) 4-Methyl-2-Pentanone	5.729	43	252700	9.209	ppbv		100
51) 2-Hexanone	7.422	43	183438	8.608	ppbv	#	99
52) Tetrachloroethene	8.218	164	102830	10.460	ppbv		91
53) Toluene	6.923	91	312291	9.979	ppbv		99
54) 1,2-Dibromoethane	7.642	107	152418	10.090	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.917	131	189737	12.003	ppbv		99
57) Chlorobenzene	8.914	112	249546	11.300	ppbv		97
58) Ethyl Benzene	9.348	91	448888	10.843	ppbv		97
59) m/p-Xylene	9.545	91	735995m	22.175	ppbv		
60) o-Xylene	9.956	91	373234	11.257	ppbv		100
61) Styrene	9.862	104	142379	9.812	ppbv		99
62) Isopropylbenzene	10.532	105	663175	11.180	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.956	83	229515	10.879	ppbv		100
64) n-propylbenzene	10.982	120	162848	10.684	ppbv		93
65) tert-Butylbenzene	11.526	119	575690	10.867	ppbv		99
66) Benzyl Chloride	11.610	91	27757	5.163	ppbv		98
67) sec-Butylbenzene	11.762	105	808129	10.929	ppbv		99
69) p-Isopropyltoluene	11.921	119	665442	10.623	ppbv		99
70) n-Butylbenzene	12.277	91	647136	10.649	ppbv		100
71) 2-Chlorotoluene	10.895	91	495463	10.867	ppbv		99
72) 4-Ethyltoluene	11.118	105	442267	10.953	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	372473	10.992	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	409684	11.079	ppbv		90
75) 1,3-Dichlorobenzene	11.600	146	242050	11.217	ppbv		99
76) 1,4-Dichlorobenzene	11.665	146	239021	11.074	ppbv		99
77) 1,2-Dichlorobenzene	11.940	146	231049	11.136	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	181252	10.468	ppbv		99
79) Naphthalene	13.507	128	339967	10.351	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	85751	9.947	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	170083	11.579	ppbv		97

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

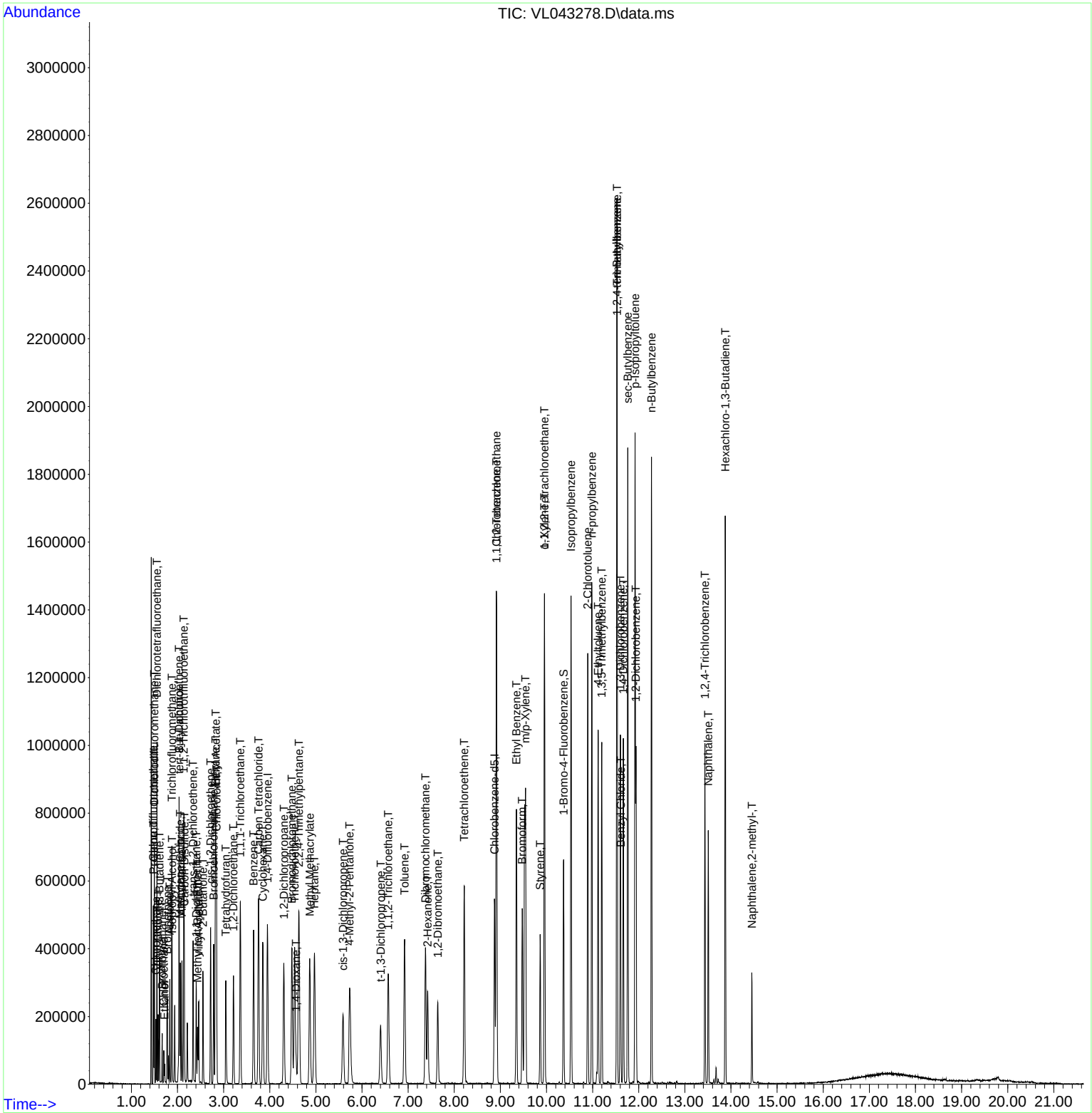
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043278.D
Acq On : 24 Nov 2025 12:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 24 23:38:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043278.D
Acq On : 24 Nov 2025 12:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 24 23:38:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	1.410	1.549	-9.9	118	0.00
3		Chlorodifluoromethane	1.387	1.445	-4.2	112	0.00
4		Chloromethane	0.527	0.534	-1.3	109	0.00
5	T	Vinyl Chloride	0.577	0.536	7.1	112	0.00
6	T	Bromomethane	0.280	0.266	5.0	107	0.00
7		Chloroethane	0.225	0.220	2.2	116	0.00
8	T	Dichlorotetrafluoroethane	1.173	1.287	-9.7	120	0.00
9	T	Propene	0.589	0.566	3.9	115	0.00
10	T	Heptane	1.753	1.593	9.1	101	0.00
11	T	Trichlorofluoromethane	1.367	1.643	-20.2	135	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.067	1.219	-14.2	126	0.00
13		Ethanol	0.207	0.167	19.3	102	0.00
14	T	Bromoethene	0.409	0.444	-8.6	125	0.00
15	T	Acetone	1.389	1.171	15.7	116	0.00
16	T	1,3-Butadiene	0.619	0.603	2.6	112	0.00
17		tert-Butyl alcohol	1.824	1.756	3.7	105	0.00
18	T	1,1-Dichloroethene	0.497	0.536	-7.8	124	0.00
19	T	Isopropyl Alcohol	0.785	0.708	9.8	106	0.00
20	T	Methylene Chloride	0.600	0.489	18.5	125	0.00
21	T	Allyl Chloride	0.935	0.827	11.6	99	0.00
22	T	trans-1,2-Dichloroethene	0.568	0.600	-5.6	122	0.00
23	T	Vinyl Acetate	1.677	1.515	9.7	95	0.00
24	T	1,1-Dichloroethane	1.096	1.177	-7.4	118	0.00
25	T	Ethyl Acetate	2.996	2.830	5.5	104	0.00
26	T	Hexane	1.314	1.279	2.7	106	0.00
27	T	Carbon Disulfide	1.341	1.501	-11.9	122	0.00
28	T	Methyl tert-Butyl Ether	0.645	0.650	-0.8	112	0.00
29	T	Chloroform	1.867	2.175	-16.5	124	0.00
30	T	Cyclohexane	1.101	1.079	2.0	107	0.00
31	T	cis-1,2-Dichloroethene	1.306	1.344	-2.9	110	0.00
32	T	1,1,1-Trichloroethane	1.990	2.235	-12.3	121	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
34	T	2-Butanone	0.706	0.701	0.7	106	0.00
35	T	Carbon Tetrachloride	0.759	0.912	-20.2	125	0.00
36	T	Benzene	0.958	1.018	-6.3	109	0.00
37	T	1,2-Dichloroethane	0.560	0.652	-16.4	119	0.00
38	T	Trichloroethene	0.375	0.406	-8.3	112	0.00
39	T	1,2-Dichloropropane	0.351	0.365	-4.0	106	0.00
40	T	1,4-Dioxane	0.158	0.137	13.3	94	0.00
41	T	Tetrahydrofuran	0.390	0.365	6.4	97	0.00
42	T	Bromodichloromethane	0.773	0.896	-15.9	117	0.00
43		Methyl Methacrylate	0.508	0.485	4.5	102	0.00
44	T	2,2,4-Trimethylpentane	1.645	1.686	-2.5	105	0.00
45	T	t-1,3-Dichloropropene	0.474	0.379	20.0	81	0.00
46	T	cis-1,3-Dichloropropene	0.556	0.466	16.2	85	0.00
47	T	1,1,2-Trichloroethane	0.372	0.409	-9.9	116	0.00
48	T	Dibromochloromethane	0.640	0.740	-15.6	116	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043278.D
Acq On : 24 Nov 2025 12:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 24 23:38:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	0.566	0.655	-15.7	115	0.00
50	T	4-Methyl-2-Pentanone	0.994	0.916	7.8	94	0.00
51	T	2-Hexanone	0.772	0.665	13.9	88	0.00
52	T	Tetrachloroethene	0.356	0.373	-4.8	110	0.00
53	T	Toluene	1.134	1.132	0.2	102	0.00
54	T	1,2-Dibromoethane	0.547	0.552	-0.9	102	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56		1,1,1,2-Tetrachloroethane	0.735	0.882	-20.0	119	0.00
57	T	Chlorobenzene	1.027	1.160	-13.0	110	0.00
58	T	Ethyl Benzene	1.925	2.087	-8.4	105	0.00
59	T	m/p-Xylene	1.543	1.711	-10.9	109	0.00
60	T	o-Xylene	1.542	1.735	-12.5	112	0.00
61	T	Styrene	0.675	0.662	1.9	94	0.00
62		Isopropylbenzene	2.758	3.083	-11.8	111	0.00
63	T	1,1,2,2-Tetrachloroethane	0.981	1.067	-8.8	110	0.00
64		n-propylbenzene	0.709	0.757	-6.8	106	0.00
65		tert-Butylbenzene	2.463	2.677	-8.7	110	0.00
66	T	Benzyl Chloride	0.250	0.129	48.4#	49	0.00
67		sec-Butylbenzene	3.438	3.757	-9.3	111	0.00
68	S	1-Bromo-4-Fluorobenzene	0.733	0.760	-3.7	95	0.00
69		p-Isopropyltoluene	2.912	3.094	-6.2	107	0.00
70		n-Butylbenzene	2.825	3.009	-6.5	104	0.00
71		2-Chlorotoluene	2.120	2.304	-8.7	108	0.00
72	T	4-Ethyltoluene	1.877	2.056	-9.5	108	0.00
73	T	1,3,5-Trimethylbenzene	1.575	1.732	-10.0	109	0.00
74	T	1,2,4-Trimethylbenzene	1.719	1.905	-10.8	113	0.00
75	T	1,3-Dichlorobenzene	1.003	1.125	-12.2	110	0.00
76	T	1,4-Dichlorobenzene	1.003	1.111	-10.8	108	0.00
77	T	1,2-Dichlorobenzene	0.965	1.074	-11.3	113	0.00
78	T	Hexachloro-1,3-Butadiene	0.805	0.843	-4.7	113	0.00
79	T	Naphthalene	1.527	1.581	-3.5	97	0.00
80	T	Naphthalene,2-methyl-	0.401	0.399	0.5	92	0.00
81	T	1,2,4-Trichlorobenzene	0.683	0.791	-15.8	107	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\VL112425\
Data File : VL043278.D
Acq On : 24 Nov 2025 12:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Nov 24 23:38:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	10.979	-9.8	118	0.00
3		Chlorodifluoromethane	10.000	10.414	-4.1	112	0.00
4		Chloromethane	10.000	10.121	-1.2	109	0.00
5	T	Vinyl Chloride	10.000	9.293	7.1	112	0.00
6	T	Bromomethane	10.000	9.512	4.9	107	0.00
7		Chloroethane	10.000	9.810	1.9	116	0.00
8	T	Dichlorotetrafluoroethane	10.000	10.965	-9.6	120	0.00
9	T	Propene	10.000	9.606	3.9	115	0.00
10	T	Heptane	10.000	9.087	9.1	101	0.00
11	T	Trichlorofluoromethane	10.000	12.025	-20.3	135	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	11.423	-14.2	126	0.00
13		Ethanol	10.000	8.067	19.3	102	0.00
14	T	Bromoethene	10.000	10.850	-8.5	125	0.00
15	T	Acetone	10.000	8.427	15.7	116	0.00
16	T	1,3-Butadiene	10.000	9.736	2.6	112	0.00
17		tert-Butyl alcohol	10.000	9.630	3.7	105	0.00
18	T	1,1-Dichloroethene	10.000	10.790	-7.9	124	0.00
19	T	Isopropyl Alcohol	10.000	9.023	9.8	106	0.00
20	T	Methylene Chloride	10.000	12.108	-21.1	125	0.00
21	T	Allyl Chloride	10.000	8.844	11.6	99	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.566	-5.7	122	0.00
23	T	Vinyl Acetate	10.000	9.030	9.7	95	0.00
24	T	1,1-Dichloroethane	10.000	10.739	-7.4	118	0.00
25	T	Ethyl Acetate	10.000	9.443	5.6	104	0.00
26	T	Hexane	10.000	9.738	2.6	106	0.00
27	T	Carbon Disulfide	10.000	11.192	-11.9	122	0.00
28	T	Methyl tert-Butyl Ether	10.000	10.075	-0.7	112	0.00
29	T	Chloroform	10.000	11.649	-16.5	124	0.00
30	T	Cyclohexane	10.000	9.793	2.1	107	0.00
31	T	cis-1,2-Dichloroethene	10.000	10.295	-2.9	110	0.00
32	T	1,1,1-Trichloroethane	10.000	11.230	-12.3	121	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	97	0.00
34	T	2-Butanone	10.000	9.925	0.7	106	0.00
35	T	Carbon Tetrachloride	10.000	12.019	-20.2	125	0.00
36	T	Benzene	10.000	10.634	-6.3	109	0.00
37	T	1,2-Dichloroethane	10.000	11.639	-16.4	119	0.00
38	T	Trichloroethene	10.000	10.832	-8.3	112	0.00
39	T	1,2-Dichloropropane	10.000	10.423	-4.2	106	0.00
40	T	1,4-Dioxane	10.000	8.722	12.8	94	0.00
41	T	Tetrahydrofuran	10.000	9.370	6.3	97	0.00
42	T	Bromodichloromethane	10.000	11.593	-15.9	117	0.00
43		Methyl Methacrylate	10.000	9.538	4.6	102	0.00
44	T	2,2,4-Trimethylpentane	10.000	10.248	-2.5	105	0.00
45	T	t-1,3-Dichloropropene	10.000	7.989	20.1	81	0.00
46	T	cis-1,3-Dichloropropene	10.000	8.383	16.2	85	0.00
47	T	1,1,2-Trichloroethane	10.000	11.001	-10.0	116	0.00
48	T	Dibromochloromethane	10.000	11.578	-15.8	116	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043278.D
Acq On : 24 Nov 2025 12:27
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: Nov 24 23:38:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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	11.557	-15.6	115	0.00
50	T	4-Methyl-2-Pentanone	10.000	9.209	7.9	94	0.00
51	T	2-Hexanone	10.000	8.608	13.9	88	0.00
52	T	Tetrachloroethene	10.000	10.460	-4.6	110	0.00
53	T	Toluene	10.000	9.979	0.2	102	0.00
54	T	1,2-Dibromoethane	10.000	10.090	-0.9	102	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	92	0.00
56		1,1,1,2-Tetrachloroethane	10.000	12.003	-20.0	119	0.00
57	T	Chlorobenzene	10.000	11.300	-13.0	110	0.00
58	T	Ethyl Benzene	10.000	10.843	-8.4	105	0.00
59	T	m/p-Xylene	20.000	22.175	-10.9	109	0.00
60	T	o-Xylene	10.000	11.257	-12.6	112	0.00
61	T	Styrene	10.000	9.812	1.9	94	0.00
62		Isopropylbenzene	10.000	11.180	-11.8	111	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	10.879	-8.8	110	0.00
64		n-propylbenzene	10.000	10.684	-6.8	106	0.00
65		tert-Butylbenzene	10.000	10.867	-8.7	110	0.00
66	T	Benzyl Chloride	10.000	5.163	48.4#	49	0.00
67		sec-Butylbenzene	10.000	10.929	-9.3	111	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.367	-3.7	95	0.00
69		p-Isopropyltoluene	10.000	10.623	-6.2	107	0.00
70		n-Butylbenzene	10.000	10.649	-6.5	104	0.00
71		2-Chlorotoluene	10.000	10.867	-8.7	108	0.00
72	T	4-Ethyltoluene	10.000	10.953	-9.5	108	0.00
73	T	1,3,5-Trimethylbenzene	10.000	10.992	-9.9	109	0.00
74	T	1,2,4-Trimethylbenzene	10.000	11.079	-10.8	113	0.00
75	T	1,3-Dichlorobenzene	10.000	11.217	-12.2	110	0.00
76	T	1,4-Dichlorobenzene	10.000	11.074	-10.7	108	0.00
77	T	1,2-Dichlorobenzene	10.000	11.136	-11.4	113	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	10.468	-4.7	113	0.00
79	T	Naphthalene	10.000	10.351	-3.5	97	0.00
80	T	Naphthalene,2-methyl-	10.000	9.947	0.5	92	0.00
81	T	1,2,4-Trichlorobenzene	10.000	11.579	-15.8	107	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\VL112425\
Data File : VL043279.D
Acq On : 24 Nov 2025 13:11
Operator : SY/MD
Sample : VL1124ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABL01

Quant Time: Nov 24 23:39:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

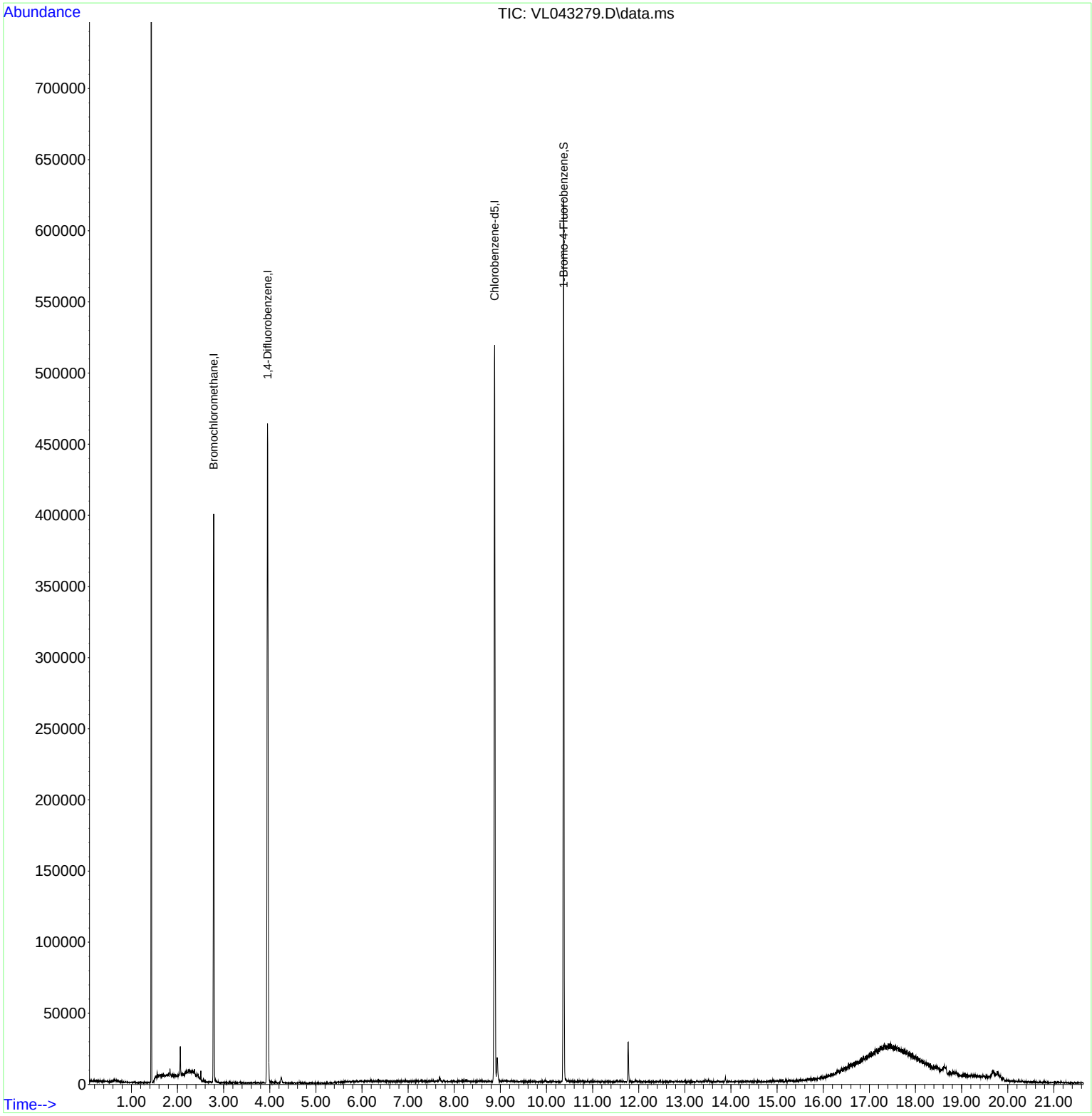
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	106137	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	277570	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	209566	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	151293	9.849	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.500%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043279.D
Acq On : 24 Nov 2025 13:11
Operator : SY/MD
Sample : VL1124ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABL01

Quant Time: Nov 24 23:39:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043280.D
Acq On : 24 Nov 2025 13:52
Operator : SY/MD
Sample : VL1124ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 24 23:39:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	105147	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	272854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	221036	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	164851	10.175	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	162546	10.960	ppbv	99
3) Chlorodifluoromethane	1.476	51	149762	10.268	ppbv	95
4) Chloromethane	1.531	50	55864	10.075	ppbv	96
5) Vinyl Chloride	1.580	62	57122	9.420	ppbv	98
6) Bromomethane	1.667	94	28296	9.626	ppbv	98
7) Chloroethane	1.703	64	22649	9.590	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	135608	10.992	ppbv	98
9) Propene	1.483	41	58566m	9.456	ppbv	
10) Heptane	4.969	43	170817	9.267	ppbv	99
11) Trichlorofluoromethane	1.875	101	169809	11.818	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	132086	11.775	ppbv	99
13) Ethanol	1.719	45	17266	7.928	ppbv	97
14) Bromoethene	1.781	108	46318	10.771	ppbv	98
15) Acetone	1.832	43	126744	8.676	ppbv	98
16) 1,3-Butadiene	1.609	39	64230	9.862	ppbv	96
17) tert-Butyl alcohol	2.036	59	179940	9.384	ppbv	100
18) 1,1-Dichloroethene	2.030	96	55652	10.655	ppbv	92
19) Isopropyl Alcohol	1.884	45	71853	8.704	ppbv	92
20) Methylene Chloride	2.059	84	50105	11.780	ppbv	91
21) Allyl Chloride	2.095	41	88132	8.967	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	64065	10.731	ppbv	98
23) Vinyl Acetate	2.457	43	171121	9.703	ppbv #	99
24) 1,1-Dichloroethane	2.405	63	124688	10.820	ppbv	98
25) Ethyl Acetate	2.826	43	301985	9.585	ppbv	99
26) Hexane	2.820	57	135935	9.841	ppbv	99
27) Carbon Disulfide	2.146	76	158318	11.226	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	75424	11.124	ppbv	95
29) Chloroform	2.842	83	228576	11.642	ppbv	98
30) Cyclohexane	3.852	84	116565	10.065	ppbv	93
31) cis-1,2-Dichloroethene	2.716	61	143211	10.430	ppbv	98
32) 1,1,1-Trichloroethane	3.360	97	235081	11.233	ppbv	99
34) 2-Butanone	2.551	43	193105	10.026	ppbv	99
35) Carbon Tetrachloride	3.755	117	246117	11.883	ppbv	99
36) Benzene	3.648	78	279506	10.697	ppbv	98
37) 1,2-Dichloroethane	3.211	62	178873	11.703	ppbv	98
38) Trichloroethene	4.538	130	112238	10.979	ppbv	96
39) 1,2-Dichloropropane	4.302	63	101403	10.603	ppbv	93
40) 1,4-Dioxane	4.564	88	38115	8.866	ppbv #	94
41) Tetrahydrofuran	3.043	42	103010	9.685	ppbv	98
42) Bromodichloromethane	4.477	83	246932	11.712	ppbv	95
43) Methyl Methacrylate	4.868	69	132570	9.558	ppbv	96
44) 2,2,4-Trimethylpentane	4.632	57	459765	10.245	ppbv	99
45) t-1,3-Dichloropropene	6.403	75	103648	8.017	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043280.D
Acq On : 24 Nov 2025 13:52
Operator : SY/MD
Sample : VL1124ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 24 23:39:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.584	75	125652	8.277	ppbv		94
47) 1,1,2-Trichloroethane	6.568	97	111403	10.976	ppbv		92
48) Dibromochloromethane	7.377	129	203117	11.640	ppbv		98
49) Bromoform	9.474	173	179808	11.633	ppbv		99
50) 4-Methyl-2-Pentanone	5.729	43	257888	9.505	ppbv		98
51) 2-Hexanone	7.422	43	184928	8.777	ppbv	#	98
52) Tetrachloroethene	8.212	164	102674	10.563	ppbv		94
53) Toluene	6.920	91	315386	10.193	ppbv		99
54) 1,2-Dibromoethane	7.642	107	154824	10.366	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.914	131	190059	11.700	ppbv		98
57) Chlorobenzene	8.914	112	250652	11.045	ppbv		98
58) Ethyl Benzene	9.348	91	451322	10.609	ppbv		98
59) m/p-Xylene	9.523	91	743261m	21.791	ppbv		
60) o-Xylene	9.956	91	367807	10.794	ppbv		99
61) Styrene	9.863	104	142907	9.583	ppbv		99
62) Isopropylbenzene	10.533	105	669597	10.984	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.953	83	227409	10.489	ppbv		99
64) n-propylbenzene	10.982	120	167620	10.701	ppbv		99
65) tert-Butylbenzene	11.523	119	573049	10.526	ppbv		99
66) Benzyl Chloride	11.610	91	25332	4.585	ppbv		99
67) sec-Butylbenzene	11.759	105	802399	10.559	ppbv		99
69) p-Isopropyltoluene	11.918	119	666208	10.349	ppbv		100
70) n-Butylbenzene	12.274	91	653544	10.465	ppbv		99
71) 2-Chlorotoluene	10.895	91	492497	10.511	ppbv		100
72) 4-Ethyltoluene	11.118	105	448275	10.803	ppbv		98
73) 1,3,5-Trimethylbenzene	11.196	105	372510	10.697	ppbv		96
74) 1,2,4-Trimethylbenzene	11.529	105	413769	10.888	ppbv		96
75) 1,3-Dichlorobenzene	11.601	146	239632	10.806	ppbv		97
76) 1,4-Dichlorobenzene	11.665	146	239094	10.779	ppbv		98
77) 1,2-Dichlorobenzene	11.940	146	227478	10.669	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	183653	10.321	ppbv		99
79) Naphthalene	13.507	128	340028	10.074	ppbv		100
80) Naphthalene,2-methyl-	14.452	142	83577	9.433	ppbv		100
81) 1,2,4-Trichlorobenzene	13.433	180	167890	11.122	ppbv		99

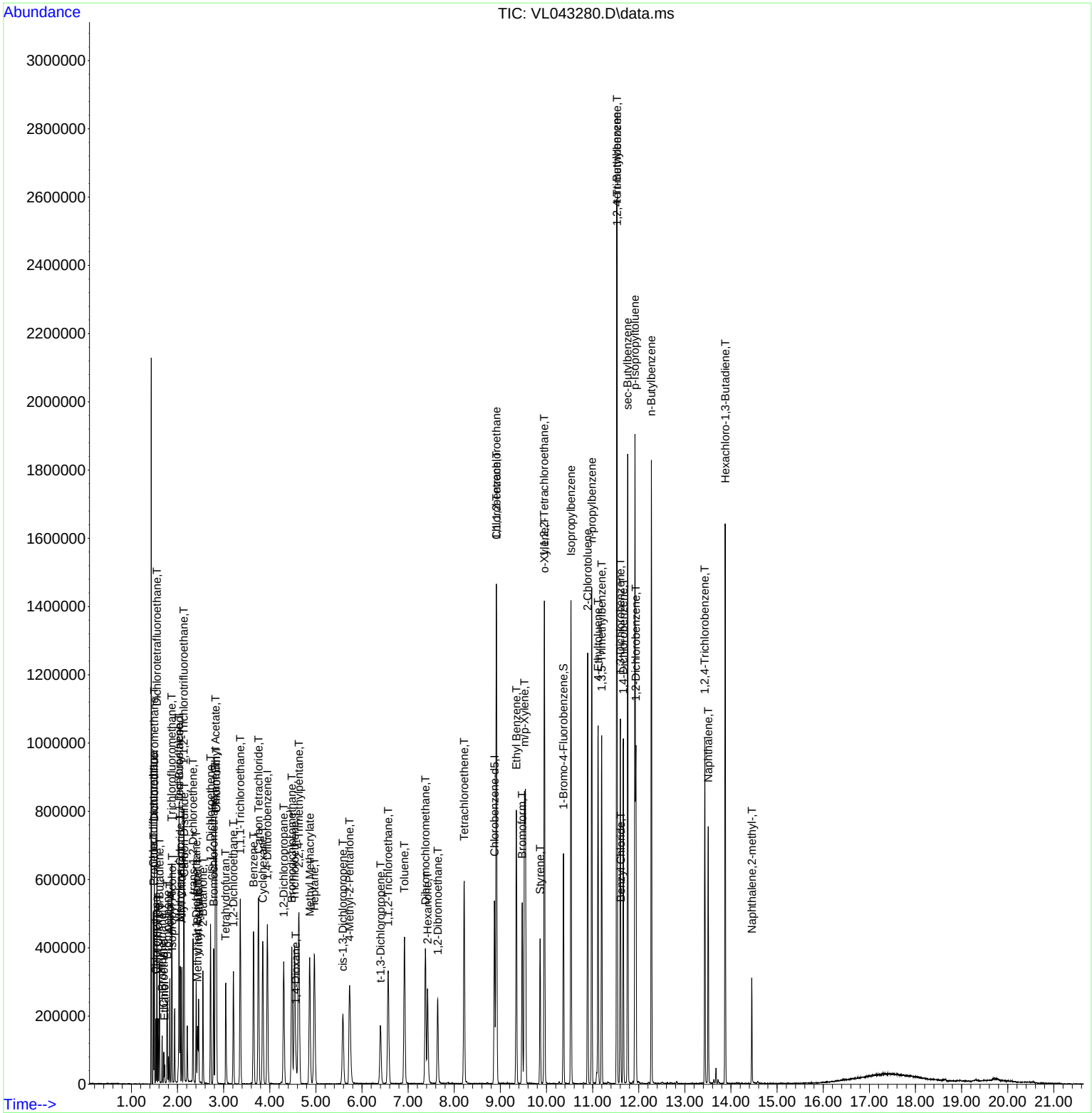
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043280.D
Acq On : 24 Nov 2025 13:52
Operator : SY/MD
Sample : VL1124ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 24 23:39:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL1124ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043290.D
Acq On : 25 Nov 2025 08:21
Operator : SY/MD
Sample : QC112425 CAN 10315
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC112425 CAN 10315

Quant Time: Nov 26 00:10:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

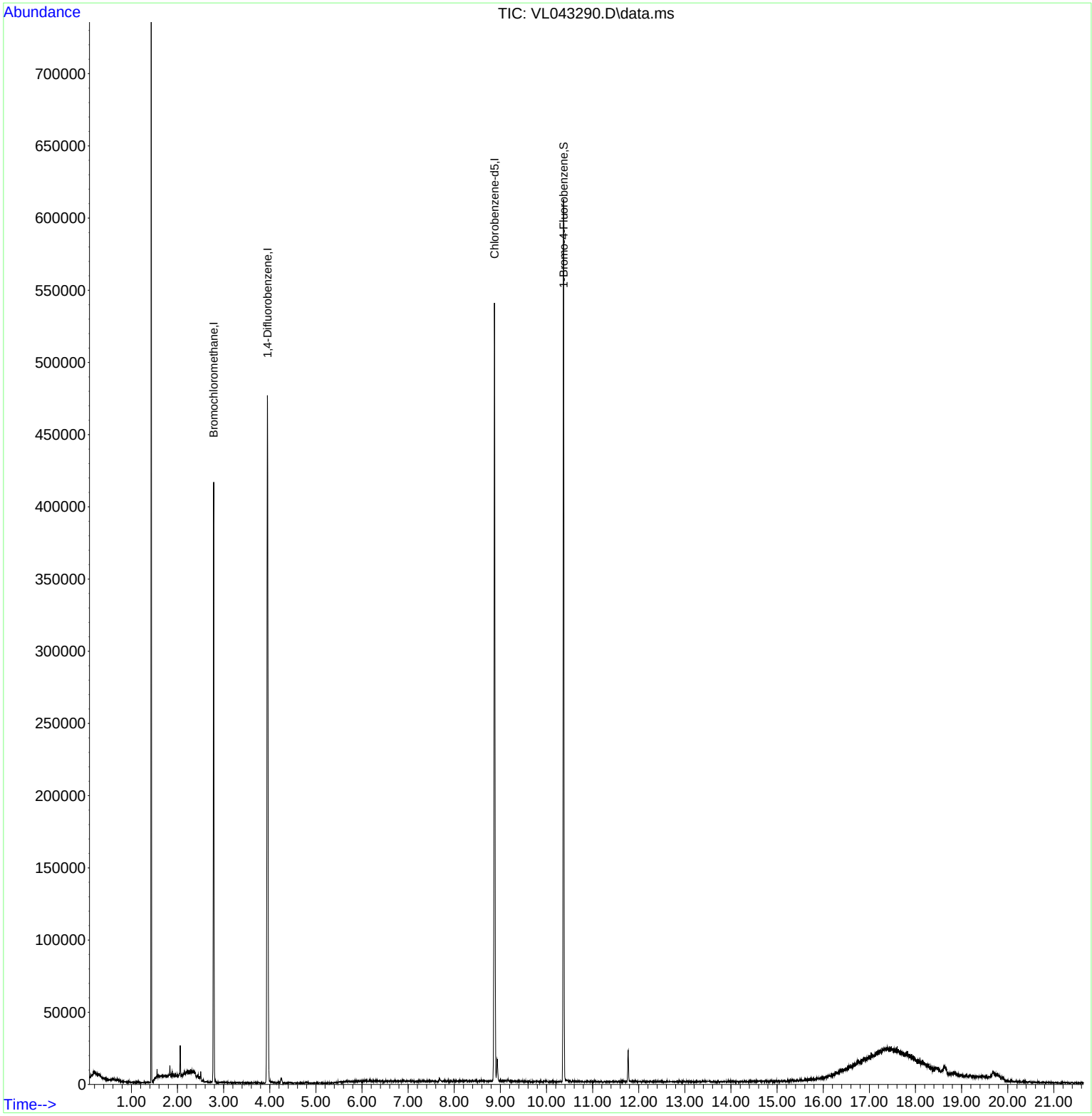
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	109733	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	274585	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	212841	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	147790	9.473	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 94.700%			
Target Compounds						Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043290.D
Acq On : 25 Nov 2025 08:21
Operator : SY/MD
Sample : QC112425 CAN 10315
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC112425 CAN 10315

Quant Time: Nov 26 00:10:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 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 # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM				
SubDirectory	VL111825	HP Acquire Method	TO15AIR		HP Processing Method	VL111825AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2691
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2691
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043202.D	18 Nov 2025 08:46	SY/MD	Ok
2	VSTDICC0.5	VL043203.D	18 Nov 2025 09:29	SY/MD	Ok,M
3	VSTDICCC010	VL043204.D	18 Nov 2025 10:02	SY/MD	Ok,M
4	VSTDICC002	VL043205.D	18 Nov 2025 10:37	SY/MD	Ok,M
5	VSTDICC001	VL043206.D	18 Nov 2025 11:10	SY/MD	Ok,M
6	VSTDICC0.5	VL043207.D	18 Nov 2025 11:43	SY/MD	Not Ok
7	VSTDICC0.1	VL043208.D	18 Nov 2025 12:16	SY/MD	Ok,M
8	VSTDICC0.03	VL043209.D	18 Nov 2025 12:49	SY/MD	Ok,M
9	VSTDICC015	VL043210.D	18 Nov 2025 13:24	SY/MD	Ok,M
10	VSTDICV010	VL043211.D	18 Nov 2025 13:56	SY/MD	Ok,M
11	VL1118ABL01	VL043212.D	18 Nov 2025 14:41	SY/MD	Ok
12	VL1118ABS01	VL043213.D	18 Nov 2025 15:24	SY/MD	Ok,M
13	Q3651-03	VL043214.D	18 Nov 2025 15:57	SY/MD	Dilution
14	Q3651-03DUP	VL043215.D	18 Nov 2025 16:31	SY/MD	Ok,M
15	Q3651-04	VL043216.D	18 Nov 2025 17:06	SY/MD	Dilution
16	Q3651-06	VL043217.D	18 Nov 2025 17:40	SY/MD	Dilution
17	Q3650-03	VL043218.D	18 Nov 2025 18:15	SY/MD	Ok,M
18	Q3650-04	VL043219.D	18 Nov 2025 18:49	SY/MD	Ok,M
19	Q3650-05	VL043220.D	18 Nov 2025 19:23	SY/MD	Ok,M
20	Q3650-06	VL043221.D	18 Nov 2025 19:58	SY/MD	Ok,M
21	Q3651-01	VL043222.D	18 Nov 2025 20:29	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 # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM				
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2691
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2691
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3651-02	VL043223.D	18 Nov 2025 21:01	SY/MD	Ok,M
23	Q3651-05	VL043224.D	18 Nov 2025 21:33	SY/MD	Ok,M
24	Q3650-01	VL043225.D	18 Nov 2025 22:05	SY/MD	Ok,M
25	Q3650-02	VL043226.D	18 Nov 2025 22:37	SY/MD	Ok,M
26	Q3651-03DL	VL043227.D	18 Nov 2025 23:09	SY/MD	Ok,M
27	Q3651-03DL	VL043228.D	18 Nov 2025 23:41	SY/MD	Not Ok
28	Q3651-04DL	VL043229.D	19 Nov 2025 00:13	SY/MD	Ok,M
29	Q3651-06DL	VL043230.D	19 Nov 2025 00:44	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL112025

Review By	Amit Patel	Review On	11/21/2025 11:53:43 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/21/2025 12:23:05 PM				
SubDirectory	VL112025	HP Acquire Method	TO15AIR		HP Processing Method	VL111825AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2691
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2691
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043256.D	20 Nov 2025 08:41	SY/MD	Ok
2	VSTDCCC010	VL043257.D	20 Nov 2025 10:14	SY/MD	Ok,M
3	VL1120ABL01	VL043258.D	20 Nov 2025 11:01	SY/MD	Ok
4	QC111725 CAN 10588	VL043259.D	20 Nov 2025 11:34	SY/MD	Ok
5	VL1120ABS01	VL043260.D	20 Nov 2025 12:07	SY/MD	Ok,M
6	Q3655-01	VL043261.D	20 Nov 2025 12:49	SY/MD	Ok,M
7	Q3655-02	VL043262.D	20 Nov 2025 13:24	SY/MD	Dilution
8	Q3655-03	VL043263.D	20 Nov 2025 13:58	SY/MD	Dilution
9	Q3655-04	VL043264.D	20 Nov 2025 14:32	SY/MD	Ok,M
10	Q3655-05	VL043265.D	20 Nov 2025 15:06	SY/MD	Ok,M
11	Q3655-06	VL043266.D	20 Nov 2025 15:40	SY/MD	Ok,M
12	Q3655-01DUP	VL043267.D	20 Nov 2025 16:20	SY/MD	Ok,M
13	Q3655-02DL	VL043268.D	20 Nov 2025 16:54	SY/MD	Ok,M
14	Q3655-03DL	VL043269.D	20 Nov 2025 17:27	SY/MD	Ok,M
15	Q3698-03	VL043270.D	20 Nov 2025 18:02	SY/MD	Dilution
16	Q3698-04	VL043271.D	20 Nov 2025 18:38	SY/MD	Ok,M
17	Q3698-01	VL043272.D	20 Nov 2025 19:11	SY/MD	Ok,M
18	Q3698-02	VL043273.D	20 Nov 2025 19:44	SY/MD	Ok,M
19	Q3698-03DL	VL043274.D	20 Nov 2025 20:43	SY/MD	Ok,M
20	Q3626-09DL	VL043275.D	21 Nov 2025 07:53	SY/MD	Ok,M
21	Q3698-04DUP	VL043276.D	21 Nov 2025 08:28	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL112425

Review By	Semsettin Yesilyurt	Review On	11/25/2025 7:23:41 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/25/2025 8:00:09 AM				
SubDirectory	VL112425	HP Acquire Method	TO15AIR		HP Processing Method	VL111825AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2691
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2691
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043277.D	24 Nov 2025 08:53	SY/MD	Ok
2	VSTDCCC010	VL043278.D	24 Nov 2025 12:27	SY/MD	Ok,M
3	VL1124ABL01	VL043279.D	24 Nov 2025 13:11	SY/MD	Ok
4	VL1124ABS01	VL043280.D	24 Nov 2025 13:52	SY/MD	Ok,M
5	Q3696-02	VL043281.D	24 Nov 2025 14:26	SY/MD	Ok,M
6	Q3696-02DUP	VL043282.D	24 Nov 2025 15:00	SY/MD	Ok,M
7	Q3696-04	VL043283.D	24 Nov 2025 15:35	SY/MD	Ok,M
8	Q3696-06	VL043284.D	24 Nov 2025 16:09	SY/MD	Ok,M
9	Q3696-07	VL043285.D	24 Nov 2025 16:43	SY/MD	Ok,M
10	Q3696-01	VL043286.D	24 Nov 2025 17:15	SY/MD	Ok,M
11	Q3696-03	VL043287.D	24 Nov 2025 17:47	SY/MD	Ok,M
12	Q3696-05	VL043288.D	24 Nov 2025 18:20	SY/MD	Ok,M
13	Q3696-01DL	VL043289.D	24 Nov 2025 20:07	SY/MD	Not Ok
14	QC112425 CAN 10315	VL043290.D	25 Nov 2025 08:21	SY/MD	Ok

M : Manual Integration

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043203.D
Acq On : 18 Nov 2025 09:29
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Nov 19 00:48:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	110490	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	296493	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	247761	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	180529	9.941	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	7723	0.496	ppbv		99
3) Chlorodifluoromethane	1.473	51	8538	0.557	ppbv	#	82
4) Chloromethane	1.531	50	2881	0.494	ppbv		94
5) Vinyl Chloride	1.580	62	2947	0.462	ppbv	#	87
6) Bromomethane	1.667	94	1656	0.536	ppbv		97
7) Chloroethane	1.703	64	1357	0.547	ppbv		100
8) Dichlorotetrafluoroethane	1.554	85	6386	0.493	ppbv		100
9) Propene	1.483	41	3739	0.526	ppbv	#	1
10) Heptane	4.972	43	5844	0.300	ppbv	#	28
11) Trichlorofluoromethane	1.878	101	6841	0.453	ppbv		92
12) 1,1,2-Trichlorotrifluo...	2.140	101	5863	0.497	ppbv		99
13) Ethanol	1.719	45	1190	0.520	ppbv		64
14) Bromoethene	1.781	108	2476	0.548	ppbv	#	75
15) Acetone	1.836	43	9506	0.619	ppbv	#	88
16) 1,3-Butadiene	1.606	39	4115	0.601	ppbv		95
17) tert-Butyl alcohol	2.043	59	9854	0.489	ppbv	#	68
18) 1,1-Dichloroethene	2.033	96	3068	0.559	ppbv		96
19) Isopropyl Alcohol	1.887	45	4687	0.540	ppbv	#	51
20) Methylene Chloride	2.059	84	5006	0.349	ppbv		92
21) Allyl Chloride	2.095	41	6291	0.609	ppbv		95
22) trans-1,2-Dichloroethene	2.337	96	3343	0.533	ppbv		80
23) Vinyl Acetate	2.464	43	10414	0.562	ppbv	#	92
24) 1,1-Dichloroethane	2.409	63	5803	0.479	ppbv	#	96
25) Ethyl Acetate	2.839	43	13478	0.406	ppbv	#	84
26) Hexane	2.823	57	7589	0.523	ppbv	#	91
27) Carbon Disulfide	2.150	76	7198	0.486	ppbv	#	1
28) Methyl tert-Butyl Ether	2.441	73	3545	0.498	ppbv	#	15
29) Chloroform	2.849	83	10800	0.523	ppbv		95
30) Cyclohexane	3.849	84	6271	0.515	ppbv		85
31) cis-1,2-Dichloroethene	2.719	61	7728	0.536	ppbv		87
32) 1,1,1-Trichloroethane	3.363	97	10886	0.490	ppbv		98
34) 2-Butanone	2.557	43	11026	0.527	ppbv		95
35) Carbon Tetrachloride	3.761	117	11551	0.513	ppbv		94
36) Benzene	3.655	78	14759	0.520	ppbv	#	91
37) 1,2-Dichloroethane	3.218	62	8477	0.510	ppbv	#	93
38) Trichloroethene	4.542	130	5775	0.519	ppbv	#	87
39) 1,2-Dichloropropane	4.312	63	5510	0.530	ppbv	#	80
40) 1,4-Dioxane	4.597	88	1334	0.286	ppbv	#	40
41) Tetrahydrofuran	3.059	42	6193	0.536	ppbv		95
42) Bromodichloromethane	4.490	83	11597	0.506	ppbv	#	84
43) Methyl Methacrylate	4.865	69	2151	0.143	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.642	57	25890	0.531	ppbv		95
45) t-1,3-Dichloropropene	6.412	75	7343	0.523	ppbv		94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043203.D
Acq On : 18 Nov 2025 09:29
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Nov 19 00:48:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

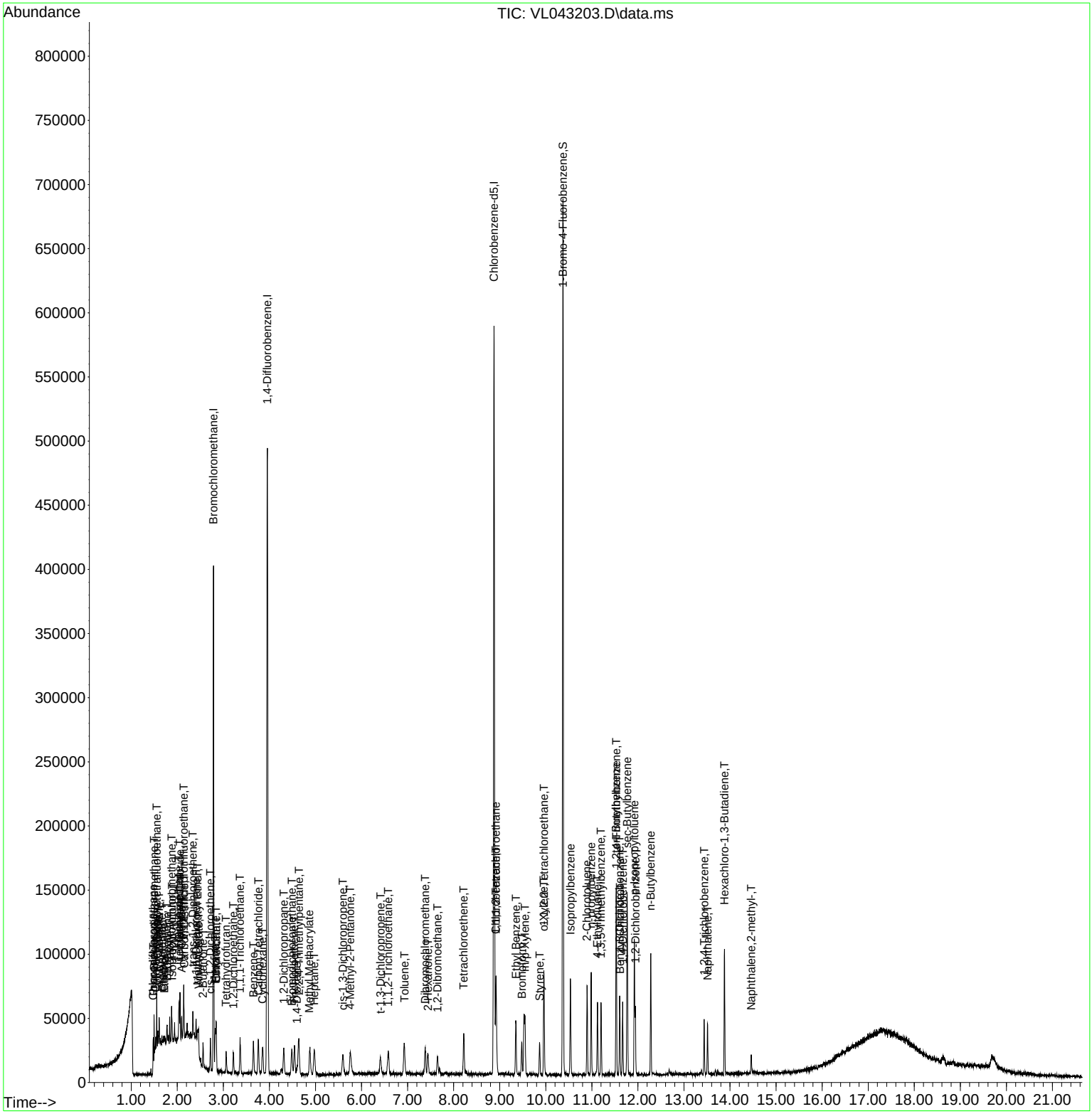
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	7004	0.425	ppbv #	87
47) 1,1,2-Trichloroethane	6.581	97	3211	0.290	ppbv #	64
48) Dibromochloromethane	7.380	129	9327	0.492	ppbv	97
49) Bromoform	9.481	173	8636	0.514	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	15190	0.515	ppbv	92
51) 2-Hexanone	7.442	43	11594	0.506	ppbv #	93
52) Tetrachloroethene	8.218	164	5097	0.483	ppbv #	82
53) Toluene	6.933	91	6863	0.203	ppbv #	21
54) 1,2-Dibromoethane	7.649	107	8708	0.537	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.917	131	5419	0.298	ppbv #	34
57) Chlorobenzene	8.917	112	12818	0.504	ppbv	98
58) Ethyl Benzene	9.351	91	23866	0.500	ppbv	96
59) m/p-Xylene	9.549	91	19470	0.507	ppbv #	24
60) o-Xylene	9.956	91	19621	0.514	ppbv	100
61) Styrene	9.869	104	8287	0.496	ppbv	96
62) Isopropylbenzene	10.536	105	34773	0.509	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	12591	0.519	ppbv	100
64) n-propylbenzene	10.986	120	8945	0.509	ppbv	100
65) tert-Butylbenzene	11.526	119	31998	0.524	ppbv	99
66) Benzyl Chloride	11.610	91	3403	0.550	ppbv	98
67) sec-Butylbenzene	11.766	105	44448	0.522	ppbv	97
69) p-Isopropyltoluene	11.921	119	37087	0.514	ppbv	100
70) n-Butylbenzene	12.277	91	33153	0.474	ppbv	94
71) 2-Chlorotoluene	10.895	91	27224	0.518	ppbv	99
72) 4-Ethyltoluene	11.122	105	23963	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.199	105	20104	0.515	ppbv	99
74) 1,2,4-Trimethylbenzene	11.533	105	22254	0.522	ppbv	91
75) 1,3-Dichlorobenzene	11.604	146	12926	0.520	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	13076	0.526	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	12069	0.505	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	10578	0.530	ppbv	98
79) Naphthalene	13.513	128	18377	0.486	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	4917	0.495	ppbv	91
81) 1,2,4-Trichlorobenzene	13.439	180	6798	0.402	ppbv	97

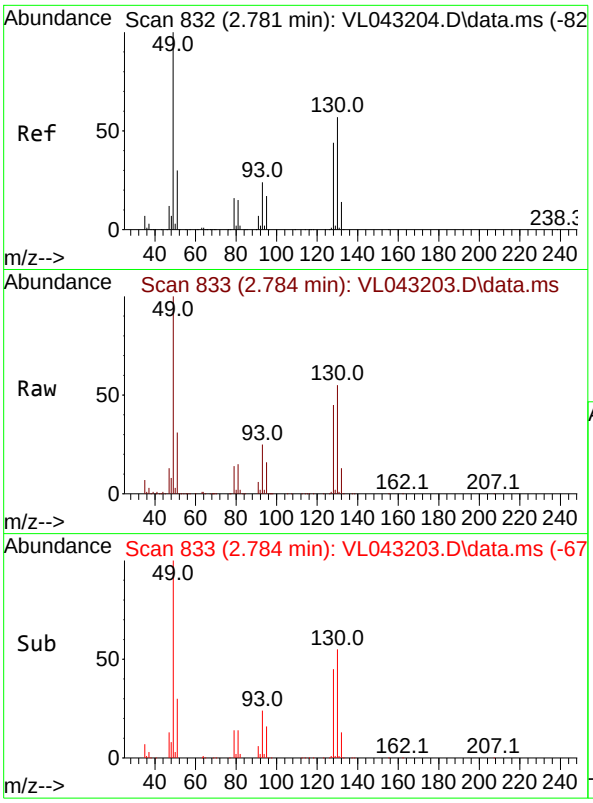
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043203.D
Acq On : 18 Nov 2025 09:29
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Nov 19 00:48:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration



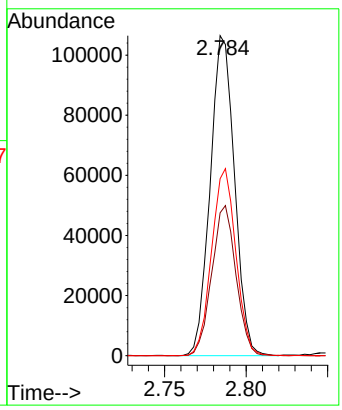


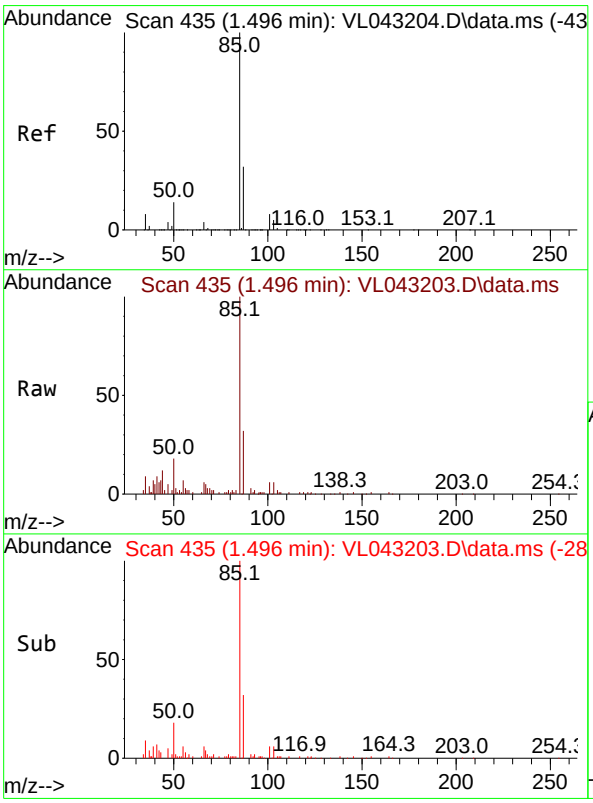
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 49 Resp: 110490

Ion	Ratio	Lower	Upper
49	100		
128	46.6	23.0	69.0
130	58.4	29.9	89.7

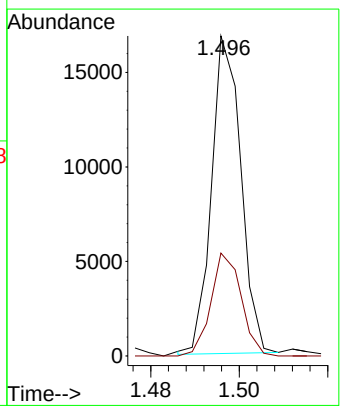


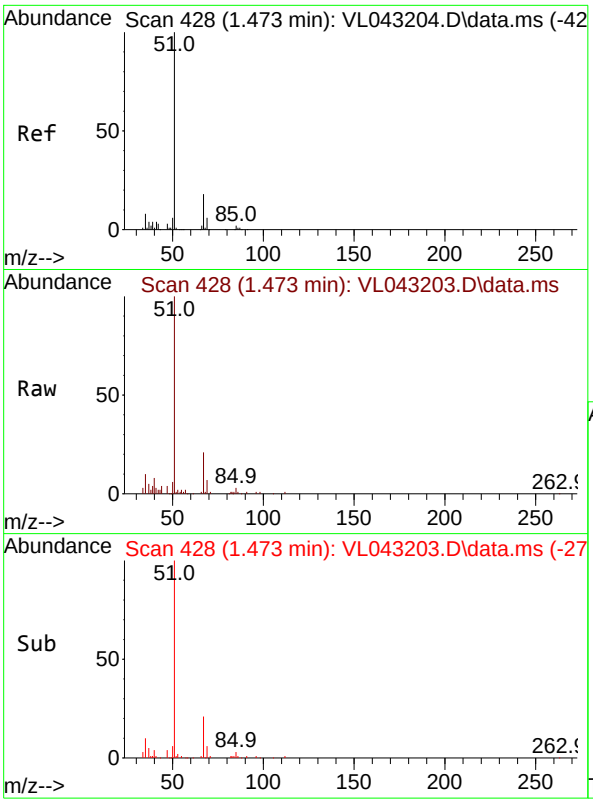


#2
Dichlorodifluoromethane
Concen: 0.496 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 85 Resp: 7723

Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.4	38.2



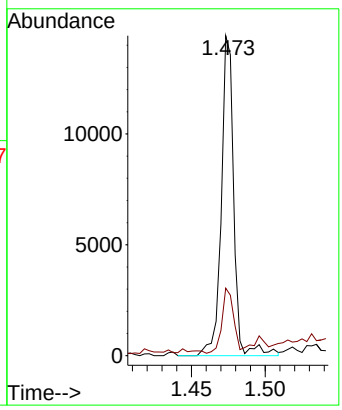


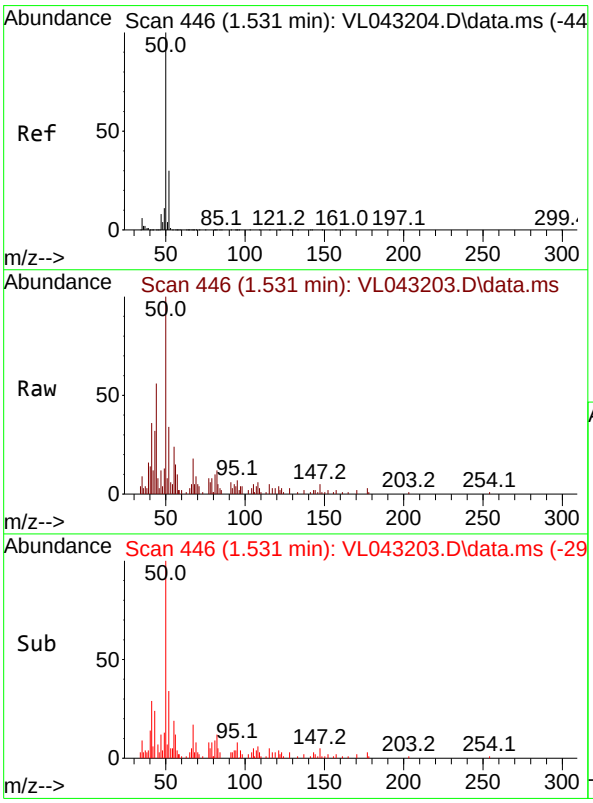
#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 8538

Ion	Ratio	Lower	Upper
51	100		
67	26.4	14.9	22.3#

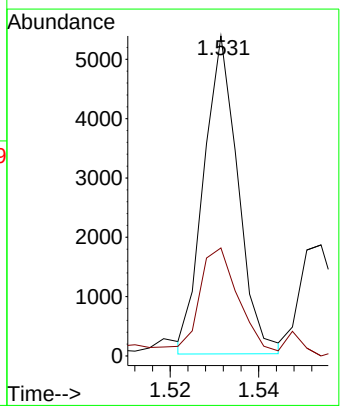


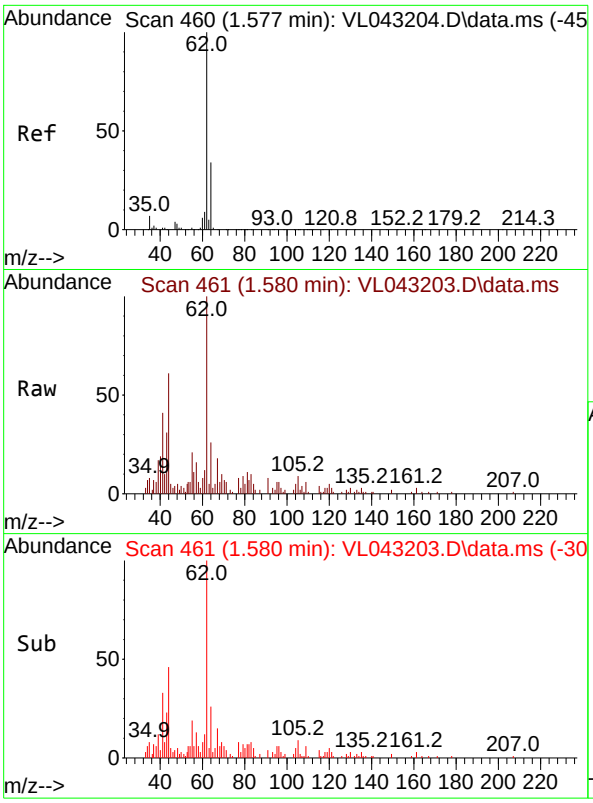


#4
Chloromethane
Concen: 0.494 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 50 Resp: 2881

Ion	Ratio	Lower	Upper
50	100		
52	33.5	24.1	36.1



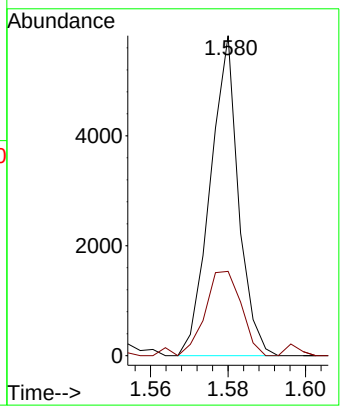


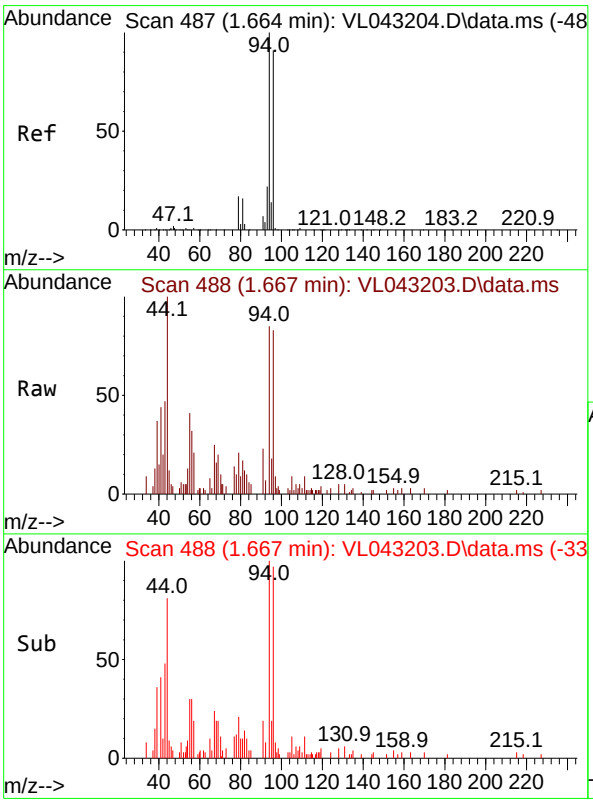
#5
Vinyl Chloride
Concen: 0.462 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 2947

Ion	Ratio	Lower	Upper
62	100		
64	26.4	27.3	40.9#

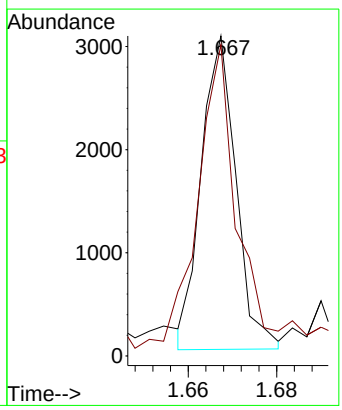


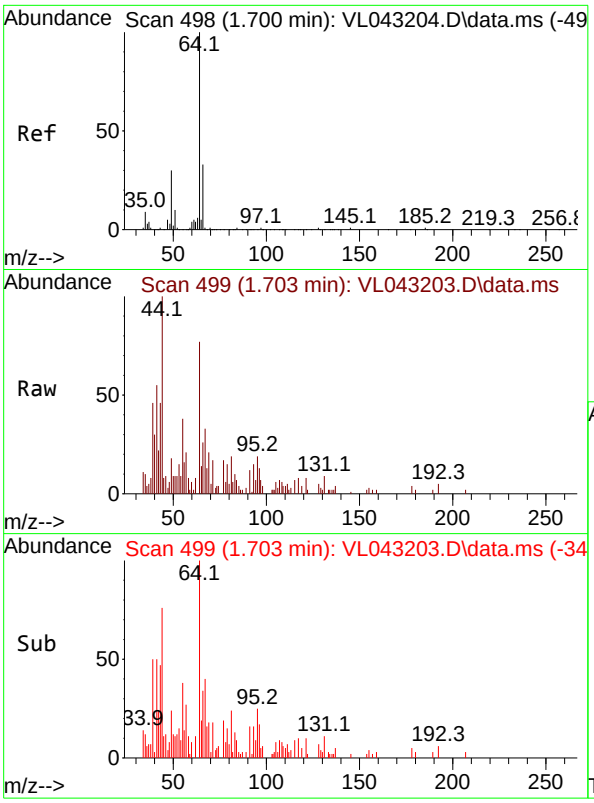


#6
Bromomethane
Concen: 0.536 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 94 Resp: 1656

Ion	Ratio	Lower	Upper
94	100		
96	93.9	72.9	109.3



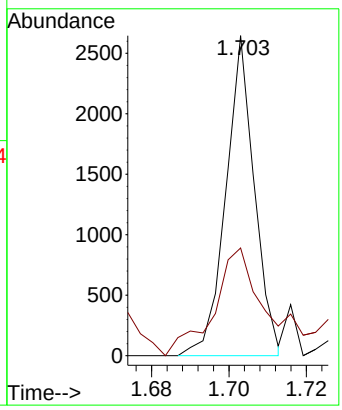


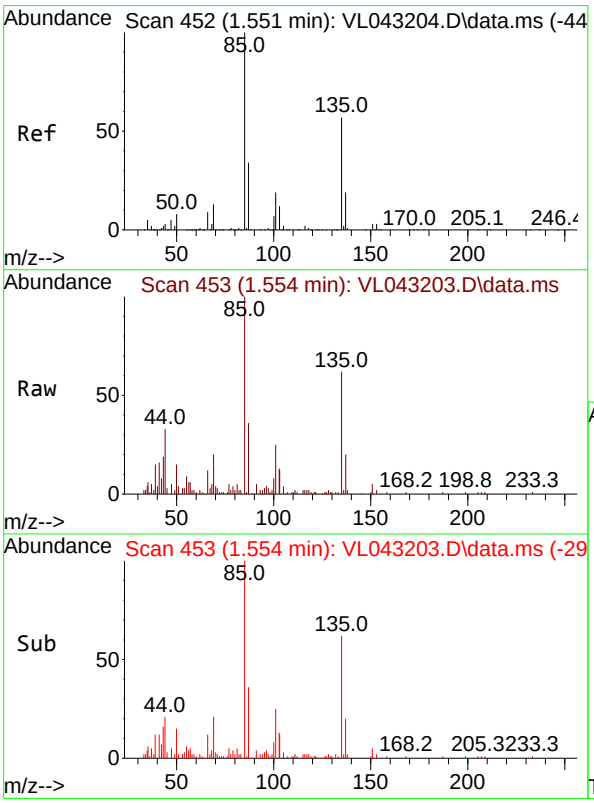
#7
Chloroethane
Concen: 0.547 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 64 Resp: 1357

Ion	Ratio	Lower	Upper
64	100		
66	33.7	26.8	40.2

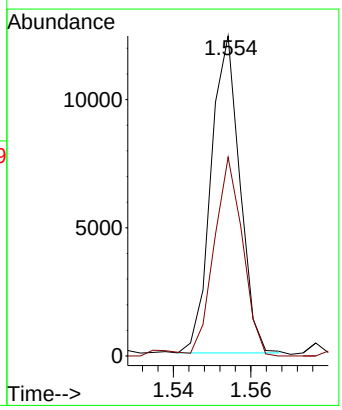


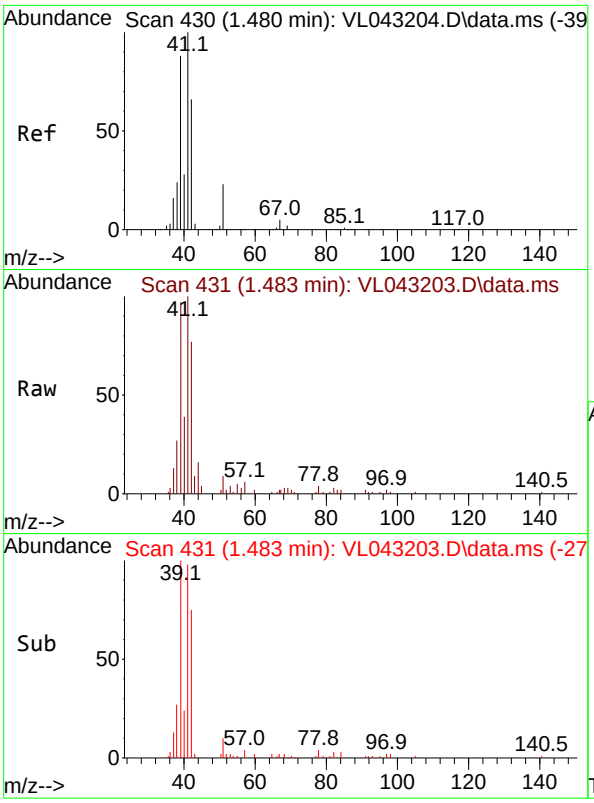


#8
Dichlorotetrafluoroethane
Concen: 0.493 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 85 Resp: 6386

Ion	Ratio	Lower	Upper
85	100		
135	65.8	52.6	79.0



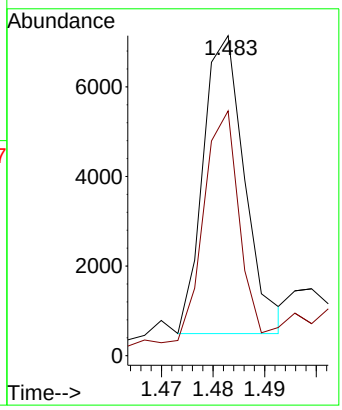


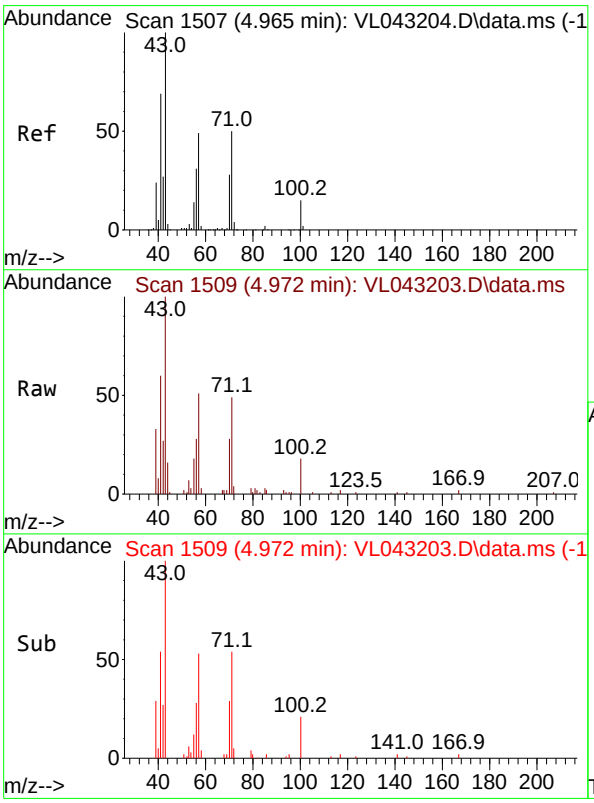
#9
Propene
Concen: 0.526 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 3739

Ion	Ratio	Lower	Upper
41	100		
42	121.9	3.7	5.5#

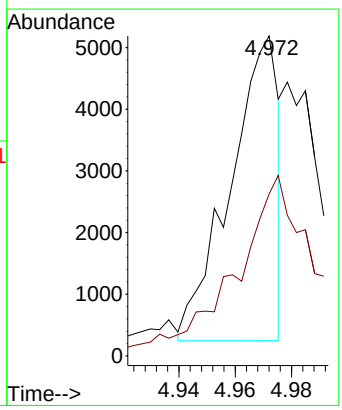


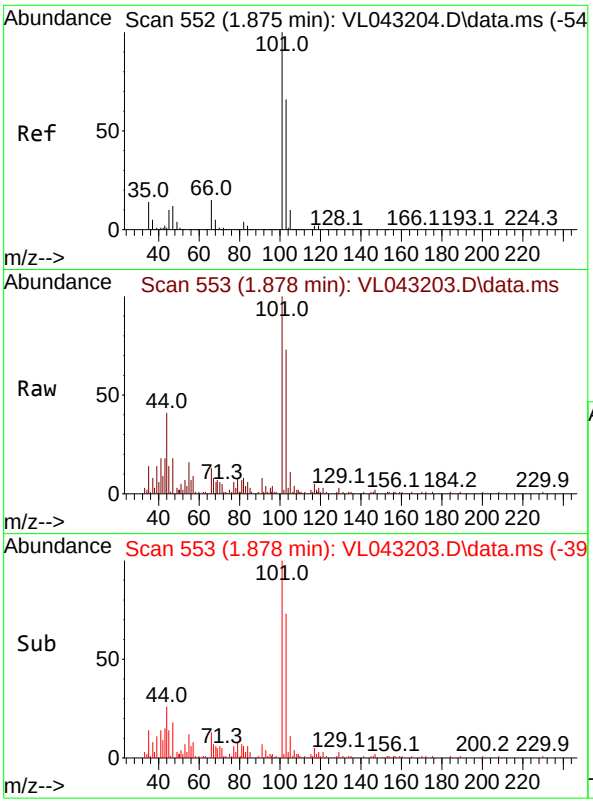


#10
Heptane
Concen: 0.300 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 5844

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#



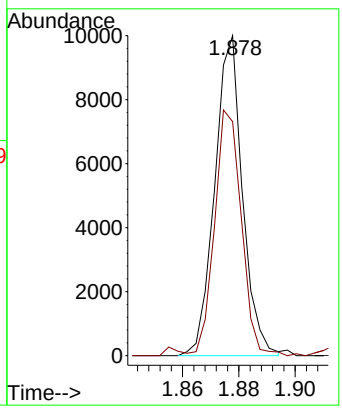


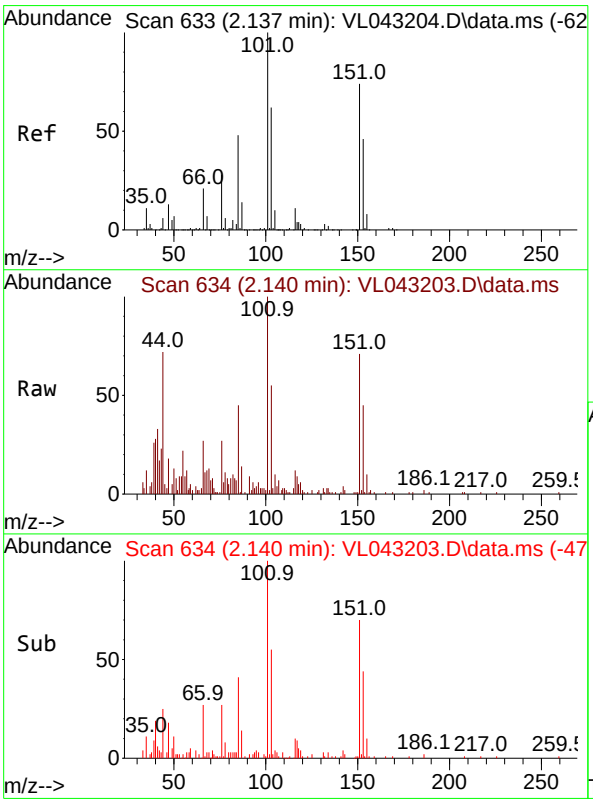
#11
Trichlorofluoromethane
Concen: 0.453 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:101 Resp: 6841

Ion	Ratio	Lower	Upper
101	100		
103	71.8	52.6	79.0

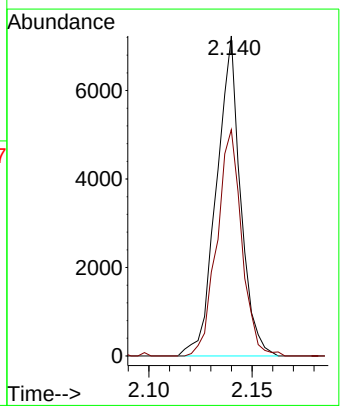


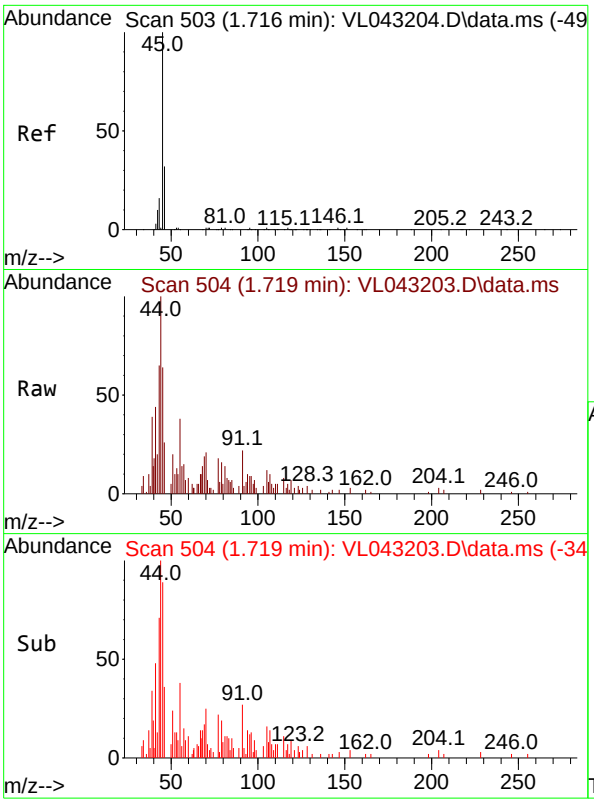


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.497 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:101 Resp: 5863

Ion	Ratio	Lower	Upper
101	100		
151	72.8	59.2	88.8



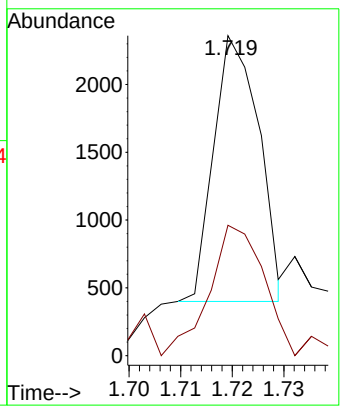


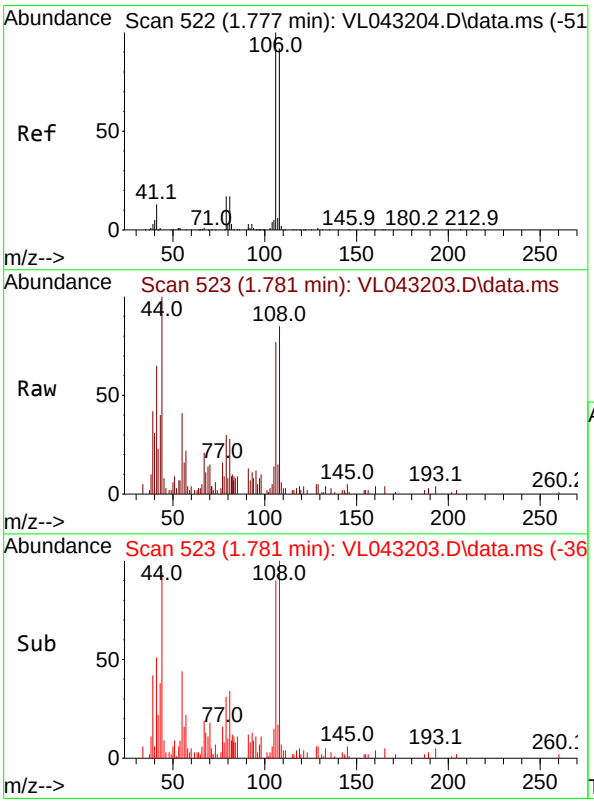
#13
Ethanol
Concen: 0.520 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 1190

Ion	Ratio	Lower	Upper
45	100		
46	58.7	15.0	59.8

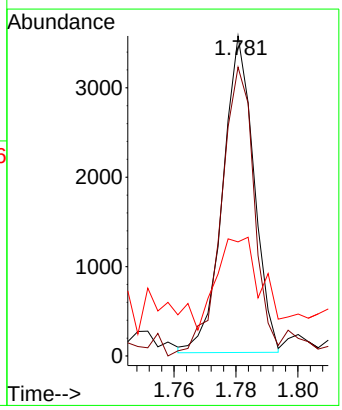


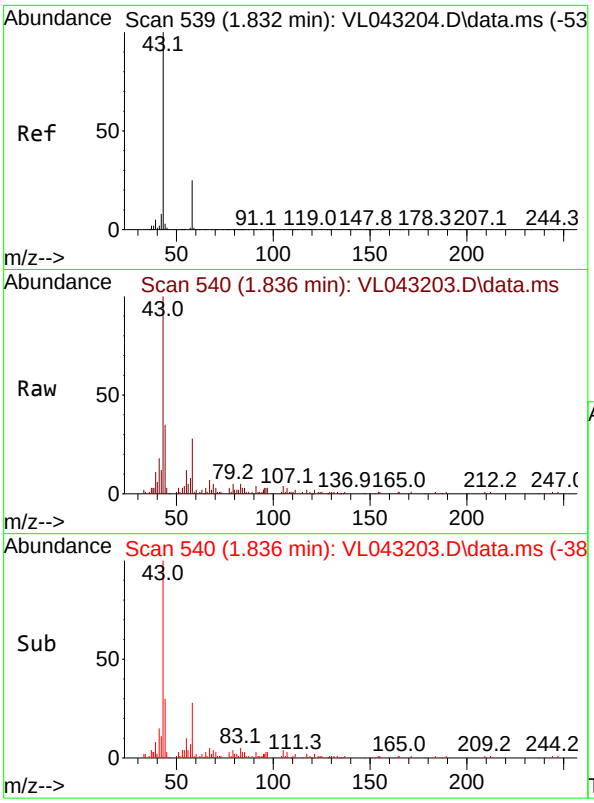


#14
Bromoethene
Concen: 0.548 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:108 Resp: 2476

Ion	Ratio	Lower	Upper
108	100		
106	126.4	88.9	133.3
79	58.5	16.5	24.7#



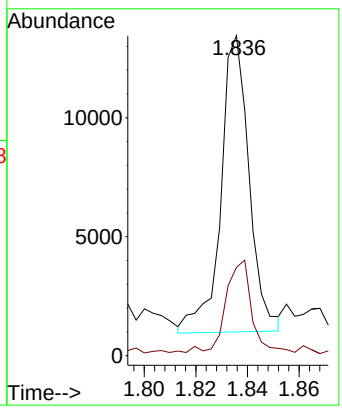


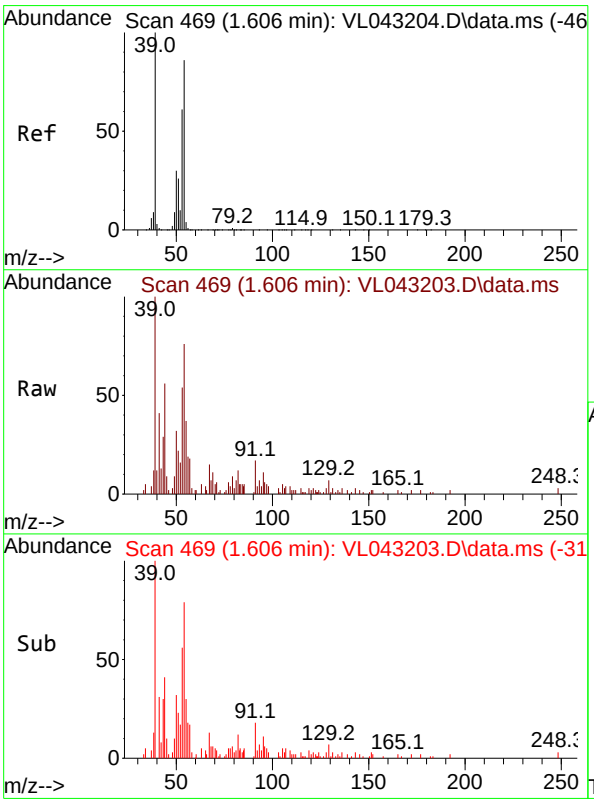
#15
Acetone
Concen: 0.619 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 9506

Ion	Ratio	Lower	Upper
43	100		
58	32.0	20.7	31.1#

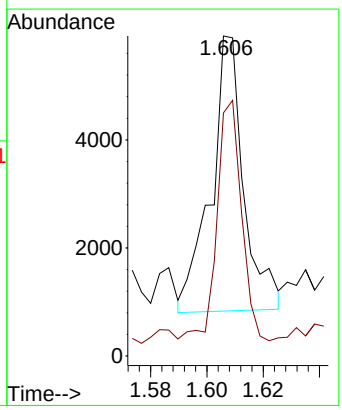


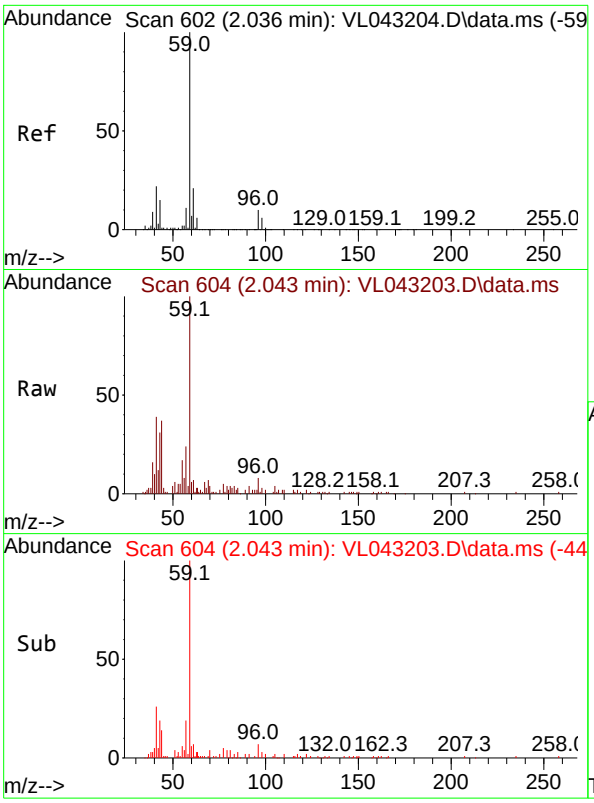


#16
1,3-Butadiene
Concen: 0.601 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 39 Resp: 4115

Ion	Ratio	Lower	Upper
39	100		
54	70.0	59.4	89.2



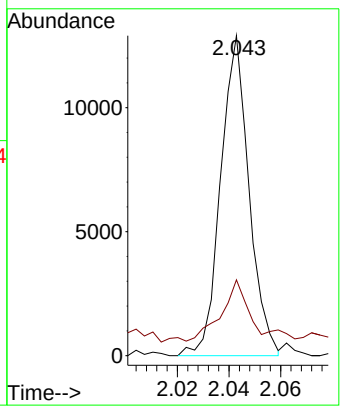


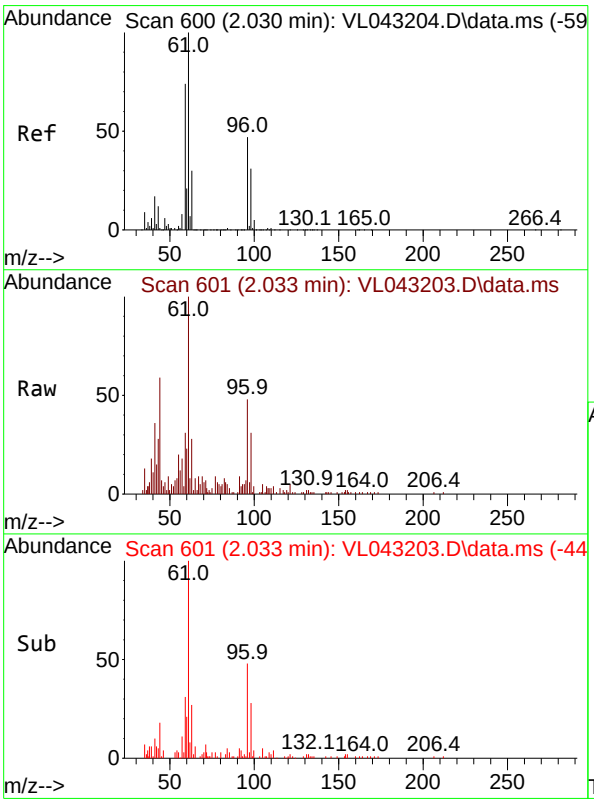
#17
tert-Butyl alcohol
Concen: 0.489 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 59 Resp: 9854

Ion	Ratio	Lower	Upper
59	100		
57	23.3	9.0	13.4#

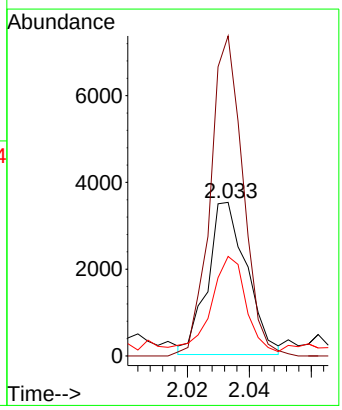


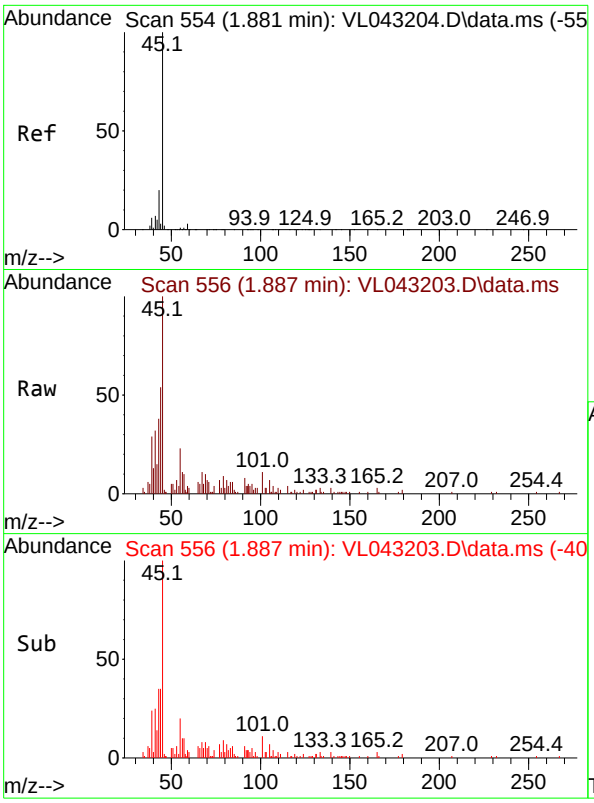


#18
1,1-Dichloroethene
Concen: 0.559 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 96 Resp: 3068

Ion	Ratio	Lower	Upper
96	100		
61	220.0	170.6	255.8
98	66.3	52.2	78.4



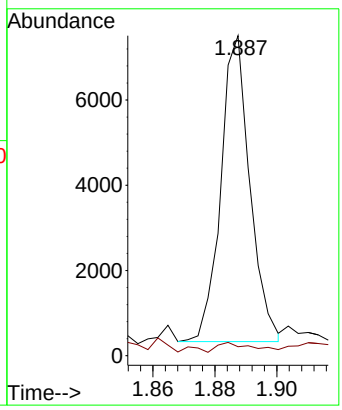


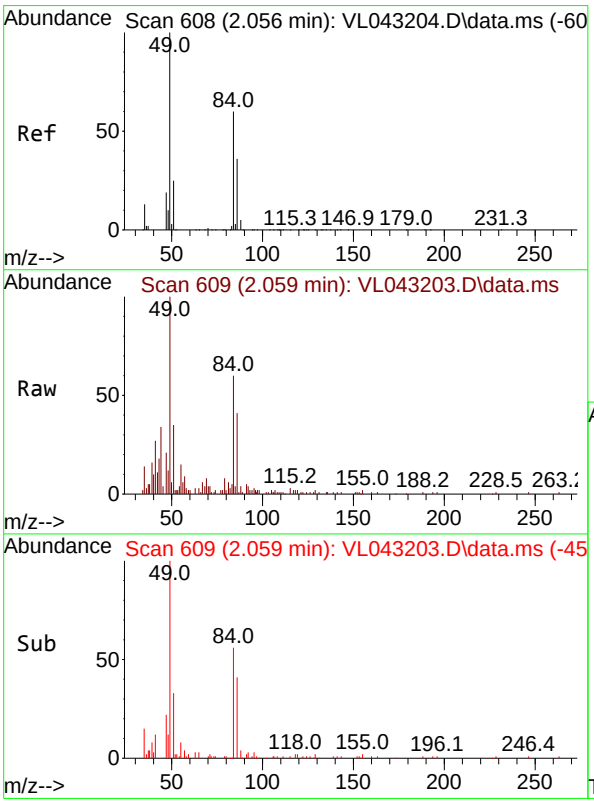
#19
Isopropyl Alcohol
Concen: 0.540 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 45 Resp: 4687

Ion	Ratio	Lower	Upper
45	100		
58	9.0	31.3	46.9#

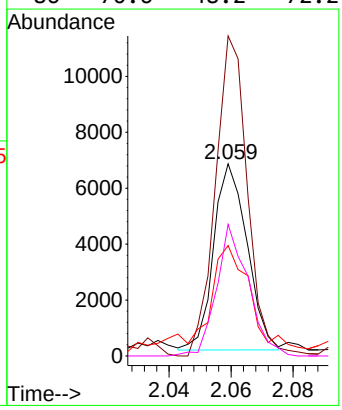


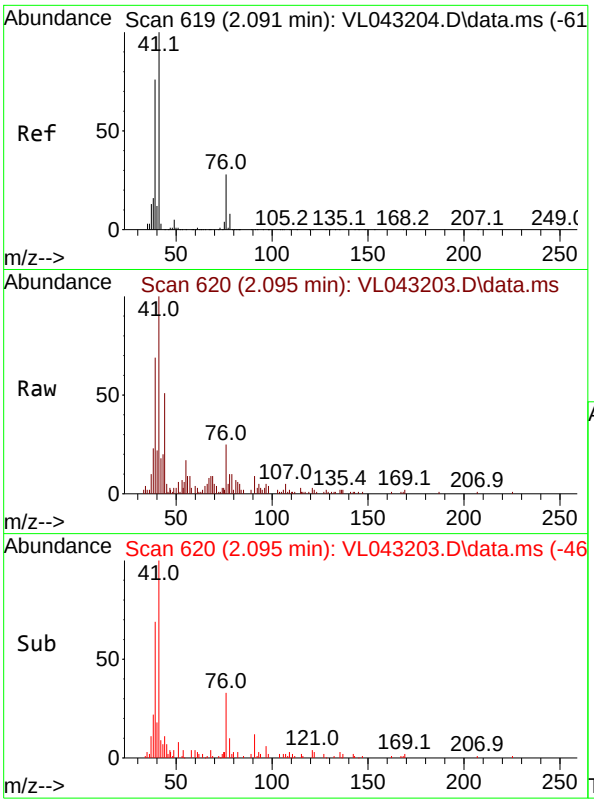


#20
Methylene Chloride
Concen: 0.349 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 84 Resp: 5006

Ion	Ratio	Lower	Upper
84	100		
49	173.9	132.9	199.3
51	48.8	34.8	52.2
86	70.6	48.2	72.2



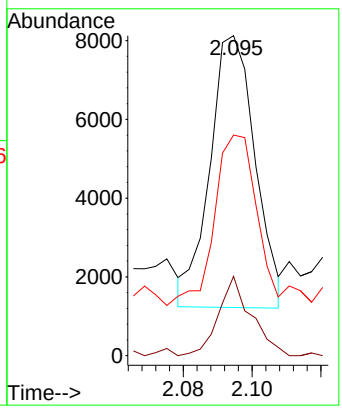


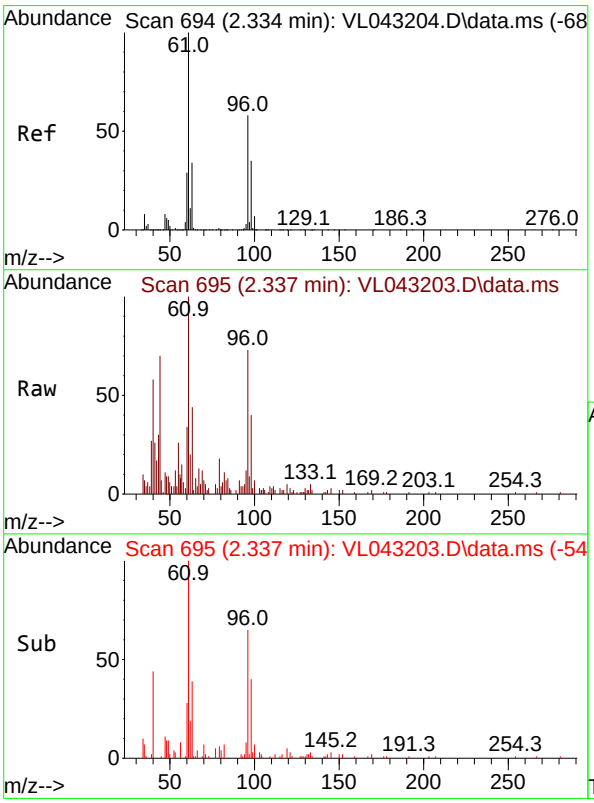
#21
Allyl Chloride
Concen: 0.609 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 41 Resp: 6291

Ion	Ratio	Lower	Upper
41	100		
76	22.2	22.1	33.1
39	73.5	61.0	91.4

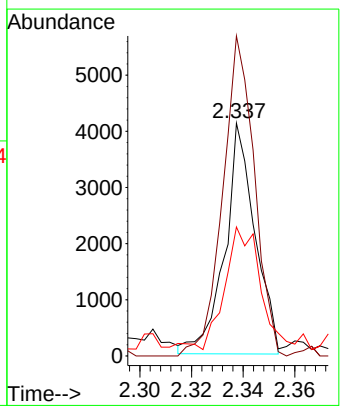


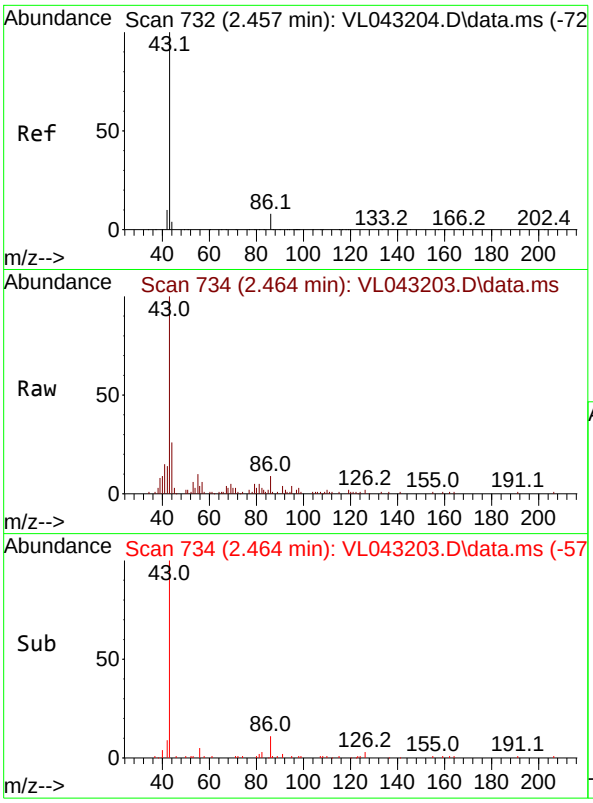


#22
trans-1,2-Dichloroethene
Concen: 0.533 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 96 Resp: 3343

Ion	Ratio	Lower	Upper
96	100		
61	141.8	139.0	208.6
98	51.7	49.4	74.2



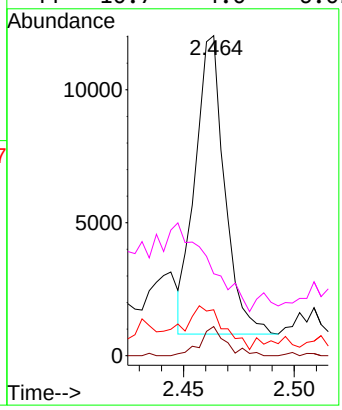


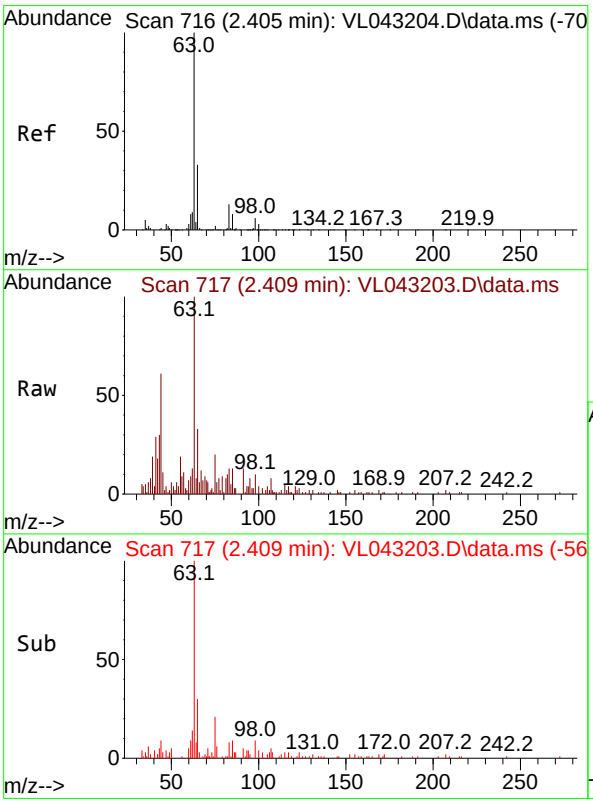
#23
Vinyl Acetate
Concen: 0.562 ppbv
RT: 2.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 10414

Ion	Ratio	Lower	Upper
43	100		
86	10.8	6.2	9.2#
42	11.4	8.0	12.0
44	10.7	4.0	6.0#

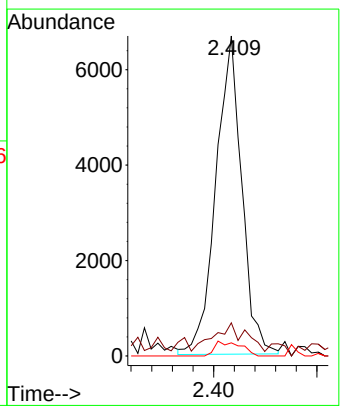


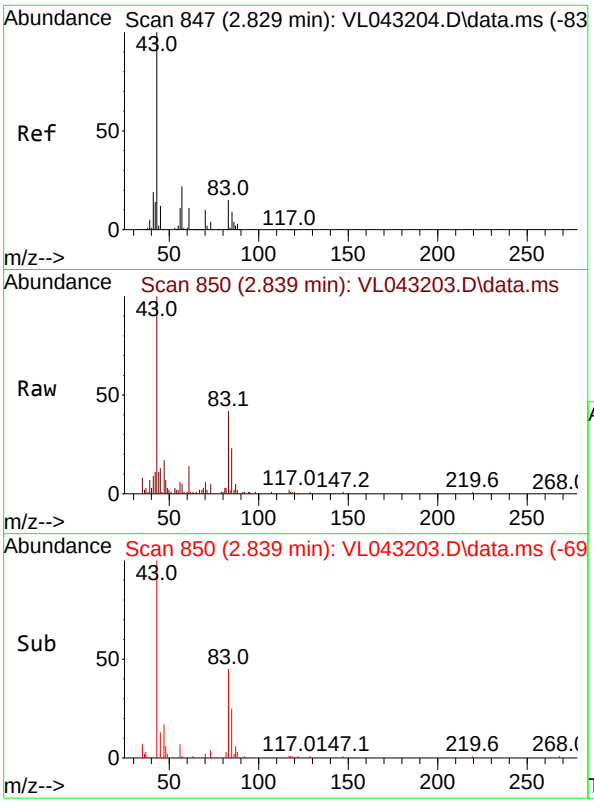


#24
1,1-Dichloroethane
Concen: 0.479 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 63 Resp: 5803

Ion	Ratio	Lower	Upper
63	100		
98	6.6	2.8	8.4
100	4.2	1.3	3.9#



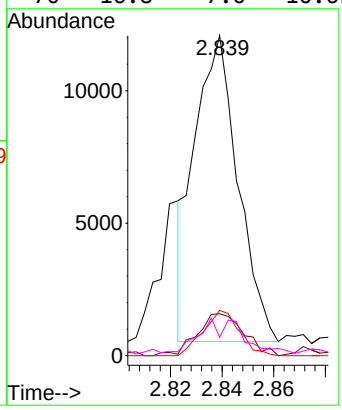


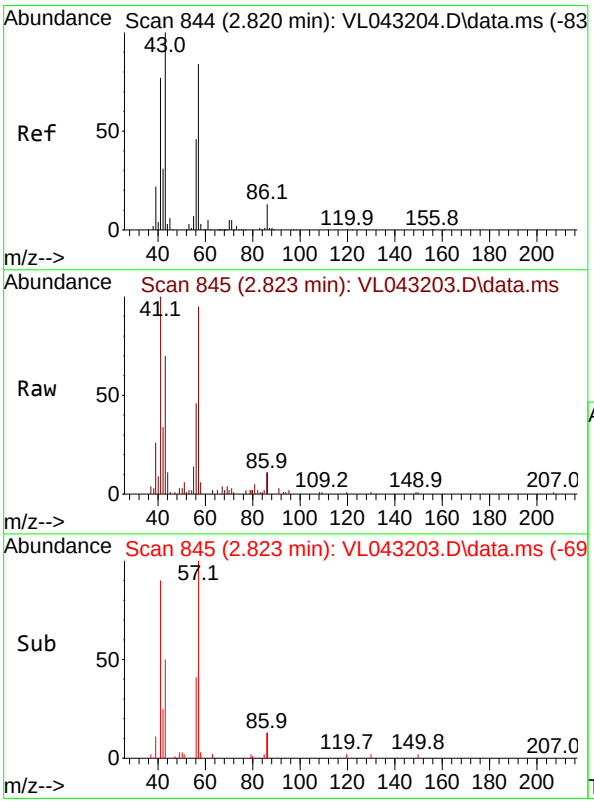
#25
Ethyl Acetate
Concen: 0.406 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 13478

Ion	Ratio	Lower	Upper
43	100		
45	15.5	8.1	12.1#
61	12.4	7.0	10.4#
70	16.8	7.0	10.6#

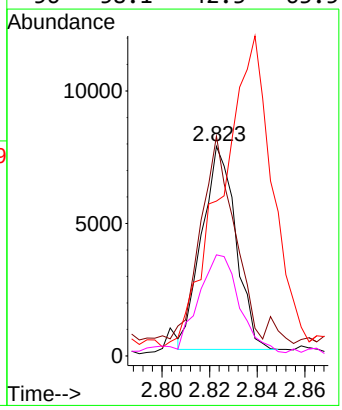


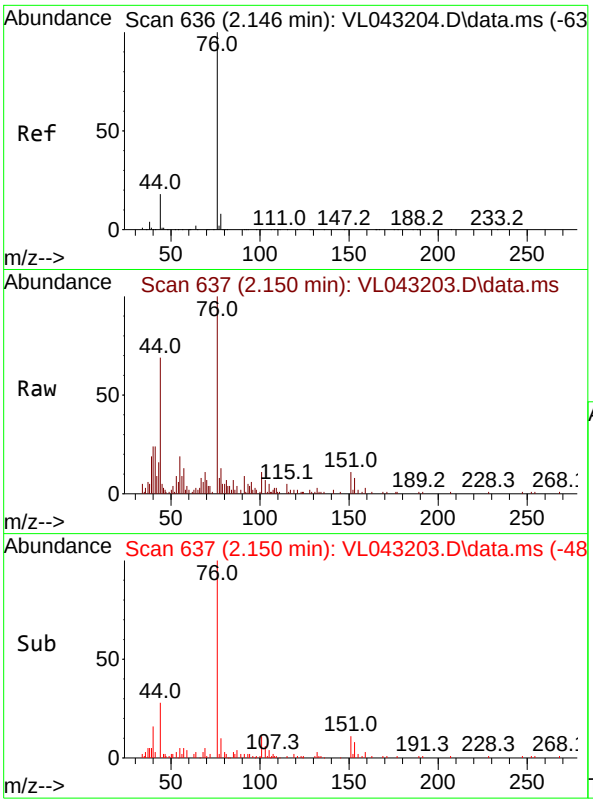


#26
Hexane
Concen: 0.523 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 57 Resp: 7589

Ion	Ratio	Lower	Upper
57	100		
41	114.6	74.6	111.8#
43	229.7	179.0	268.4
56	58.1	42.3	63.5



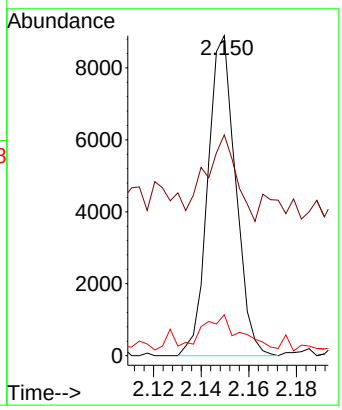


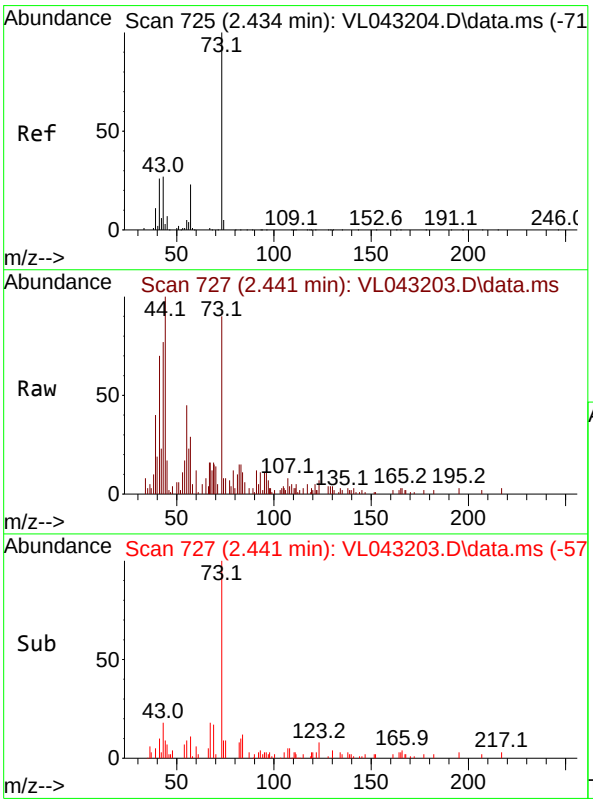
#27
Carbon Disulfide
Concen: 0.486 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 76 Resp: 7198

Ion	Ratio	Lower	Upper
76	100		
44	115.9	16.1	24.1#
78	26.4	9.6	14.4#

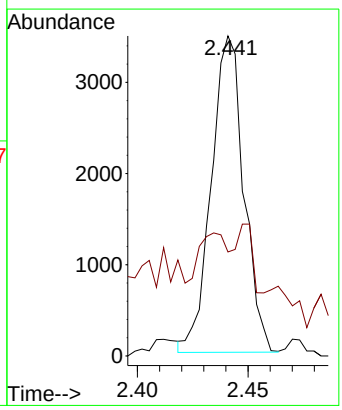


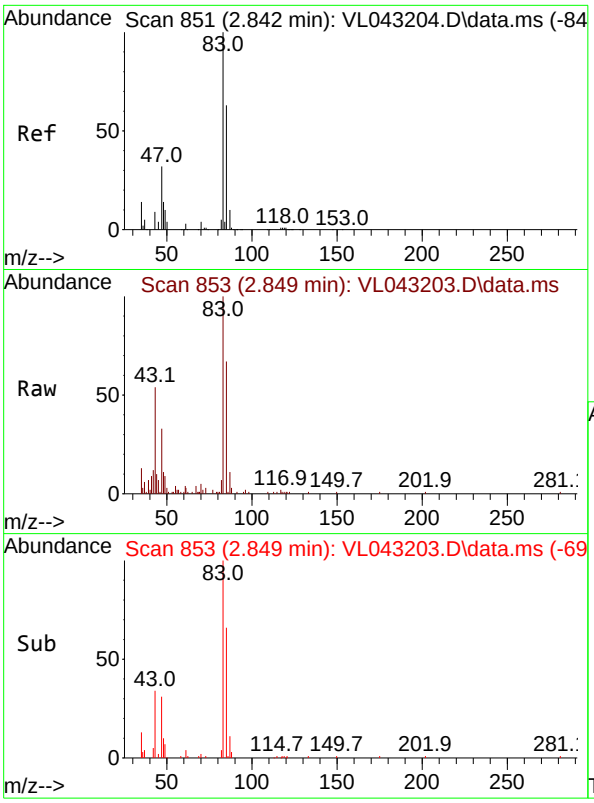


#28
Methyl tert-Butyl Ether
Concen: 0.498 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 73 Resp: 3545

Ion	Ratio	Lower	Upper
73	100		
57	67.2	19.8	29.8#



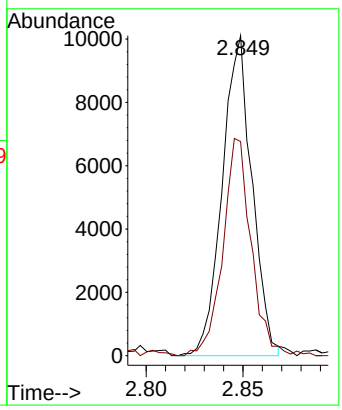


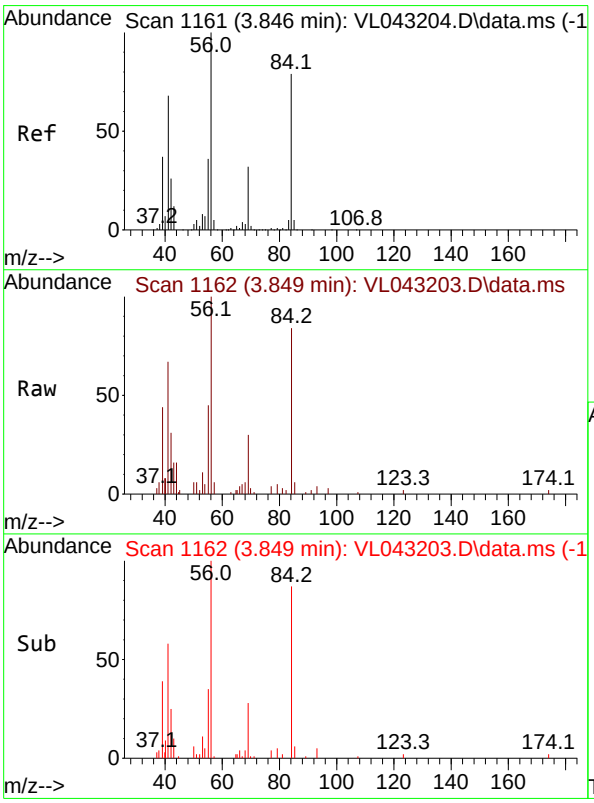
#29
Chloroform
Concen: 0.523 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 10800

Ion	Ratio	Lower	Upper
83	100		
85	66.9	50.5	75.7

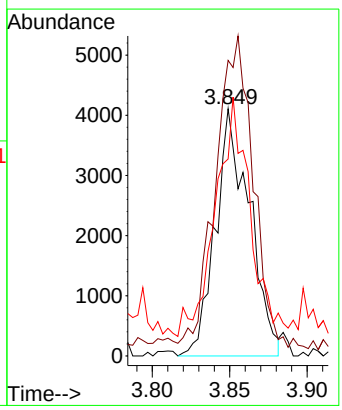


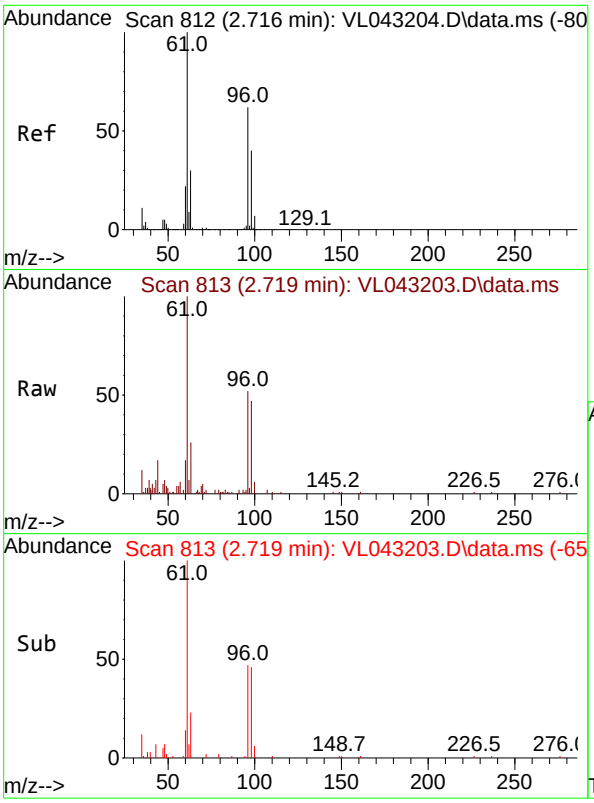


#30
Cyclohexane
Concen: 0.515 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 84 Resp: 6271

Ion	Ratio	Lower	Upper
84	100		
56	148.3	104.7	157.1
41	99.3	69.0	103.6



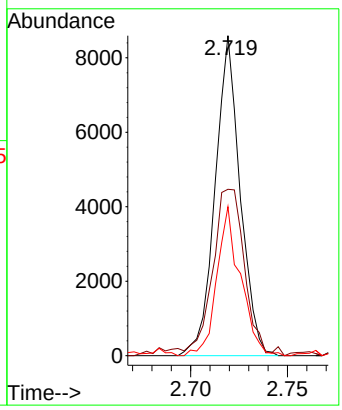


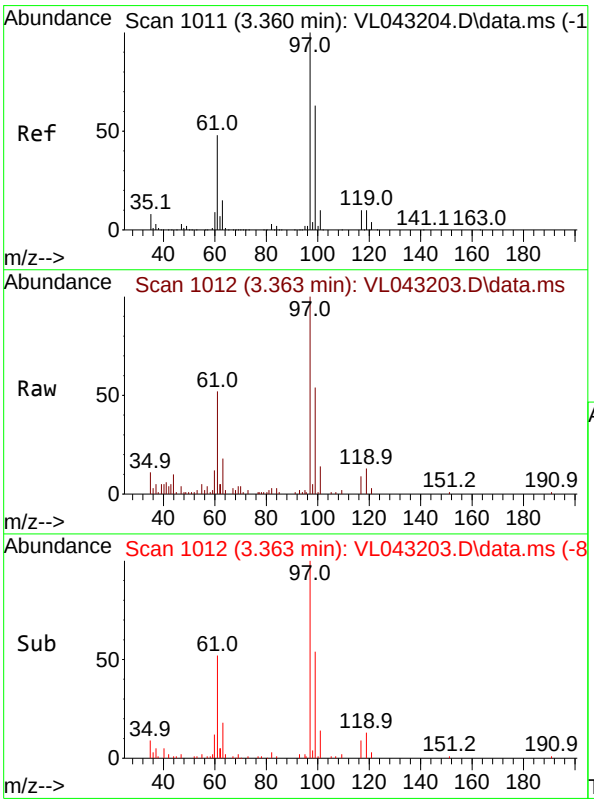
#31
cis-1,2-Dichloroethene
Concen: 0.536 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 61 Resp: 7728

Ion	Ratio	Lower	Upper
61	100		
96	49.8	49.3	73.9
98	46.5	32.1	48.1

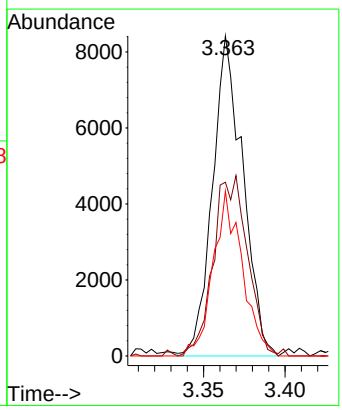


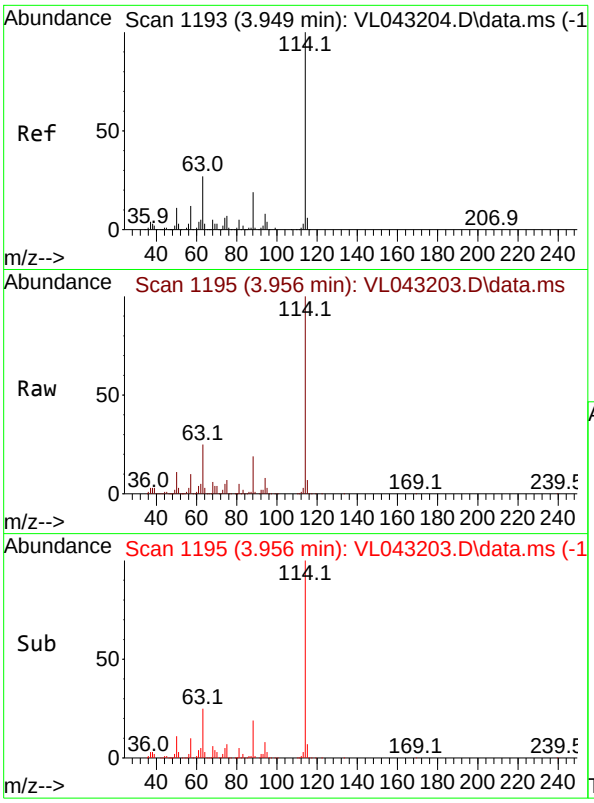


#32
1,1,1-Trichloroethane
Concen: 0.490 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 97 Resp: 10886

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.3	75.5
61	49.5	38.9	58.3



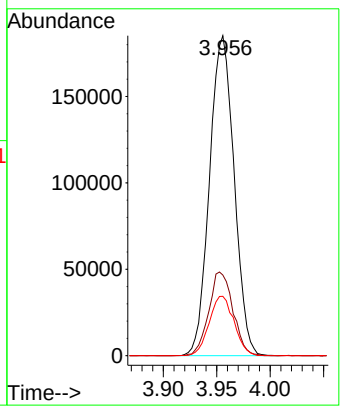


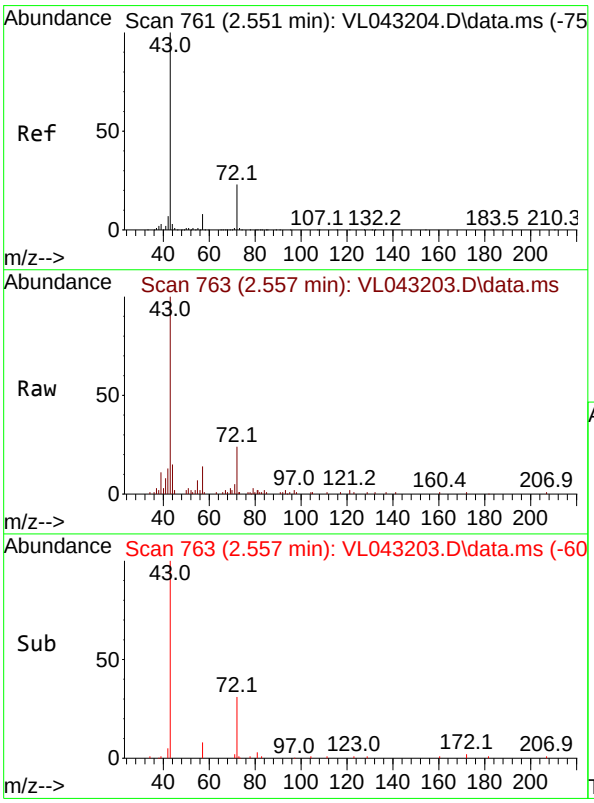
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:114 Resp: 296493

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.8	14.9	22.3

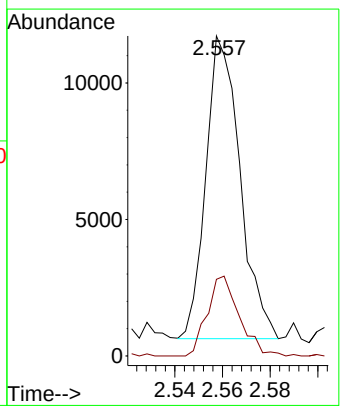


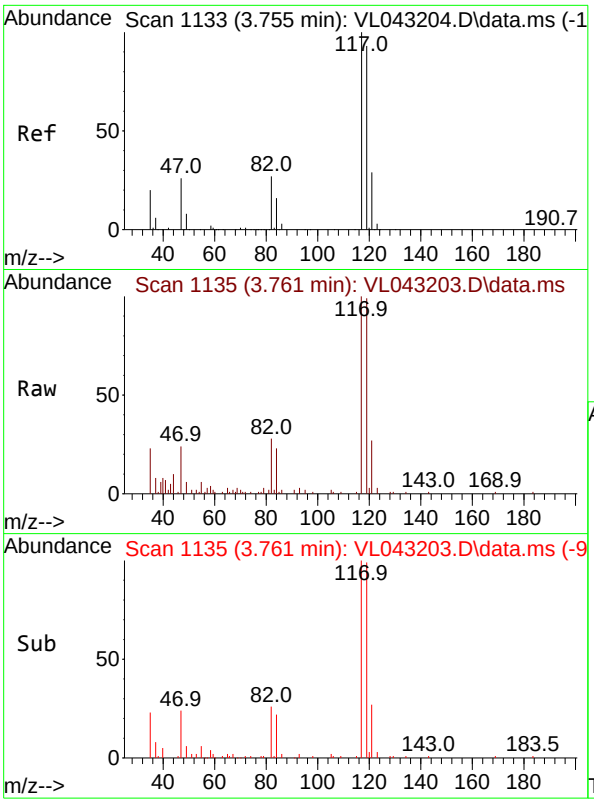


#34
2-Butanone
Concen: 0.527 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 11026

Ion	Ratio	Lower	Upper
43	100		
72	24.9	18.1	27.1



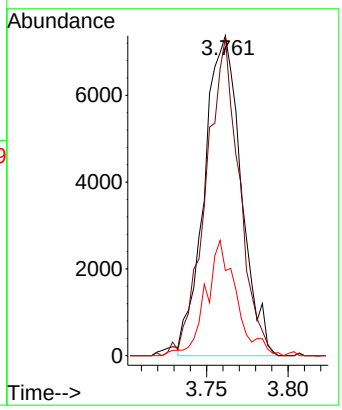


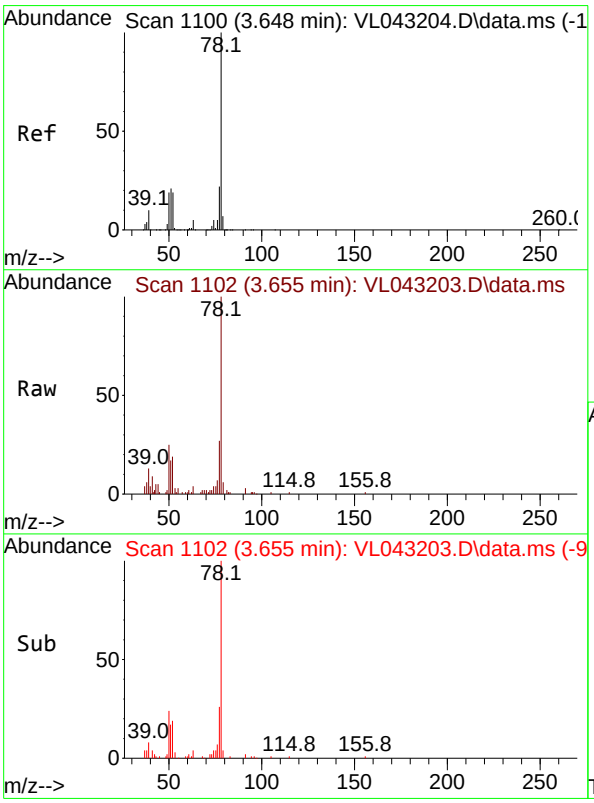
#35
Carbon Tetrachloride
Concen: 0.513 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:117 Resp: 11551

Ion	Ratio	Lower	Upper
117	100		
119	99.4	74.6	112.0
121	25.7	23.2	34.8

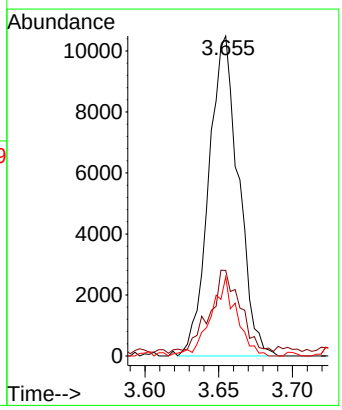


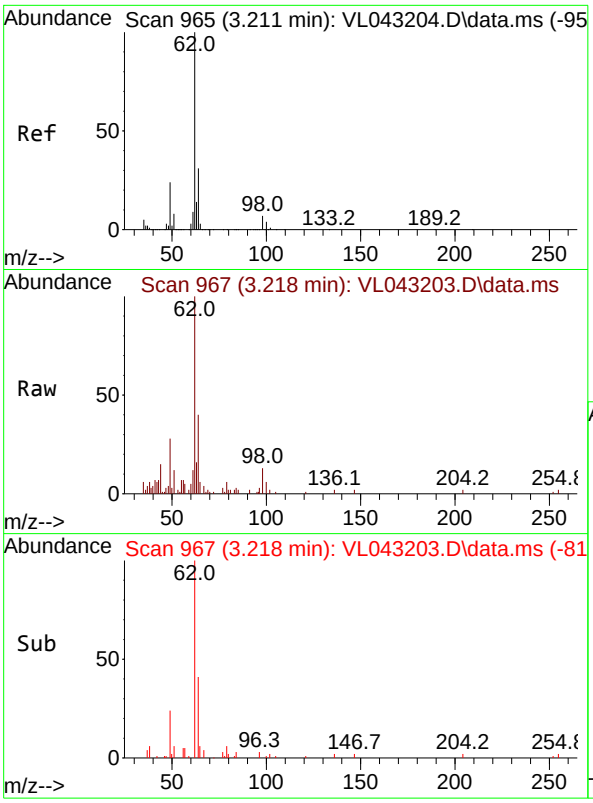


#36
Benzene
Concen: 0.520 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 78 Resp: 14759

Ion	Ratio	Lower	Upper
78	100		
77	24.6	17.5	26.3
50	24.7	15.5	23.3#



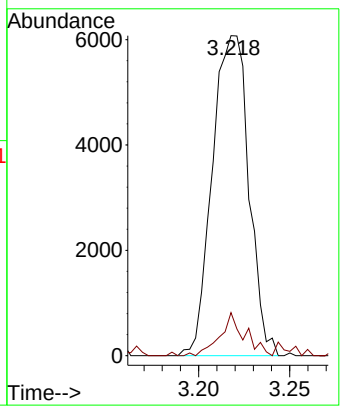


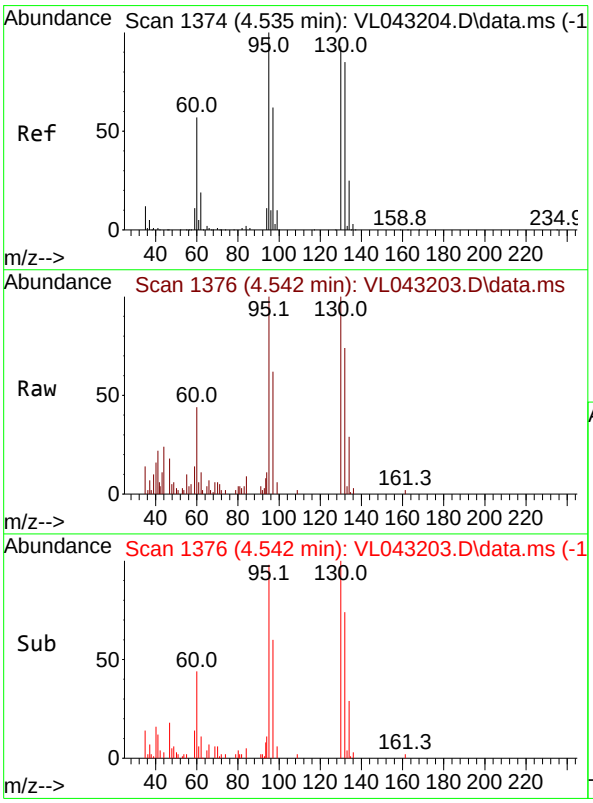
#37
1,2-Dichloroethane
Concen: 0.510 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 8477

Ion	Ratio	Lower	Upper
62	100		
98	9.2	5.5	8.3#

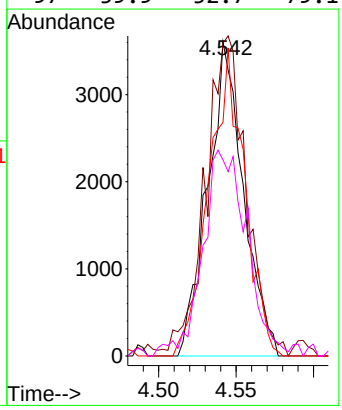


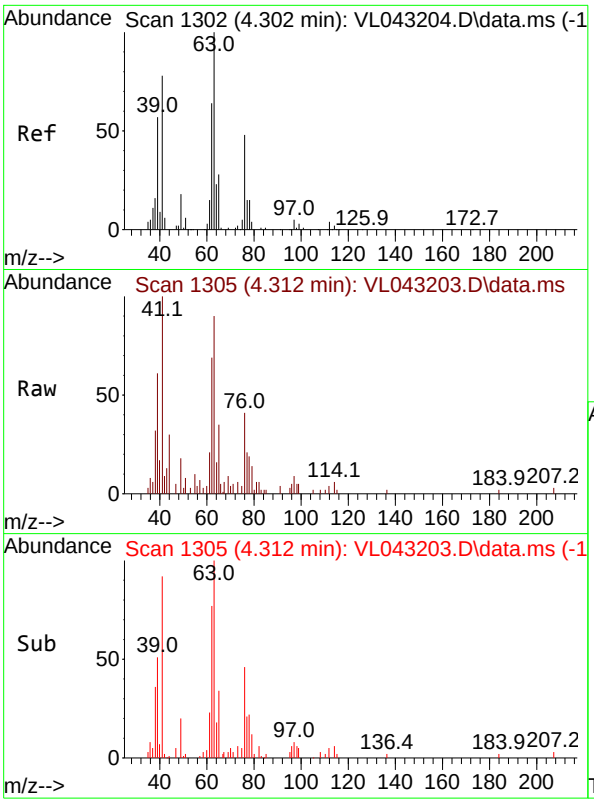


#38
Trichloroethene
Concen: 0.519 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:130 Resp: 5775

Ion	Ratio	Lower	Upper
130	100		
95	96.0	85.7	128.5
132	72.9	73.4	110.0#
97	59.9	52.7	79.1



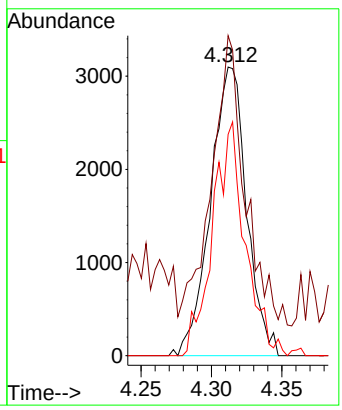


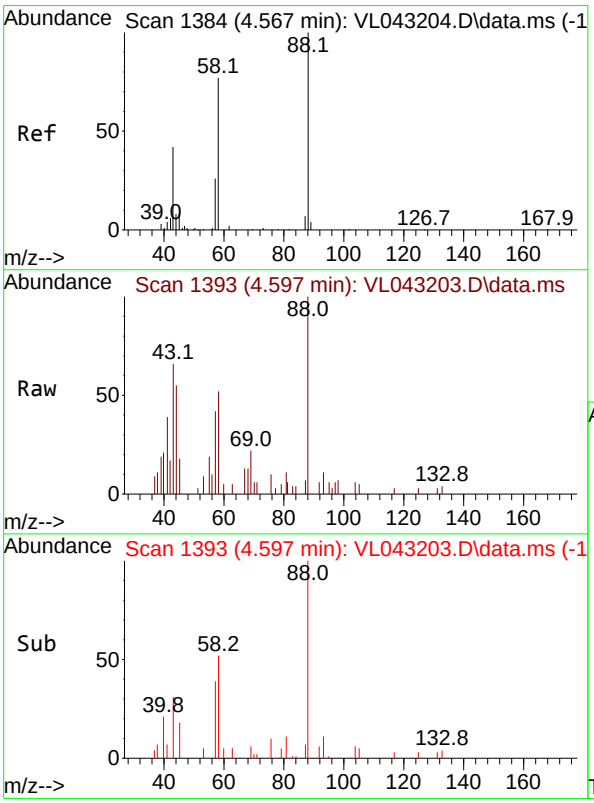
#39
1,2-Dichloropropane
Concen: 0.530 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 63 Resp: 5510

Ion	Ratio	Lower	Upper
63	100		
41	98.4	62.6	93.8#
62	76.7	51.0	76.6#

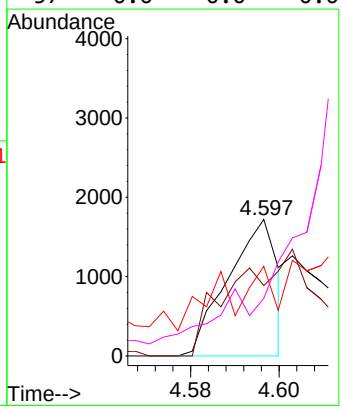


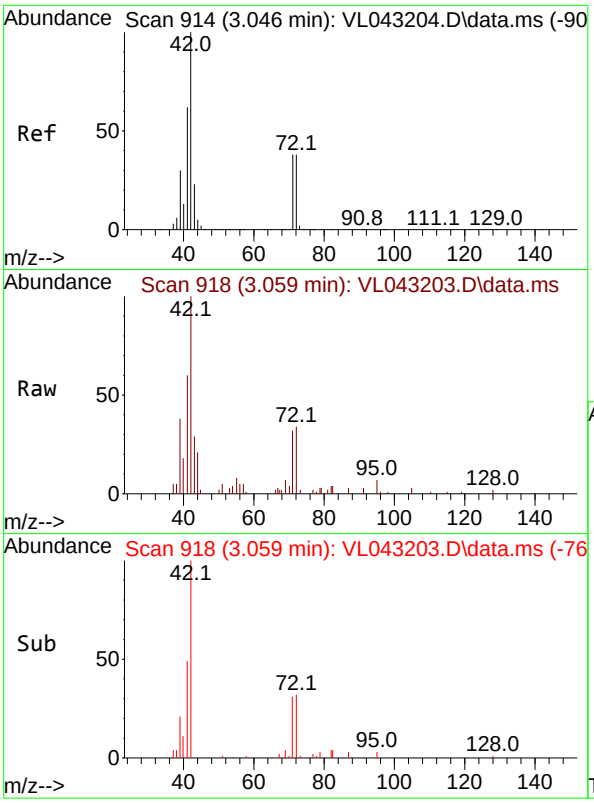


#40
1,4-Dioxane
Concen: 0.286 ppbv
RT: 4.597 min Scan# 1393
Delta R.T. 0.029 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 88 Resp: 1334

Ion	Ratio	Lower	Upper
88	100		
58	0.0	63.0	94.6#
43	39.8	32.5	48.7
57	0.0	0.0	0.0



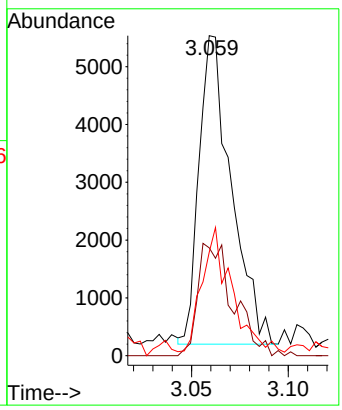


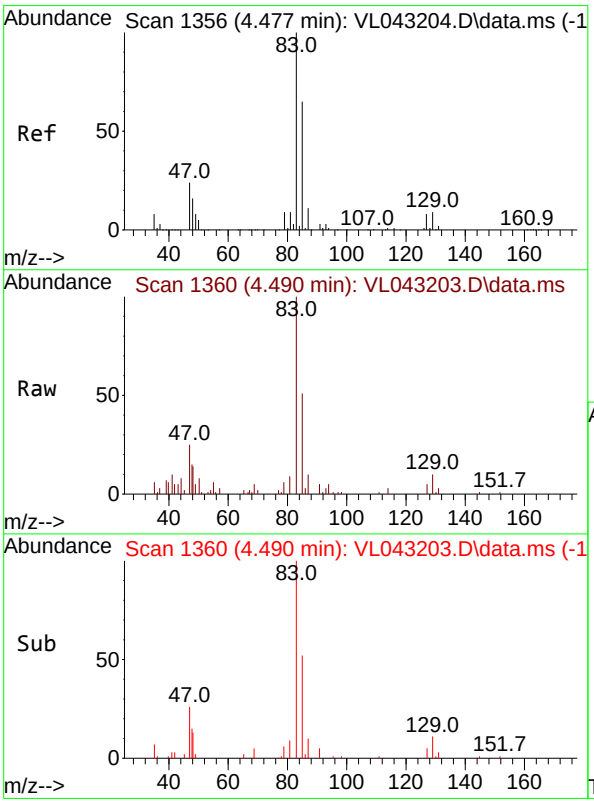
#41
Tetrahydrofuran
Concen: 0.536 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 42 Resp: 6193

Ion	Ratio	Lower	Upper
42	100		
72	40.2	30.6	46.0
71	42.1	30.5	45.7

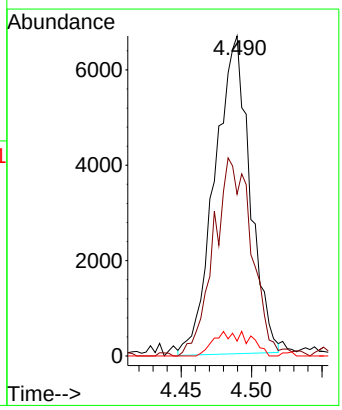


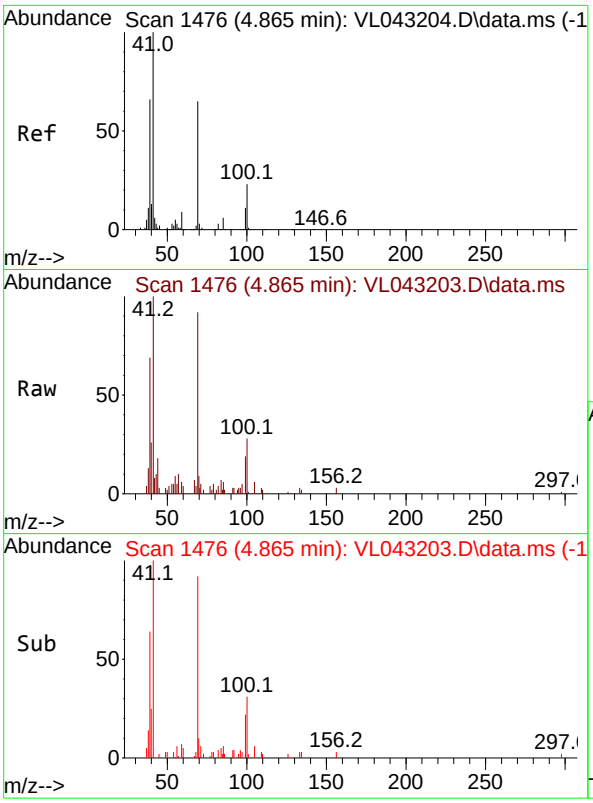


#42
Bromodichloromethane
Concen: 0.506 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 83 Resp: 11597

Ion	Ratio	Lower	Upper
83	100		
85	51.4	51.7	77.5#
127	4.8	6.3	9.5#



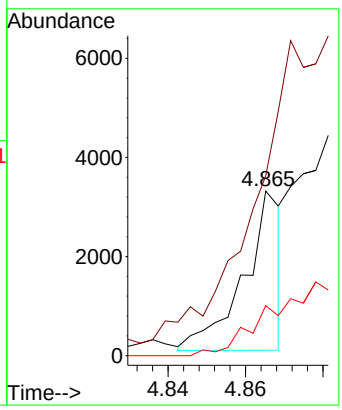


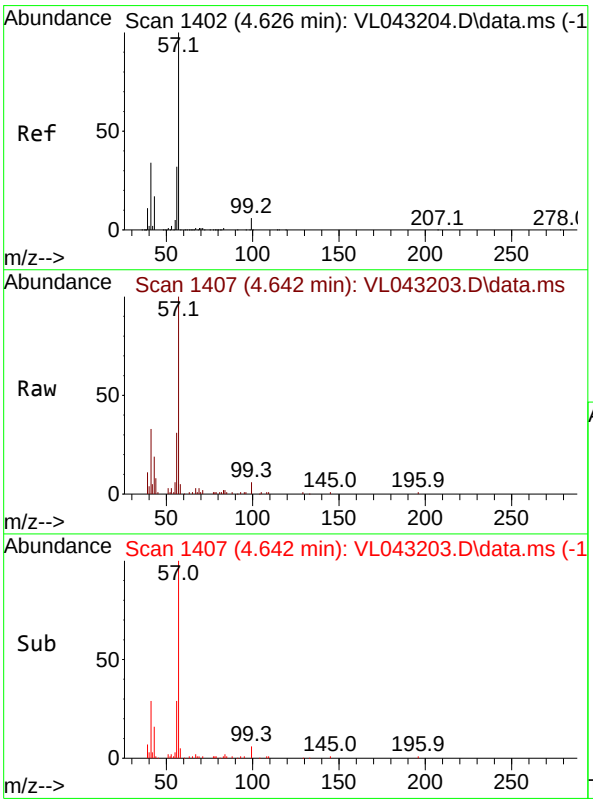
#43
Methyl Methacrylate
Concen: 0.143 ppbv
RT: 4.865 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 69 Resp: 2151

Ion	Ratio	Lower	Upper
69	100		
41	0.0	126.7	190.1#
100	0.0	28.6	43.0#

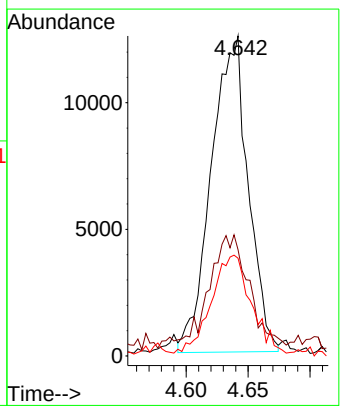


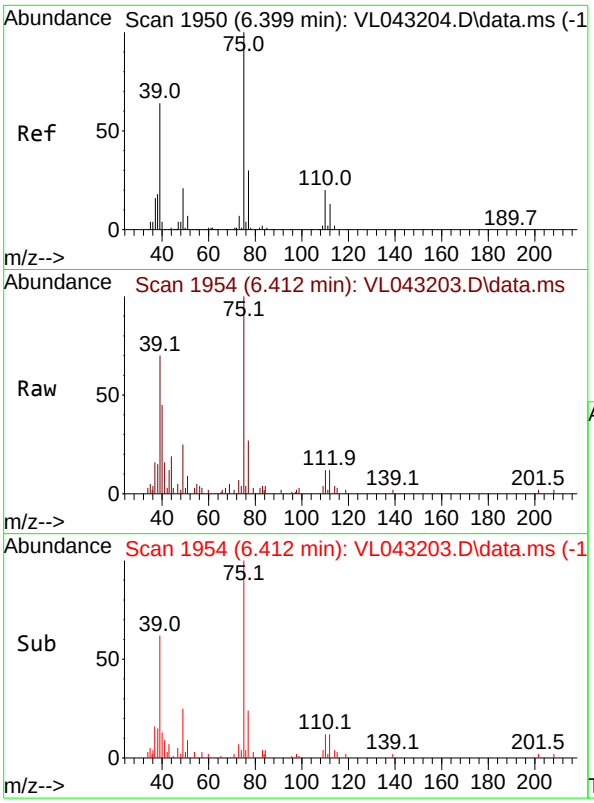


#44
2,2,4-Trimethylpentane
Concen: 0.531 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 57 Resp: 25890

Ion	Ratio	Lower	Upper
57	100		
41	36.2	28.0	42.0
56	36.9	25.6	38.4



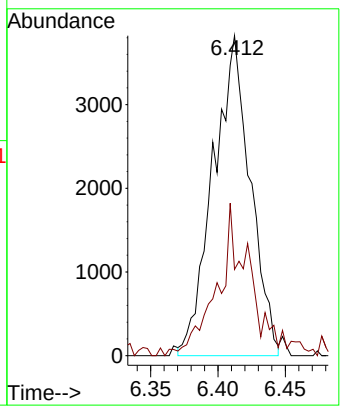


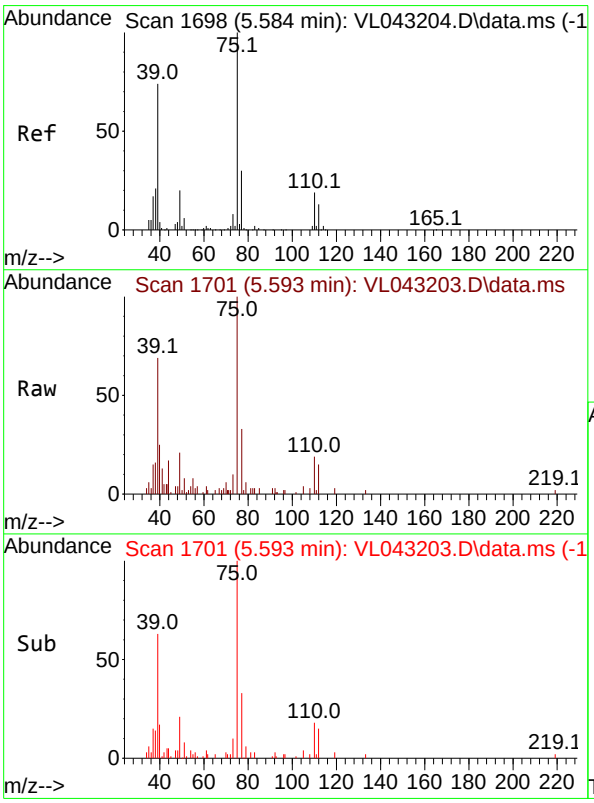
#45
t-1,3-Dichloropropene
Concen: 0.523 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 75 Resp: 7343

Ion	Ratio	Lower	Upper
75	100		
77	26.9	24.3	36.5

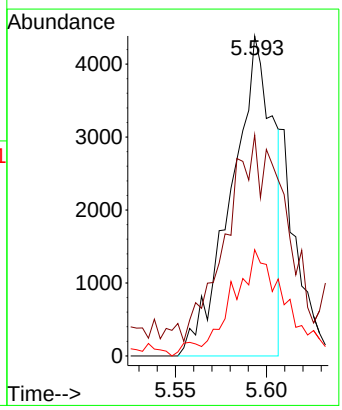


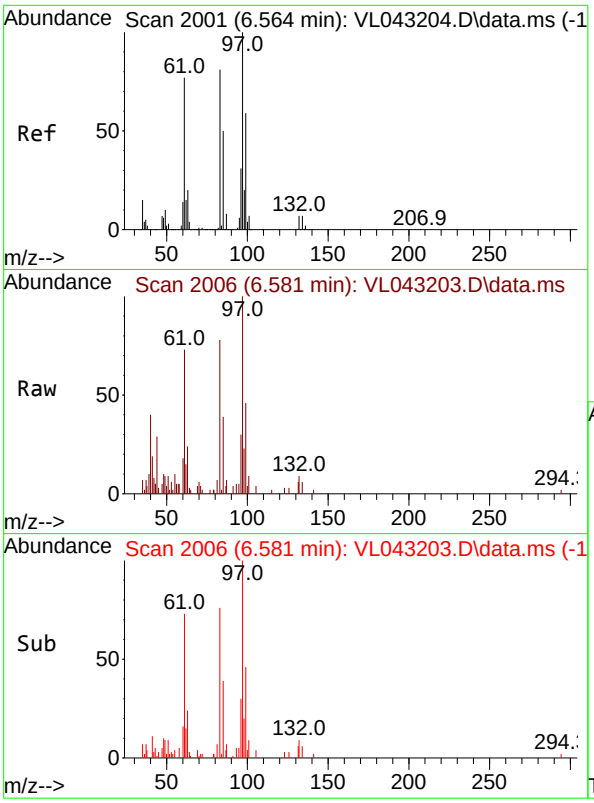


#46
cis-1,3-Dichloropropene
Concen: 0.425 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 75 Resp: 7004

Ion	Ratio	Lower	Upper
75	100		
39	58.9	59.1	88.7#
77	30.6	24.2	36.2



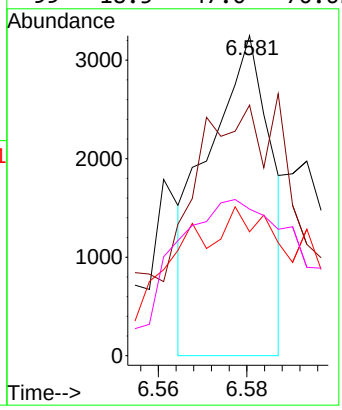


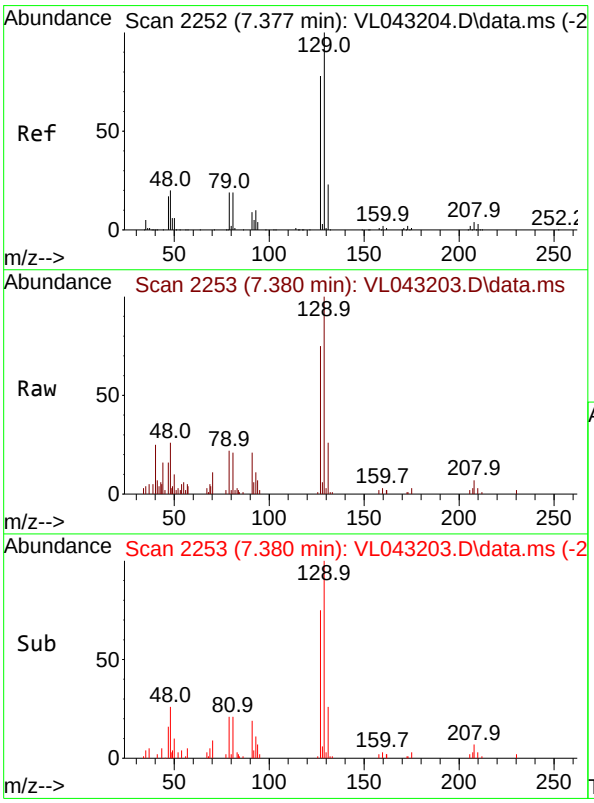
#47
1,1,2-Trichloroethane
Concen: 0.290 ppbv
RT: 6.581 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 97 Resp: 3211

Ion	Ratio	Lower	Upper
97	100		
83	70.2	64.6	97.0
85	11.0	39.4	59.2#
99	18.5	47.0	70.6#

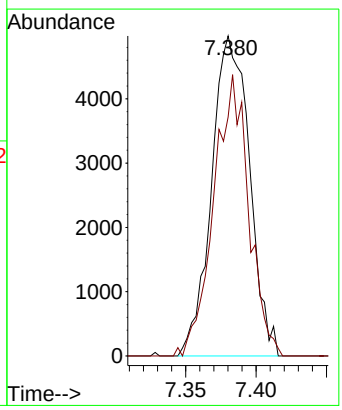


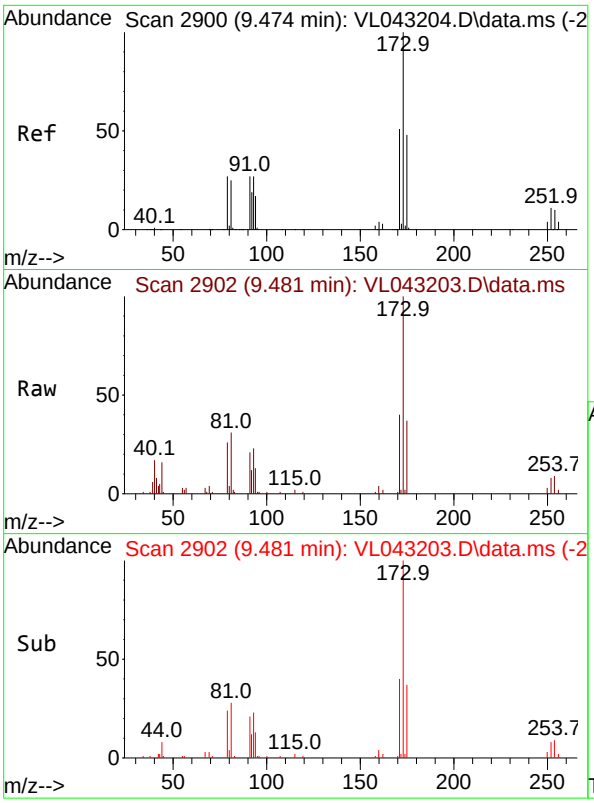


#48
Dibromochloromethane
Concen: 0.492 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:129 Resp: 9327

Ion	Ratio	Lower	Upper
129	100		
127	80.8	39.3	117.9



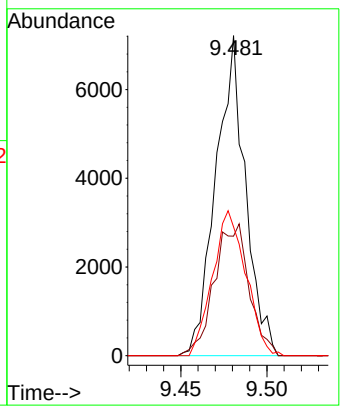


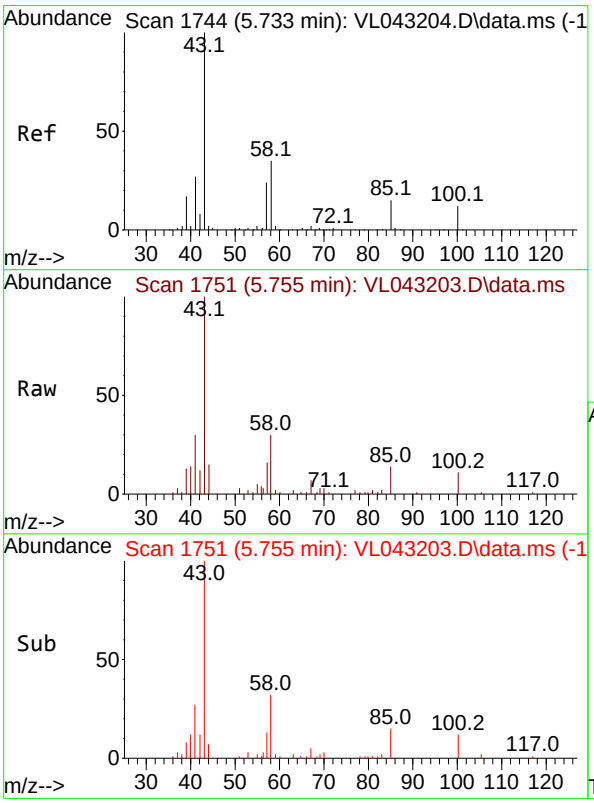
#49
Bromoform
Concen: 0.514 ppbv
RT: 9.481 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:173 Resp: 8636

Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.6	58.0
171	50.9	40.6	61.0

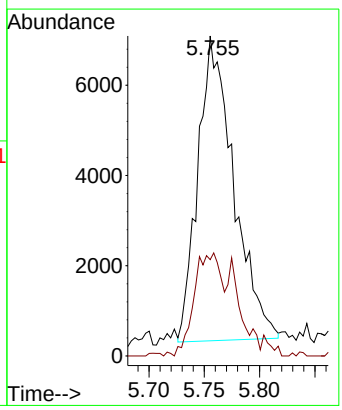


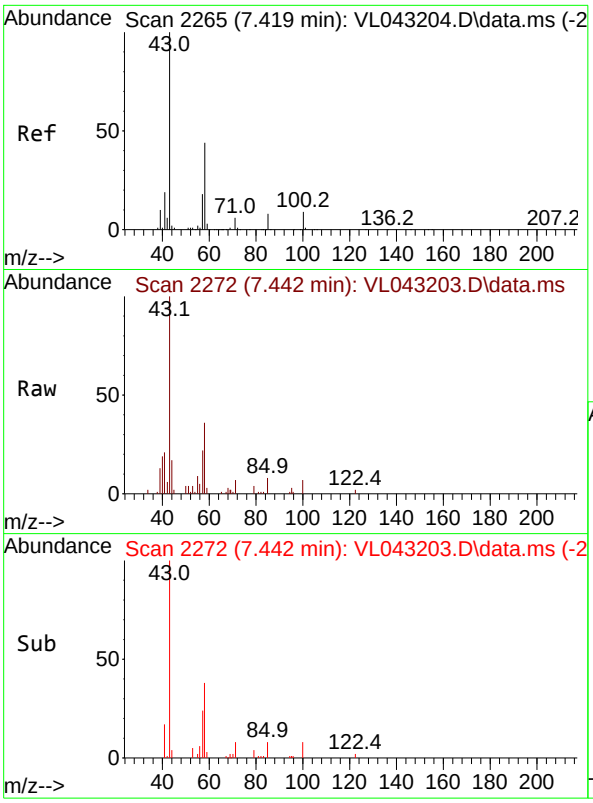


#50
4-Methyl-2-Pentanone
Concen: 0.515 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.023 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 43 Resp: 15190

Ion	Ratio	Lower	Upper
43	100		
58	40.3	28.4	42.6



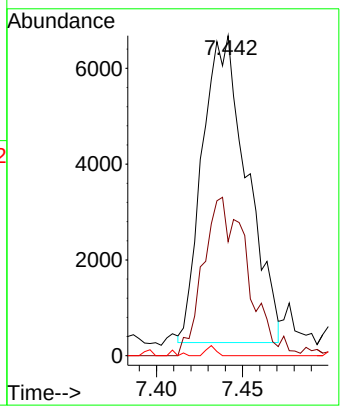


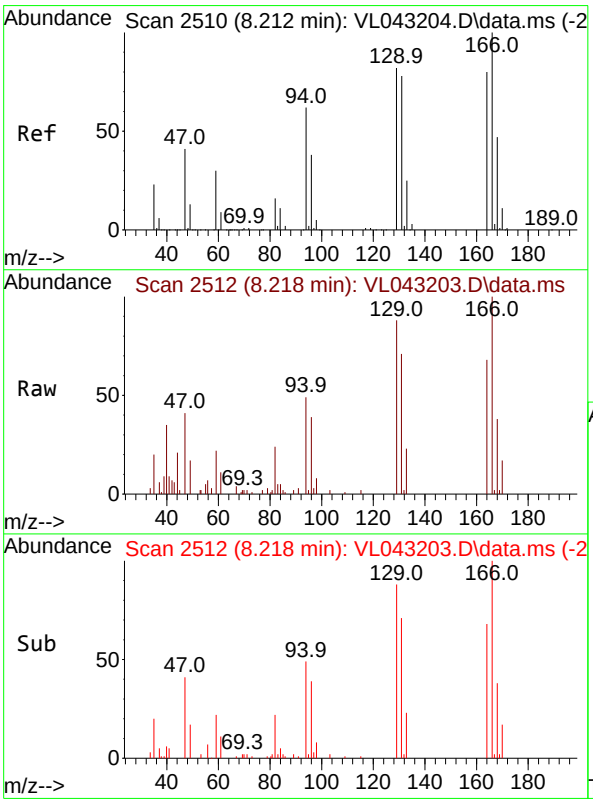
#51
2-Hexanone
Concen: 0.506 ppbv
RT: 7.442 min Scan# 2
Delta R.T. 0.023 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 11594

Ion	Ratio	Lower	Upper
43	100		
58	52.6	38.4	57.6
98	0.7	0.0	0.0#

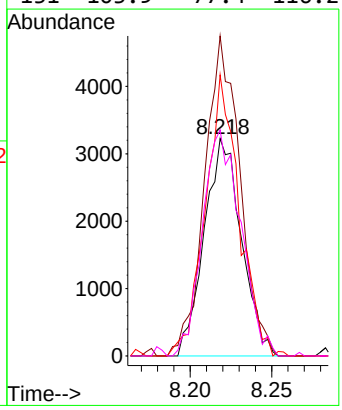


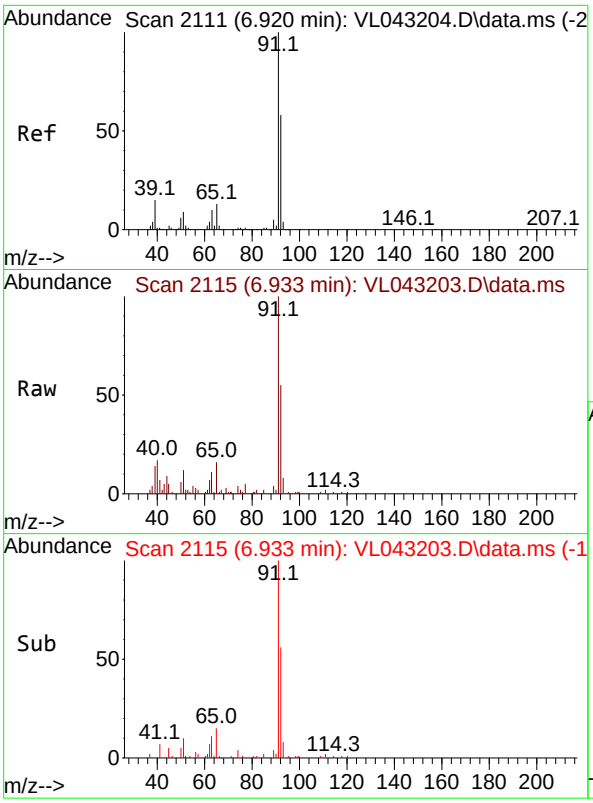


#52
Tetrachloroethene
Concen: 0.483 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:164 Resp: 5097

Ion	Ratio	Lower	Upper
164	100		
166	147.2	99.4	149.2
129	127.2	81.8	122.8#
131	103.9	77.4	116.2



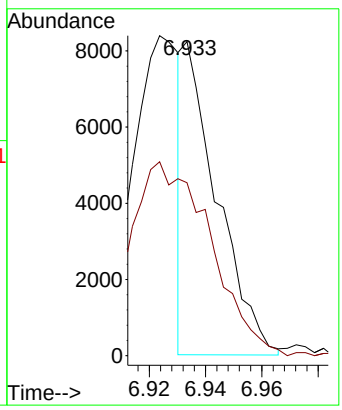


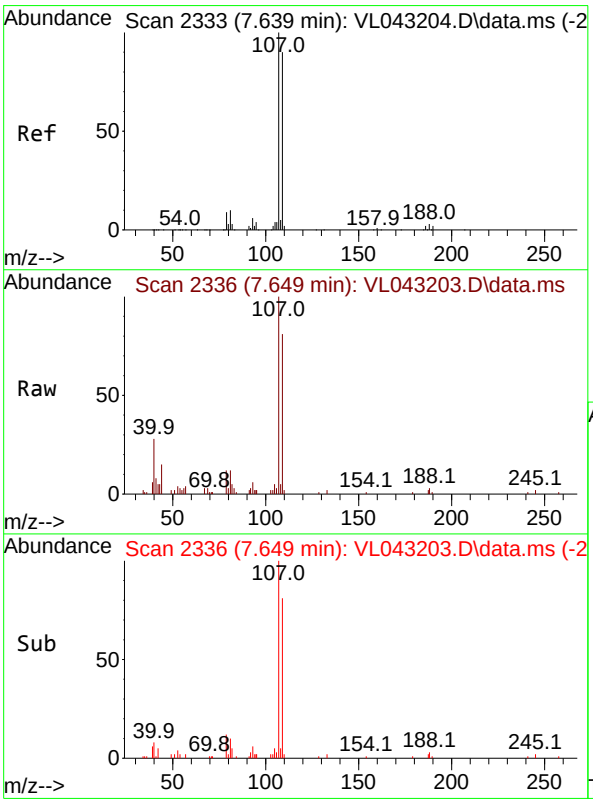
#53
Toluene
Concen: 0.203 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 6863

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#

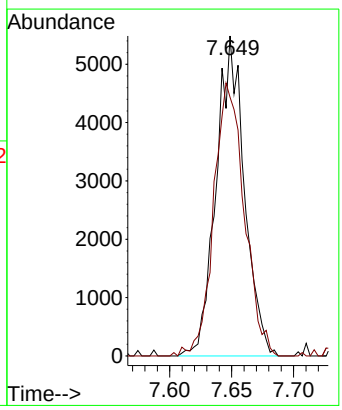


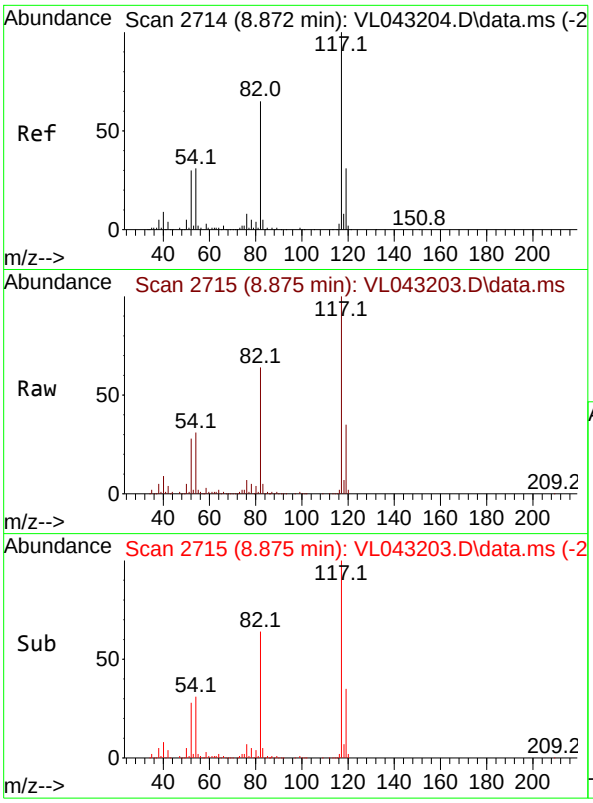


#54
1,2-Dibromoethane
Concen: 0.537 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:107 Resp: 8708

Ion	Ratio	Lower	Upper
107	100		
109	80.8	72.1	108.1



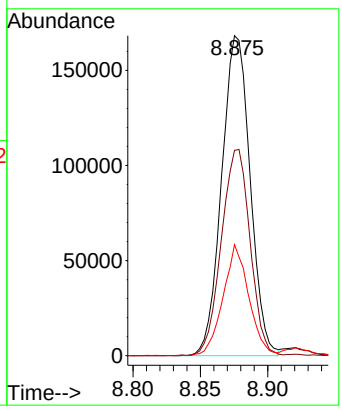


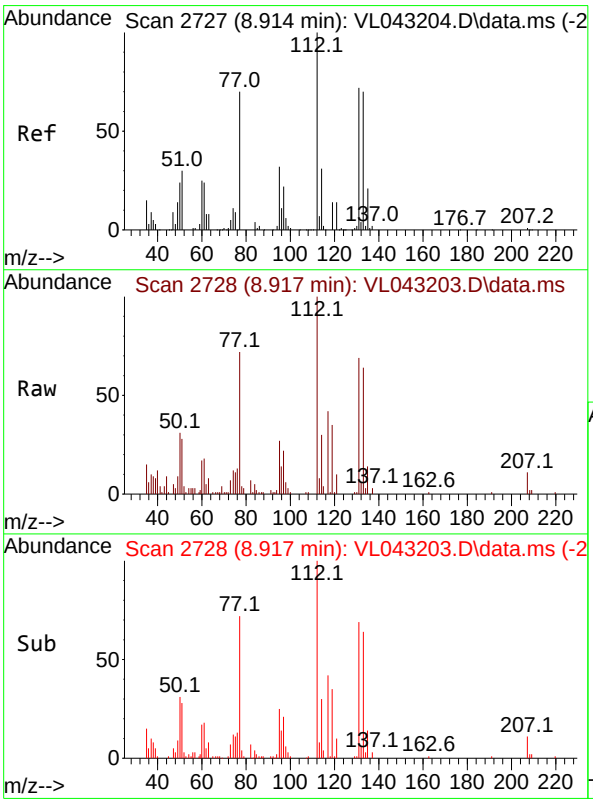
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:117 Resp: 247761

Ion	Ratio	Lower	Upper
117	100		
82	65.5	56.1	84.1
119	31.6	25.0	37.6

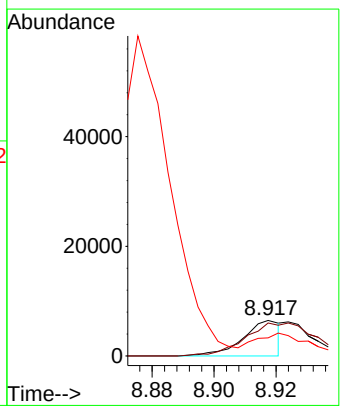


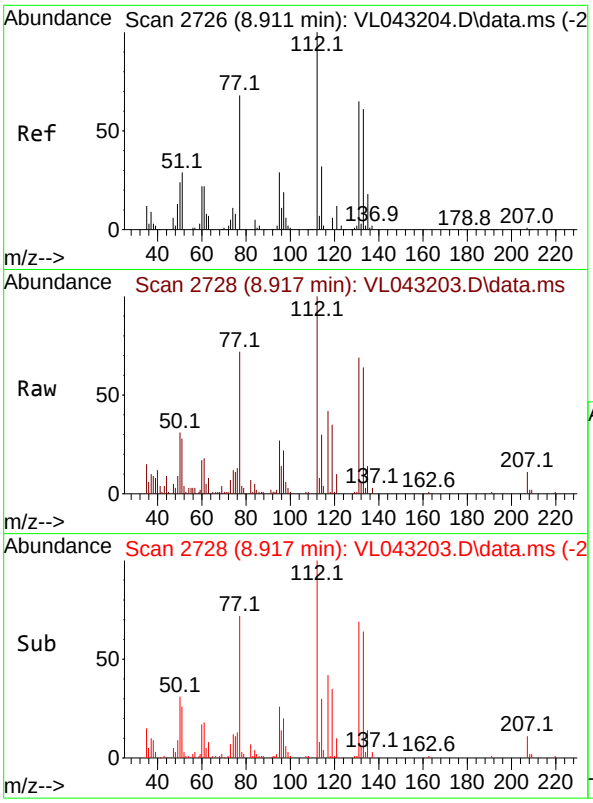


#56
1,1,1,2-Tetrachloroethane
Concen: 0.298 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:131 Resp: 5419

Ion	Ratio	Lower	Upper
131	100		
133	177.8	77.4	116.2#
119	91.4	49.1	73.7#



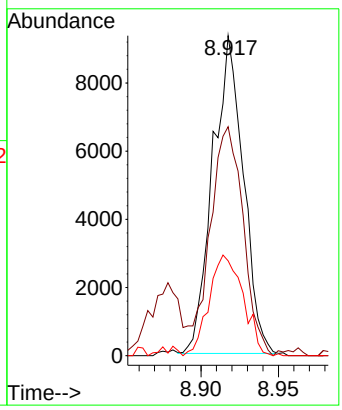


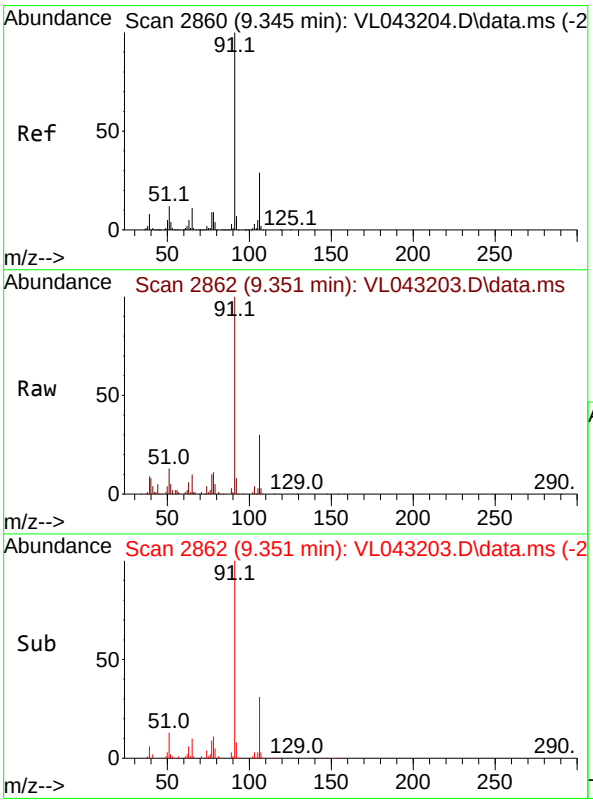
#57
Chlorobenzene
Concen: 0.504 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:112 Resp: 12818

Ion	Ratio	Lower	Upper
112	100		
77	69.0	55.5	83.3
114	29.2	29.1	35.5

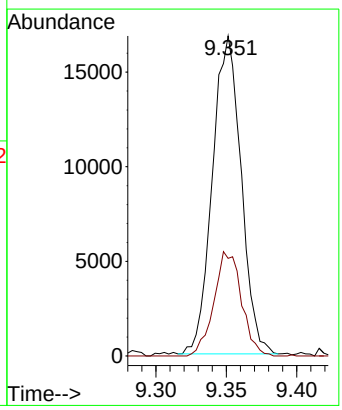


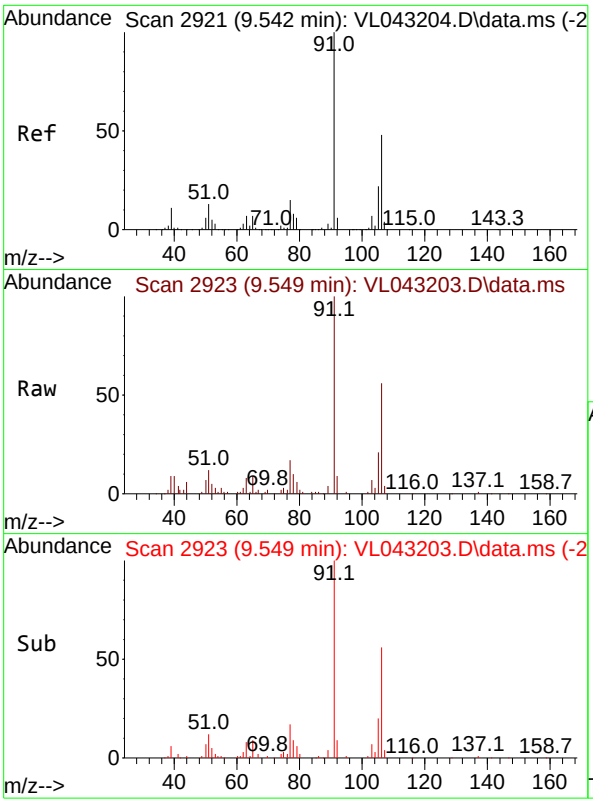


#58
Ethyl Benzene
Concen: 0.500 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 23866

Ion	Ratio	Lower	Upper
91	100		
106	30.7	22.8	34.2



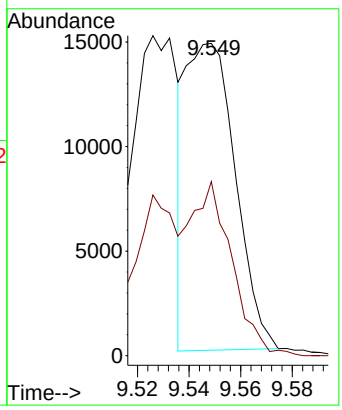


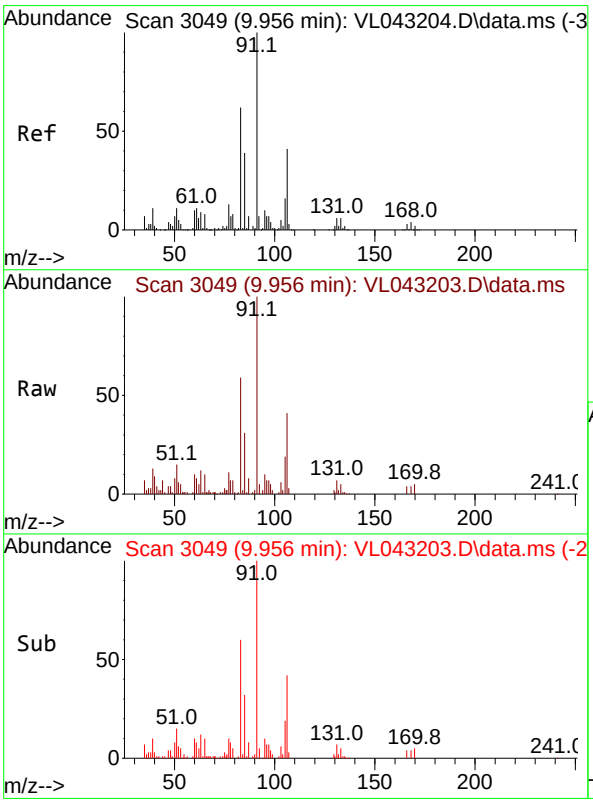
#59
m/p-Xylene
Concen: 0.507 ppbv
RT: 9.549 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 19470

Ion	Ratio	Lower	Upper
91	100		
106	94.6	36.1	54.1#

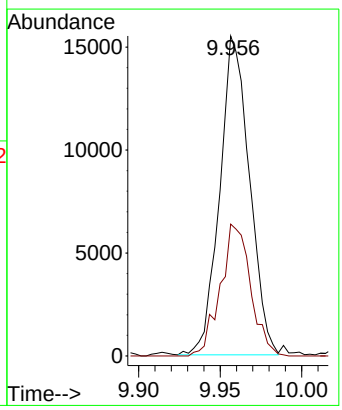


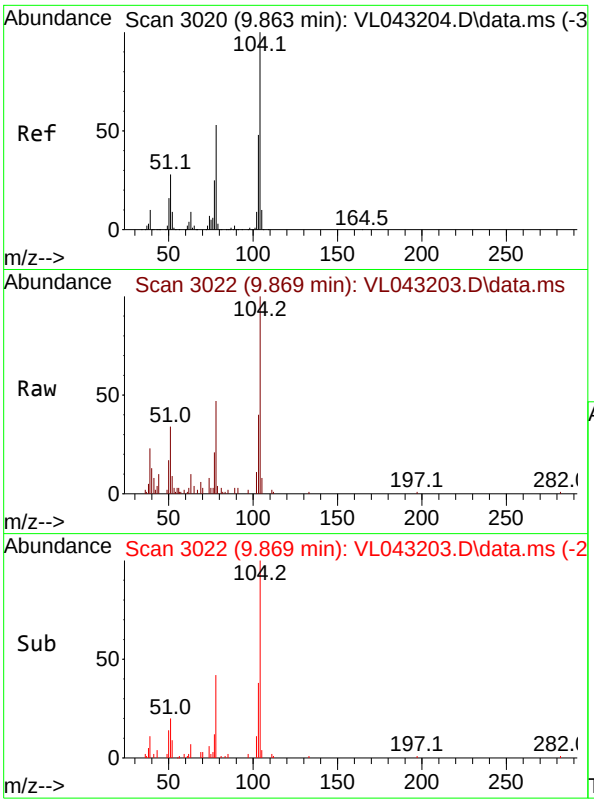


#60
o-Xylene
Concen: 0.514 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 19621

Ion	Ratio	Lower	Upper
91	100		
106	42.0	20.9	62.8



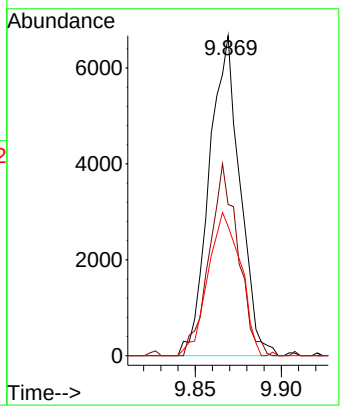


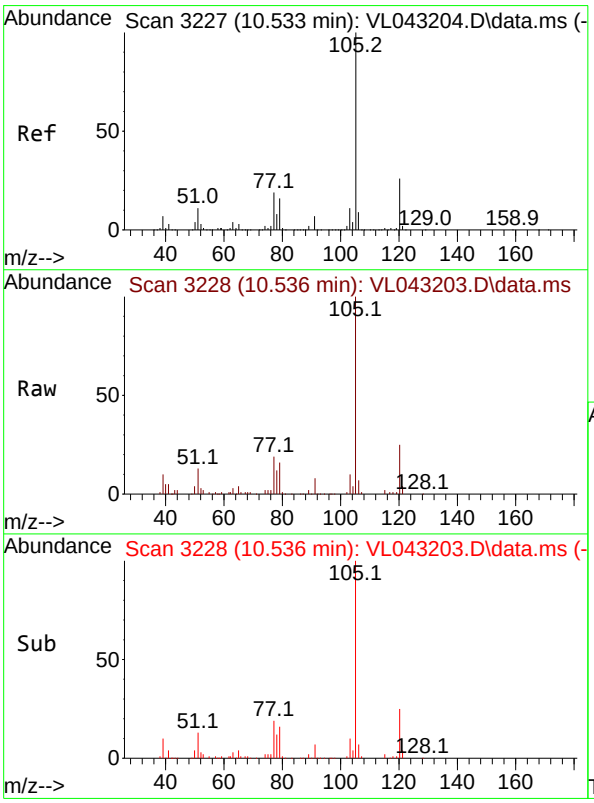
#61
Styrene
Concen: 0.496 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:104 Resp: 8287

Ion	Ratio	Lower	Upper
104	100		
78	56.3	42.1	63.1
103	47.8	37.2	55.8

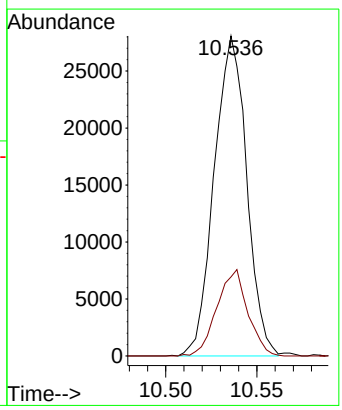


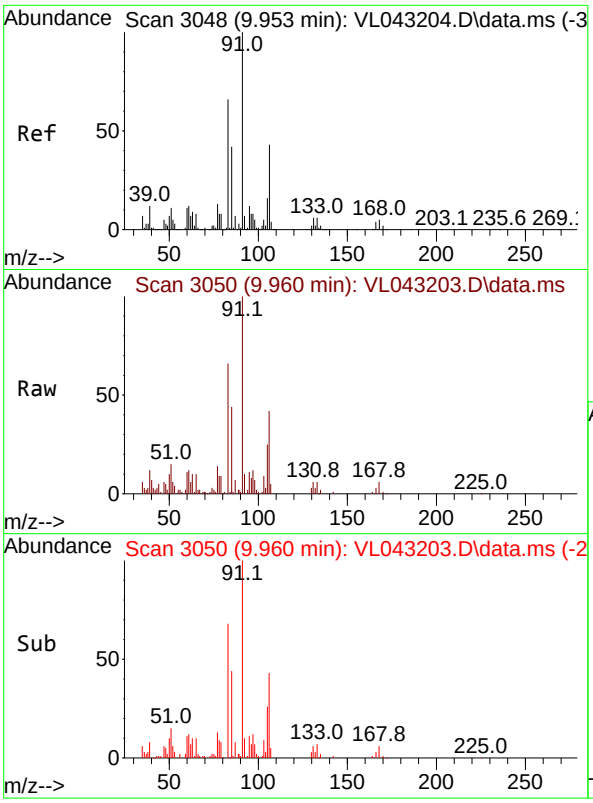


#62
Isopropylbenzene
Concen: 0.509 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 34773

Ion	Ratio	Lower	Upper
105	100		
120	25.6	19.8	29.8



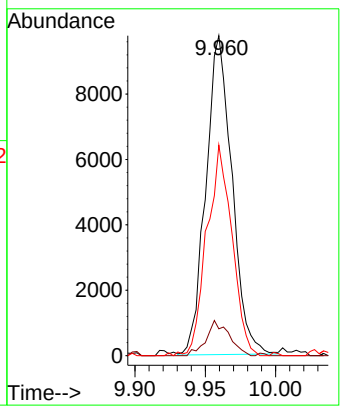


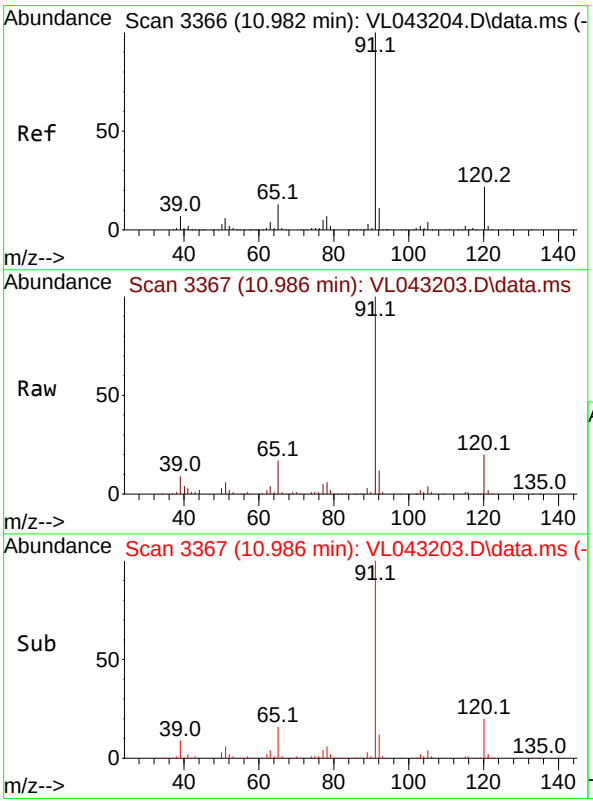
#63
1,1,2,2-Tetrachloroethane
Concen: 0.519 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 83 Resp: 12591

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.3
85	64.0	31.9	95.9

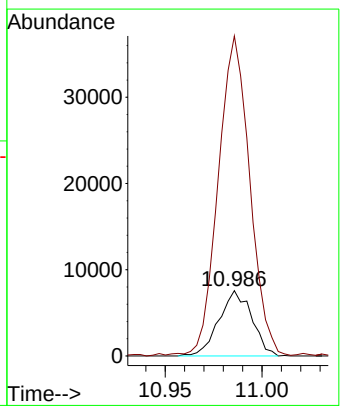


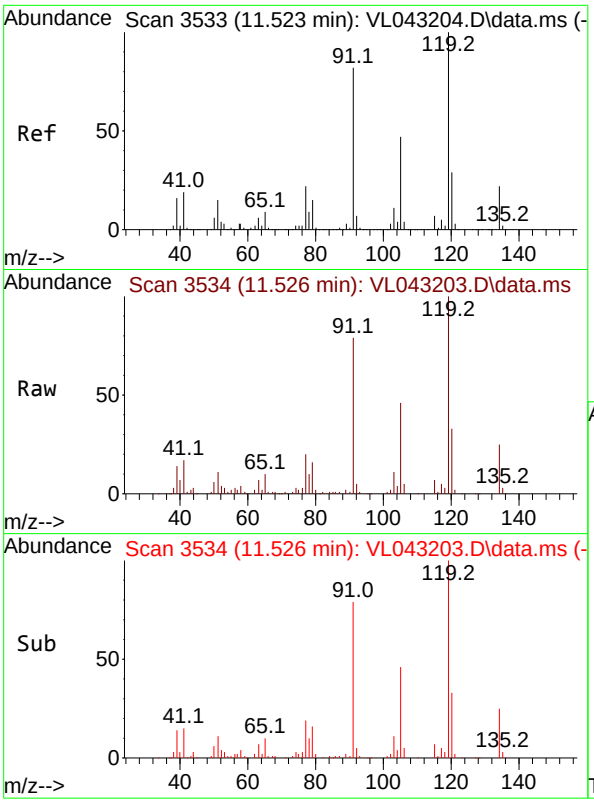


#64
n-propylbenzene
Concen: 0.509 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:120 Resp: 8945

Ion	Ratio	Lower	Upper
120	100		
91	472.3	377.1	565.7



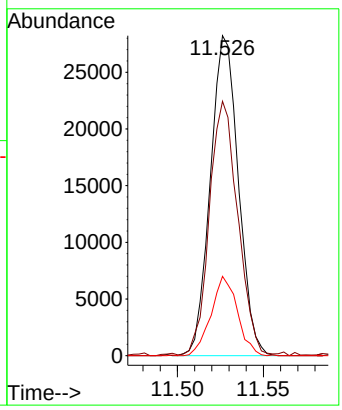


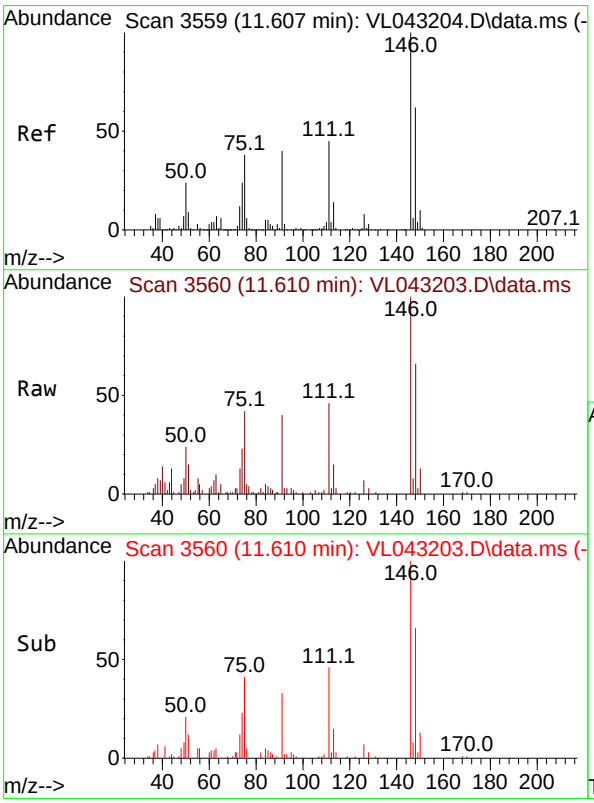
#65
tert-Butylbenzene
Concen: 0.524 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:119 Resp: 31998

Ion	Ratio	Lower	Upper
119	100		
91	81.6	65.3	97.9
134	23.4	17.0	25.4

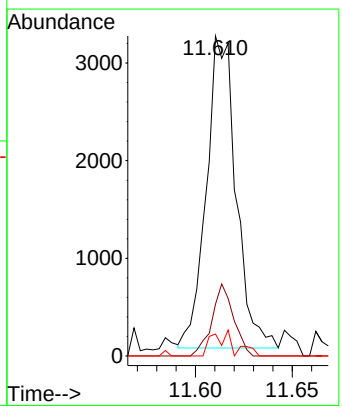


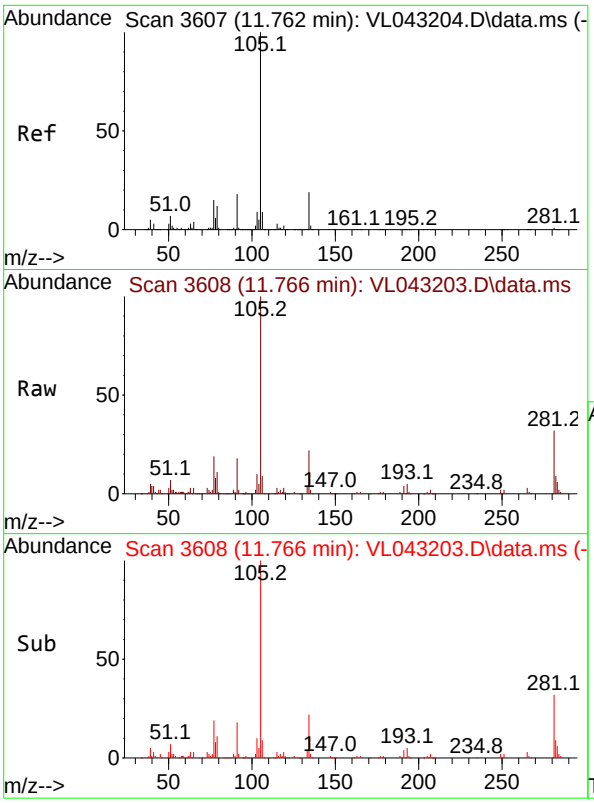


#66
Benzyl Chloride
Concen: 0.550 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 3403

Ion	Ratio	Lower	Upper
91	100		
126	16.8	14.4	21.6
128	6.1	4.6	6.8



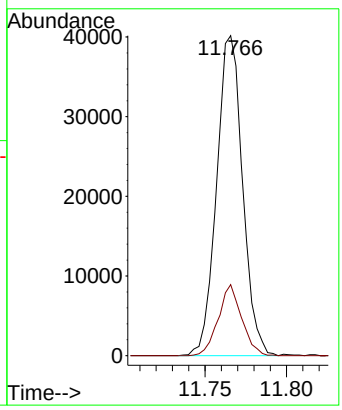


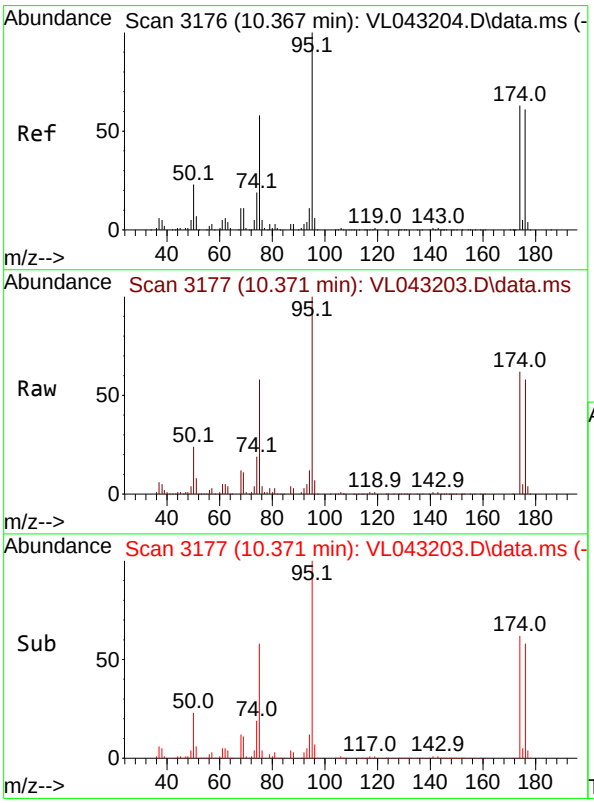
#67
sec-Butylbenzene
Concen: 0.522 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 44448

Ion	Ratio	Lower	Upper
105	100		
134	20.0	15.0	22.6

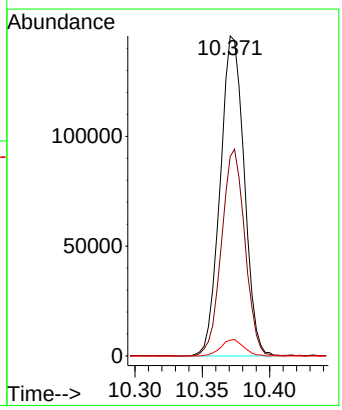


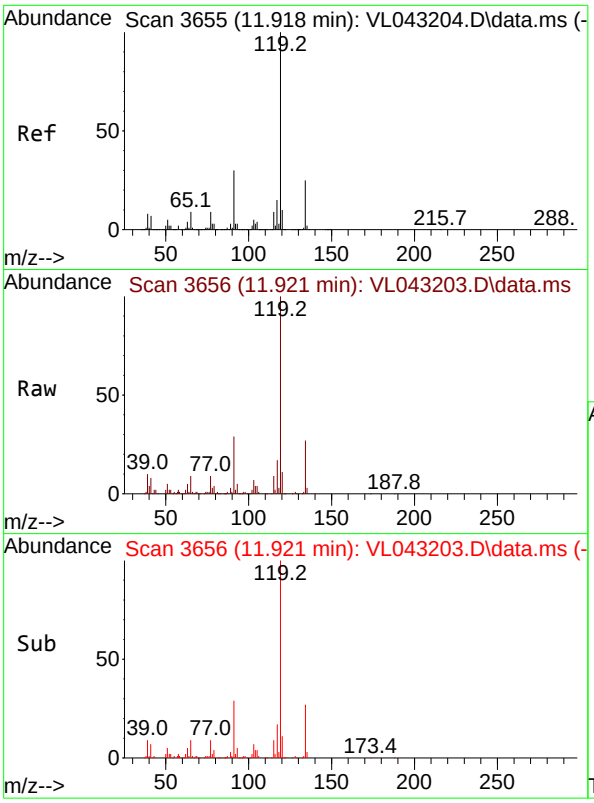


#68
1-Bromo-4-Fluorobenzene
Concen: 9.941 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 95 Resp: 180529

Ion	Ratio	Lower	Upper
95	100		
174	63.2	50.2	75.2
175	4.9	4.1	6.1



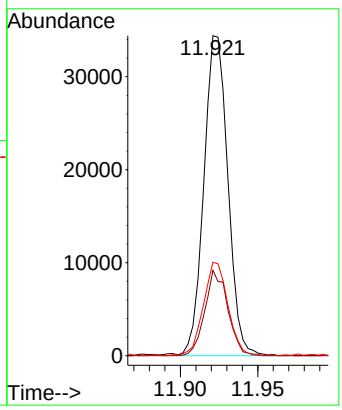


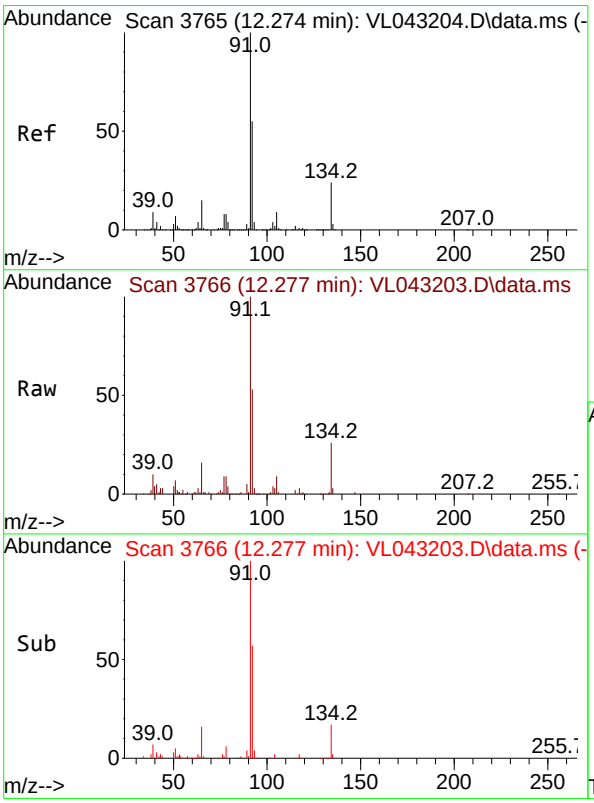
#69
p-Isopropyltoluene
Concen: 0.514 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:119 Resp: 37087

Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.2	30.2
91	29.9	23.8	35.8

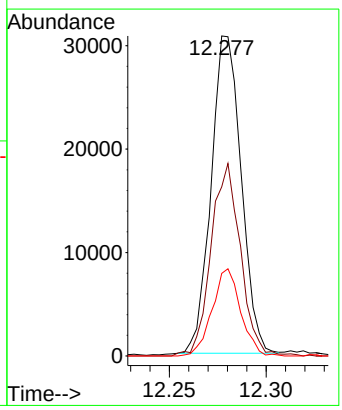


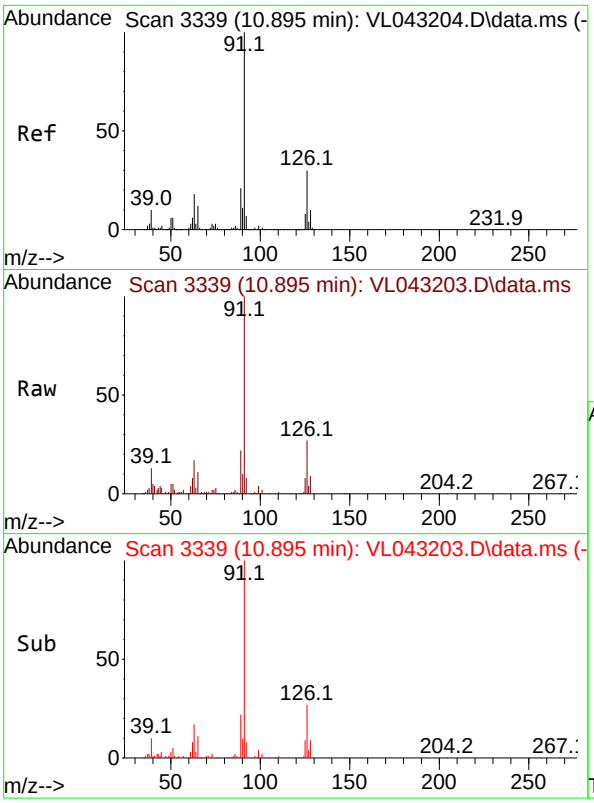


#70
n-Butylbenzene
Concen: 0.474 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion: 91 Resp: 33153

Ion	Ratio	Lower	Upper
91	100		
92	59.3	43.5	65.3
134	26.3	19.0	28.6



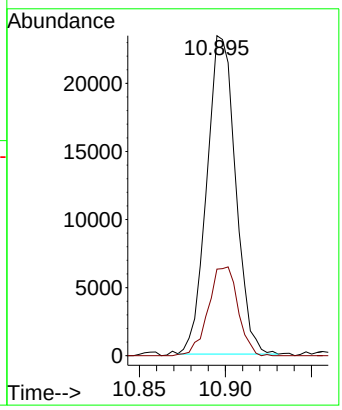


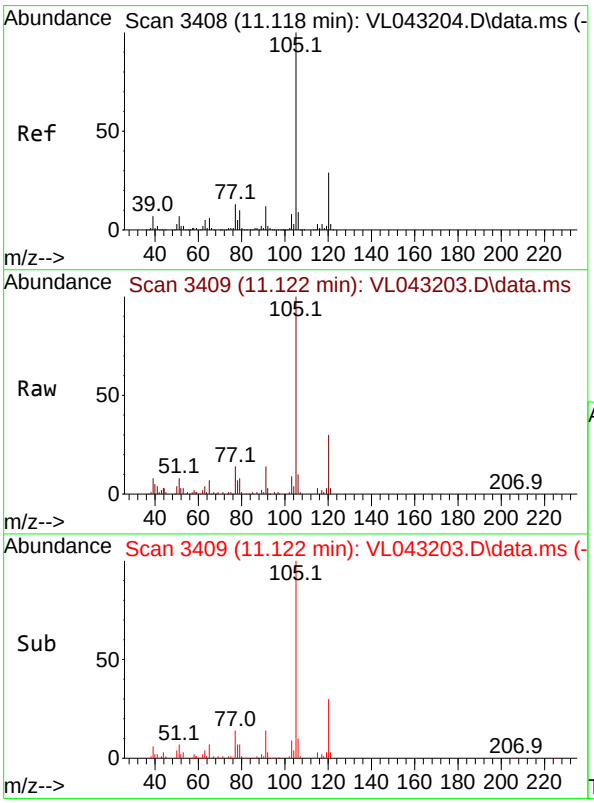
#71
2-Chlorotoluene
Concen: 0.518 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 27224

Ion	Ratio	Lower	Upper
91	100		
126	28.6	11.7	46.7

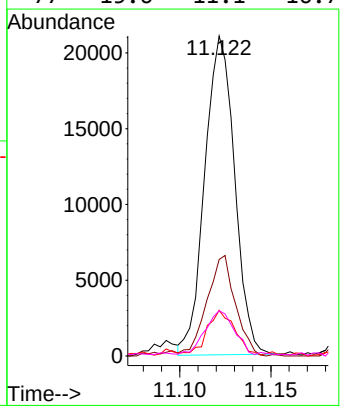


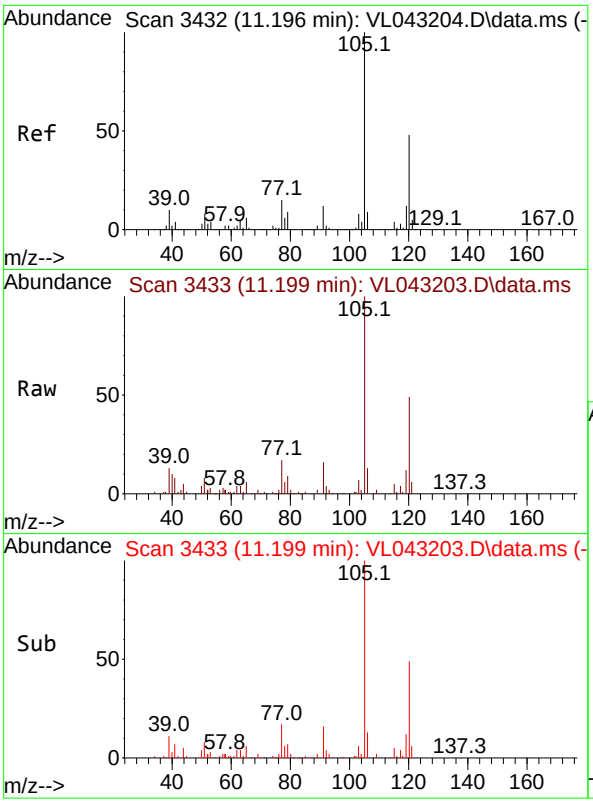


#72
4-Ethyltoluene
Concen: 0.515 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 23963

Ion	Ratio	Lower	Upper
105	100		
120	31.3	23.8	35.8
91	14.6	10.3	15.5
77	15.6	11.1	16.7



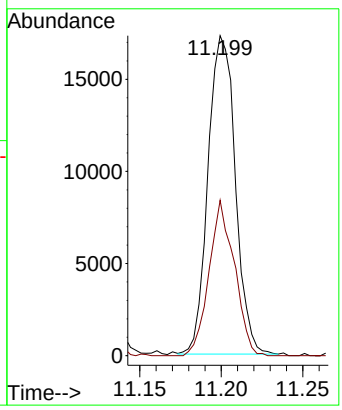


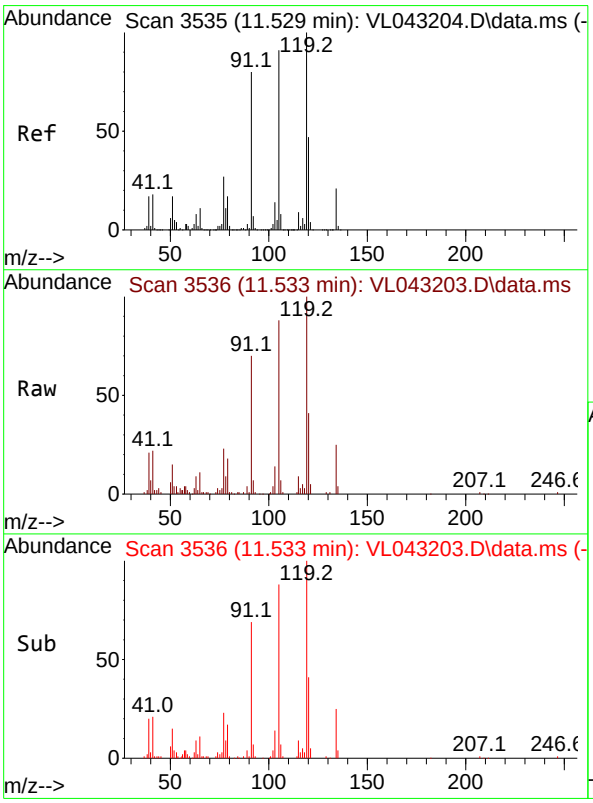
#73
1,3,5-Trimethylbenzene
Concen: 0.515 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:105 Resp: 20104

Ion	Ratio	Lower	Upper
105	100		
120	48.8	38.6	57.8

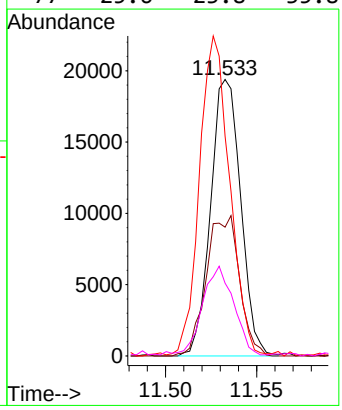


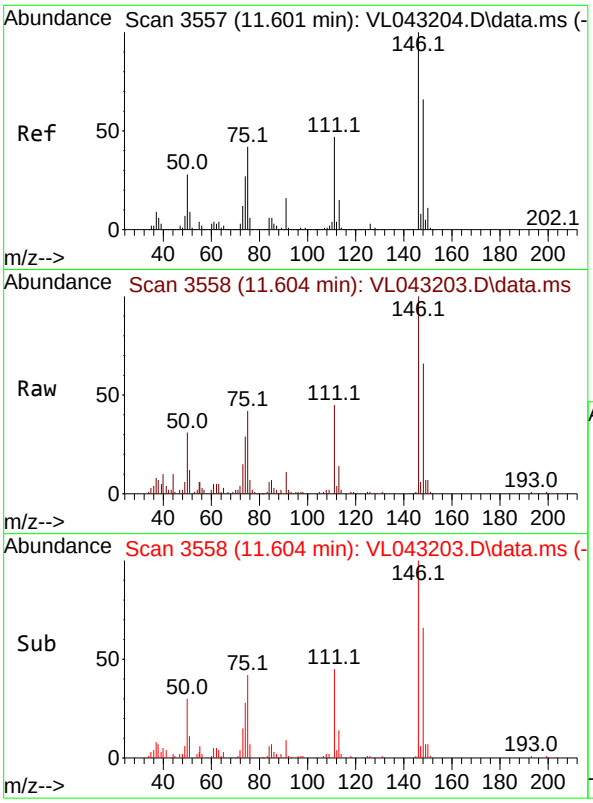


#74
1,2,4-Trimethylbenzene
Concen: 0.522 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:105 Resp: 22254

Ion	Ratio	Lower	Upper
105	100		
120	46.6	41.7	62.5
91	77.8	70.0	105.0
77	25.6	23.8	35.8



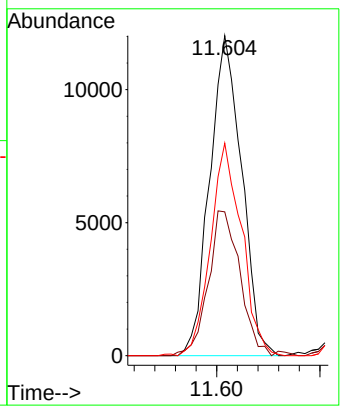


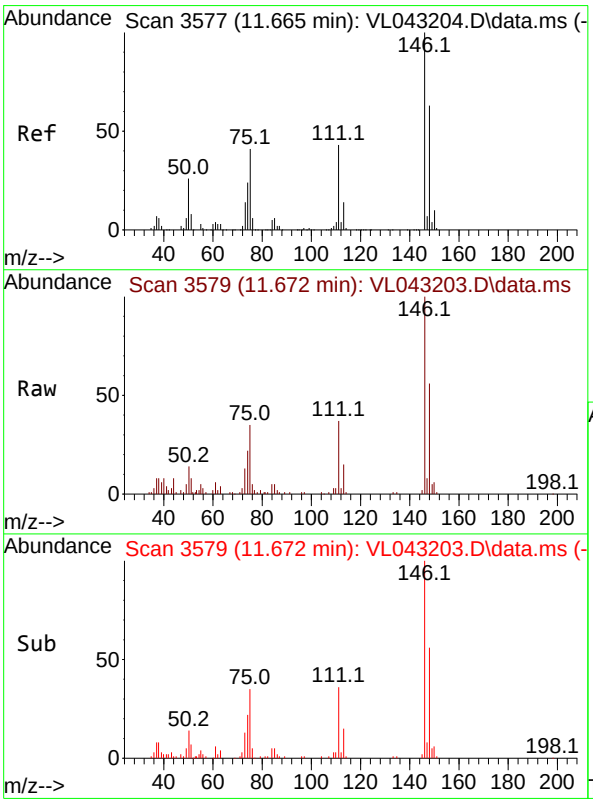
#75
1,3-Dichlorobenzene
Concen: 0.520 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 12926

Ion	Ratio	Lower	Upper
146	100		
111	45.1	23.4	70.3
148	64.7	31.6	95.0

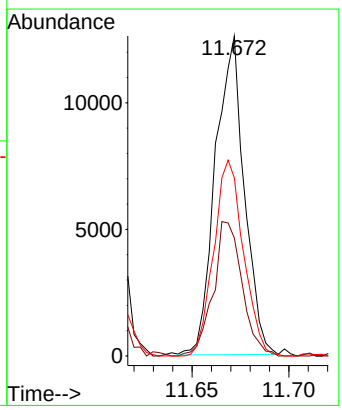


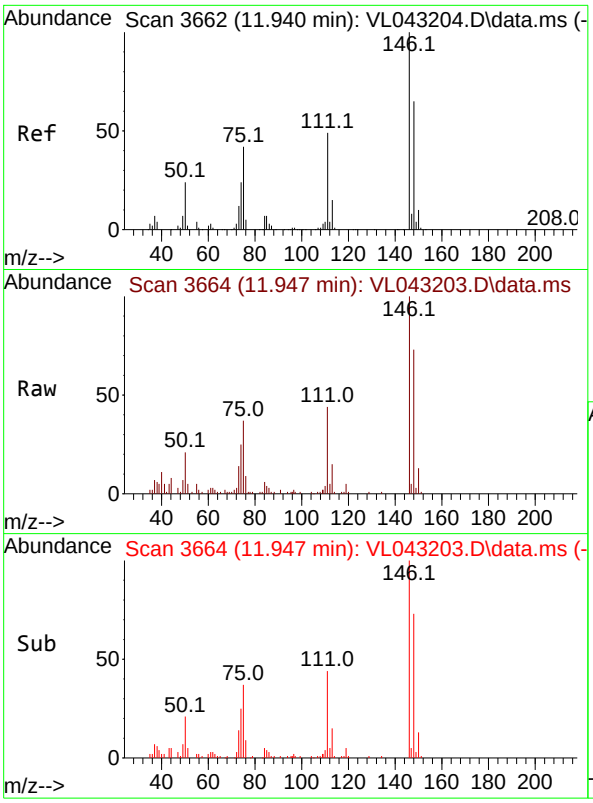


#76
1,4-Dichlorobenzene
Concen: 0.526 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:146 Resp: 13076

Ion	Ratio	Lower	Upper
146	100		
111	42.1	22.8	68.3
148	63.8	31.8	95.4



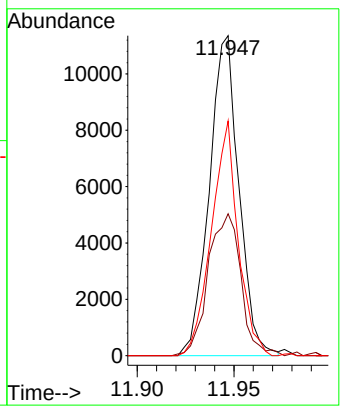


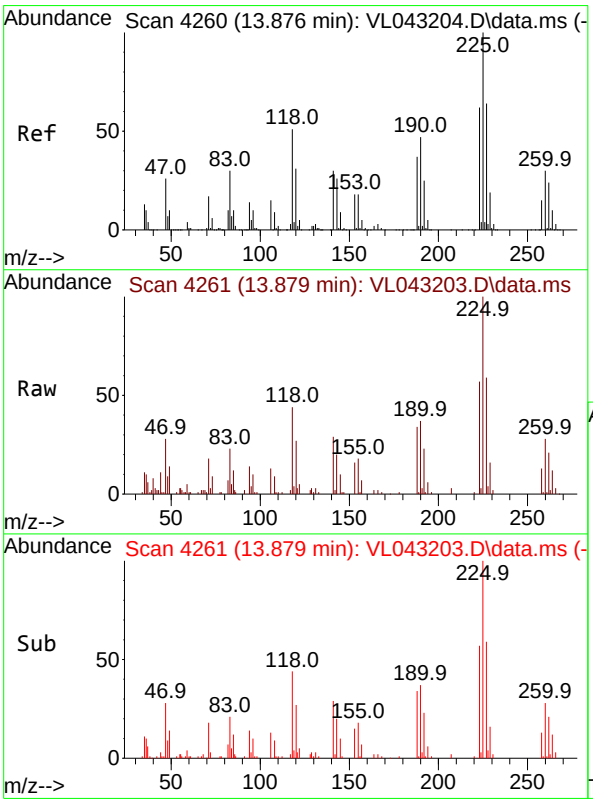
#77
1,2-Dichlorobenzene
Concen: 0.505 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:146 Resp: 12069

Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.3	73.0
148	66.3	31.6	94.7

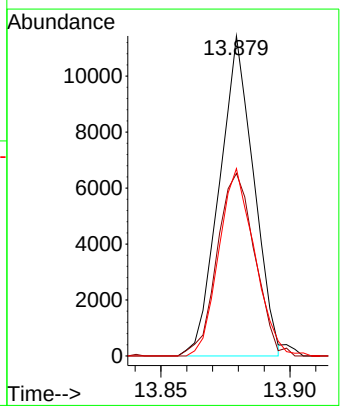


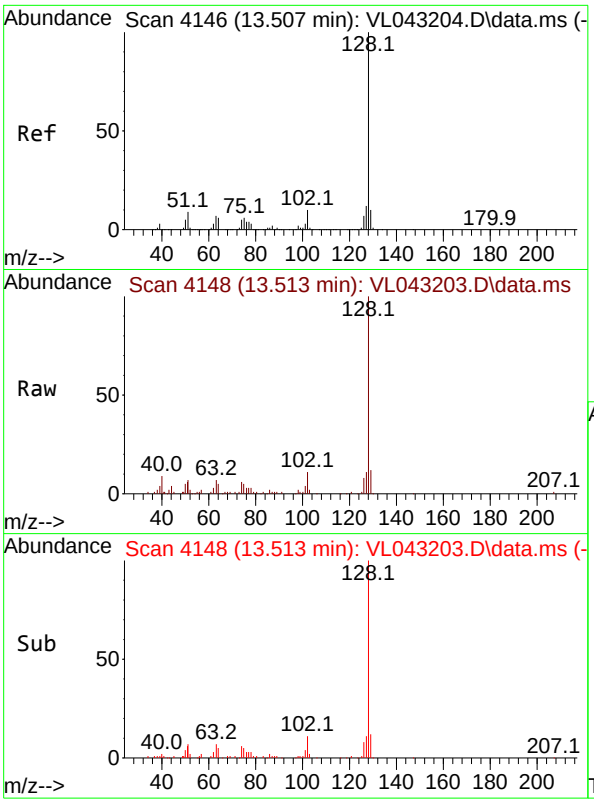


#78
Hexachloro-1,3-Butadiene
Concen: 0.530 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:225 Resp: 10578

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.4
227	61.0	51.1	76.7



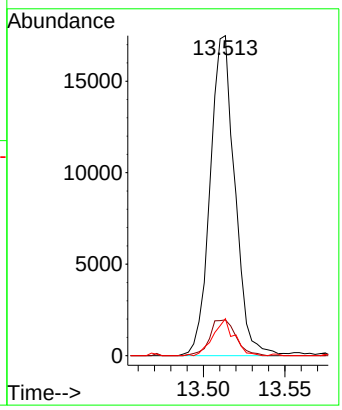


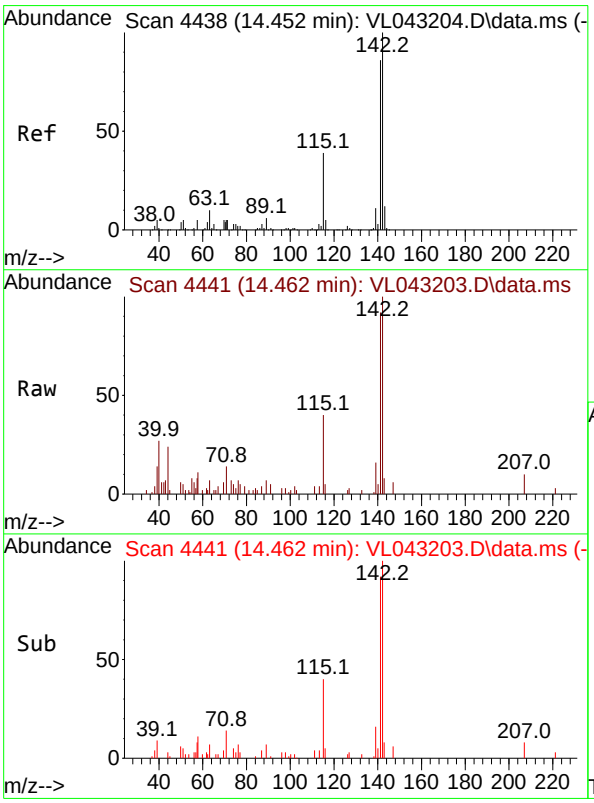
#79
Naphthalene
Concen: 0.486 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:128 Resp: 18377

Ion	Ratio	Lower	Upper
128	100		
127	11.2	9.9	14.9
129	11.5	8.4	12.6

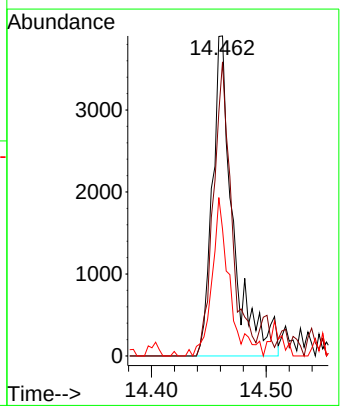


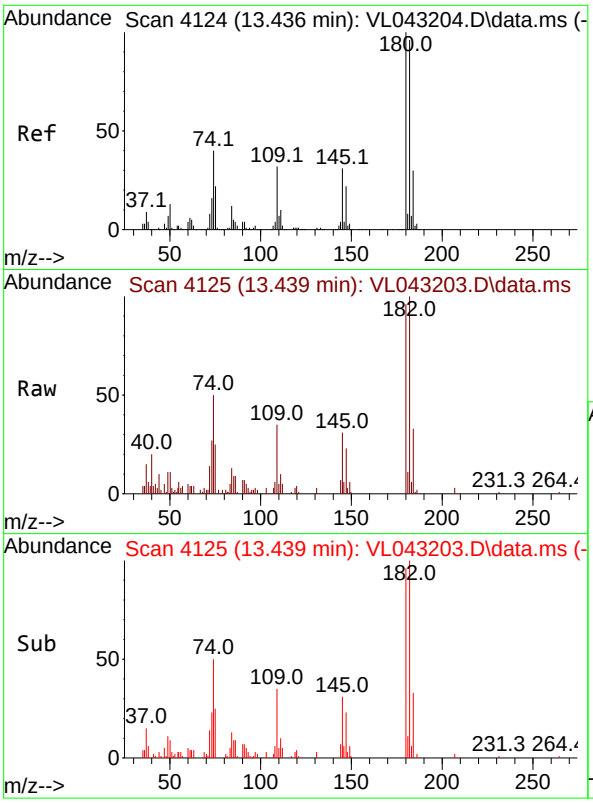


#80
Naphthalene,2-methyl-
Concen: 0.495 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.010 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Tgt Ion:142 Resp: 4917

Ion	Ratio	Lower	Upper
142	100		
141	90.2	67.1	100.7
115	47.3	31.9	47.9



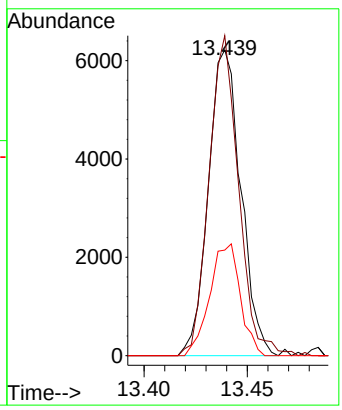


#81
1,2,4-Trichlorobenzene
Concen: 0.402 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043203.D
Acq: 18 Nov 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:180 Resp: 6798

Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.4	116.2
184	34.3	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043204.D
Acq On : 18 Nov 2025 10:02
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Nov 19 00:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	105095	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	283830	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	234772	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	172524	10.025	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	140789	9.498	ppbv		100
3) Chlorodifluoromethane	1.473	51	138443	9.497	ppbv		100
4) Chloromethane	1.531	50	52372	9.450	ppbv		100
5) Vinyl Chloride	1.577	62	51045	8.422	ppbv		100
6) Bromomethane	1.664	94	26542	9.034	ppbv		100
7) Chloroethane	1.700	64	20375	8.632	ppbv		100
8) Dichlorotetrafluoroethane	1.551	85	114670	9.300	ppbv		100
9) Propene	1.480	41	52671	7.789	ppbv	#	1
10) Heptane	4.965	43	168611	9.090	ppbv		100
11) Trichlorofluoromethane	1.875	101	130362	9.077	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.137	101	103679	9.247	ppbv		100
13) Ethanol	1.716	45	17464	8.023	ppbv		100
14) Bromoethene	1.777	108	38037	8.849	ppbv		100
15) Acetone	1.832	43	108422	7.426	ppbv		100
16) 1,3-Butadiene	1.606	39	57871	8.890	ppbv		100
17) tert-Butyl alcohol	2.036	59	179201	9.350	ppbv		100
18) 1,1-Dichloroethene	2.030	96	46313	8.871	ppbv		100
19) Isopropyl Alcohol	1.881	45	71862	8.710	ppbv		100
20) Methylene Chloride	2.056	84	41868	9.708	ppbv		100
21) Allyl Chloride	2.091	41	89266	9.087	ppbv		100
22) trans-1,2-Dichloroethene	2.334	96	52470	8.793	ppbv		100
23) Vinyl Acetate	2.457	43	170459	9.670	ppbv		100
24) 1,1-Dichloroethane	2.405	63	106970	9.287	ppbv		100
25) Ethyl Acetate	2.829	43	289921	9.190	ppbv		100
26) Hexane	2.820	57	129809	9.402	ppbv		100
27) Carbon Disulfide	2.146	76	132086	9.371	ppbv		100
28) Methyl tert-Butyl Ether	2.434	73	62115	9.165	ppbv		100
29) Chloroform	2.842	83	187620	9.561	ppbv		100
30) Cyclohexane	3.846	84	107621	9.297	ppbv		100
31) cis-1,2-Dichloroethene	2.716	61	130357	9.499	ppbv		100
32) 1,1,1-Trichloroethane	3.360	97	198036	9.381	ppbv		100
34) 2-Butanone	2.551	43	182749	9.121	ppbv		100
35) Carbon Tetrachloride	3.755	117	200831	9.322	ppbv		100
36) Benzene	3.648	78	256954	9.453	ppbv		100
37) 1,2-Dichloroethane	3.211	62	150769	9.483	ppbv		100
38) Trichloroethene	4.535	130	100136	9.398	ppbv		100
39) 1,2-Dichloropropane	4.302	63	95097	9.559	ppbv		100
40) 1,4-Dioxane	4.567	88	40441	9.043	ppbv	#	100
41) Tetrahydrofuran	3.046	42	104294	9.426	ppbv		100
42) Bromodichloromethane	4.477	83	211504	9.643	ppbv		100
43) Methyl Methacrylate	4.865	69	131003	9.080	ppbv		100
44) 2,2,4-Trimethylpentane	4.626	57	441234	9.451	ppbv		100
45) t-1,3-Dichloropropene	6.399	75	129122	9.601	ppbv		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043204.D
Acq On : 18 Nov 2025 10:02
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Nov 19 00:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

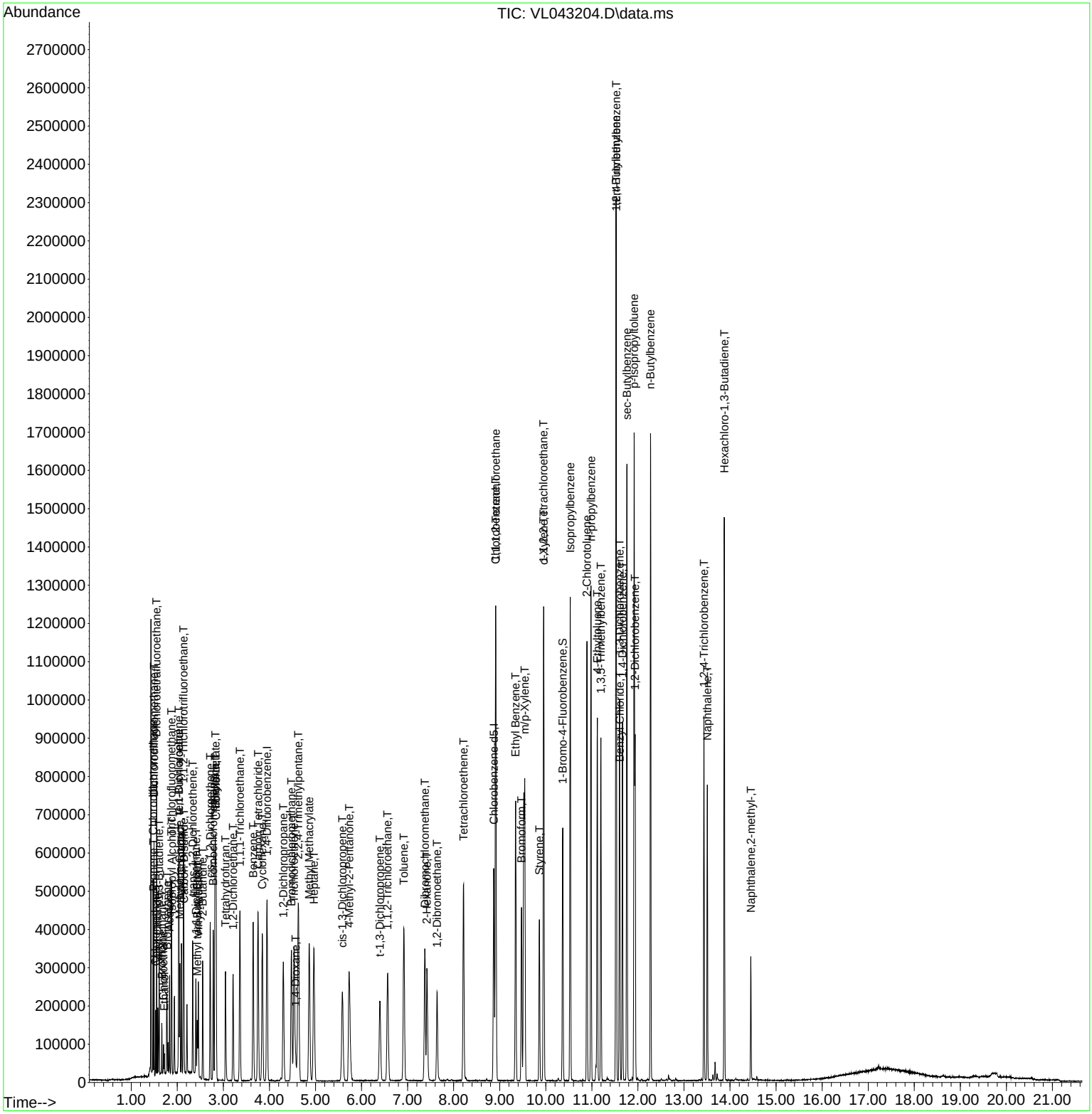
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.584	75	151655	9.603	ppbv		100
47) 1,1,2-Trichloroethane	6.564	97	97512	9.193	ppbv		100
48) Dibromochloromethane	7.377	129	175529	9.670	ppbv		100
49) Bromoform	9.474	173	157563	9.800	ppbv		100
50) 4-Methyl-2-Pentanone	5.733	43	268369	9.509	ppbv		100
51) 2-Hexanone	7.419	43	208268	9.503	ppbv	#	100
52) Tetrachloroethene	8.212	164	93518	9.249	ppbv		100
53) Toluene	6.920	91	305169	9.422	ppbv		100
54) 1,2-Dibromoethane	7.639	107	148973	9.588	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.914	131	158856	9.207	ppbv		100
57) Chlorobenzene	8.911	112	227490	9.438	ppbv		100
58) Ethyl Benzene	9.345	91	427530	9.461	ppbv		100
59) m/p-Xylene	9.542	91	316603	8.707	ppbv	#	22
60) o-Xylene	9.956	91	333044	9.202	ppbv		100
61) Styrene	9.863	104	152172	9.607	ppbv		100
62) Isopropylbenzene	10.533	105	600155	9.269	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.953	83	209272	9.109	ppbv		100
64) n-propylbenzene	10.982	120	154239	9.271	ppbv		100
65) tert-Butylbenzene	11.523	119	522106	9.029	ppbv		100
66) Benzyl Chloride	11.607	91	56620	9.649	ppbv		100
67) sec-Butylbenzene	11.762	105	729573	9.039	ppbv		100
69) p-Isopropyltoluene	11.918	119	624586	9.135	ppbv		100
70) n-Butylbenzene	12.274	91	619610	9.341	ppbv		100
71) 2-Chlorotoluene	10.895	91	460118	9.245	ppbv		100
72) 4-Ethyltoluene	11.118	105	410587	9.316	ppbv		100
73) 1,3,5-Trimethylbenzene	11.196	105	341900	9.244	ppbv		100
74) 1,2,4-Trimethylbenzene	11.529	105	363476	9.005	ppbv		100
75) 1,3-Dichlorobenzene	11.601	146	219894	9.335	ppbv		100
76) 1,4-Dichlorobenzene	11.665	146	220576	9.363	ppbv		100
77) 1,2-Dichlorobenzene	11.940	146	204826	9.044	ppbv		100
78) Hexachloro-1,3-Butadiene	13.876	225	161034	8.520	ppbv		100
79) Naphthalene	13.507	128	351148	9.795	ppbv		100
80) Naphthalene,2-methyl-	14.452	142	93113	9.895	ppbv		100
81) 1,2,4-Trichlorobenzene	13.436	180	159091	9.923	ppbv		100

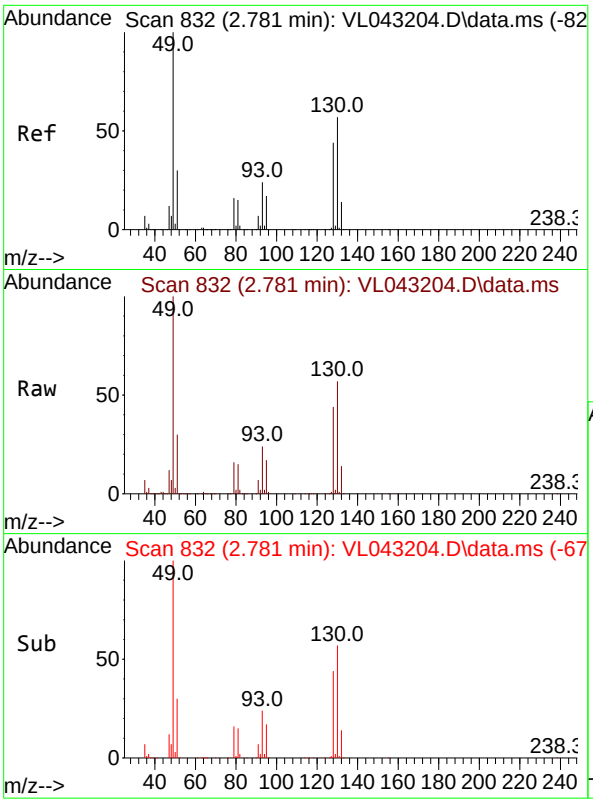
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043204.D
Acq On : 18 Nov 2025 10:02
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Nov 19 00:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration



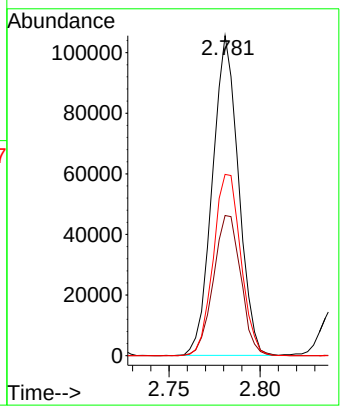


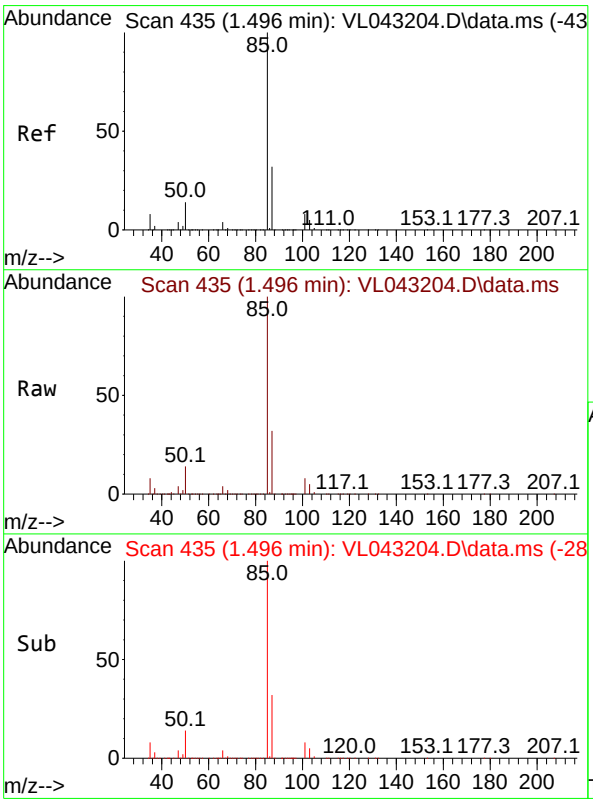
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 49 Resp: 105095

Ion	Ratio	Lower	Upper
49	100		
128	46.0	23.0	69.0
130	59.8	29.9	89.7

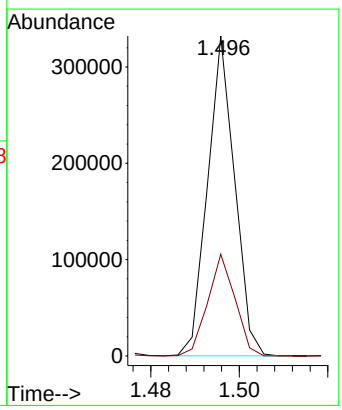


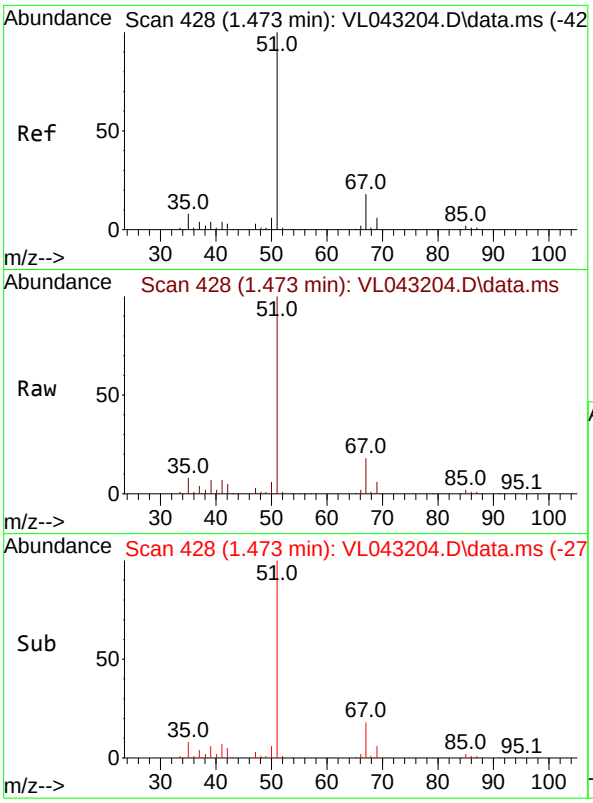


#2
Dichlorodifluoromethane
Concen: 9.498 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 85 Resp: 140789

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.4	38.2



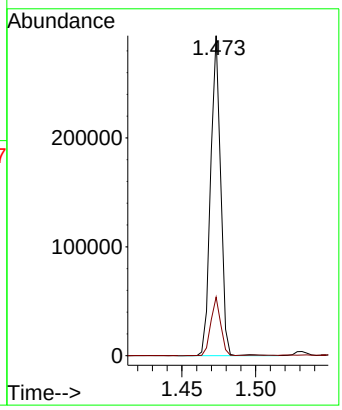


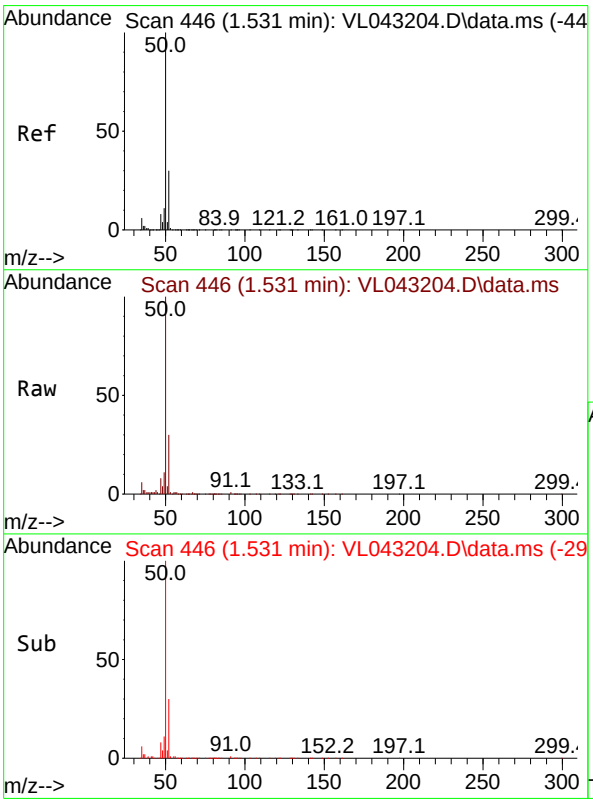
#3
Chlorodifluoromethane
Concen: 9.497 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 138443

Ion	Ratio	Lower	Upper
51	100		
67	18.6	14.9	22.3

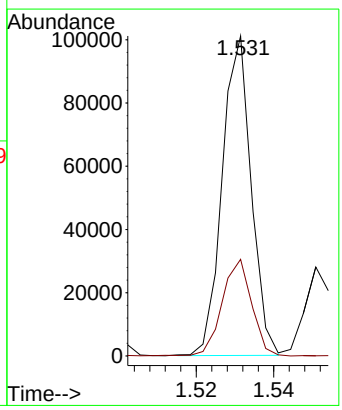


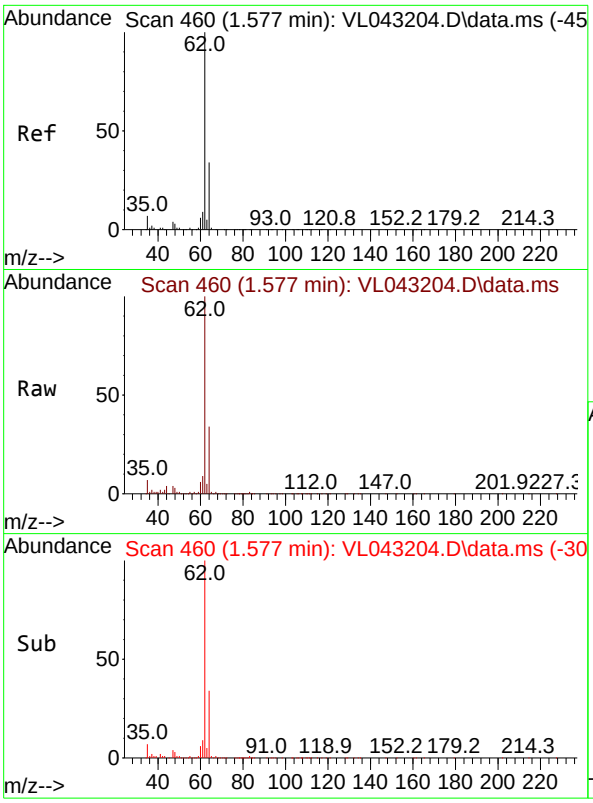


#4
Chloromethane
Concen: 9.450 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 50 Resp: 52372

Ion	Ratio	Lower	Upper
50	100		
52	30.1	24.1	36.1



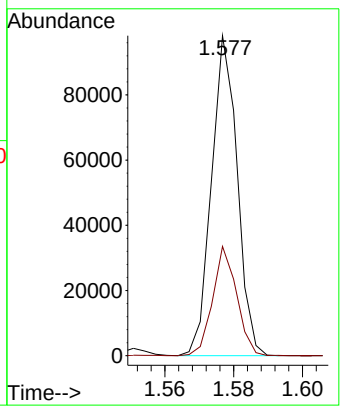


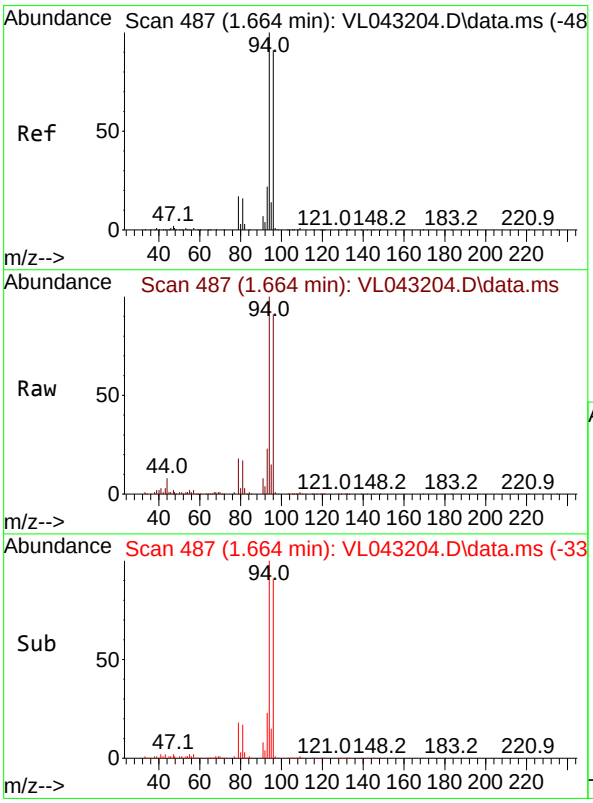
#5
Vinyl Chloride
Concen: 8.422 ppbv
RT: 1.577 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 51045

Ion	Ratio	Lower	Upper
62	100		
64	34.1	27.3	40.9

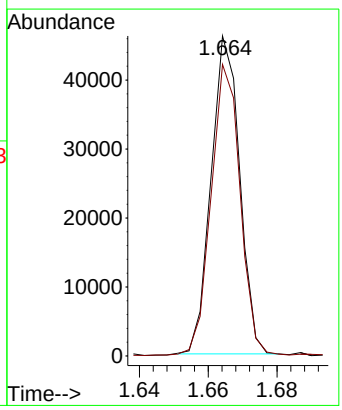


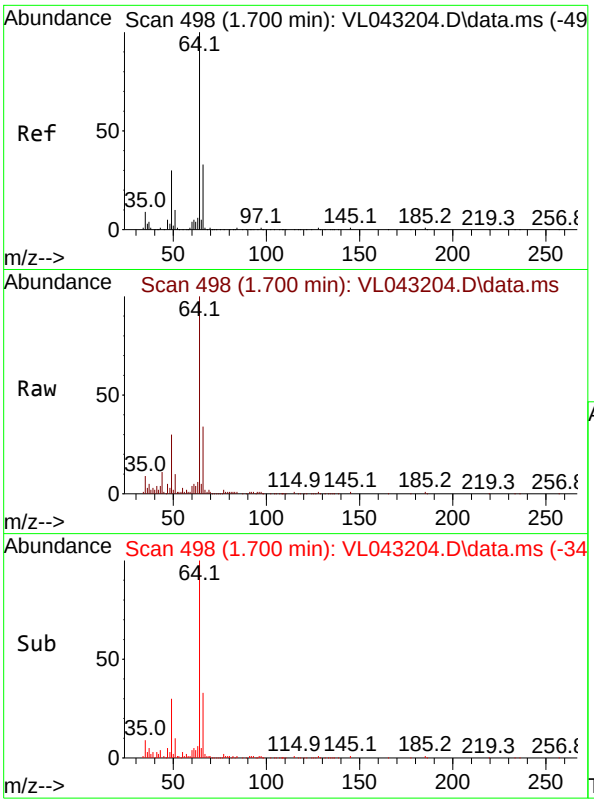


#6
Bromomethane
Concen: 9.034 ppbv
RT: 1.664 min Scan# 487
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 94 Resp: 26542

Ion	Ratio	Lower	Upper
94	100		
96	91.1	72.9	109.3



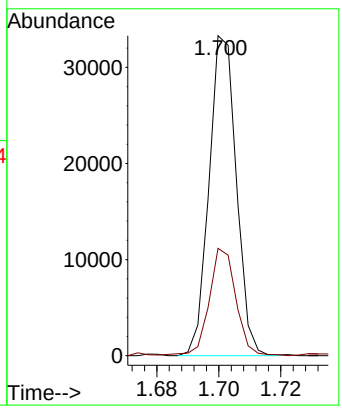


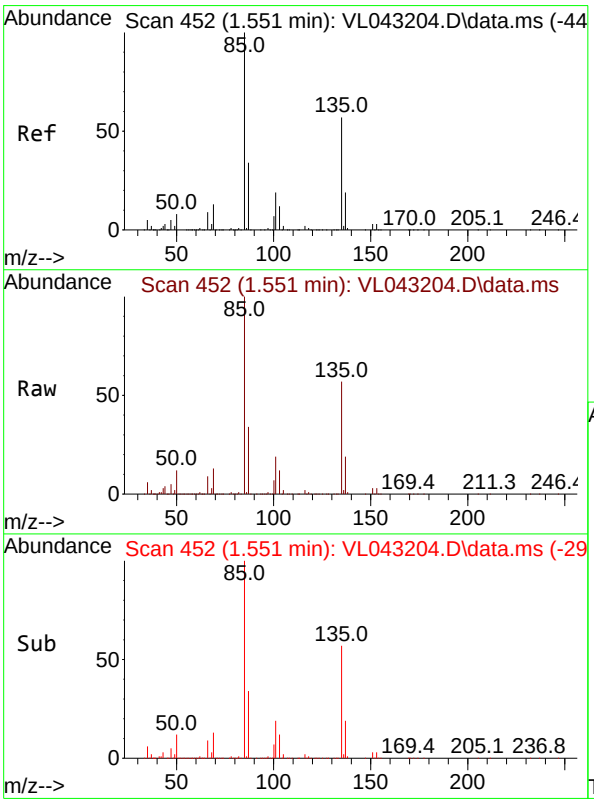
#7
Chloroethane
Concen: 8.632 ppbv
RT: 1.700 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 20375

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.8	40.2

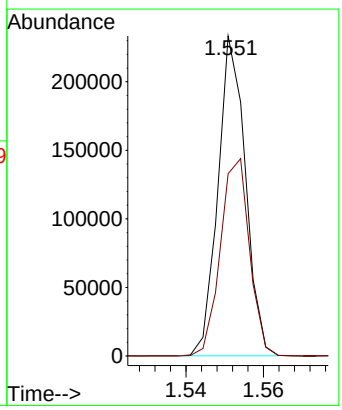


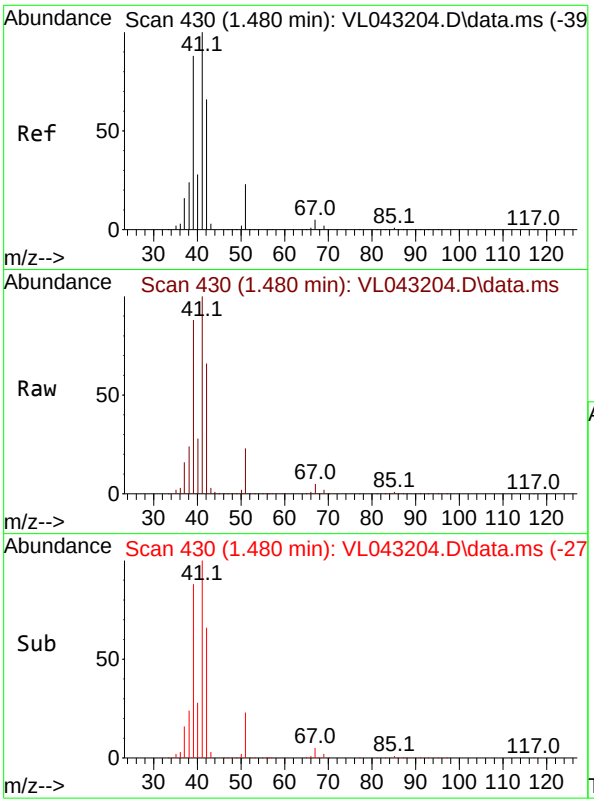


#8
Dichlorotetrafluoroethane
Concen: 9.300 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 85 Resp: 114670

Ion	Ratio	Lower	Upper
85	100		
135	65.8	52.6	79.0



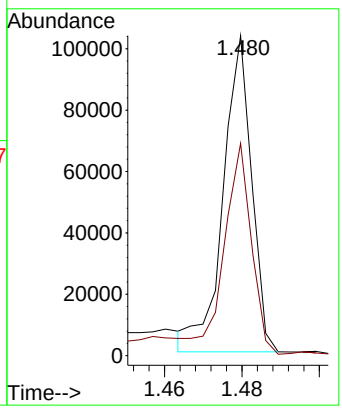


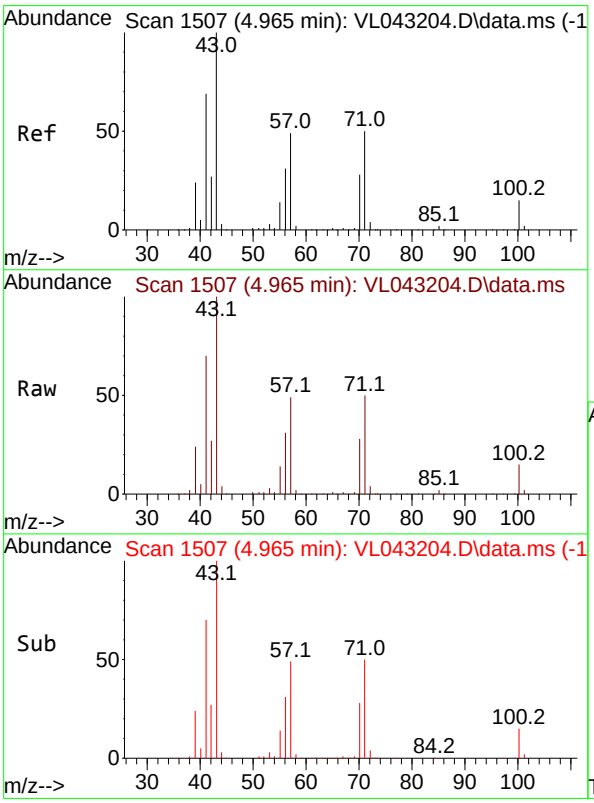
#9
Propene
Concen: 7.789 ppbv
RT: 1.480 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 52671

Ion	Ratio	Lower	Upper
41	100		
42	105.2	3.7	5.5#

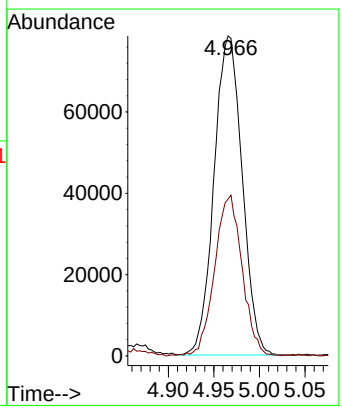


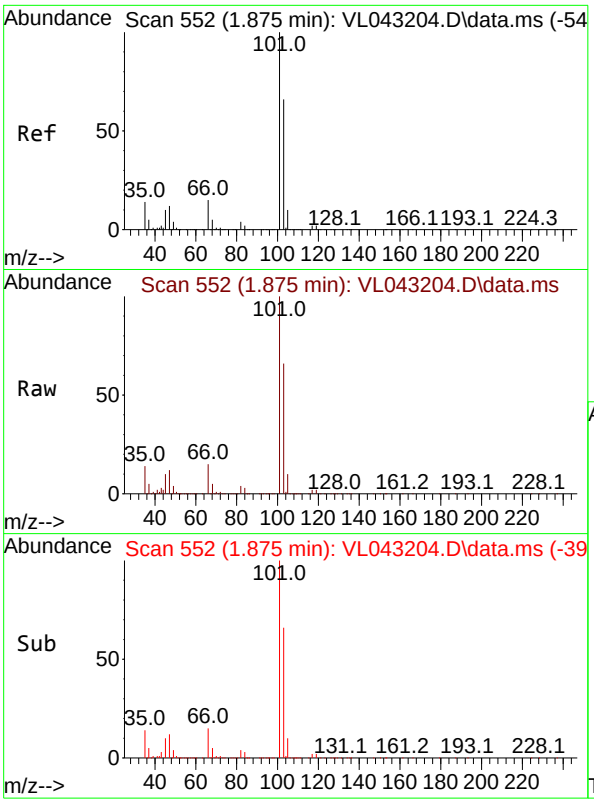


#10
Heptane
Concen: 9.090 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 168611

Ion	Ratio	Lower	Upper
43	100		
57	49.6	39.7	59.5



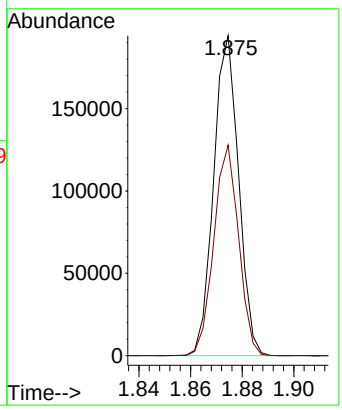


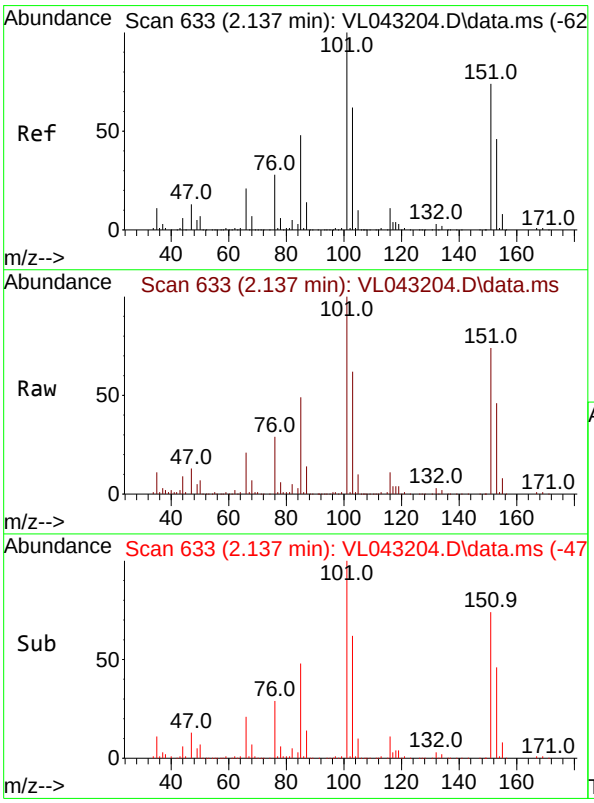
#11
Trichlorofluoromethane
Concen: 9.077 ppbv
RT: 1.875 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 130362

Ion	Ratio	Lower	Upper
101	100		
103	65.8	52.6	79.0

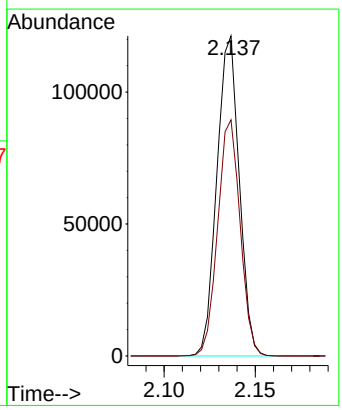


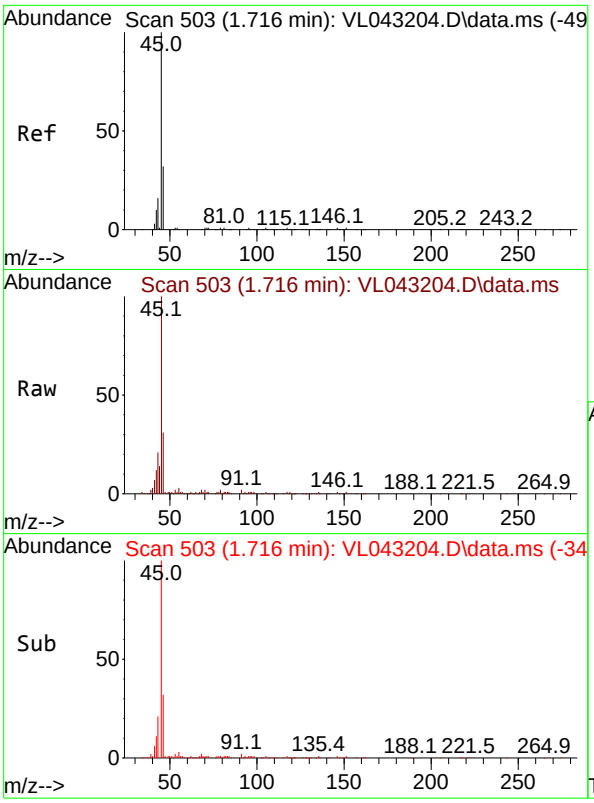


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.247 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:101 Resp: 103679

Ion	Ratio	Lower	Upper
101	100		
151	74.0	59.2	88.8



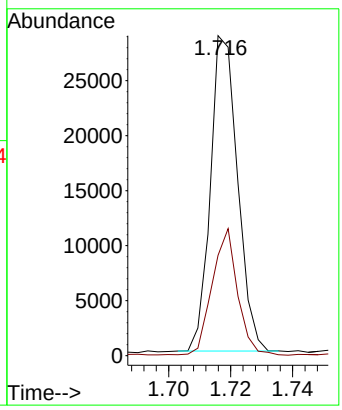


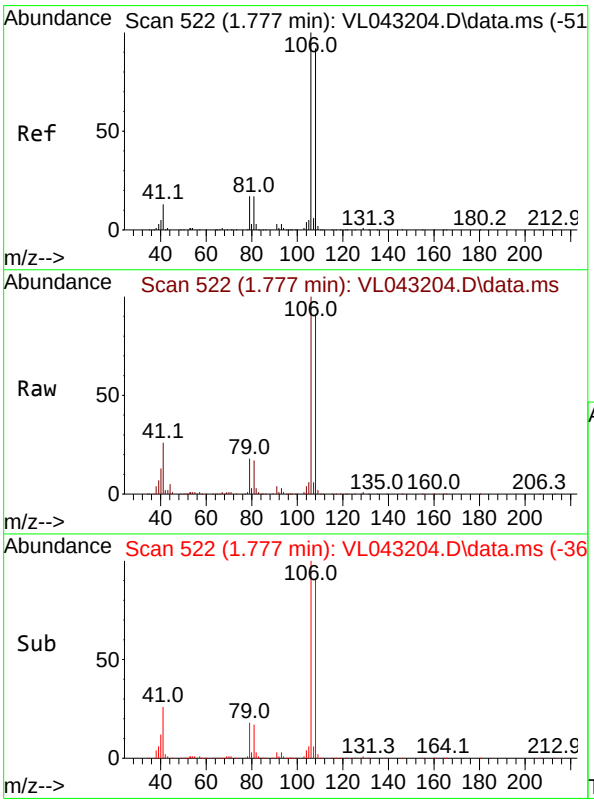
#13
Ethanol
Concen: 8.023 ppbv
RT: 1.716 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 17464

Ion	Ratio	Lower	Upper
45	100		
46	37.4	15.0	59.8

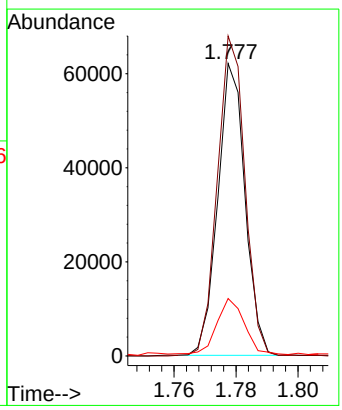


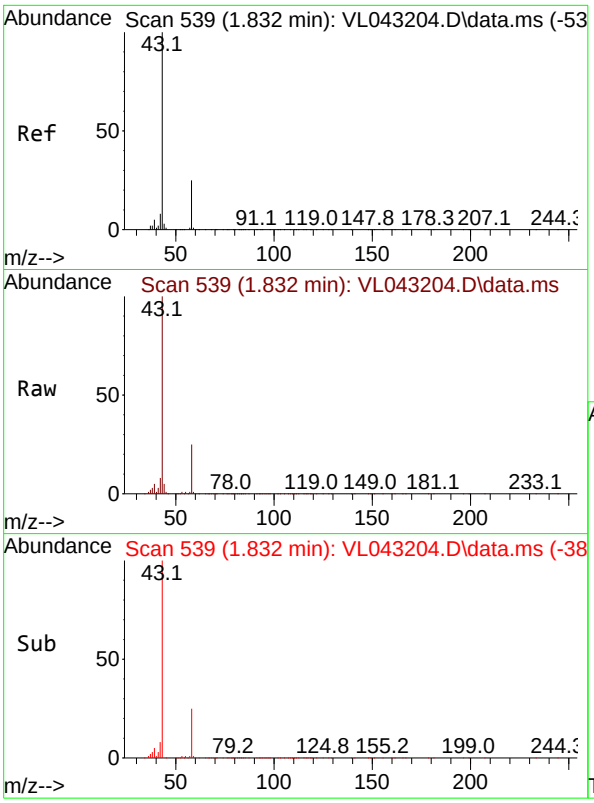


#14
Bromoethene
Concen: 8.849 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:108 Resp: 38037

Ion	Ratio	Lower	Upper
108	100		
106	111.1	88.9	133.3
79	20.6	16.5	24.7



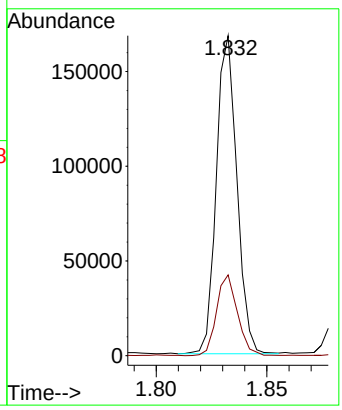


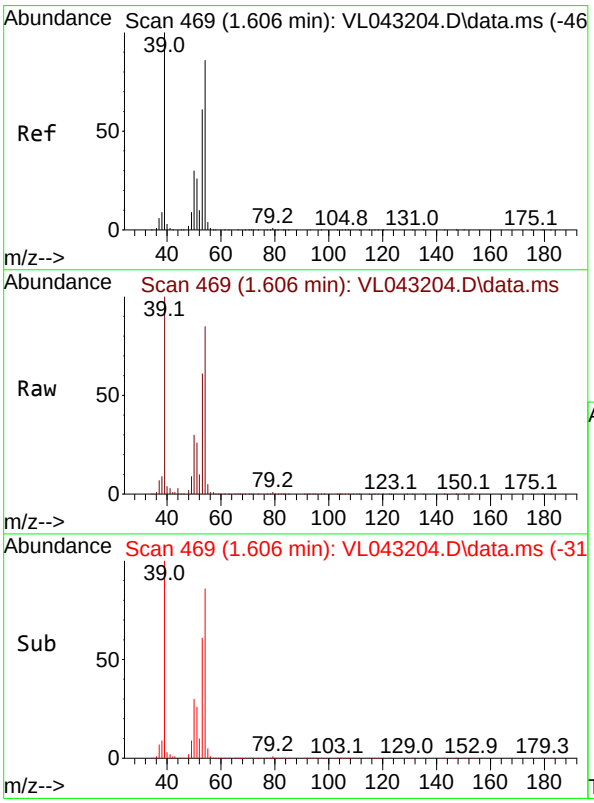
#15
Acetone
Concen: 7.426 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 108422

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1

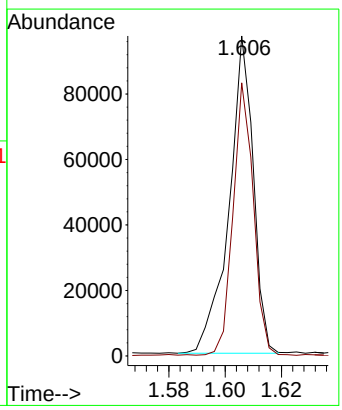


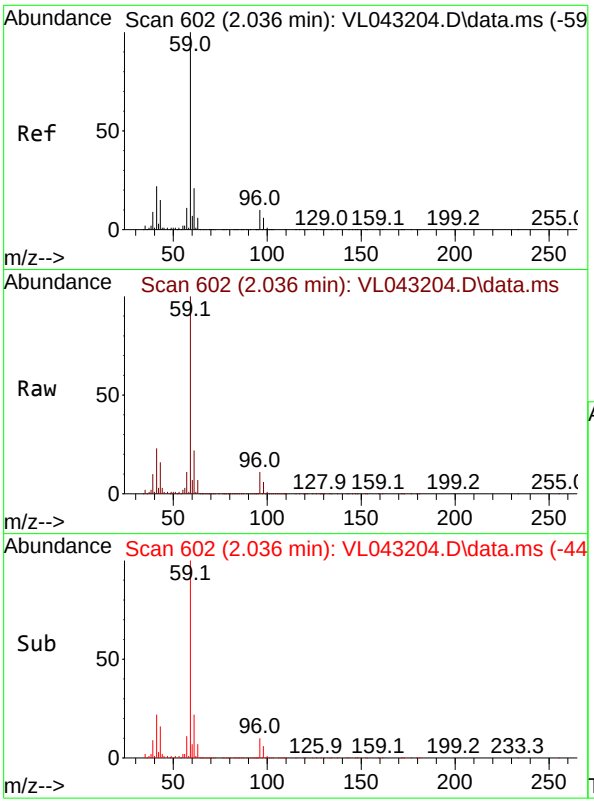


#16
1,3-Butadiene
Concen: 8.890 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 39 Resp: 57871

Ion	Ratio	Lower	Upper
39	100		
54	74.3	59.4	89.2



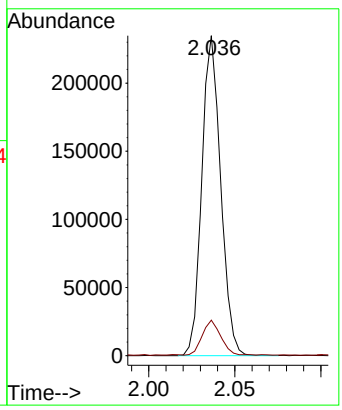


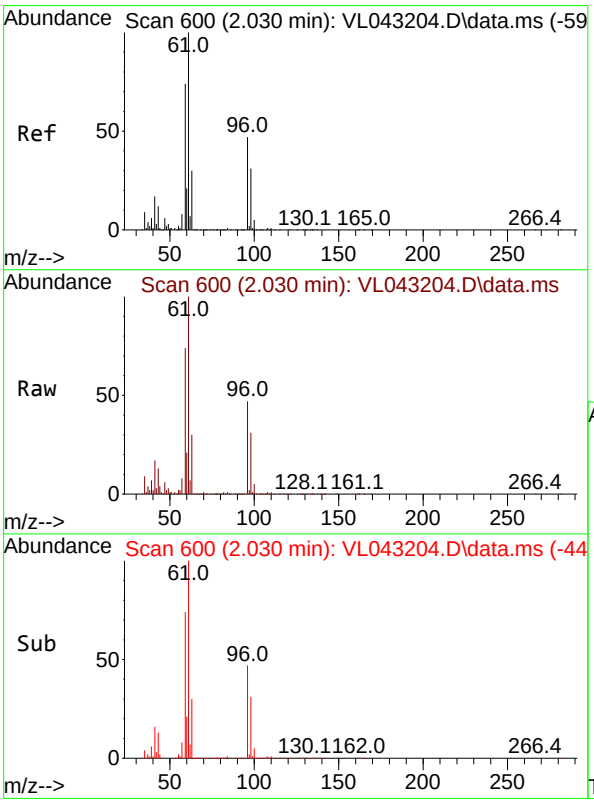
#17
tert-Butyl alcohol
Concen: 9.350 ppbv
RT: 2.036 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 179201

Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.0	13.4

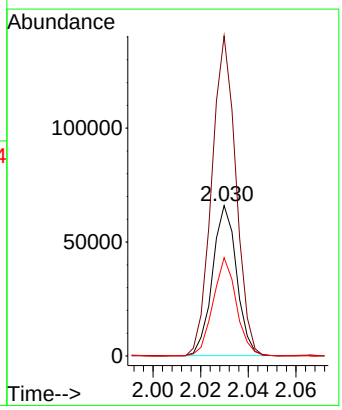


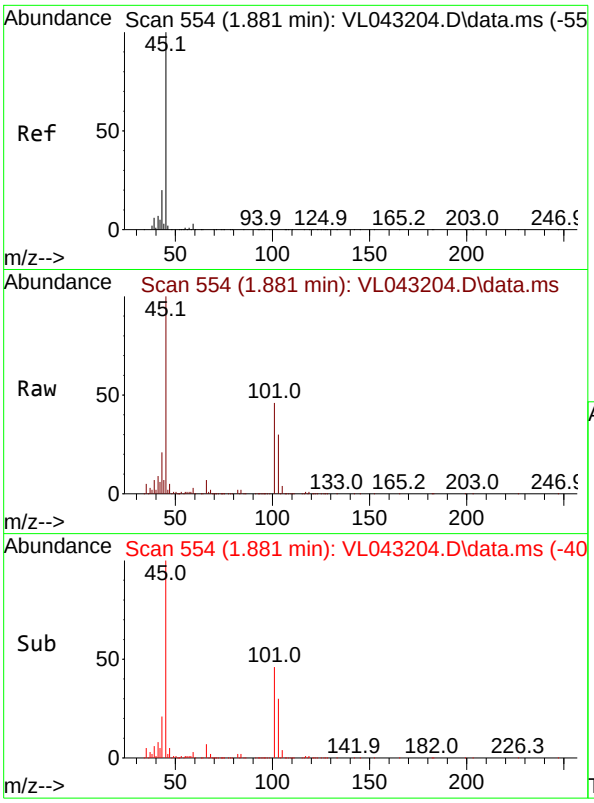


#18
1,1-Dichloroethene
Concen: 8.871 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 96 Resp: 46313

Ion	Ratio	Lower	Upper
96	100		
61	213.2	170.6	255.8
98	65.3	52.2	78.4



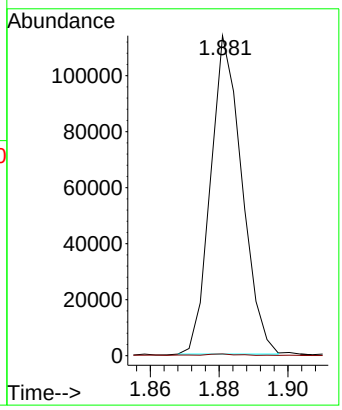


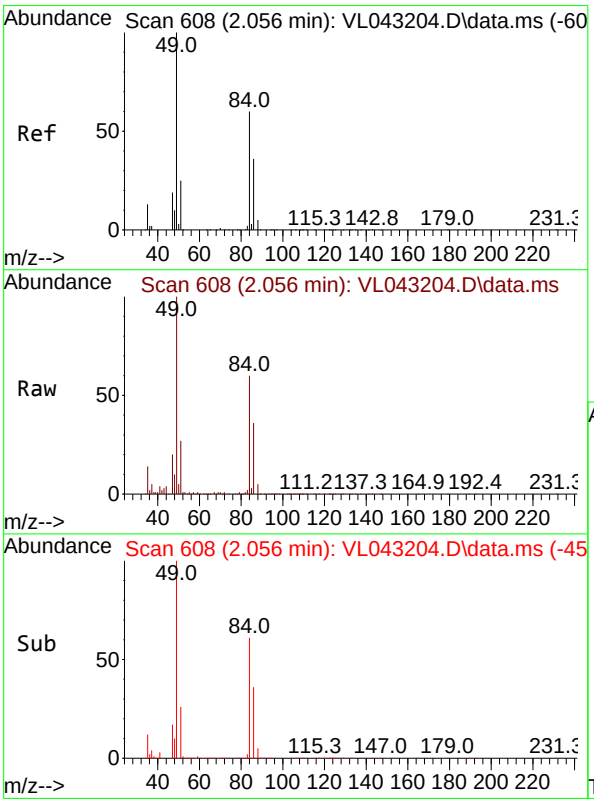
#19
Isopropyl Alcohol
Concen: 8.710 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 71862

Ion	Ratio	Lower	Upper
45	100		
58	39.1	31.3	46.9

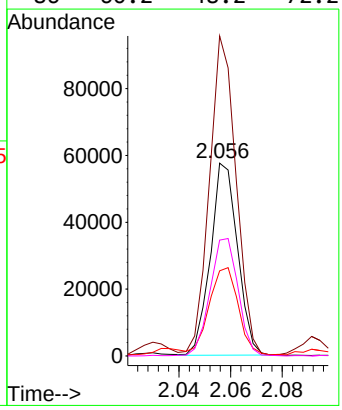


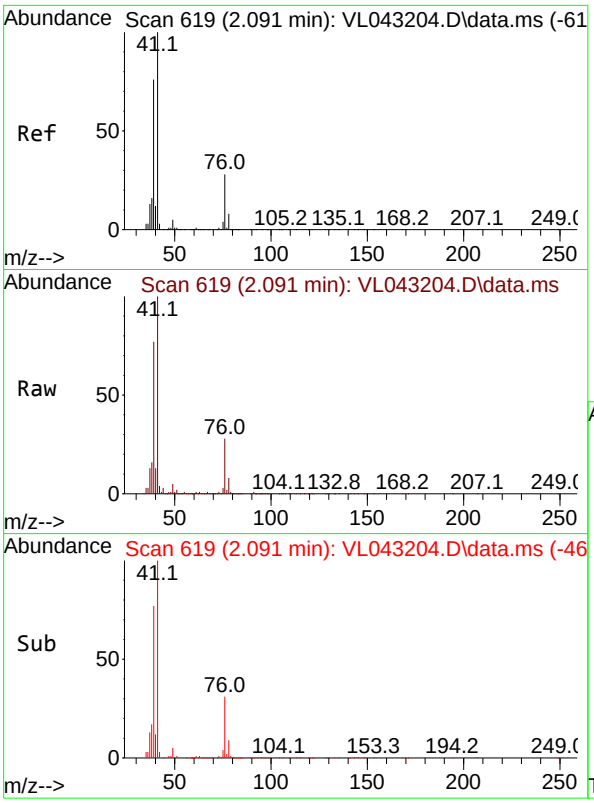


#20
Methylene Chloride
Concen: 9.708 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 84 Resp: 41868

Ion	Ratio	Lower	Upper
84	100		
49	166.1	132.9	199.3
51	43.5	34.8	52.2
86	60.2	48.2	72.2



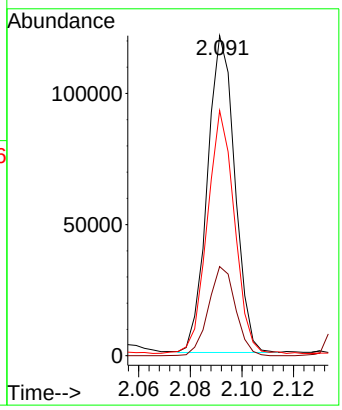


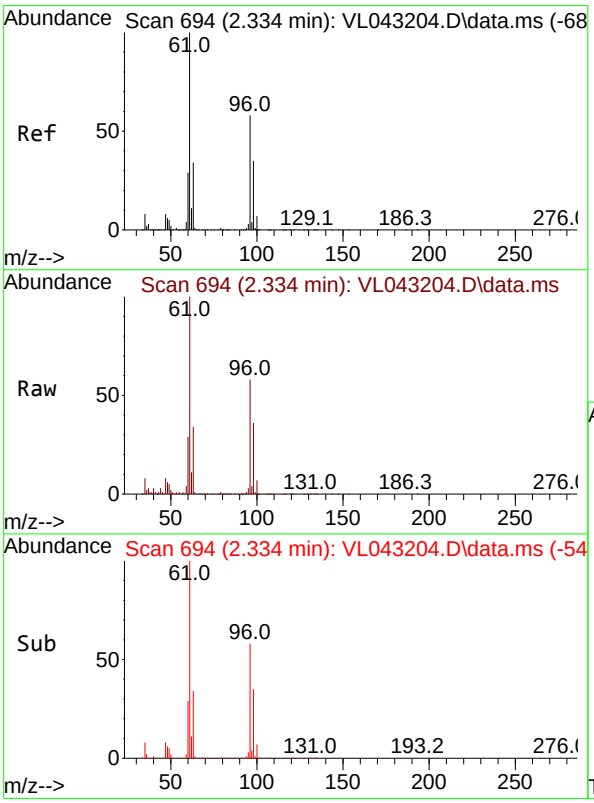
#21
Allyl Chloride
Concen: 9.087 ppbv
RT: 2.091 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 41 Resp: 89266

Ion	Ratio	Lower	Upper
41	100		
76	27.6	22.1	33.1
39	76.2	61.0	91.4

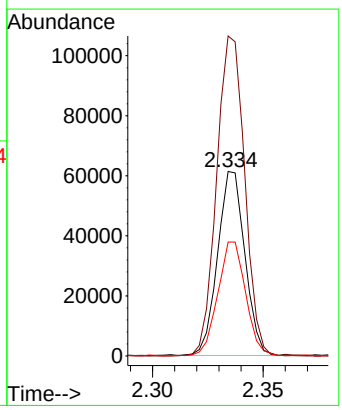


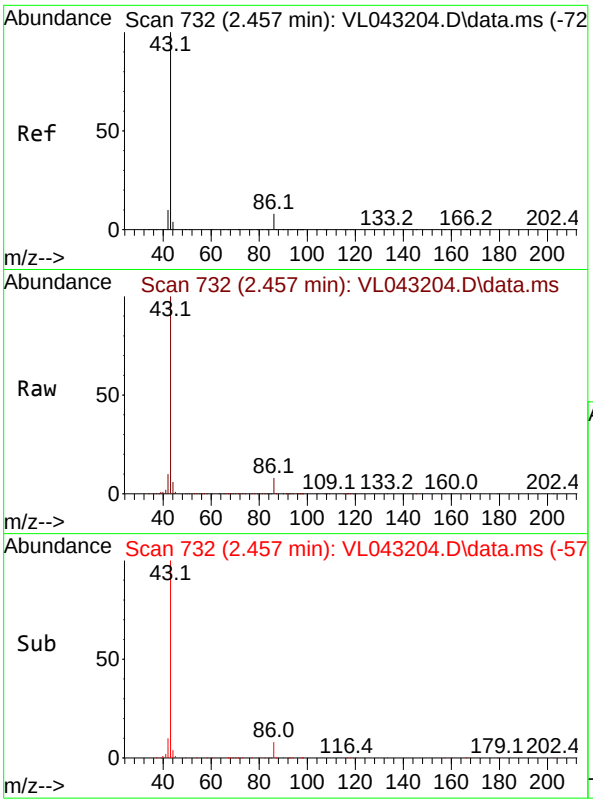


#22
trans-1,2-Dichloroethene
Concen: 8.793 ppbv
RT: 2.334 min Scan# 694
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 96 Resp: 52470

Ion	Ratio	Lower	Upper
96	100		
61	173.8	139.0	208.6
98	61.8	49.4	74.2



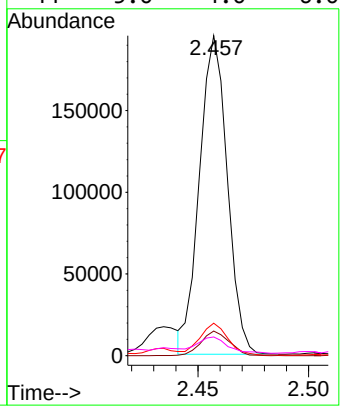


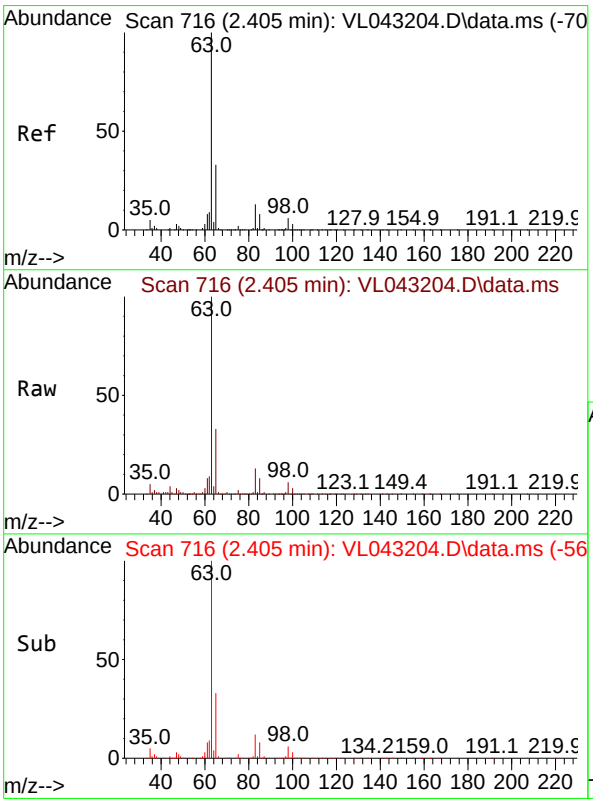
#23
Vinyl Acetate
Concen: 9.670 ppbv
RT: 2.457 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 170459

Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.2	9.2
42	10.0	8.0	12.0
44	5.0	4.0	6.0

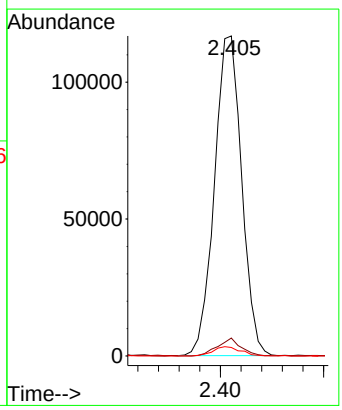


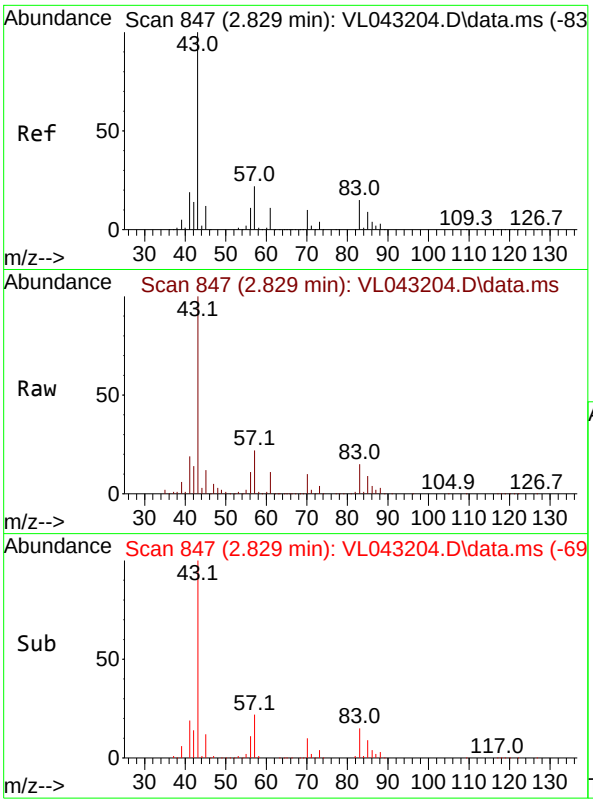


#24
1,1-Dichloroethane
Concen: 9.287 ppbv
RT: 2.405 min Scan# 716
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 63 Resp: 106970

Ion	Ratio	Lower	Upper
63	100		
98	5.6	2.8	8.4
100	2.6	1.3	3.9



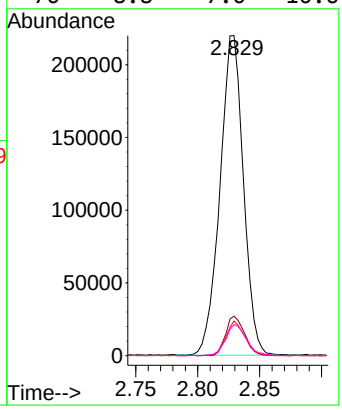


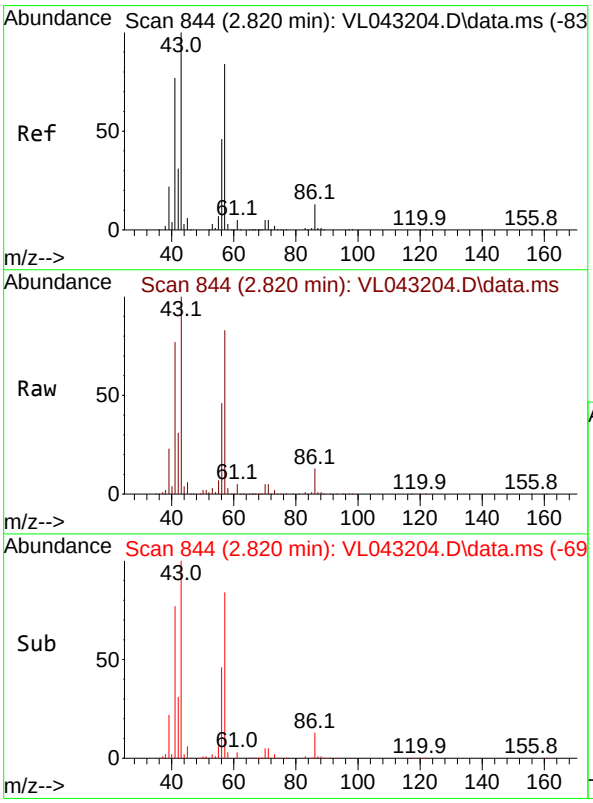
#25
Ethyl Acetate
Concen: 9.190 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 289921

Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	8.7	7.0	10.4
70	8.8	7.0	10.6

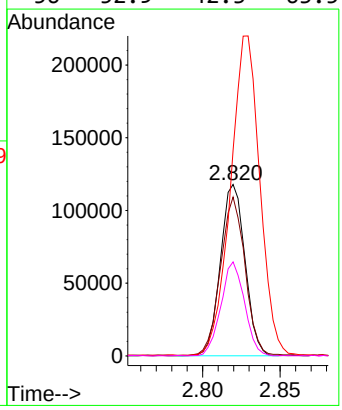


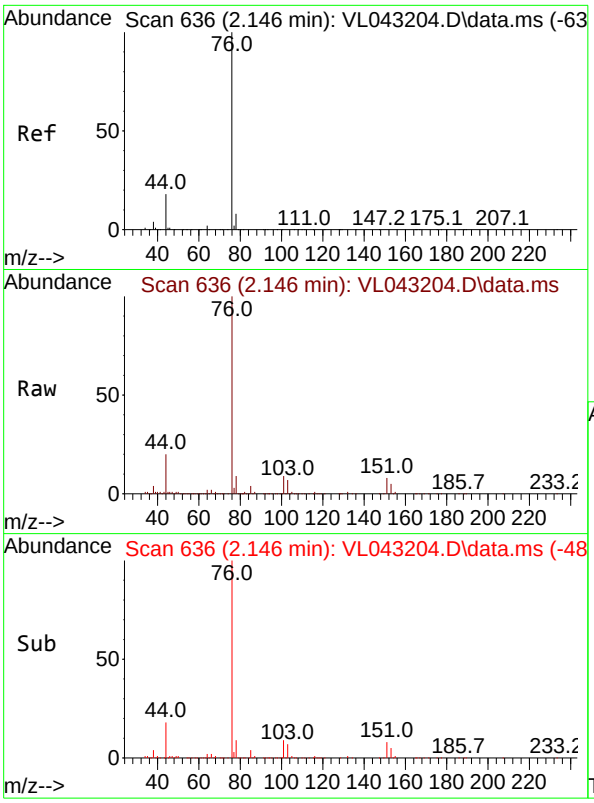


#26
Hexane
Concen: 9.402 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 57 Resp: 129809

Ion	Ratio	Lower	Upper
57	100		
41	93.2	74.6	111.8
43	223.7	179.0	268.4
56	52.9	42.3	63.5



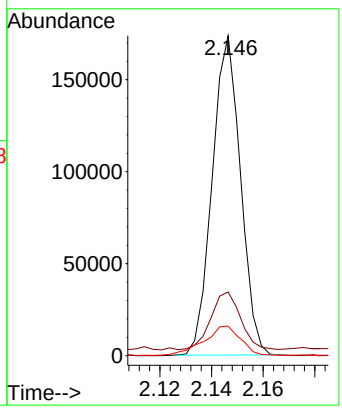


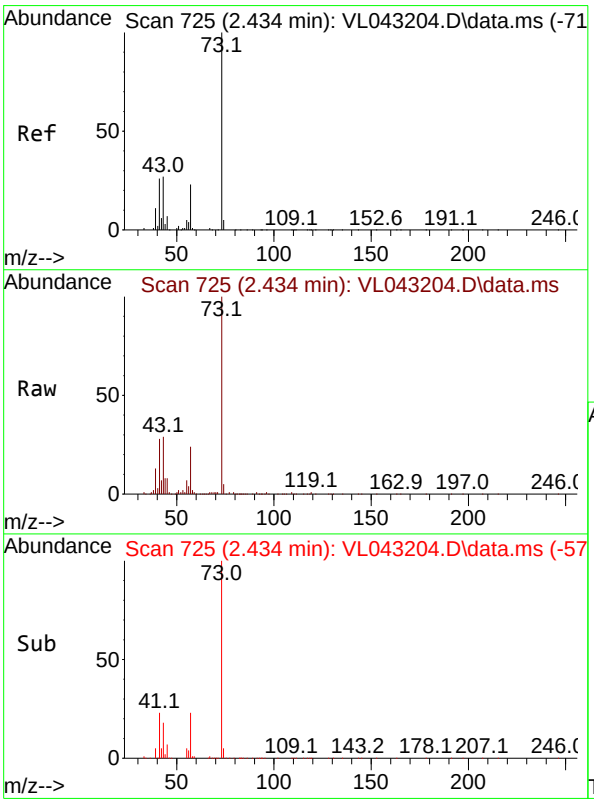
#27
Carbon Disulfide
Concen: 9.371 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 76 Resp: 132086

Ion	Ratio	Lower	Upper
76	100		
44	20.1	16.1	24.1
78	12.0	9.6	14.4

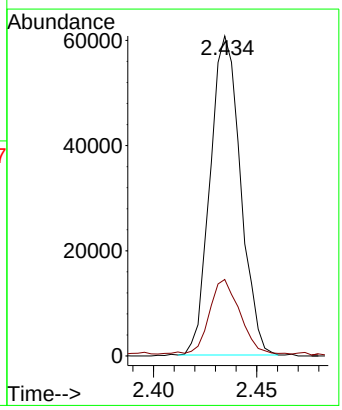


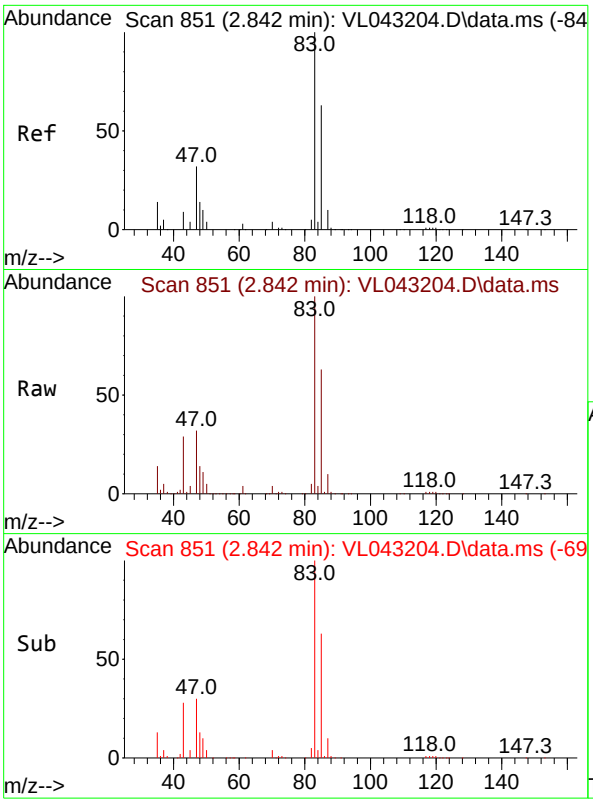


#28
Methyl tert-Butyl Ether
Concen: 9.165 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 73 Resp: 62115

Ion	Ratio	Lower	Upper
73	100		
57	24.8	19.8	29.8



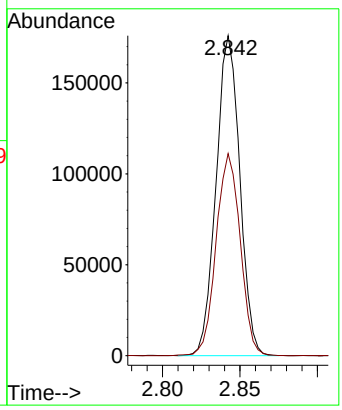


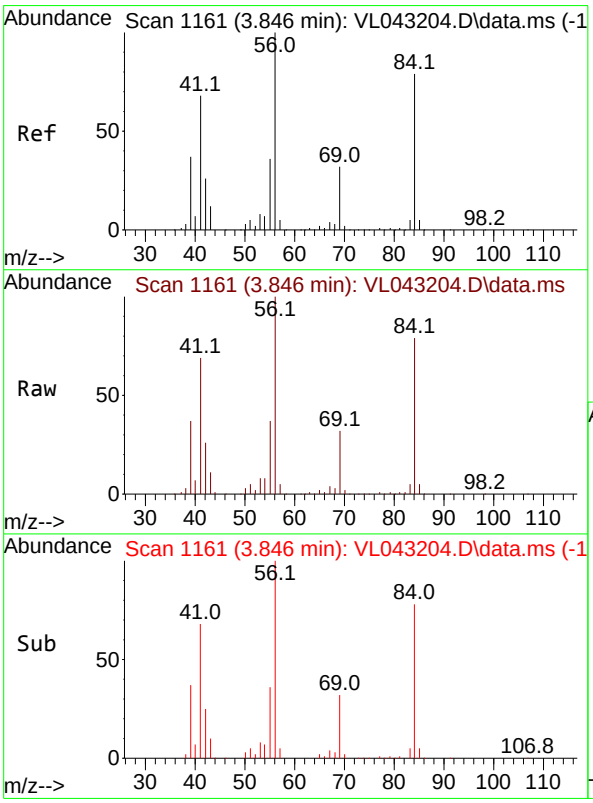
#29
Chloroform
Concen: 9.561 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 187620

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7

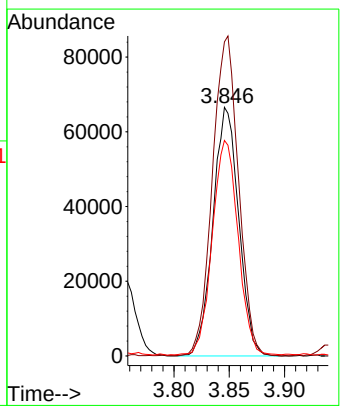


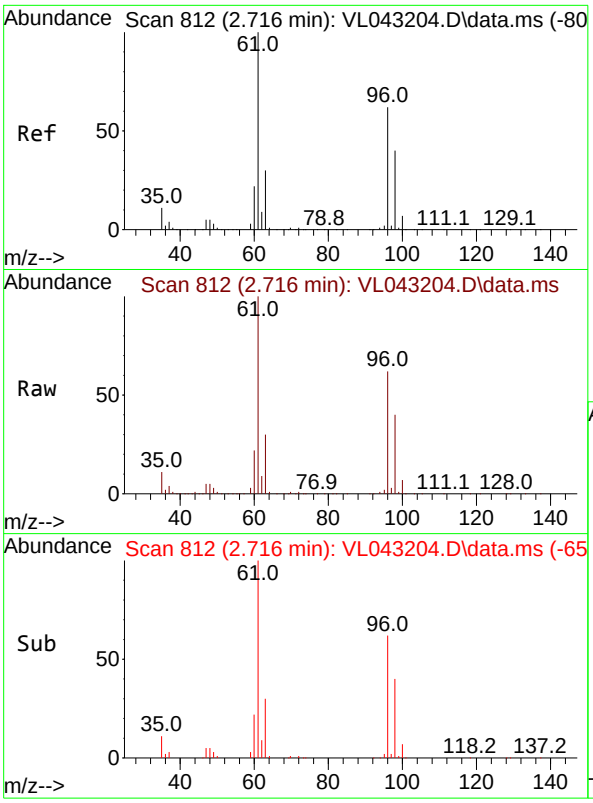


#30
Cyclohexane
Concen: 9.297 ppbv
RT: 3.846 min Scan# 1161
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 84 Resp: 107621

Ion	Ratio	Lower	Upper
84	100		
56	130.9	104.7	157.1
41	86.3	69.0	103.6



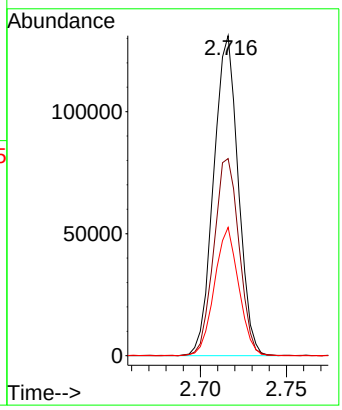


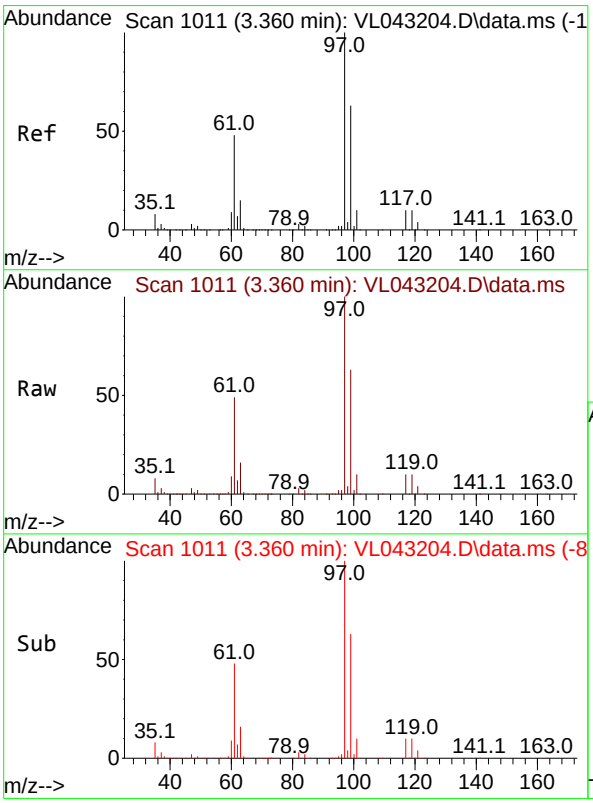
#31
cis-1,2-Dichloroethene
Concen: 9.499 ppbv
RT: 2.716 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 61 Resp: 130357

Ion	Ratio	Lower	Upper
61	100		
96	61.6	49.3	73.9
98	40.1	32.1	48.1

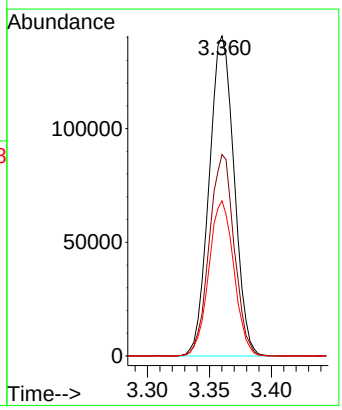


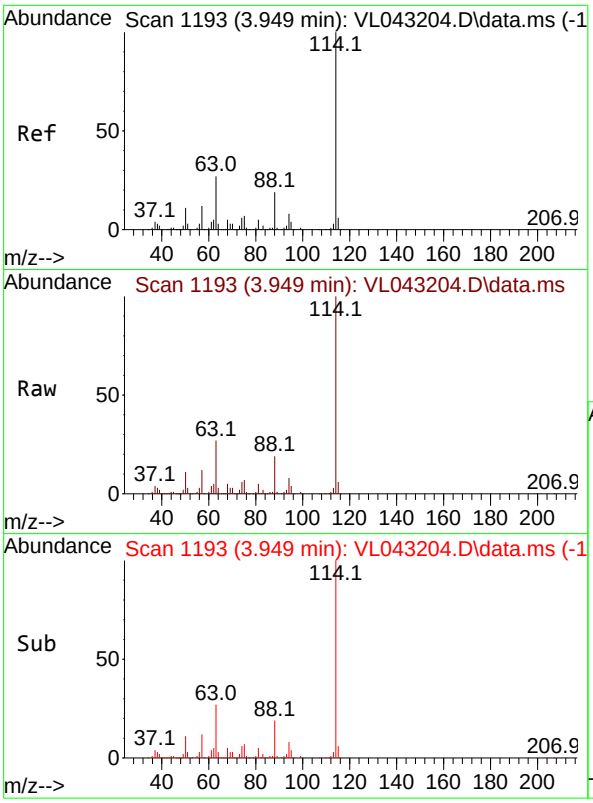


#32
1,1,1-Trichloroethane
Concen: 9.381 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 97 Resp: 198036

Ion	Ratio	Lower	Upper
97	100		
99	62.9	50.3	75.5
61	48.6	38.9	58.3



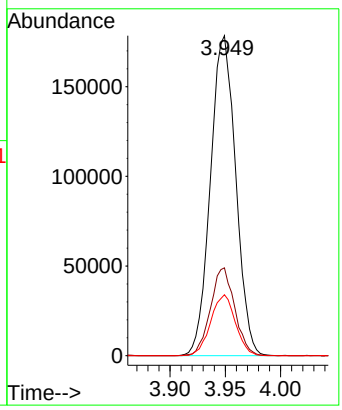


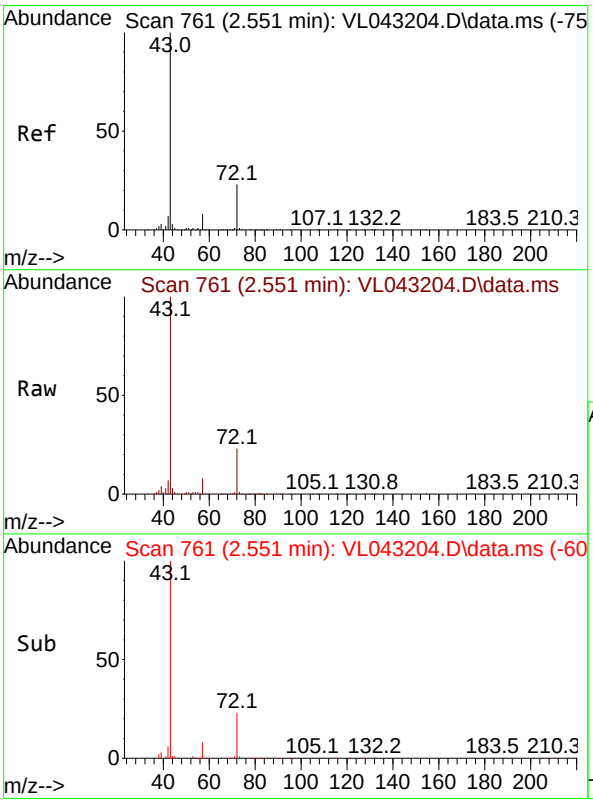
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:114 Resp: 283830

Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.0	31.6
88	18.6	14.9	22.3

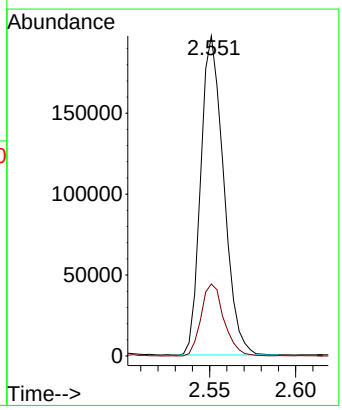


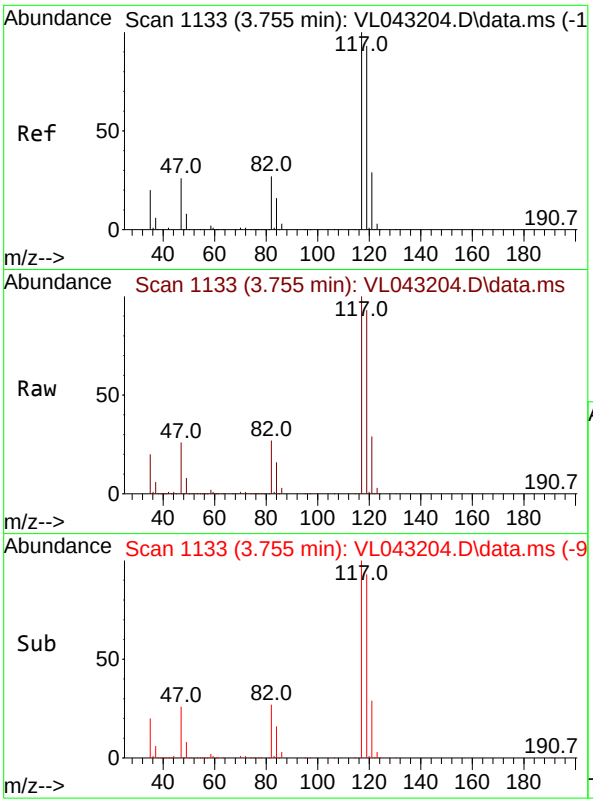


#34
2-Butanone
Concen: 9.121 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 182749

Ion	Ratio	Lower	Upper
43	100		
72	22.6	18.1	27.1



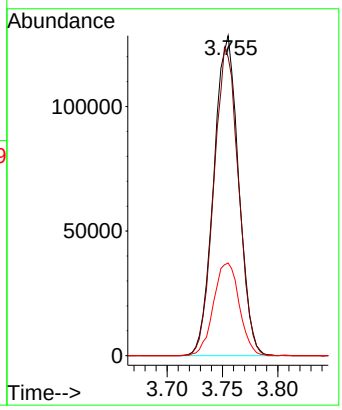


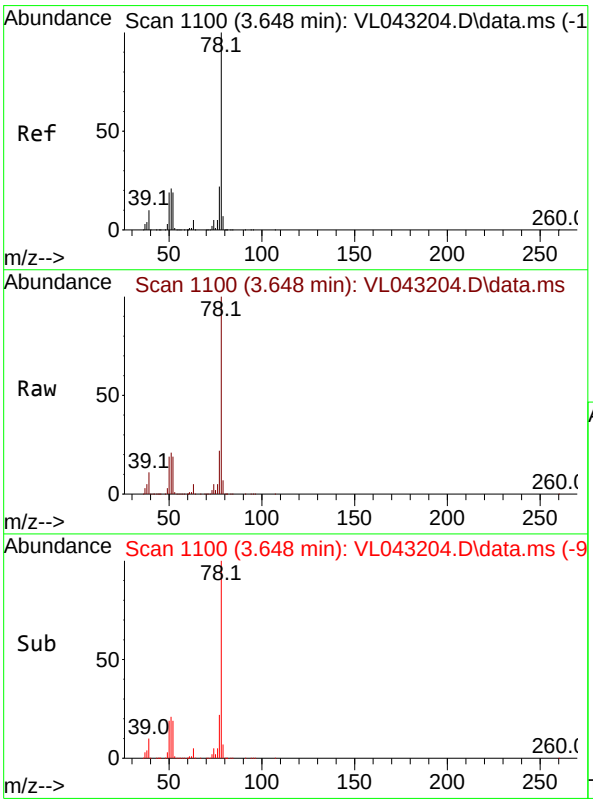
#35
Carbon Tetrachloride
Concen: 9.322 ppbv
RT: 3.755 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 200831

Ion	Ratio	Lower	Upper
117	100		
119	93.3	74.6	112.0
121	29.0	23.2	34.8

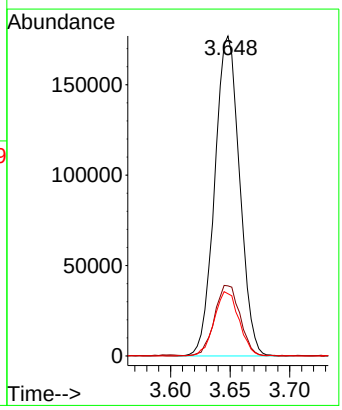


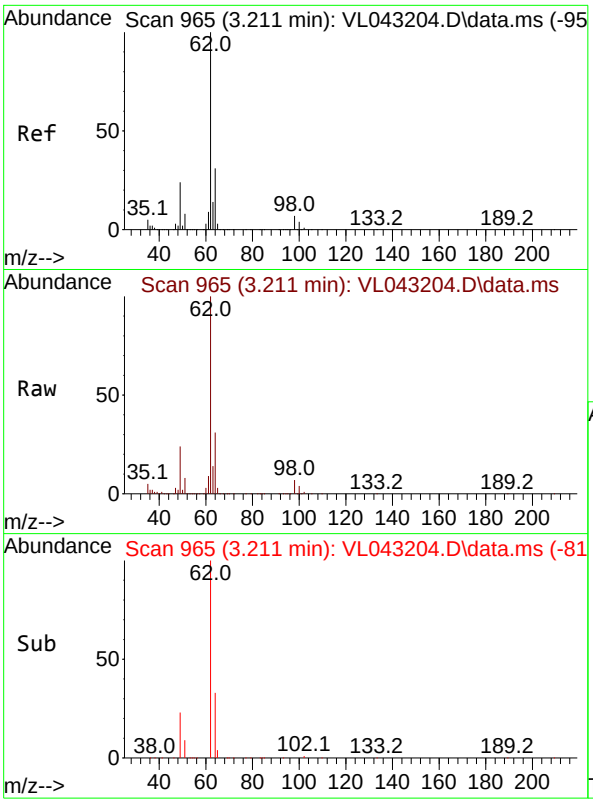


#36
Benzene
Concen: 9.453 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 78 Resp: 256954

Ion	Ratio	Lower	Upper
78	100		
77	21.9	17.5	26.3
50	19.4	15.5	23.3



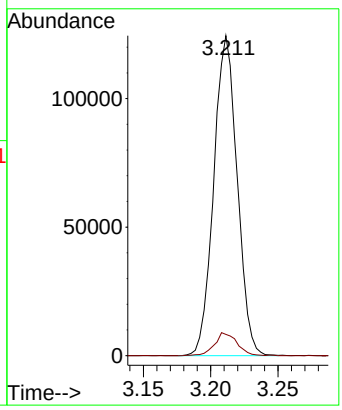


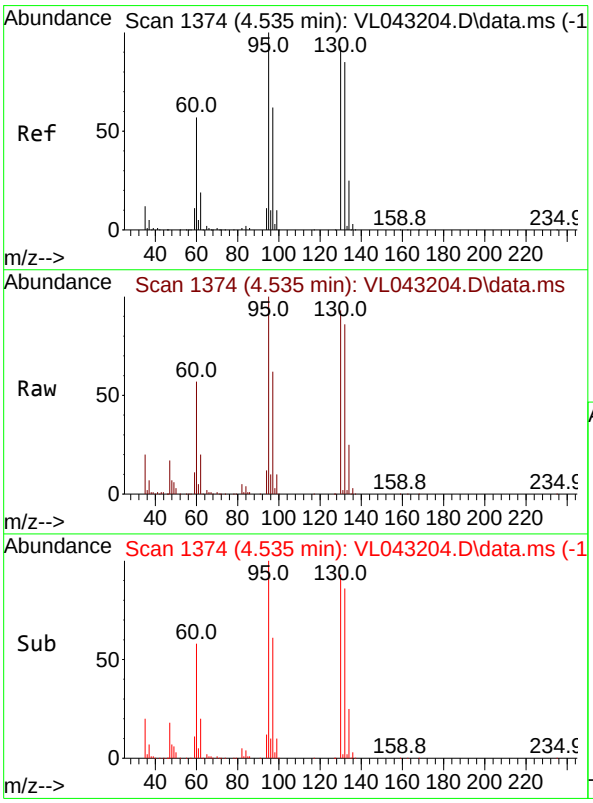
#37
1,2-Dichloroethane
Concen: 9.483 ppbv
RT: 3.211 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 62 Resp: 150769

Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.5	8.3

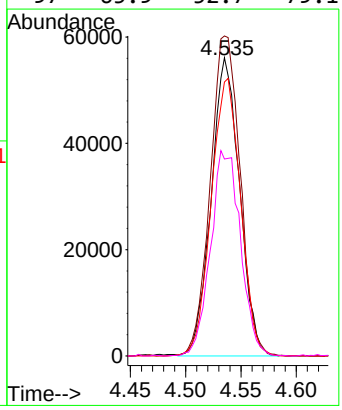


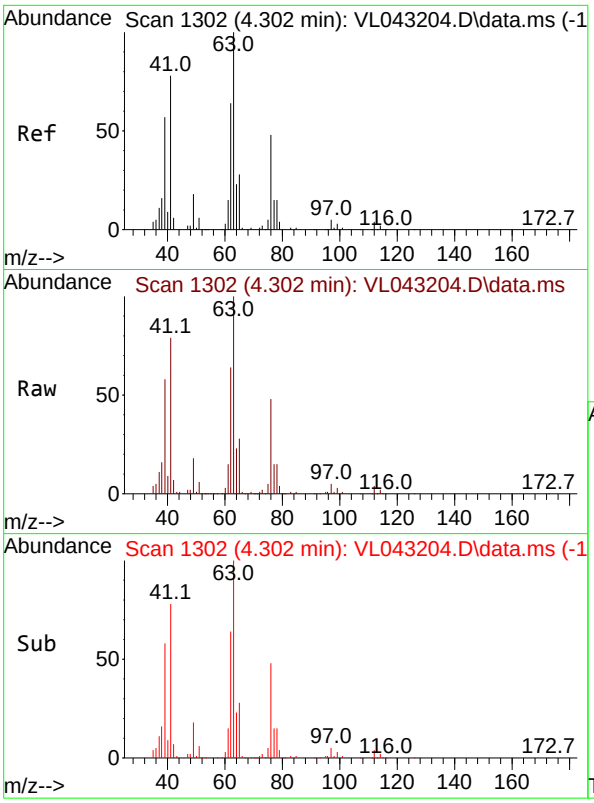


#38
Trichloroethene
Concen: 9.398 ppbv
RT: 4.535 min Scan# 1374
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:130 Resp: 100136

Ion	Ratio	Lower	Upper
130	100		
95	107.1	85.7	128.5
132	91.7	73.4	110.0
97	65.9	52.7	79.1



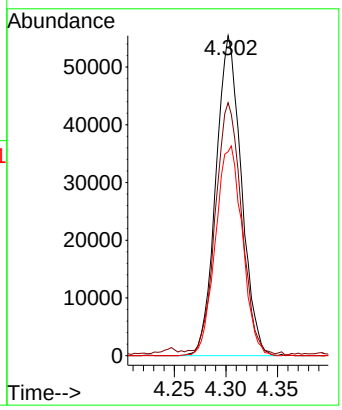


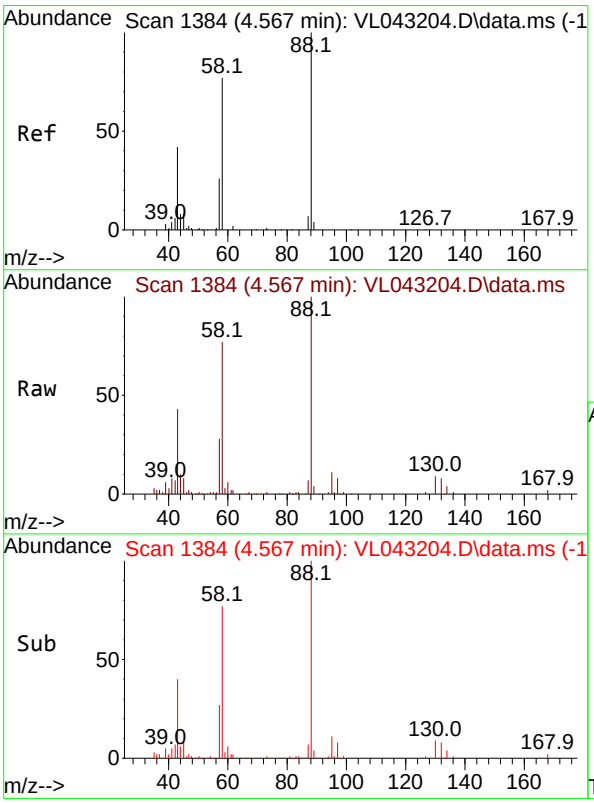
#39
1,2-Dichloropropane
Concen: 9.559 ppbv
RT: 4.302 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 63 Resp: 95097

Ion	Ratio	Lower	Upper
63	100		
41	78.2	62.6	93.8
62	63.8	51.0	76.6

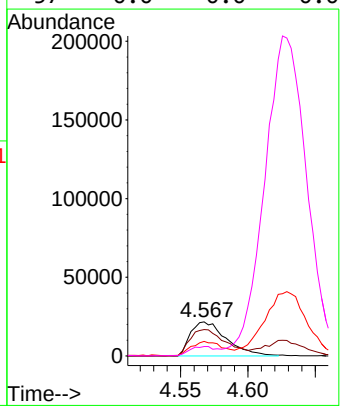


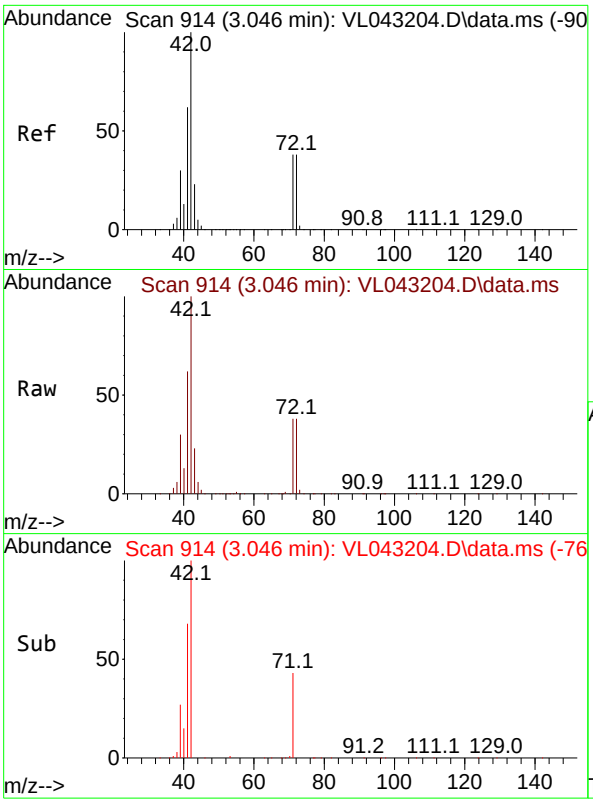


#40
1,4-Dioxane
Concen: 9.043 ppbv
RT: 4.567 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 88 Resp: 40441

Ion	Ratio	Lower	Upper
88	100		
58	78.8	63.0	94.6
43	40.6	32.5	48.7
57	0.0	0.0	0.0



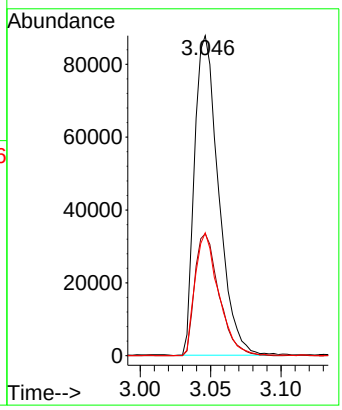


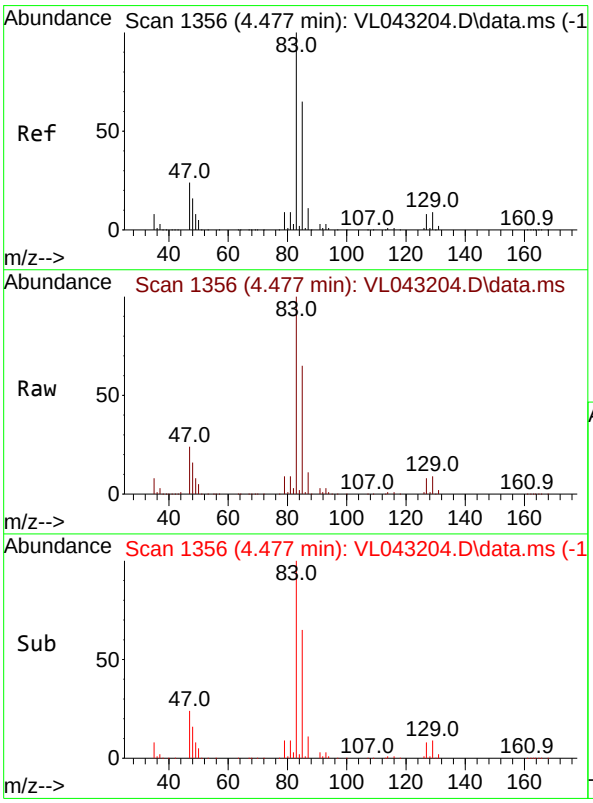
#41
Tetrahydrofuran
Concen: 9.426 ppbv
RT: 3.046 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 42 Resp: 104294

Ion	Ratio	Lower	Upper
42	100		
72	38.3	30.6	46.0
71	38.1	30.5	45.7

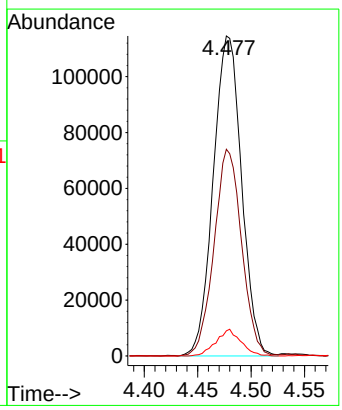


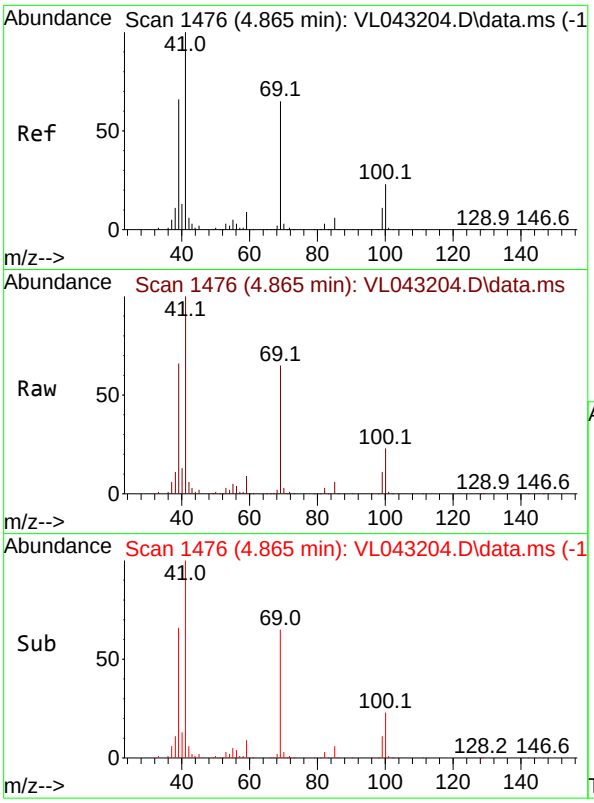


#42
Bromodichloromethane
Concen: 9.643 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 83 Resp: 211504

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.7	77.5
127	7.9	6.3	9.5



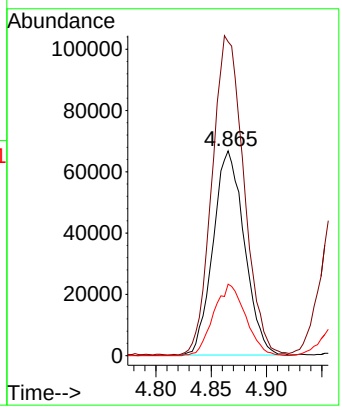


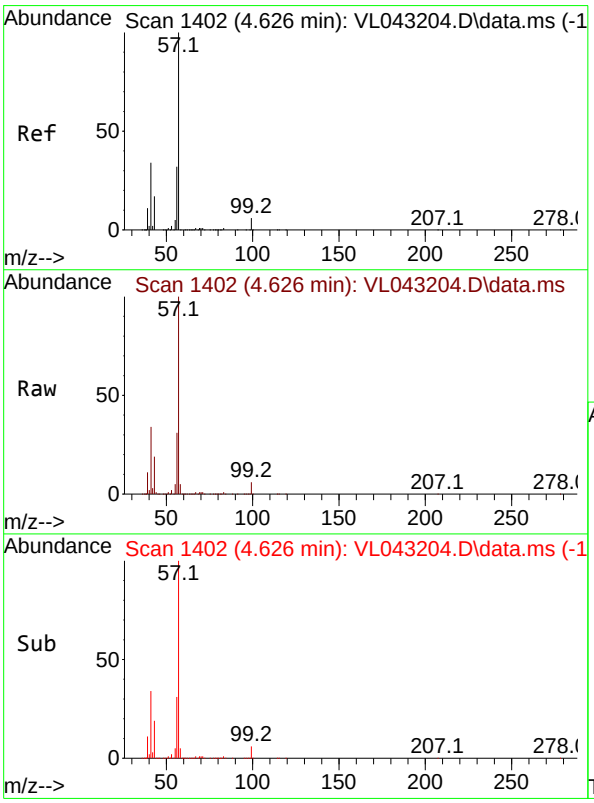
#43
Methyl Methacrylate
Concen: 9.080 ppbv
RT: 4.865 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 131003

Ion	Ratio	Lower	Upper
69	100		
41	158.4	126.7	190.1
100	35.8	28.6	43.0

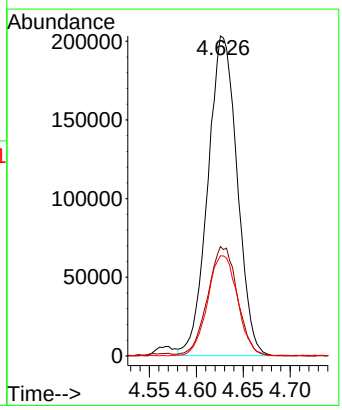


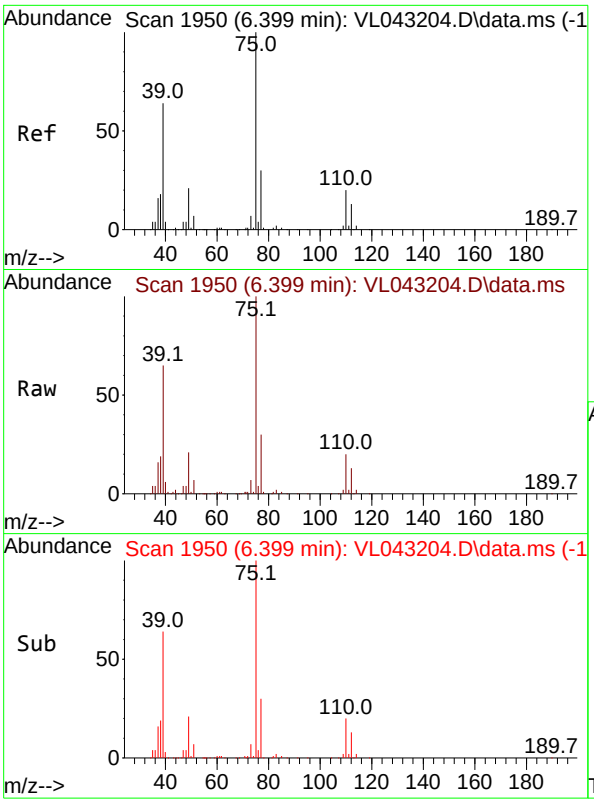


#44
2,2,4-Trimethylpentane
Concen: 9.451 ppbv
RT: 4.626 min Scan# 1402
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 57 Resp: 441234

Ion	Ratio	Lower	Upper
57	100		
41	35.0	28.0	42.0
56	32.0	25.6	38.4



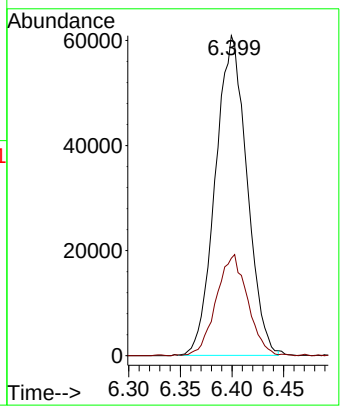


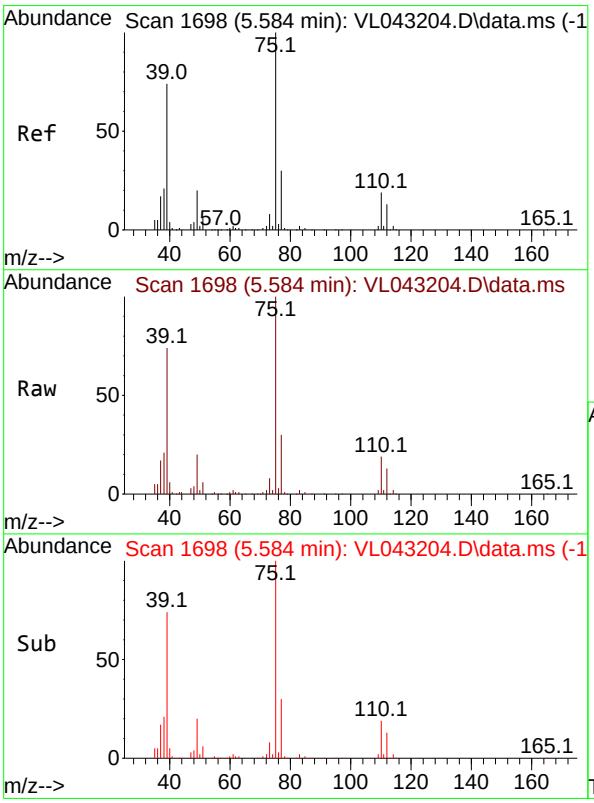
#45
t-1,3-Dichloropropene
Concen: 9.601 ppbv
RT: 6.399 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 129122

Ion	Ratio	Lower	Upper
75	100		
77	30.4	24.3	36.5

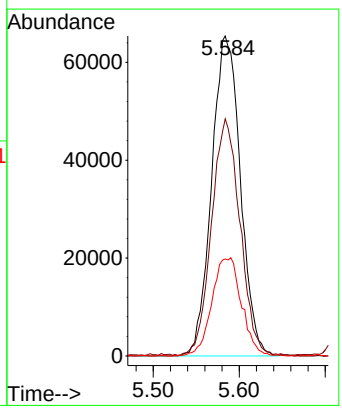


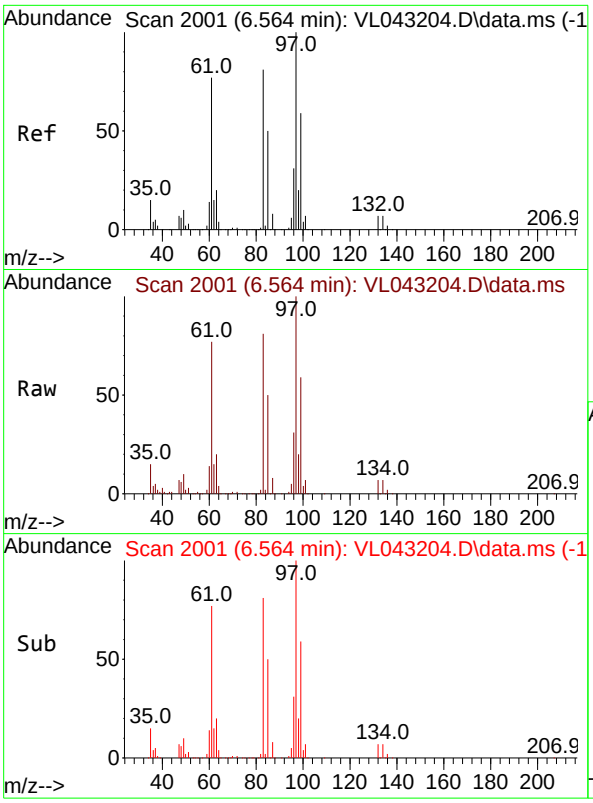


#46
cis-1,3-Dichloropropene
Concen: 9.603 ppbv
RT: 5.584 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 75 Resp: 151655

Ion	Ratio	Lower	Upper
75	100		
39	73.9	59.1	88.7
77	30.2	24.2	36.2



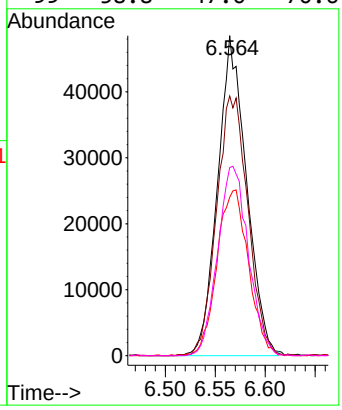


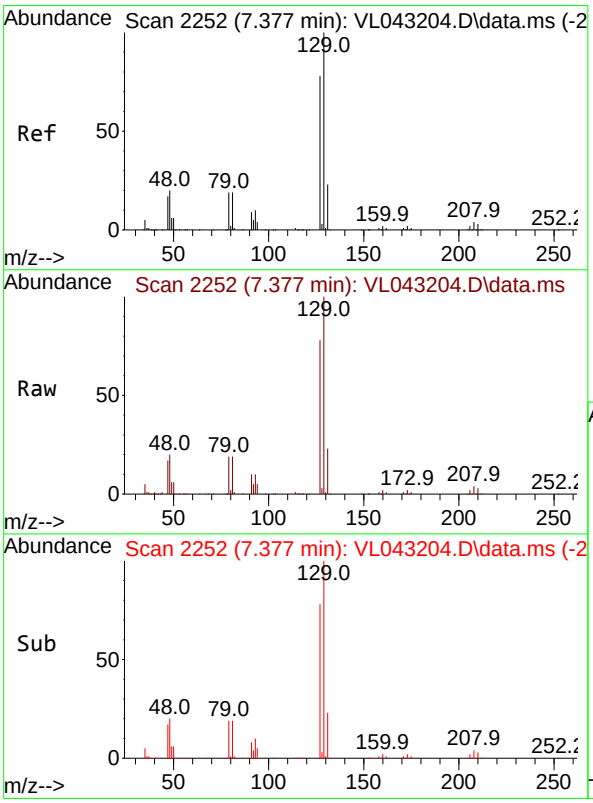
#47
1,1,2-Trichloroethane
Concen: 9.193 ppbv
RT: 6.564 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 97 Resp: 97512

Ion	Ratio	Lower	Upper
97	100		
83	80.8	64.6	97.0
85	49.3	39.4	59.2
99	58.8	47.0	70.6

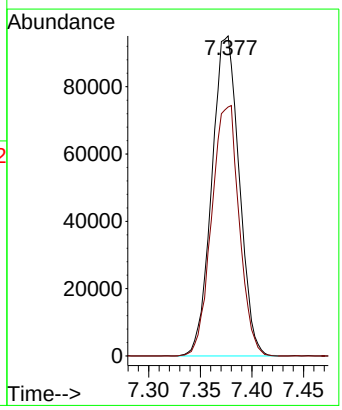


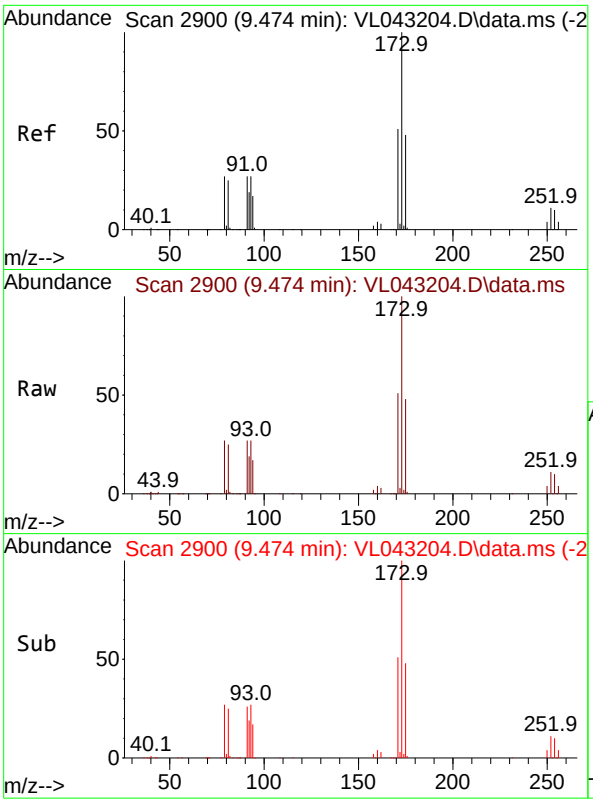


#48
Dibromochloromethane
Concen: 9.670 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:129 Resp: 175529

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9



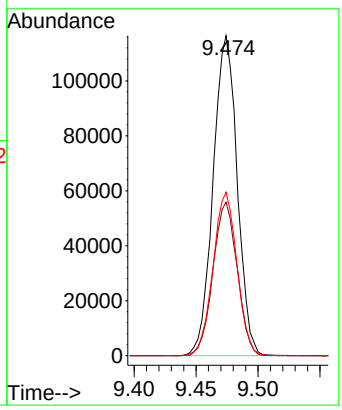


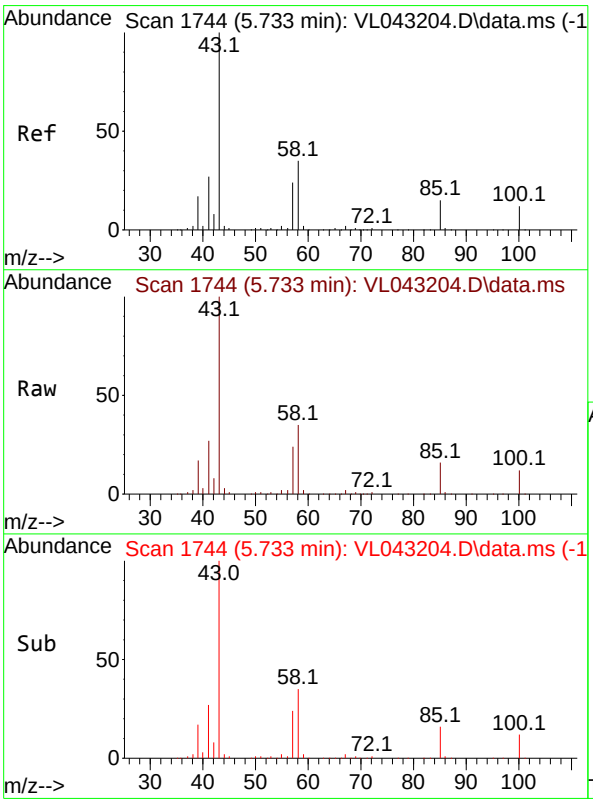
#49
Bromoform
Concen: 9.800 ppbv
RT: 9.474 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:173 Resp: 157563

Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.6	58.0
171	50.8	40.6	61.0

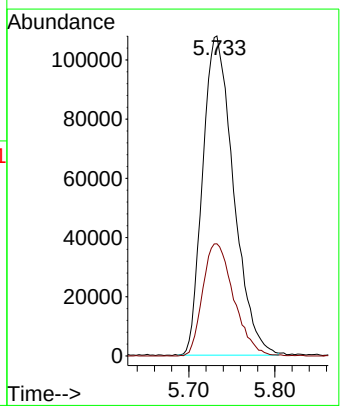


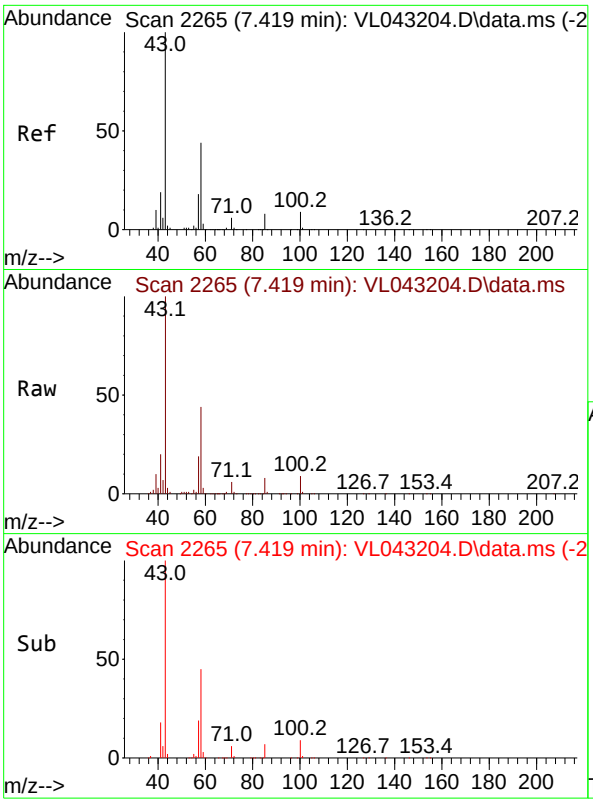


#50
4-Methyl-2-Pentanone
Concen: 9.509 ppbv
RT: 5.733 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 43 Resp: 268369

Ion	Ratio	Lower	Upper
43	100		
58	35.5	28.4	42.6



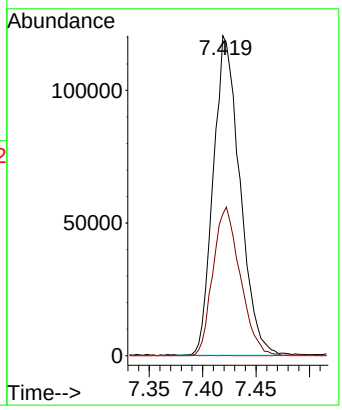


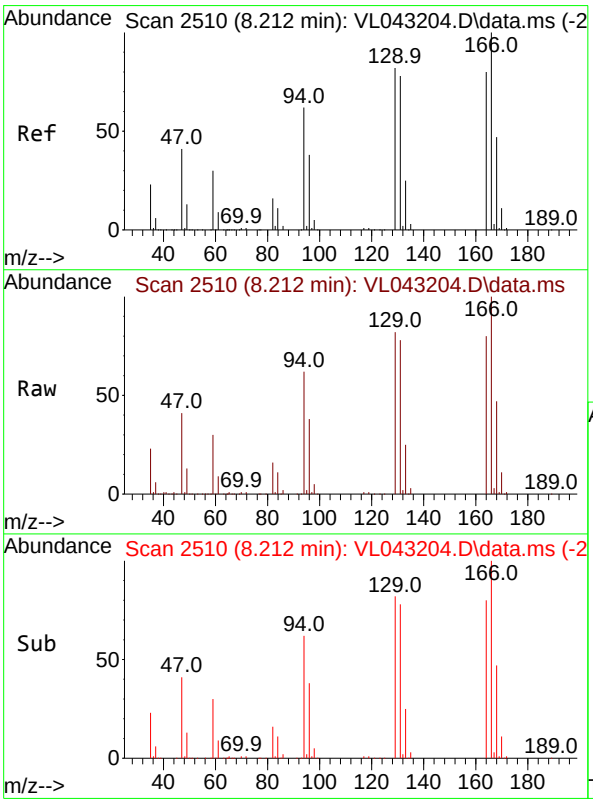
#51
2-Hexanone
Concen: 9.503 ppbv
RT: 7.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 208268

Ion	Ratio	Lower	Upper
43	100		
58	48.0	38.4	57.6
98	0.0	0.0	0.0#

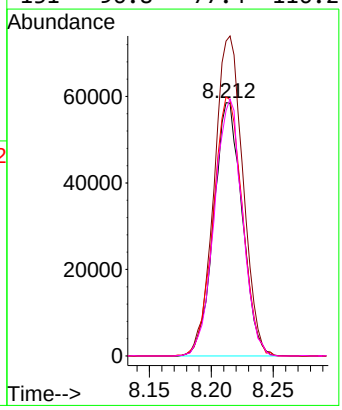


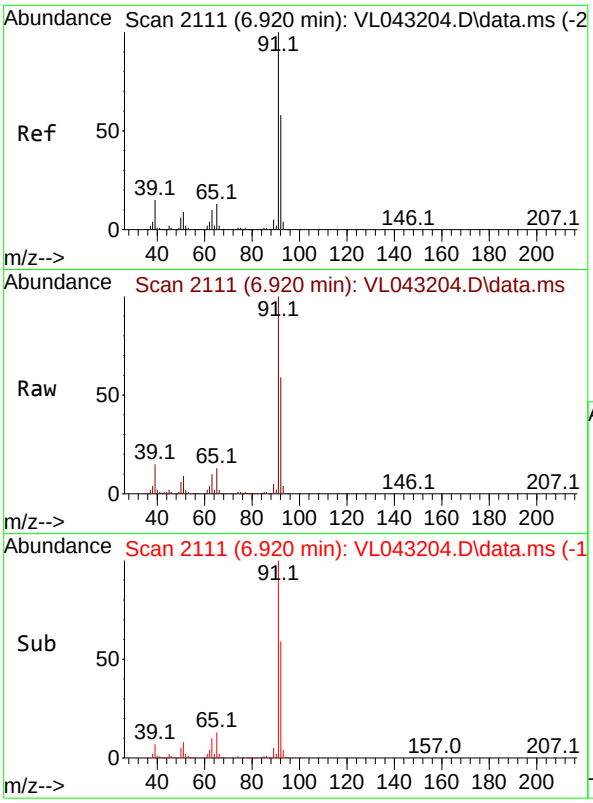


#52
Tetrachloroethene
Concen: 9.249 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:164 Resp: 93518

Ion	Ratio	Lower	Upper
164	100		
166	124.3	99.4	149.2
129	102.3	81.8	122.8
131	96.8	77.4	116.2



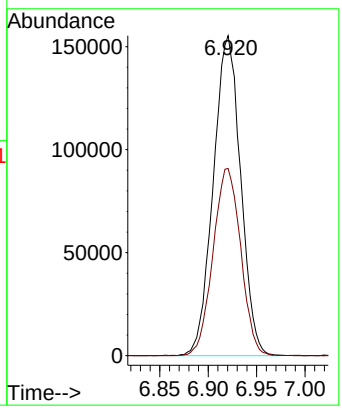


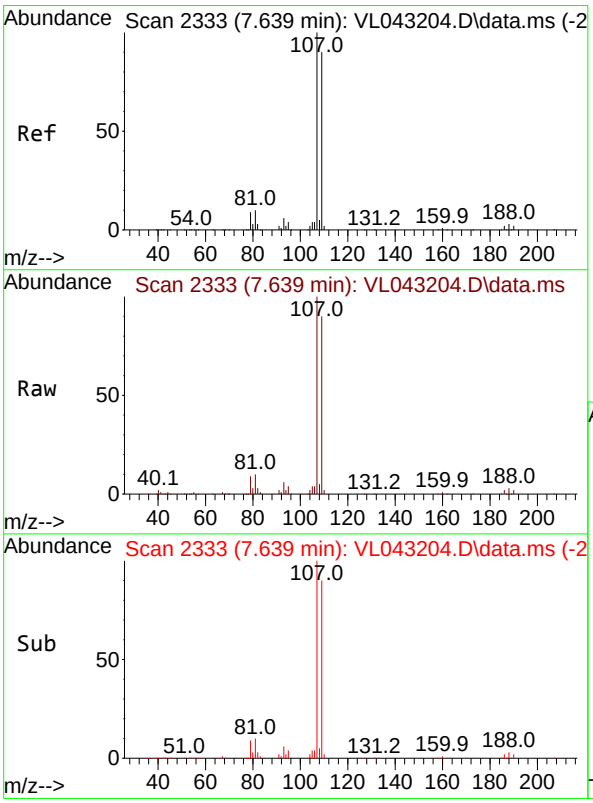
#53
Toluene
Concen: 9.422 ppbv
RT: 6.920 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 305169

Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.4	71.0

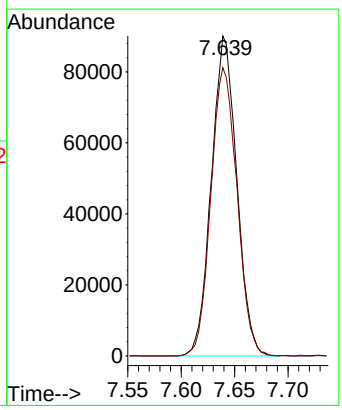


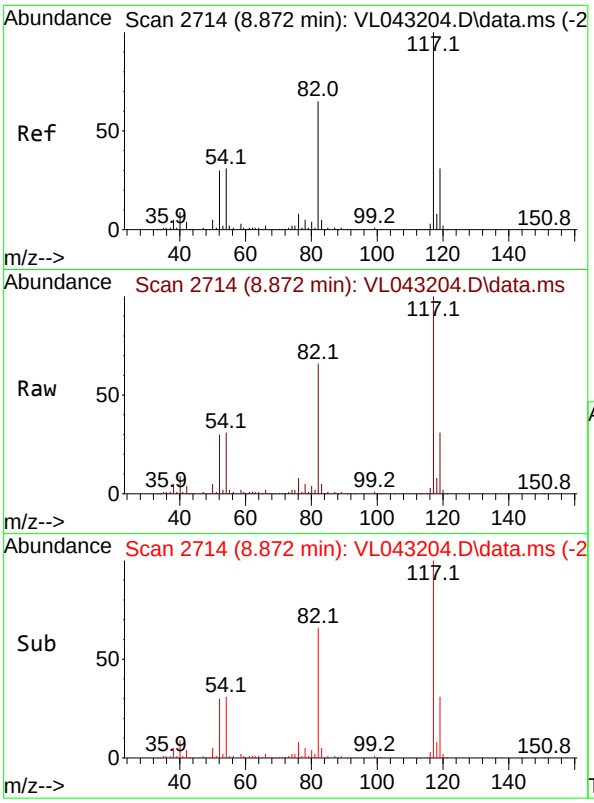


#54
1,2-Dibromoethane
Concen: 9.588 ppbv
RT: 7.639 min Scan# 2333
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:107 Resp: 148973

Ion	Ratio	Lower	Upper
107	100		
109	90.1	72.1	108.1



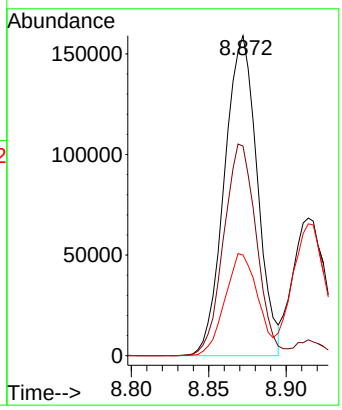


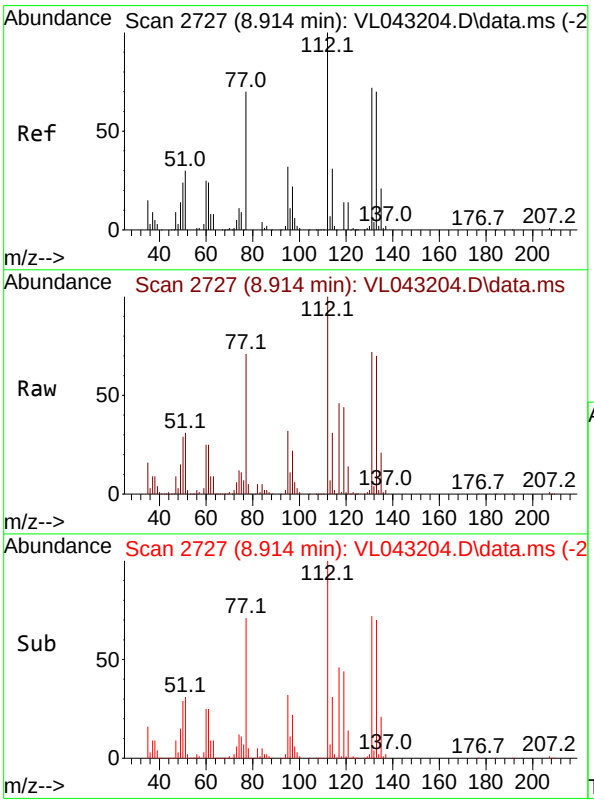
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 234772

Ion	Ratio	Lower	Upper
117	100		
82	70.1	56.1	84.1
119	31.3	25.0	37.6

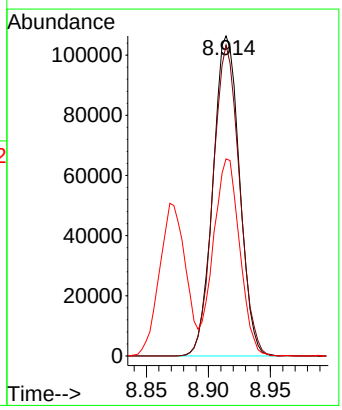


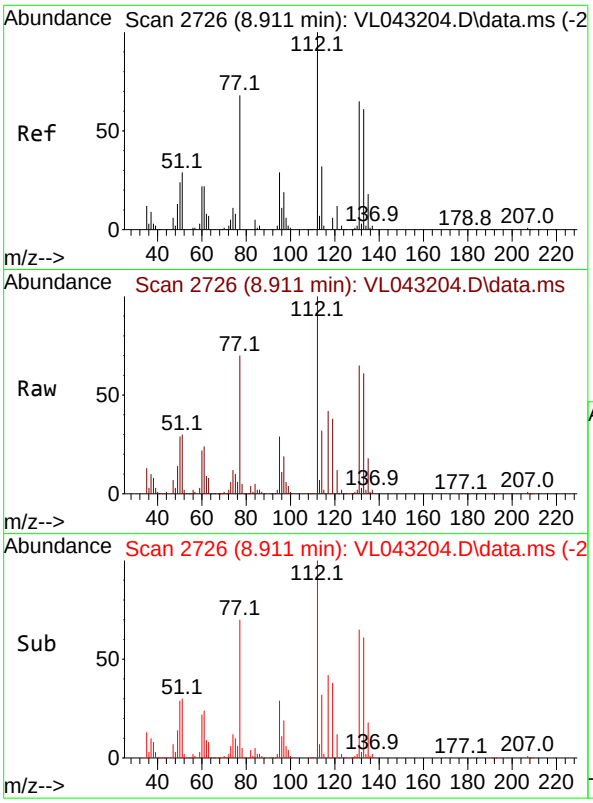


#56
1,1,1,2-Tetrachloroethane
Concen: 9.207 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:131 Resp: 158856

Ion	Ratio	Lower	Upper
131	100		
133	96.8	77.4	116.2
119	61.4	49.1	73.7



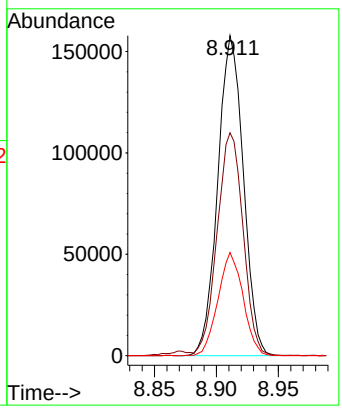


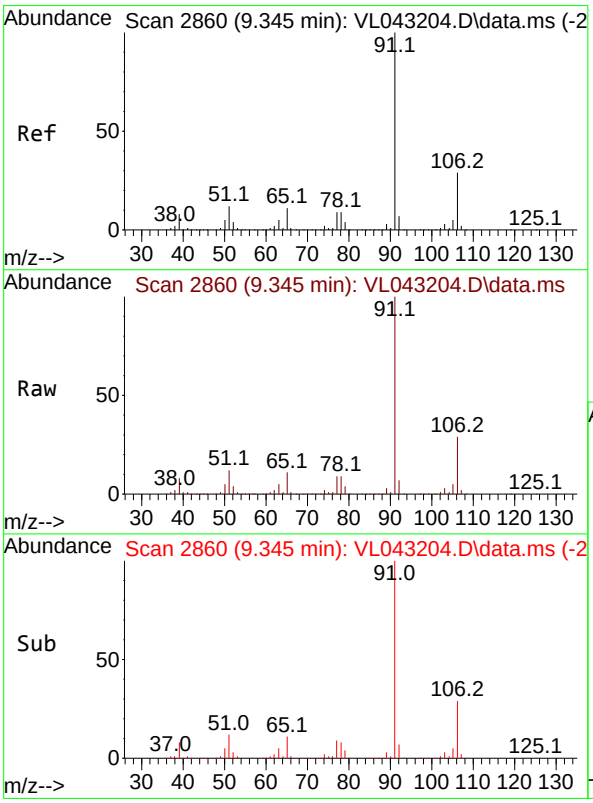
#57
Chlorobenzene
Concen: 9.438 ppbv
RT: 8.911 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:112 Resp: 227490

Ion	Ratio	Lower	Upper
112	100		
77	69.4	55.5	83.3
114	32.3	29.1	35.5

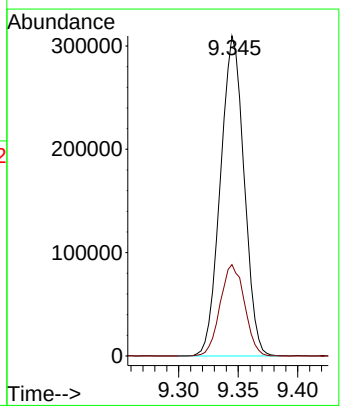


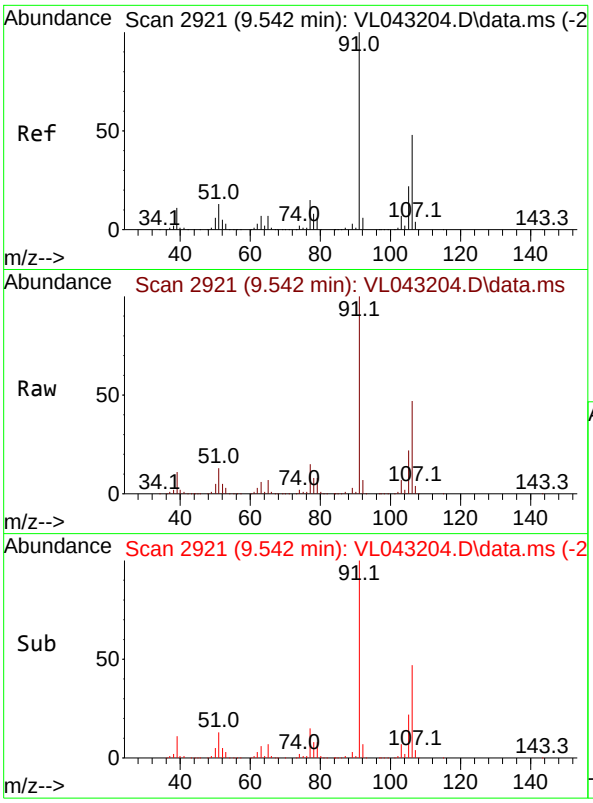


#58
Ethyl Benzene
Concen: 9.461 ppbv
RT: 9.345 min Scan# 2860
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 427530

Ion	Ratio	Lower	Upper
91	100		
106	28.5	22.8	34.2



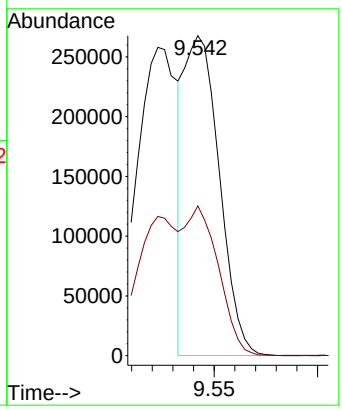


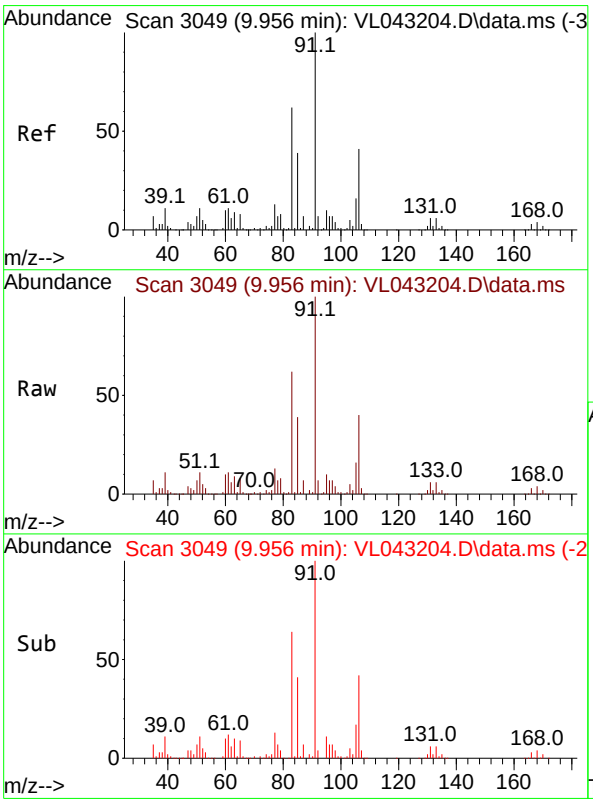
#59
m/p-Xylene
Concen: 8.707 ppbv
RT: 9.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 316603

Ion	Ratio	Lower	Upper
91	100		
106	95.9	36.1	54.1#

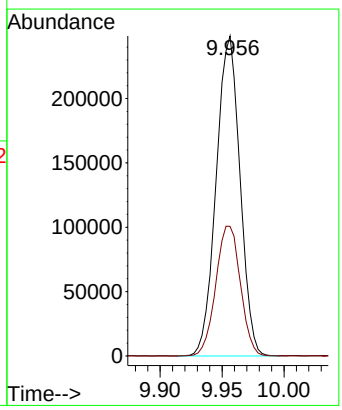


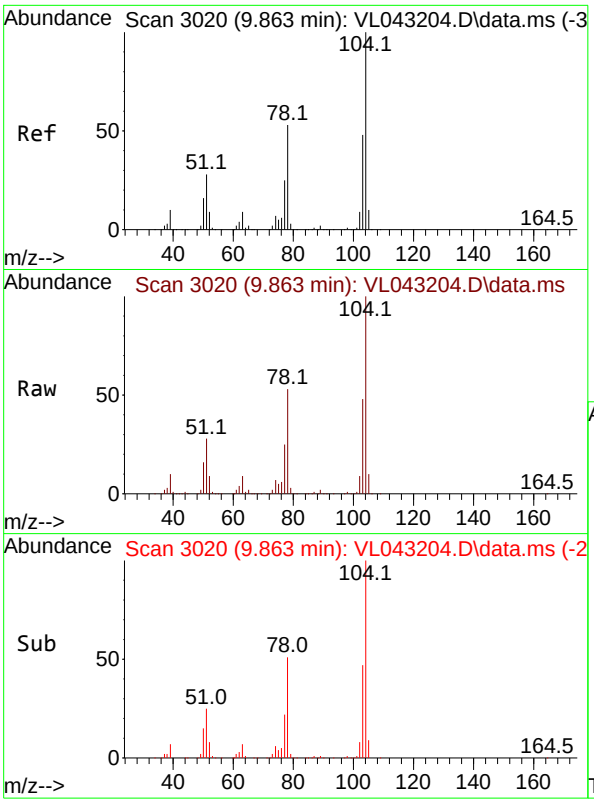


#60
o-Xylene
Concen: 9.202 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 333044

Ion	Ratio	Lower	Upper
91	100		
106	41.9	20.9	62.8



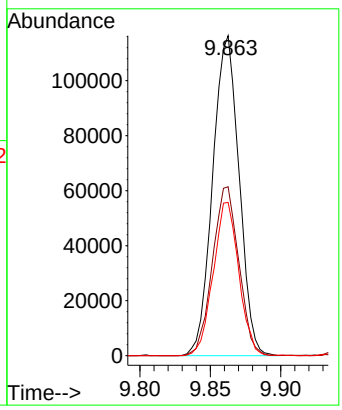


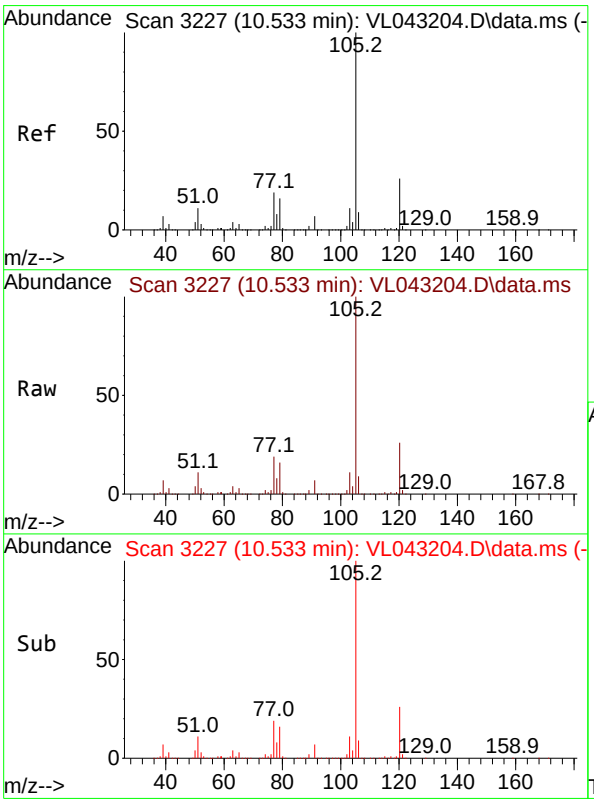
#61
Styrene
Concen: 9.607 ppbv
RT: 9.863 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 152172

Ion	Ratio	Lower	Upper
104	100		
78	52.6	42.1	63.1
103	46.5	37.2	55.8

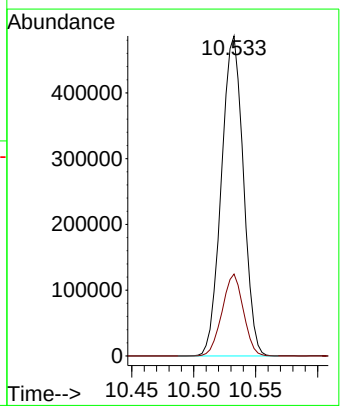


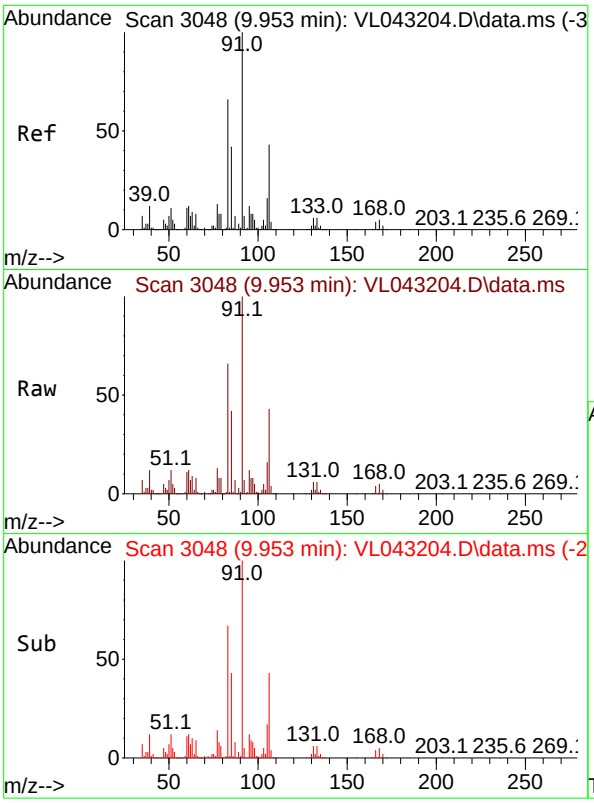


#62
Isopropylbenzene
Concen: 9.269 ppbv
RT: 10.533 min Scan# 3227
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 600155

Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.8	29.8



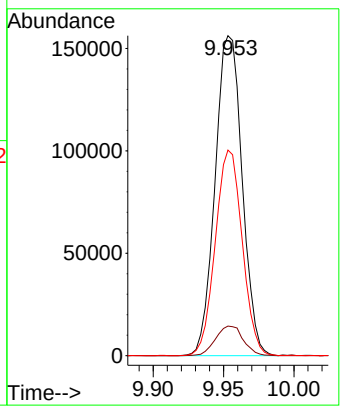


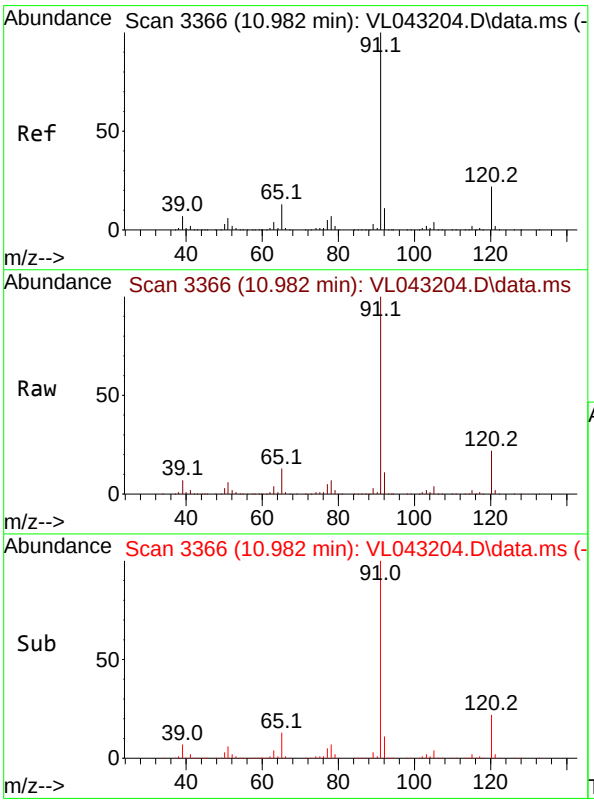
#63
1,1,2,2-Tetrachloroethane
Concen: 9.109 ppbv
RT: 9.953 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 209272

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	63.9	31.9	95.9

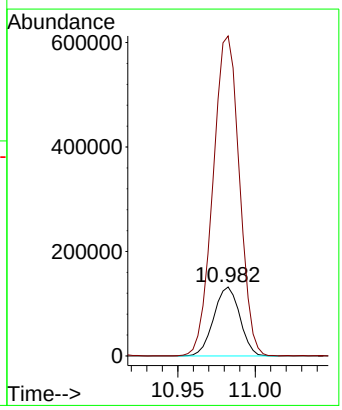


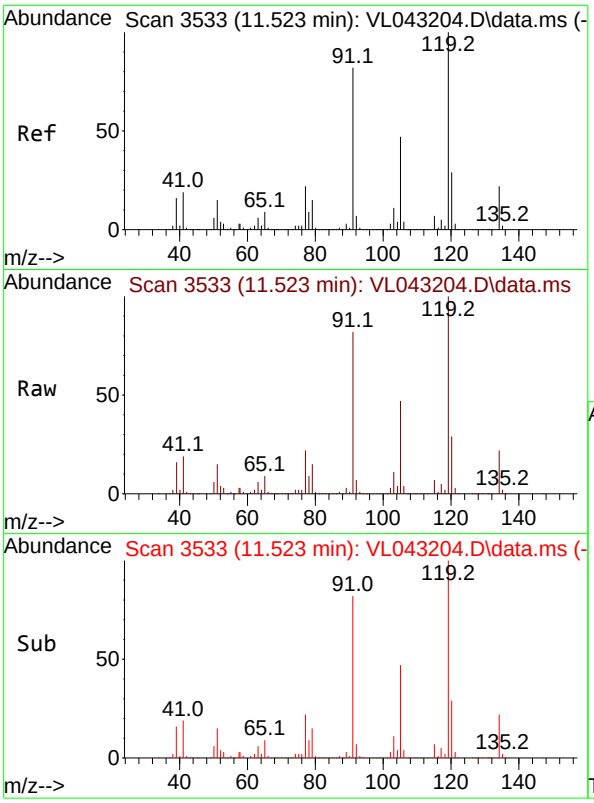


#64
n-propylbenzene
Concen: 9.271 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:120 Resp: 154239

Ion	Ratio	Lower	Upper
120	100		
91	471.4	377.1	565.7



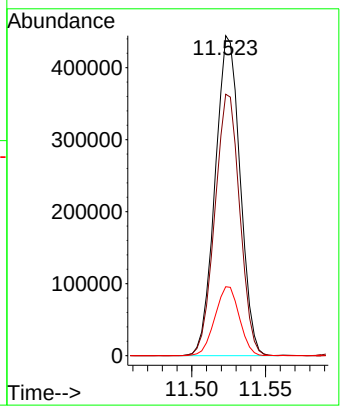


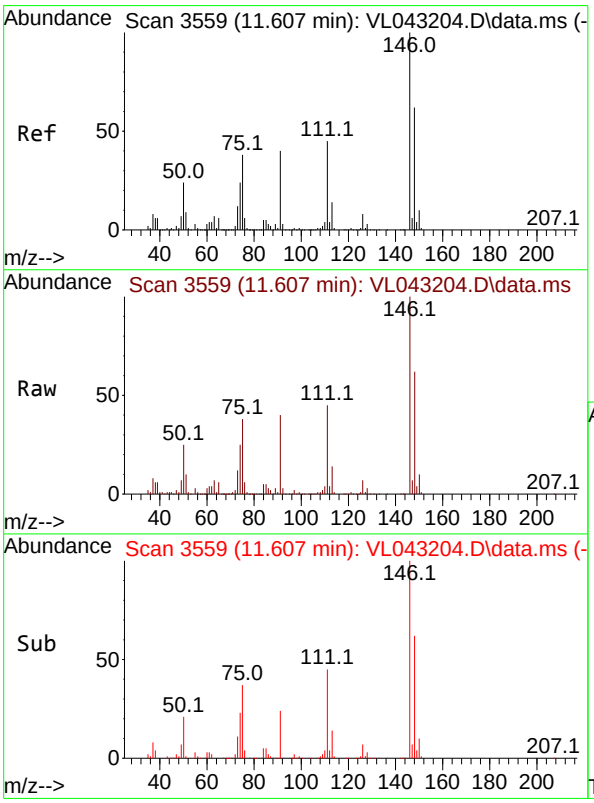
#65
tert-Butylbenzene
Concen: 9.029 ppbv
RT: 11.523 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 522106

Ion	Ratio	Lower	Upper
119	100		
91	81.6	65.3	97.9
134	21.2	17.0	25.4

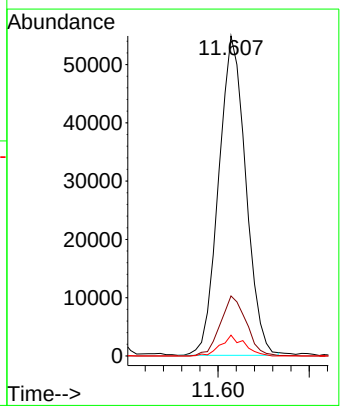


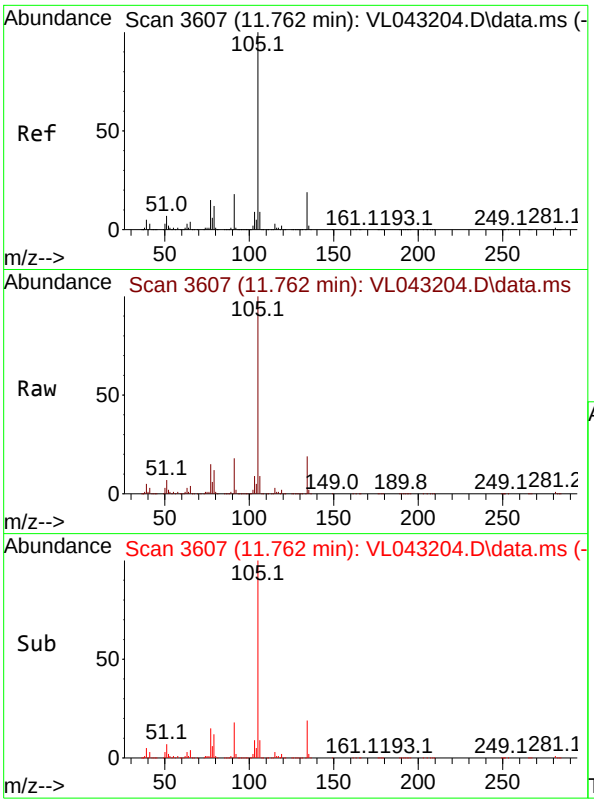


#66
Benzyl Chloride
Concen: 9.649 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 56620

Ion	Ratio	Lower	Upper
91	100		
126	18.0	14.4	21.6
128	5.7	4.6	6.8



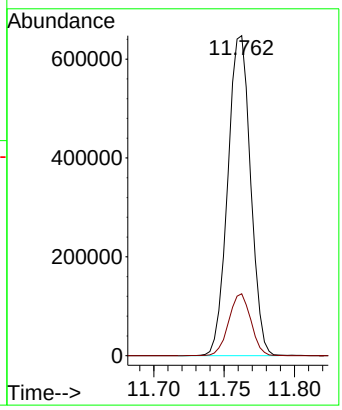


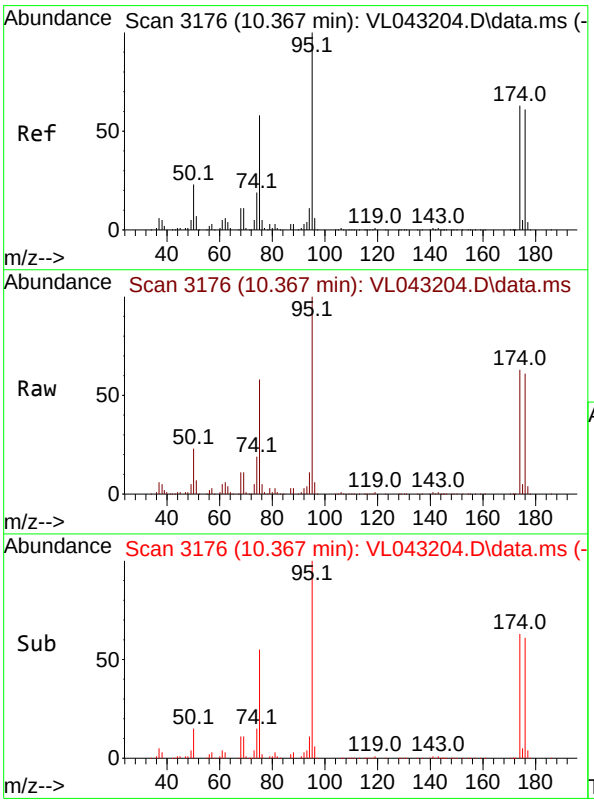
#67
sec-Butylbenzene
Concen: 9.039 ppbv
RT: 11.762 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 729573

Ion	Ratio	Lower	Upper
105	100		
134	18.8	15.0	22.6

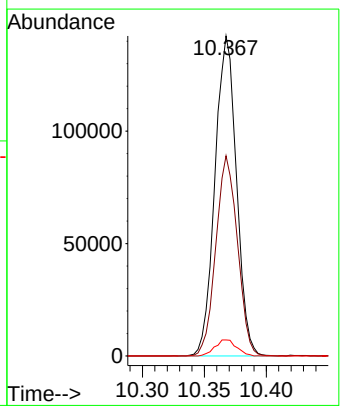


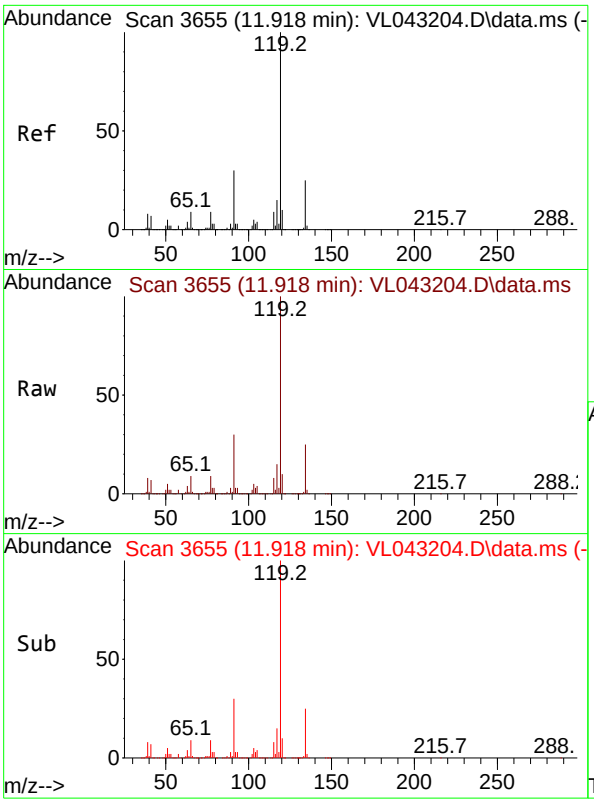


#68
1-Bromo-4-Fluorobenzene
Concen: 10.025 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 95 Resp: 172524

Ion	Ratio	Lower	Upper
95	100		
174	62.7	50.2	75.2
175	5.1	4.1	6.1



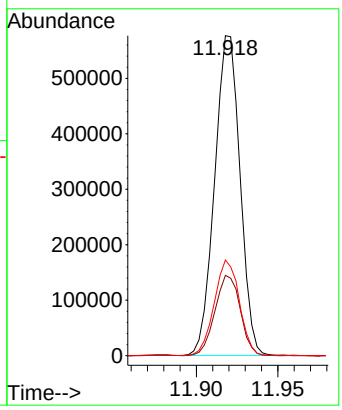


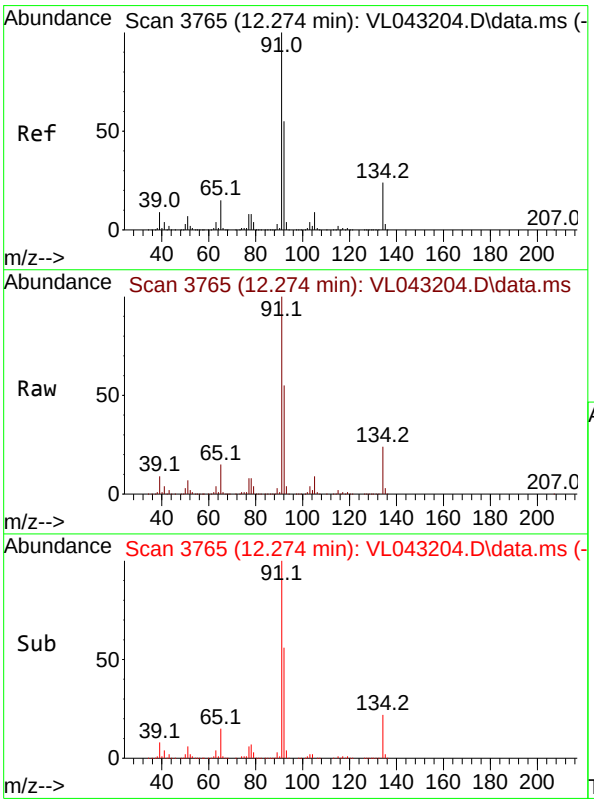
#69
p-Isopropyltoluene
Concen: 9.135 ppbv
RT: 11.918 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:119 Resp: 624586

Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	29.8	23.8	35.8

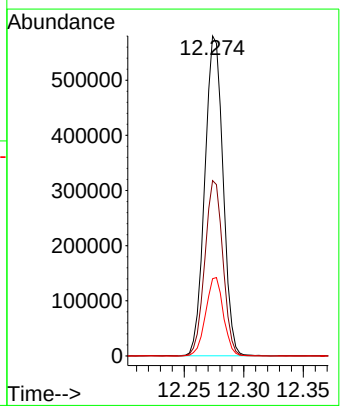


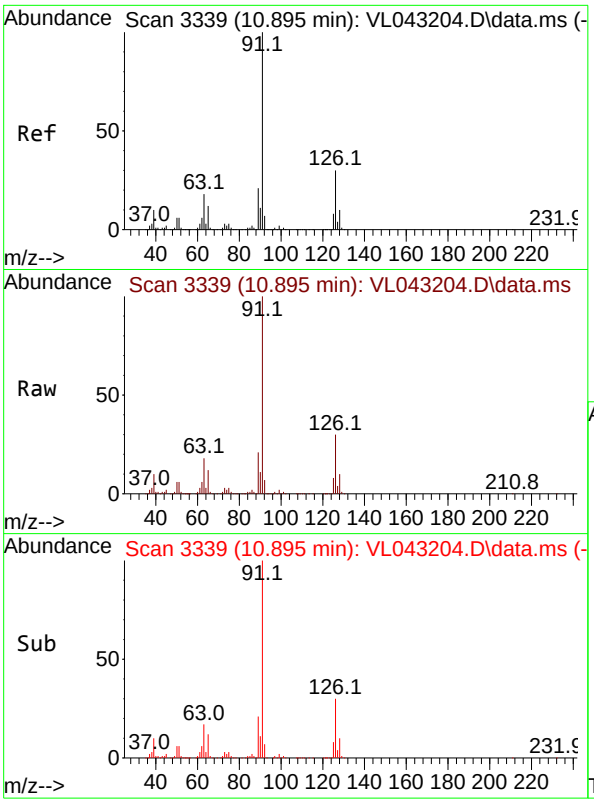


#70
n-Butylbenzene
Concen: 9.341 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion: 91 Resp: 619610

Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.5	65.3
134	23.8	19.0	28.6



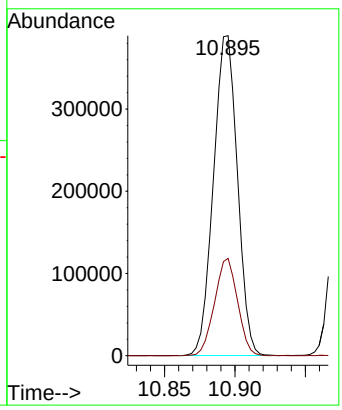


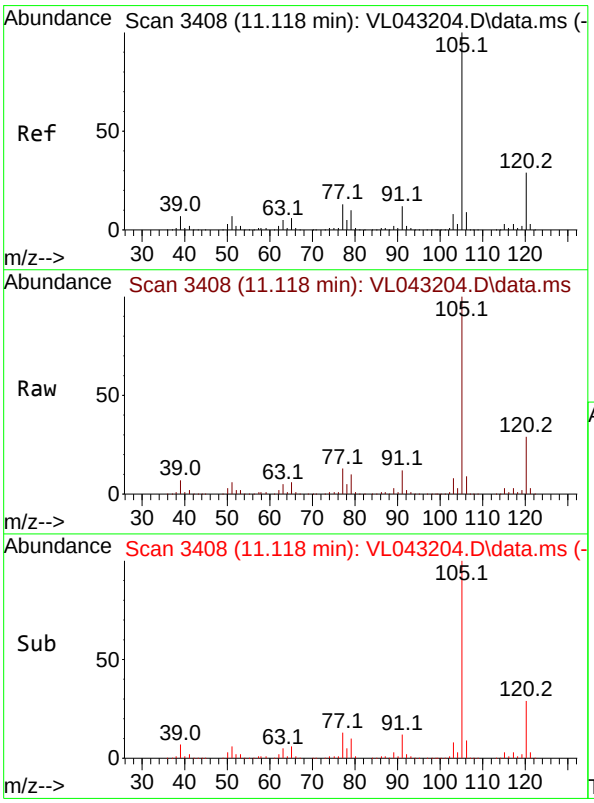
#71
2-Chlorotoluene
Concen: 9.245 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 460118

Ion	Ratio	Lower	Upper
91	100		
126	29.2	11.7	46.7

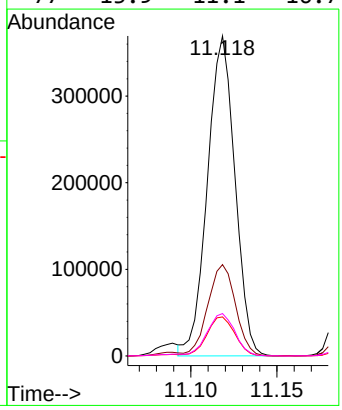


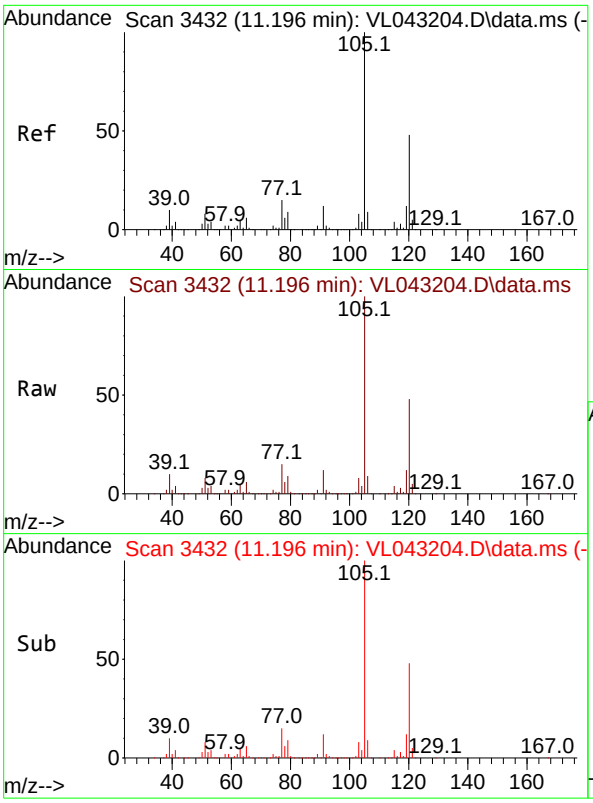


#72
4-Ethyltoluene
Concen: 9.316 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 410587

Ion	Ratio	Lower	Upper
105	100		
120	29.8	23.8	35.8
91	12.9	10.3	15.5
77	13.9	11.1	16.7



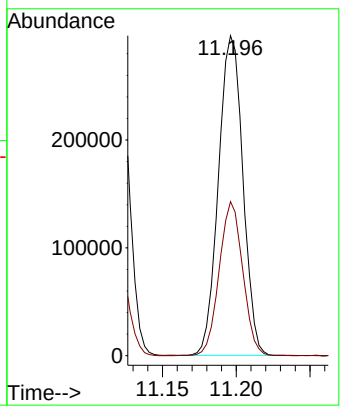


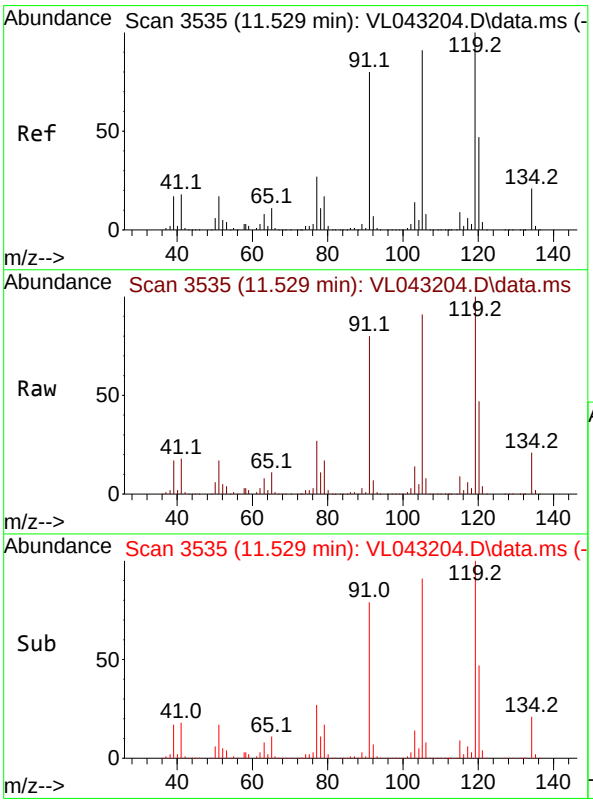
#73
1,3,5-Trimethylbenzene
Concen: 9.244 ppbv
RT: 11.196 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:105 Resp: 341900

Ion	Ratio	Lower	Upper
105	100		
120	48.2	38.6	57.8

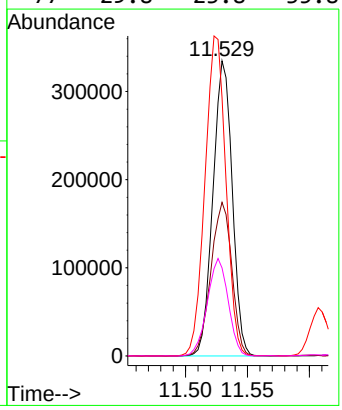


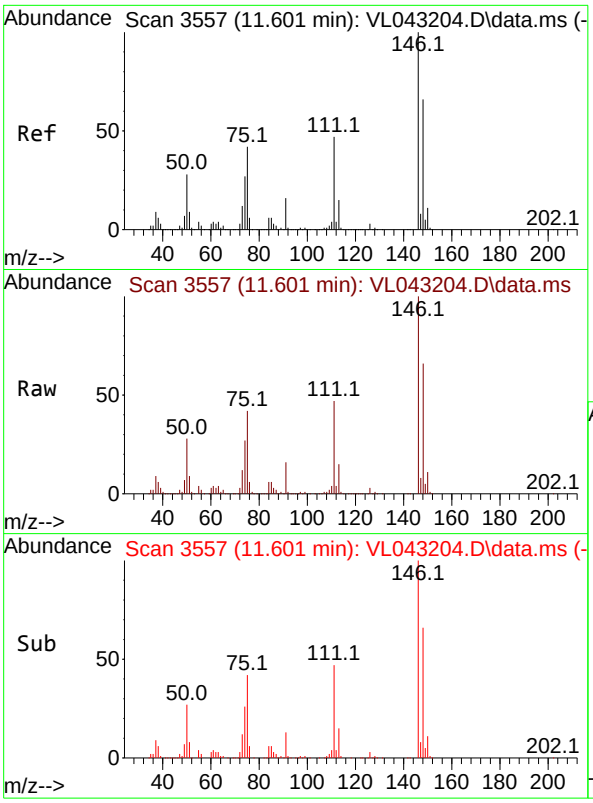


#74
1,2,4-Trimethylbenzene
Concen: 9.005 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:105 Resp: 363476

Ion	Ratio	Lower	Upper
105	100		
120	52.1	41.7	62.5
91	87.5	70.0	105.0
77	29.8	23.8	35.8



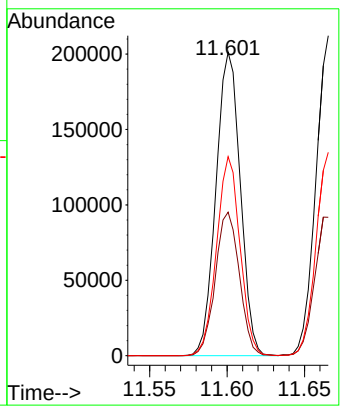


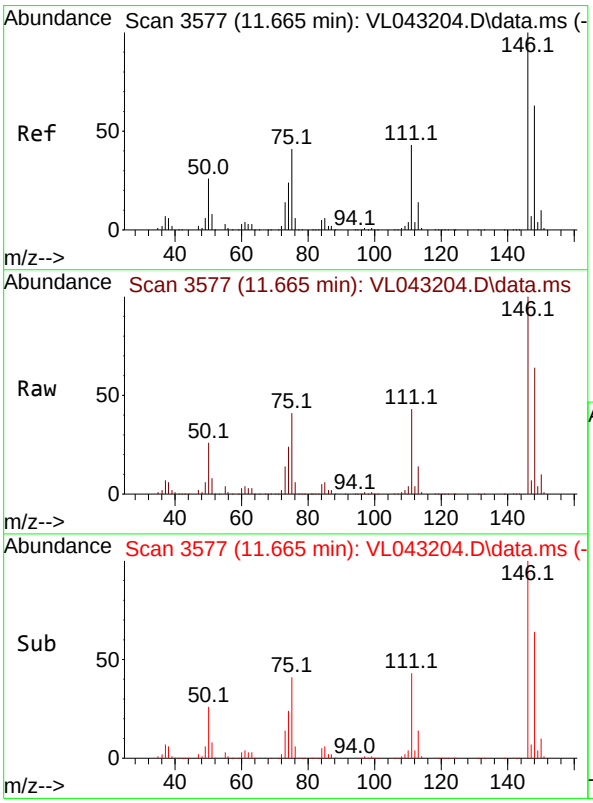
#75
1,3-Dichlorobenzene
Concen: 9.335 ppbv
RT: 11.601 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 219894

Ion	Ratio	Lower	Upper
146	100		
111	46.9	23.4	70.3
148	63.3	31.6	95.0

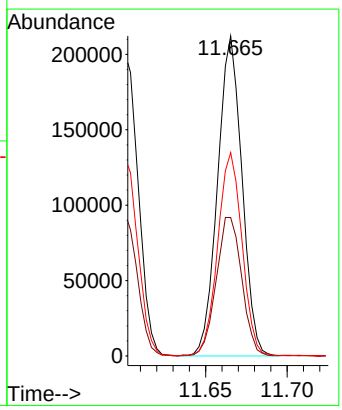


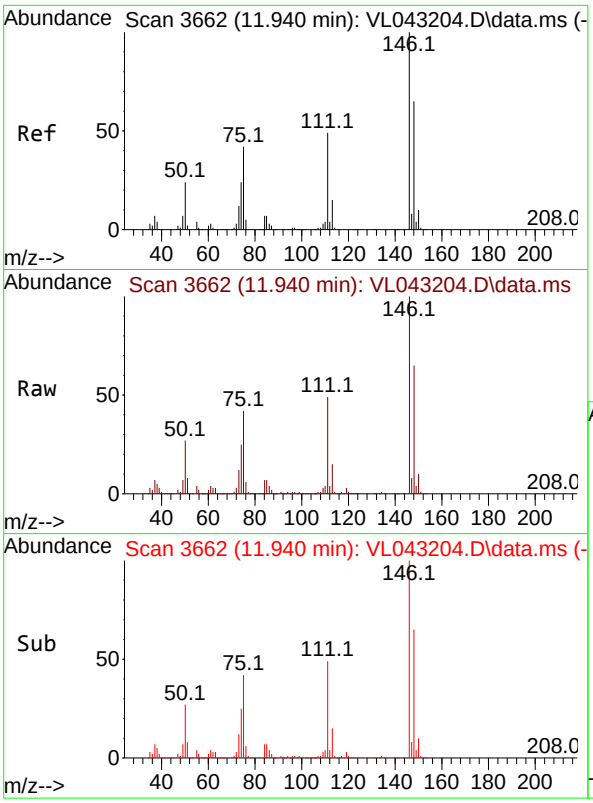


#76
1,4-Dichlorobenzene
Concen: 9.363 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:146 Resp: 220576

Ion	Ratio	Lower	Upper
146	100		
111	45.5	22.8	68.3
148	63.6	31.8	95.4



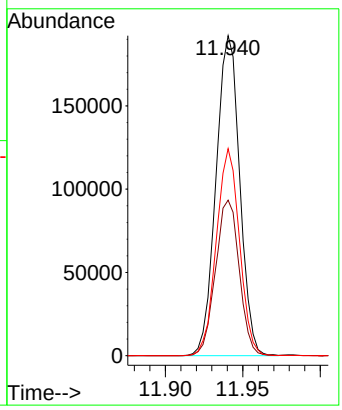


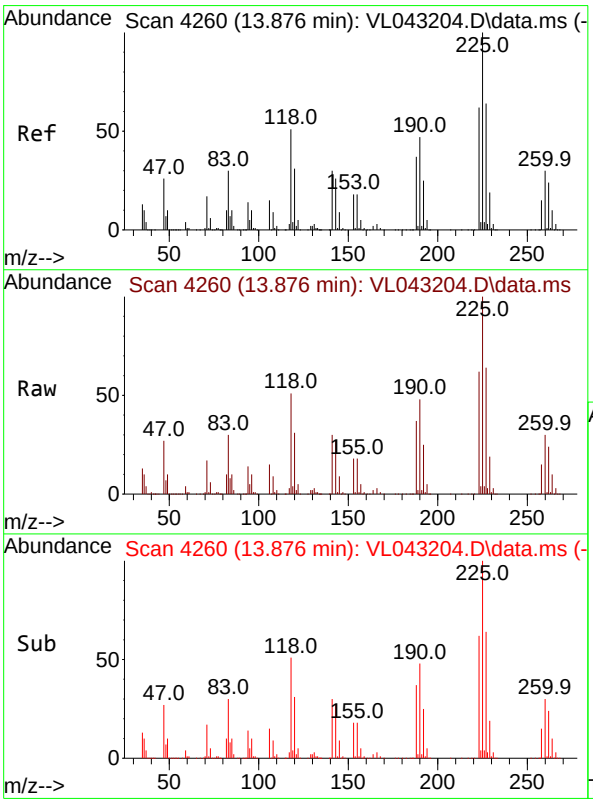
#77
1,2-Dichlorobenzene
Concen: 9.044 ppbv
RT: 11.940 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 204826

Ion	Ratio	Lower	Upper
146	100		
111	48.7	24.3	73.0
148	63.1	31.6	94.7

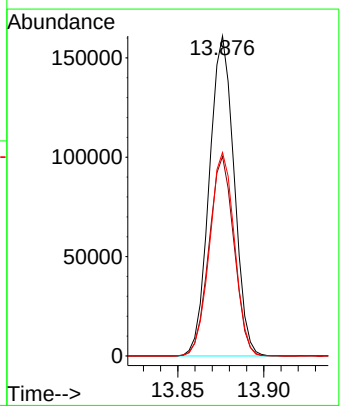


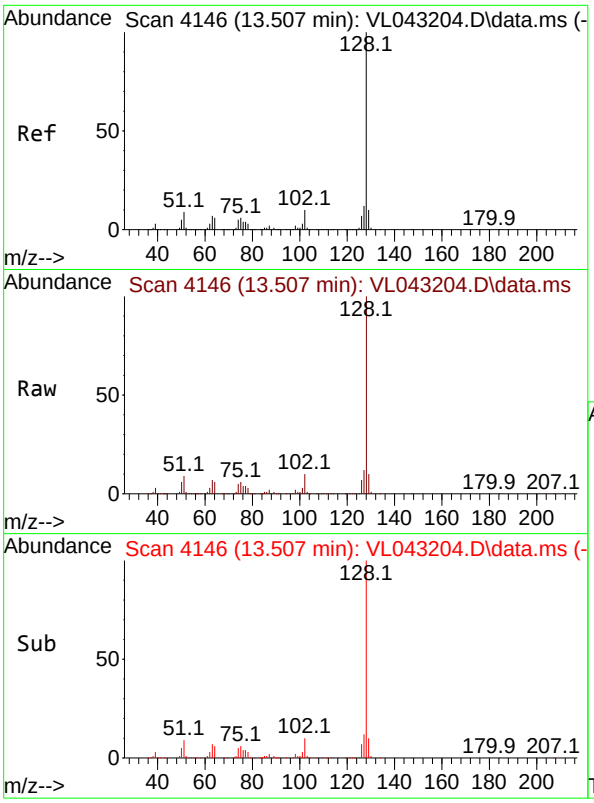


#78
Hexachloro-1,3-Butadiene
Concen: 8.520 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:225 Resp: 161034

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.4
227	63.9	51.1	76.7



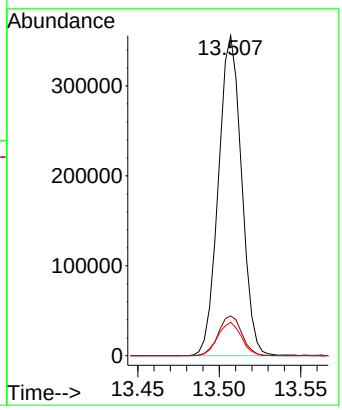


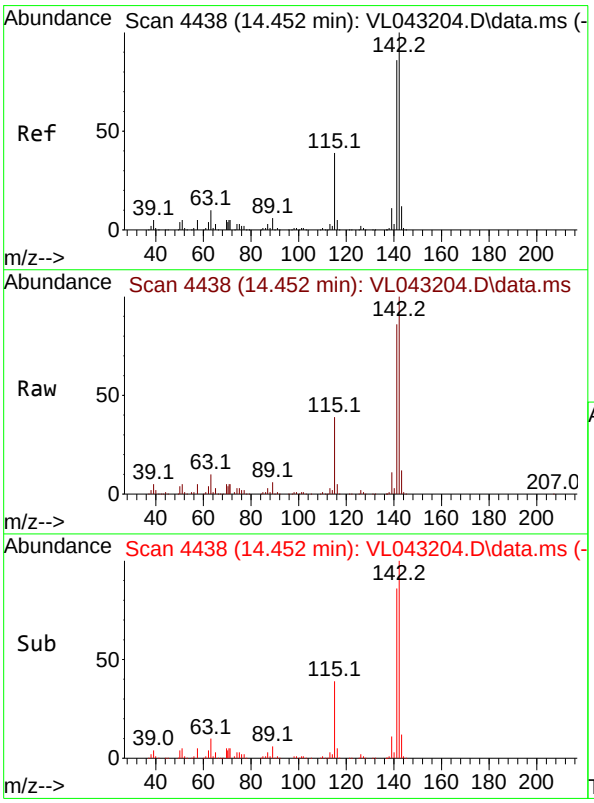
#79
Naphthalene
Concen: 9.795 ppbv
RT: 13.507 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:128 Resp: 351148

Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.9	14.9
129	10.5	8.4	12.6

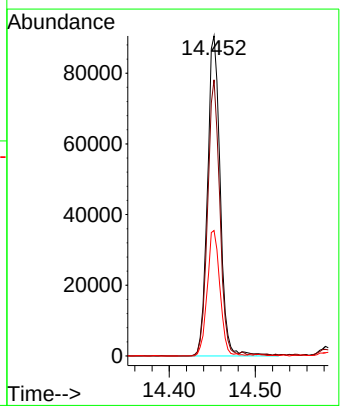


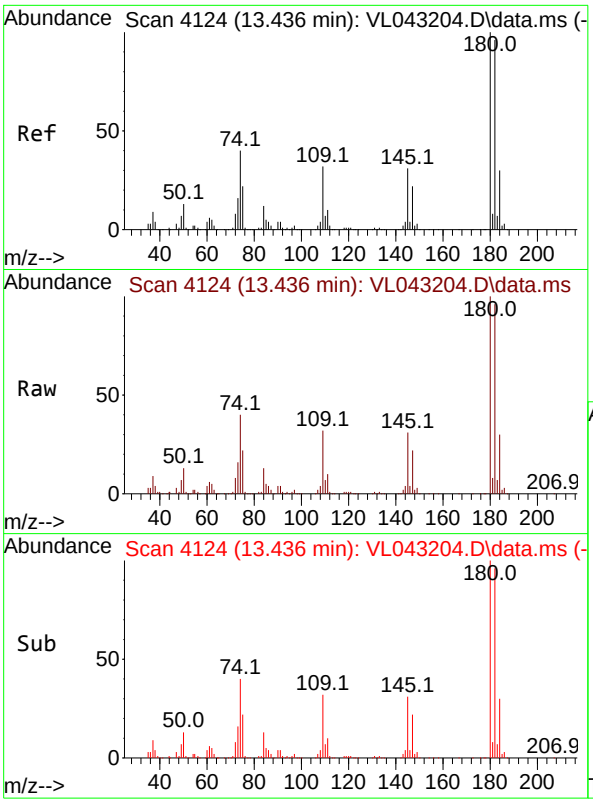


#80
Naphthalene,2-methyl-
Concen: 9.895 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Tgt Ion:142 Resp: 93113

Ion	Ratio	Lower	Upper
142	100		
141	83.9	67.1	100.7
115	39.9	31.9	47.9



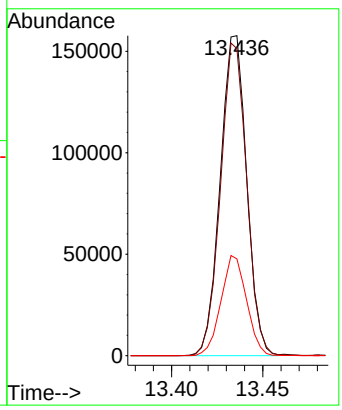


#81
1,2,4-Trichlorobenzene
Concen: 9.923 ppbv
RT: 13.436 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043204.D
Acq: 18 Nov 2025 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:180 Resp: 159091

Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.4	116.2
184	30.3	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043205.D
Acq On : 18 Nov 2025 10:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Nov 19 00:50:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	104644	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	284629	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.878	117	230646	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	171009	10.115	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	30881	2.092	ppbv		98
3) Chlorodifluoromethane	1.476	51	30069	2.072	ppbv		98
4) Chloromethane	1.534	50	11890	2.155	ppbv		96
5) Vinyl Chloride	1.580	62	12040	1.995	ppbv		96
6) Bromomethane	1.670	94	5981	2.044	ppbv		99
7) Chloroethane	1.706	64	4943	2.103	ppbv		95
8) Dichlorotetrafluoroethane	1.554	85	26409	2.151	ppbv		98
9) Propene	1.486	41	12993	1.930	ppbv	#	1
10) Heptane	4.978	43	17701	0.958	ppbv	#	28
11) Trichlorofluoromethane	1.878	101	31124	2.177	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.140	101	23336	2.090	ppbv		100
13) Ethanol	1.722	45	5266	2.430	ppbv		86
14) Bromoethene	1.784	108	9129	2.133	ppbv		95
15) Acetone	1.835	43	31785	2.186	ppbv		91
16) 1,3-Butadiene	1.609	39	13101	2.021	ppbv		89
17) tert-Butyl alcohol	2.039	59	39348	2.062	ppbv		95
18) 1,1-Dichloroethene	2.036	96	10780	2.074	ppbv		94
19) Isopropyl Alcohol	1.887	45	17229	2.097	ppbv	#	71
20) Methylene Chloride	2.062	84	12238	2.248	ppbv		96
21) Allyl Chloride	2.098	41	19580	2.002	ppbv		95
22) trans-1,2-Dichloroethene	2.340	96	12537	2.110	ppbv		94
23) Vinyl Acetate	2.460	43	35205	2.006	ppbv	#	97
24) 1,1-Dichloroethane	2.408	63	24987	2.179	ppbv		99
25) Ethyl Acetate	2.832	43	64343	2.048	ppbv		99
26) Hexane	2.826	57	28776	2.093	ppbv		97
27) Carbon Disulfide	2.149	76	29964	2.135	ppbv	#	91
28) Methyl tert-Butyl Ether	2.438	73	14101	2.090	ppbv	#	85
29) Chloroform	2.849	83	40355	2.065	ppbv		98
30) Cyclohexane	3.855	84	23659	2.053	ppbv		98
31) cis-1,2-Dichloroethene	2.722	61	27663	2.024	ppbv		98
32) 1,1,1-Trichloroethane	3.366	97	42547	2.024	ppbv		99
34) 2-Butanone	2.557	43	41884	2.085	ppbv		99
35) Carbon Tetrachloride	3.765	117	41949	1.942	ppbv		96
36) Benzene	3.654	78	36362	1.334	ppbv	#	94
37) 1,2-Dichloroethane	3.218	62	32188	2.019	ppbv		100
38) Trichloroethene	4.541	130	10841	1.015	ppbv		89
39) 1,2-Dichloropropane	4.312	63	19913	1.996	ppbv		93
40) 1,4-Dioxane	4.580	88	3232	0.721	ppbv	#	18
41) Tetrahydrofuran	3.056	42	22912	2.065	ppbv		99
42) Bromodichloromethane	4.490	83	44584	2.027	ppbv		98
43) Methyl Methacrylate	4.875	69	29071	2.009	ppbv		99
44) 2,2,4-Trimethylpentane	4.635	57	92261	1.971	ppbv		96
45) t-1,3-Dichloropropene	6.406	75	14338	1.063	ppbv		95

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043205.D
Acq On : 18 Nov 2025 10:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Nov 19 00:50:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

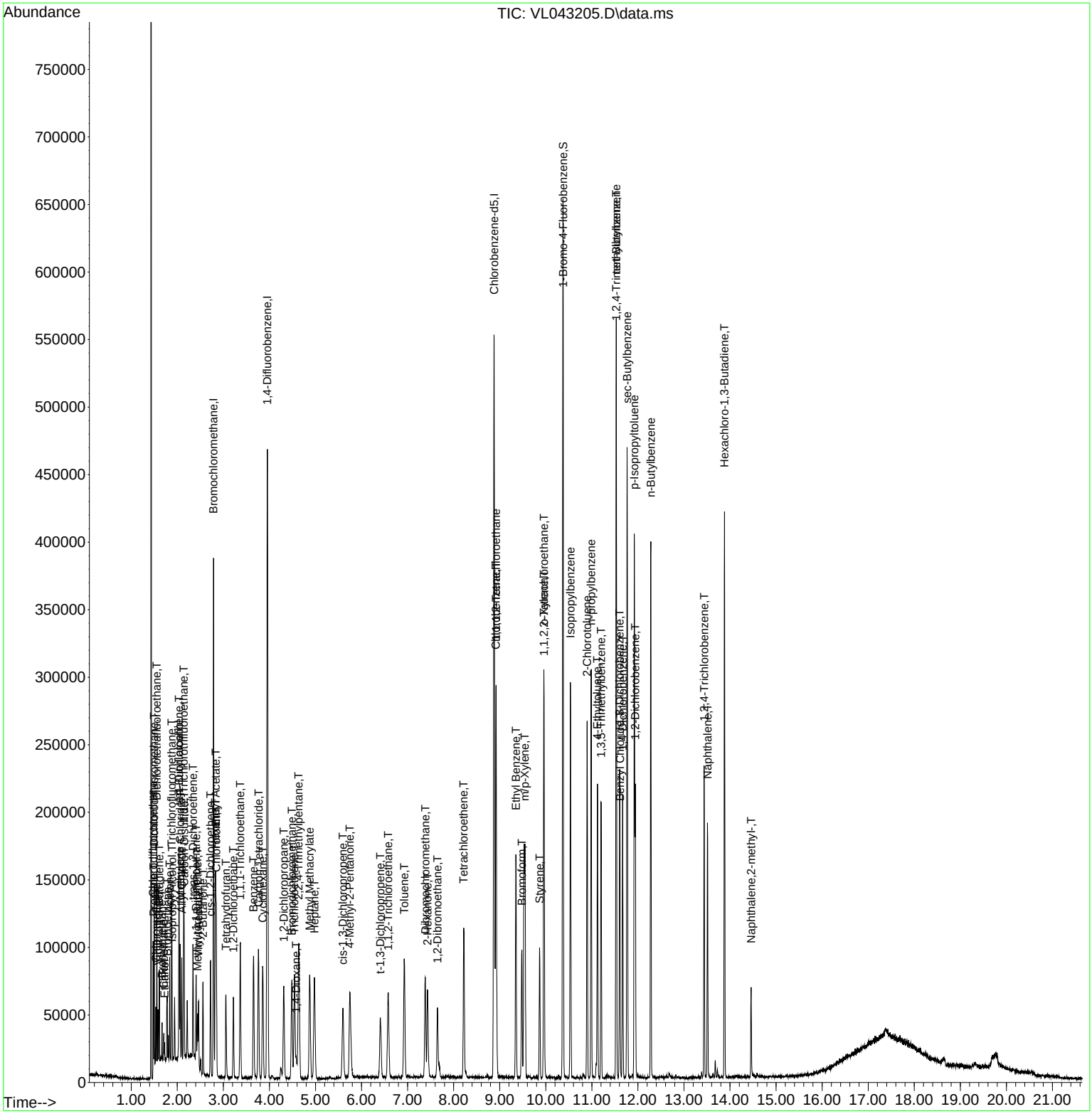
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	31986	2.020	ppbv		91
47) 1,1,2-Trichloroethane	6.577	97	12775	1.201	ppbv		96
48) Dibromochloromethane	7.386	129	16152	0.887	ppbv	#	10
49) Bromoform	9.480	173	33057	2.050	ppbv		98
50) 4-Methyl-2-Pentanone	5.745	43	58461	2.066	ppbv		98
51) 2-Hexanone	7.432	43	46444	2.113	ppbv	#	99
52) Tetrachloroethene	8.218	164	19856	1.958	ppbv		96
53) Toluene	6.927	91	65238	2.008	ppbv		97
54) 1,2-Dibromoethane	7.648	107	31266	2.007	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.920	131	35099	2.071	ppbv		99
57) Chlorobenzene	8.917	112	50228	2.121	ppbv		97
58) Ethyl Benzene	9.351	91	92649	2.087	ppbv		98
59) m/p-Xylene	9.545	91	65660	1.838	ppbv	#	31
60) o-Xylene	9.959	91	76540	2.153	ppbv		100
61) Styrene	9.866	104	33188	2.133	ppbv		98
62) Isopropylbenzene	10.536	105	135853	2.136	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.963	83	47439	2.102	ppbv		99
64) n-propylbenzene	10.985	120	34915	2.136	ppbv		99
65) tert-Butylbenzene	11.529	119	122064	2.149	ppbv		99
66) Benzyl Chloride	11.610	91	11870	2.059	ppbv		99
67) sec-Butylbenzene	11.765	105	170529	2.151	ppbv		100
69) p-Isopropyltoluene	11.921	119	147482	2.195	ppbv		98
70) n-Butylbenzene	12.280	91	144148	2.212	ppbv		99
71) 2-Chlorotoluene	10.898	91	101951	2.085	ppbv		100
72) 4-Ethyltoluene	11.121	105	92654	2.140	ppbv		99
73) 1,3,5-Trimethylbenzene	11.202	105	76655	2.110	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	86286	2.176	ppbv		98
75) 1,3-Dichlorobenzene	11.604	146	48961	2.116	ppbv		98
76) 1,4-Dichlorobenzene	11.668	146	48881	2.112	ppbv		98
77) 1,2-Dichlorobenzene	11.944	146	48431	2.177	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	42456	2.287	ppbv		99
79) Naphthalene	13.510	128	85788	2.436	ppbv		97
80) Naphthalene,2-methyl-	14.458	142	20685	2.237	ppbv		98
81) 1,2,4-Trichlorobenzene	13.439	180	37521	2.382	ppbv		99

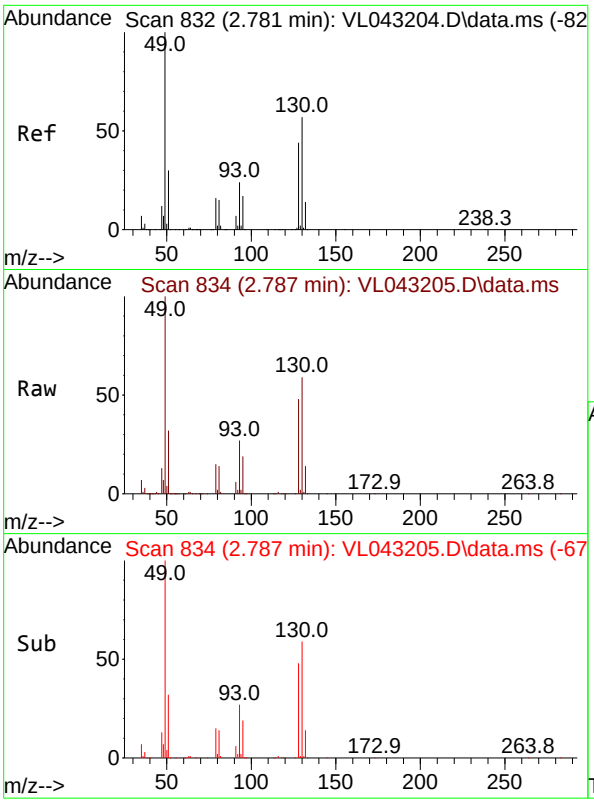
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043205.D
Acq On : 18 Nov 2025 10:37
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Nov 19 00:50:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration



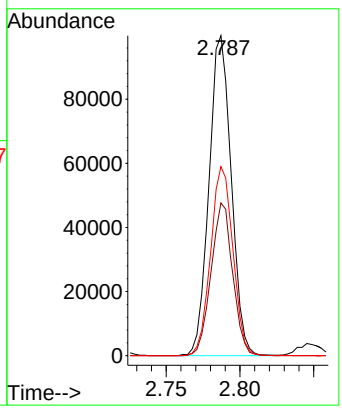


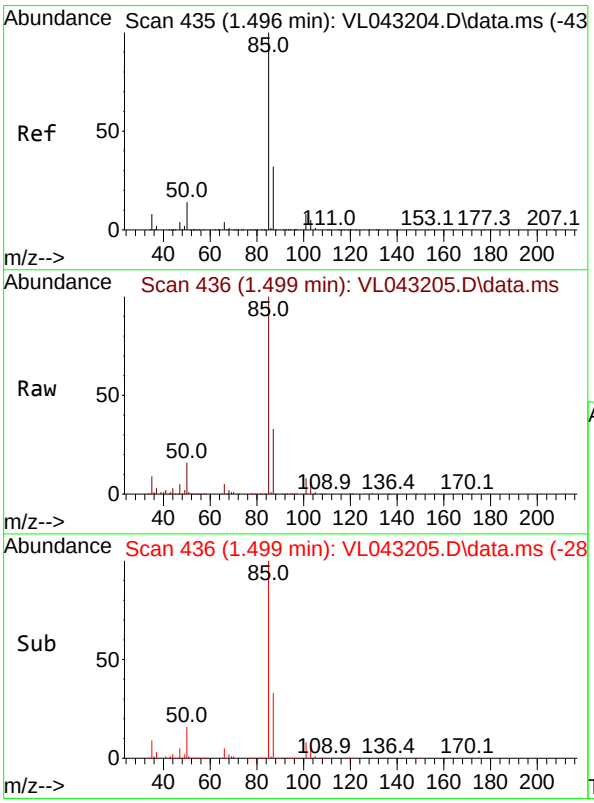
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 49 Resp: 104644

Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.0	69.0
130	59.1	29.9	89.7

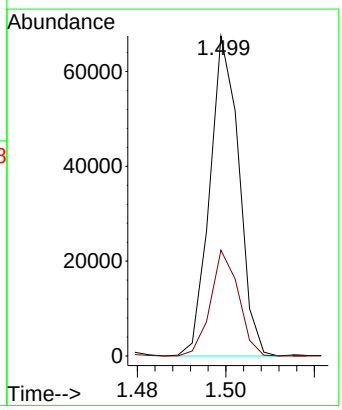


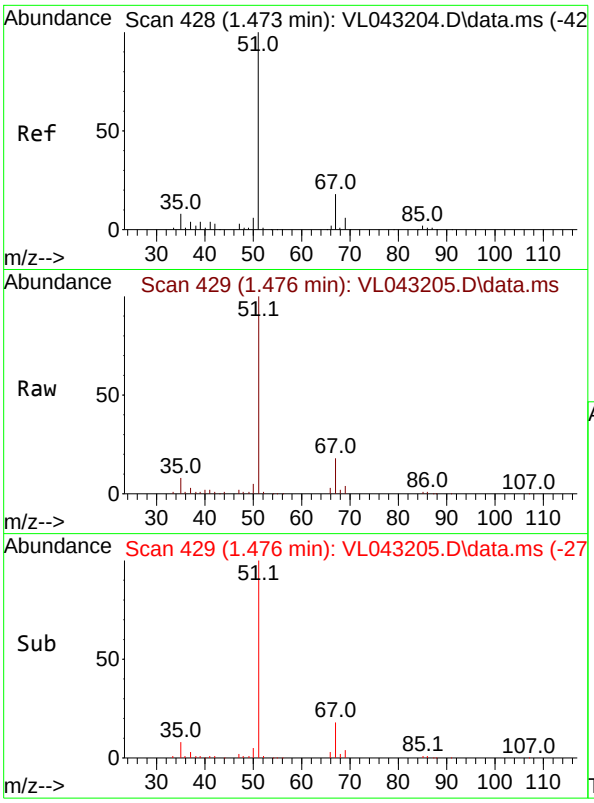


#2
Dichlorodifluoromethane
Concen: 2.092 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 85 Resp: 30881

Ion	Ratio	Lower	Upper
85	100		
87	33.1	25.4	38.2



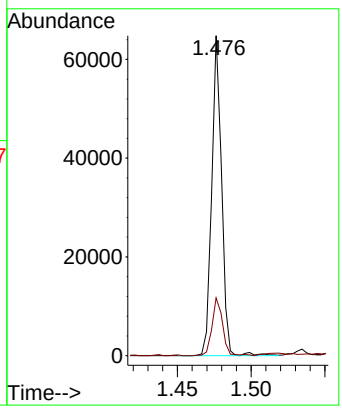


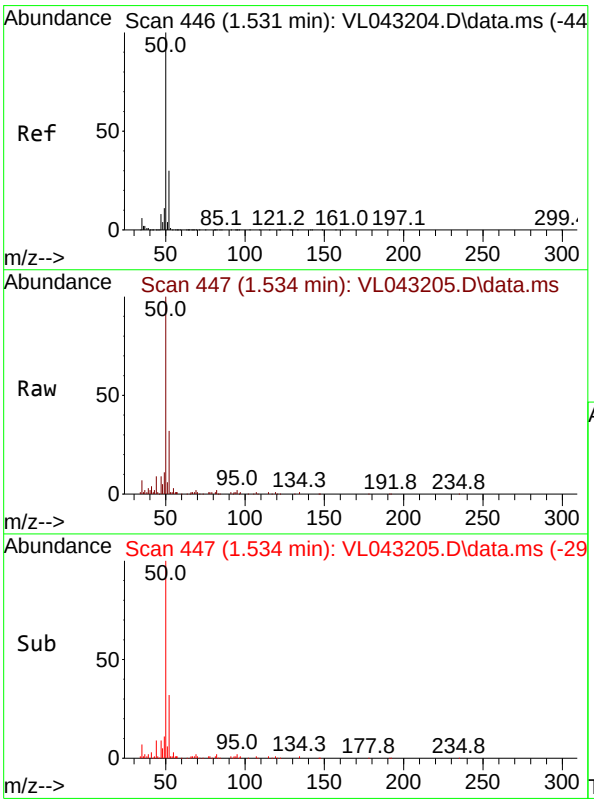
#3
Chlorodifluoromethane
Concen: 2.072 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 30069

Ion	Ratio	Lower	Upper
51	100		
67	19.4	14.9	22.3

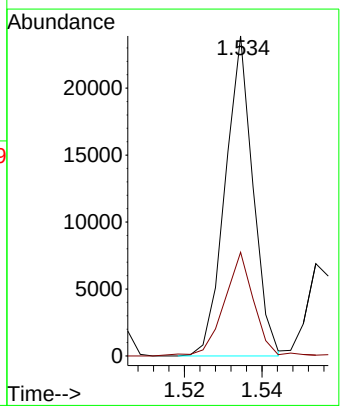


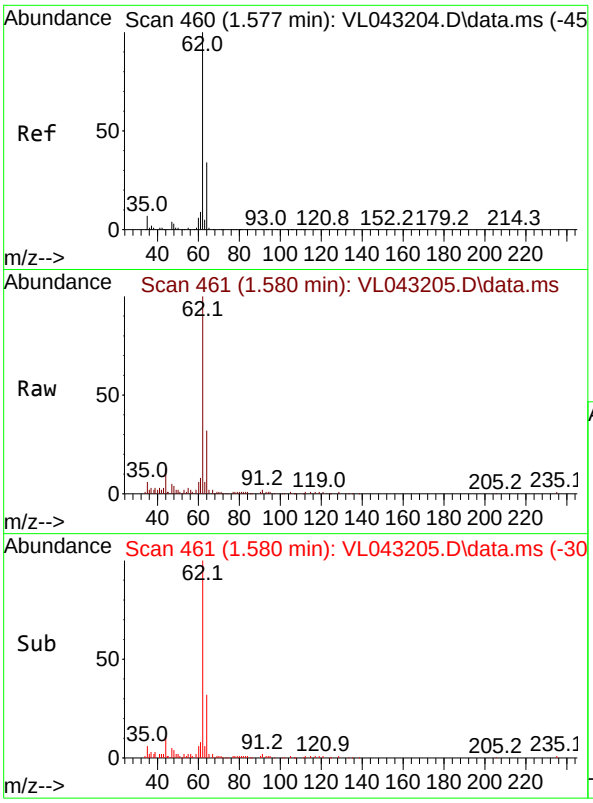


#4
Chloromethane
Concen: 2.155 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 50 Resp: 11890

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.1	36.1



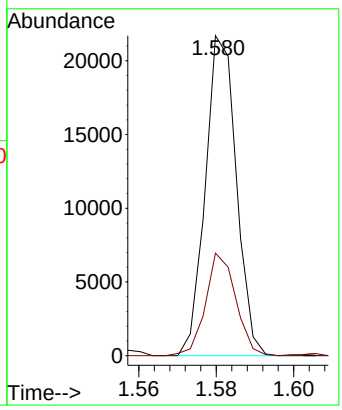


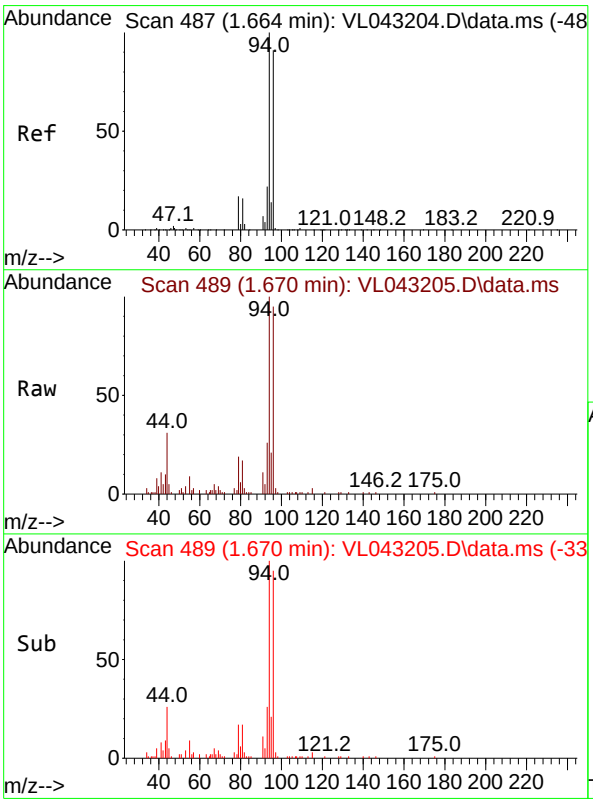
#5
Vinyl Chloride
Concen: 1.995 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 12040

Ion	Ratio	Lower	Upper
62	100		
64	32.1	27.3	40.9

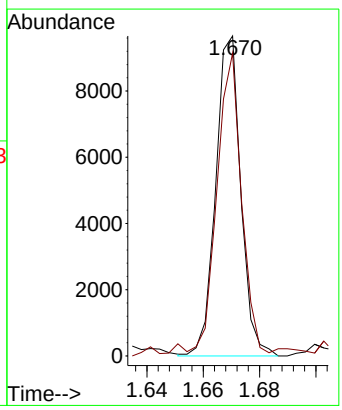


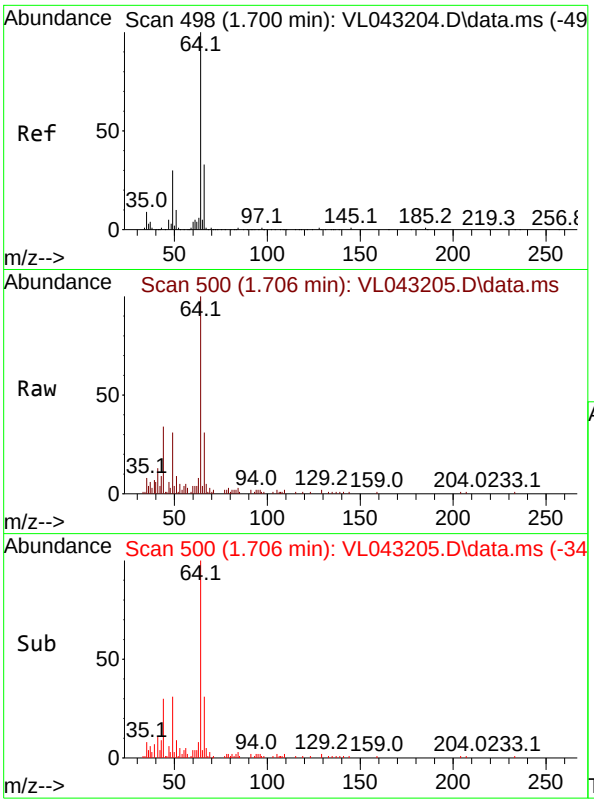


#6
Bromomethane
Concen: 2.044 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 94 Resp: 5981

Ion	Ratio	Lower	Upper
94	100		
96	92.4	72.9	109.3



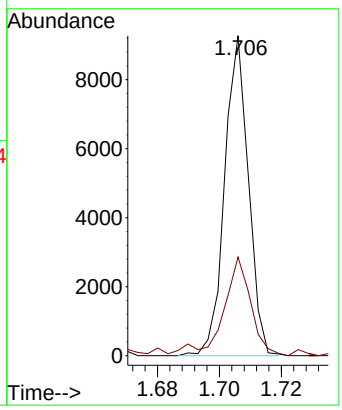


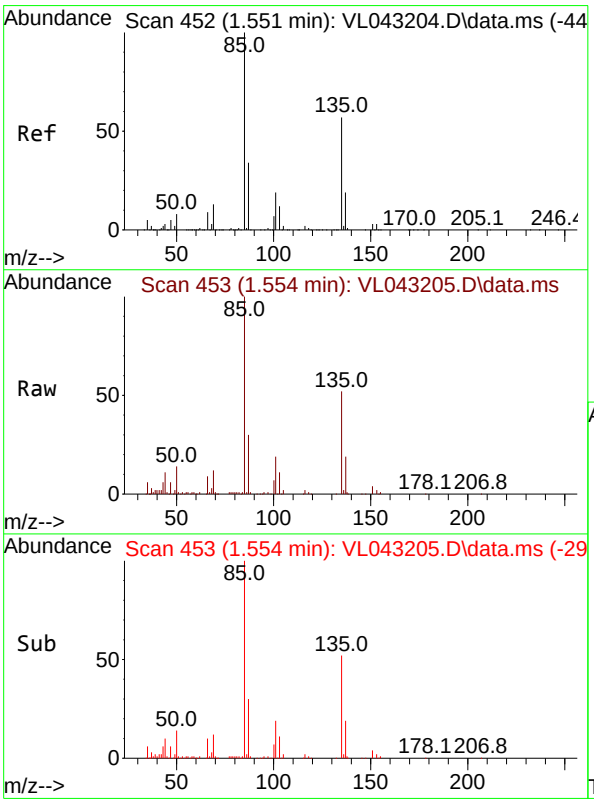
#7
Chloroethane
Concen: 2.103 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 4943

Ion	Ratio	Lower	Upper
64	100		
66	30.8	26.8	40.2

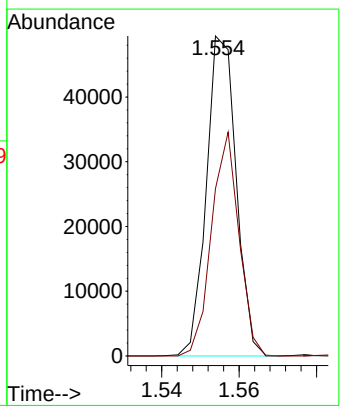


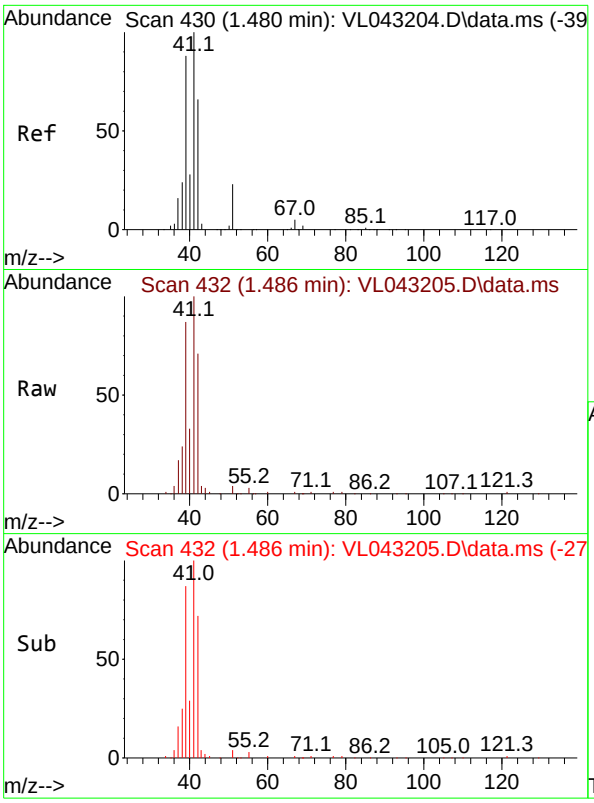


#8
Dichlorotetrafluoroethane
Concen: 2.151 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 85 Resp: 26409

Ion	Ratio	Lower	Upper
85	100		
135	64.3	52.6	79.0



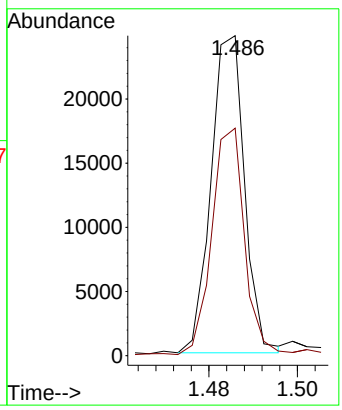


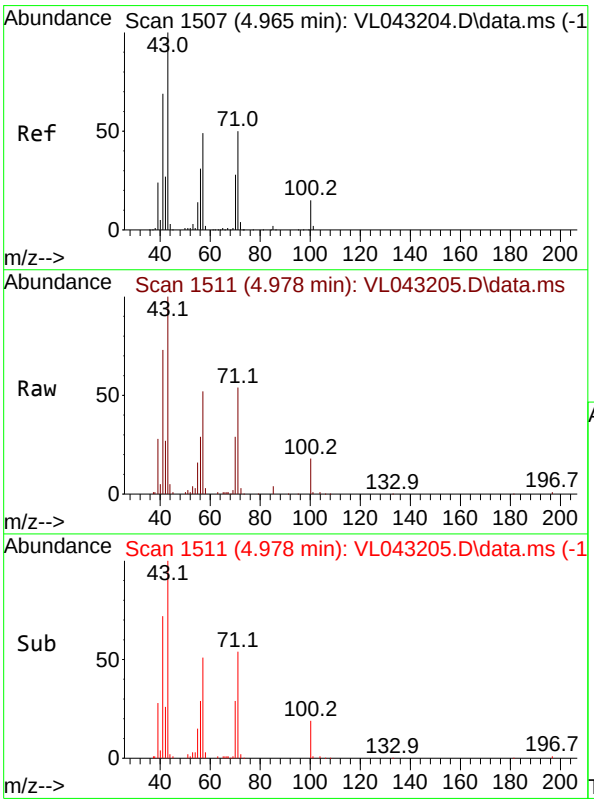
#9
Propene
Concen: 1.930 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 12993

Ion	Ratio	Lower	Upper
41	100		
42	75.1	3.7	5.5#

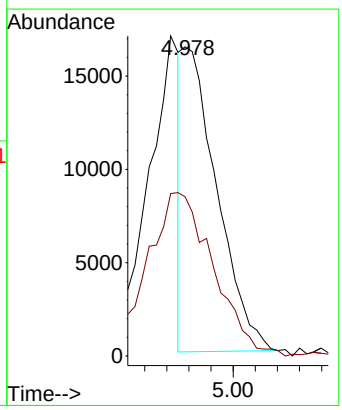


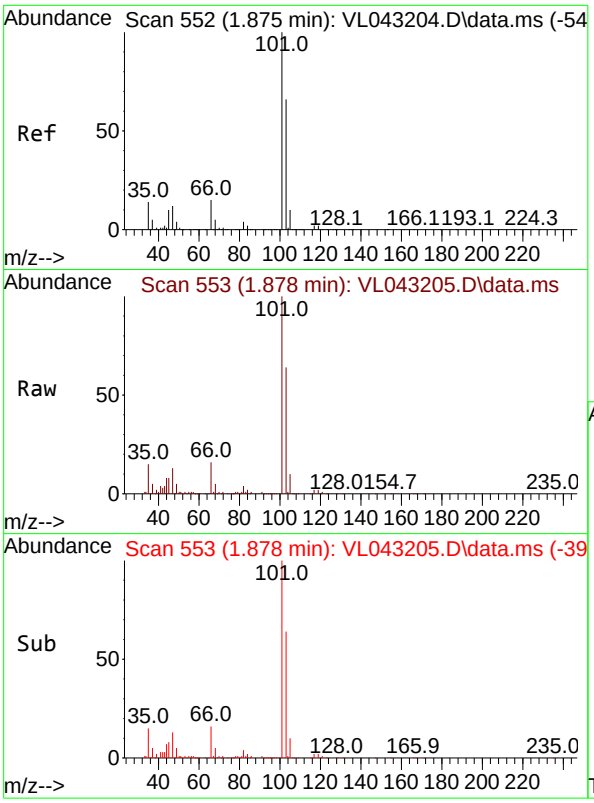


#10
Heptane
Concen: 0.958 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 17701

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#



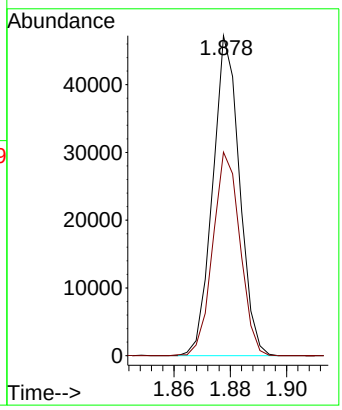


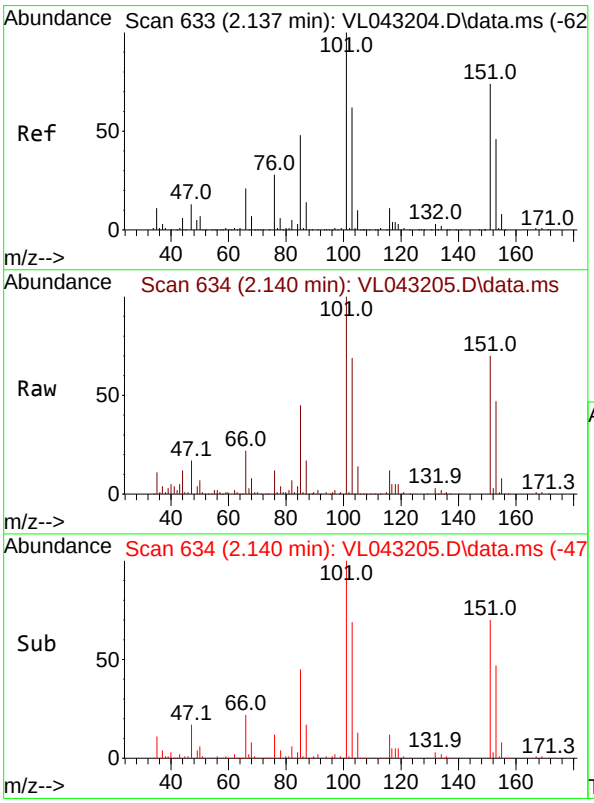
#11
Trichlorofluoromethane
Concen: 2.177 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 31124

Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.6	79.0

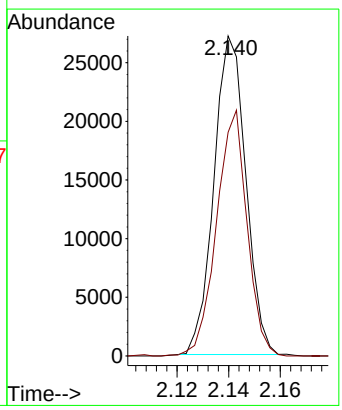


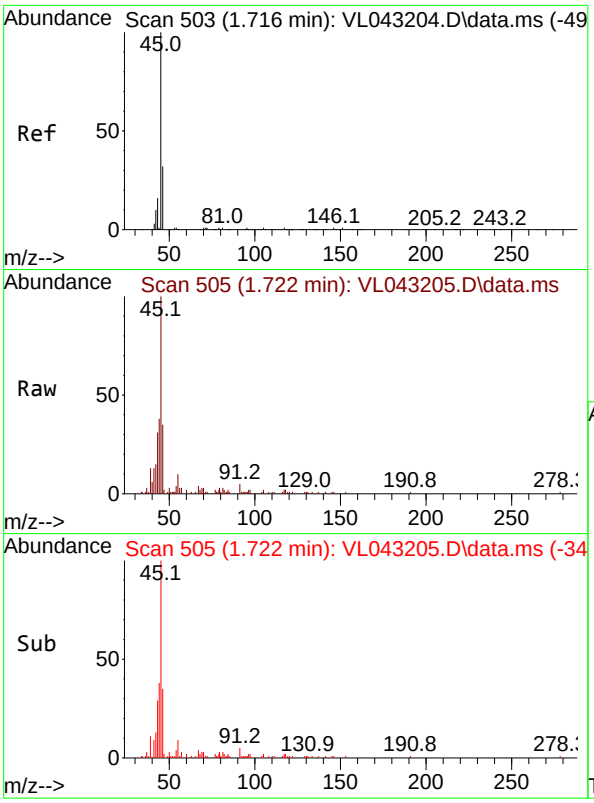


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.090 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:101 Resp: 23336

Ion	Ratio	Lower	Upper
101	100		
151	73.8	59.2	88.8



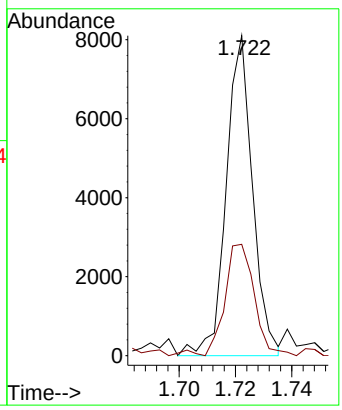


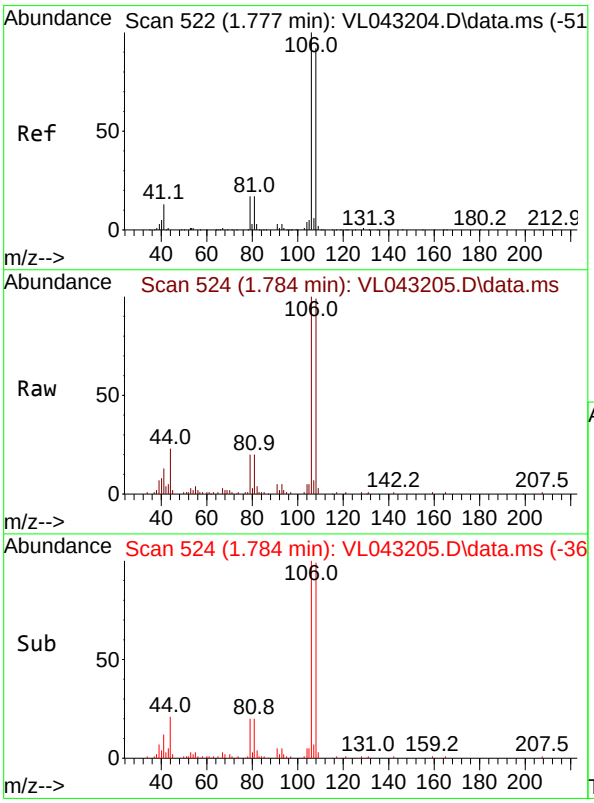
#13
Ethanol
Concen: 2.430 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 5266

Ion	Ratio	Lower	Upper
45	100		
46	45.7	15.0	59.8

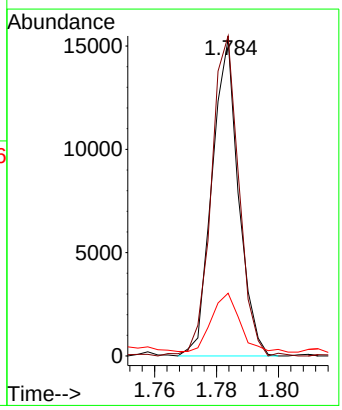


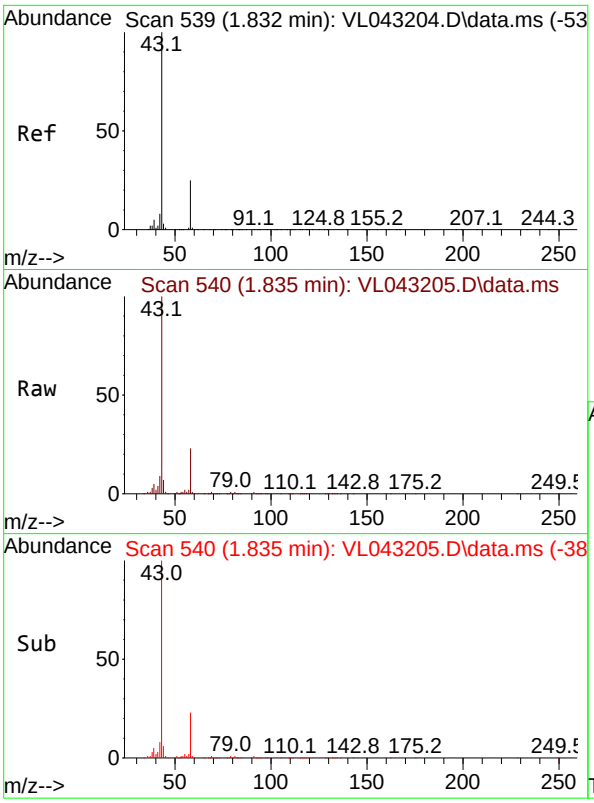


#14
Bromoethene
Concen: 2.133 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:108 Resp: 9129

Ion	Ratio	Lower	Upper
108	100		
106	106.6	88.9	133.3
79	24.3	16.5	24.7



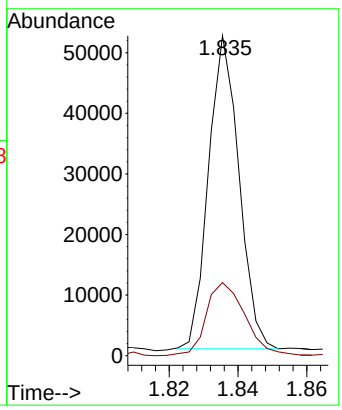


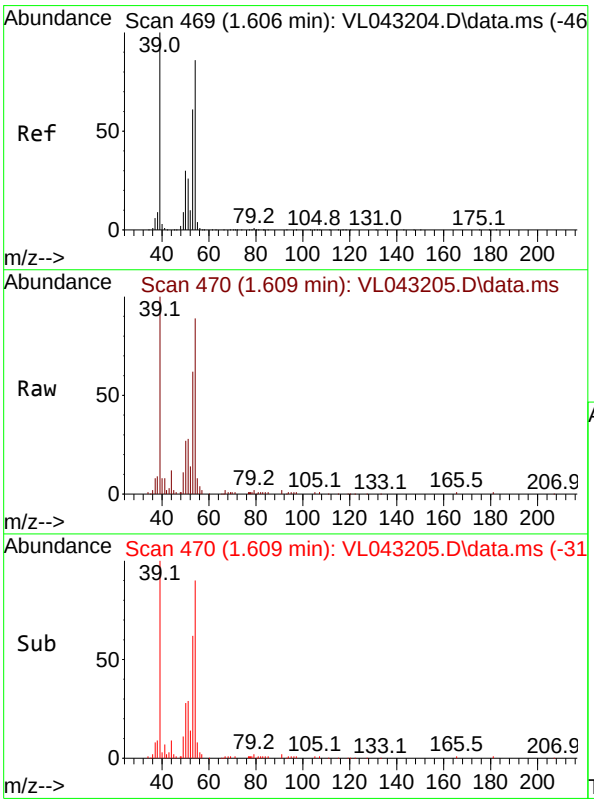
#15
Acetone
Concen: 2.186 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 31785

Ion	Ratio	Lower	Upper
43	100		
58	30.6	20.7	31.1

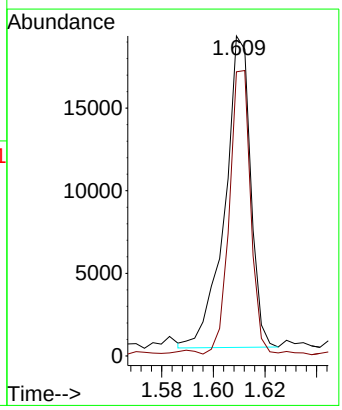


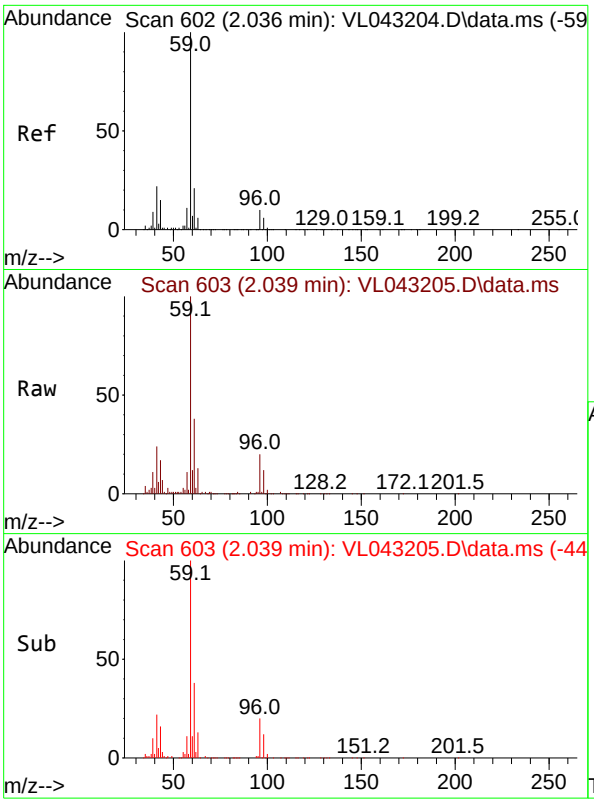


#16
1,3-Butadiene
Concen: 2.021 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 39 Resp: 13101

Ion	Ratio	Lower	Upper
39	100		
54	83.3	59.4	89.2



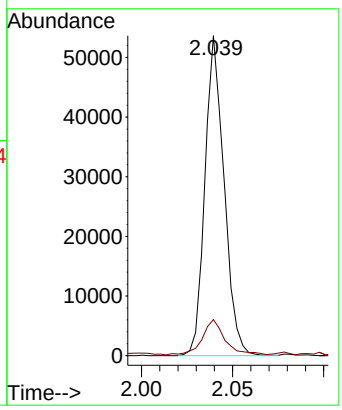


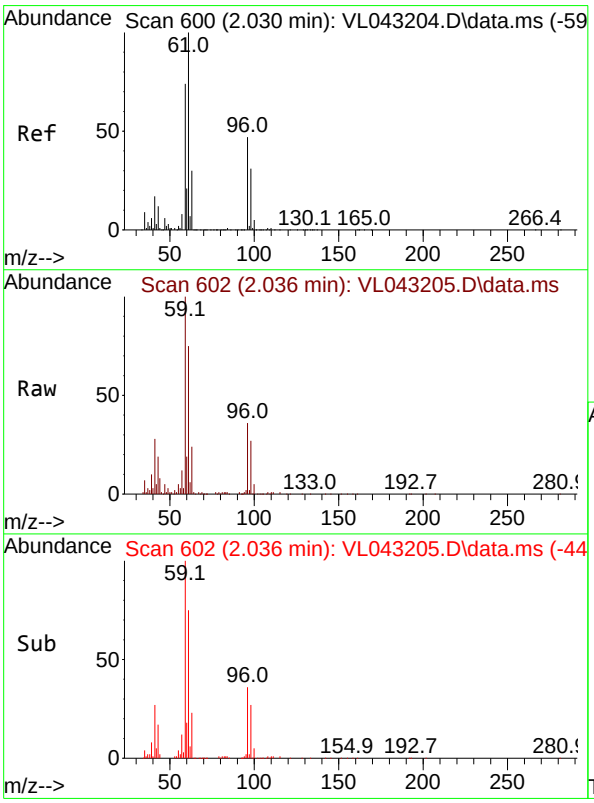
#17
tert-Butyl alcohol
Concen: 2.062 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 39348

Ion	Ratio	Lower	Upper
59	100		
57	13.3	9.0	13.4

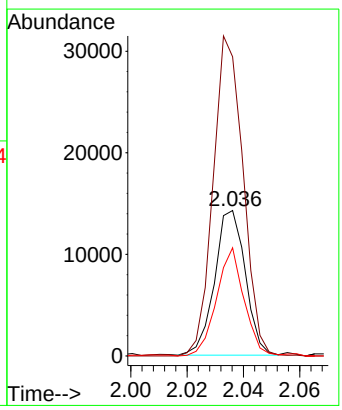


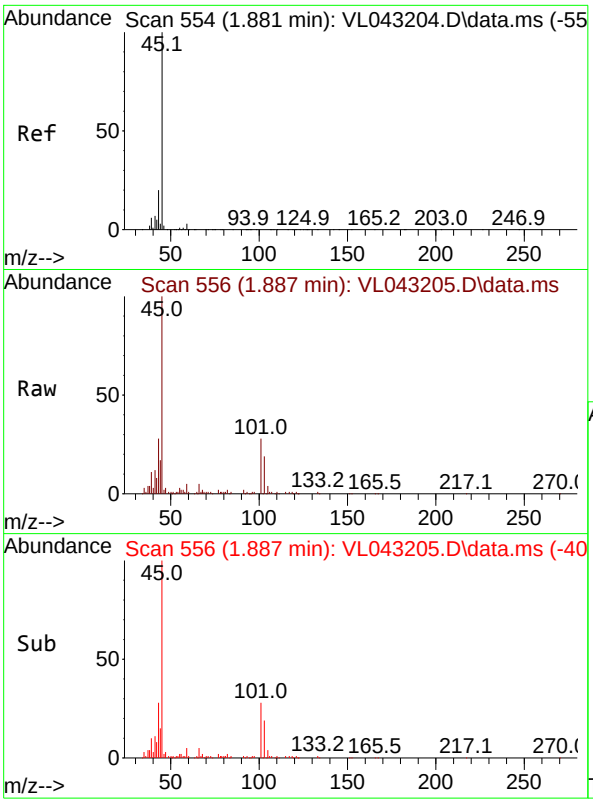


#18
1,1-Dichloroethene
Concen: 2.074 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 96 Resp: 10780

Ion	Ratio	Lower	Upper
96	100		
61	207.0	170.6	255.8
98	74.8	52.2	78.4



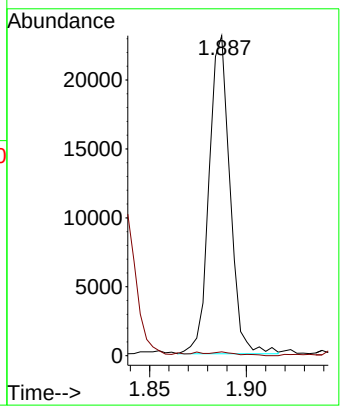


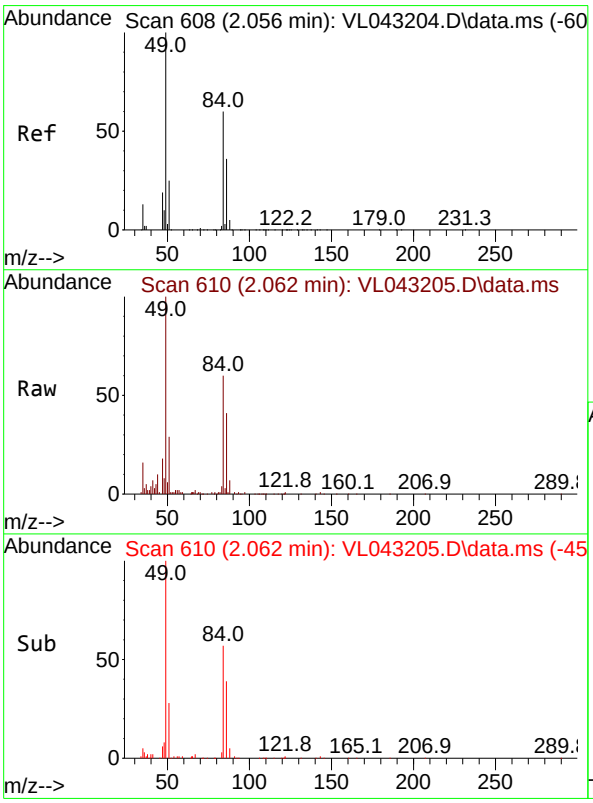
#19
Isopropyl Alcohol
Concen: 2.097 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 17229

Ion	Ratio	Lower	Upper
45	100		
58	56.6	31.3	46.9#

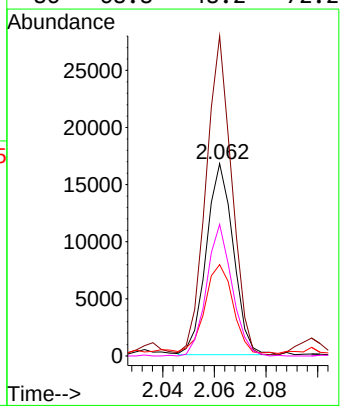


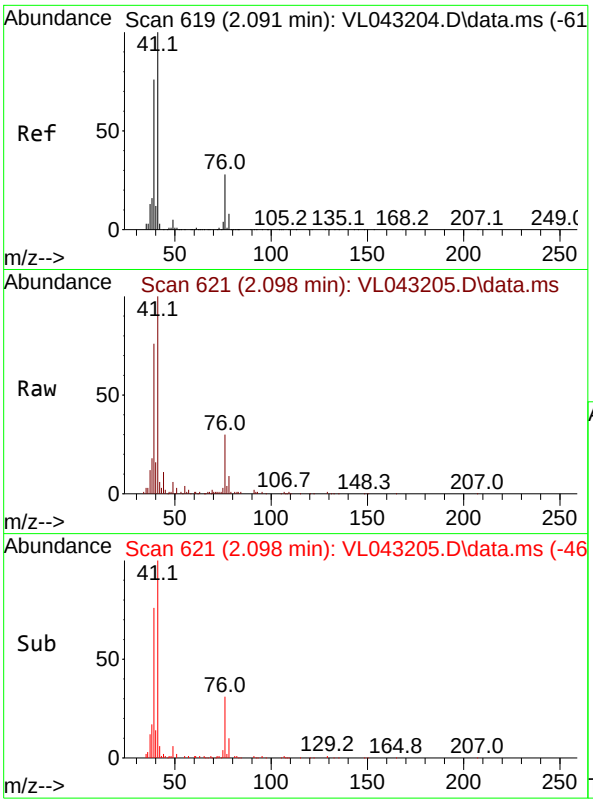


#20
Methylene Chloride
Concen: 2.248 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 84 Resp: 12238

Ion	Ratio	Lower	Upper
84	100		
49	166.8	132.9	199.3
51	46.5	34.8	52.2
86	68.8	48.2	72.2



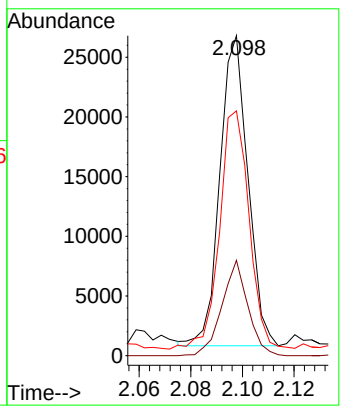


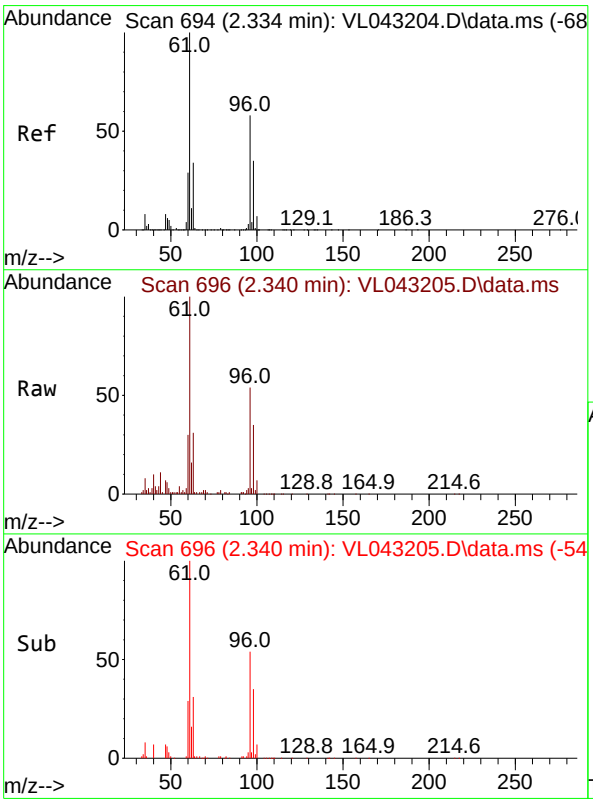
#21
Allyl Chloride
Concen: 2.002 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 41 Resp: 19580

Ion	Ratio	Lower	Upper
41	100		
76	28.6	22.1	33.1
39	81.8	61.0	91.4

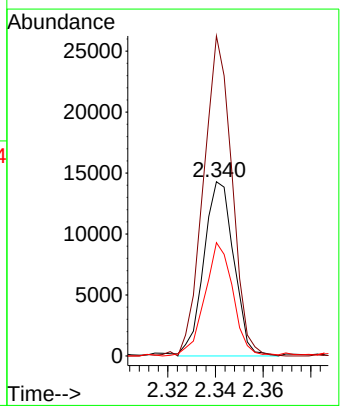


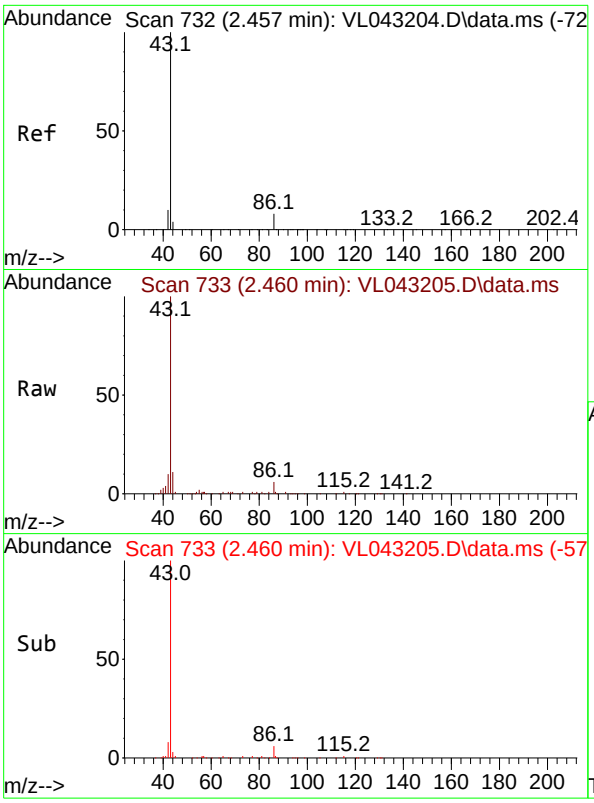


#22
trans-1,2-Dichloroethene
Concen: 2.110 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 96 Resp: 12537

Ion	Ratio	Lower	Upper
96	100		
61	183.6	139.0	208.6
98	64.3	49.4	74.2



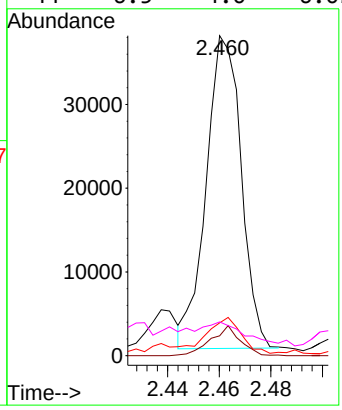


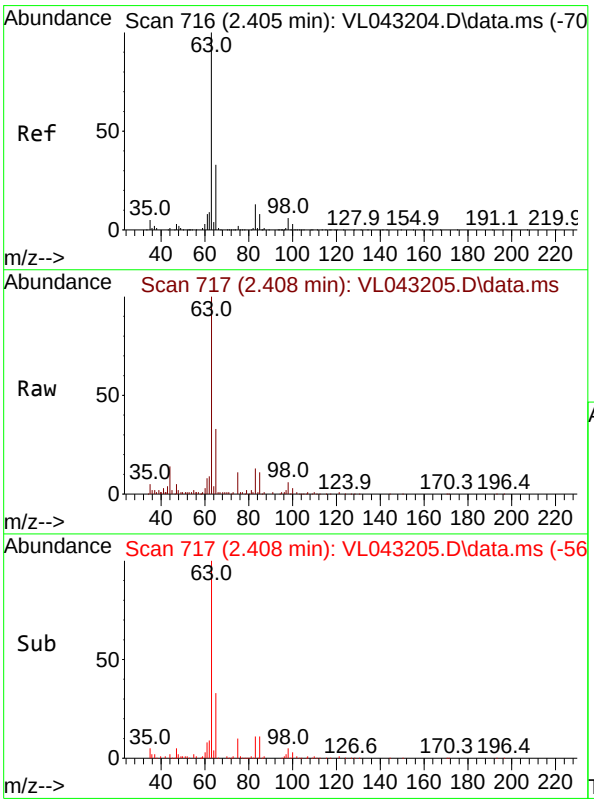
#23
Vinyl Acetate
Concen: 2.006 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 35205

Ion	Ratio	Lower	Upper
43	100		
86	6.8	6.2	9.2
42	9.5	8.0	12.0
44	6.5	4.0	6.0#

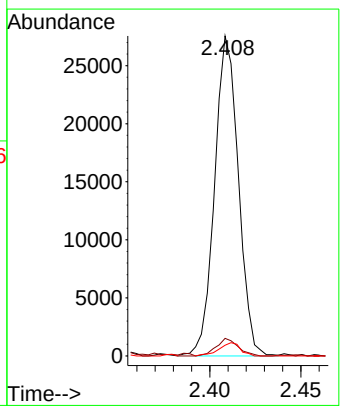


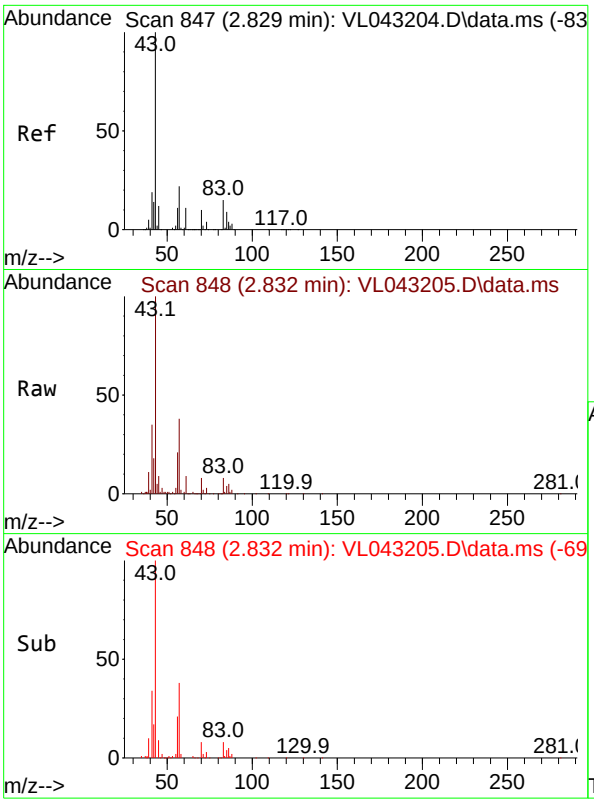


#24
1,1-Dichloroethane
Concen: 2.179 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 63 Resp: 24987

Ion	Ratio	Lower	Upper
63	100		
98	5.3	2.8	8.4
100	3.3	1.3	3.9



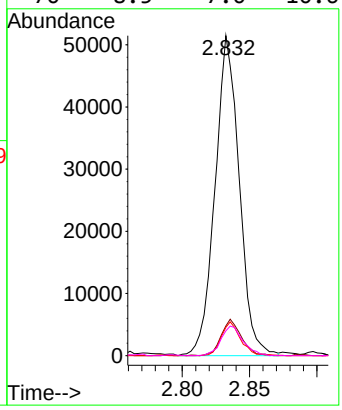


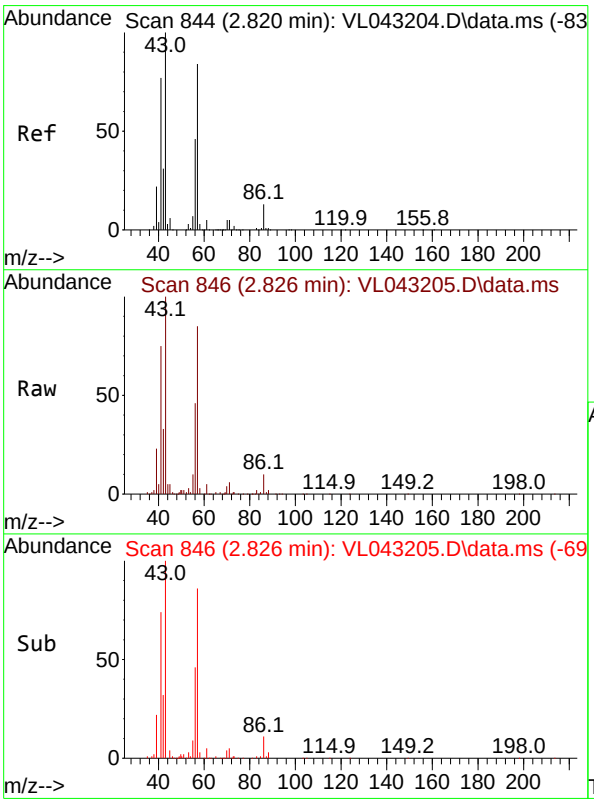
#25
Ethyl Acetate
Concen: 2.048 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 64343

Ion	Ratio	Lower	Upper
43	100		
45	9.6	8.1	12.1
61	8.5	7.0	10.4
70	8.5	7.0	10.6

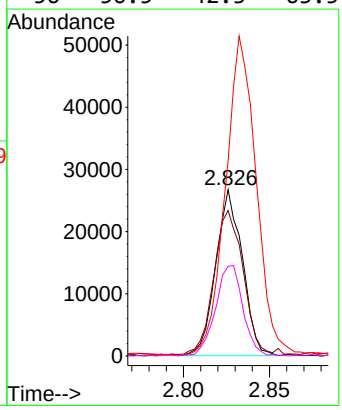


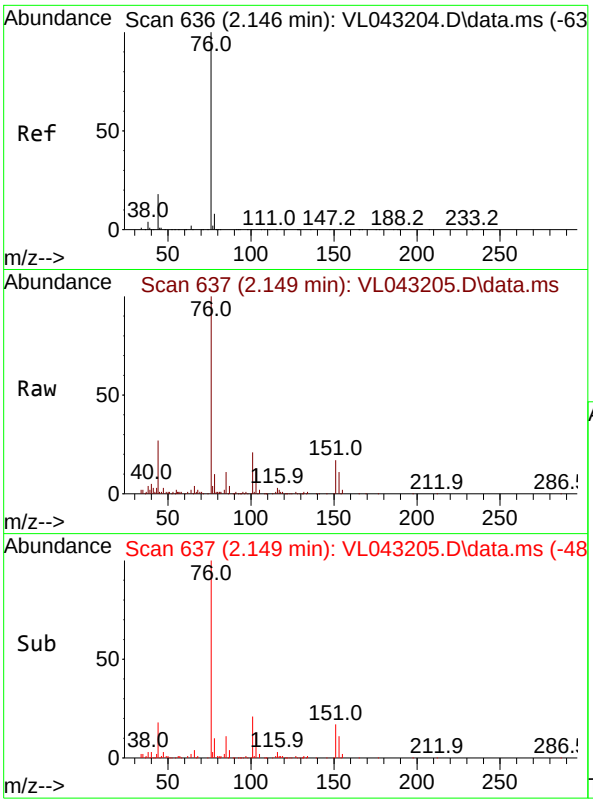


#26
Hexane
Concen: 2.093 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 57 Resp: 28776

Ion	Ratio	Lower	Upper
57	100		
41	96.3	74.6	111.8
43	221.0	179.0	268.4
56	56.5	42.3	63.5



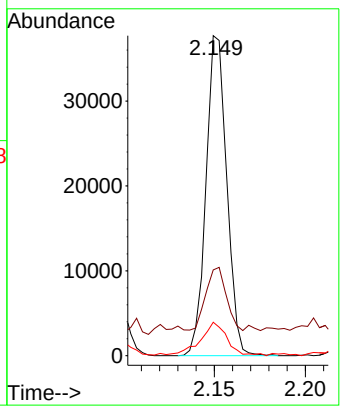


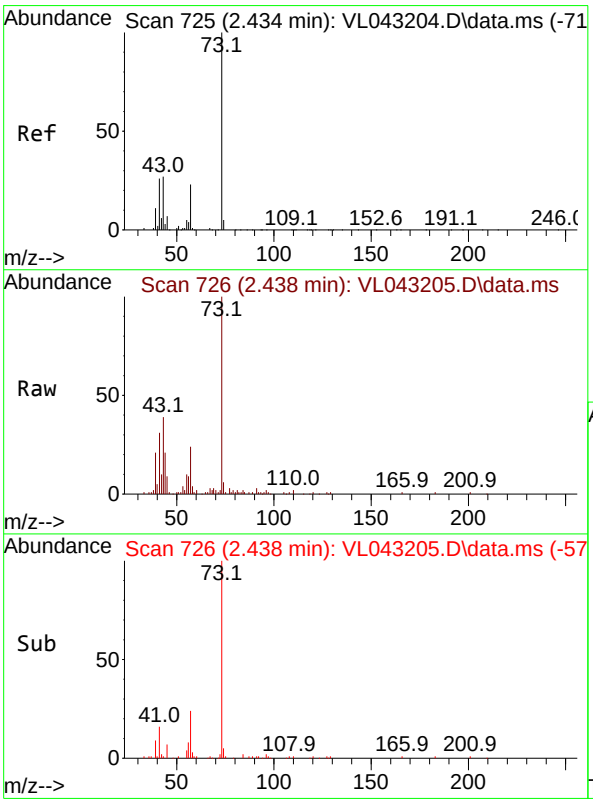
#27
Carbon Disulfide
Concen: 2.135 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 76 Resp: 29964

Ion	Ratio	Lower	Upper
76	100		
44	26.0	16.1	24.1#
78	13.5	9.6	14.4

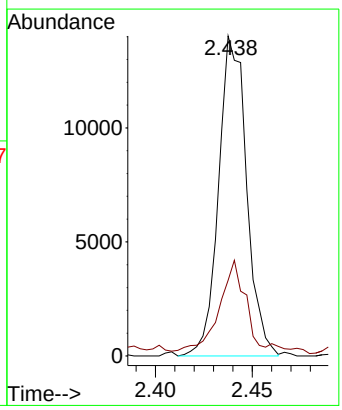


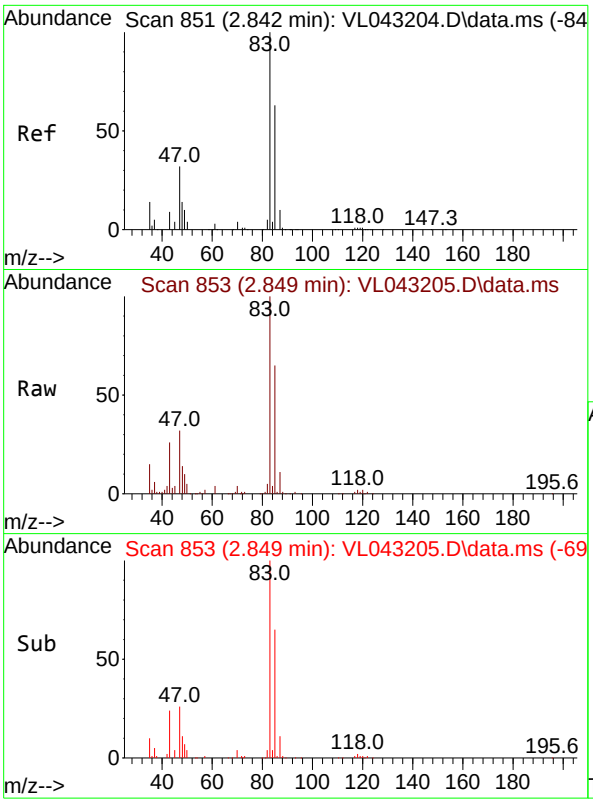


#28
Methyl tert-Butyl Ether
Concen: 2.090 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 73 Resp: 14101

Ion	Ratio	Lower	Upper
73	100		
57	32.5	19.8	29.8#



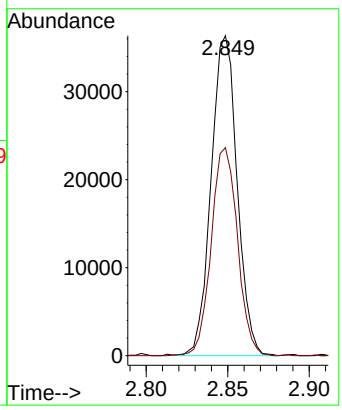


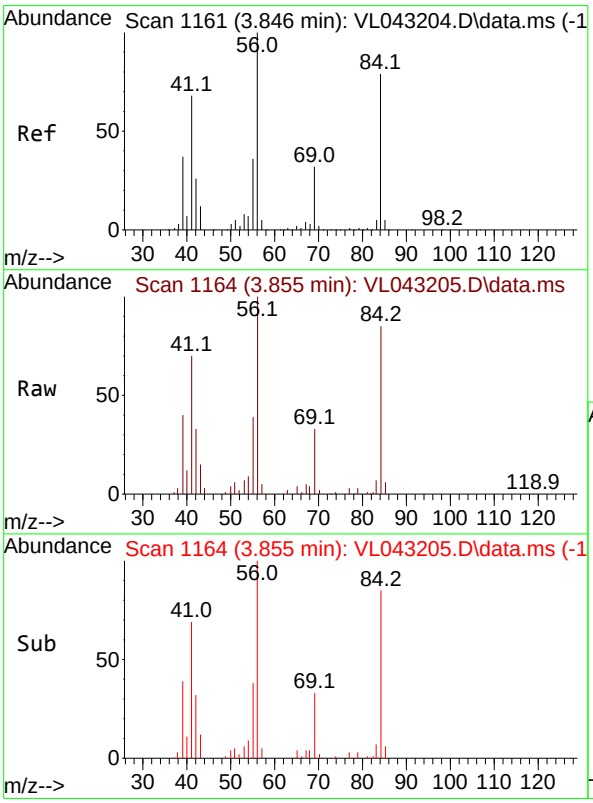
#29
Chloroform
Concen: 2.065 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 40355

Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.5	75.7

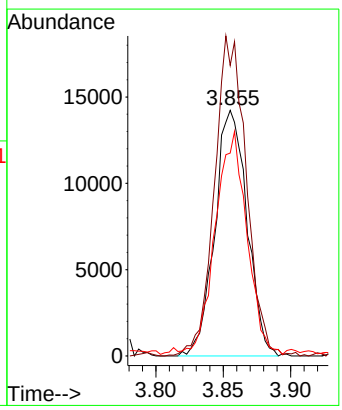


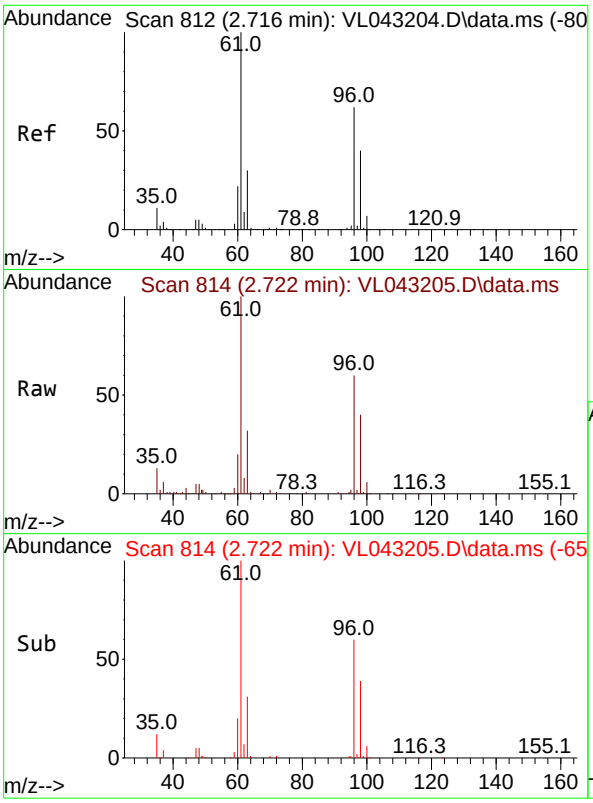


#30
Cyclohexane
Concen: 2.053 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 84 Resp: 23659

Ion	Ratio	Lower	Upper
84	100		
56	129.3	104.7	157.1
41	89.8	69.0	103.6



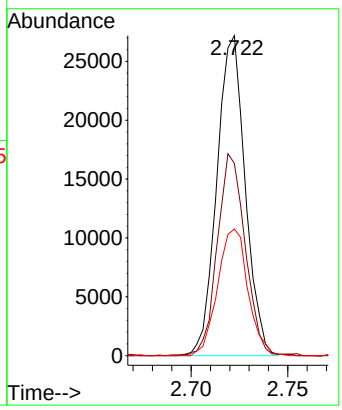


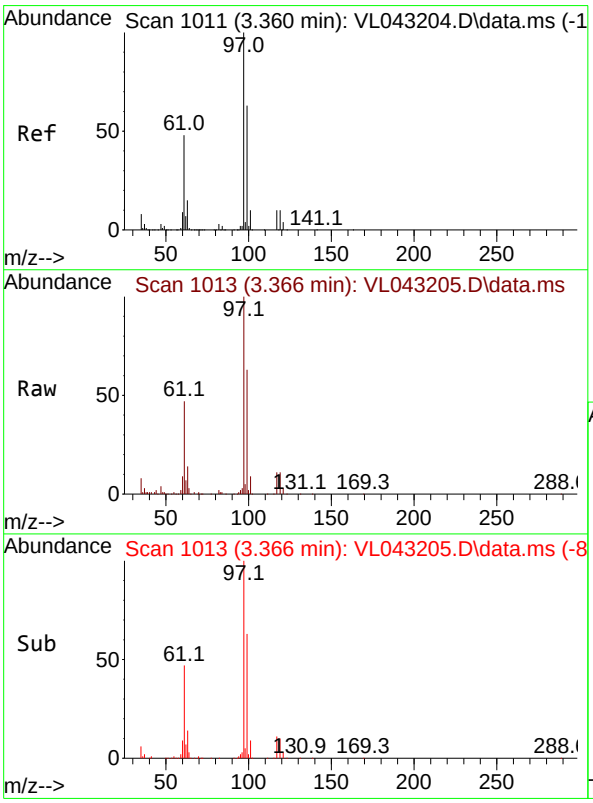
#31
cis-1,2-Dichloroethene
Concen: 2.024 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 61 Resp: 27663

Ion	Ratio	Lower	Upper
61	100		
96	59.9	49.3	73.9
98	39.6	32.1	48.1

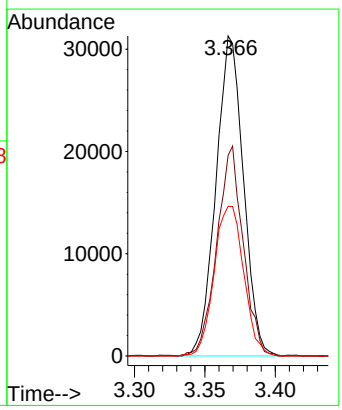


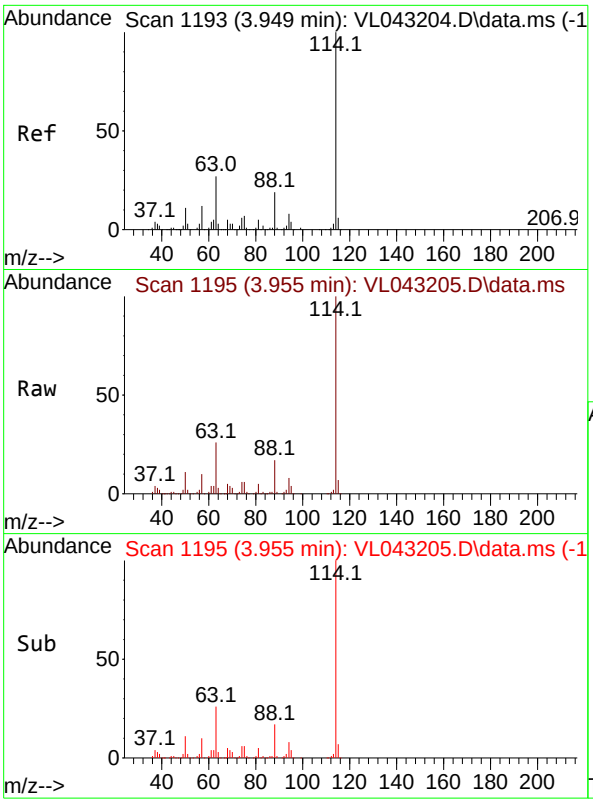


#32
1,1,1-Trichloroethane
Concen: 2.024 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 97 Resp: 42547

Ion	Ratio	Lower	Upper
97	100		
99	62.8	50.3	75.5
61	50.4	38.9	58.3



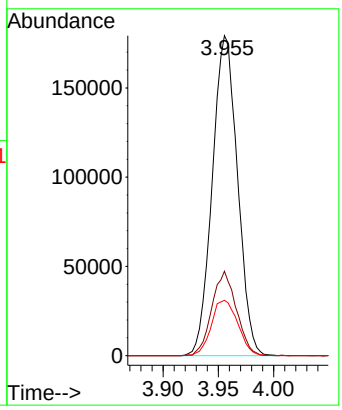


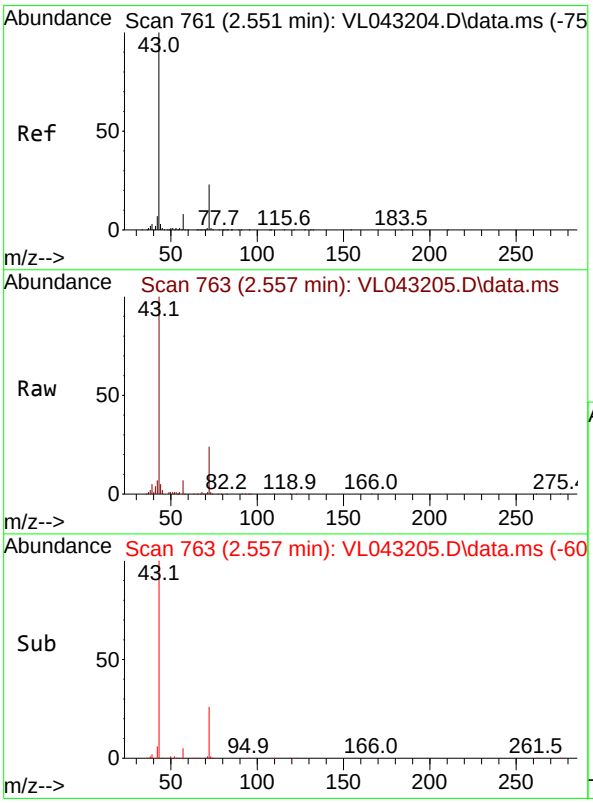
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:114 Resp: 284629

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.2	14.9	22.3

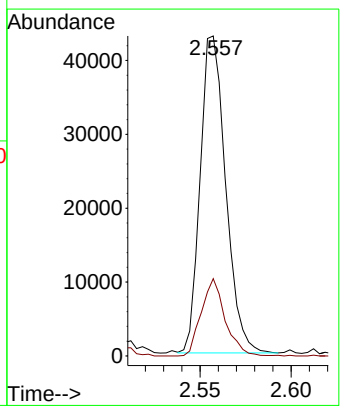


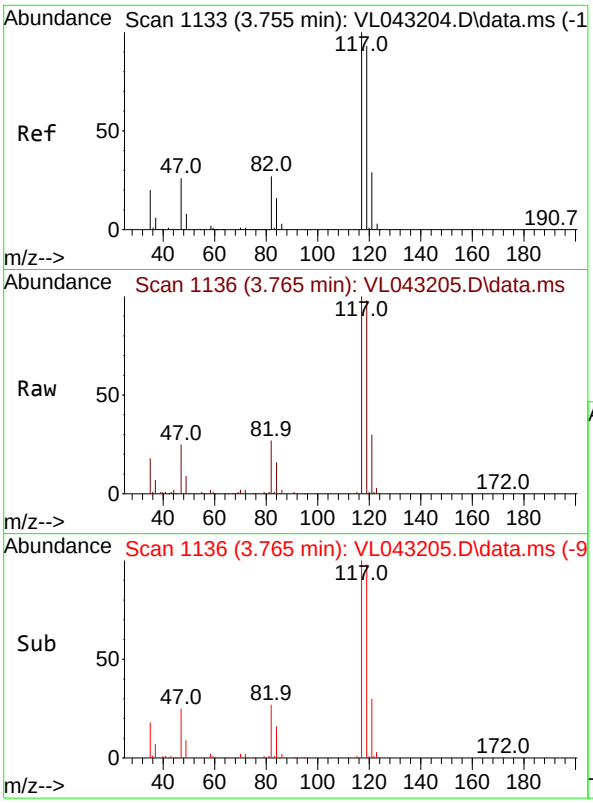


#34
2-Butanone
Concen: 2.085 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 41884

Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.1	27.1



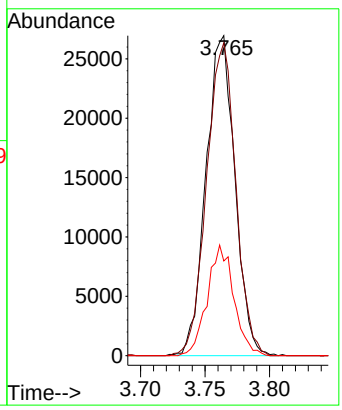


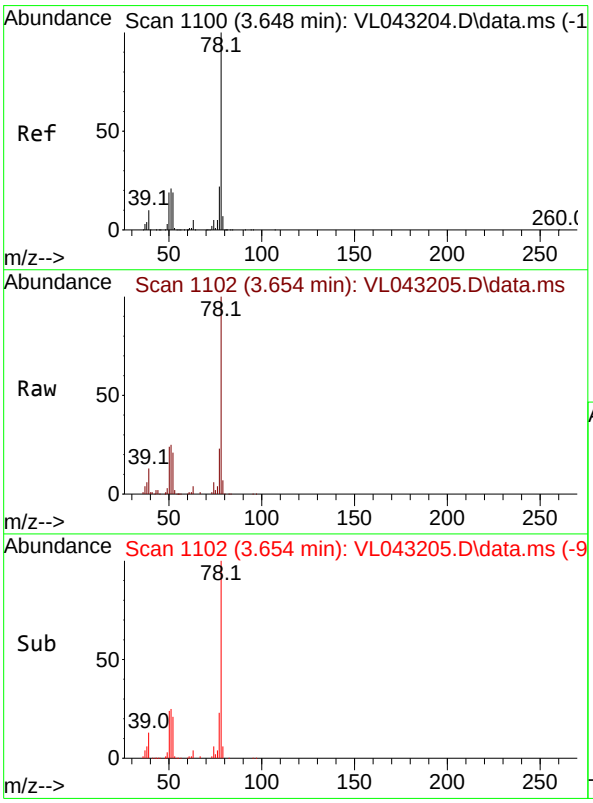
#35
Carbon Tetrachloride
Concen: 1.942 ppbv
RT: 3.765 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 41949

Ion	Ratio	Lower	Upper
117	100		
119	97.8	74.6	112.0
121	29.6	23.2	34.8

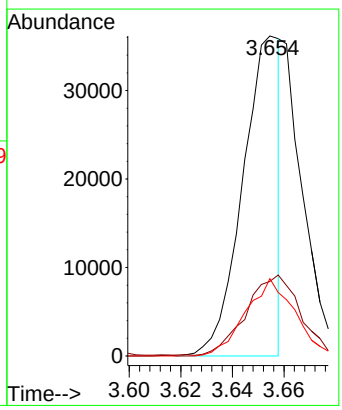


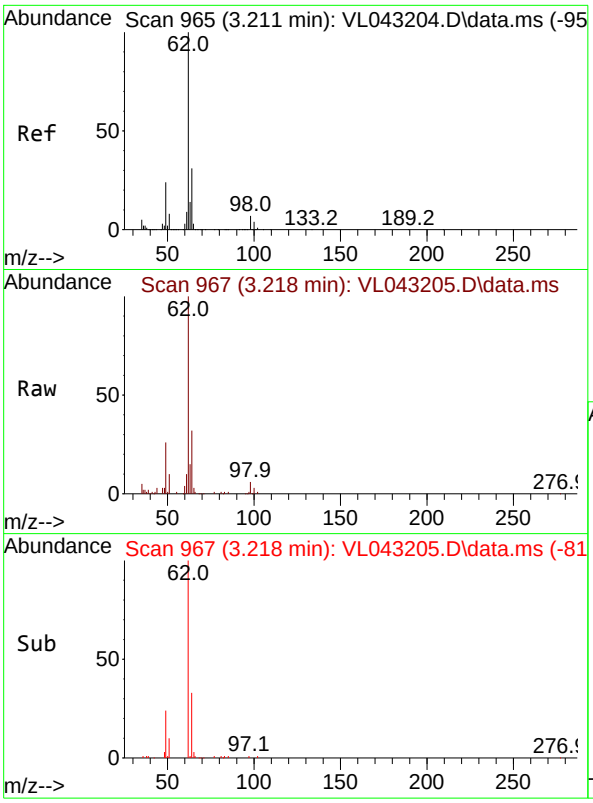


#36
Benzene
Concen: 1.334 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 78 Resp: 36362

Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.5	26.3
50	24.1	15.5	23.3#



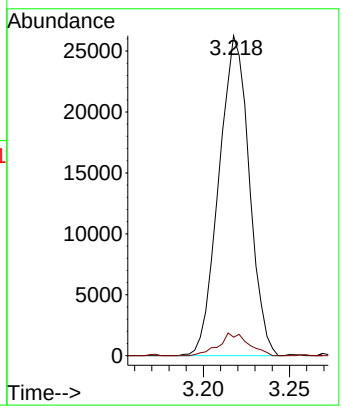


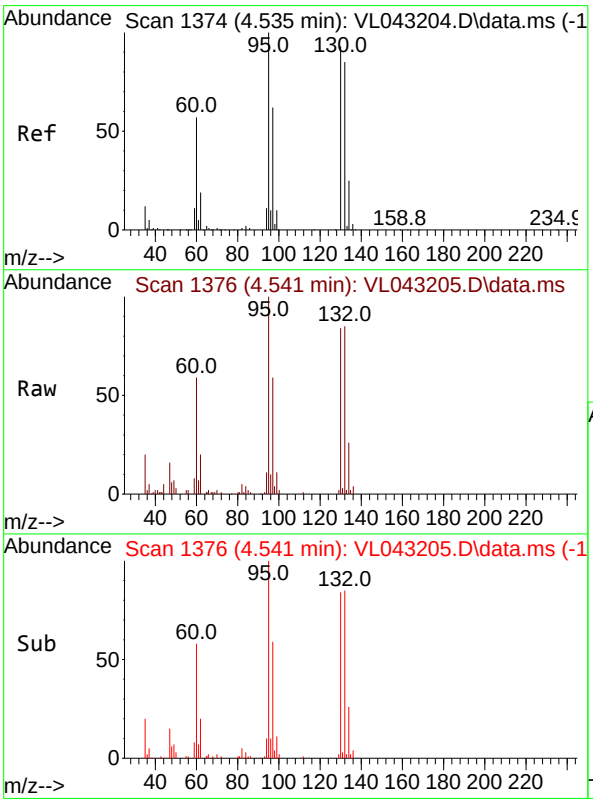
#37
1,2-Dichloroethane
Concen: 2.019 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 62 Resp: 32188

Ion	Ratio	Lower	Upper
62	100		
98	7.0	5.5	8.3

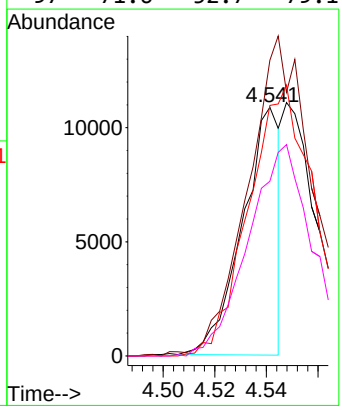


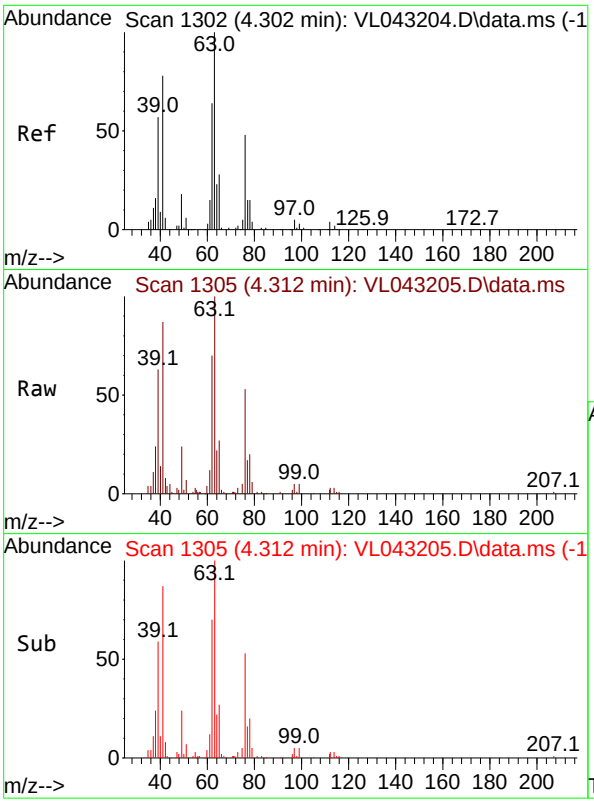


#38
Trichloroethene
Concen: 1.015 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:130 Resp: 10841

Ion	Ratio	Lower	Upper
130	100		
95	120.4	85.7	128.5
132	103.5	73.4	110.0
97	71.6	52.7	79.1



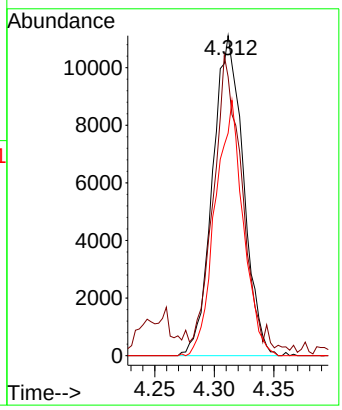


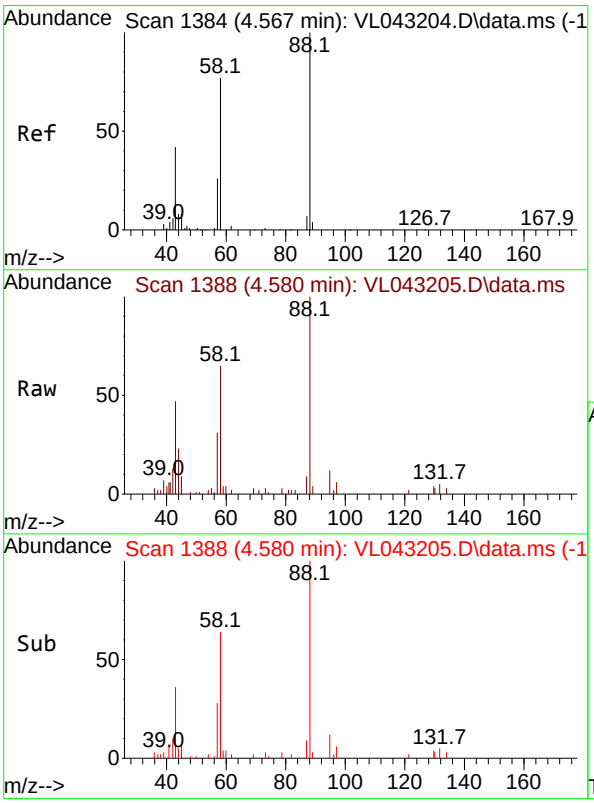
#39
1,2-Dichloropropane
Concen: 1.996 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 63 Resp: 19913

Ion	Ratio	Lower	Upper
63	100		
41	83.9	62.6	93.8
62	69.5	51.0	76.6

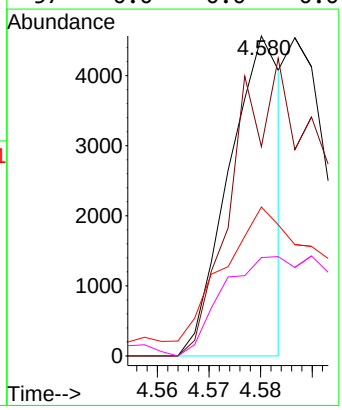


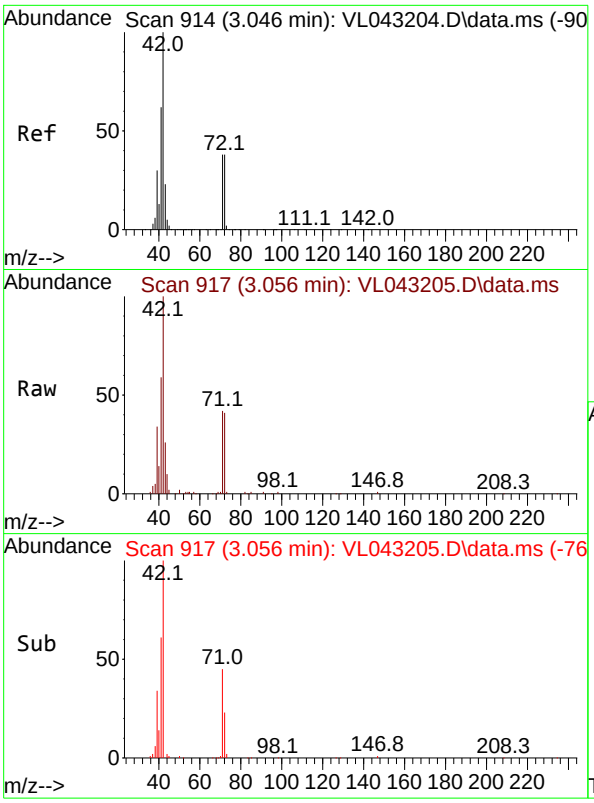


#40
1,4-Dioxane
Concen: 0.721 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 88 Resp: 3232

Ion	Ratio	Lower	Upper
88	100		
58	0.0	63.0	94.6#
43	0.0	32.5	48.7#
57	0.0	0.0	0.0



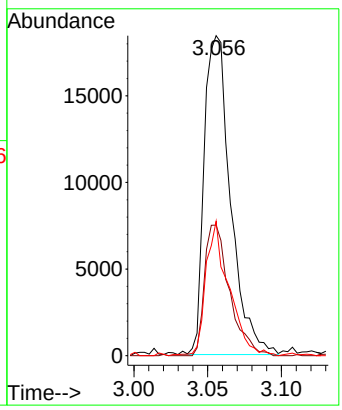


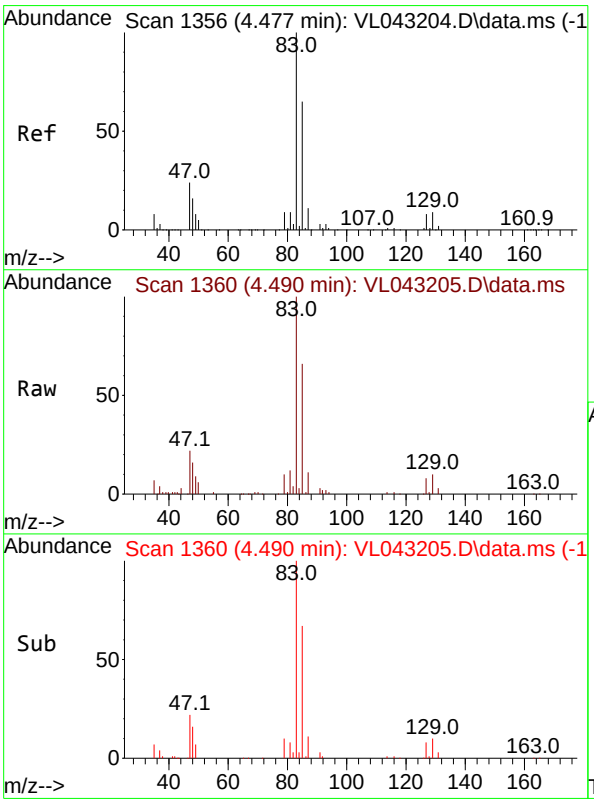
#41
Tetrahydrofuran
Concen: 2.065 ppbv
RT: 3.056 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 42 Resp: 22912

Ion	Ratio	Lower	Upper
42	100		
72	38.8	30.6	46.0
71	37.9	30.5	45.7

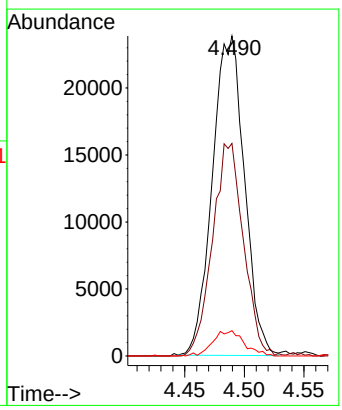


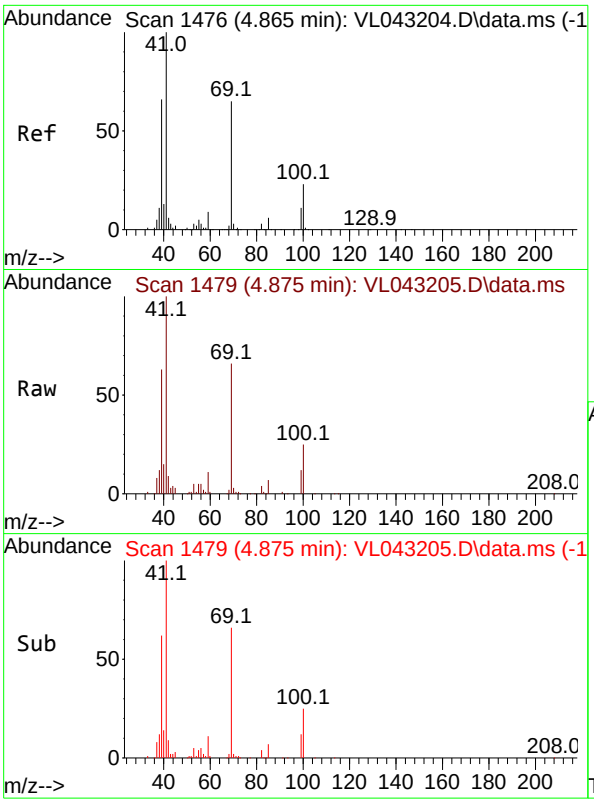


#42
Bromodichloromethane
Concen: 2.027 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 83 Resp: 44584

Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.7	77.5
127	7.9	6.3	9.5



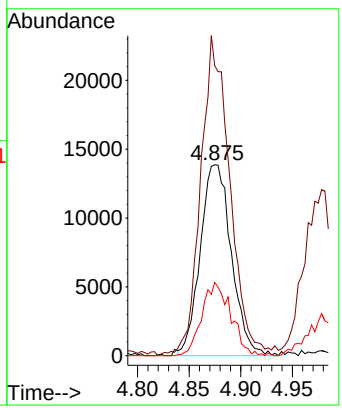


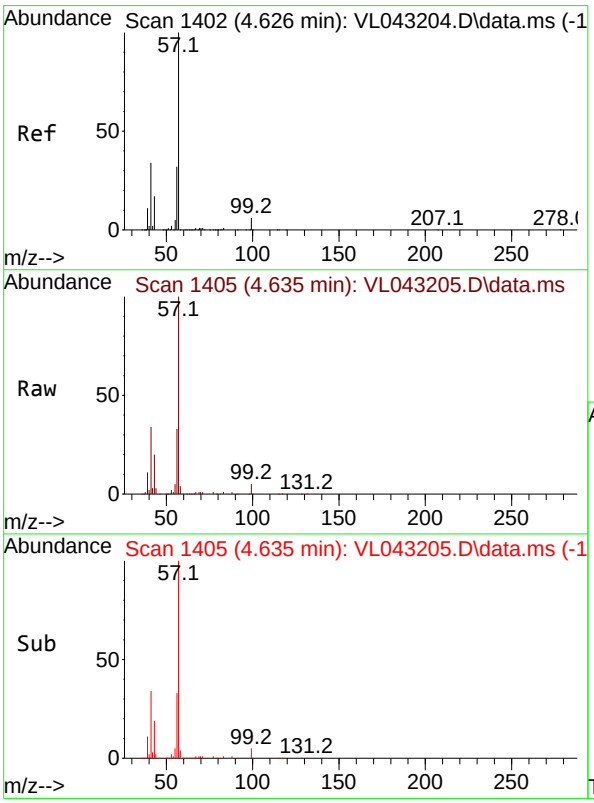
#43
Methyl Methacrylate
Concen: 2.009 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 69 Resp: 29071

Ion	Ratio	Lower	Upper
69	100		
41	157.2	126.7	190.1
100	36.0	28.6	43.0

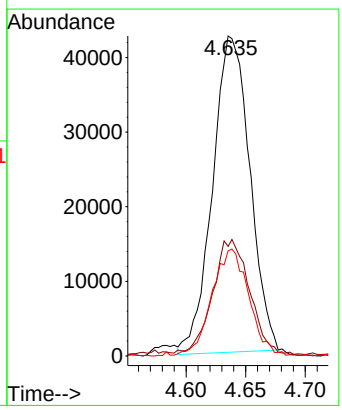


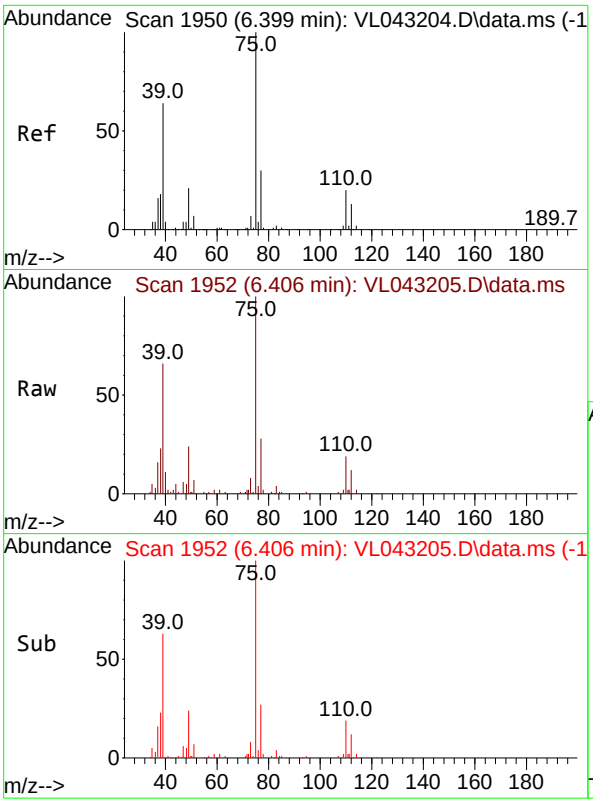


#44
2,2,4-Trimethylpentane
Concen: 1.971 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 57 Resp: 92261

Ion	Ratio	Lower	Upper
57	100		
41	37.8	28.0	42.0
56	33.9	25.6	38.4



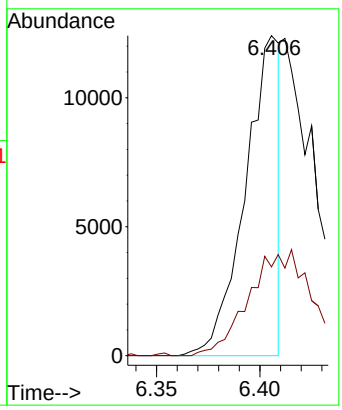


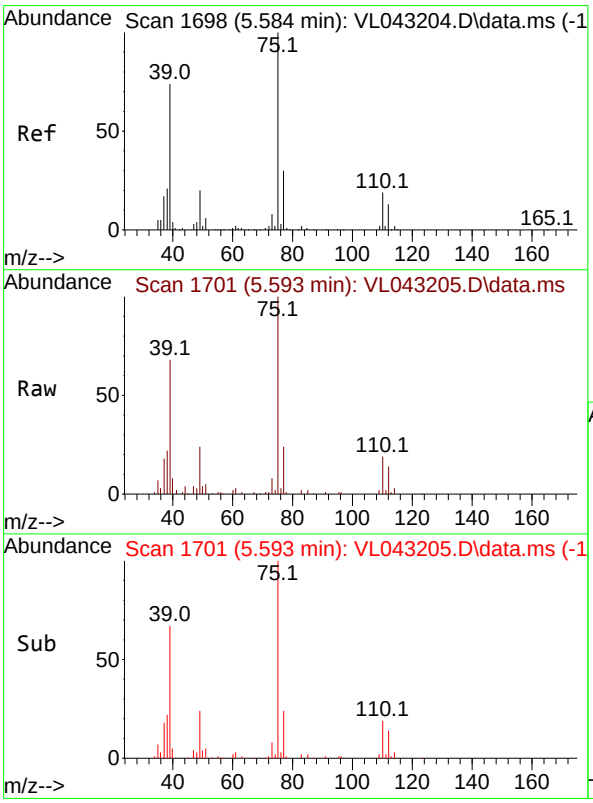
#45
t-1,3-Dichloropropene
Concen: 1.063 ppbv
RT: 6.406 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 75 Resp: 14338

Ion	Ratio	Lower	Upper
75	100		
77	27.8	24.3	36.5

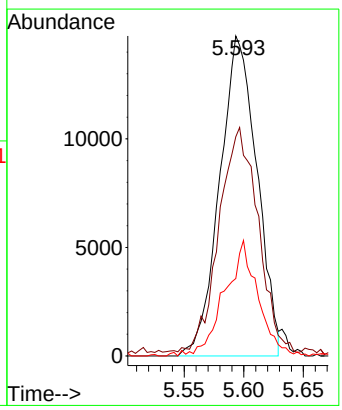


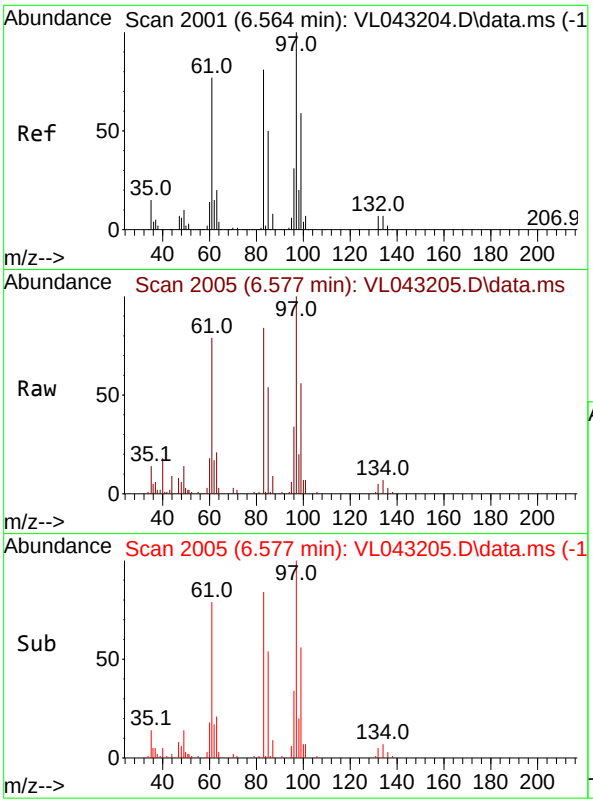


#46
cis-1,3-Dichloropropene
Concen: 2.020 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 75 Resp: 31986

Ion	Ratio	Lower	Upper
75	100		
39	67.2	59.1	88.7
77	24.2	24.2	36.2



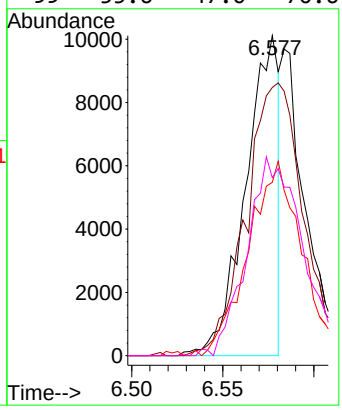


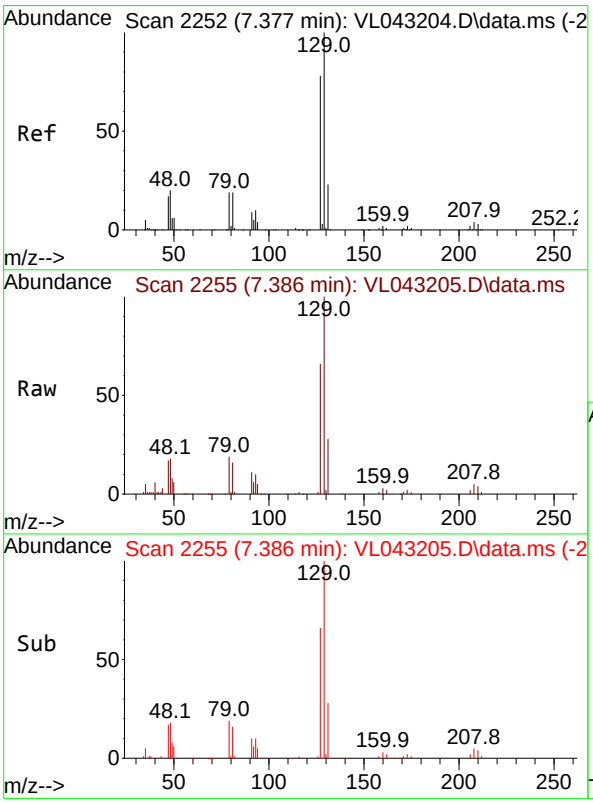
#47
1,1,2-Trichloroethane
Concen: 1.201 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 97 Resp: 12775

Ion	Ratio	Lower	Upper
97	100		
83	83.8	64.6	97.0
85	52.8	39.4	59.2
99	55.6	47.0	70.6

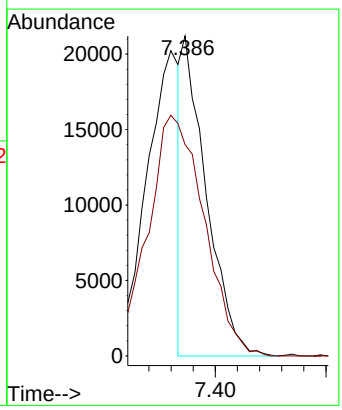


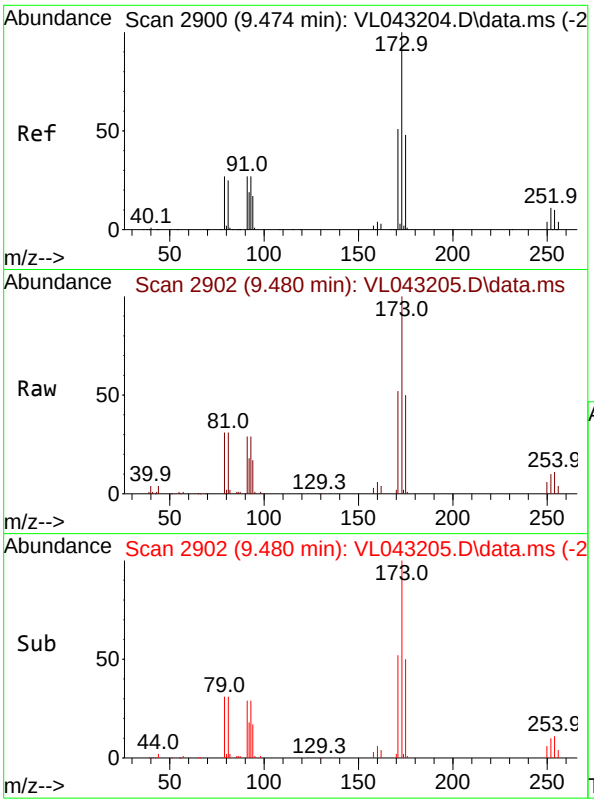


#48
Dibromochloromethane
Concen: 0.887 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:129 Resp: 16152

Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.3	117.9#



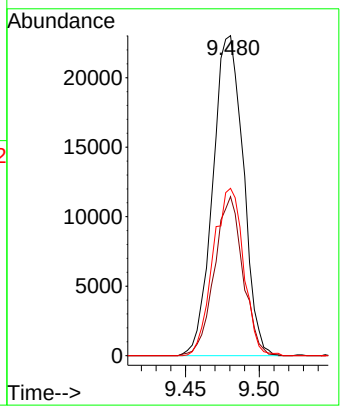


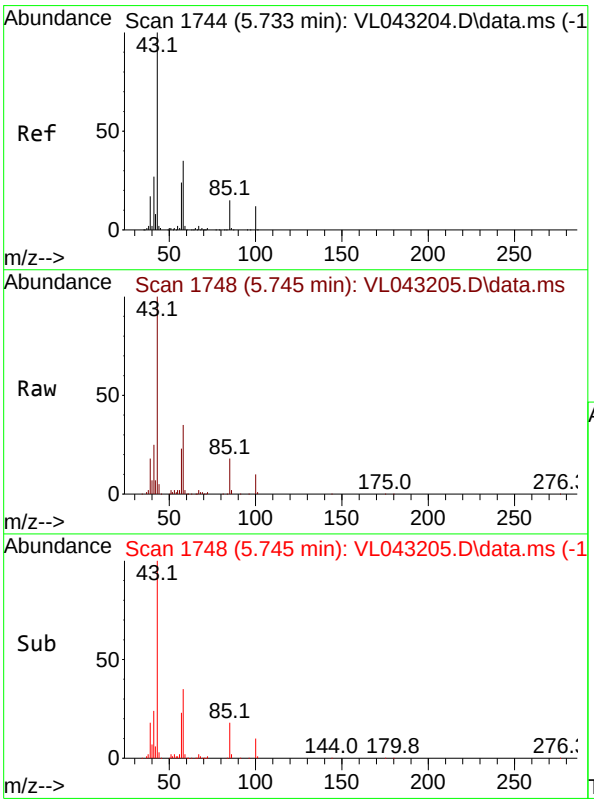
#49
Bromoform
Concen: 2.050 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:173 Resp: 33057

Ion	Ratio	Lower	Upper
173	100		
175	46.6	38.6	58.0
171	52.4	40.6	61.0

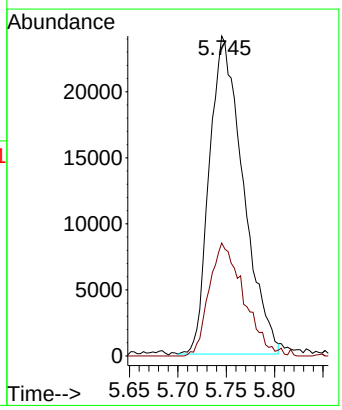


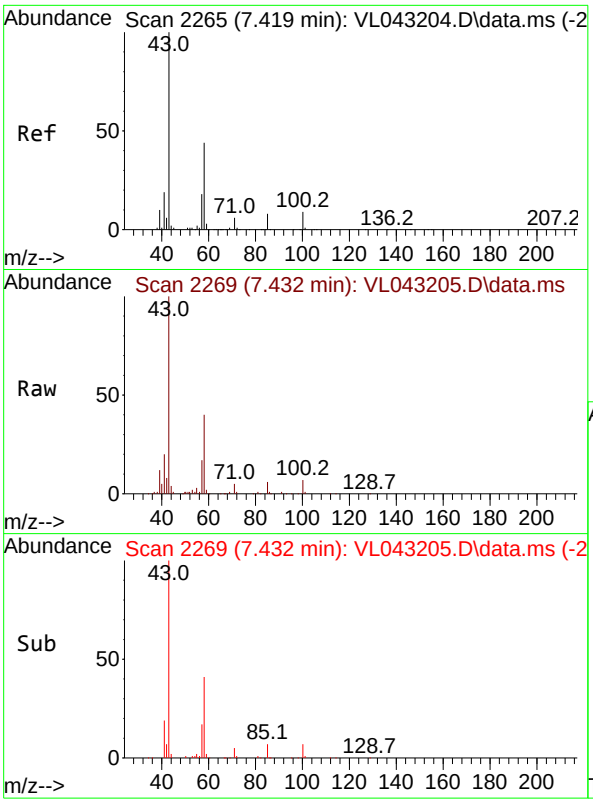


#50
4-Methyl-2-Pentanone
Concen: 2.066 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 43 Resp: 58461

Ion	Ratio	Lower	Upper
43	100		
58	36.7	28.4	42.6



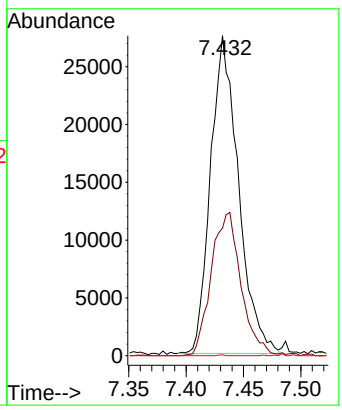


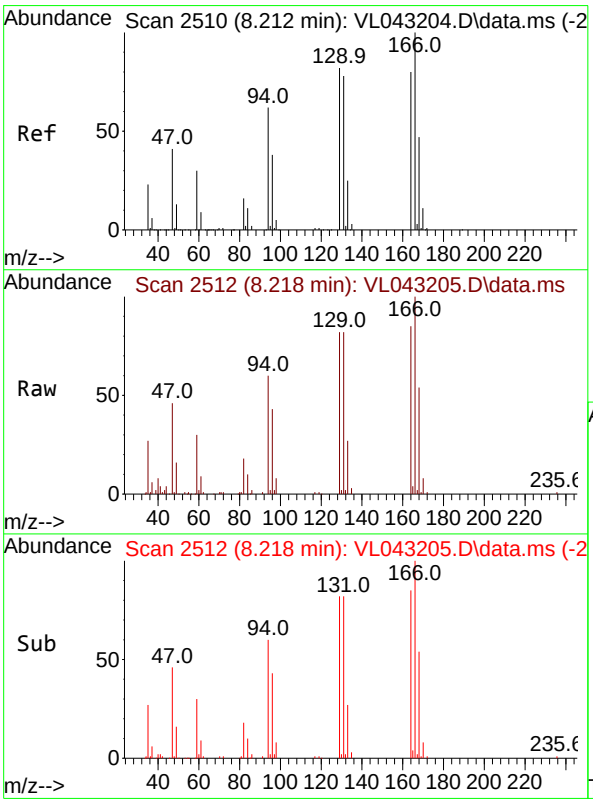
#51
2-Hexanone
Concen: 2.113 ppbv
RT: 7.432 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 46444

Ion	Ratio	Lower	Upper
43	100		
58	48.4	38.4	57.6
98	0.2	0.0	0.0#

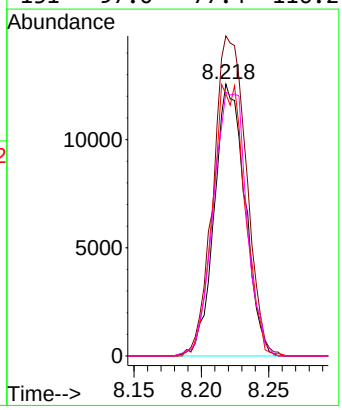


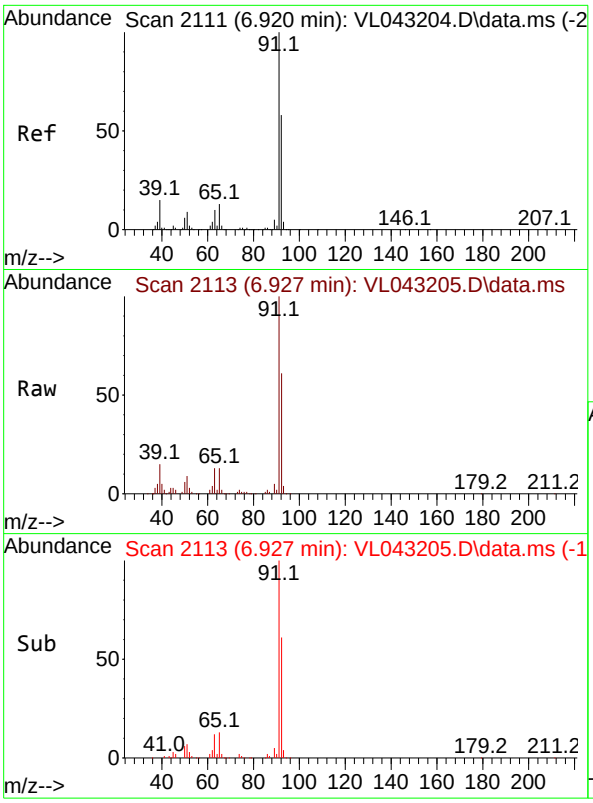


#52
Tetrachloroethene
Concen: 1.958 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:164 Resp: 19856

Ion	Ratio	Lower	Upper
164	100		
166	117.2	99.4	149.2
129	96.5	81.8	122.8
131	97.0	77.4	116.2



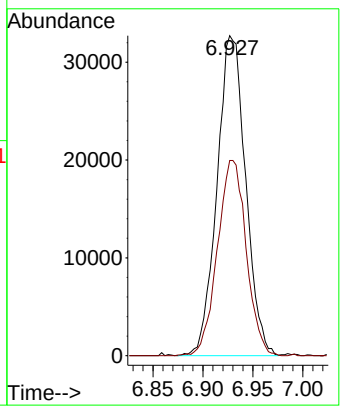


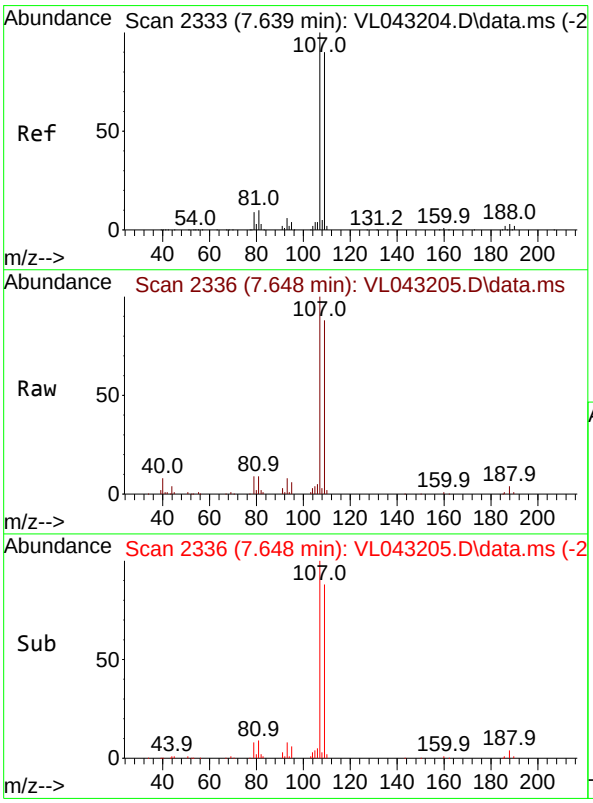
#53
Toluene
Concen: 2.008 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 65238

Ion	Ratio	Lower	Upper
91	100		
92	61.5	47.4	71.0

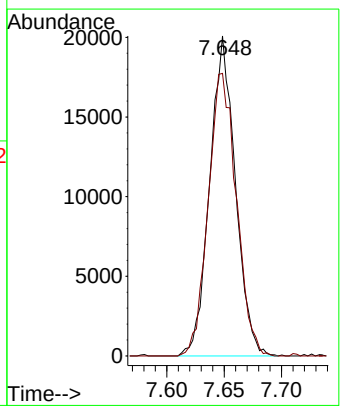


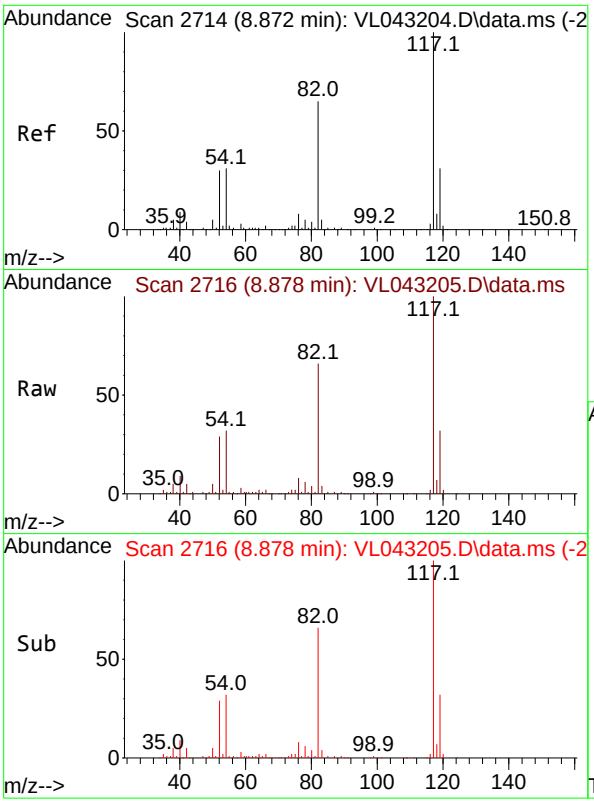


#54
1,2-Dibromoethane
Concen: 2.007 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:107 Resp: 31266

Ion	Ratio	Lower	Upper
107	100		
109	88.3	72.1	108.1



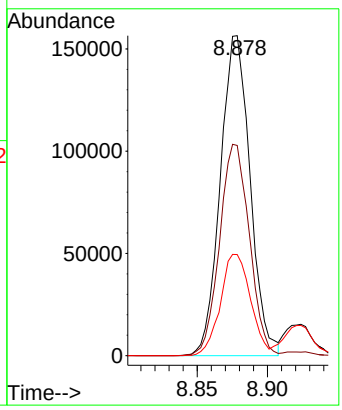


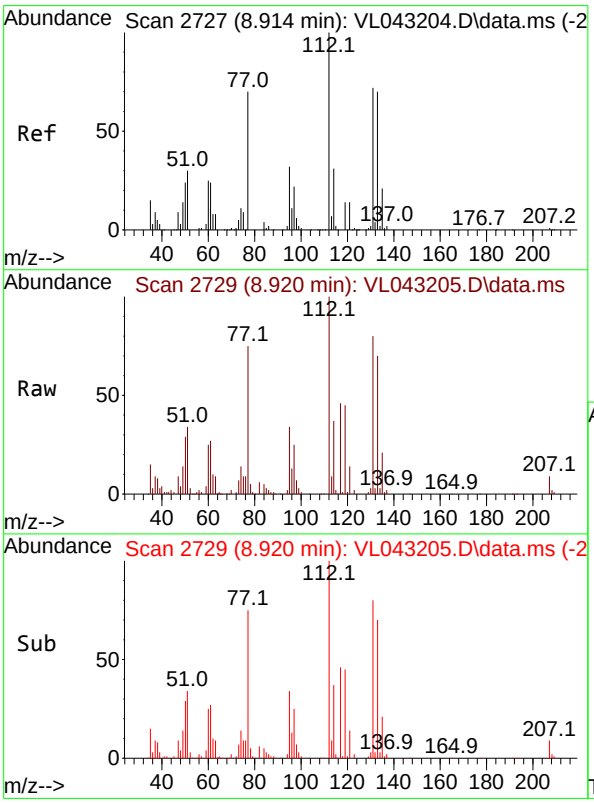
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:117 Resp: 230646

Ion	Ratio	Lower	Upper
117	100		
82	67.2	56.1	84.1
119	32.0	25.0	37.6

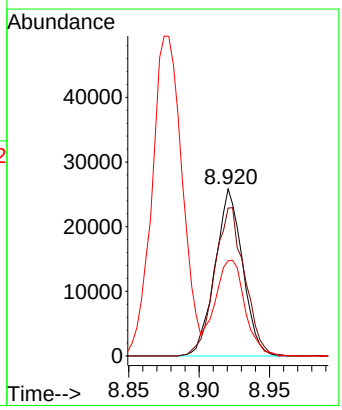


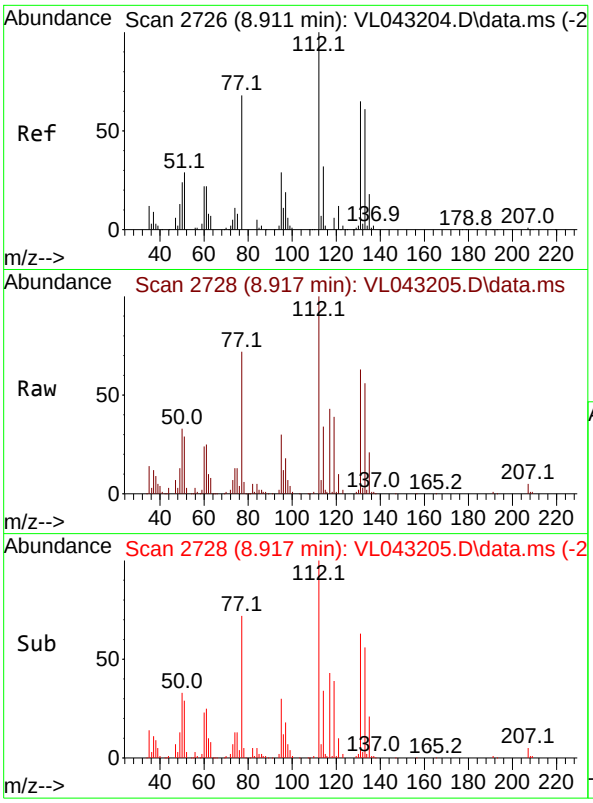


#56
1,1,1,2-Tetrachloroethane
Concen: 2.071 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:131 Resp: 35099

Ion	Ratio	Lower	Upper
131	100		
133	97.4	77.4	116.2
119	60.1	49.1	73.7



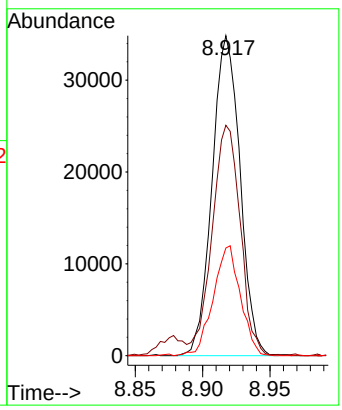


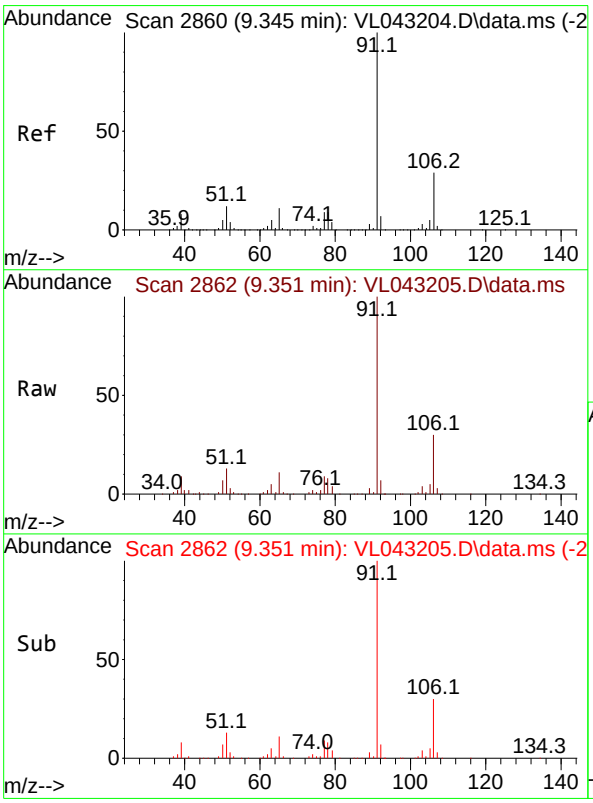
#57
Chlorobenzene
Concen: 2.121 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:112 Resp: 50228

Ion	Ratio	Lower	Upper
112	100		
77	71.6	55.5	83.3
114	33.6	29.1	35.5

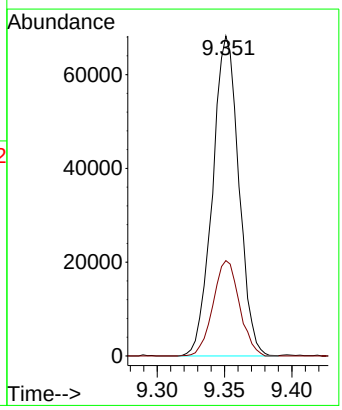


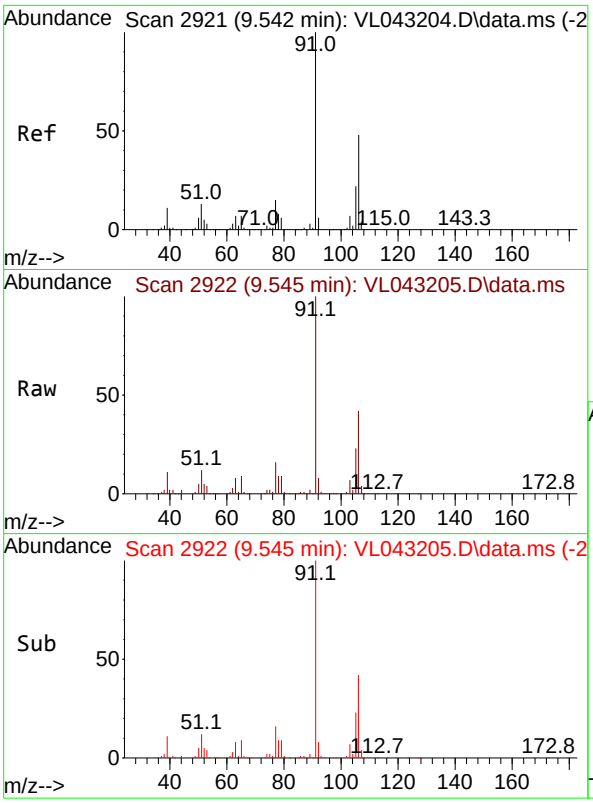


#58
Ethyl Benzene
Concen: 2.087 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 92649

Ion	Ratio	Lower	Upper
91	100		
106	29.8	22.8	34.2



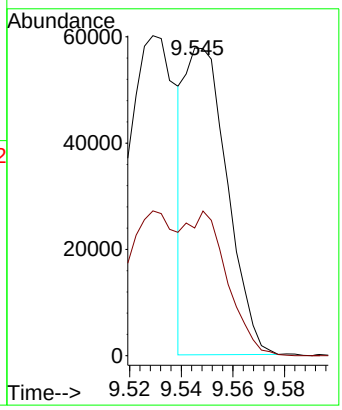


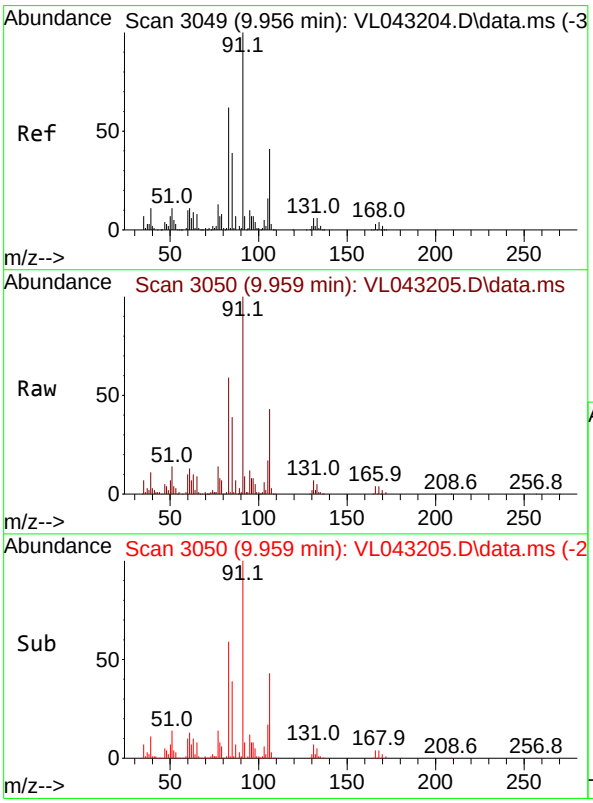
#59
m/p-Xylene
Concen: 1.838 ppbv
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 65660

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

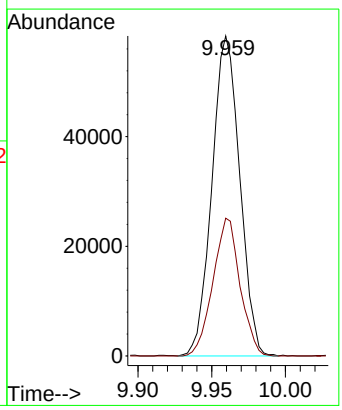


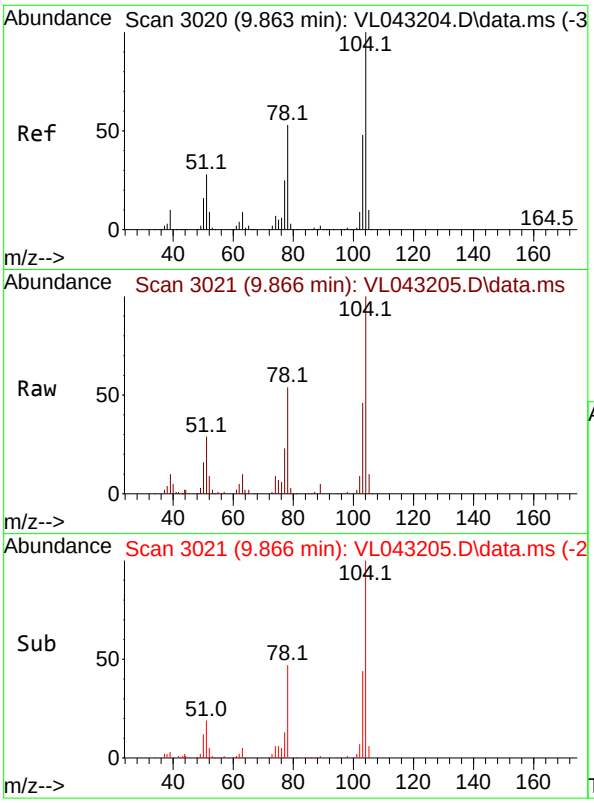


#60
o-Xylene
Concen: 2.153 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 76540

Ion	Ratio	Lower	Upper
91	100		
106	41.9	20.9	62.8



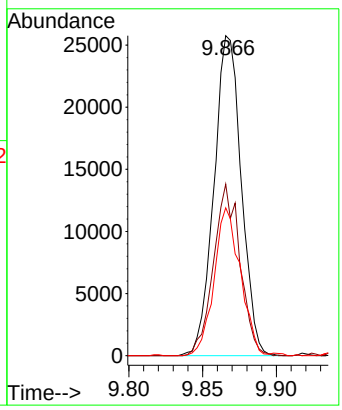


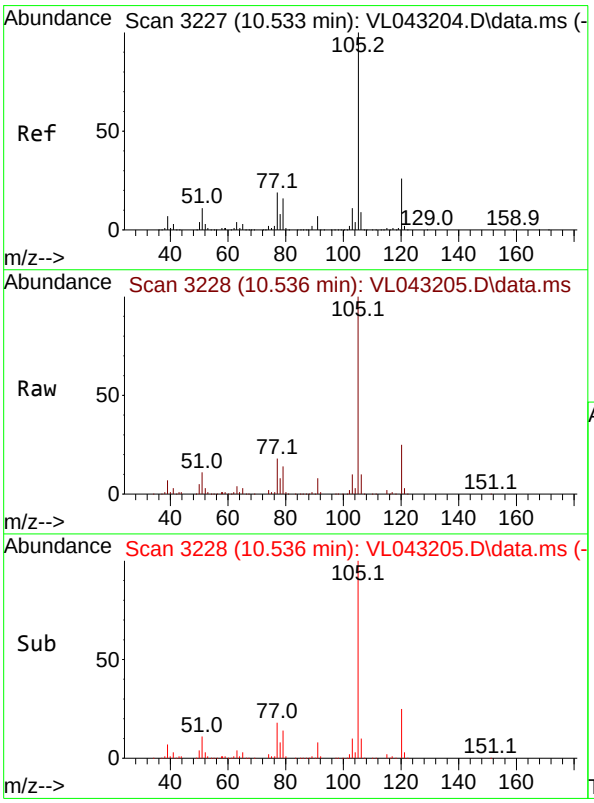
#61
Styrene
Concen: 2.133 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:104 Resp: 33188

Ion	Ratio	Lower	Upper
104	100		
78	52.1	42.1	63.1
103	44.9	37.2	55.8

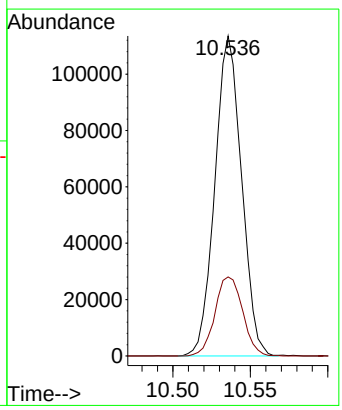


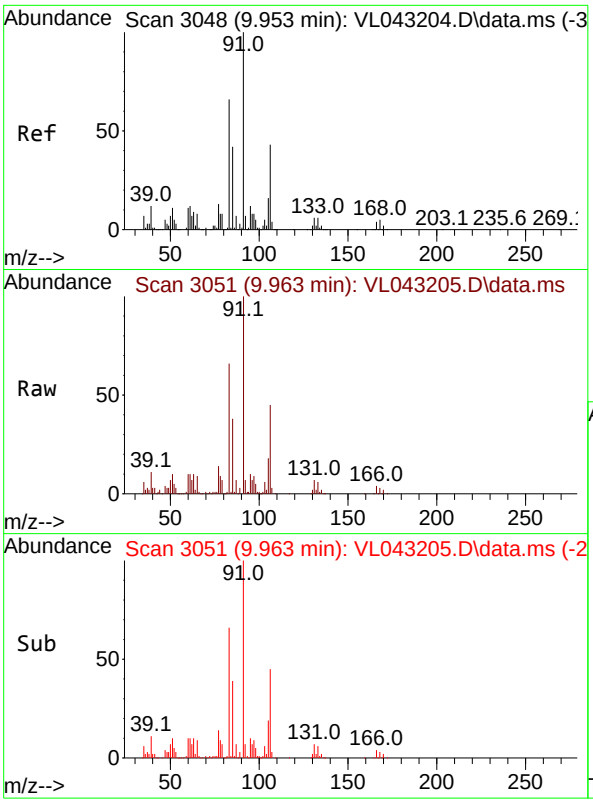


#62
Isopropylbenzene
Concen: 2.136 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 135853

Ion	Ratio	Lower	Upper
105	100		
120	25.6	19.8	29.8



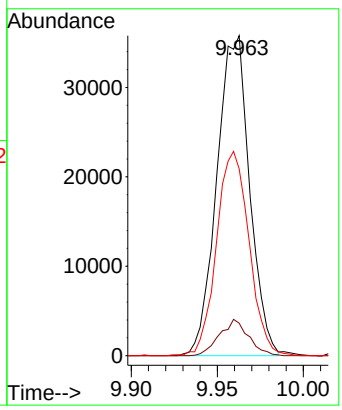


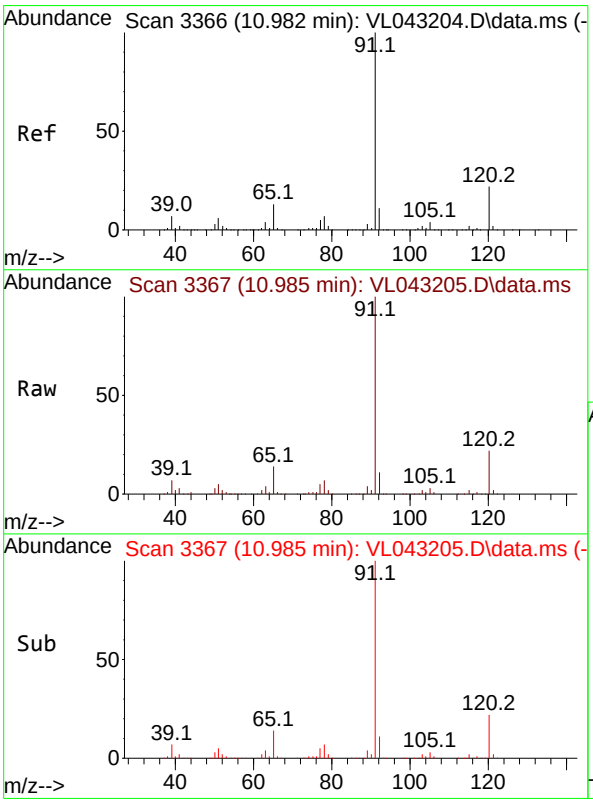
#63
1,1,2,2-Tetrachloroethane
Concen: 2.102 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 83 Resp: 47439

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.3
85	63.4	31.9	95.9

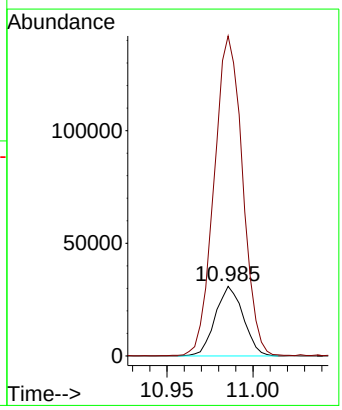


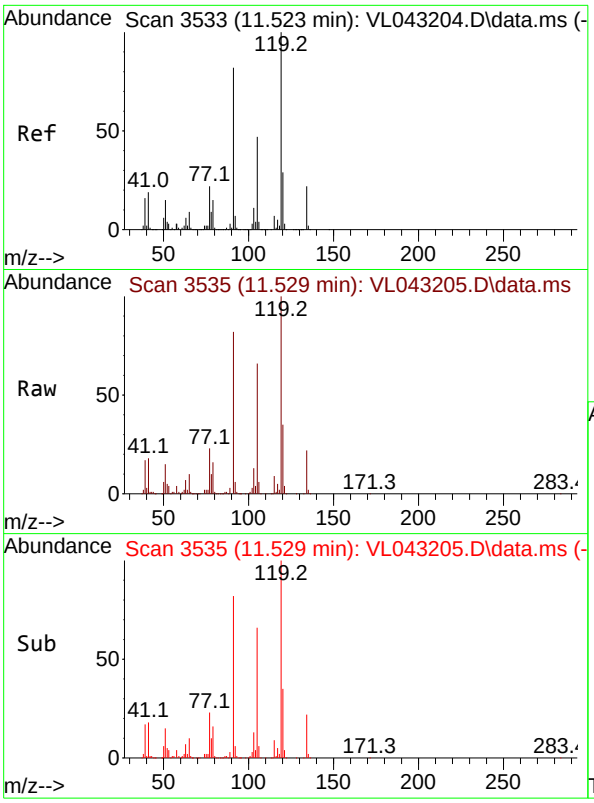


#64
n-propylbenzene
Concen: 2.136 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:120 Resp: 34915

Ion	Ratio	Lower	Upper
120	100		
91	467.6	377.1	565.7



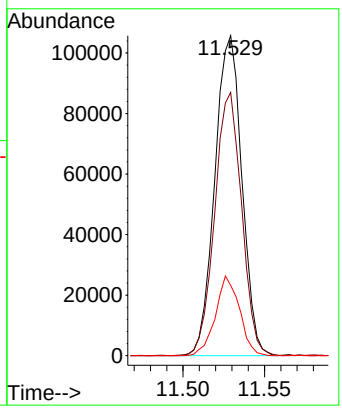


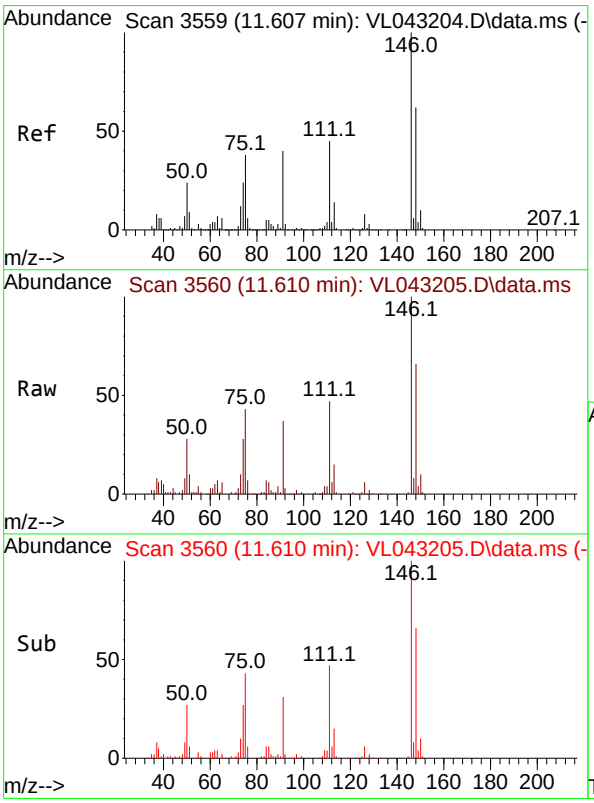
#65
tert-Butylbenzene
Concen: 2.149 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:119 Resp: 122064

Ion	Ratio	Lower	Upper
119	100		
91	82.0	65.3	97.9
134	22.1	17.0	25.4

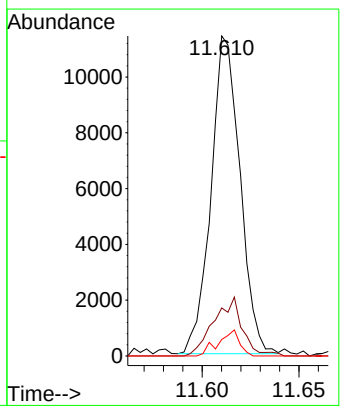


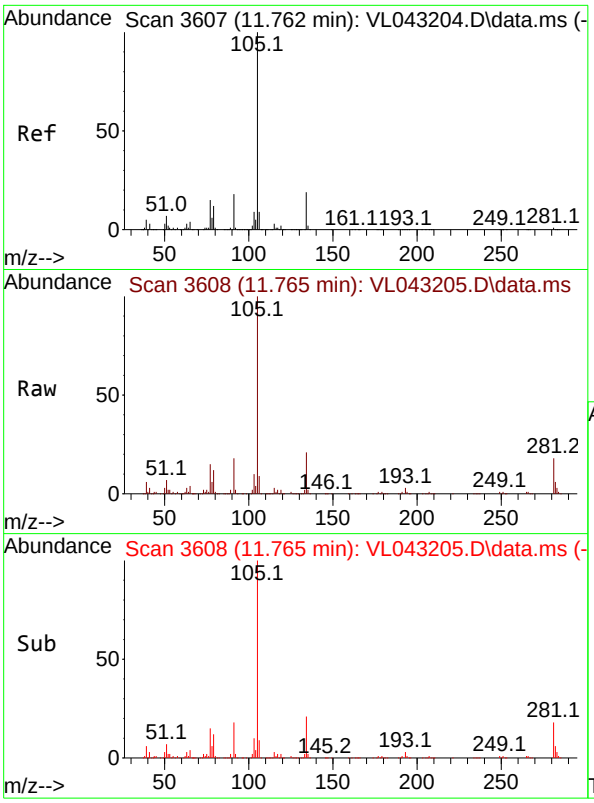


#66
Benzyl Chloride
Concen: 2.059 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 11870

Ion	Ratio	Lower	Upper
91	100		
126	18.3	14.4	21.6
128	5.9	4.6	6.8



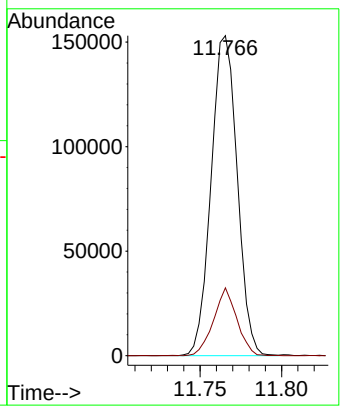


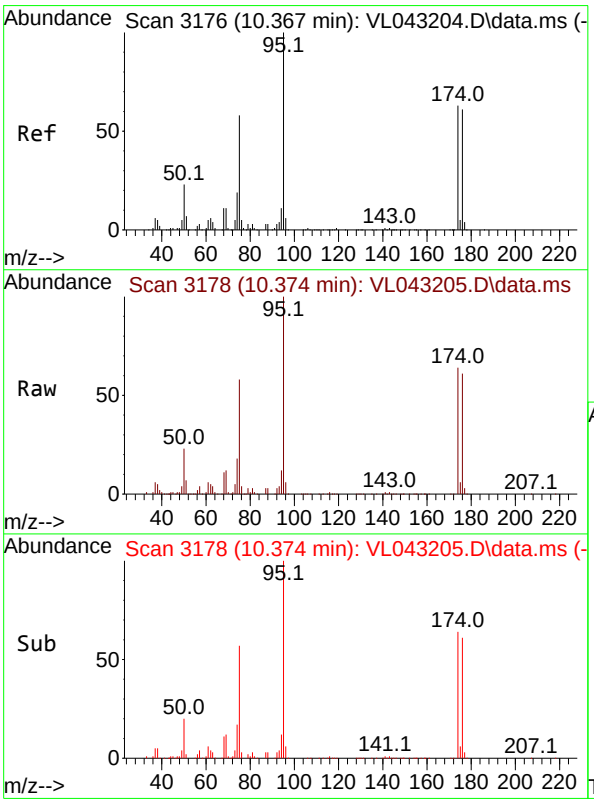
#67
sec-Butylbenzene
Concen: 2.151 ppbv
RT: 11.765 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 170529

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.0	22.6

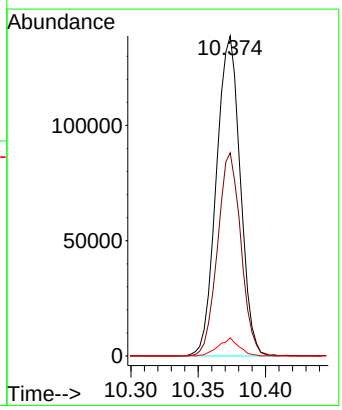


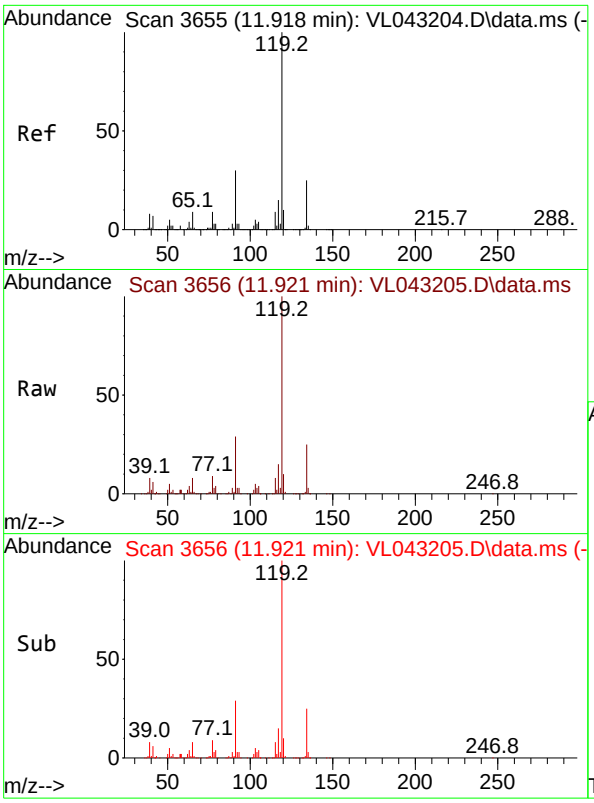


#68
1-Bromo-4-Fluorobenzene
Concen: 10.115 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 95 Resp: 171009

Ion	Ratio	Lower	Upper
95	100		
174	62.1	50.2	75.2
175	4.9	4.1	6.1



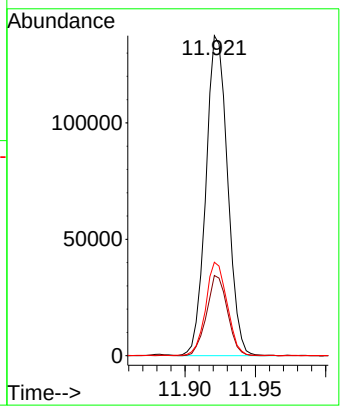


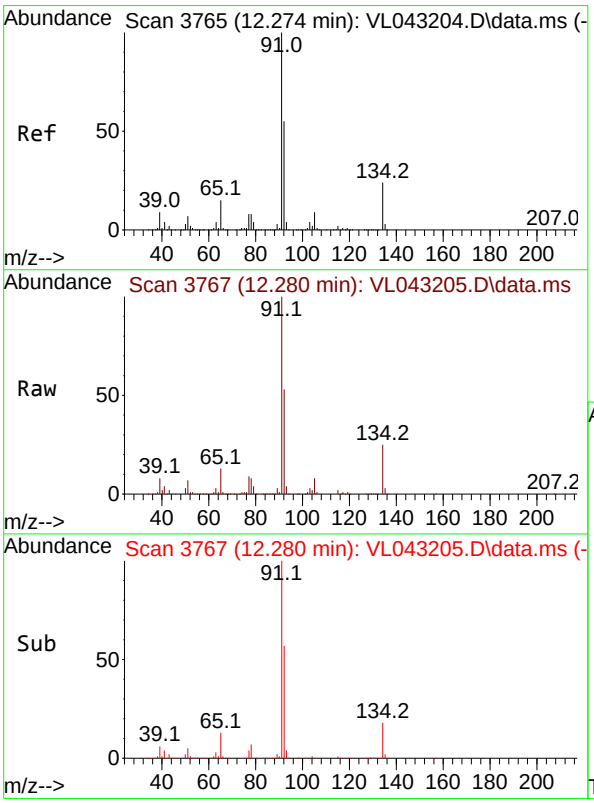
#69
p-Isopropyltoluene
Concen: 2.195 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:119 Resp: 147482

Ion	Ratio	Lower	Upper
119	100		
134	24.2	20.2	30.2
91	29.1	23.8	35.8

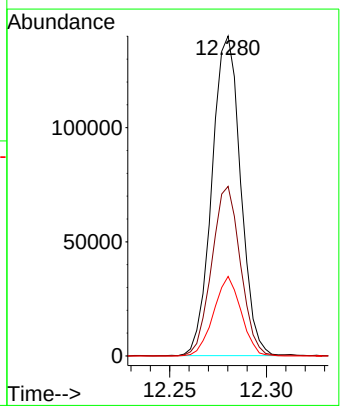


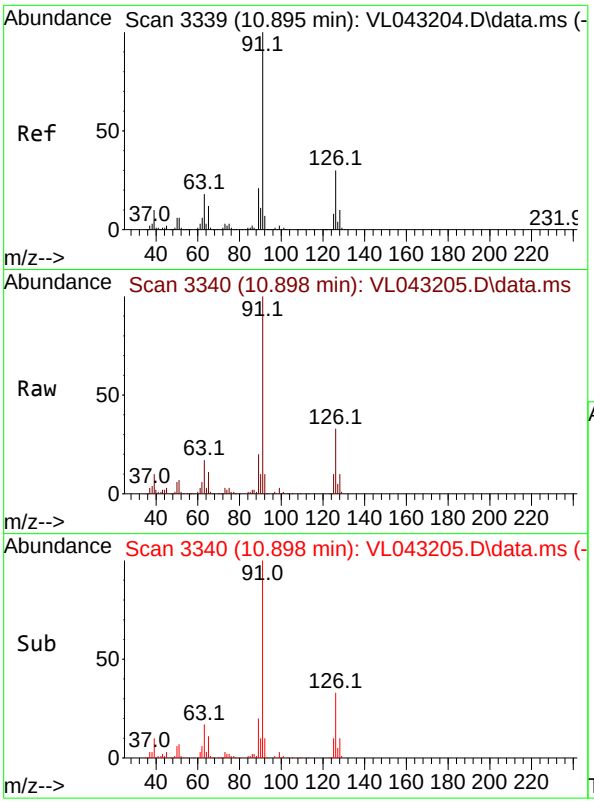


#70
n-Butylbenzene
Concen: 2.212 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion: 91 Resp: 144148

Ion	Ratio	Lower	Upper
91	100		
92	53.3	43.5	65.3
134	23.8	19.0	28.6



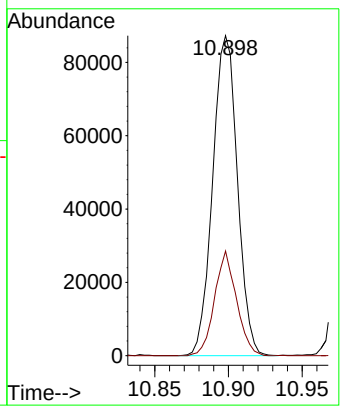


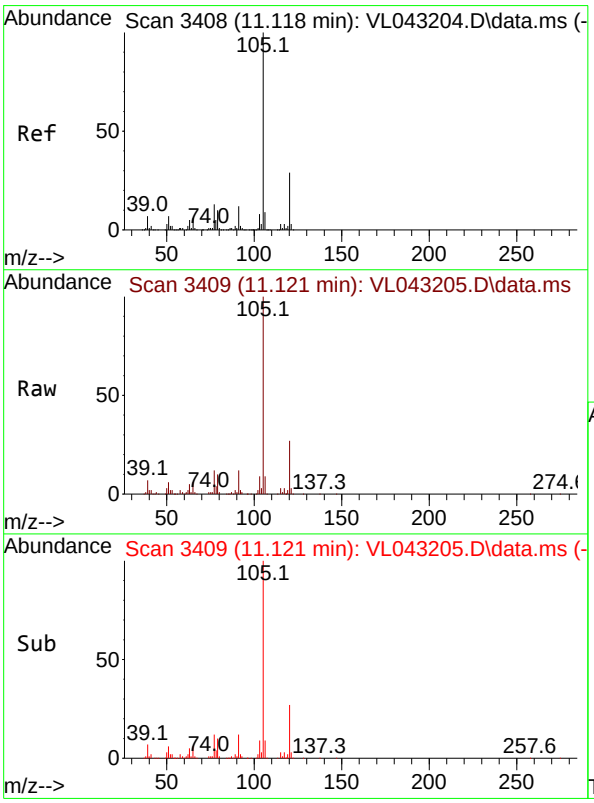
#71
2-Chlorotoluene
Concen: 2.085 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 101951

Ion	Ratio	Lower	Upper
91	100		
126	29.0	11.7	46.7

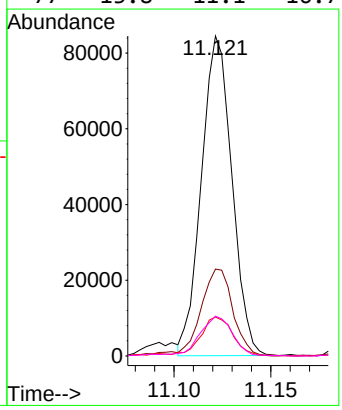


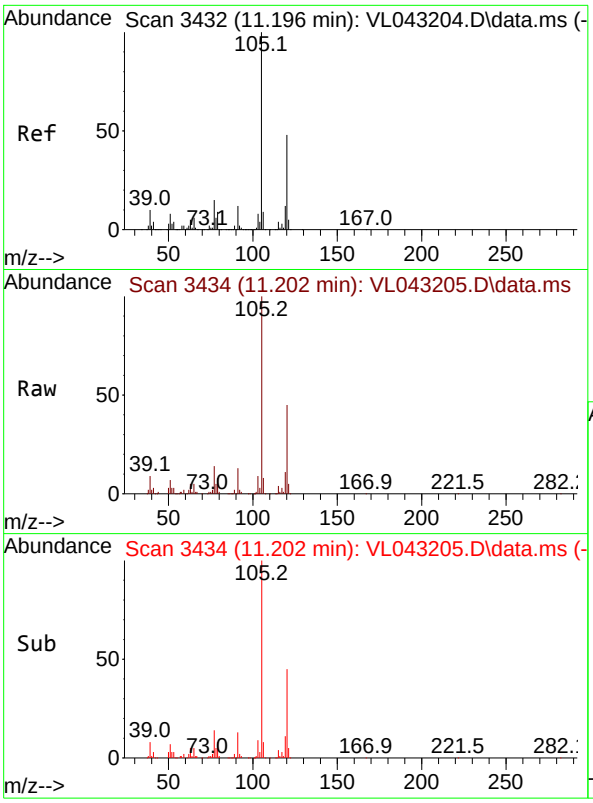


#72
4-Ethyltoluene
Concen: 2.140 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 92654

Ion	Ratio	Lower	Upper
105	100		
120	29.1	23.8	35.8
91	13.7	10.3	15.5
77	13.8	11.1	16.7



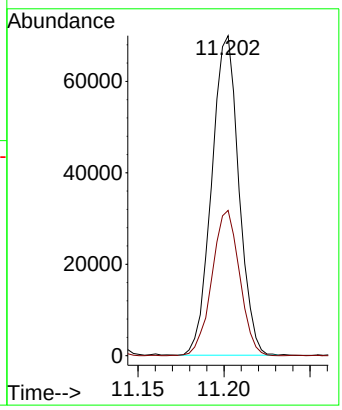


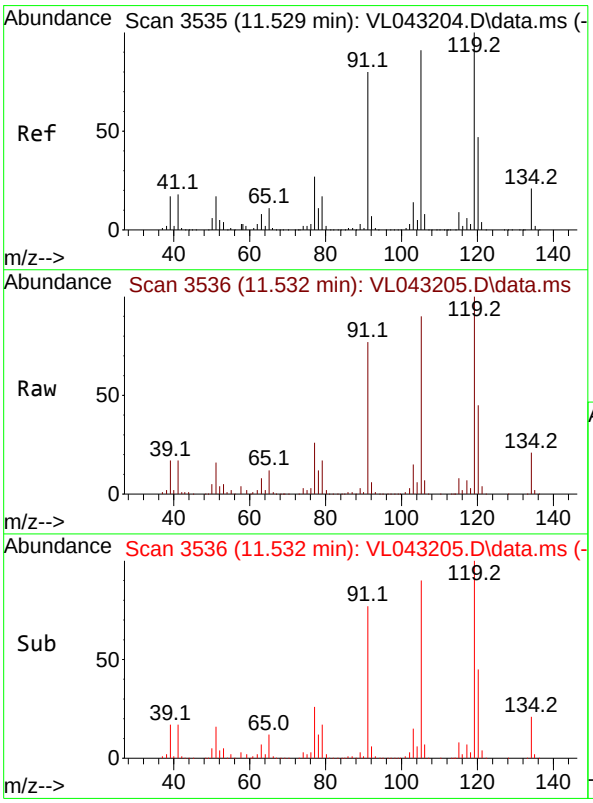
#73
1,3,5-Trimethylbenzene
Concen: 2.110 ppbv
RT: 11.202 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:105 Resp: 76655

Ion	Ratio	Lower	Upper
105	100		
120	45.5	38.6	57.8

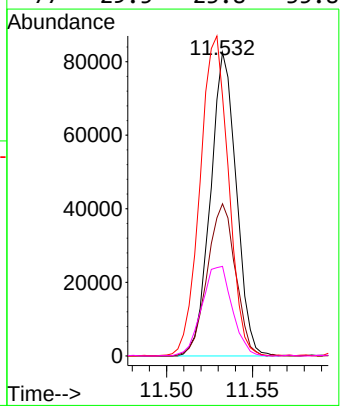


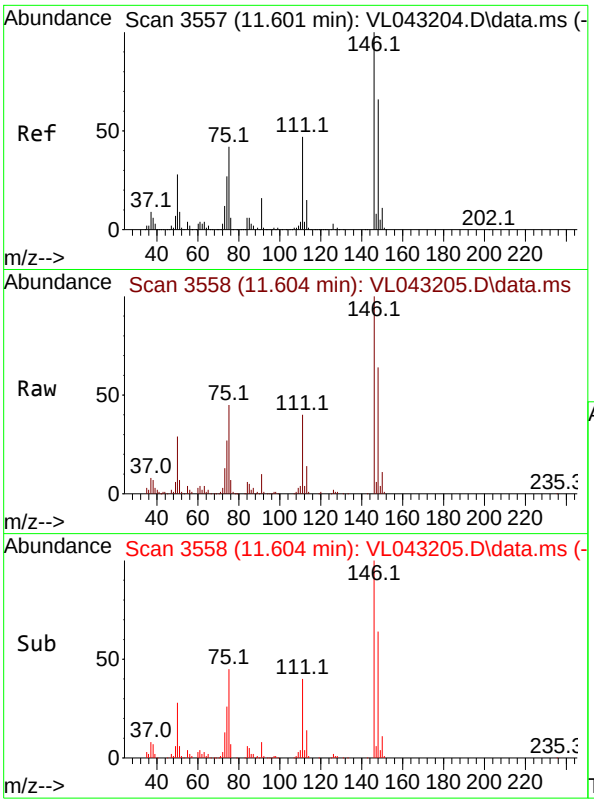


#74
1,2,4-Trimethylbenzene
Concen: 2.176 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:105 Resp: 86286

Ion	Ratio	Lower	Upper
105	100		
120	50.0	41.7	62.5
91	85.2	70.0	105.0
77	29.5	23.8	35.8



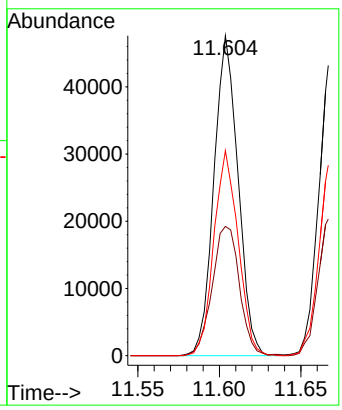


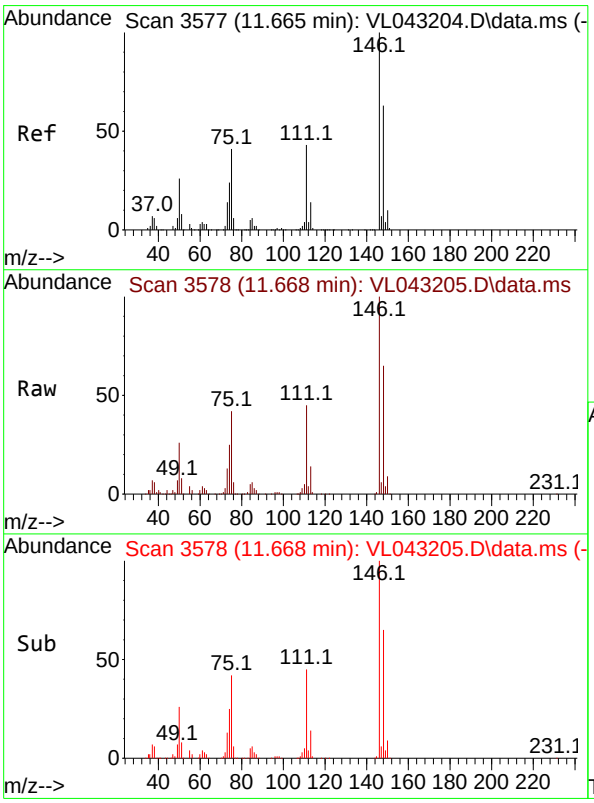
#75
1,3-Dichlorobenzene
Concen: 2.116 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 48961

Ion	Ratio	Lower	Upper
146	100		
111	45.7	23.4	70.3
148	64.6	31.6	95.0

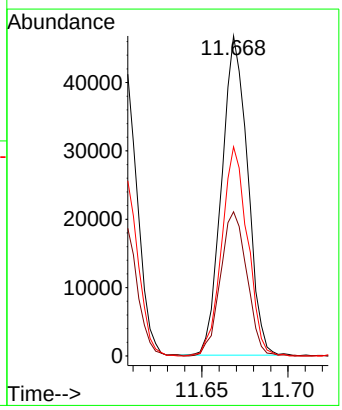


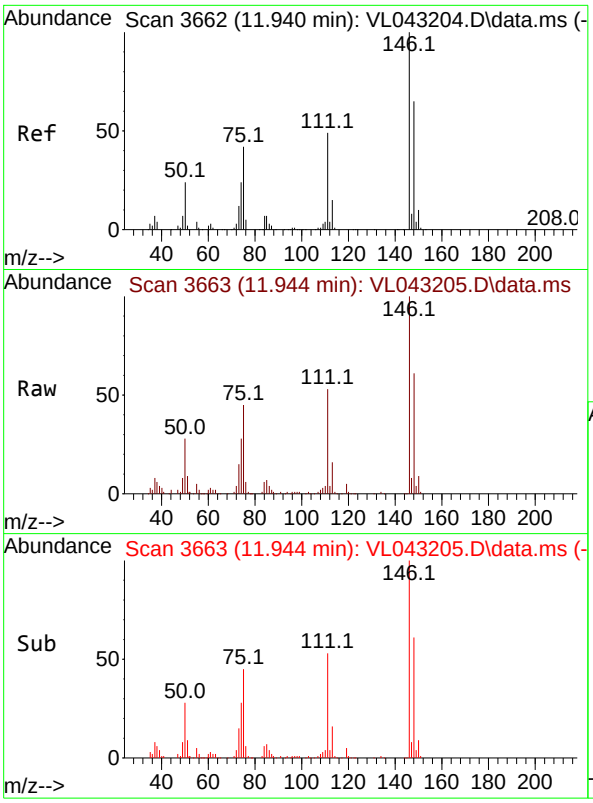


#76
1,4-Dichlorobenzene
Concen: 2.112 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:146 Resp: 48881

Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.8	68.3
148	65.3	31.8	95.4



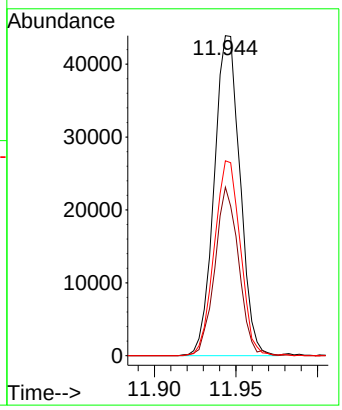


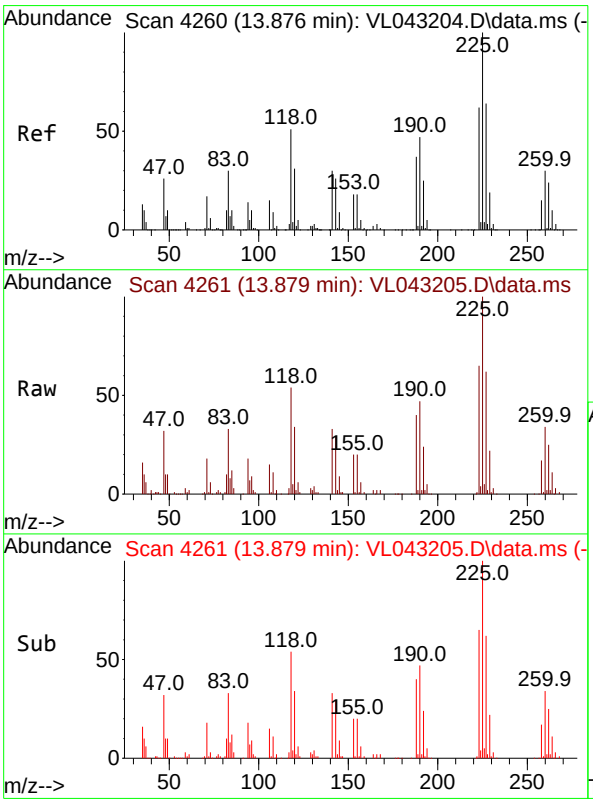
#77
1,2-Dichlorobenzene
Concen: 2.177 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:146 Resp: 48431

Ion	Ratio	Lower	Upper
146	100		
111	48.5	24.3	73.0
148	61.3	31.6	94.7

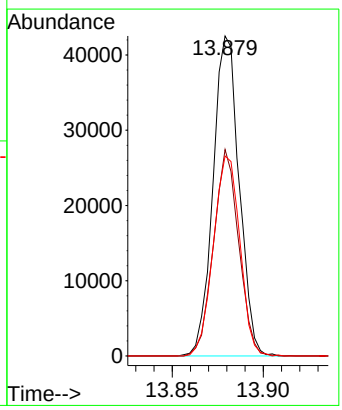


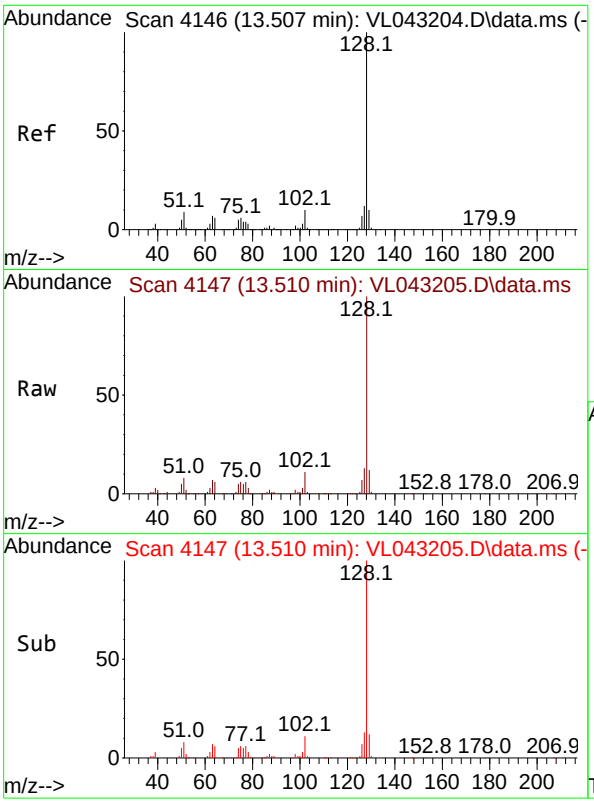


#78
Hexachloro-1,3-Butadiene
Concen: 2.287 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:225 Resp: 42456

Ion	Ratio	Lower	Upper
225	100		
223	62.1	50.2	75.4
227	63.4	51.1	76.7



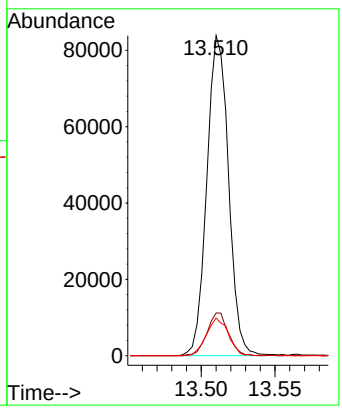


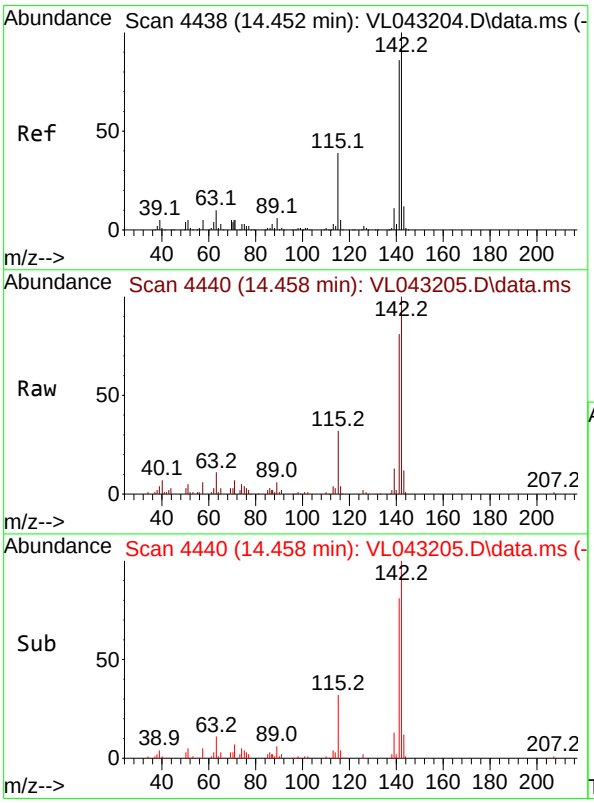
#79
Naphthalene
Concen: 2.436 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:128 Resp: 85788

Ion	Ratio	Lower	Upper
128	100		
127	13.3	9.9	14.9
129	11.7	8.4	12.6

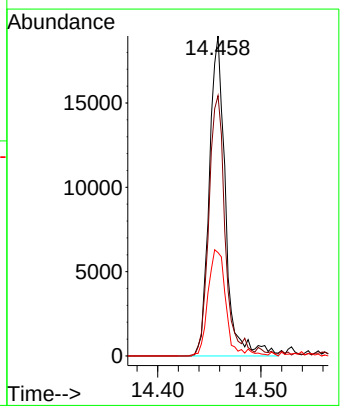


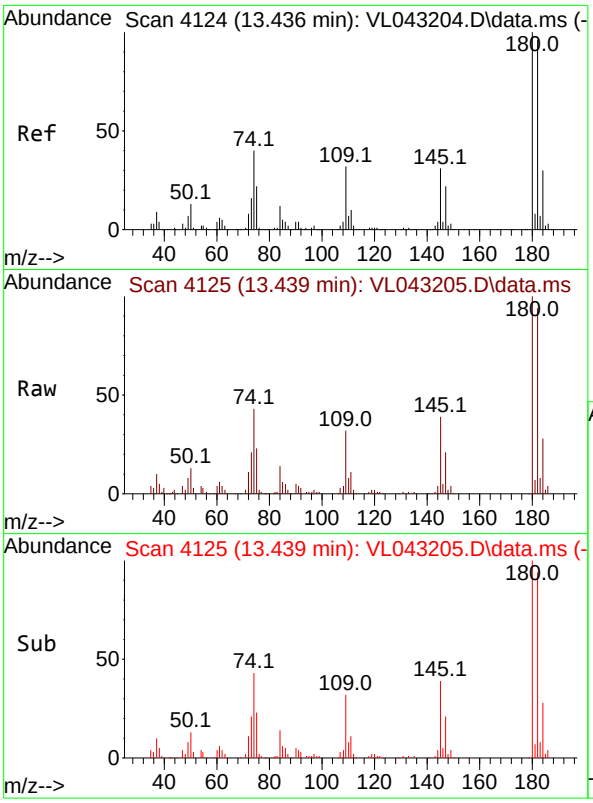


#80
Naphthalene,2-methyl-
Concen: 2.237 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.006 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Tgt Ion:142 Resp: 20685

Ion	Ratio	Lower	Upper
142	100		
141	82.9	67.1	100.7
115	36.9	31.9	47.9



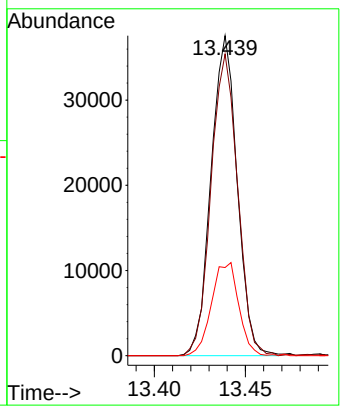


#81
1,2,4-Trichlorobenzene
Concen: 2.382 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043205.D
Acq: 18 Nov 2025 10:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:180 Resp: 37521

Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.4	116.2
184	30.4	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043206.D
Acq On : 18 Nov 2025 11:10
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Nov 19 00:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	102795	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	278732	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	227998	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	167061	9.996	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	15474	1.067	ppbv	100
3) Chlorodifluoromethane	1.476	51	14437	1.013	ppbv #	92
4) Chloromethane	1.531	50	5751	1.061	ppbv	92
5) Vinyl Chloride	1.580	62	5967	1.007	ppbv	95
6) Bromomethane	1.667	94	3104	1.080	ppbv	94
7) Chloroethane	1.706	64	2550	1.104	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	12759	1.058	ppbv	98
9) Propene	1.483	41	6147	0.929	ppbv #	1
10) Heptane	4.972	43	18544	1.022	ppbv	100
11) Trichlorofluoromethane	1.877	101	15571	1.108	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	11743	1.071	ppbv	99
13) Ethanol	1.719	45	2373	1.115	ppbv	67
14) Bromoethene	1.780	108	4345	1.033	ppbv #	91
15) Acetone	1.835	43	16353	1.145	ppbv	90
16) 1,3-Butadiene	1.609	39	6469	1.016	ppbv	96
17) tert-Butyl alcohol	2.039	59	20703	1.104	ppbv #	92
18) 1,1-Dichloroethene	2.033	96	5447	1.067	ppbv	97
19) Isopropyl Alcohol	1.884	45	8849	1.097	ppbv #	43
20) Methylene Chloride	2.059	84	7297	1.030	ppbv	85
21) Allyl Chloride	2.094	41	9198	0.957	ppbv #	84
22) trans-1,2-Dichloroethene	2.340	96	6313	1.082	ppbv	94
23) Vinyl Acetate	2.460	43	16779	0.973	ppbv	98
24) 1,1-Dichloroethane	2.405	63	12062	1.071	ppbv	94
25) Ethyl Acetate	2.832	43	32108	1.041	ppbv	98
26) Hexane	2.819	57	14639	1.084	ppbv	99
27) Carbon Disulfide	2.149	76	14637	1.062	ppbv #	30
28) Methyl tert-Butyl Ether	2.441	73	7236	1.092	ppbv #	83
29) Chloroform	2.845	83	19509	1.016	ppbv	91
30) Cyclohexane	3.852	84	12269	1.084	ppbv	96
31) cis-1,2-Dichloroethene	2.716	61	13889	1.035	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	20745	1.005	ppbv	99
34) 2-Butanone	2.554	43	20940	1.064	ppbv	96
35) Carbon Tetrachloride	3.758	117	21497	1.016	ppbv	96
36) Benzene	3.648	78	27911	1.046	ppbv	99
37) 1,2-Dichloroethane	3.214	62	16159	1.035	ppbv	99
38) Trichloroethene	4.544	130	4331	0.414	ppbv	94
39) 1,2-Dichloropropane	4.311	63	10147	1.039	ppbv	91
40) 1,4-Dioxane	4.577	88	1369	0.312	ppbv #	1
41) Tetrahydrofuran	3.052	42	11176	1.029	ppbv	96
42) Bromodichloromethane	4.480	83	22150	1.028	ppbv #	98
43) Methyl Methacrylate	4.871	69	14821	1.046	ppbv	94
44) 2,2,4-Trimethylpentane	4.632	57	30372	0.662	ppbv #	60
45) t-1,3-Dichloropropene	6.402	75	8750	0.663	ppbv	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043206.D
Acq On : 18 Nov 2025 11:10
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Nov 19 00:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	15527	1.001	ppbv	#	95
47) 1,1,2-Trichloroethane	6.577	97	10369	0.995	ppbv	#	85
48) Dibromochloromethane	7.377	129	18560	1.041	ppbv		93
49) Bromoform	9.477	173	15858	1.004	ppbv		98
50) 4-Methyl-2-Pentanone	5.745	43	29560	1.067	ppbv		99
51) 2-Hexanone	7.428	43	22438	1.043	ppbv	#	98
52) Tetrachloroethene	8.215	164	10080	1.015	ppbv		90
53) Toluene	6.923	91	32951	1.036	ppbv		100
54) 1,2-Dibromoethane	7.645	107	15865	1.040	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.917	131	17535	1.046	ppbv		99
57) Chlorobenzene	8.914	112	24806	1.060	ppbv		98
58) Ethyl Benzene	9.344	91	46455	1.059	ppbv		96
59) m/p-Xylene	9.545	91	32159	0.911	ppbv	#	31
60) o-Xylene	9.956	91	37054	1.054	ppbv		97
61) Styrene	9.866	104	15730	1.023	ppbv		95
62) Isopropylbenzene	10.532	105	67163	1.068	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	23083	1.035	ppbv		97
64) n-propylbenzene	10.985	120	17289	1.070	ppbv		100
65) tert-Butylbenzene	11.526	119	61258	1.091	ppbv		99
66) Benzyl Chloride	11.610	91	5729	1.005	ppbv		96
67) sec-Butylbenzene	11.762	105	84989	1.084	ppbv		99
69) p-Isopropyltoluene	11.921	119	69993	1.054	ppbv		99
70) n-Butylbenzene	12.277	91	69323	1.076	ppbv		99
71) 2-Chlorotoluene	10.895	91	51452	1.065	ppbv		100
72) 4-Ethyltoluene	11.118	105	44403	1.037	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	38350	1.068	ppbv		91
74) 1,2,4-Trimethylbenzene	11.532	105	42051	1.073	ppbv	#	81
75) 1,3-Dichlorobenzene	11.600	146	24011	1.050	ppbv		98
76) 1,4-Dichlorobenzene	11.665	146	23543	1.029	ppbv		97
77) 1,2-Dichlorobenzene	11.940	146	24248	1.103	ppbv		98
78) Hexachloro-1,3-Butadiene	13.879	225	20489	1.116	ppbv		99
79) Naphthalene	13.507	128	36462	1.047	ppbv		95
80) Naphthalene,2-methyl-	14.455	142	7375	0.807	ppbv		95
81) 1,2,4-Trichlorobenzene	13.436	180	15785	1.014	ppbv		98

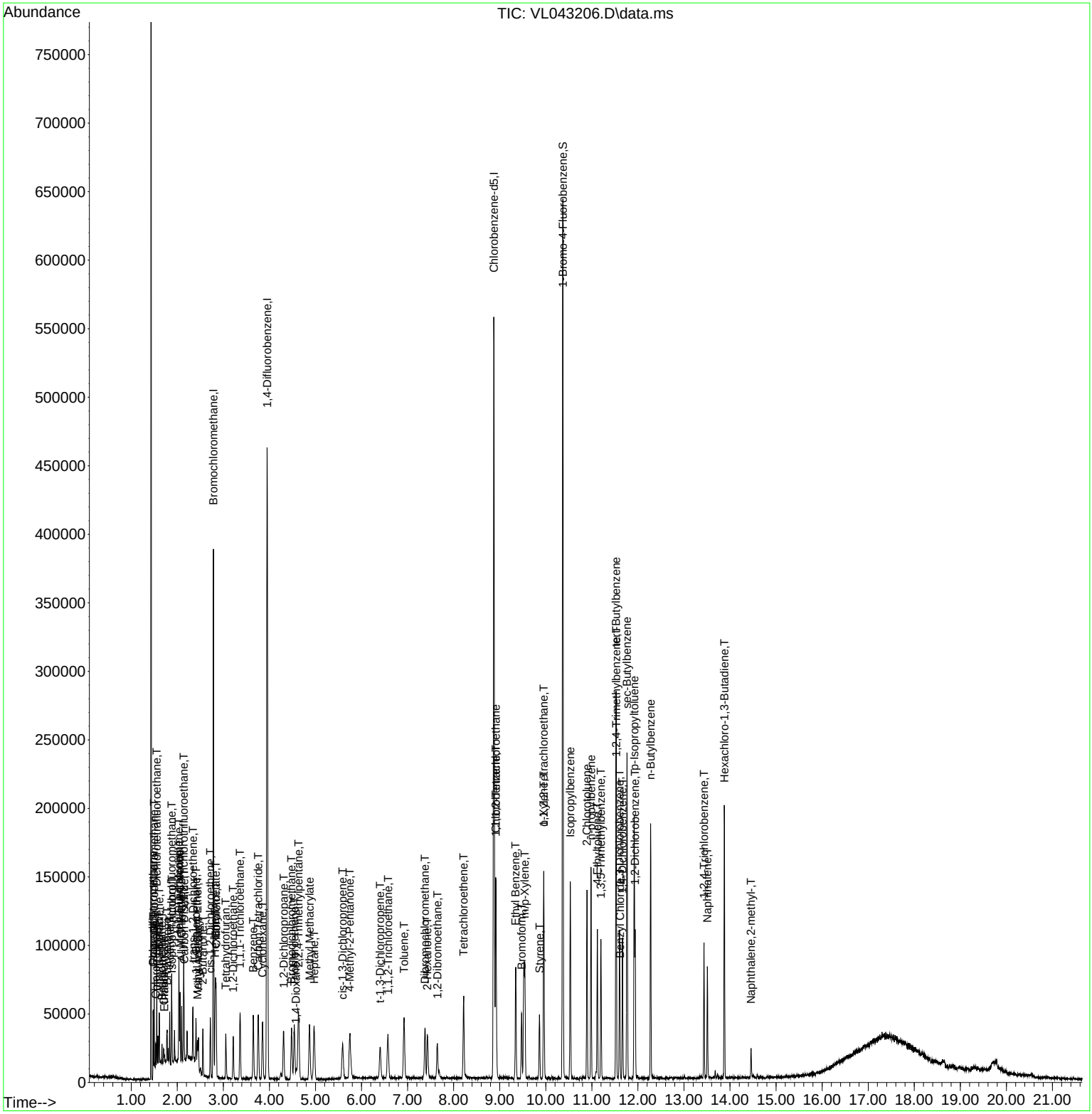
(#) = qualifier out of range (m) = manual integration (+) = signals summed

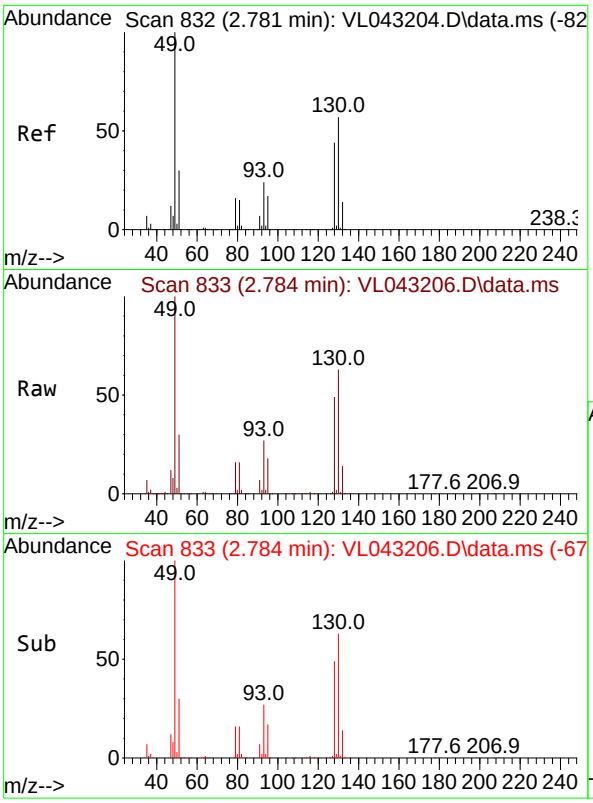
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043206.D
Acq On : 18 Nov 2025 11:10
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Nov 19 00:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration



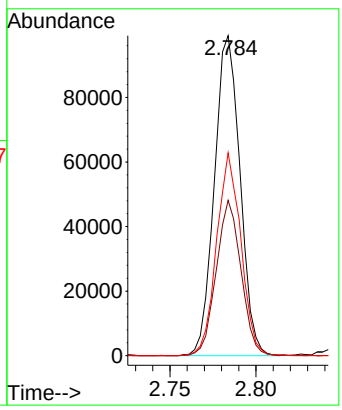


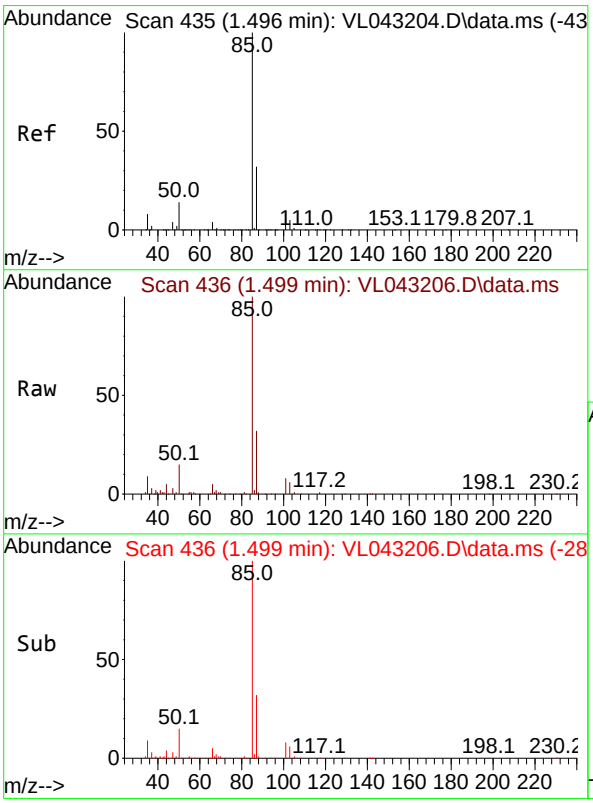
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 49 Resp: 102795

Ion	Ratio	Lower	Upper
49	100		
128	46.9	23.0	69.0
130	60.1	29.9	89.7

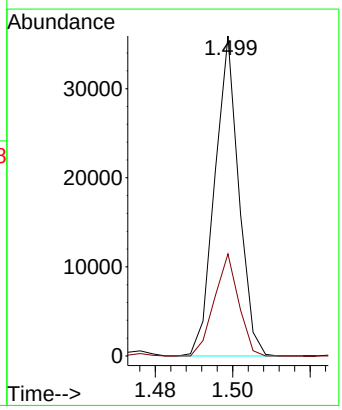


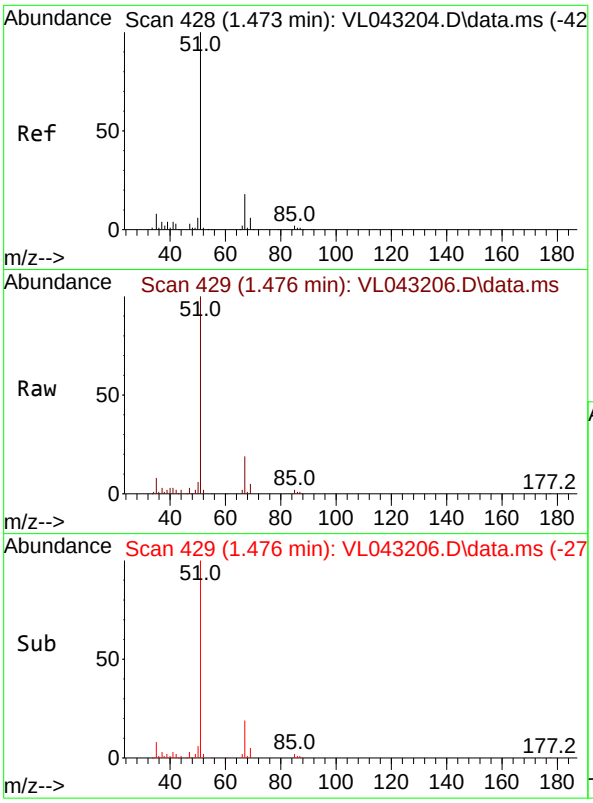


#2
Dichlorodifluoromethane
Concen: 1.067 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 85 Resp: 15474

Ion	Ratio	Lower	Upper
85	100		
87	31.9	25.4	38.2



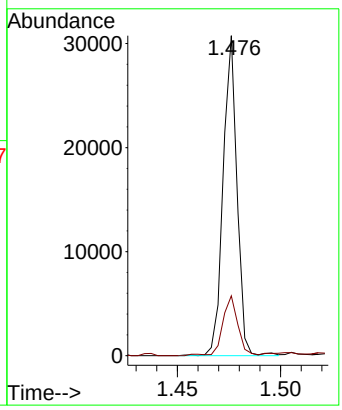


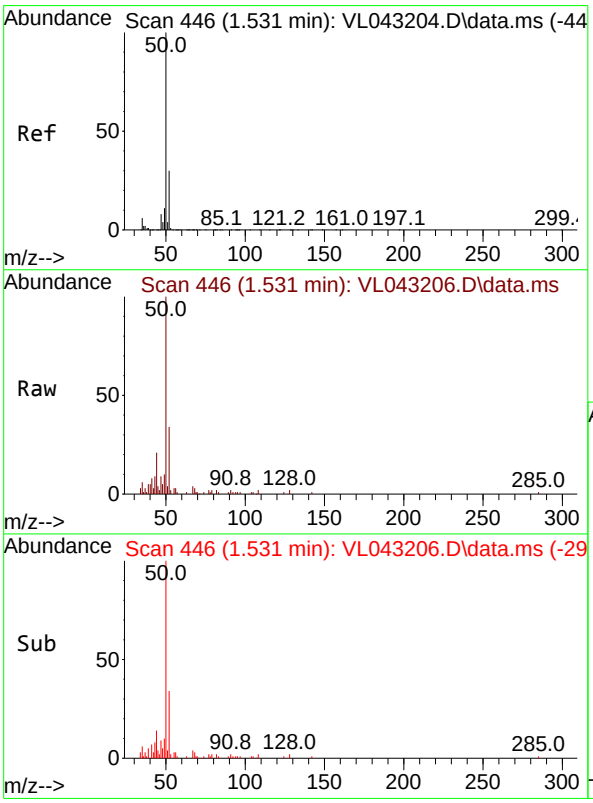
#3
Chlorodifluoromethane
Concen: 1.013 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 14437

Ion	Ratio	Lower	Upper
51	100		
67	22.3	14.9	22.3#

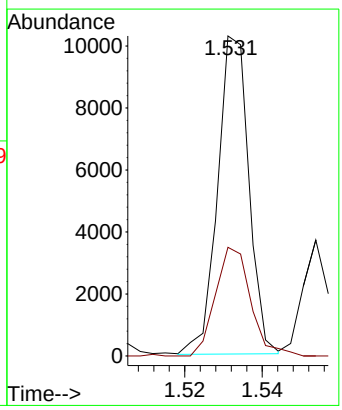


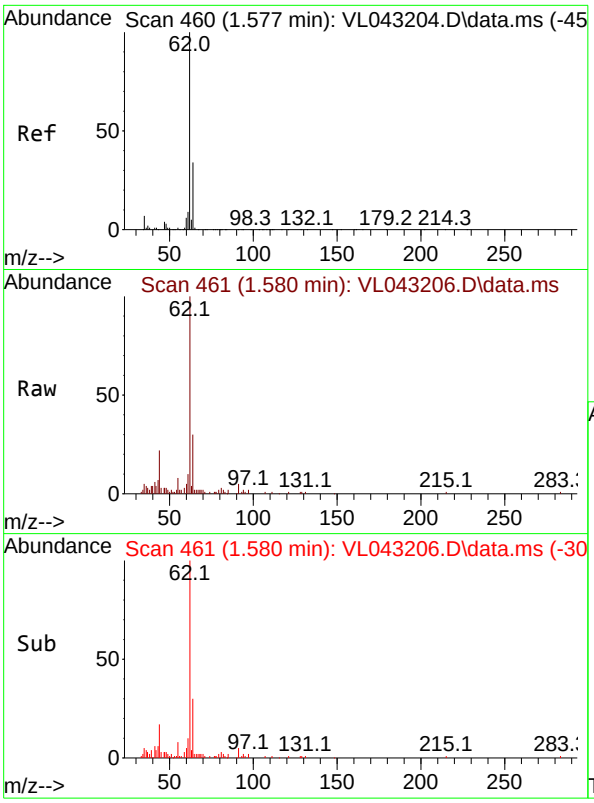


#4
Chloromethane
Concen: 1.061 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 50 Resp: 5751

Ion	Ratio	Lower	Upper
50	100		
52	34.2	24.1	36.1



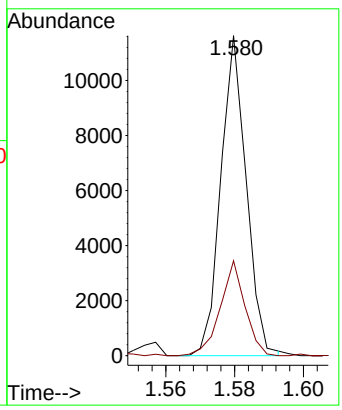


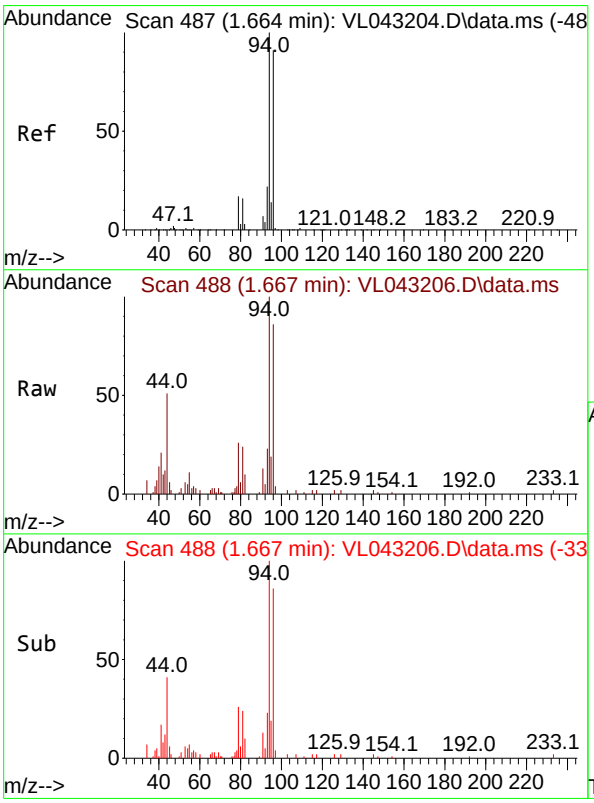
#5
Vinyl Chloride
Concen: 1.007 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 5967

Ion	Ratio	Lower	Upper
62	100		
64	31.3	27.3	40.9

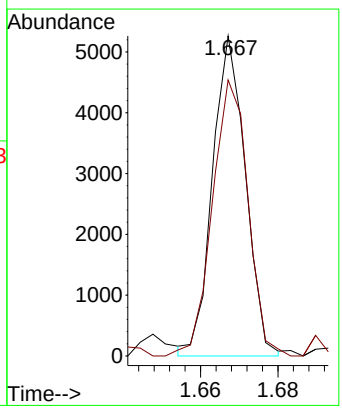


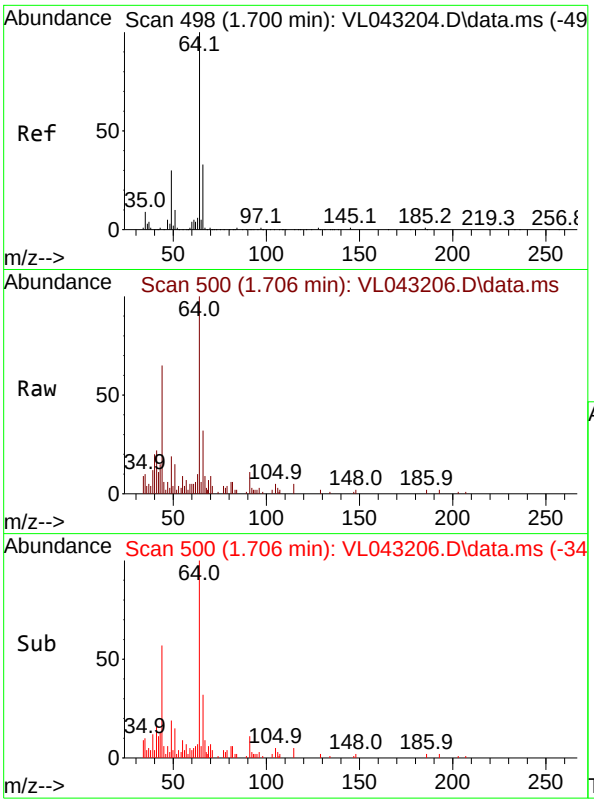


#6
Bromomethane
Concen: 1.080 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 94 Resp: 3104

Ion	Ratio	Lower	Upper
94	100		
96	85.7	72.9	109.3



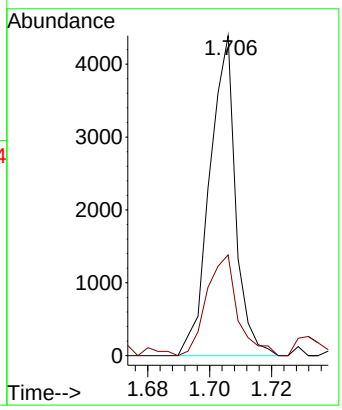


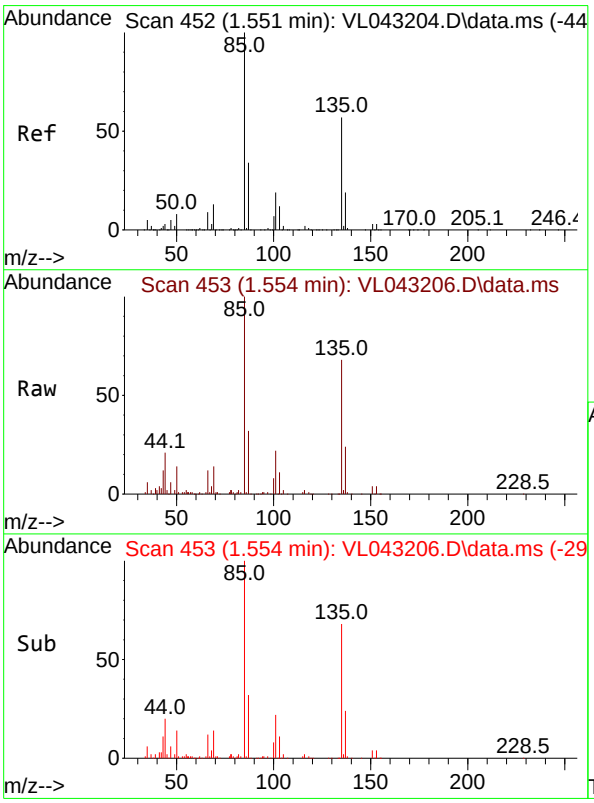
#7
Chloroethane
Concen: 1.104 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 2550

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.8	40.2

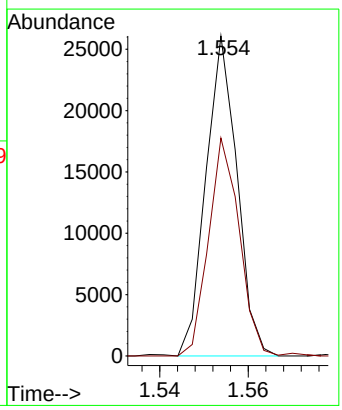


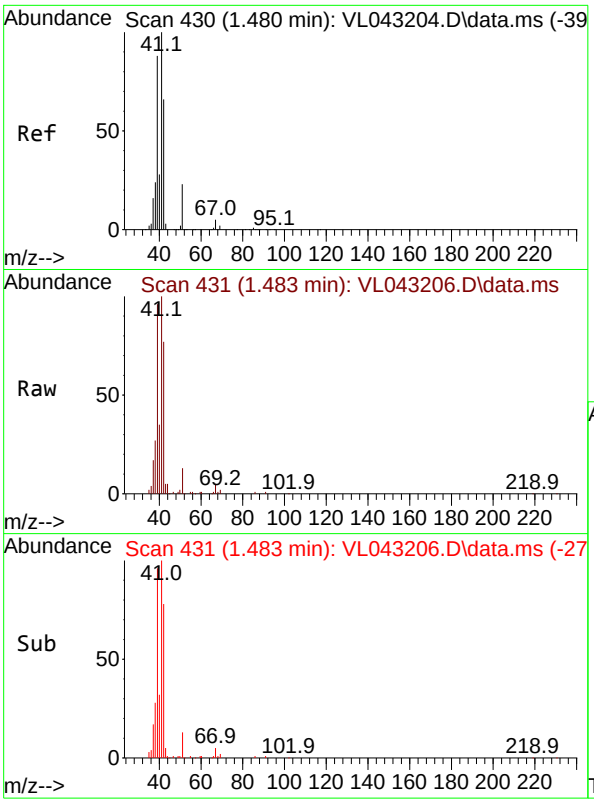


#8
Dichlorotetrafluoroethane
Concen: 1.058 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 85 Resp: 12759

Ion	Ratio	Lower	Upper
85	100		
135	67.7	52.6	79.0



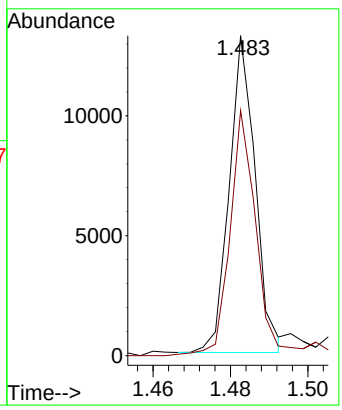


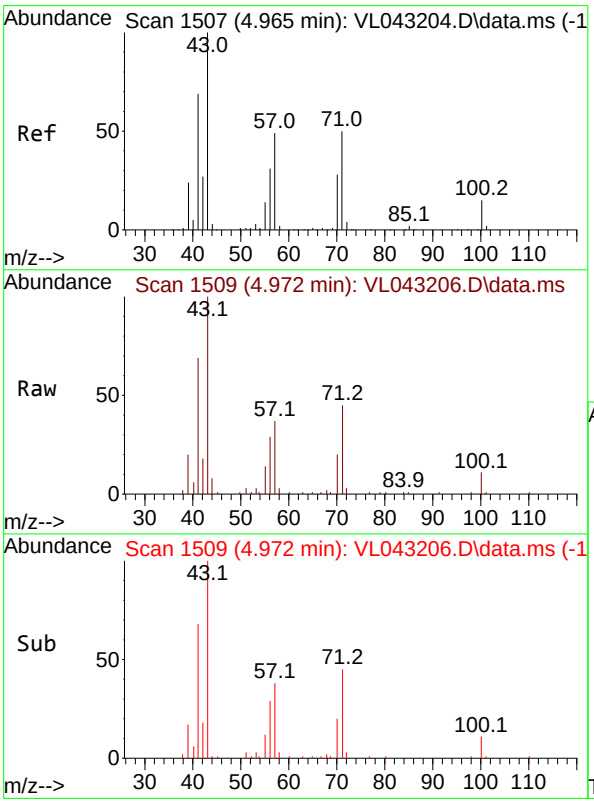
#9
Propene
Concen: 0.929 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 6147

Ion	Ratio	Lower	Upper
41	100		
42	80.0	3.7	5.5#

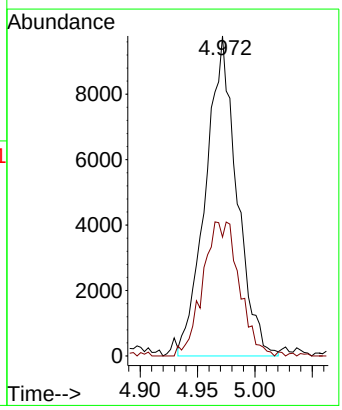


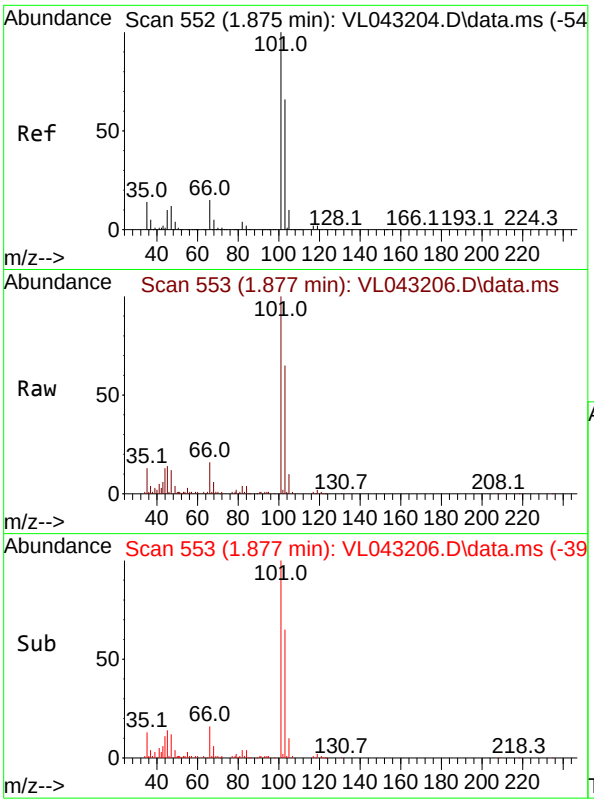


#10
Heptane
Concen: 1.022 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 18544

Ion	Ratio	Lower	Upper
43	100		
57	49.3	39.7	59.5



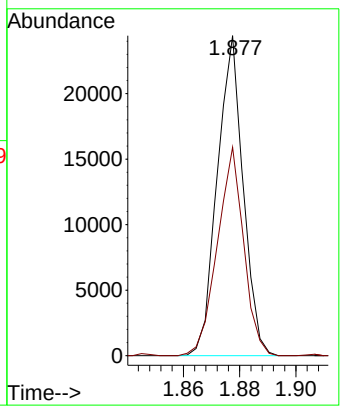


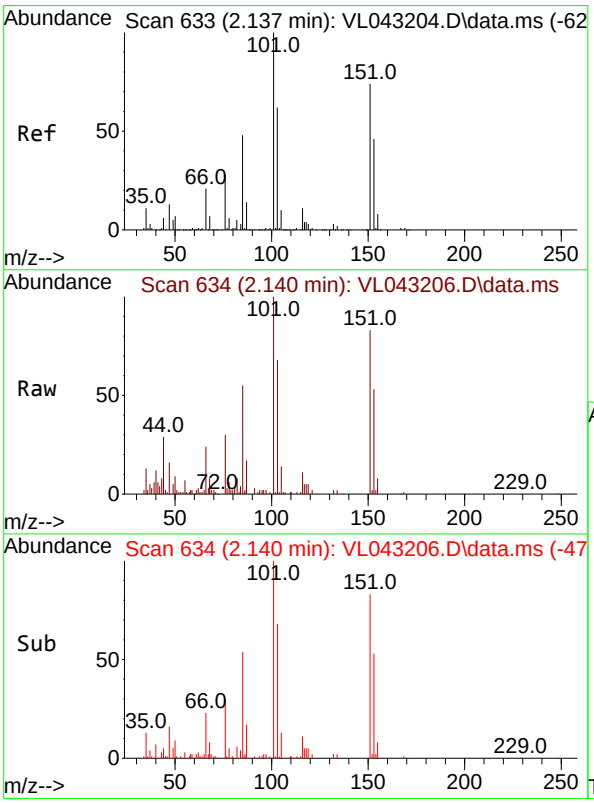
#11
Trichlorofluoromethane
Concen: 1.108 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 15571

Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.6	79.0

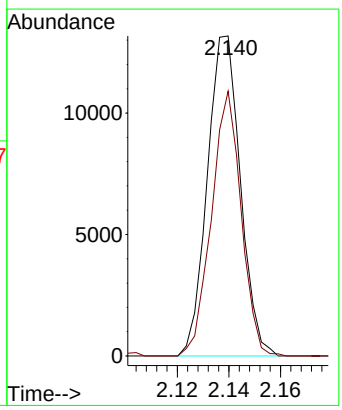


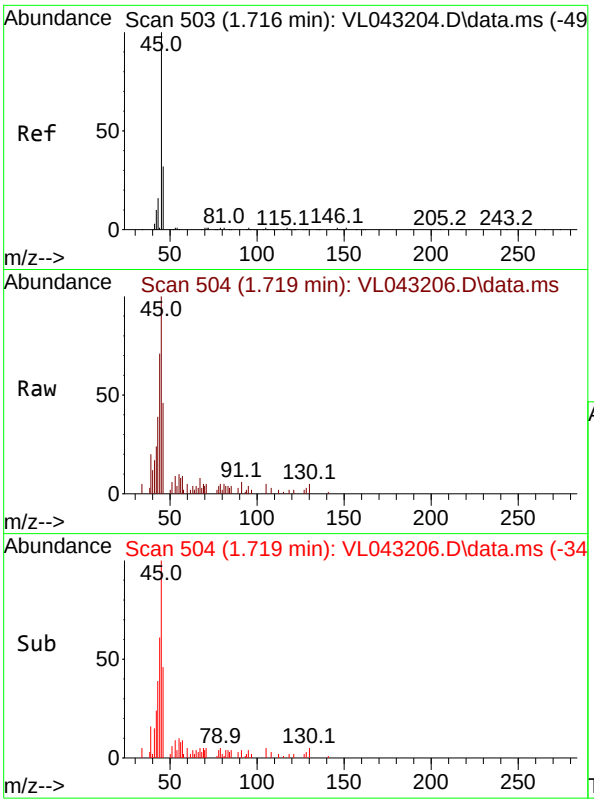


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.071 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:101 Resp: 11743

Ion	Ratio	Lower	Upper
101	100		
151	74.6	59.2	88.8



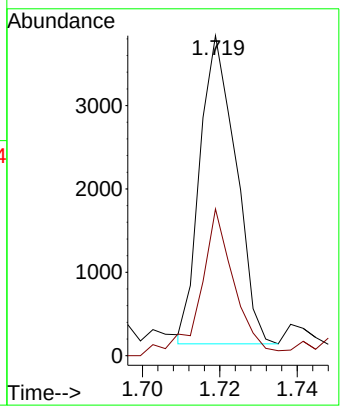


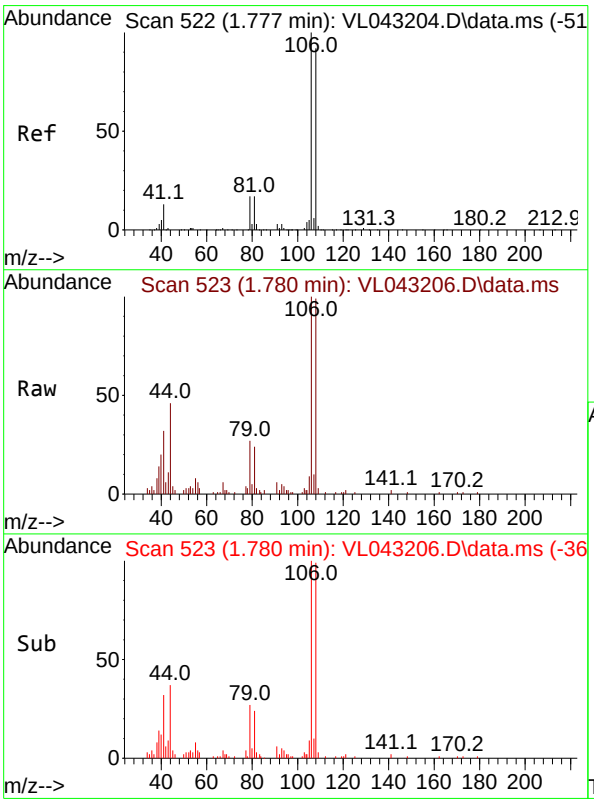
#13
Ethanol
Concen: 1.115 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 2373

Ion	Ratio	Lower	Upper
45	100		
46	57.0	15.0	59.8

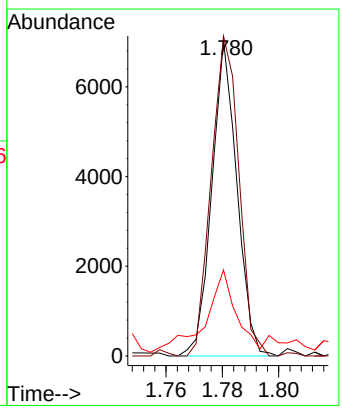


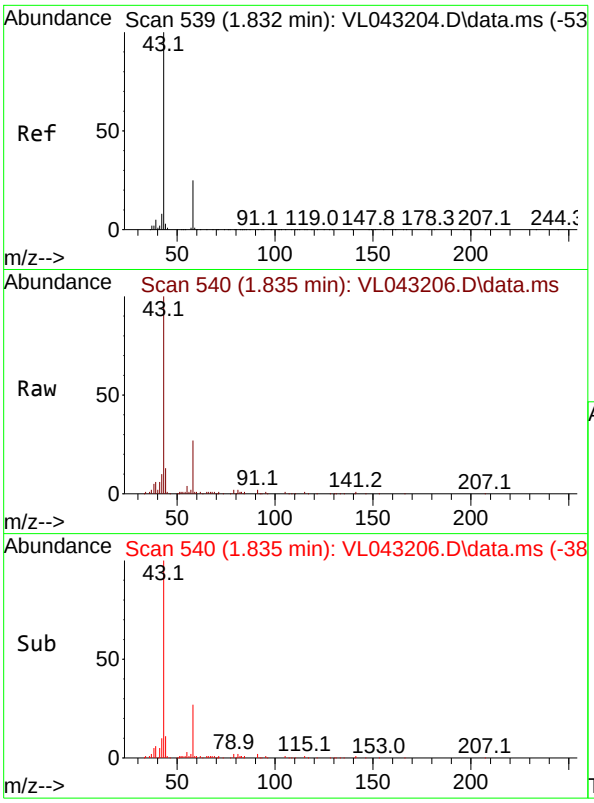


#14
Bromoethene
Concen: 1.033 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:108 Resp: 4345

Ion	Ratio	Lower	Upper
108	100		
106	114.0	88.9	133.3
79	39.2	16.5	24.7#



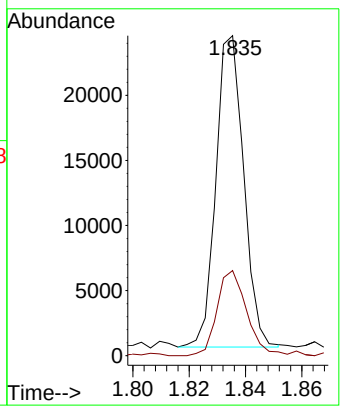


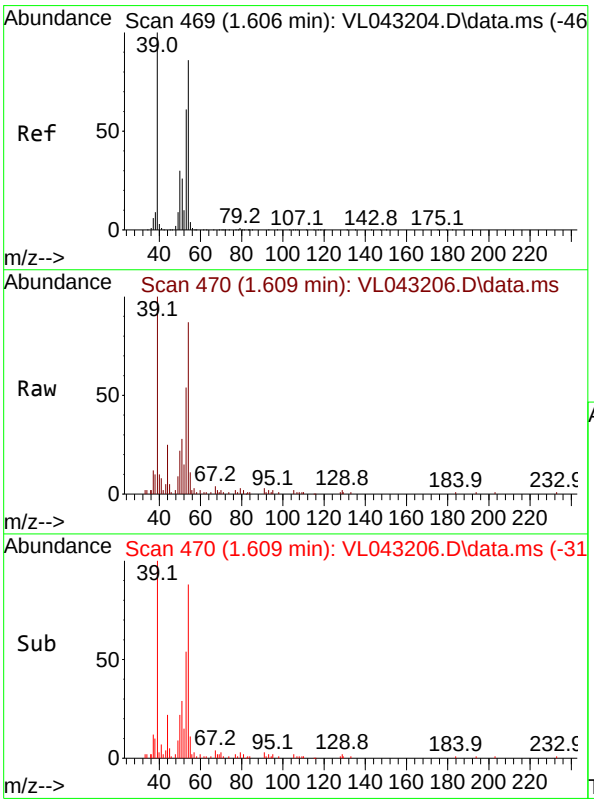
#15
Acetone
Concen: 1.145 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 16353

Ion	Ratio	Lower	Upper
43	100		
58	30.9	20.7	31.1

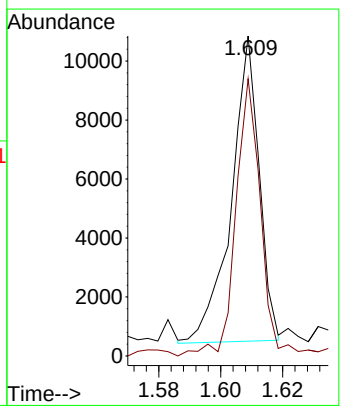


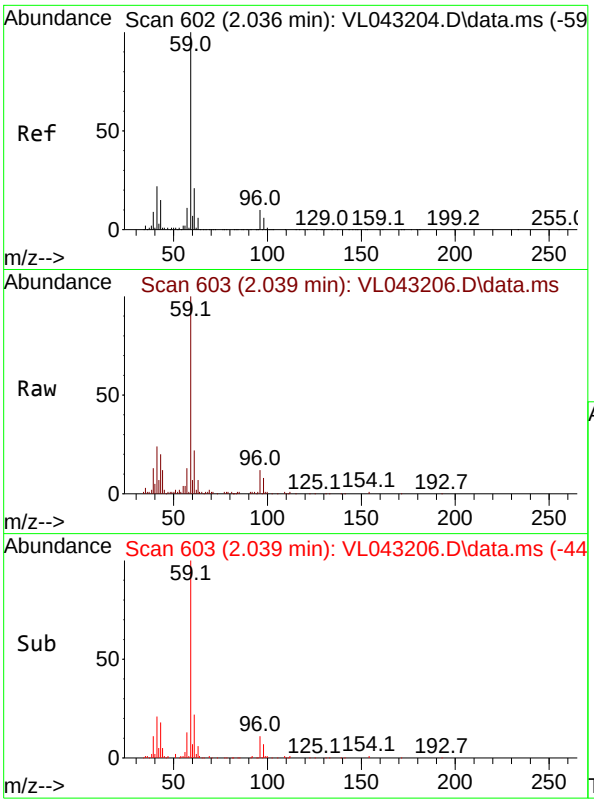


#16
1,3-Butadiene
Concen: 1.016 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 39 Resp: 6469

Ion	Ratio	Lower	Upper
39	100		
54	77.8	59.4	89.2



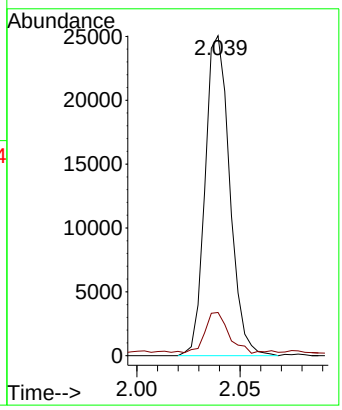


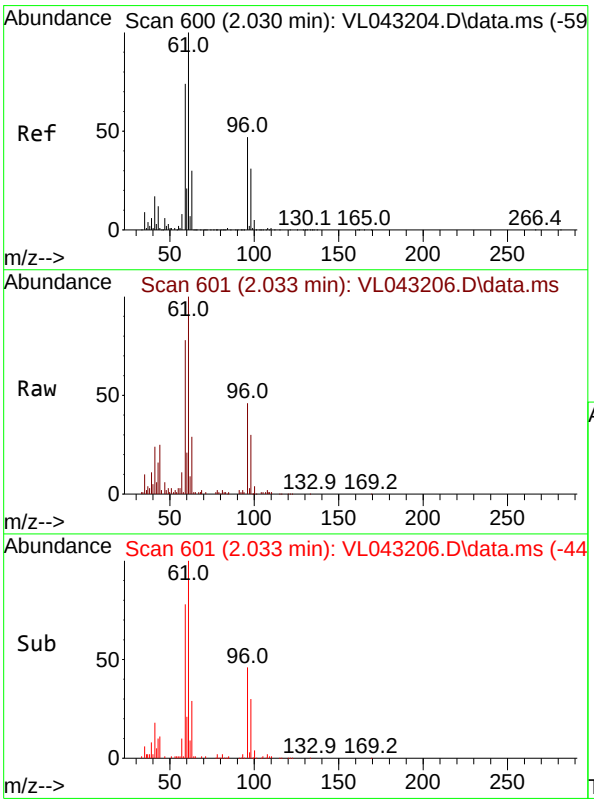
#17
tert-Butyl alcohol
Concen: 1.104 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 20703

Ion	Ratio	Lower	Upper
59	100		
57	14.1	9.0	13.4#

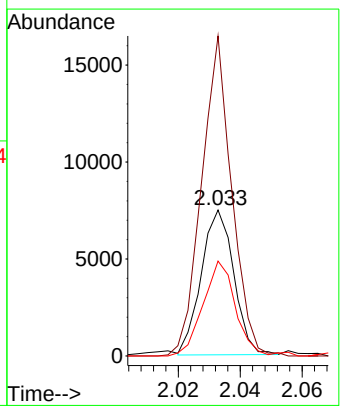


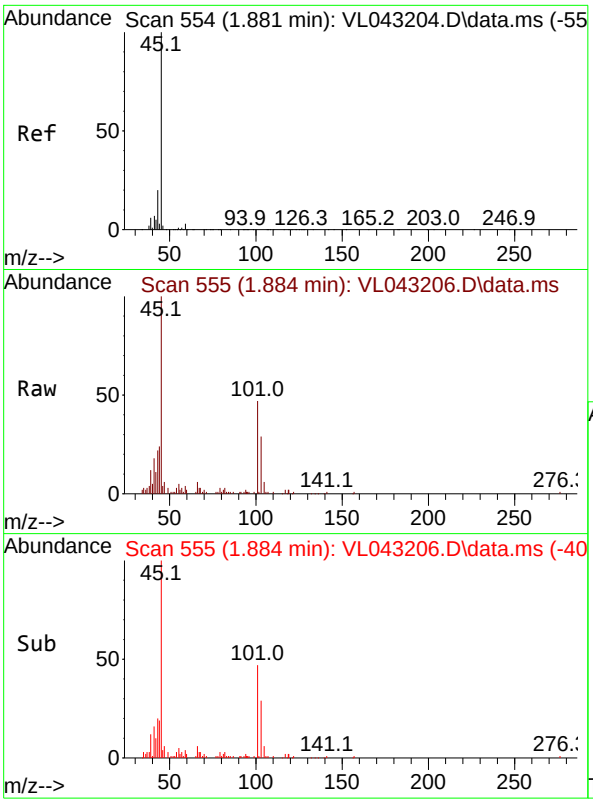


#18
1,1-Dichloroethene
Concen: 1.067 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 96 Resp: 5447

Ion	Ratio	Lower	Upper
96	100		
61	219.3	170.6	255.8
98	63.7	52.2	78.4



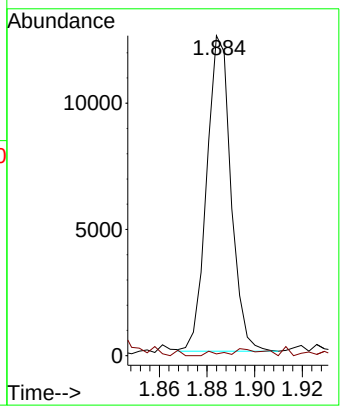


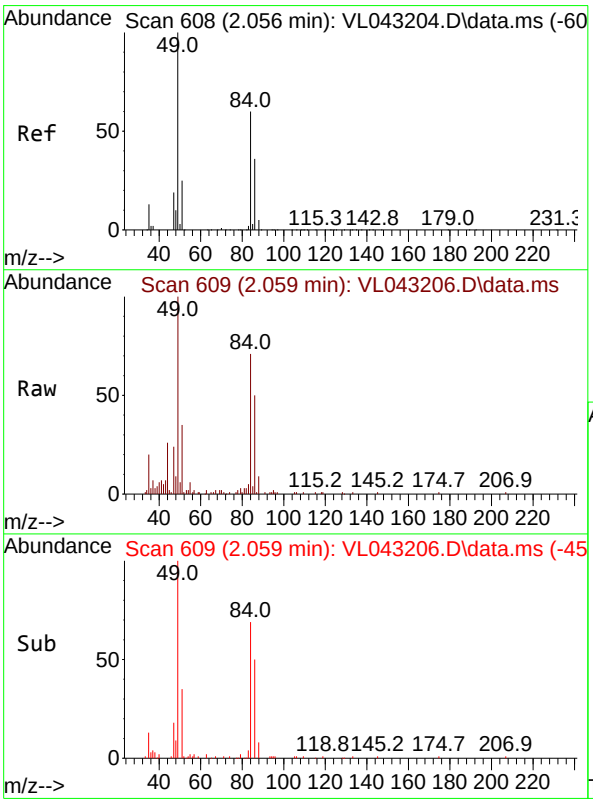
#19
Isopropyl Alcohol
Concen: 1.097 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 8849

Ion	Ratio	Lower	Upper
45	100		
58	4.0	31.3	46.9#

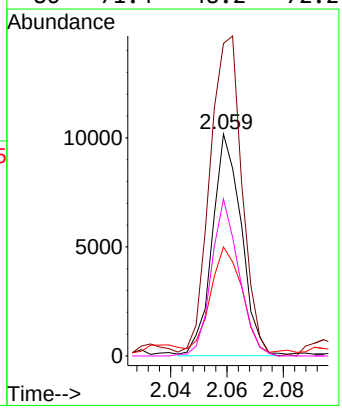


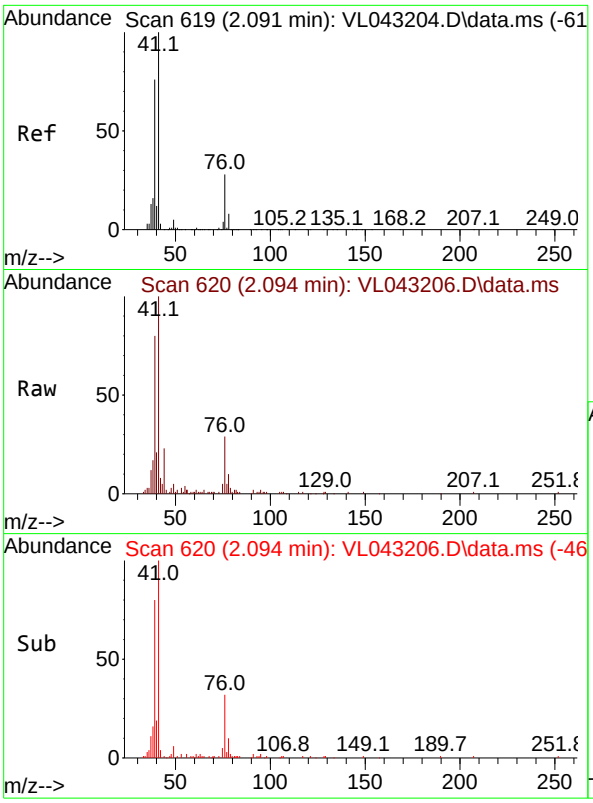


#20
Methylene Chloride
Concen: 1.030 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 84 Resp: 7297

Ion	Ratio	Lower	Upper
84	100		
49	142.0	132.9	199.3
51	47.3	34.8	52.2
86	71.4	48.2	72.2



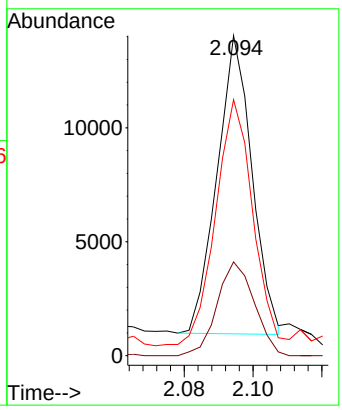


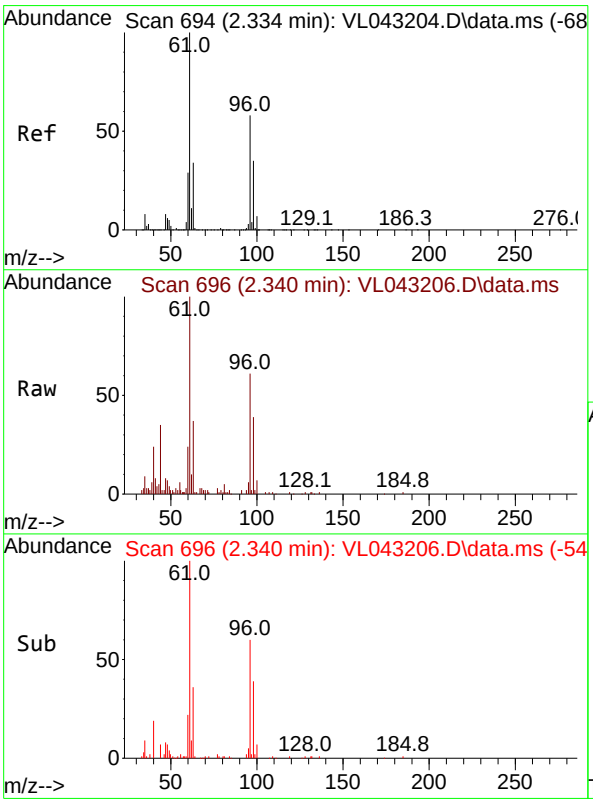
#21
Allyl Chloride
Concen: 0.957 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 9198

Ion	Ratio	Lower	Upper
41	100		
76	33.5	22.1	33.1#
39	91.7	61.0	91.4#

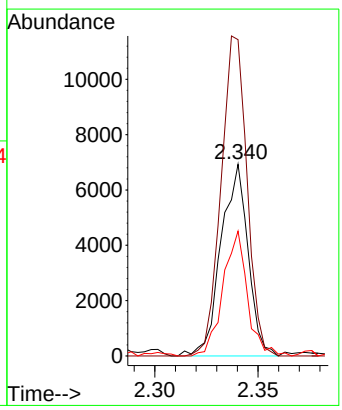


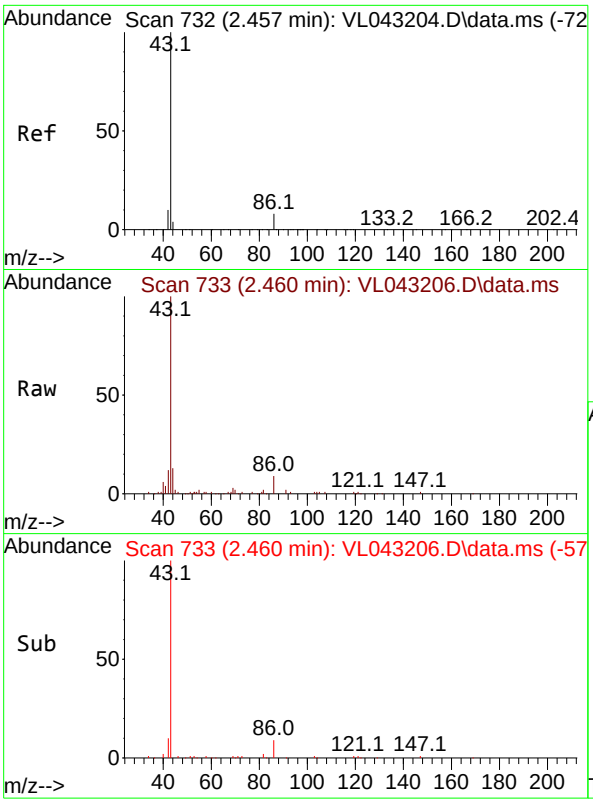


#22
trans-1,2-Dichloroethene
Concen: 1.082 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 96 Resp: 6313

Ion	Ratio	Lower	Upper
96	100		
61	165.0	139.0	208.6
98	65.1	49.4	74.2



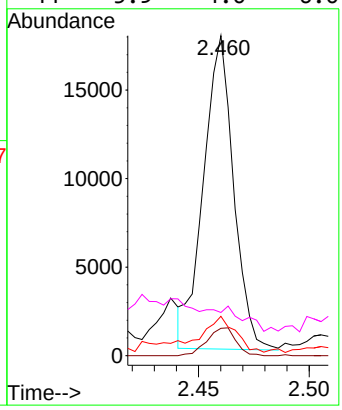


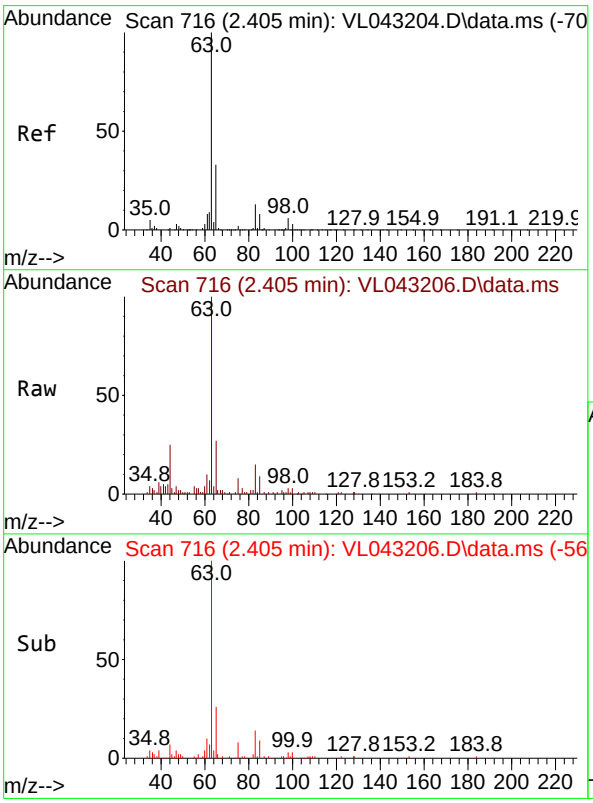
#23
Vinyl Acetate
Concen: 0.973 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 16779

Ion	Ratio	Lower	Upper
43	100		
86	8.8	6.2	9.2
42	10.4	8.0	12.0
44	5.9	4.0	6.0

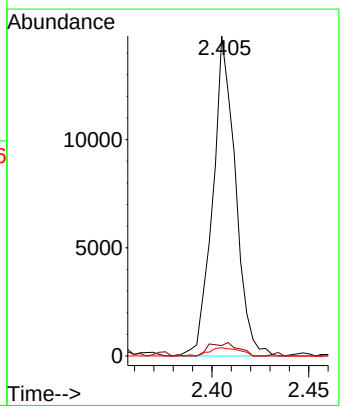


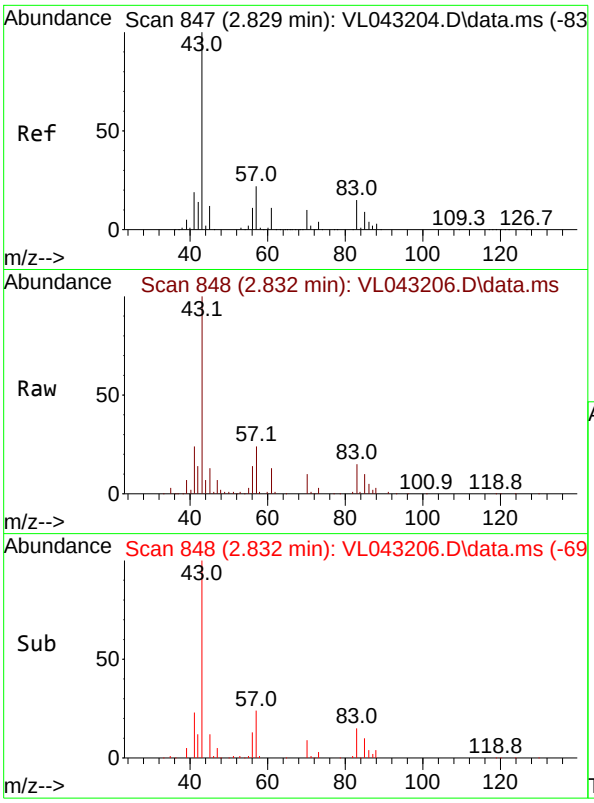


#24
1,1-Dichloroethane
Concen: 1.071 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 63 Resp: 12062

Ion	Ratio	Lower	Upper
63	100		
98	2.9	2.8	8.4
100	2.5	1.3	3.9



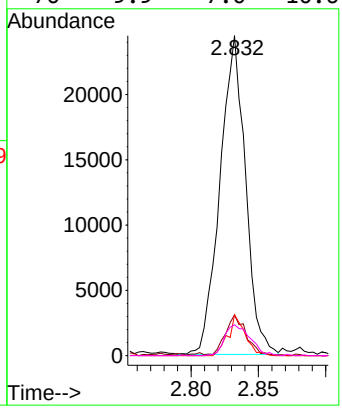


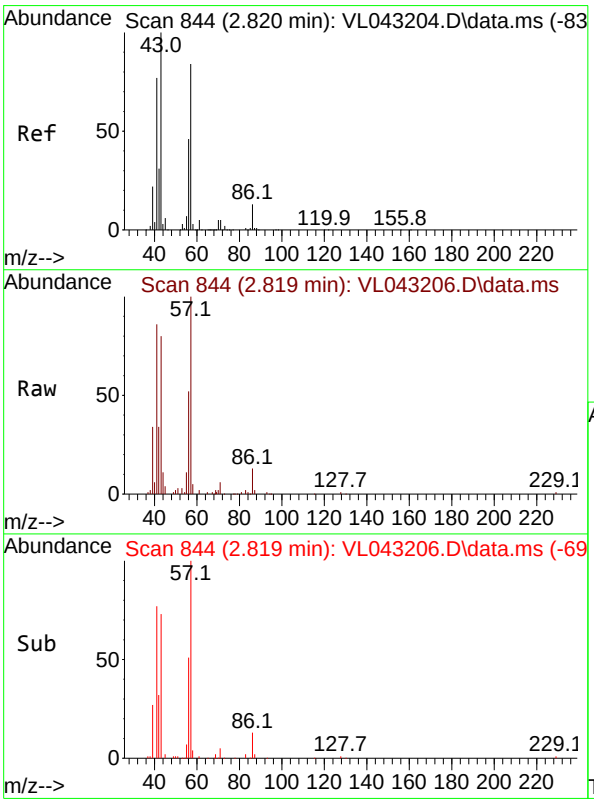
#25
Ethyl Acetate
Concen: 1.041 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 32108

Ion	Ratio	Lower	Upper
43	100		
45	11.1	8.1	12.1
61	8.7	7.0	10.4
70	9.9	7.0	10.6

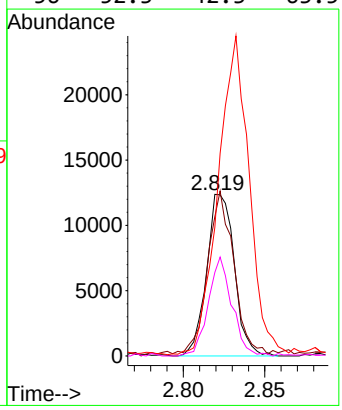


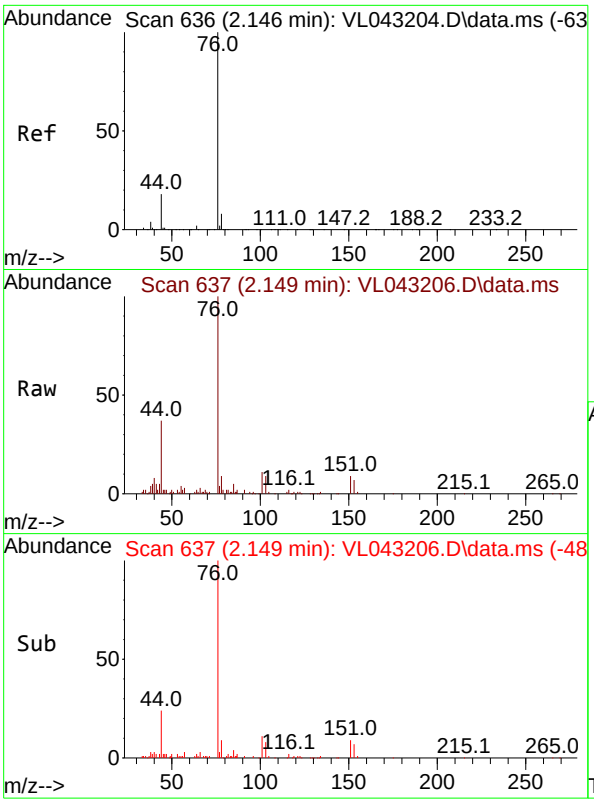


#26
Hexane
Concen: 1.084 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 57 Resp: 14639

Ion	Ratio	Lower	Upper
57	100		
41	96.8	74.6	111.8
43	222.8	179.0	268.4
56	52.3	42.3	63.5



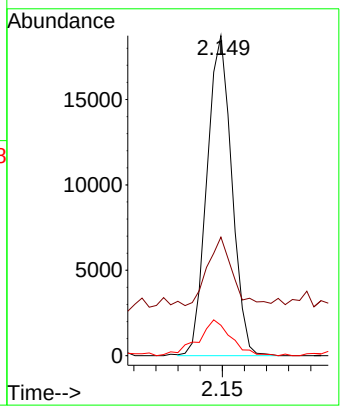


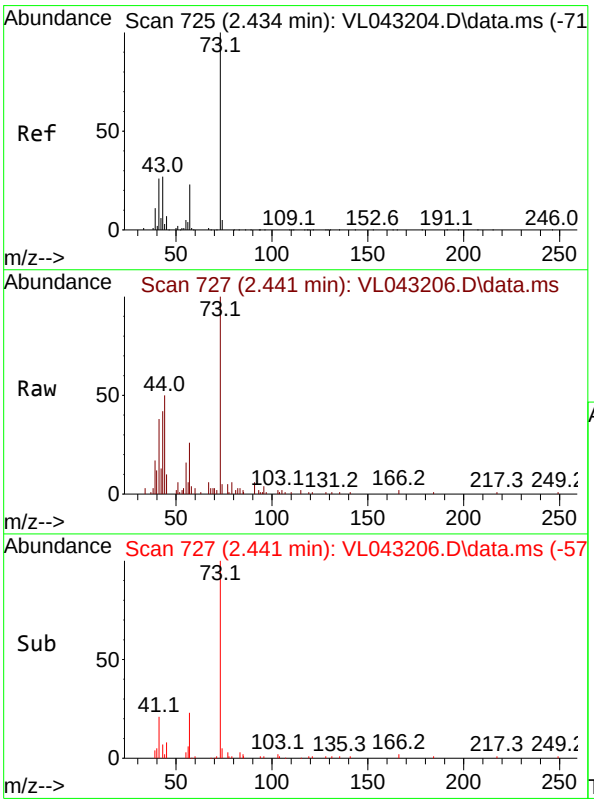
#27
Carbon Disulfide
Concen: 1.062 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 14637

Ion	Ratio	Lower	Upper
76	100		
44	69.6	16.1	24.1#
78	14.8	9.6	14.4#

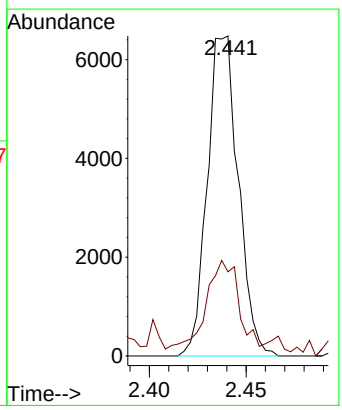


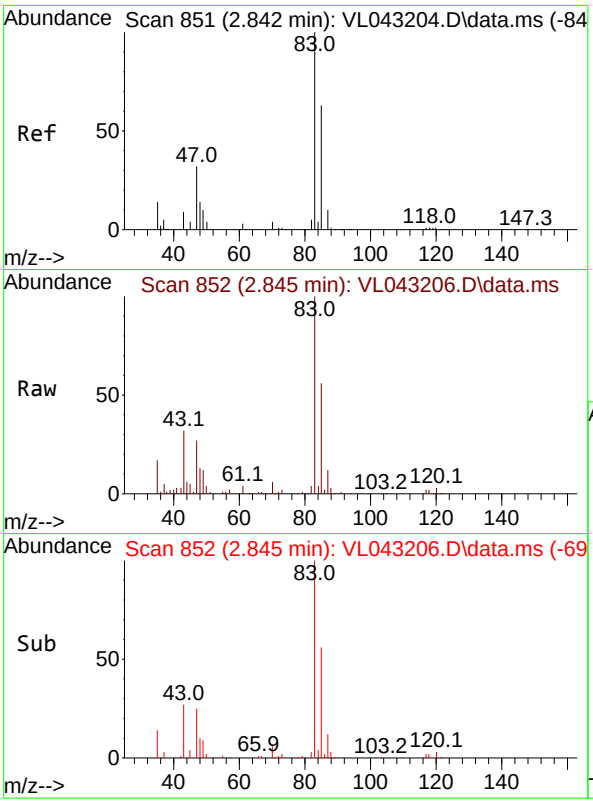


#28
Methyl tert-Butyl Ether
Concen: 1.092 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 73 Resp: 7236

Ion	Ratio	Lower	Upper
73	100		
57	33.1	19.8	29.8#



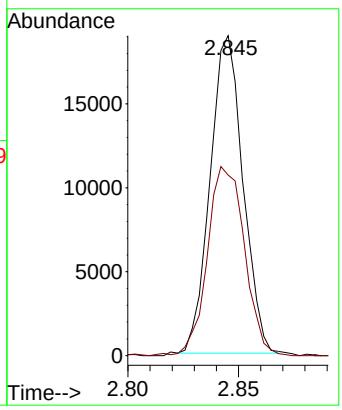


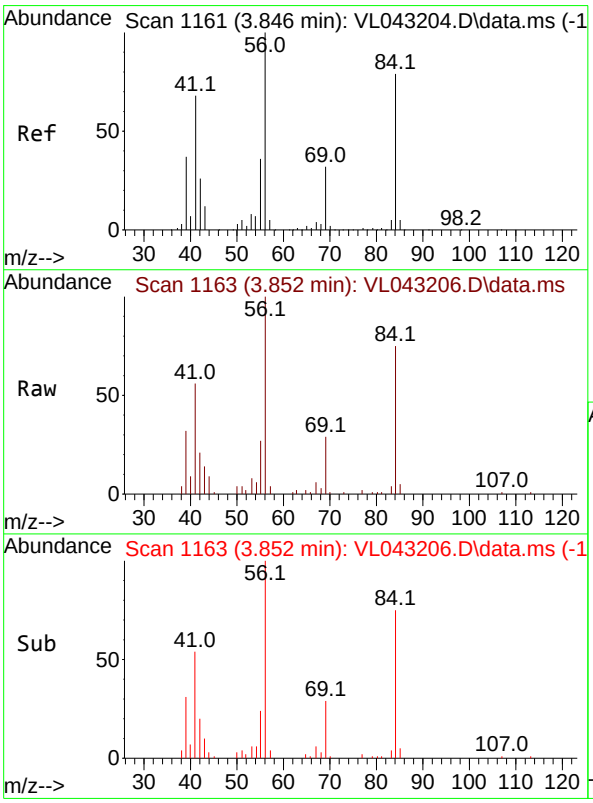
#29
Chloroform
Concen: 1.016 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 19509

Ion	Ratio	Lower	Upper
83	100		
85	56.3	50.5	75.7

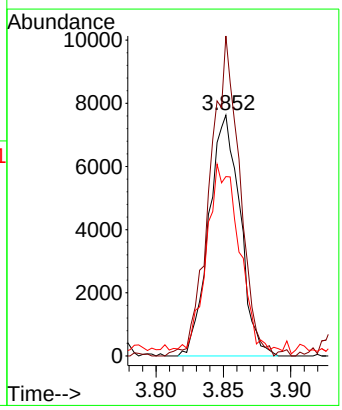


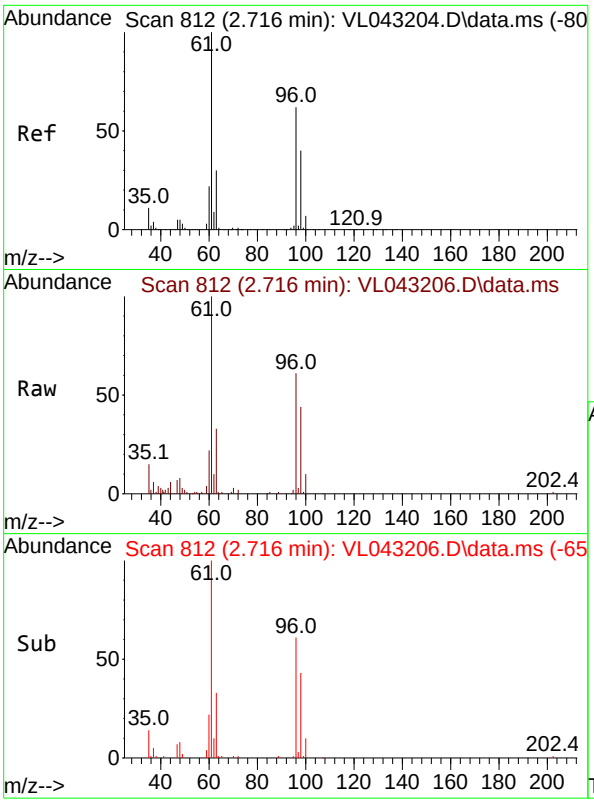


#30
Cyclohexane
Concen: 1.084 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 84 Resp: 12269

Ion	Ratio	Lower	Upper
84	100		
56	127.5	104.7	157.1
41	90.4	69.0	103.6



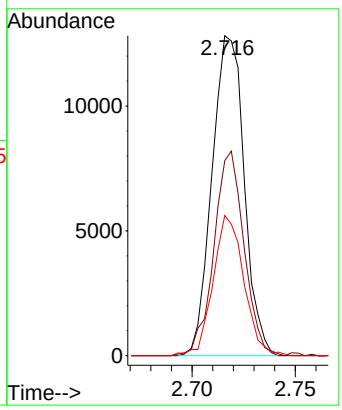


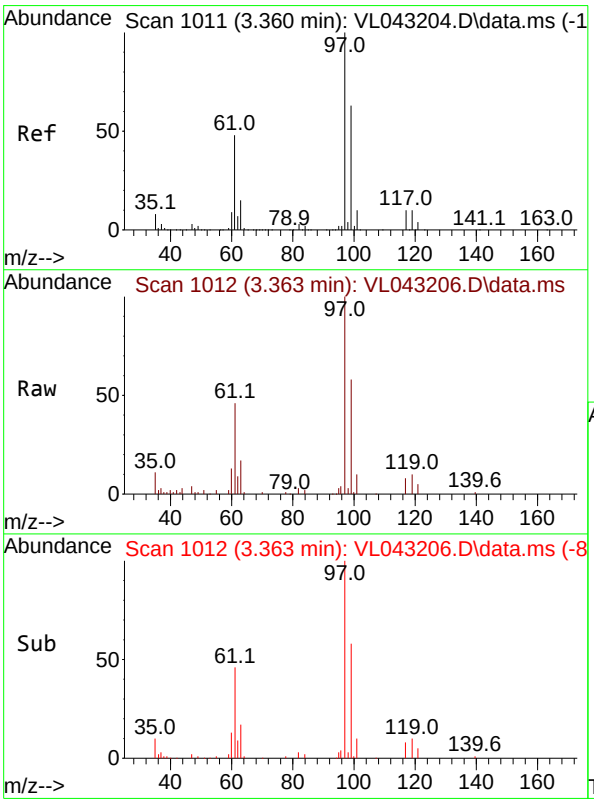
#31
cis-1,2-Dichloroethene
Concen: 1.035 ppbv
RT: 2.716 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 61 Resp: 13889

Ion	Ratio	Lower	Upper
61	100		
96	60.4	49.3	73.9
98	43.0	32.1	48.1

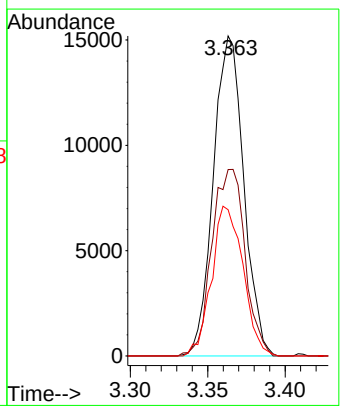


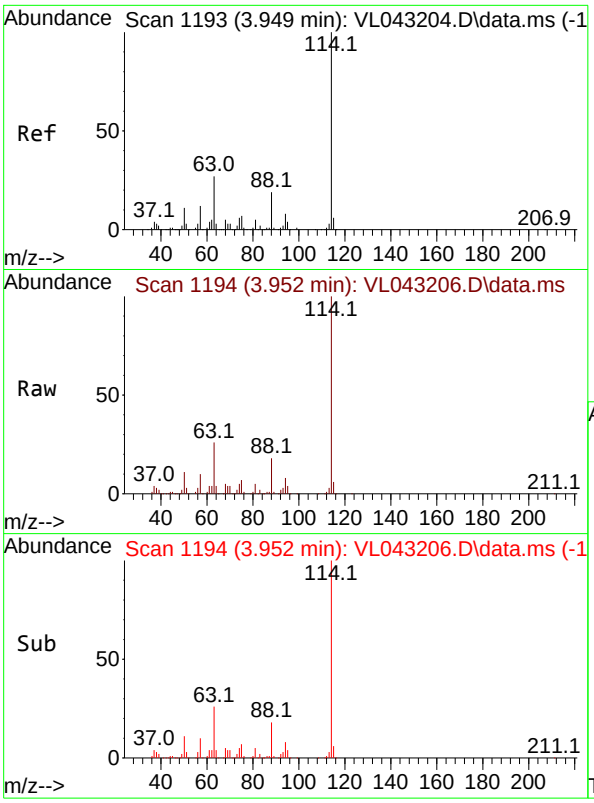


#32
1,1,1-Trichloroethane
Concen: 1.005 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 97 Resp: 20745

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.3	75.5
61	48.3	38.9	58.3



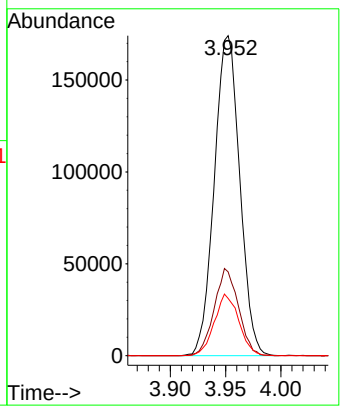


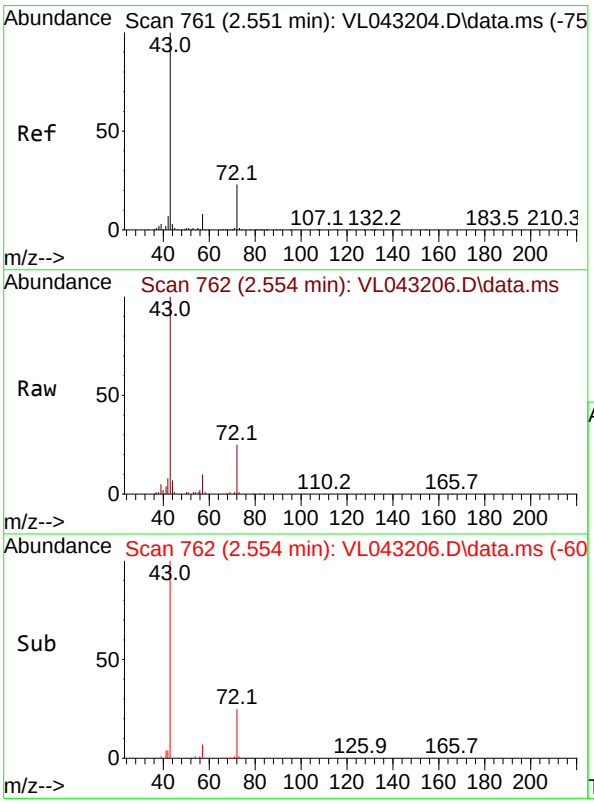
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:114 Resp: 278732

Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.0	31.6
88	18.6	14.9	22.3

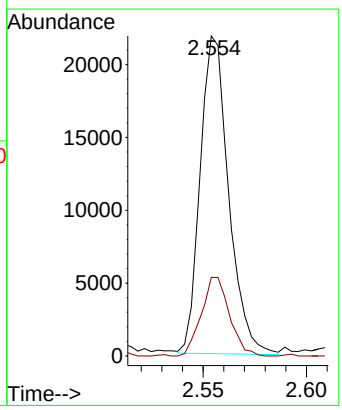


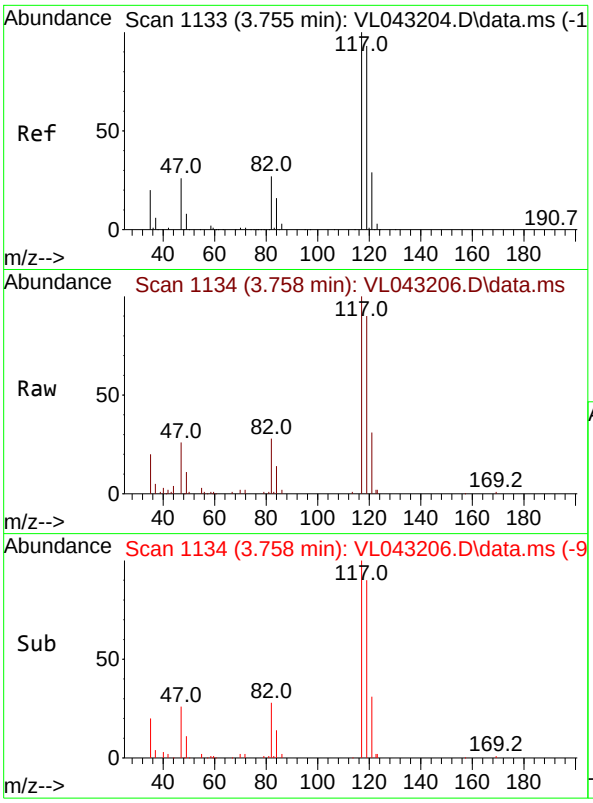


#34
2-Butanone
Concen: 1.064 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 20940

Ion	Ratio	Lower	Upper
43	100		
72	24.7	18.1	27.1



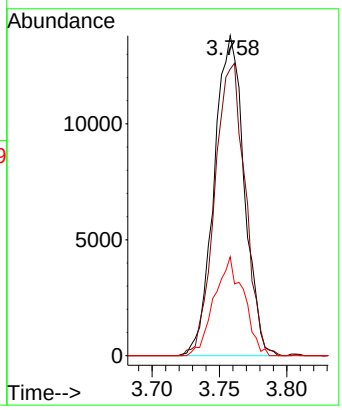


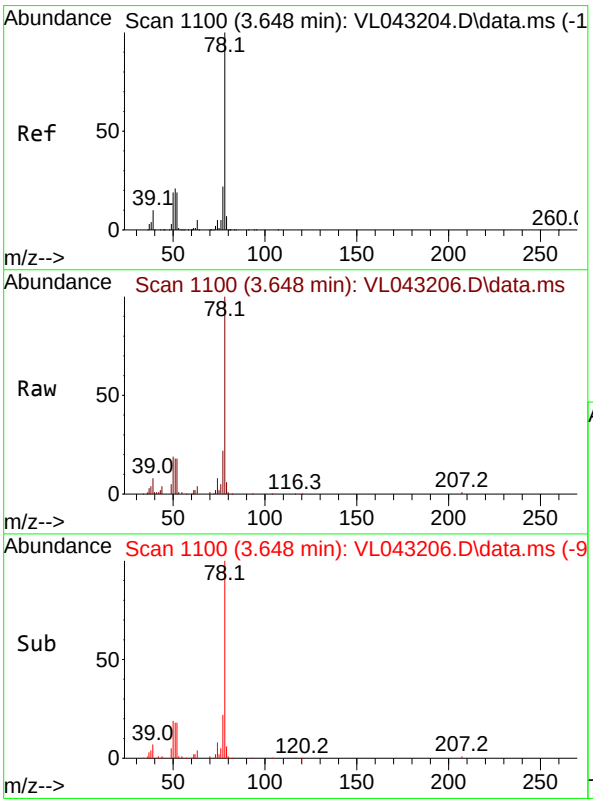
#35
Carbon Tetrachloride
Concen: 1.016 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 21497

Ion	Ratio	Lower	Upper
117	100		
119	89.6	74.6	112.0
121	30.9	23.2	34.8

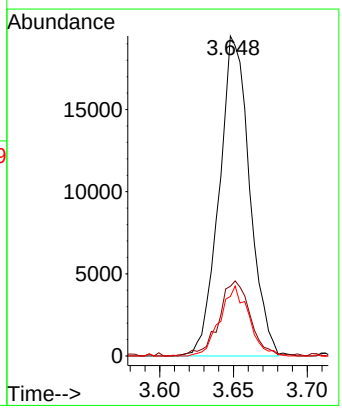


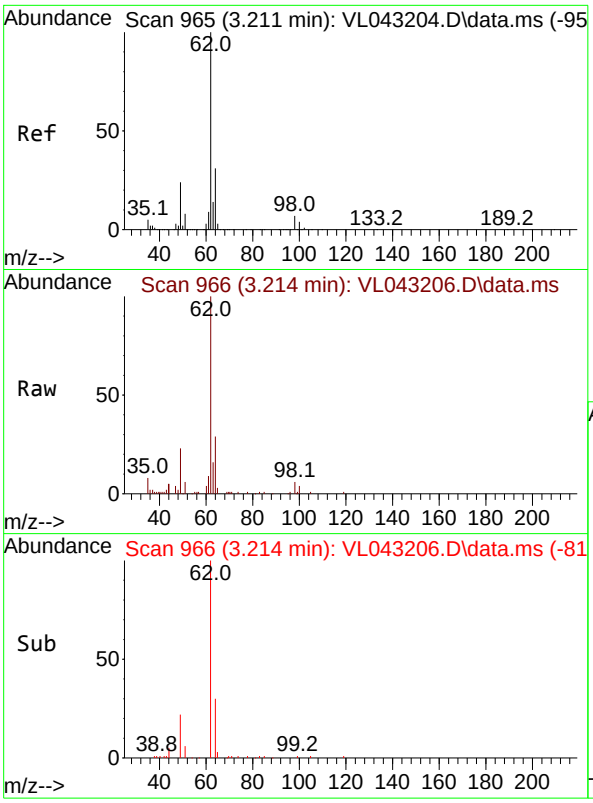


#36
Benzene
Concen: 1.046 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 78 Resp: 27911

Ion	Ratio	Lower	Upper
78	100		
77	21.5	17.5	26.3
50	18.6	15.5	23.3



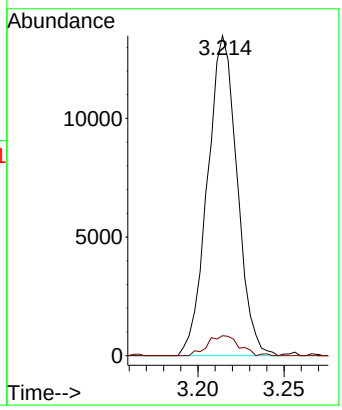


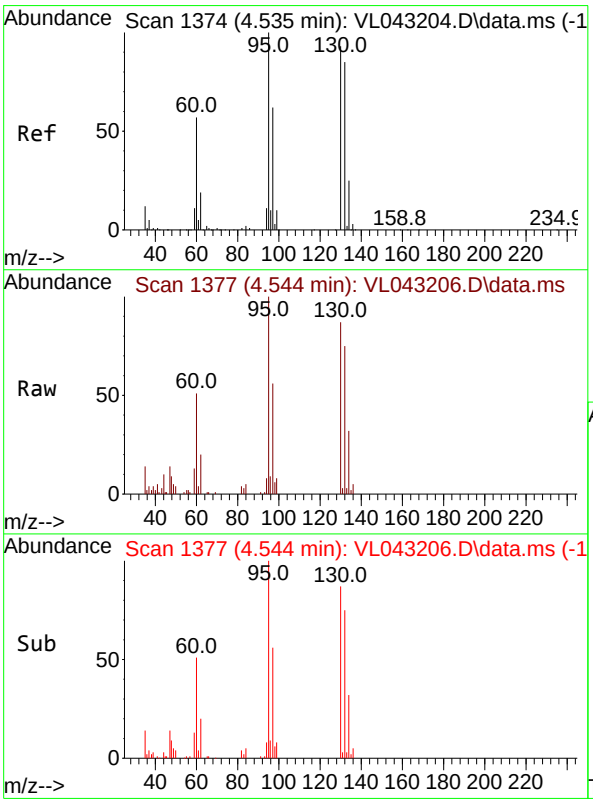
#37
1,2-Dichloroethane
Concen: 1.035 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 16159

Ion	Ratio	Lower	Upper
62	100		
98	6.7	5.5	8.3

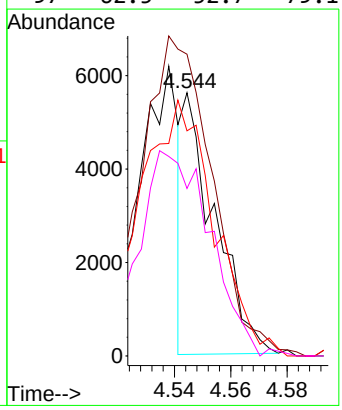


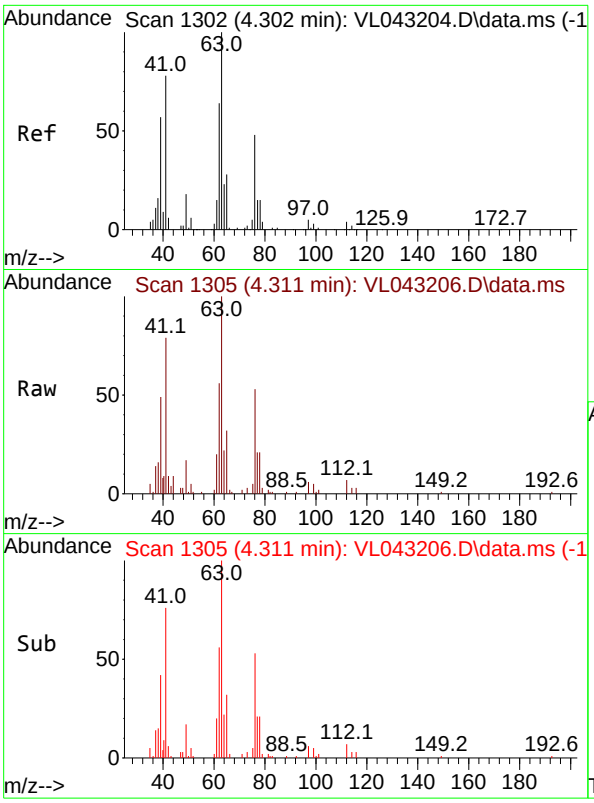


#38
Trichloroethene
Concen: 0.414 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:130 Resp: 4331

Ion	Ratio	Lower	Upper
130	100		
95	113.3	85.7	128.5
132	83.5	73.4	110.0
97	62.5	52.7	79.1



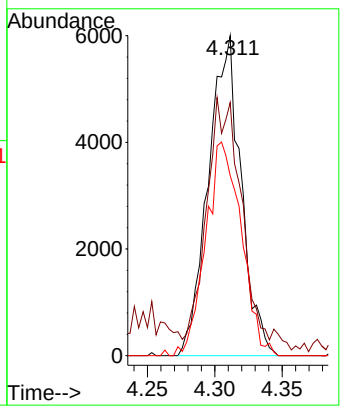


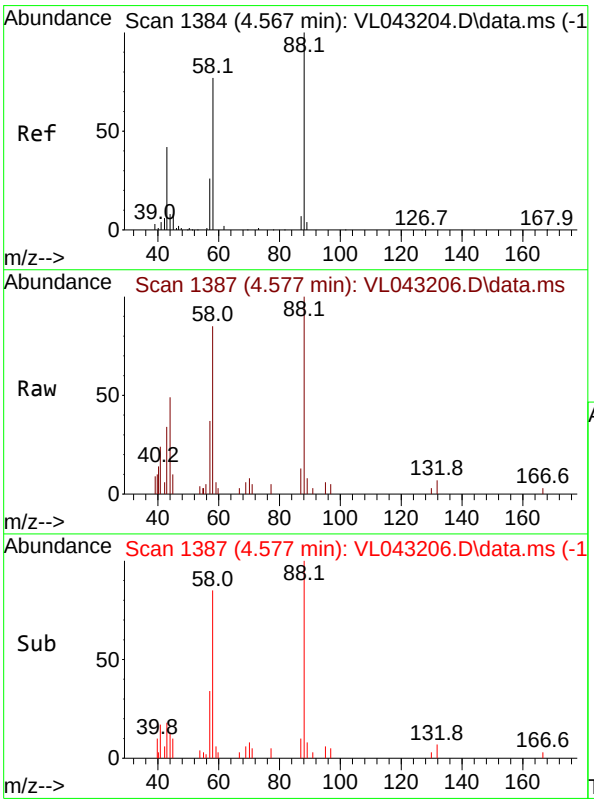
#39
1,2-Dichloropropane
Concen: 1.039 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 10147

Ion	Ratio	Lower	Upper
63	100		
41	70.5	62.6	93.8
62	56.2	51.0	76.6

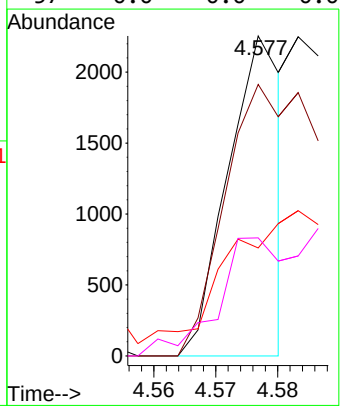


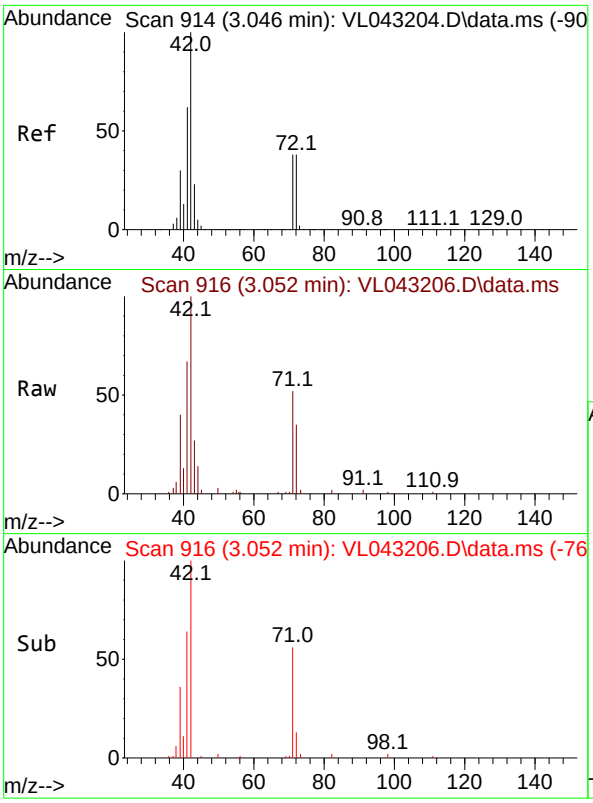


#40
1,4-Dioxane
Concen: 0.312 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 88 Resp: 1369

Ion	Ratio	Lower	Upper
88	100		
58	234.8	63.0	94.6#
43	0.0	32.5	48.7#
57	0.0	0.0	0.0



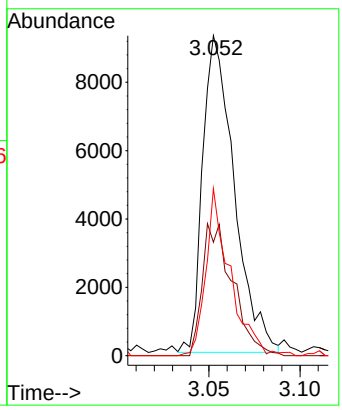


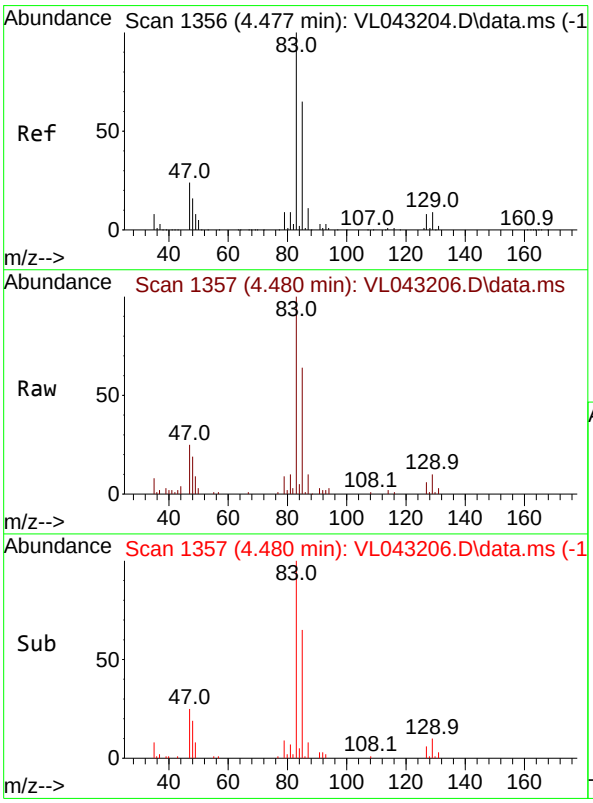
#41
Tetrahydrofuran
Concen: 1.029 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 11176

Ion	Ratio	Lower	Upper
42	100		
72	40.2	30.6	46.0
71	40.4	30.5	45.7

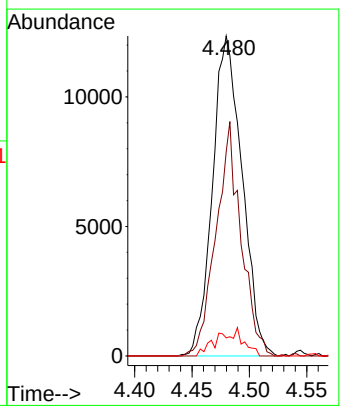


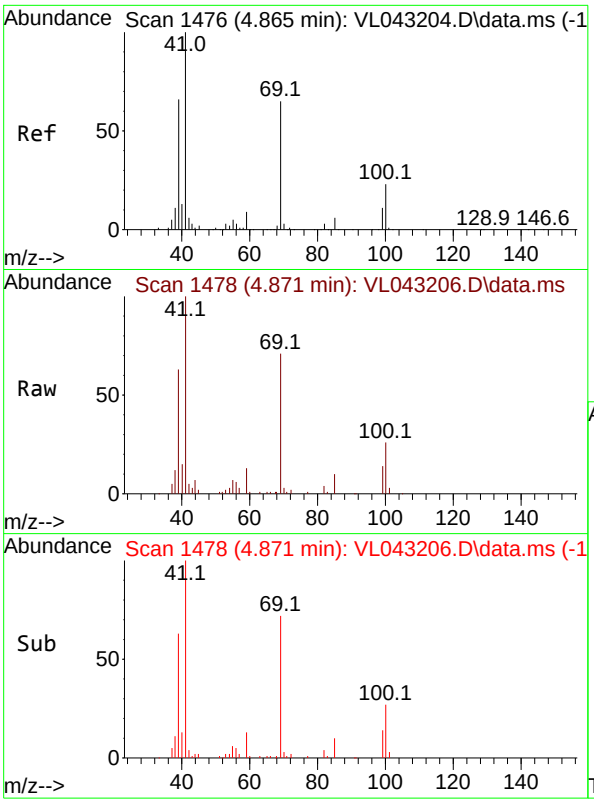


#42
Bromodichloromethane
Concen: 1.028 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 83 Resp: 22150

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.7	77.5
127	5.6	6.3	9.5#



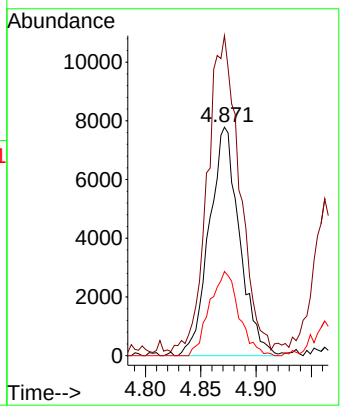


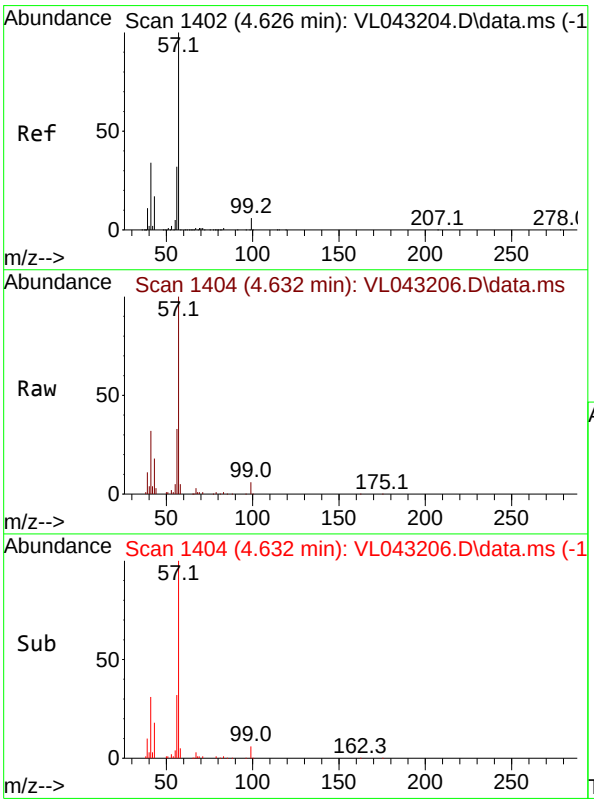
#43
Methyl Methacrylate
Concen: 1.046 ppbv
RT: 4.871 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 14821

Ion	Ratio	Lower	Upper
69	100		
41	148.1	126.7	190.1
100	35.7	28.6	43.0

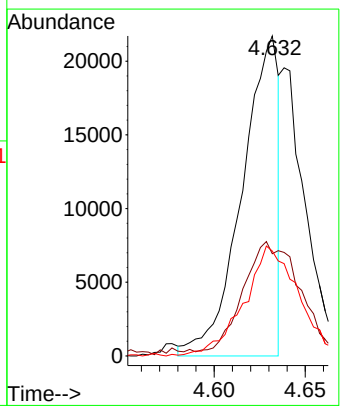


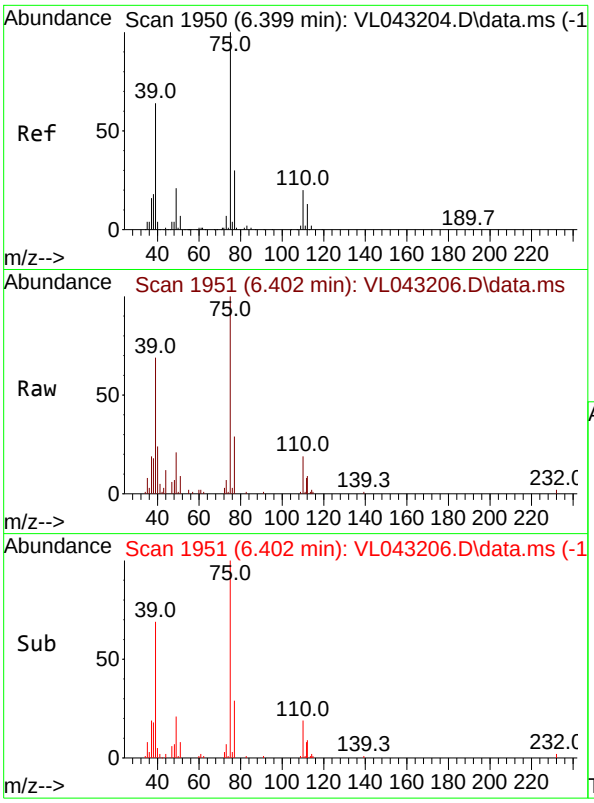


#44
2,2,4-Trimethylpentane
Concen: 0.662 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 57 Resp: 30372

Ion	Ratio	Lower	Upper
57	100		
41	61.1	28.0	42.0#
56	51.9	25.6	38.4#



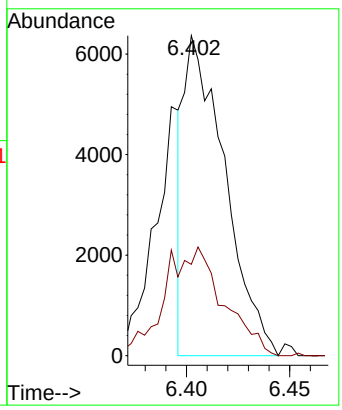


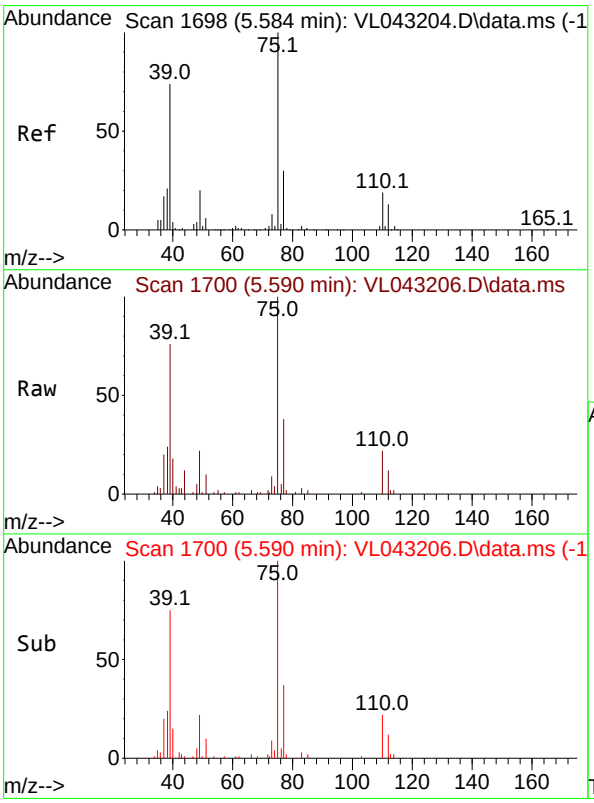
#45
t-1,3-Dichloropropene
Concen: 0.663 ppbv
RT: 6.402 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 8750

Ion	Ratio	Lower	Upper
75	100		
77	28.5	24.3	36.5

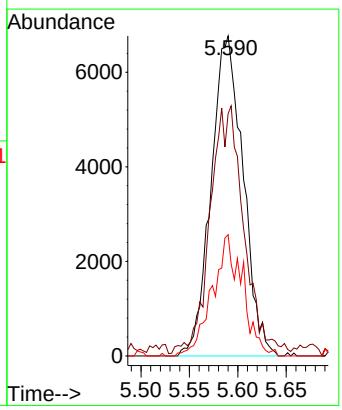


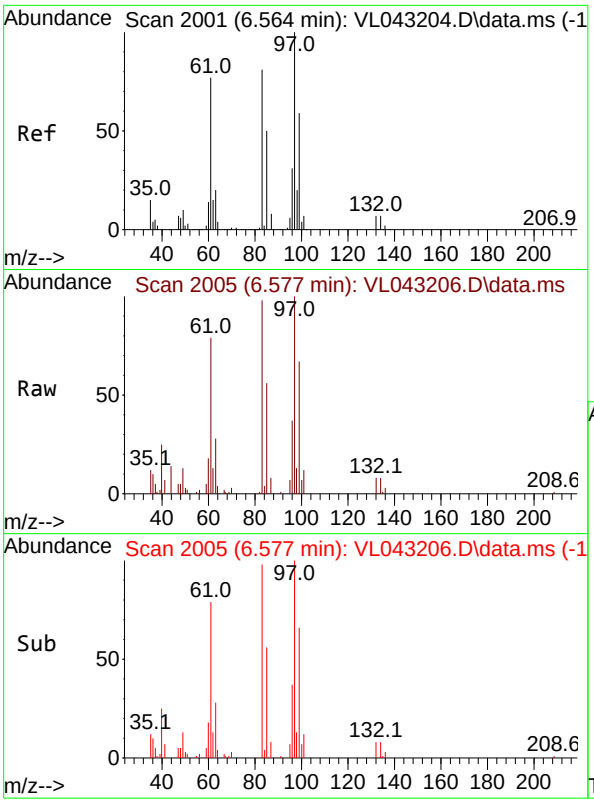


#46
cis-1,3-Dichloropropene
Concen: 1.001 ppbv
RT: 5.590 min Scan# 1700
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 75 Resp: 15527

Ion	Ratio	Lower	Upper
75	100		
39	72.5	59.1	88.7
77	37.9	24.2	36.2#



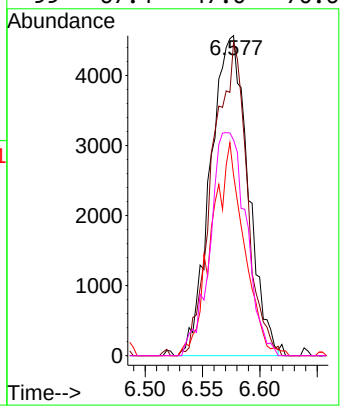


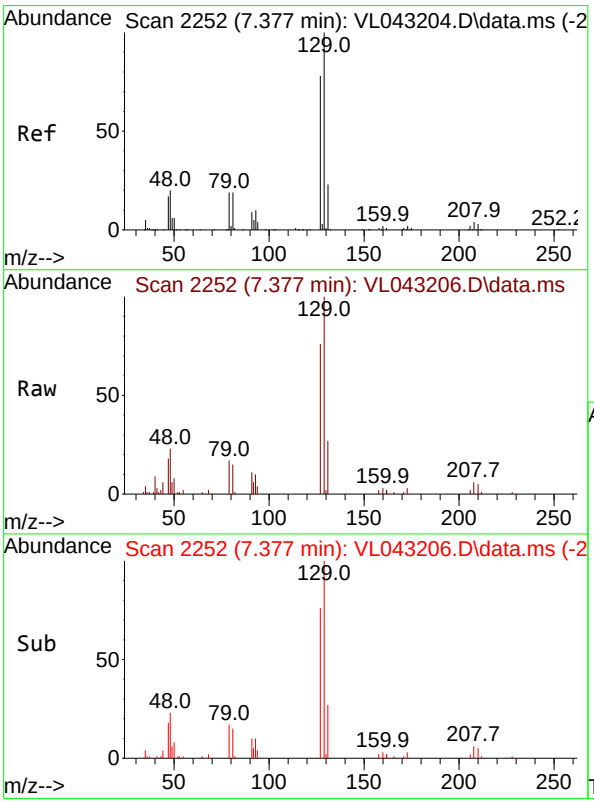
#47
1,1,2-Trichloroethane
Concen: 0.995 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 10369

Ion	Ratio	Lower	Upper
97	100		
83	97.9	64.6	97.0#
85	56.4	39.4	59.2
99	67.4	47.0	70.6

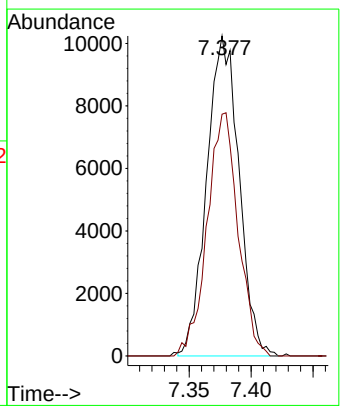


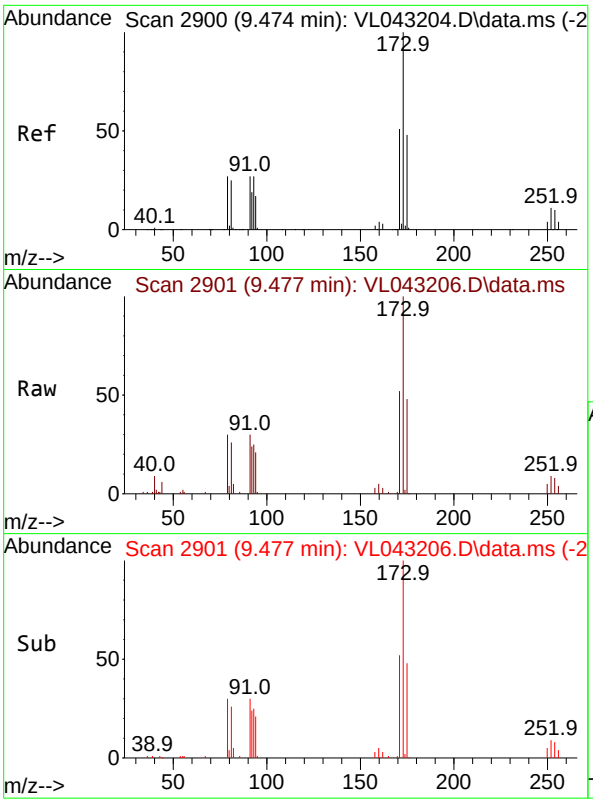


#48
Dibromochloromethane
Concen: 1.041 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:129 Resp: 18560

Ion	Ratio	Lower	Upper
129	100		
127	72.8	39.3	117.9



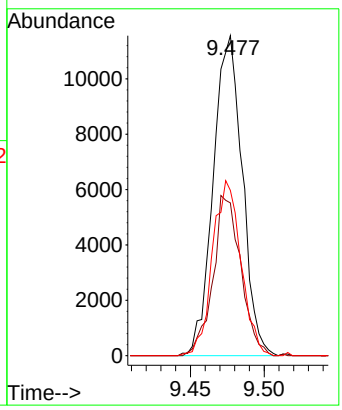


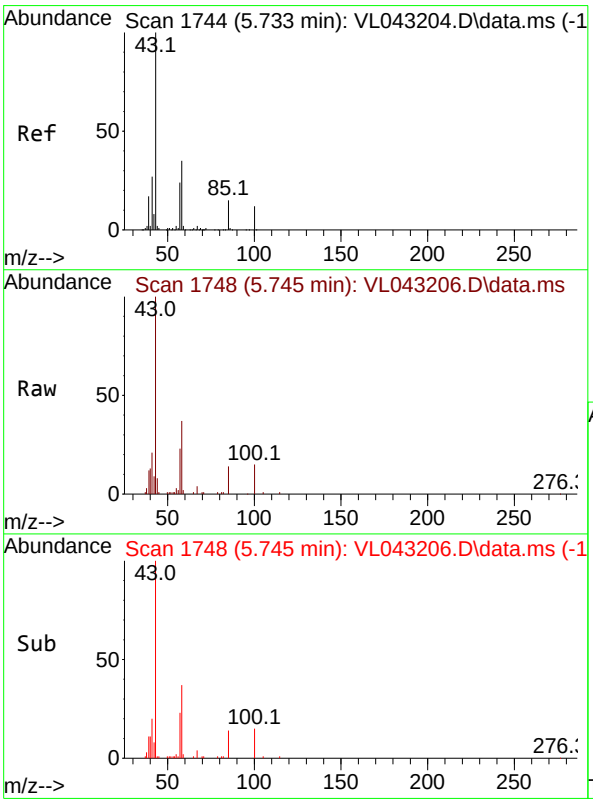
#49
Bromoform
Concen: 1.004 ppbv
RT: 9.477 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 15858

Ion	Ratio	Lower	Upper
173	100		
175	47.9	38.6	58.0
171	53.5	40.6	61.0

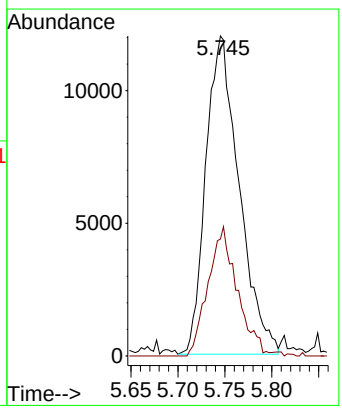


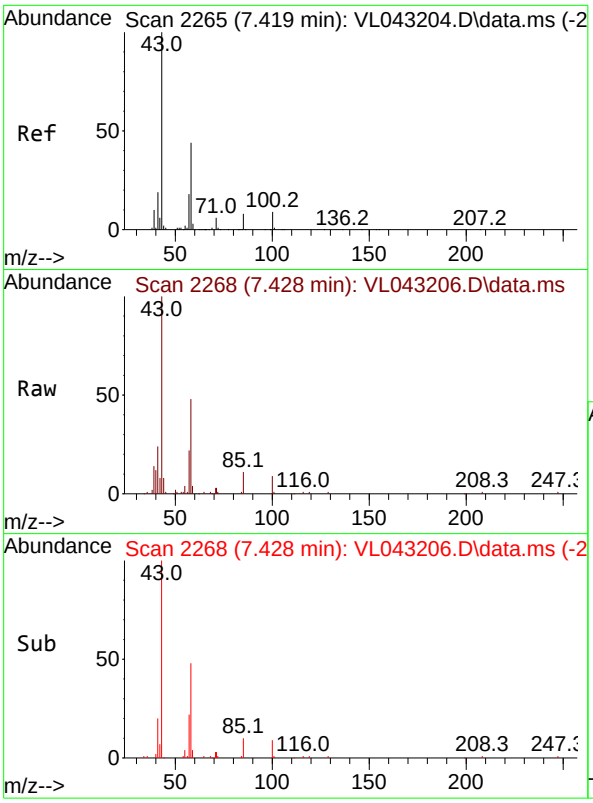


#50
4-Methyl-2-Pentanone
Concen: 1.067 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.013 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 43 Resp: 29560

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.4	42.6



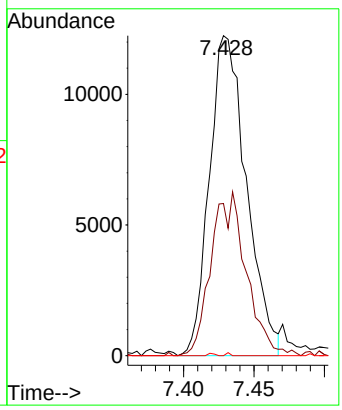


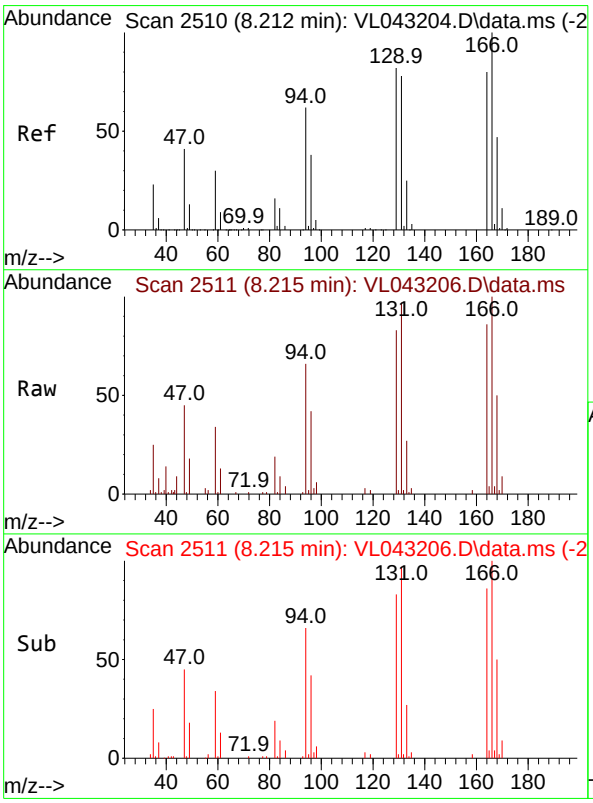
#51
2-Hexanone
Concen: 1.043 ppbv
RT: 7.428 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 22438

Ion	Ratio	Lower	Upper
43	100		
58	49.4	38.4	57.6
98	0.2	0.0	0.0#

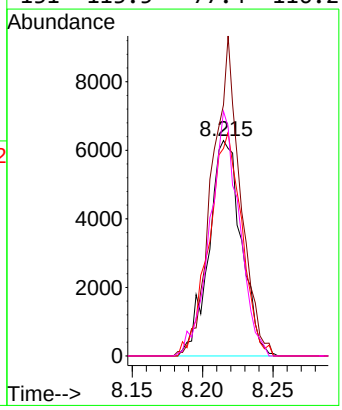


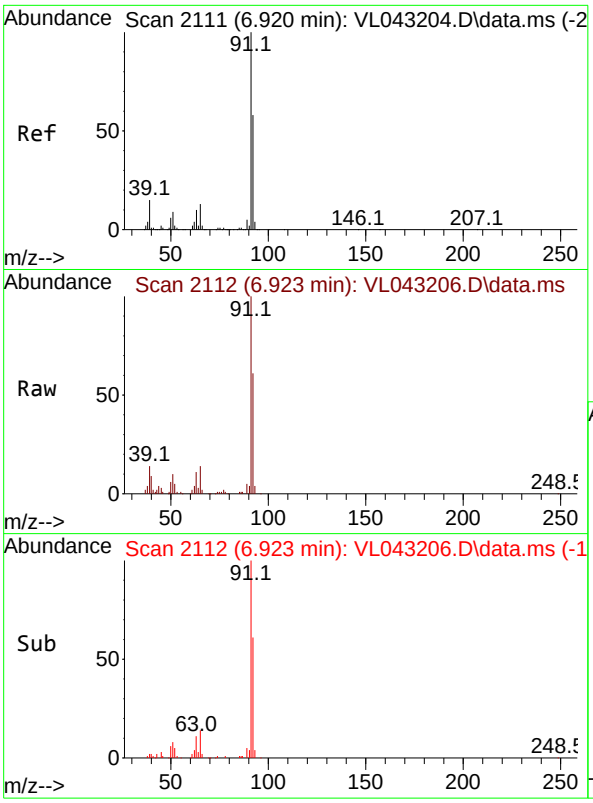


#52
Tetrachloroethene
Concen: 1.015 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:164 Resp: 10080

Ion	Ratio	Lower	Upper
164	100		
166	116.5	99.4	149.2
129	96.3	81.8	122.8
131	113.5	77.4	116.2



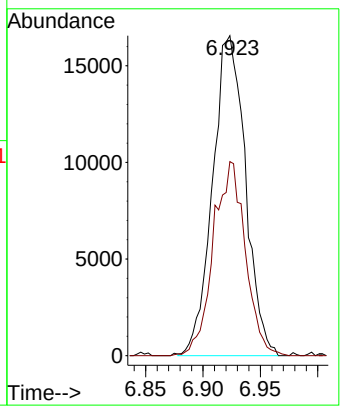


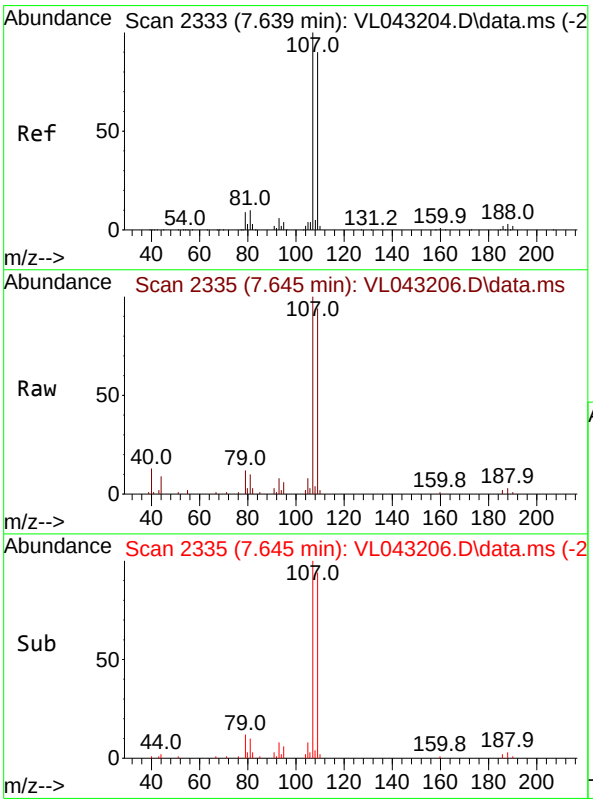
#53
Toluene
Concen: 1.036 ppbv
RT: 6.923 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 32951

Ion	Ratio	Lower	Upper
91	100		
92	59.0	47.4	71.0

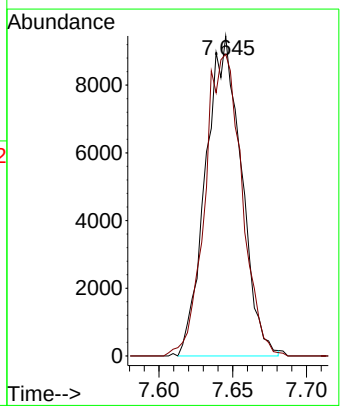


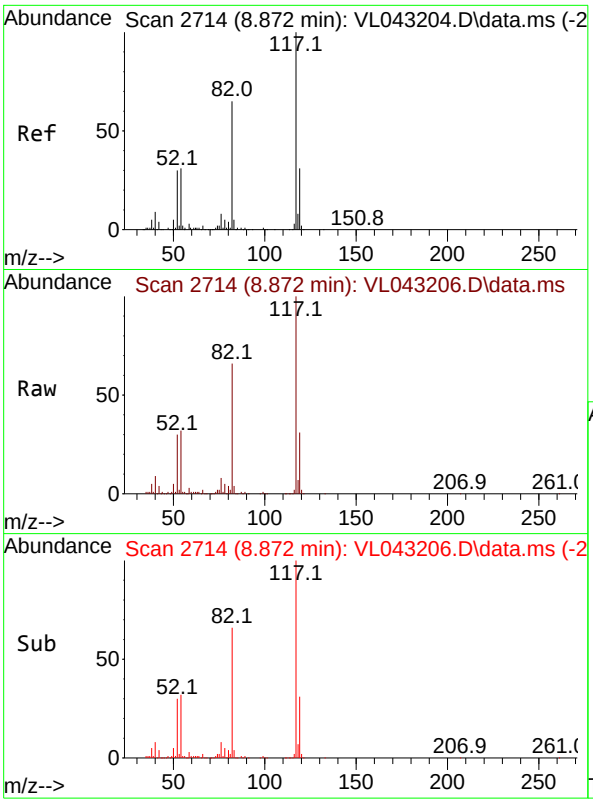


#54
1,2-Dibromoethane
Concen: 1.040 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:107 Resp: 15865

Ion	Ratio	Lower	Upper
107	100		
109	93.3	72.1	108.1



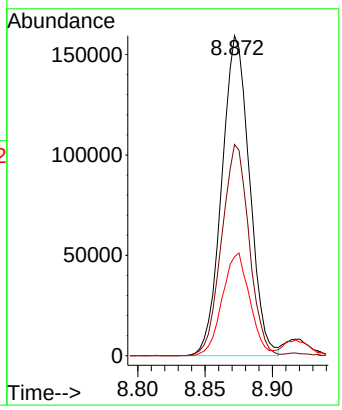


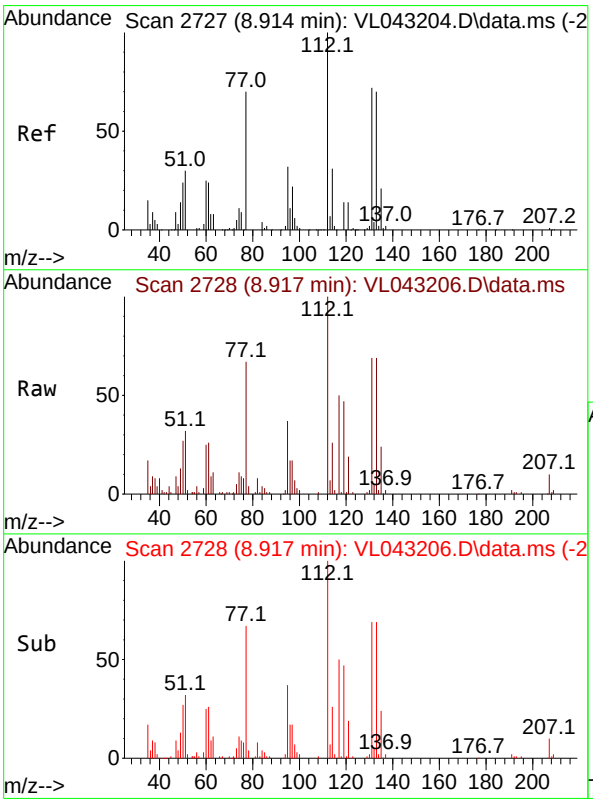
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 227998

Ion	Ratio	Lower	Upper
117	100		
82	66.2	56.1	84.1
119	32.1	25.0	37.6

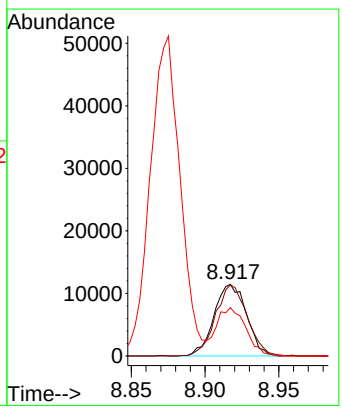


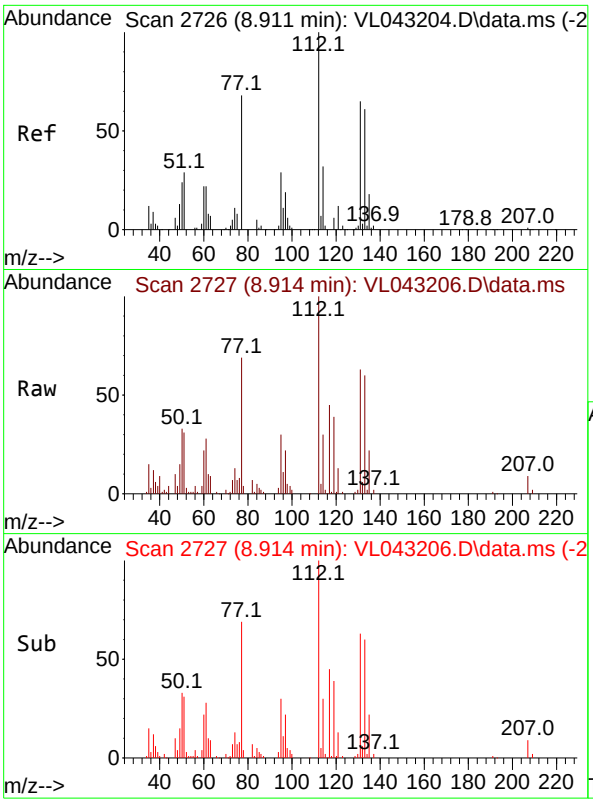


#56
1,1,1,2-Tetrachloroethane
Concen: 1.046 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:131 Resp: 17535

Ion	Ratio	Lower	Upper
131	100		
133	97.3	77.4	116.2
119	60.6	49.1	73.7



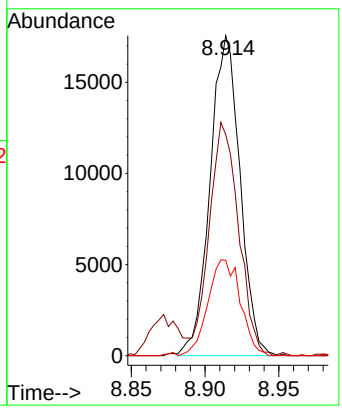


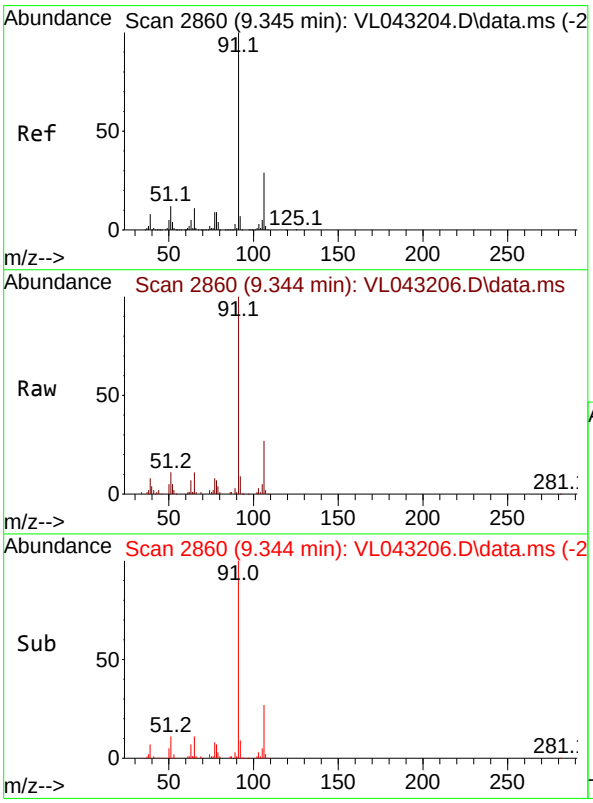
#57
Chlorobenzene
Concen: 1.060 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 24806

Ion	Ratio	Lower	Upper
112	100		
77	68.6	55.5	83.3
114	29.8	29.1	35.5

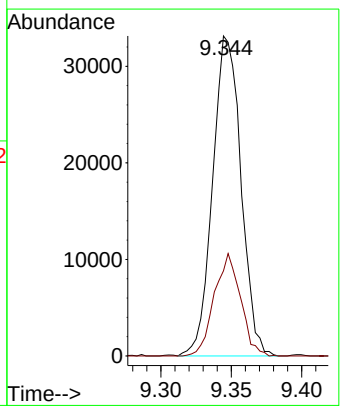


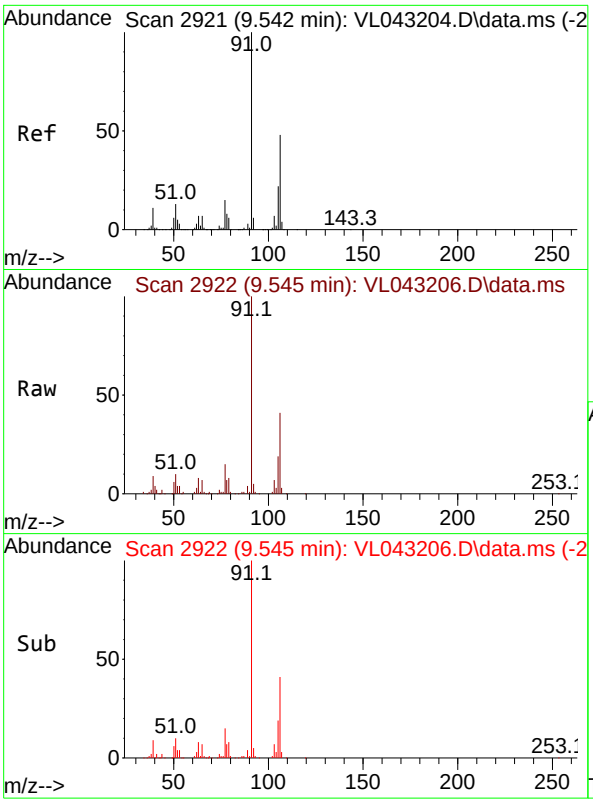


#58
Ethyl Benzene
Concen: 1.059 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 46455

Ion	Ratio	Lower	Upper
91	100		
106	26.6	22.8	34.2



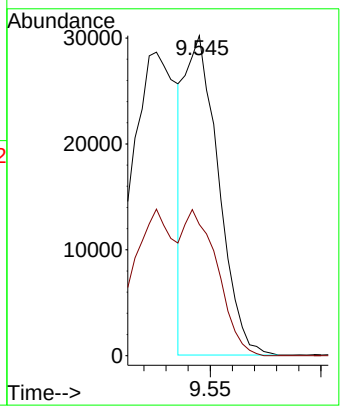


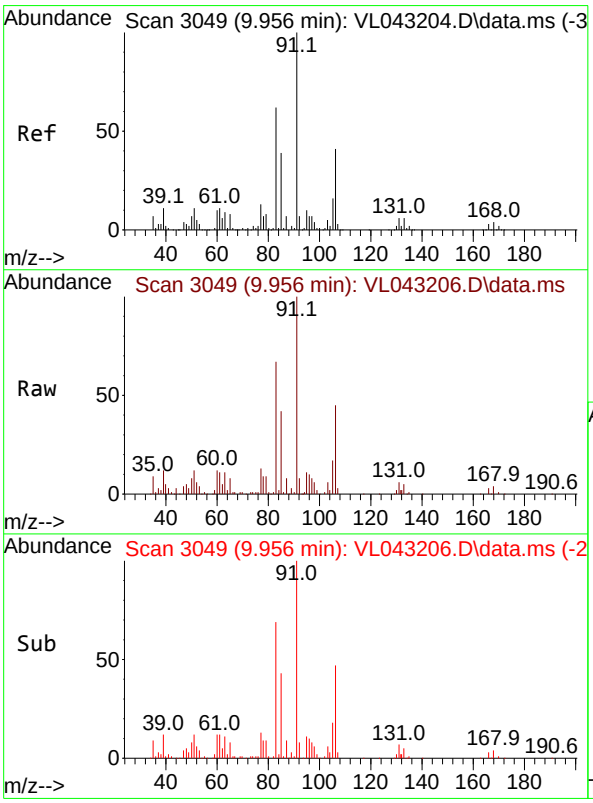
#59
m/p-Xylene
Concen: 0.911 ppbv
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 32159

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

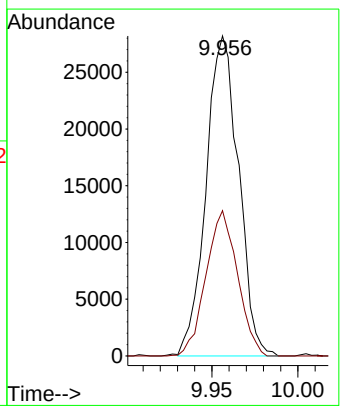


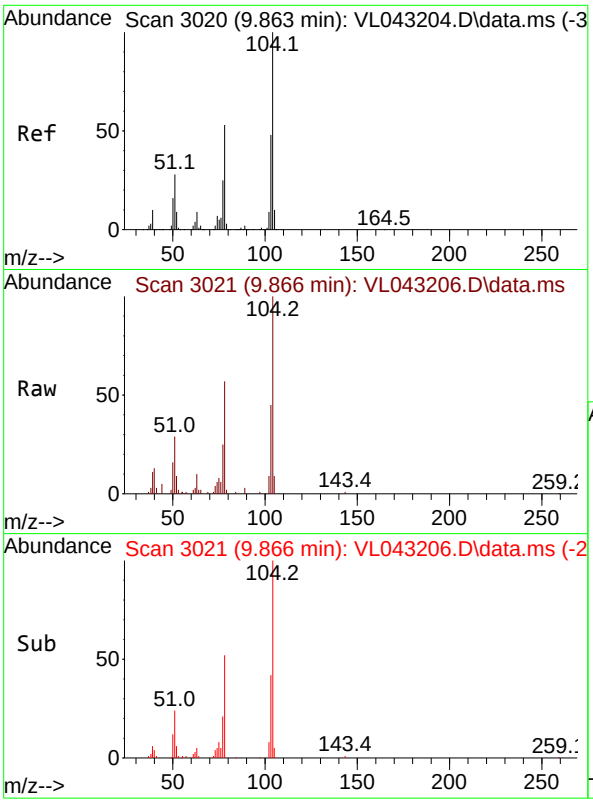


#60
o-Xylene
Concen: 1.054 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 37054

Ion	Ratio	Lower	Upper
91	100		
106	44.1	20.9	62.8



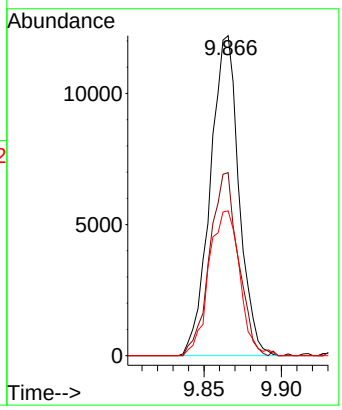


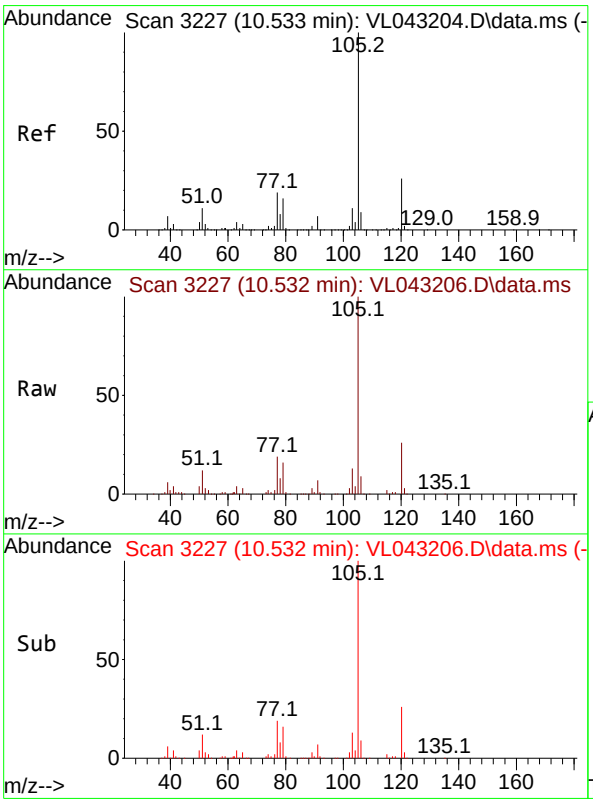
#61
Styrene
Concen: 1.023 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:104 Resp: 15730

Ion	Ratio	Lower	Upper
104	100		
78	56.9	42.1	63.1
103	48.6	37.2	55.8

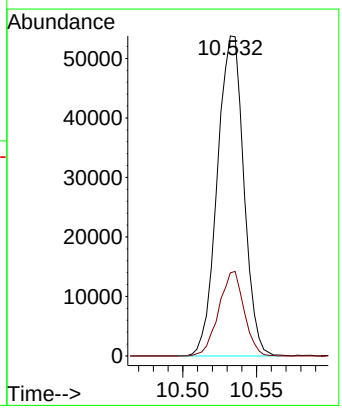


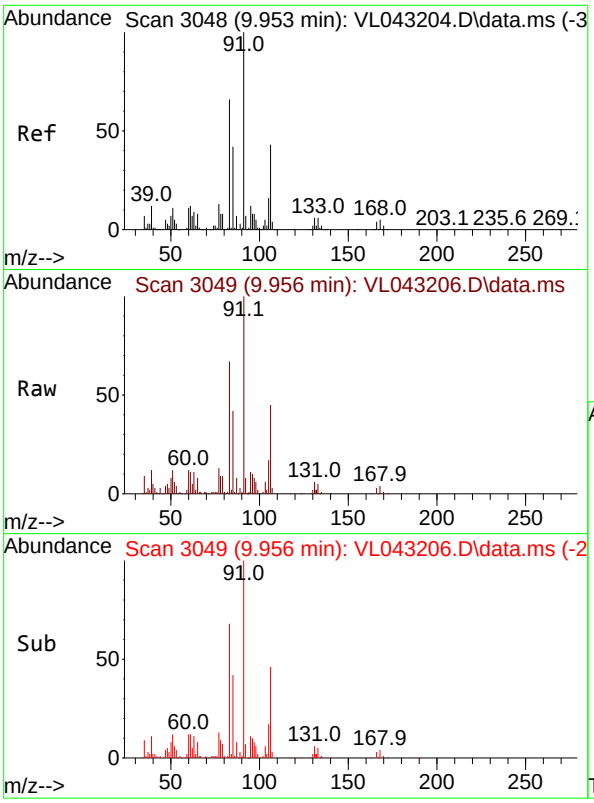


#62
Isopropylbenzene
Concen: 1.068 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:105 Resp: 67163

Ion	Ratio	Lower	Upper
105	100		
120	25.2	19.8	29.8



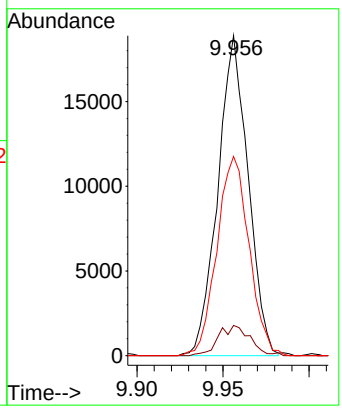


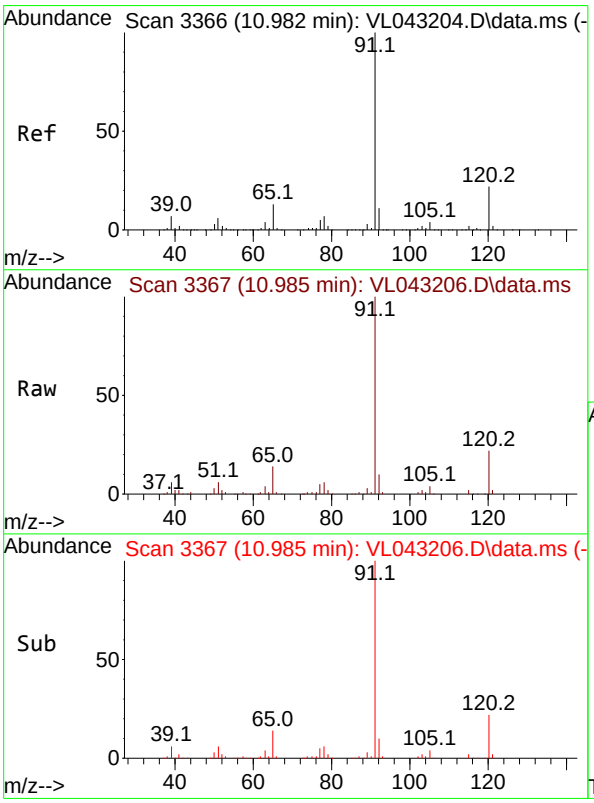
#63
1,1,2,2-Tetrachloroethane
Concen: 1.035 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 23083

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.3
85	66.2	31.9	95.9

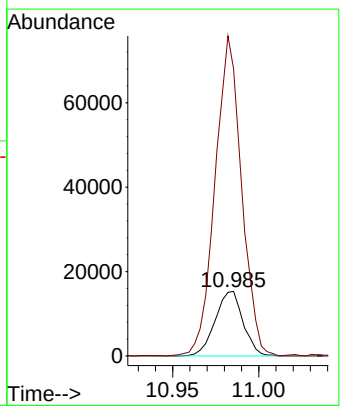


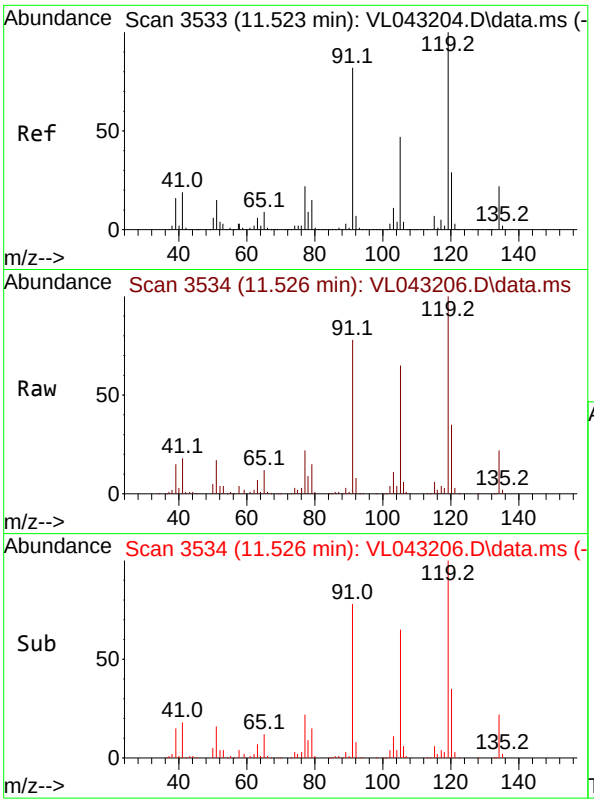


#64
n-propylbenzene
Concen: 1.070 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:120 Resp: 17289

Ion	Ratio	Lower	Upper
120	100		
91	471.4	377.1	565.7



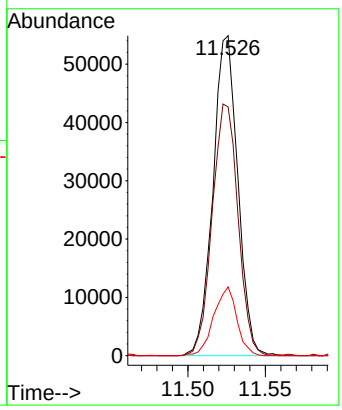


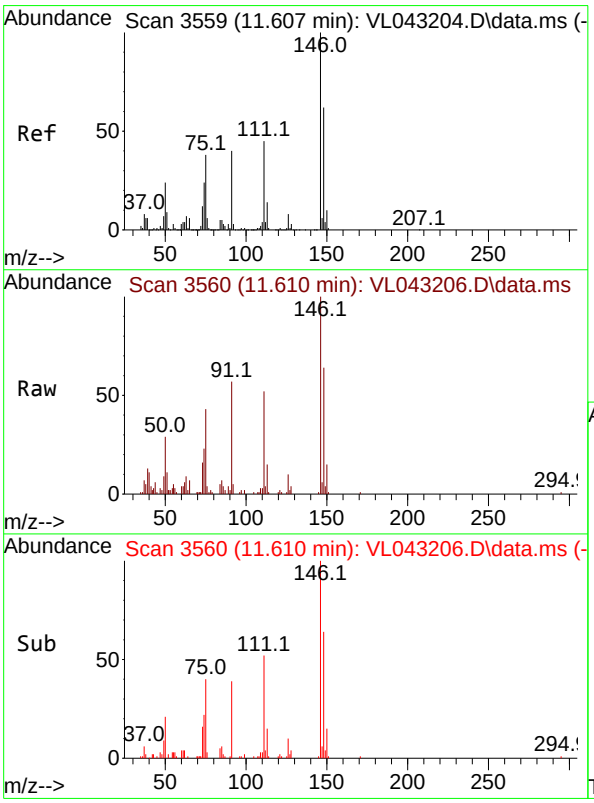
#65
tert-Butylbenzene
Concen: 1.091 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 61258

Ion	Ratio	Lower	Upper
119	100		
91	81.7	65.3	97.9
134	20.0	17.0	25.4

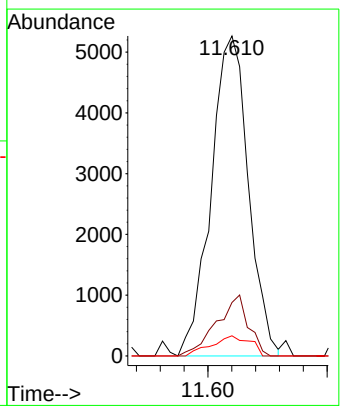


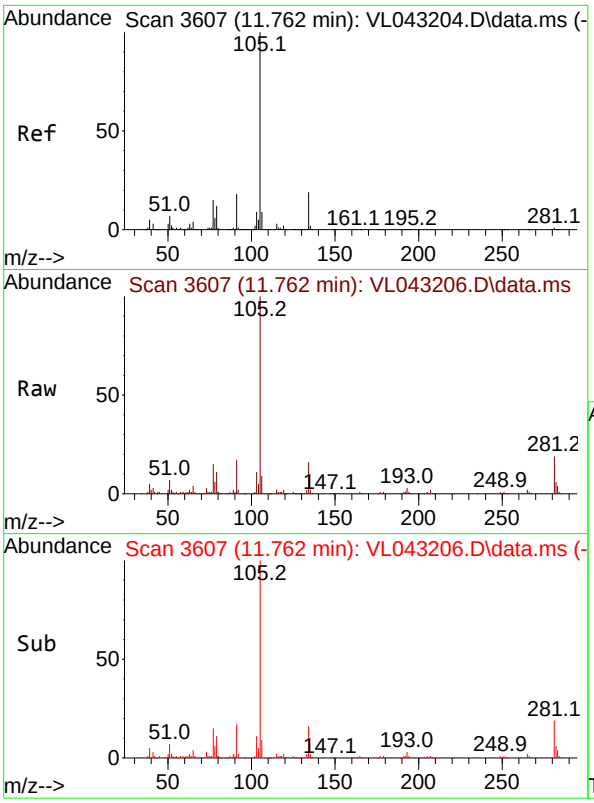


#66
Benzyl Chloride
Concen: 1.005 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 5729

Ion	Ratio	Lower	Upper
91	100		
126	16.3	14.4	21.6
128	6.5	4.6	6.8



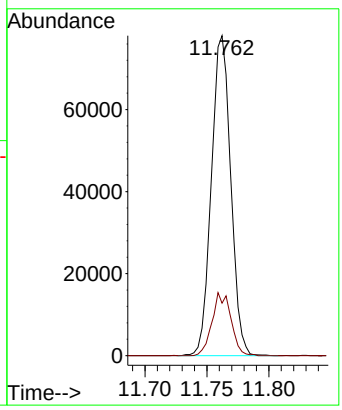


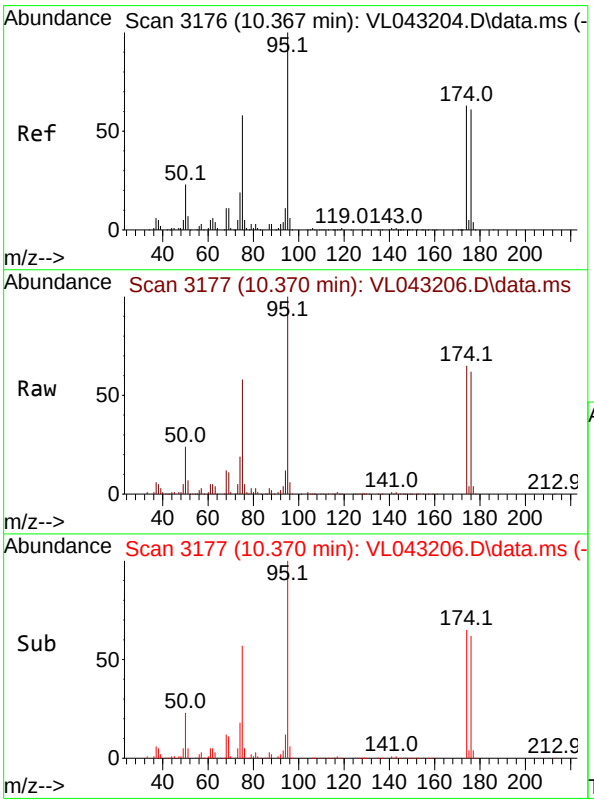
#67
sec-Butylbenzene
Concen: 1.084 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 84989

Ion	Ratio	Lower	Upper
105	100		
134	19.3	15.0	22.6

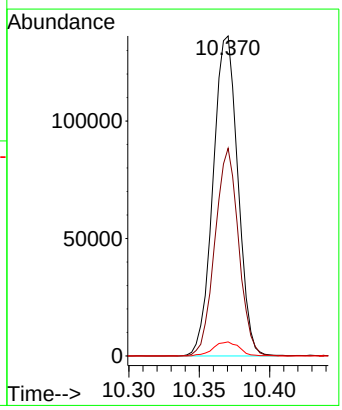


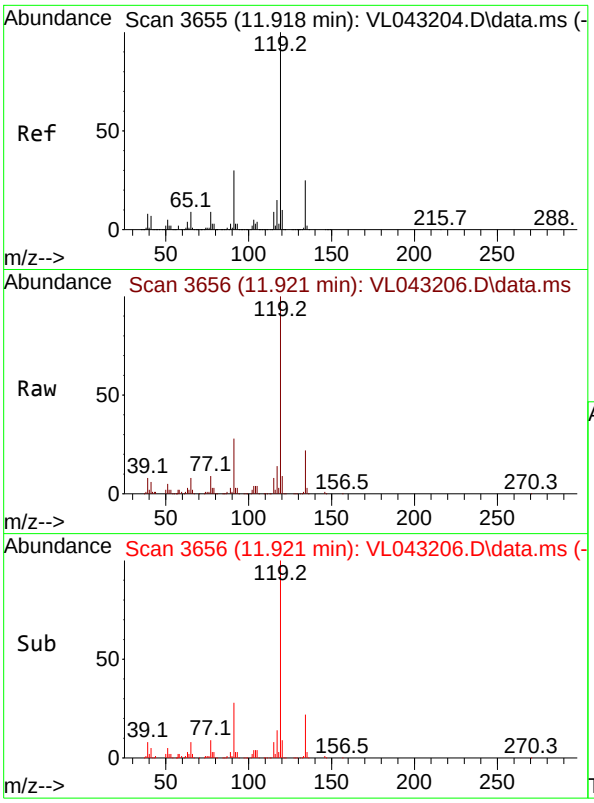


#68
1-Bromo-4-Fluorobenzene
Concen: 9.996 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 95 Resp: 167061

Ion	Ratio	Lower	Upper
95	100		
174	62.1	50.2	75.2
175	4.6	4.1	6.1



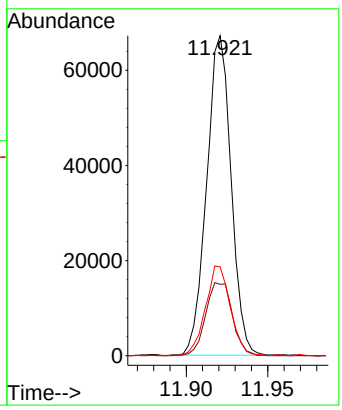


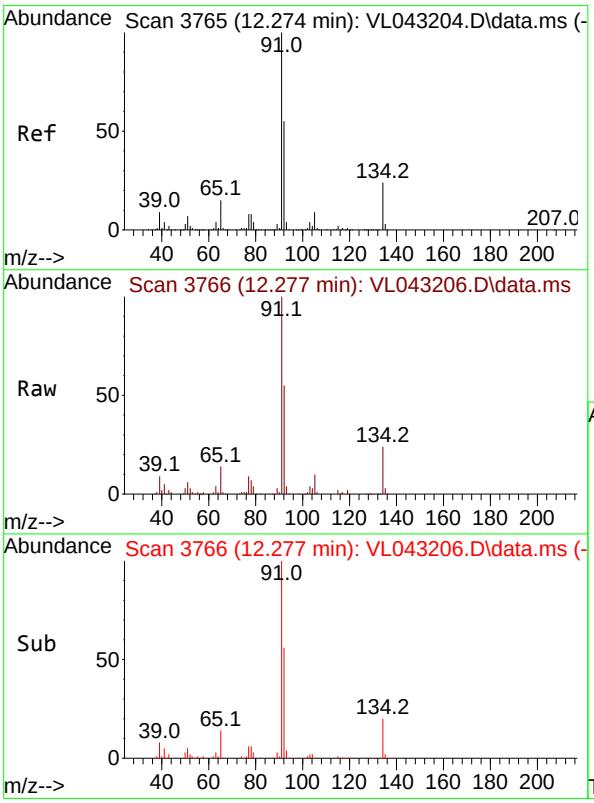
#69
p-Isopropyltoluene
Concen: 1.054 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 69993

Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.2	30.2
91	28.9	23.8	35.8

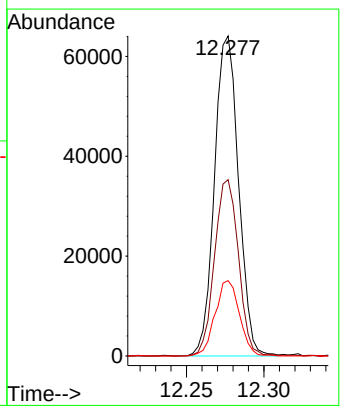


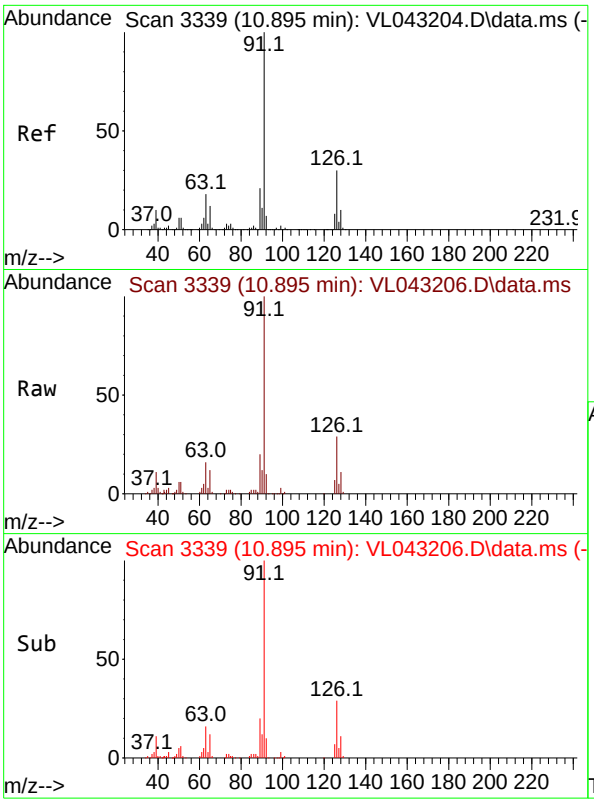


#70
n-Butylbenzene
Concen: 1.076 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion: 91 Resp: 69323

Ion	Ratio	Lower	Upper
91	100		
92	55.0	43.5	65.3
134	23.8	19.0	28.6



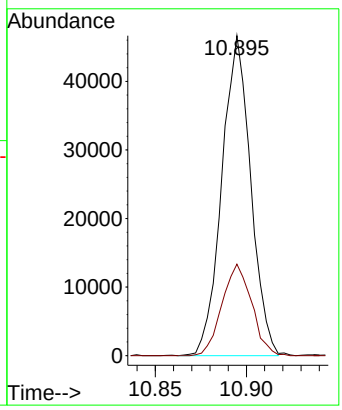


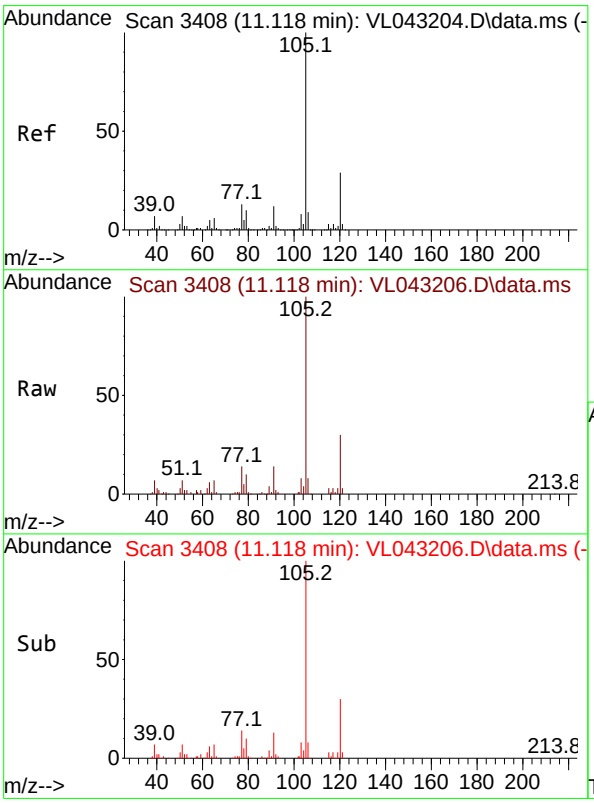
#71
2-Chlorotoluene
Concen: 1.065 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 51452

Ion	Ratio	Lower	Upper
91	100		
126	29.3	11.7	46.7

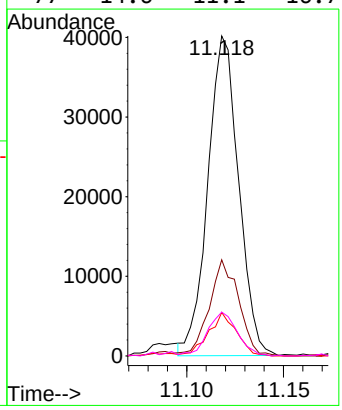


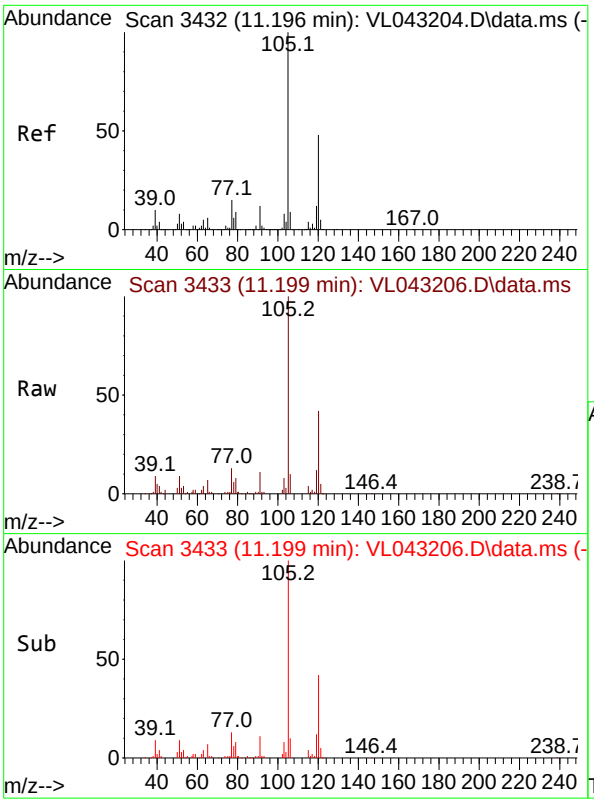


#72
4-Ethyltoluene
Concen: 1.037 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:105 Resp: 44403

Ion	Ratio	Lower	Upper
105	100		
120	29.8	23.8	35.8
91	13.2	10.3	15.5
77	14.6	11.1	16.7



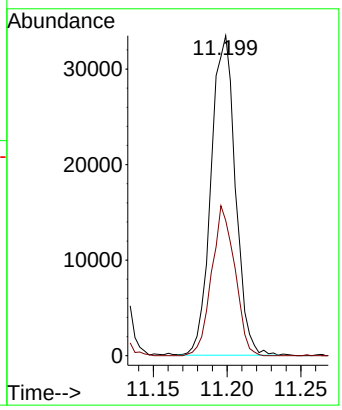


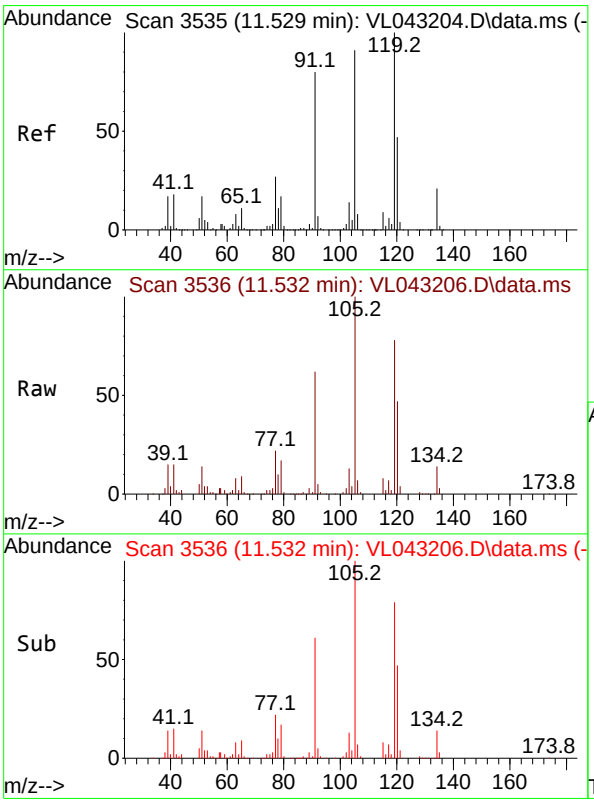
#73
1,3,5-Trimethylbenzene
Concen: 1.068 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 38350

Ion	Ratio	Lower	Upper
105	100		
120	42.3	38.6	57.8

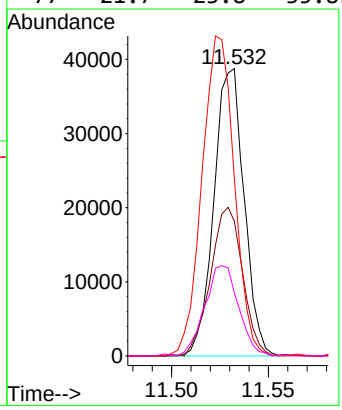


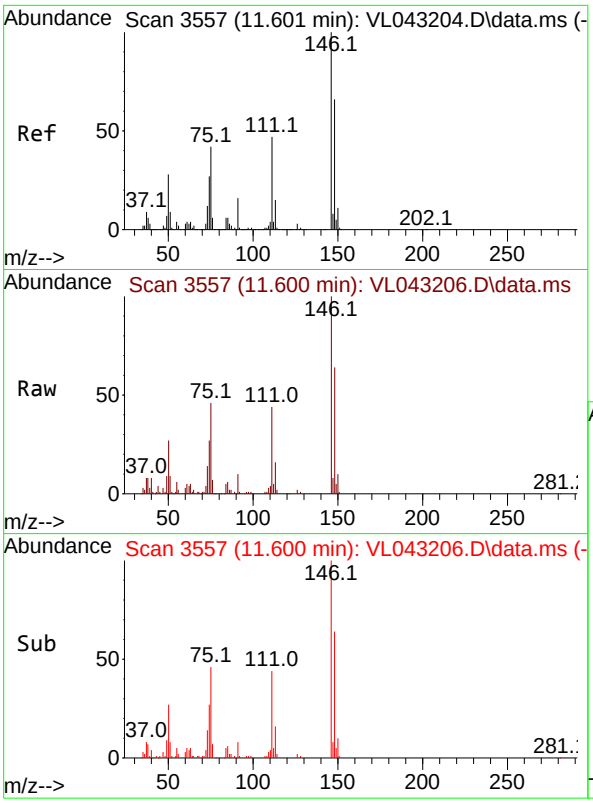


#74
1,2,4-Trimethylbenzene
Concen: 1.073 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:105 Resp: 42051

Ion	Ratio	Lower	Upper
105	100		
120	46.8	41.7	62.5
91	61.4	70.0	105.0#
77	21.7	23.8	35.8#



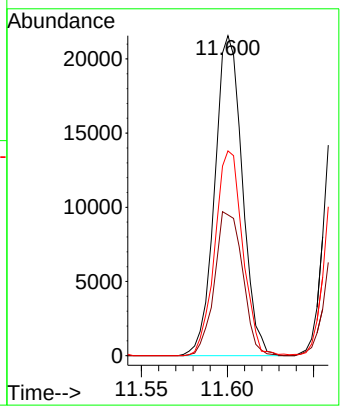


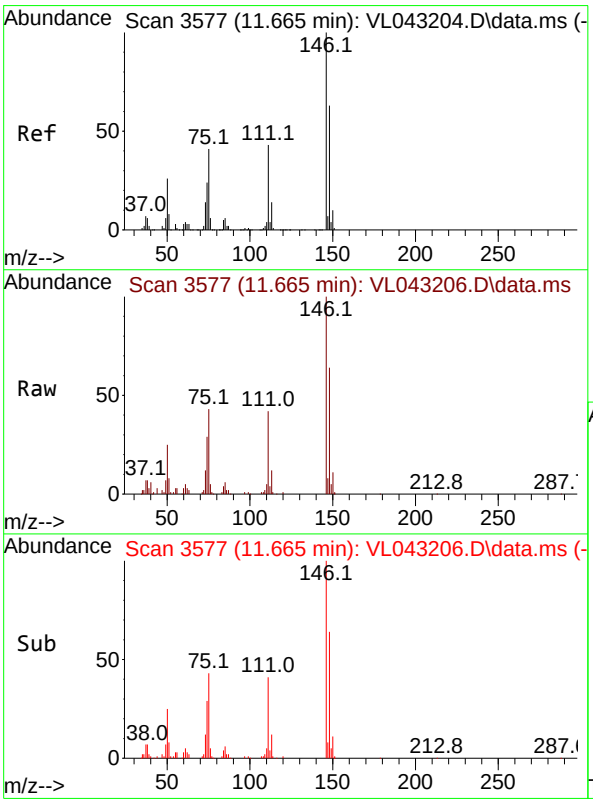
#75
1,3-Dichlorobenzene
Concen: 1.050 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 24011

Ion	Ratio	Lower	Upper
146	100		
111	45.9	23.4	70.3
148	64.7	31.6	95.0

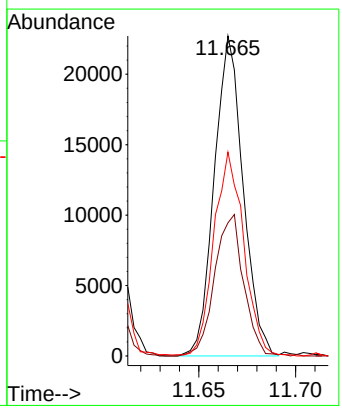


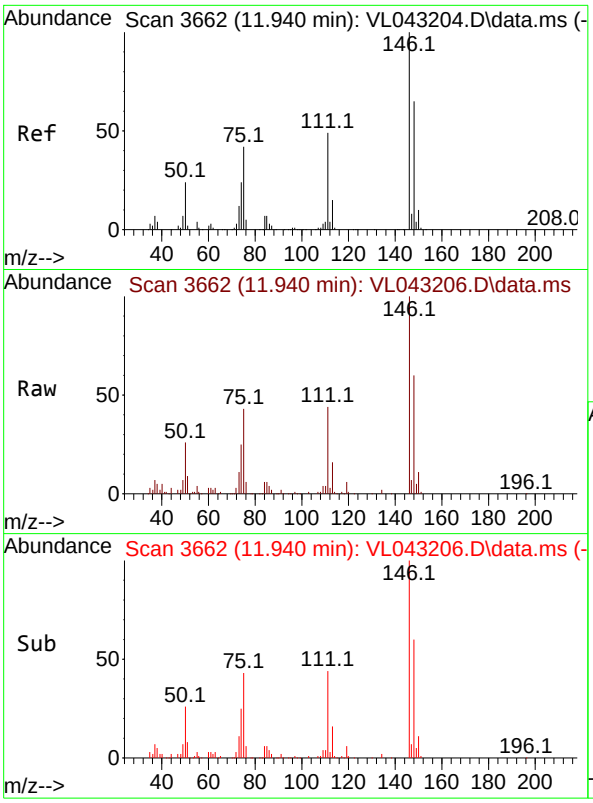


#76
1,4-Dichlorobenzene
Concen: 1.029 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:146 Resp: 23543

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.8	68.3
148	66.4	31.8	95.4



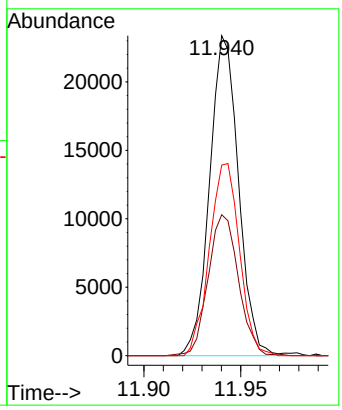


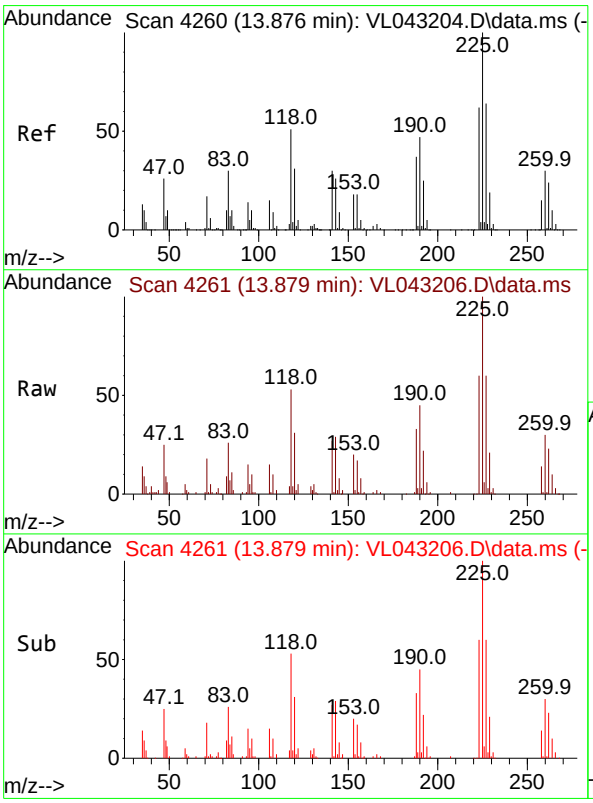
#77
1,2-Dichlorobenzene
Concen: 1.103 ppbv
RT: 11.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 24248

Ion	Ratio	Lower	Upper
146	100		
111	46.3	24.3	73.0
148	62.3	31.6	94.7

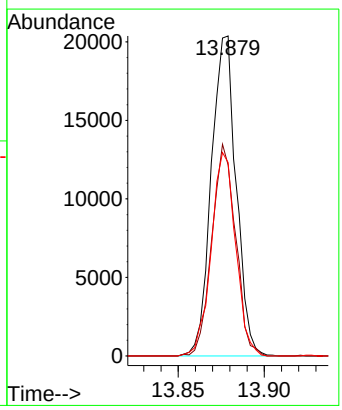


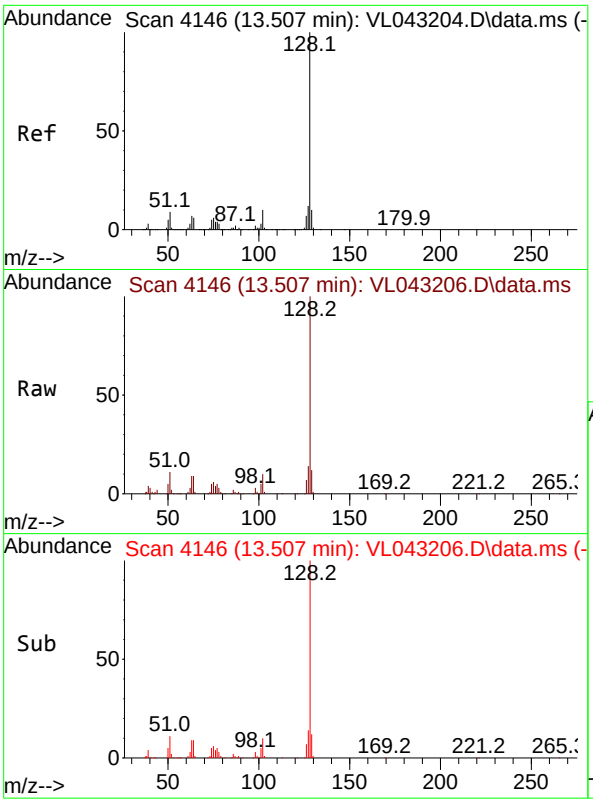


#78
Hexachloro-1,3-Butadiene
Concen: 1.116 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:225 Resp: 20489

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.2	75.4
227	62.5	51.1	76.7



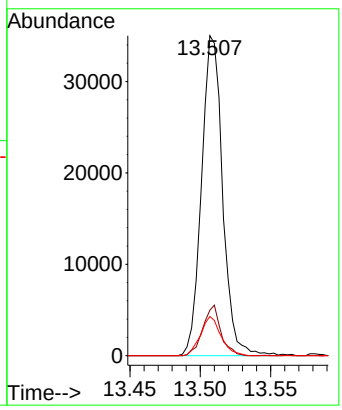


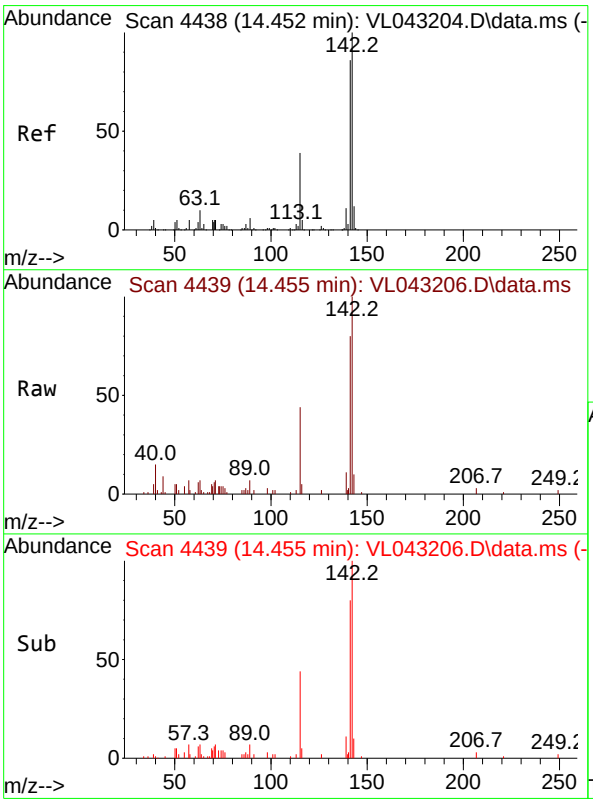
#79
Naphthalene
Concen: 1.047 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 36462

Ion	Ratio	Lower	Upper
128	100		
127	14.2	9.9	14.9
129	12.2	8.4	12.6

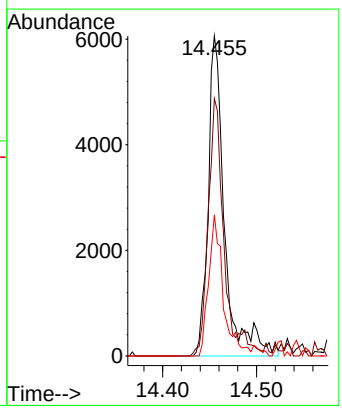


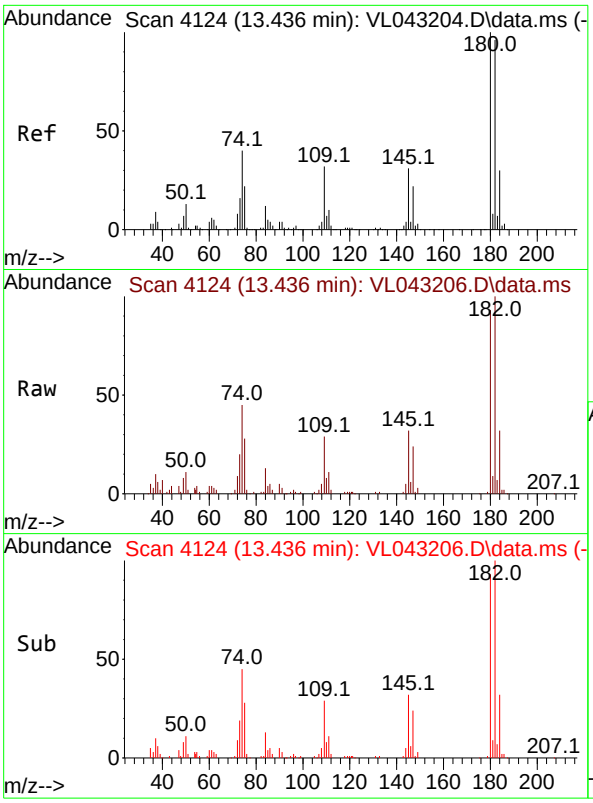


#80
Naphthalene,2-methyl-
Concen: 0.807 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Tgt Ion:142 Resp: 7375

Ion	Ratio	Lower	Upper
142	100		
141	77.8	67.1	100.7
115	40.8	31.9	47.9



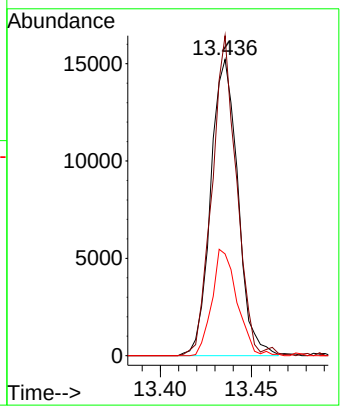


#81
1,2,4-Trichlorobenzene
Concen: 1.014 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043206.D
Acq: 18 Nov 2025 11:10

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 15785

Ion	Ratio	Lower	Upper
180	100		
182	98.2	77.4	116.2
184	33.4	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043208.D
Acq On : 18 Nov 2025 12:16
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Nov 19 00:51:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	101366	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	273996	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	222034	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	160968	9.890	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.554	85	1358	0.095	ppbv	99
3) Chlorodifluoromethane	1.476	51	1436	0.102	ppbv #	52
4) Chloromethane	1.534	50	638	0.119	ppbv #	82
5) Vinyl Chloride	1.580	62	664	0.114	ppbv	97
6) Bromomethane	1.667	94	352	0.124	ppbv	88
7) Chloroethane	1.706	64	275	0.121	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	1358	0.114	ppbv #	78
9) Propene	1.486	41	811	0.124	ppbv #	1
10) Heptane	4.972	43	480	0.027	ppbv #	1
11) Trichlorofluoromethane	1.877	101	1744	0.126	ppbv	87
12) 1,1,2-Trichlorotrifluo...	2.140	101	1249	0.115	ppbv	98
13) Ethanol	1.887	45	1141	0.543	ppbv	75
14) Bromoethene	1.780	108	456	0.110	ppbv #	71
15) Acetone	1.835	43	2574	0.183	ppbv	96
16) 1,3-Butadiene	1.609	39	1049	0.167	ppbv #	57
17) tert-Butyl alcohol	2.039	59	2464	0.133	ppbv #	30
18) 1,1-Dichloroethene	2.033	96	620	0.123	ppbv	81
19) Isopropyl Alcohol	1.887	45	1141	0.143	ppbv #	55
20) Methylene Chloride	2.062	84	3550	0.077	ppbv	91
21) Allyl Chloride	2.097	41	1553	0.164	ppbv #	45
22) trans-1,2-Dichloroethene	2.033	96	620	0.108	ppbv	96
23) Vinyl Acetate	2.460	43	2093	0.123	ppbv #	92
24) 1,1-Dichloroethane	2.408	63	1242	0.112	ppbv #	82
25) Ethyl Acetate	2.832	43	3043	0.100	ppbv #	93
26) Hexane	2.822	57	1613	0.121	ppbv	93
27) Carbon Disulfide	2.152	76	1422	0.105	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	585	0.089	ppbv #	50
29) Chloroform	2.845	83	2028	0.107	ppbv	92
30) Cyclohexane	3.845	84	893	0.080	ppbv #	1
31) cis-1,2-Dichloroethene	2.719	61	1331	0.101	ppbv #	89
32) 1,1,1-Trichloroethane	3.369	97	999	0.049	ppbv #	11
34) 2-Butanone	2.560	43	2593	0.134	ppbv	96
35) Carbon Tetrachloride	3.761	117	901	0.043	ppbv #	88
36) Benzene	3.651	78	1569	0.060	ppbv #	79
37) 1,2-Dichloroethane	3.214	62	1537	0.100	ppbv	100
38) Trichloroethene	4.541	130	502	0.049	ppbv #	29
39) 1,2-Dichloropropane	3.949	63	69214	7.207	ppbv #	25
40) 1,4-Dioxane	4.596	88	308	0.071	ppbv #	16
41) Tetrahydrofuran	3.062	42	868	0.081	ppbv #	62
42) Bromodichloromethane	4.493	83	806	0.038	ppbv	95
43) Methyl Methacrylate	4.865	69	396	0.028	ppbv #	1
44) 2,2,4-Trimethylpentane	4.625	57	4980	0.110	ppbv #	81
45) t-1,3-Dichloropropene	6.405	75	645	0.050	ppbv	94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043208.D
Acq On : 18 Nov 2025 12:16
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Nov 19 00:51:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

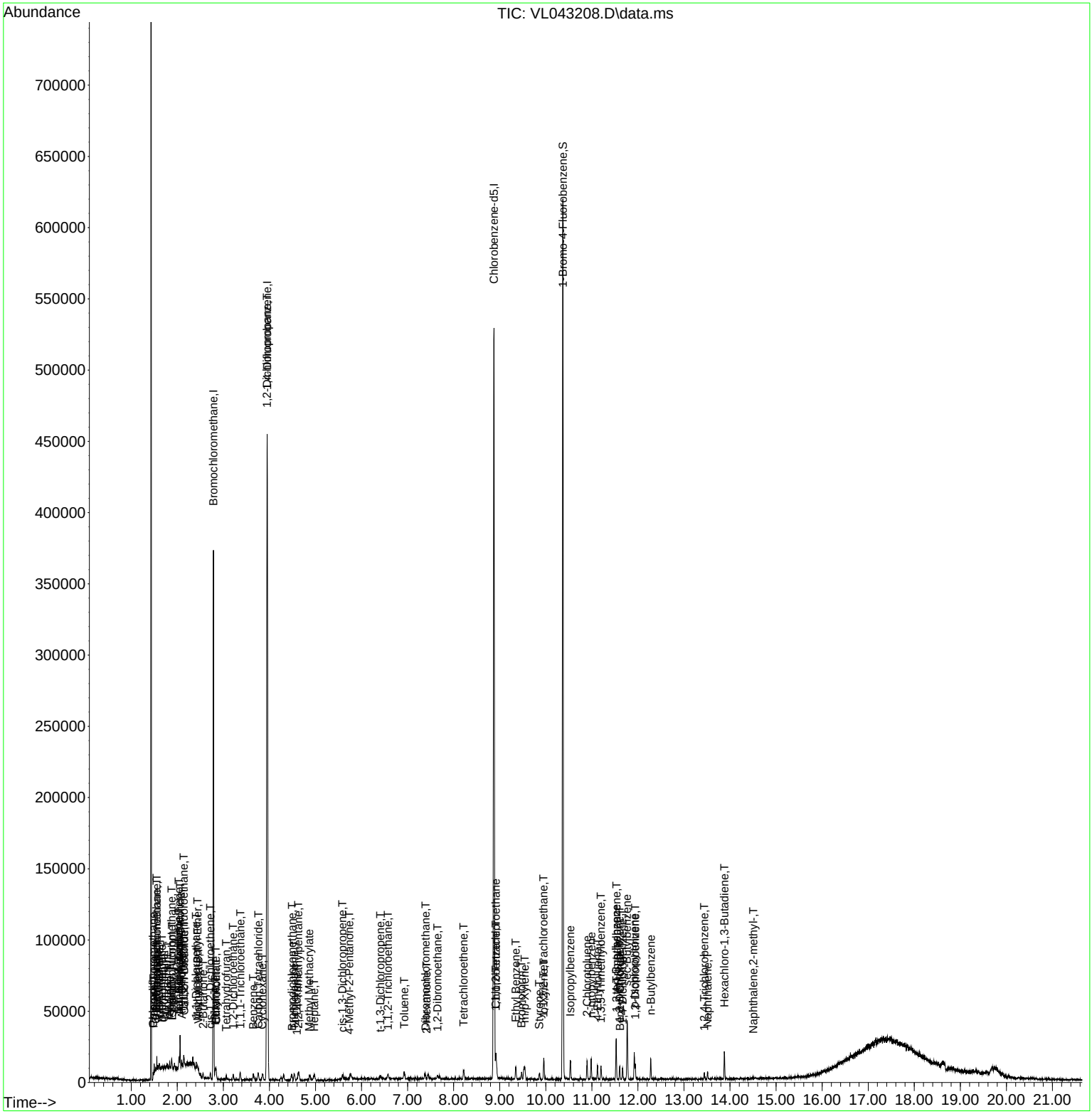
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.583	75	359	0.024	ppbv	#	72
47) 1,1,2-Trichloroethane	6.574	97	347	0.034	ppbv	#	51
48) Dibromochloromethane	7.389	129	237	0.014	ppbv	#	1
49) Bromoform	9.474	173	1357	0.087	ppbv	#	84
50) 4-Methyl-2-Pentanone	5.732	43	149	0.005	ppbv	#	39
51) 2-Hexanone	7.415	43	83	0.004	ppbv	#	29
52) Tetrachloroethene	8.218	164	248	0.025	ppbv	#	61
53) Toluene	6.927	91	734	0.023	ppbv	#	21
54) 1,2-Dibromoethane	7.648	107	719	0.048	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.914	131	760	0.047	ppbv	#	9
57) Chlorobenzene	8.917	112	1955	0.086	ppbv	#	81
58) Ethyl Benzene	9.348	91	5157	0.121	ppbv	#	86
59) m/p-Xylene	9.545	91	3099	0.090	ppbv	#	31
60) o-Xylene	9.956	91	3453	0.101	ppbv		91
61) Styrene	9.859	104	1176	0.079	ppbv	#	49
62) Isopropylbenzene	10.532	105	6313	0.103	ppbv		96
63) 1,1,2,2-Tetrachloroethane	9.953	83	1380	0.064	ppbv	#	58
64) n-propylbenzene	10.989	120	1635	0.104	ppbv		87
65) tert-Butylbenzene	11.529	119	5745	0.105	ppbv		91
66) Benzyl Chloride	11.613	91	125	0.023	ppbv	#	65
67) sec-Butylbenzene	11.762	105	7764	0.102	ppbv		94
69) p-Isopropyltoluene	11.921	119	6425	0.099	ppbv		99
70) n-Butylbenzene	12.280	91	5160	0.082	ppbv		93
71) 2-Chlorotoluene	10.898	91	5248	0.111	ppbv		93
72) 4-Ethyltoluene	11.124	105	4061	0.097	ppbv		96
73) 1,3,5-Trimethylbenzene	11.196	105	3445	0.098	ppbv		92
74) 1,2,4-Trimethylbenzene	11.536	105	1485	0.039	ppbv	#	73
75) 1,3-Dichlorobenzene	11.604	146	1935	0.087	ppbv		98
76) 1,4-Dichlorobenzene	11.668	146	2131	0.096	ppbv		89
77) 1,2-Dichlorobenzene	11.943	146	2051	0.096	ppbv		96
78) Hexachloro-1,3-Butadiene	13.876	225	1837	0.103	ppbv	#	89
79) Naphthalene	13.510	128	2112	0.062	ppbv	#	87
80) Naphthalene,2-methyl-	14.507	142	309	0.035	ppbv	#	65
81) 1,2,4-Trichlorobenzene	13.439	180	350	0.023	ppbv	#	12

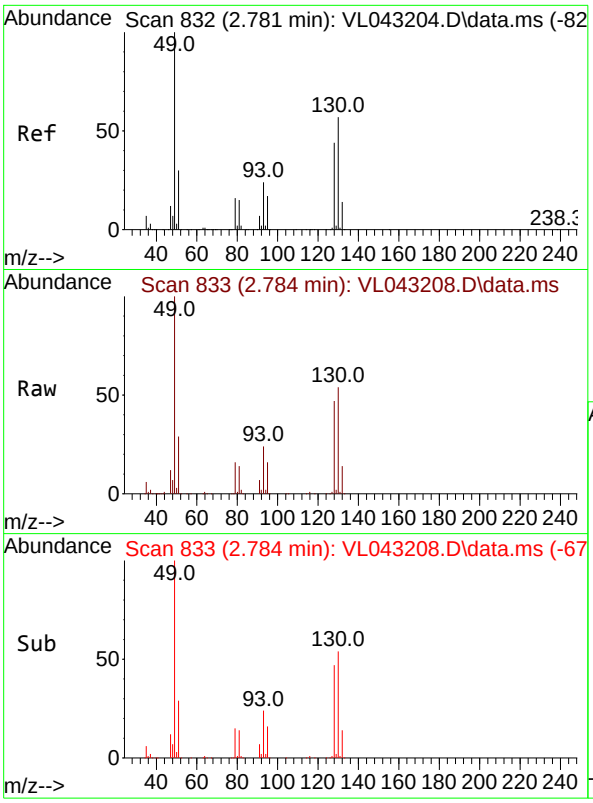
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043208.D
Acq On : 18 Nov 2025 12:16
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Nov 19 00:51:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration



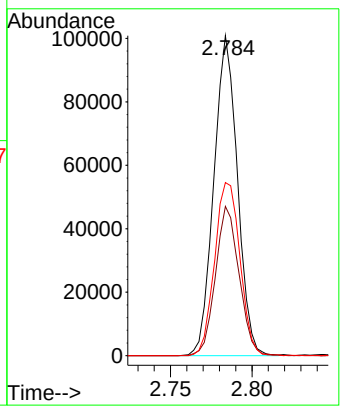


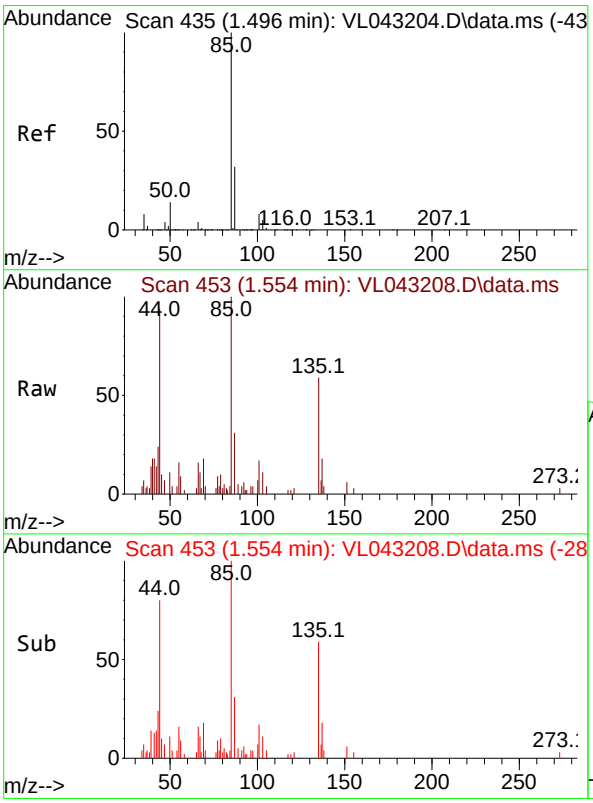
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 49 Resp: 101366

Ion	Ratio	Lower	Upper
49	100		
128	46.8	23.0	69.0
130	58.3	29.9	89.7

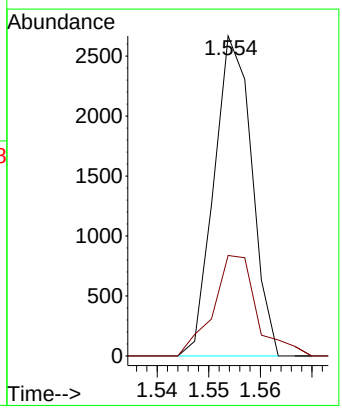


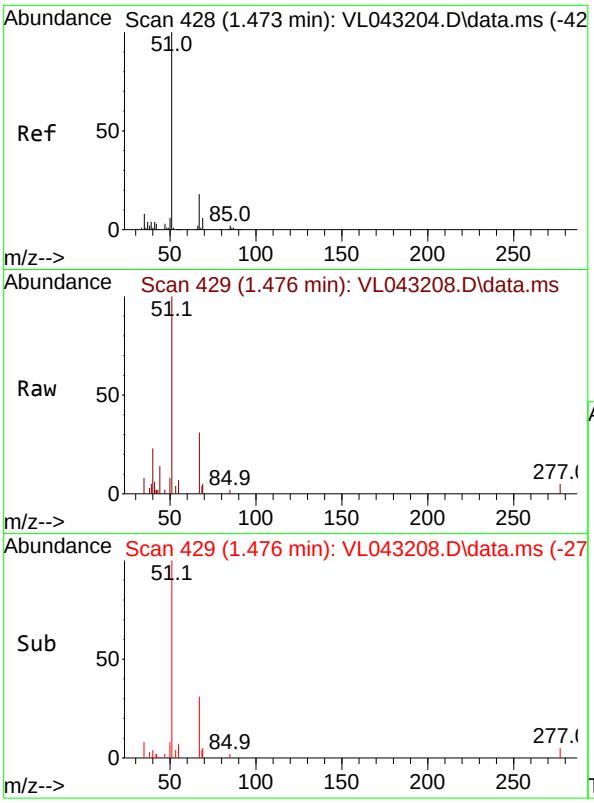


#2
Dichlorodifluoromethane
Concen: 0.095 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.058 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 85 Resp: 1358

Ion	Ratio	Lower	Upper
85	100		
87	31.4	25.4	38.2



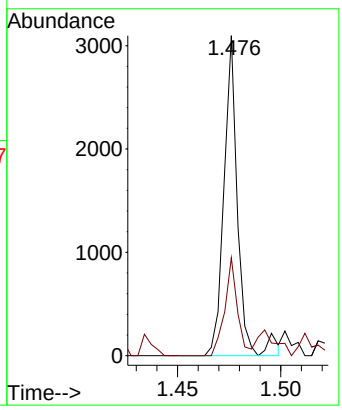


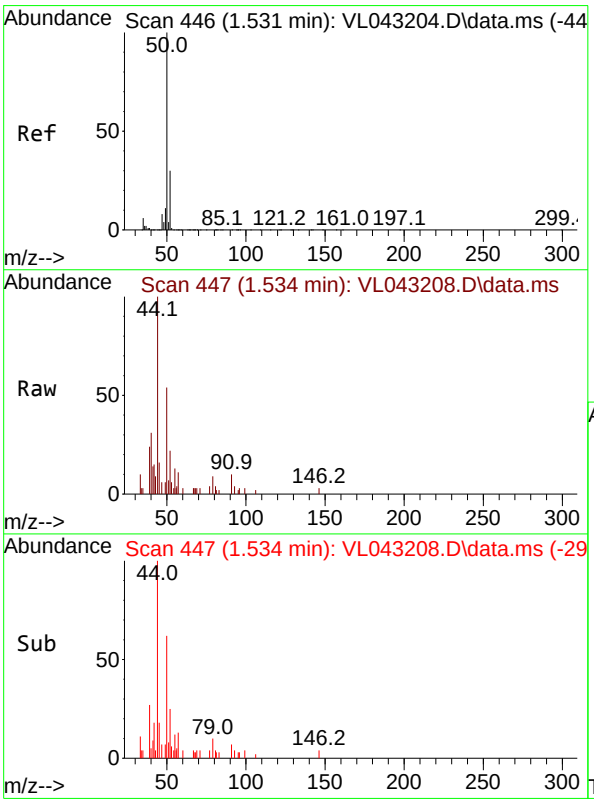
#3
Chlorodifluoromethane
Concen: 0.102 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 51 Resp: 1436

Ion	Ratio	Lower	Upper
51	100		
67	40.2	14.9	22.3#

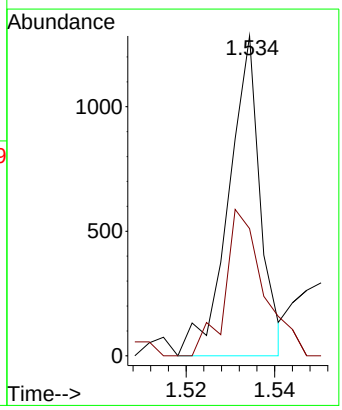


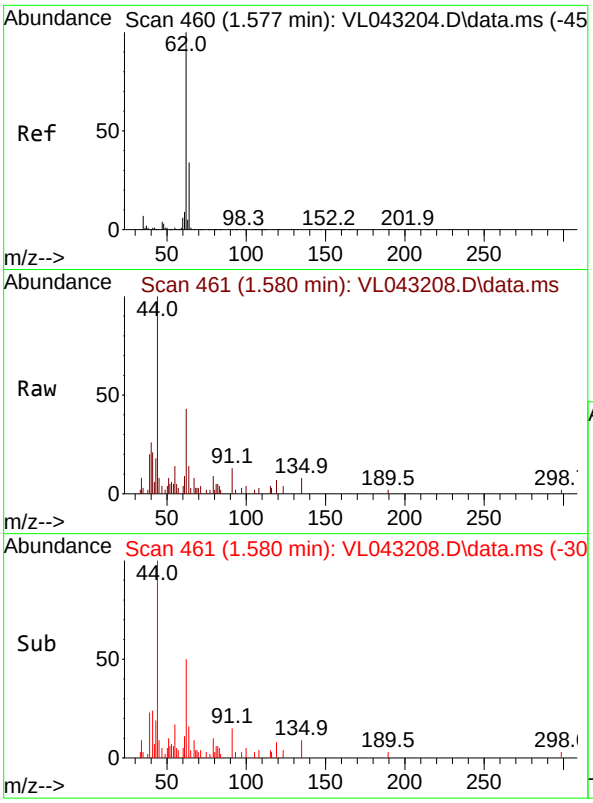


#4
Chloromethane
Concen: 0.119 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 50 Resp: 638

Ion	Ratio	Lower	Upper
50	100		
52	39.8	24.1	36.1#



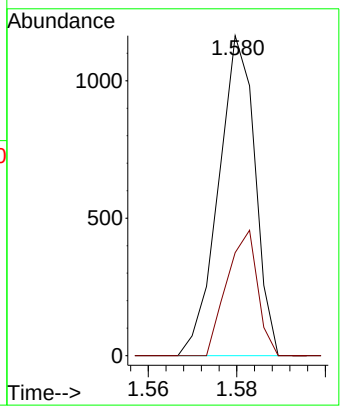


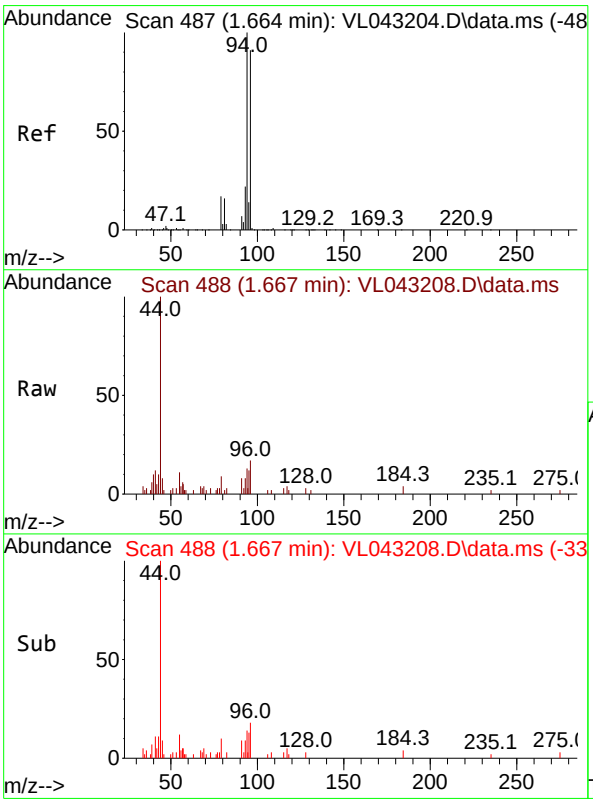
#5
Vinyl Chloride
Concen: 0.114 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 664

Ion	Ratio	Lower	Upper
62	100		
64	32.2	27.3	40.9

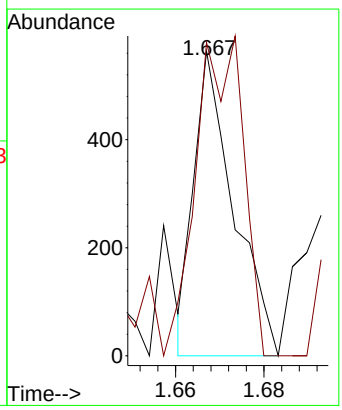


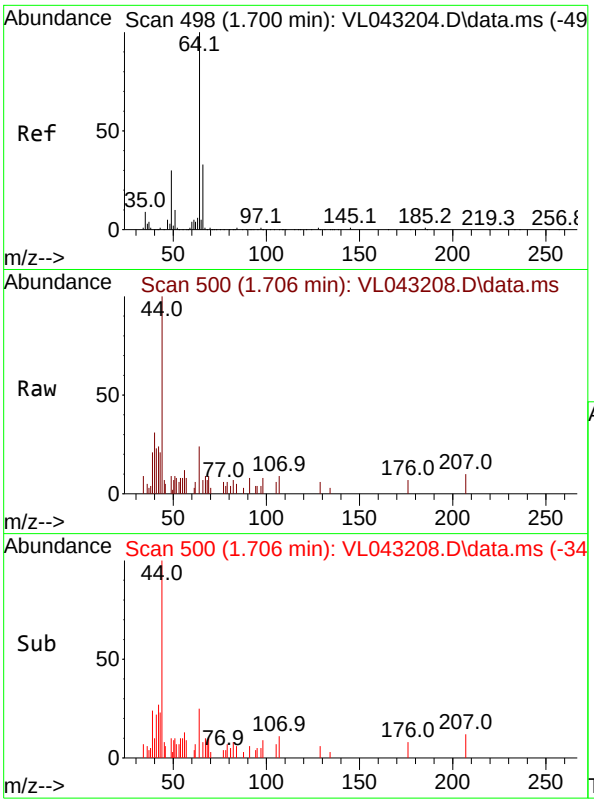


#6
Bromomethane
Concen: 0.124 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 94 Resp: 352

Ion	Ratio	Lower	Upper
94	100		
96	102.8	72.9	109.3



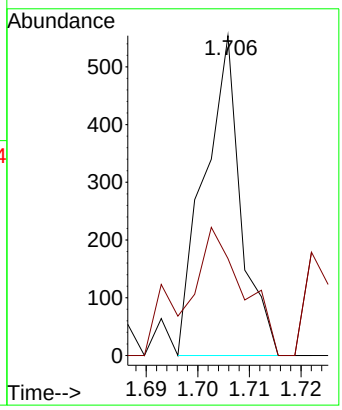


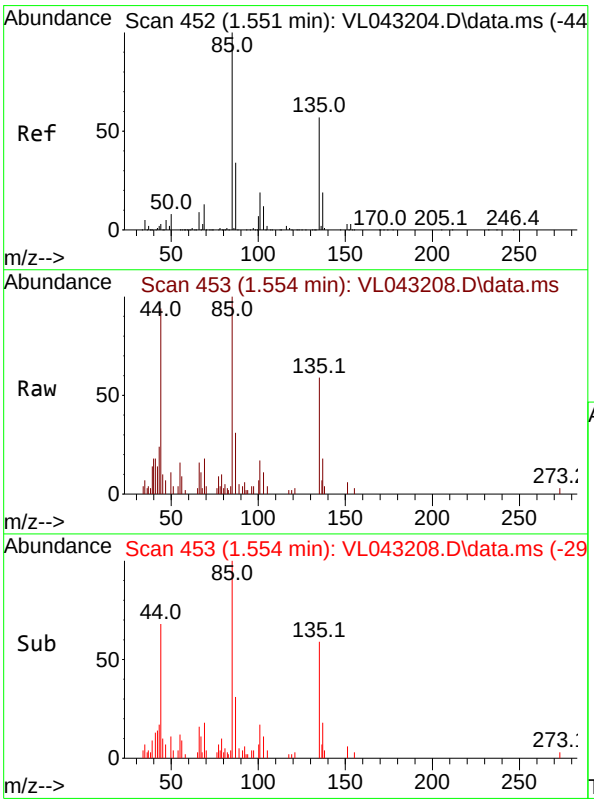
#7
Chloroethane
Concen: 0.121 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 64 Resp: 275

Ion	Ratio	Lower	Upper
64	100		
66	30.3	26.8	40.2

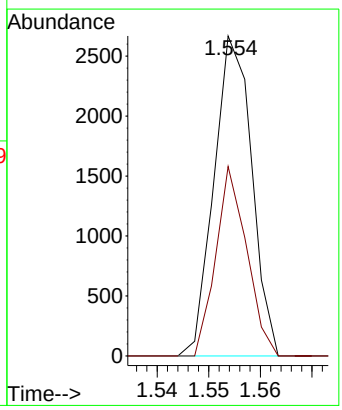


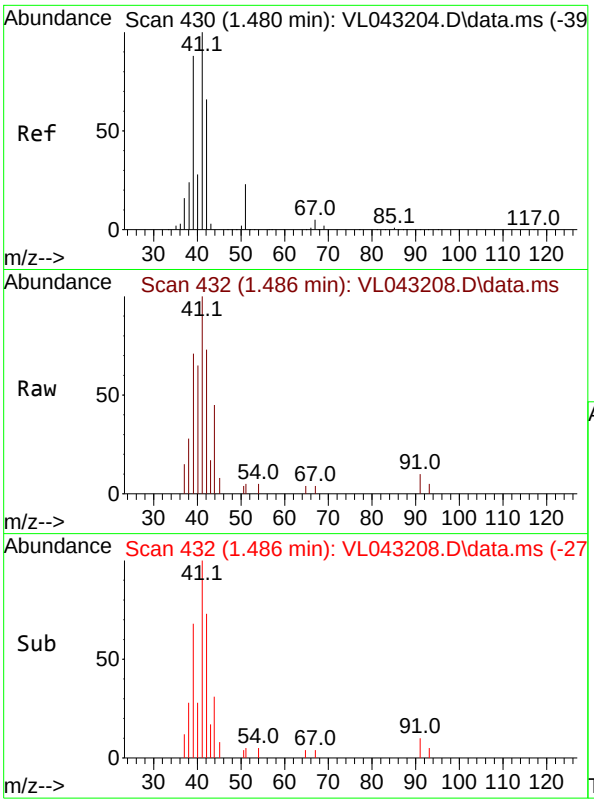


#8
Dichlorotetrafluoroethane
Concen: 0.114 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 85 Resp: 1358

Ion	Ratio	Lower	Upper
85	100		
135	48.5	52.6	79.0#



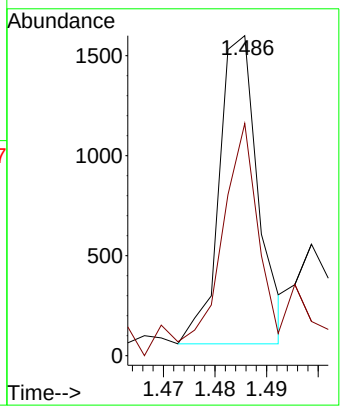


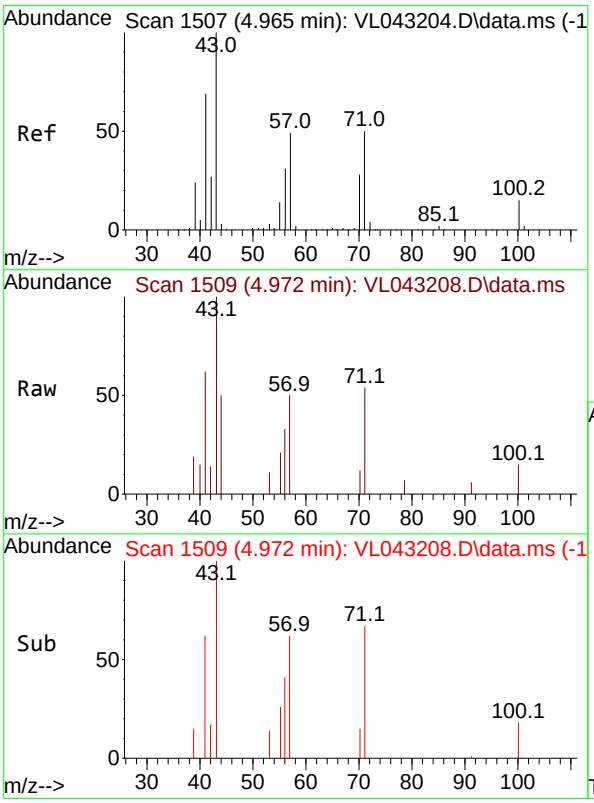
#9
Propene
Concen: 0.124 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 811

Ion	Ratio	Lower	Upper
41	100		
42	79.2	3.7	5.5#

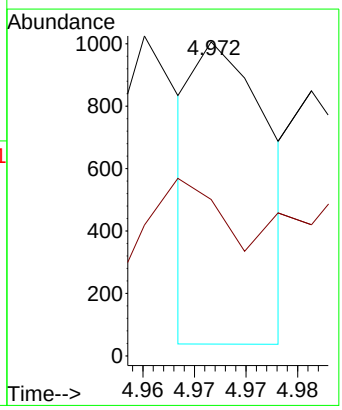


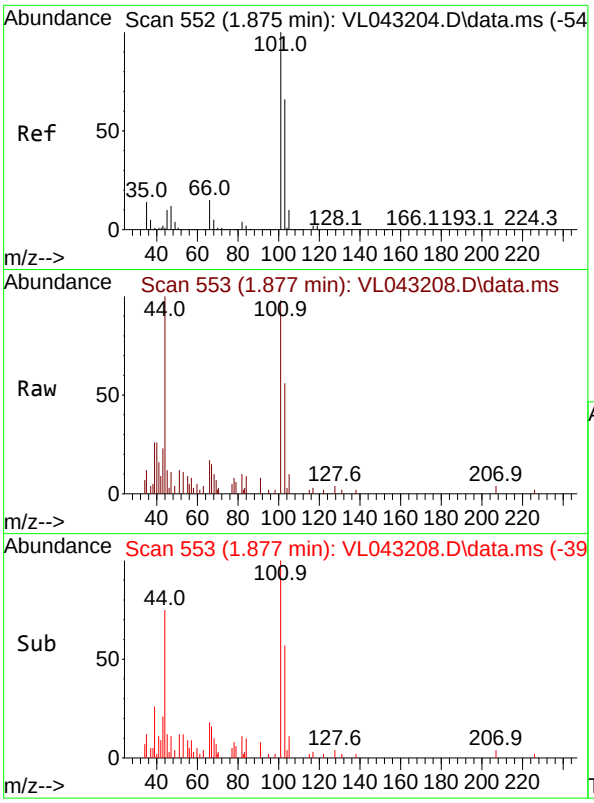


#10
Heptane
Concen: 0.027 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 43 Resp: 480

Ion	Ratio	Lower	Upper
43	100		
57	260.6	39.7	59.5#



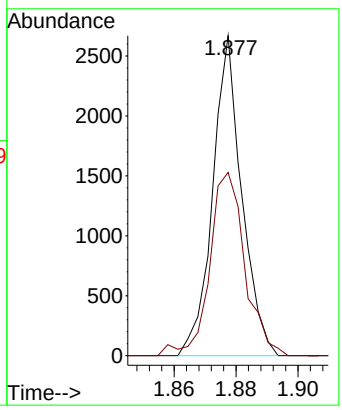


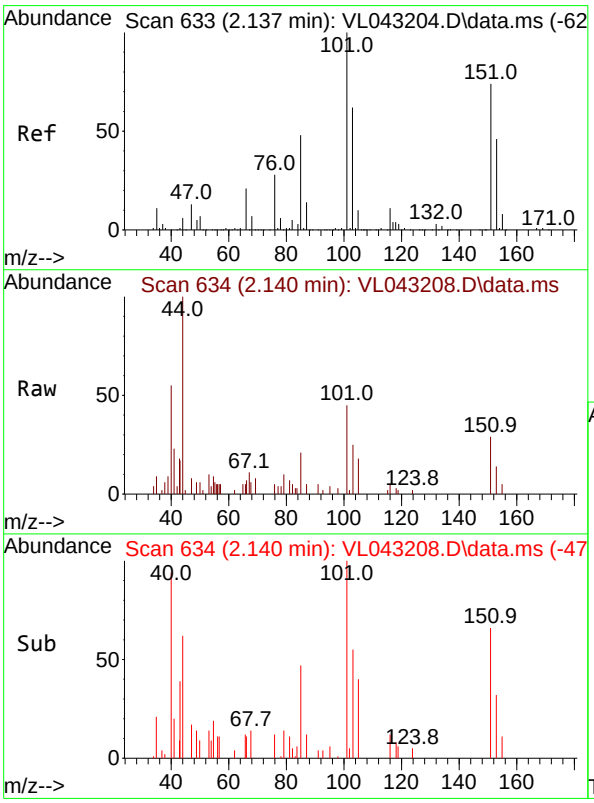
#11
Trichlorofluoromethane
Concen: 0.126 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:101 Resp: 1744

Ion	Ratio	Lower	Upper
101	100		
103	55.2	52.6	79.0

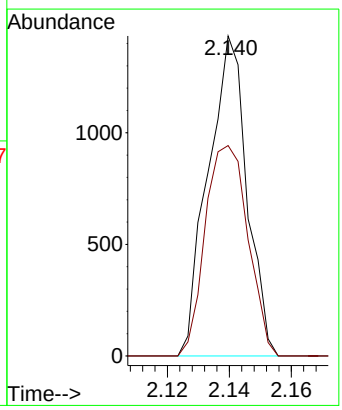


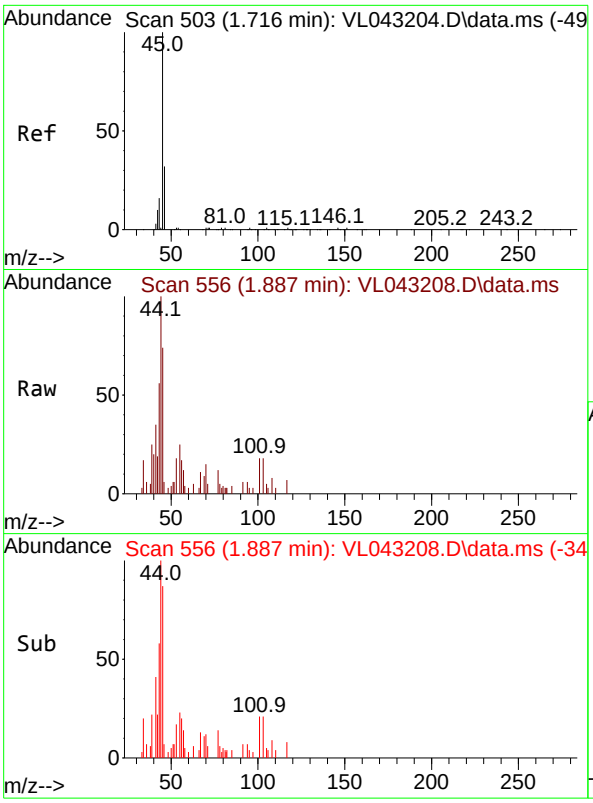


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.115 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:101 Resp: 1249

Ion	Ratio	Lower	Upper
101	100		
151	72.4	59.2	88.8



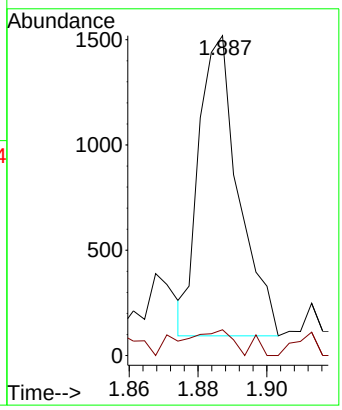


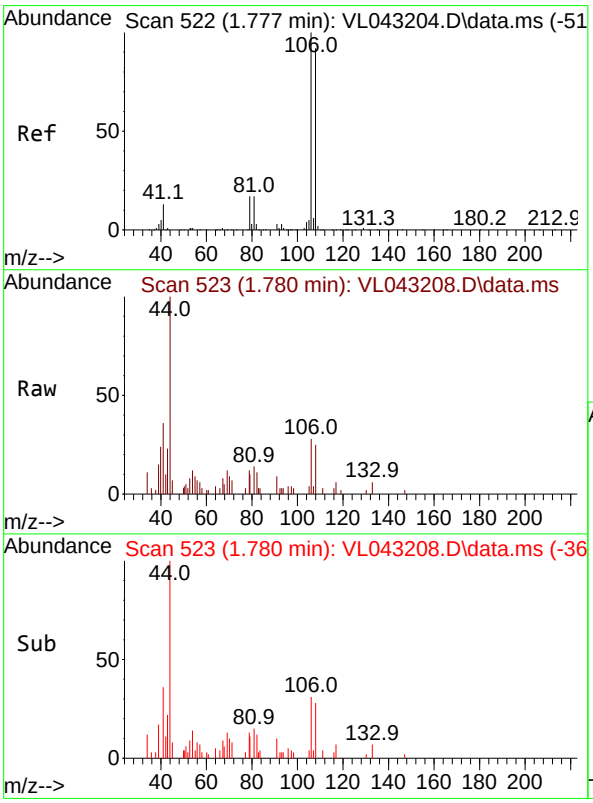
#13
Ethanol
Concen: 0.543 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.171 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 1141

Ion	Ratio	Lower	Upper
45	100		
46	22.5	15.0	59.8

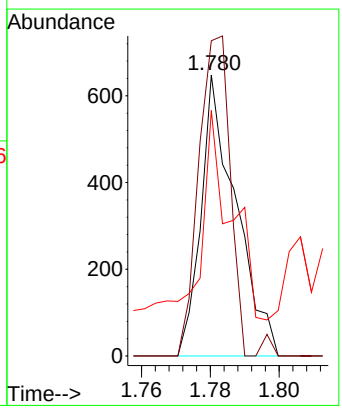


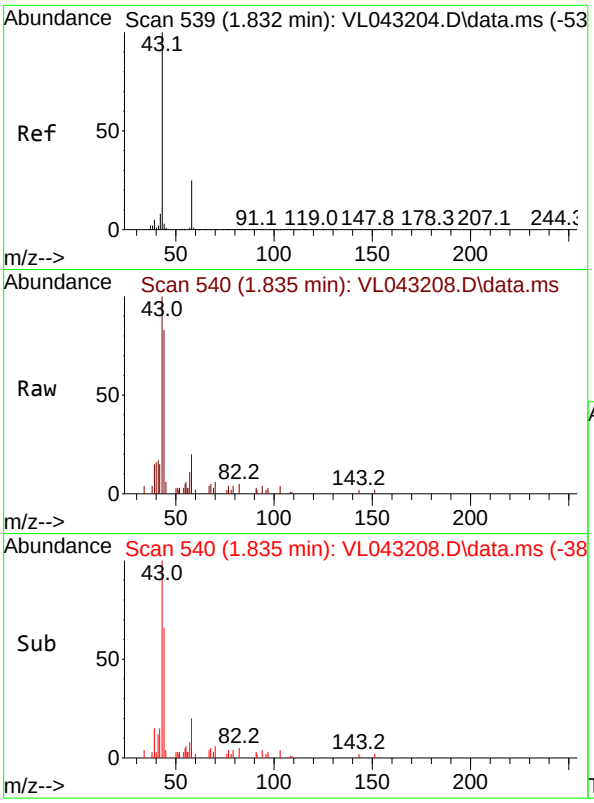


#14
Bromoethene
Concen: 0.110 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:108 Resp: 456

Ion	Ratio	Lower	Upper
108	100		
106	103.9	88.9	133.3
79	90.8	16.5	24.7#



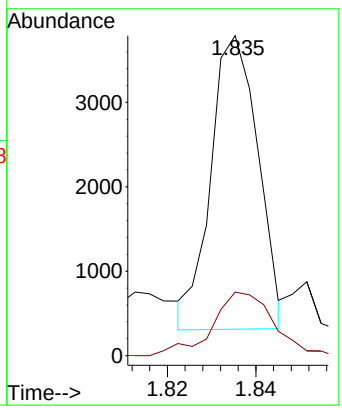


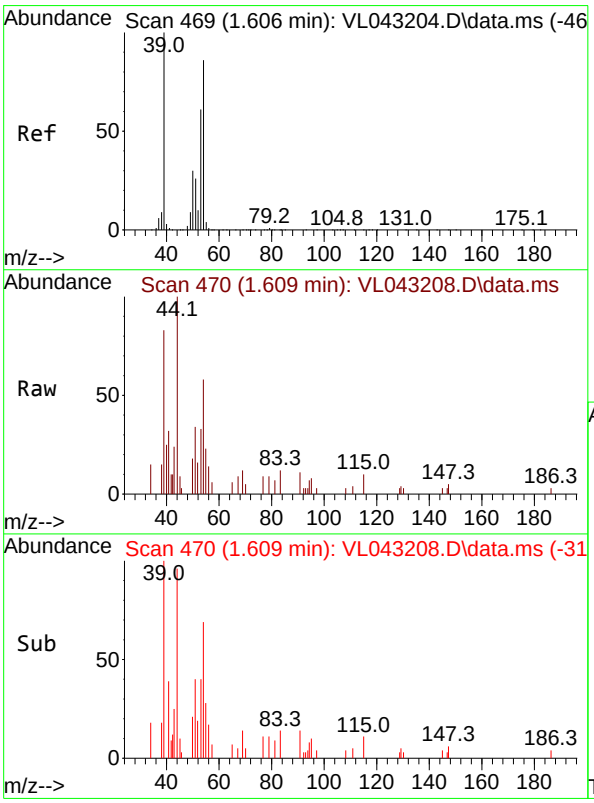
#15
Acetone
Concen: 0.183 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 2574

Ion	Ratio	Lower	Upper
43	100		
58	28.0	20.7	31.1

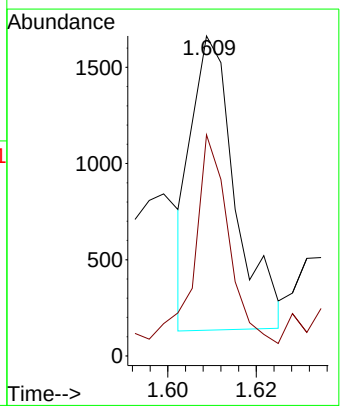


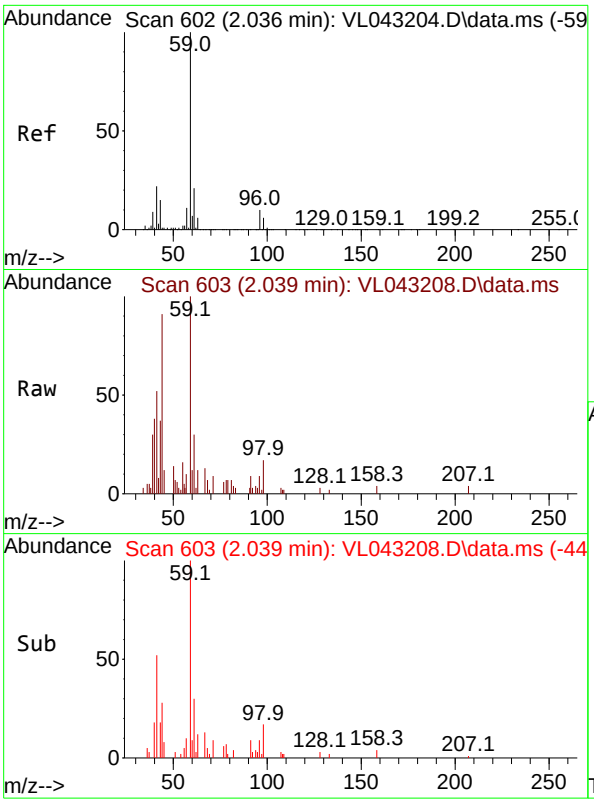


#16
1,3-Butadiene
Concen: 0.167 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 39 Resp: 1049

Ion	Ratio	Lower	Upper
39	100		
54	111.2	59.4	89.2#



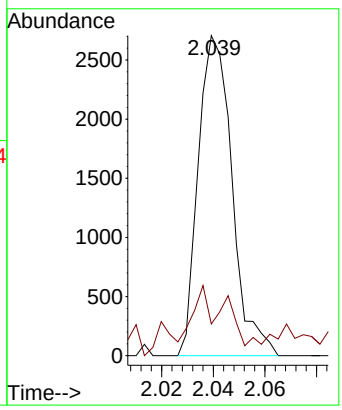


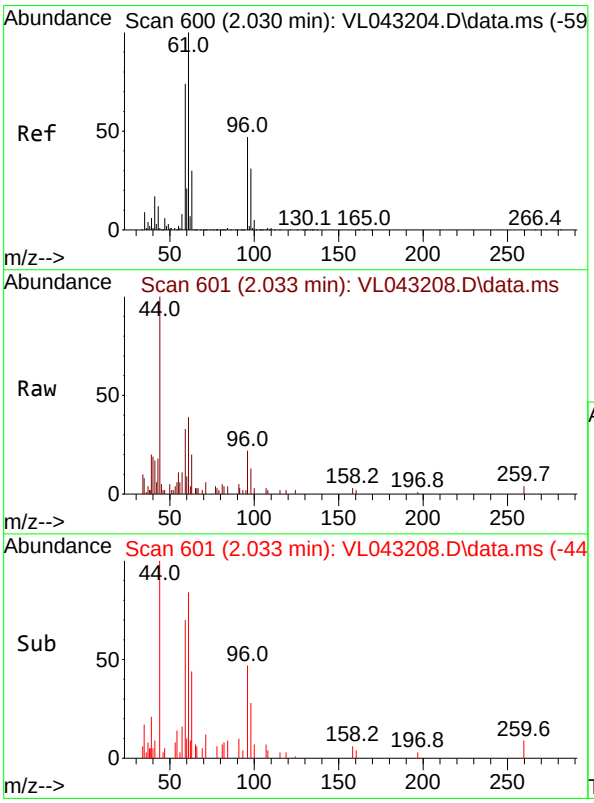
#17
tert-Butyl alcohol
Concen: 0.133 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 59 Resp: 2464

Ion	Ratio	Lower	Upper
59	100		
57	37.8	9.0	13.4#

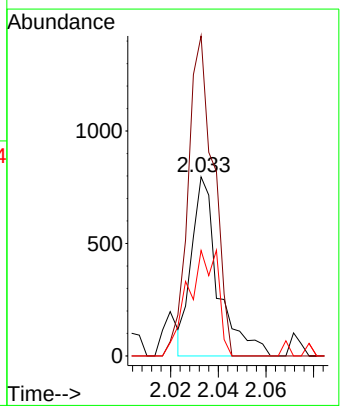


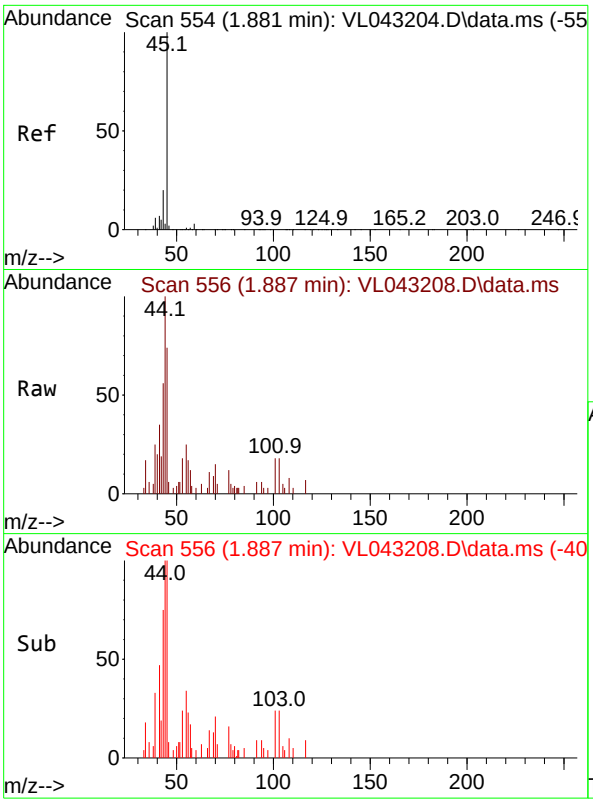


#18
1,1-Dichloroethene
Concen: 0.123 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 96 Resp: 620

Ion	Ratio	Lower	Upper
96	100		
61	178.8	170.6	255.8
98	58.9	52.2	78.4



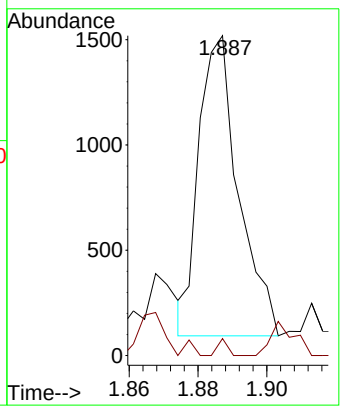


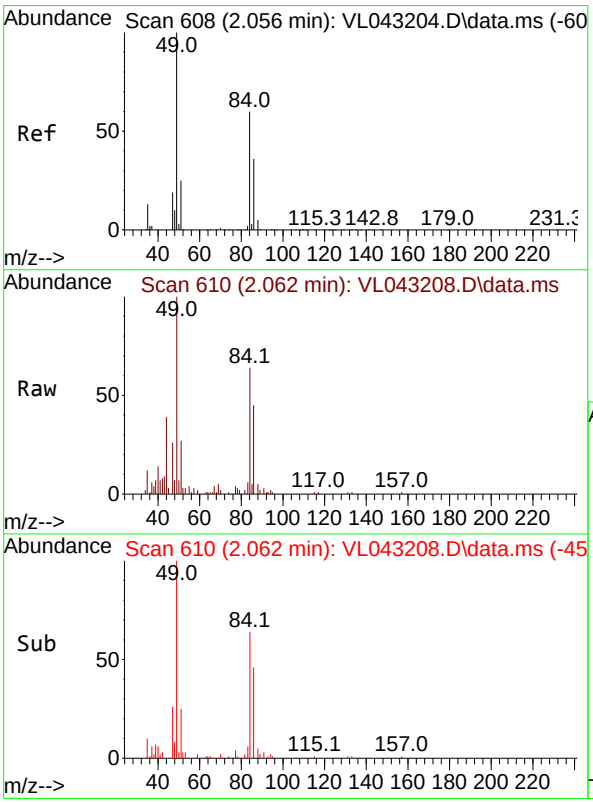
#19
Isopropyl Alcohol
Concen: 0.143 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 45 Resp: 1141

Ion	Ratio	Lower	Upper
45	100		
58	11.7	31.3	46.9#

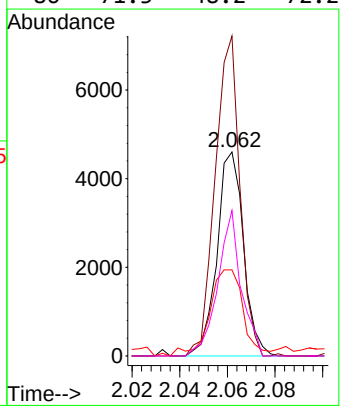


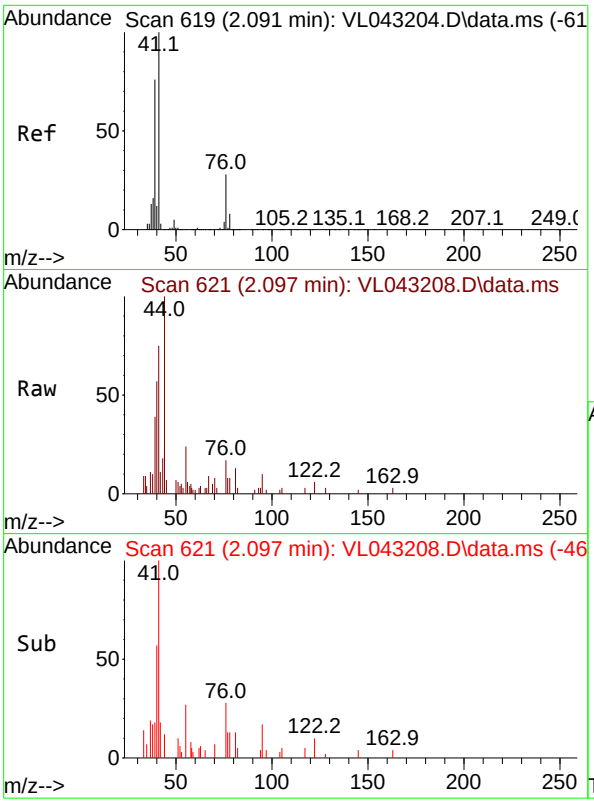


#20
Methylene Chloride
Concen: 0.077 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 84 Resp: 3550

Ion	Ratio	Lower	Upper
84	100		
49	156.9	132.9	199.3
51	38.9	34.8	52.2
86	71.3	48.2	72.2



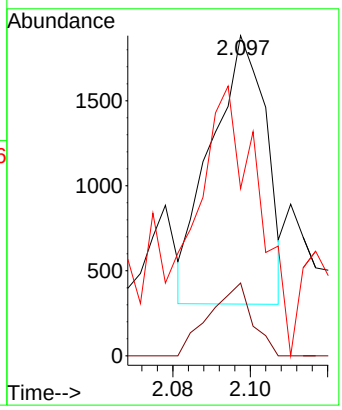


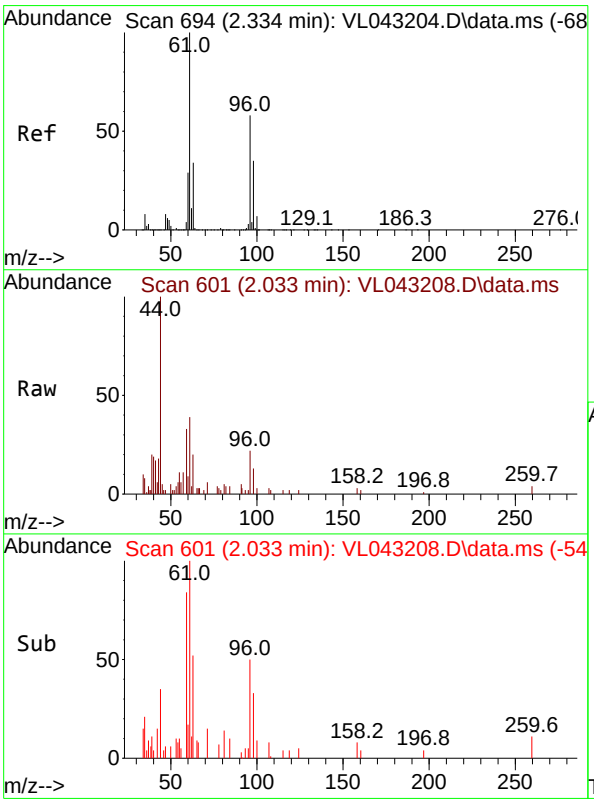
#21
Allyl Chloride
Concen: 0.164 ppbv
RT: 2.097 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 41 Resp: 1553

Ion	Ratio	Lower	Upper
41	100		
76	21.1	22.1	33.1#
39	136.3	61.0	91.4#

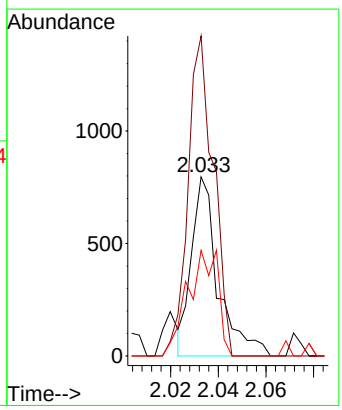


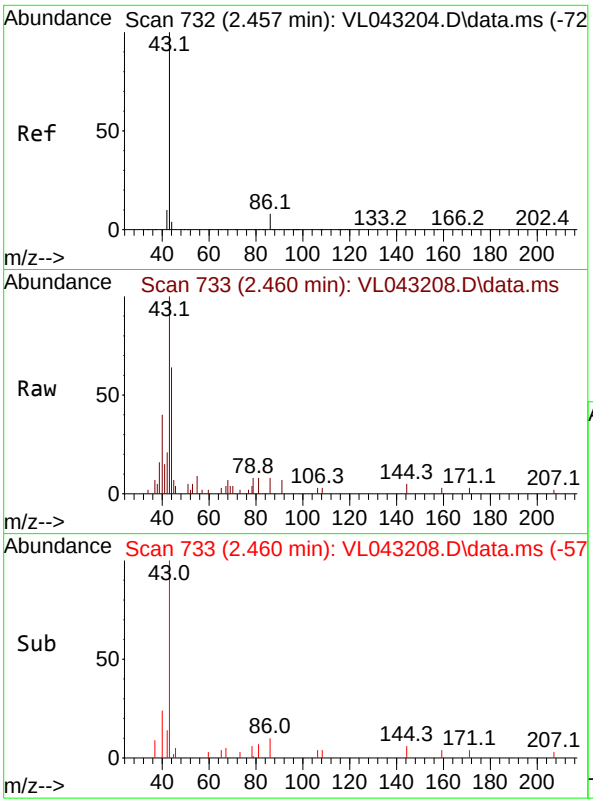


#22
trans-1,2-Dichloroethene
Concen: 0.108 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.301 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 96 Resp: 620

Ion	Ratio	Lower	Upper
96	100		
61	178.8	139.0	208.6
98	58.9	49.4	74.2



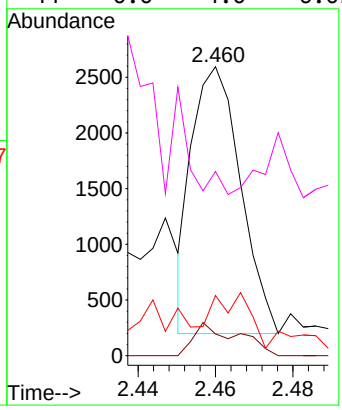


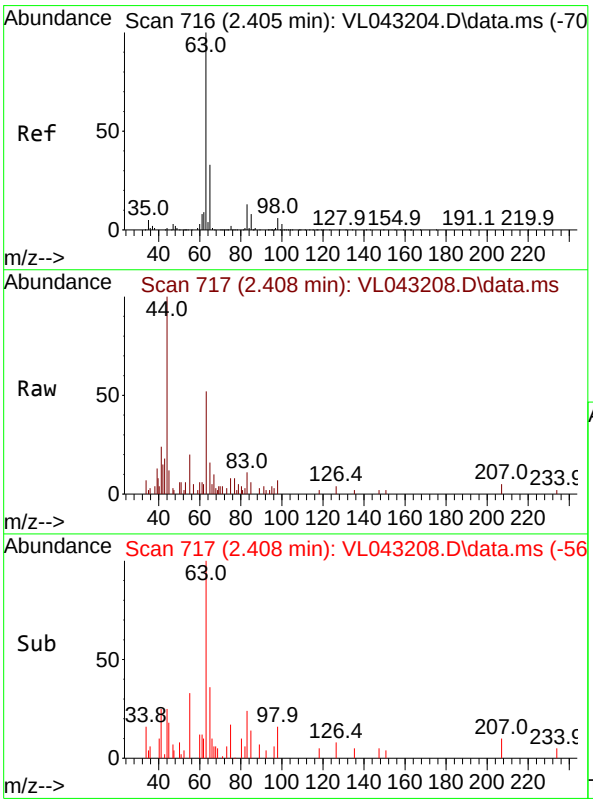
#23
Vinyl Acetate
Concen: 0.123 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 2093

Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.2	9.2
42	13.4	8.0	12.0#
44	0.0	4.0	6.0#

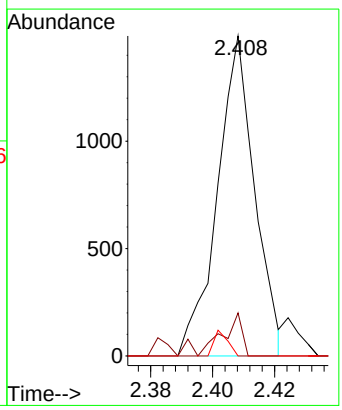


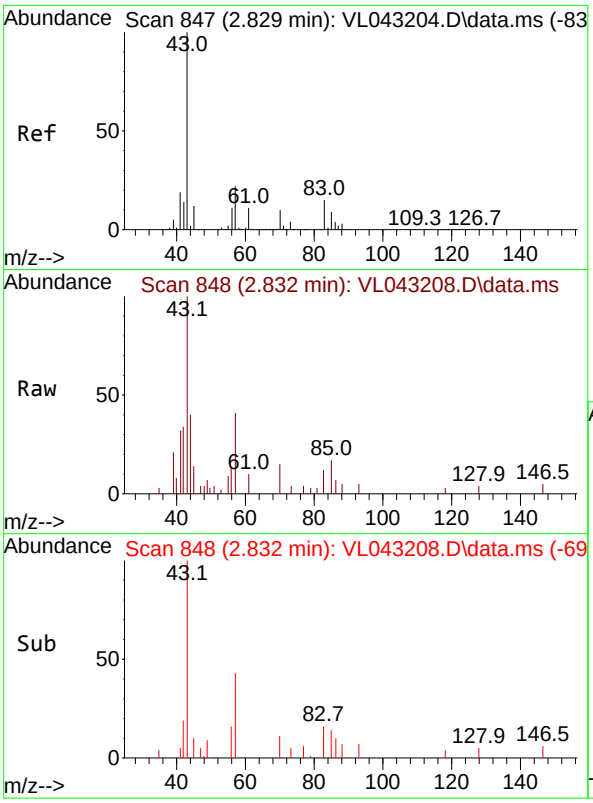


#24
1,1-Dichloroethane
Concen: 0.112 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 63 Resp: 1242

Ion	Ratio	Lower	Upper
63	100		
98	13.4	2.8	8.4#
100	0.0	1.3	3.9#



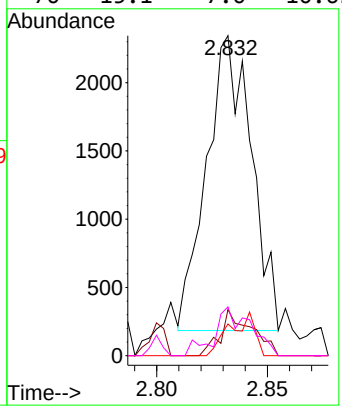


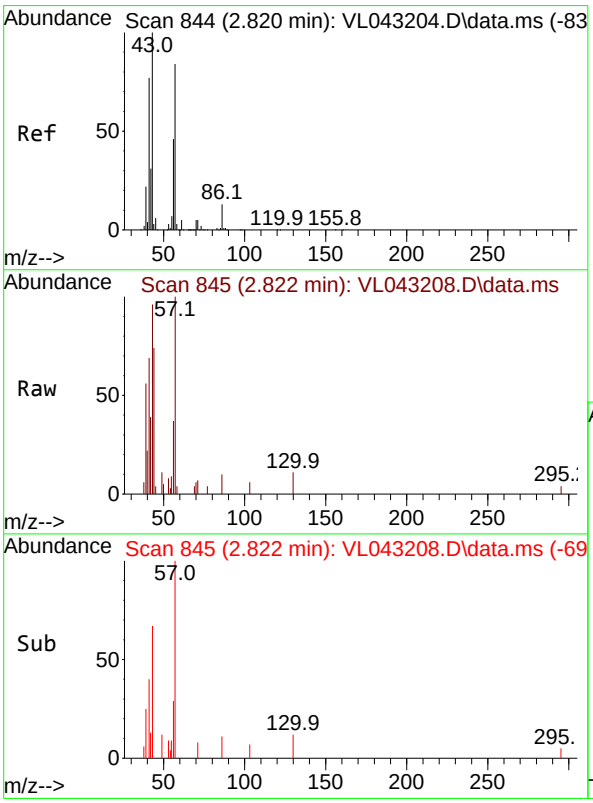
#25
Ethyl Acetate
Concen: 0.100 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 3043

Ion	Ratio	Lower	Upper
43	100		
45	10.9	8.1	12.1
61	8.2	7.0	10.4
70	15.1	7.0	10.6#

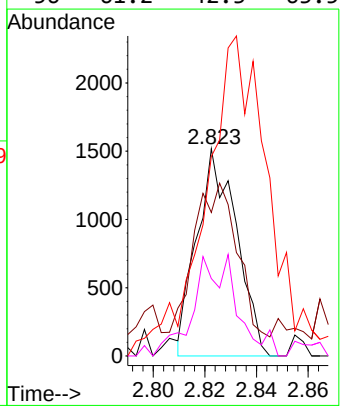


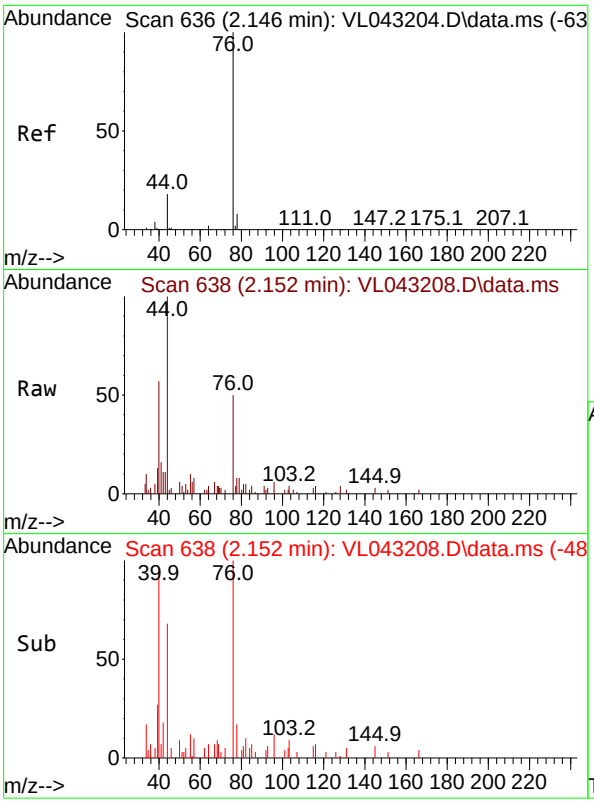


#26
Hexane
Concen: 0.121 ppbv
RT: 2.822 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 57 Resp: 1613

Ion	Ratio	Lower	Upper
57	100		
41	88.3	74.6	111.8
43	235.4	179.0	268.4
56	61.2	42.3	63.5



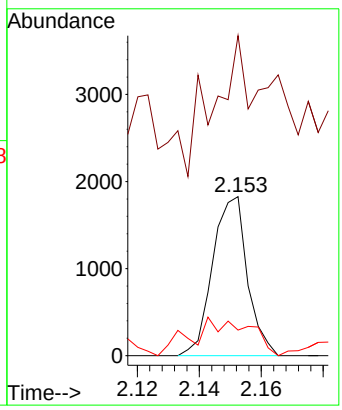


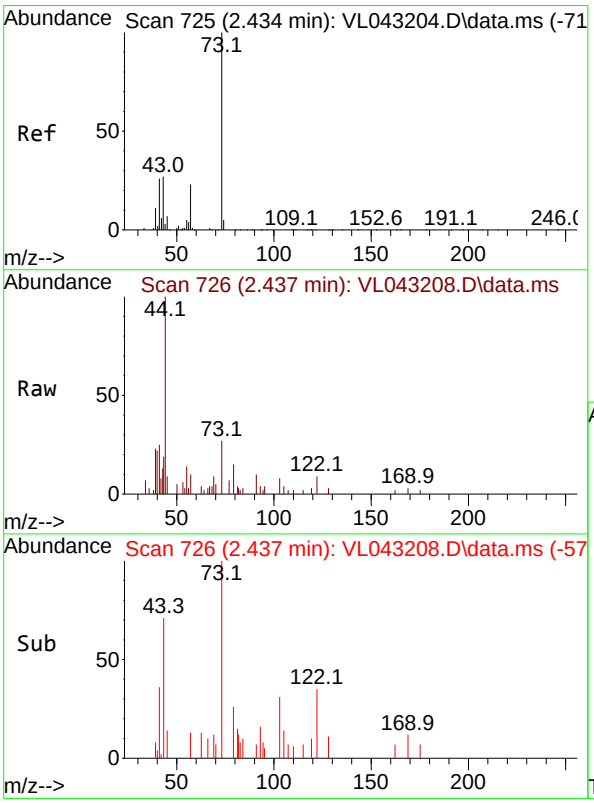
#27
Carbon Disulfide
Concen: 0.105 ppbv
RT: 2.152 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 76 Resp: 1422

Ion	Ratio	Lower	Upper
76	100		
44	325.6	16.1	24.1#
78	45.7	9.6	14.4#

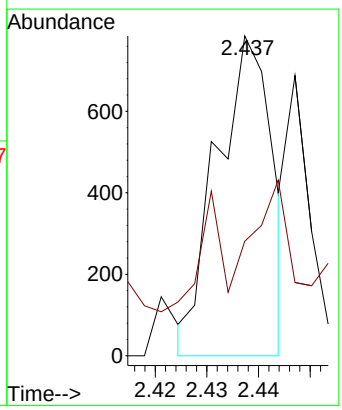


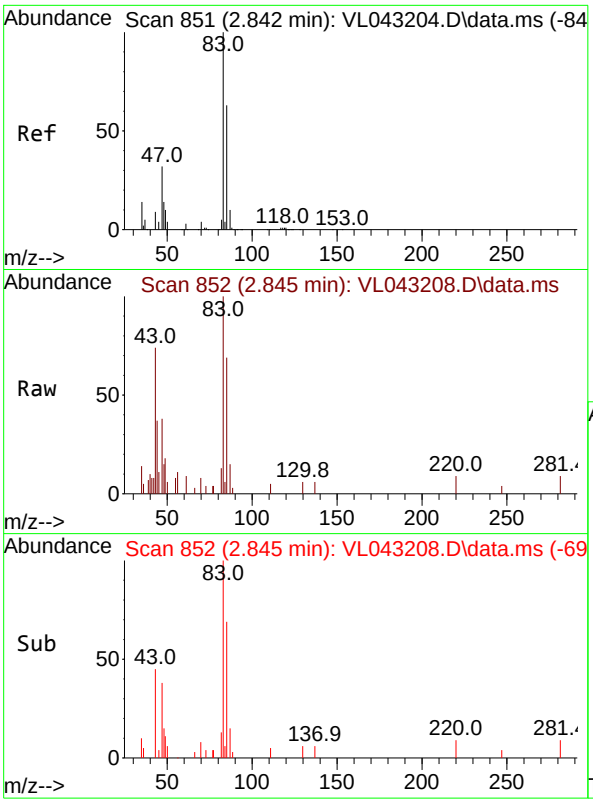


#28
Methyl tert-Butyl Ether
Concen: 0.089 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 73 Resp: 585

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.8	29.8#



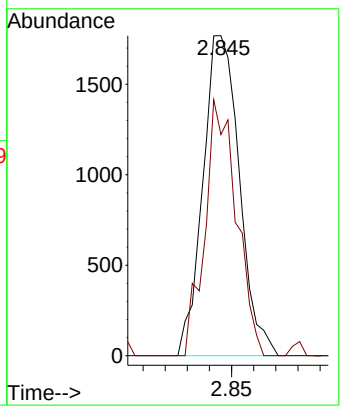


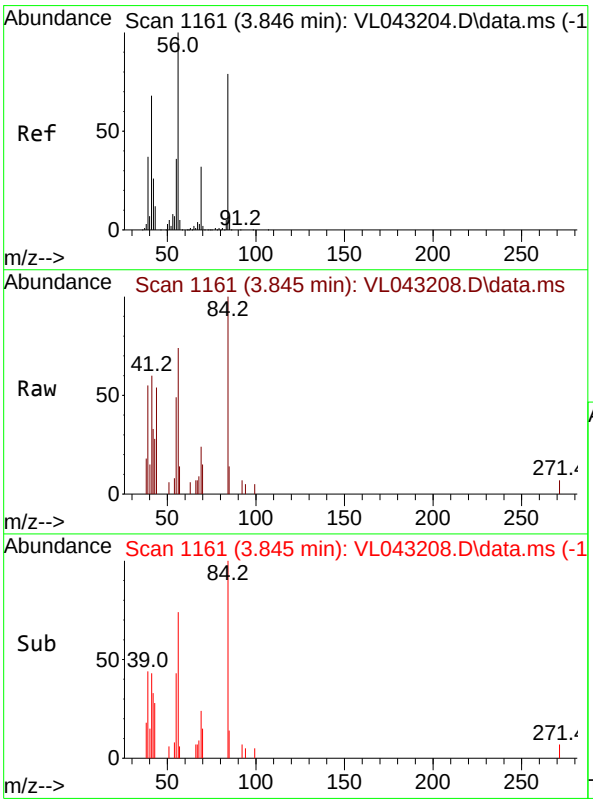
#29
Chloroform
Concen: 0.107 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 2028

Ion	Ratio	Lower	Upper
83	100		
85	69.1	50.5	75.7

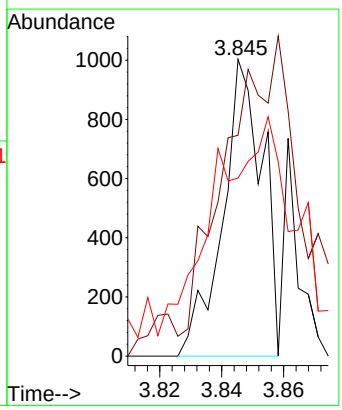


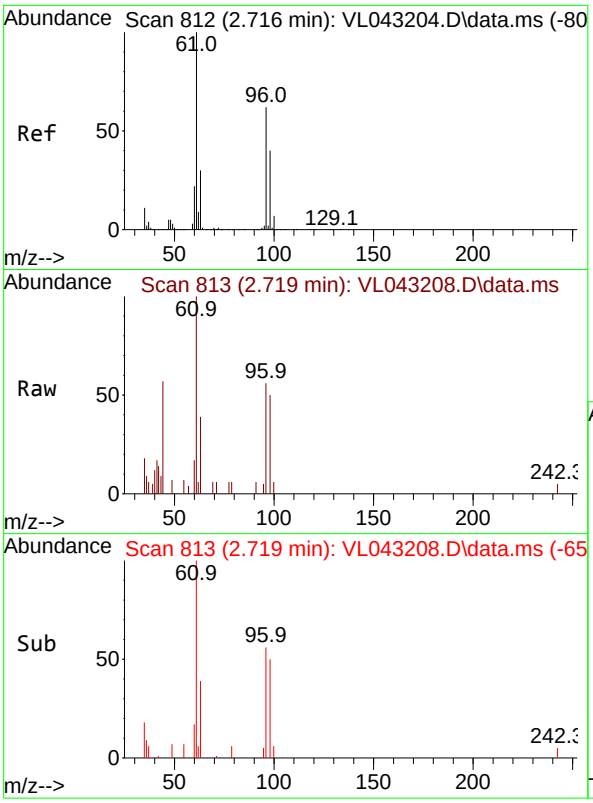


#30
Cyclohexane
Concen: 0.080 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 84 Resp: 893

Ion	Ratio	Lower	Upper
84	100		
56	0.0	104.7	157.1#
41	0.0	69.0	103.6#



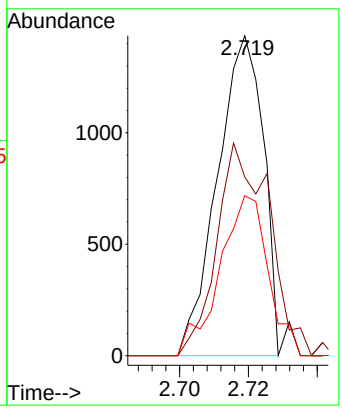


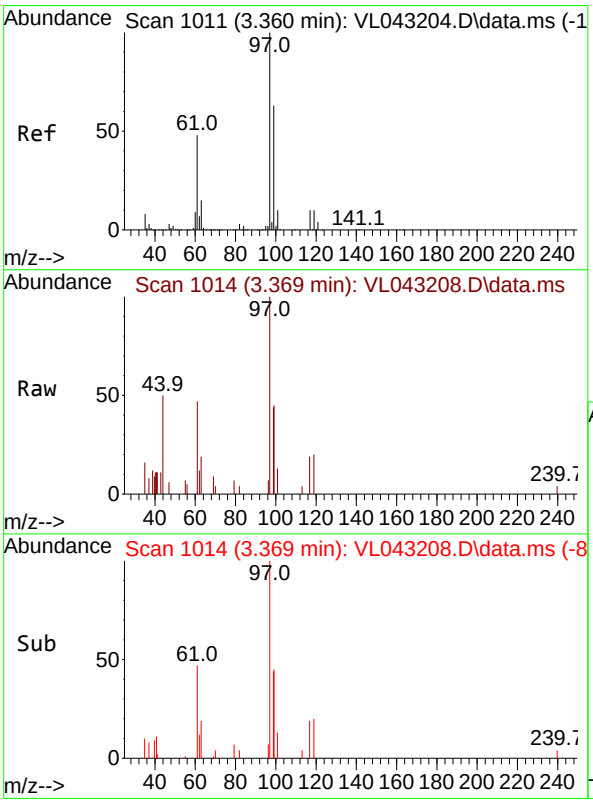
#31
cis-1,2-Dichloroethene
Concen: 0.101 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 61 Resp: 1331

Ion	Ratio	Lower	Upper
61	100		
96	55.8	49.3	73.9
98	50.0	32.1	48.1#

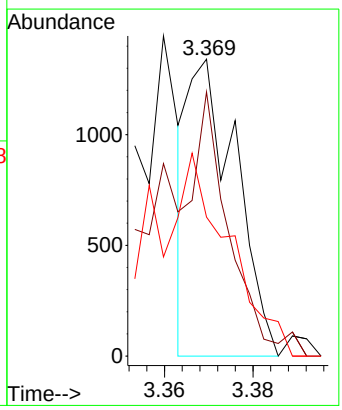


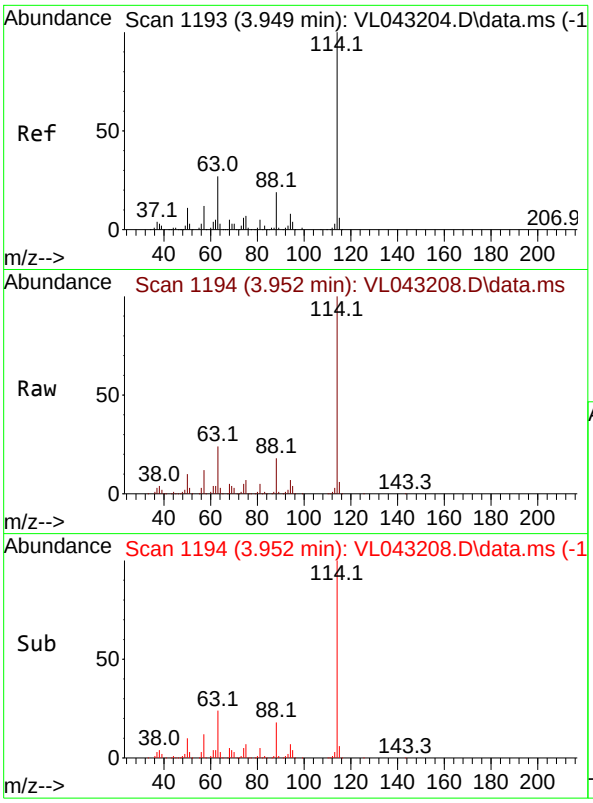


#32
1,1,1-Trichloroethane
Concen: 0.049 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.009 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 97 Resp: 999

Ion	Ratio	Lower	Upper
97	100		
99	130.1	50.3	75.5#
61	111.0	38.9	58.3#



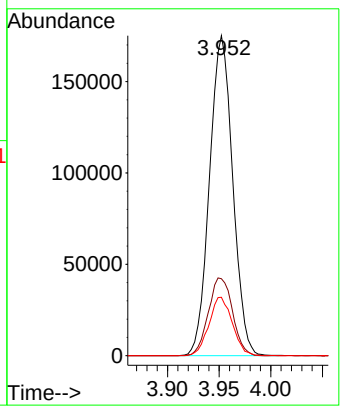


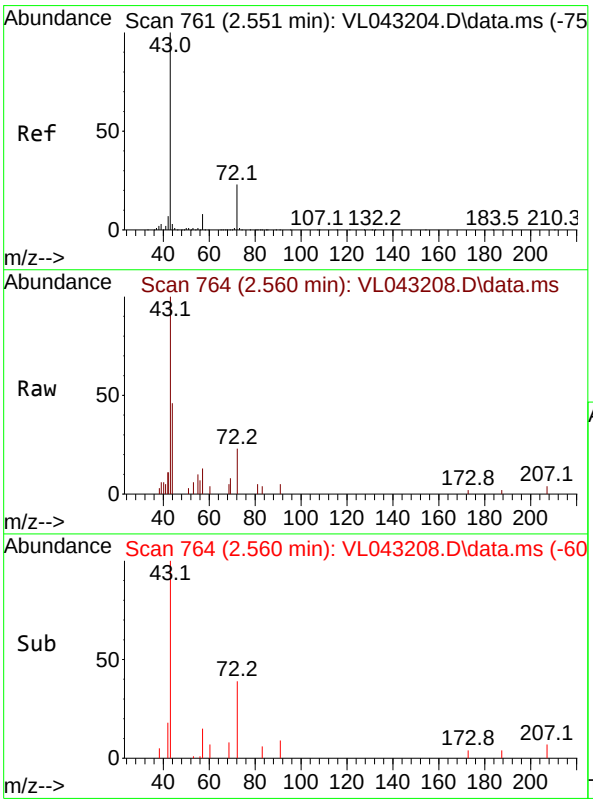
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:114 Resp: 273996

Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.0	31.6
88	18.3	14.9	22.3

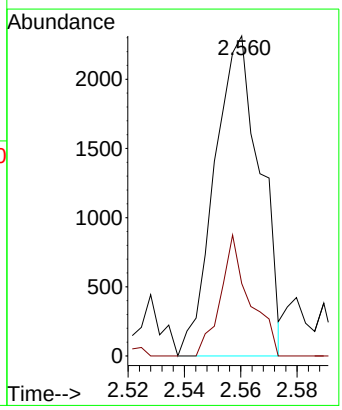


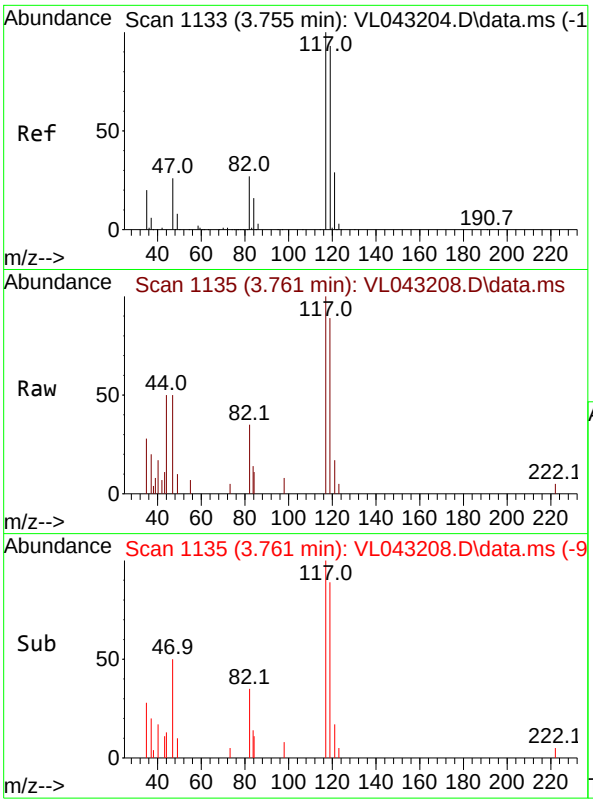


#34
2-Butanone
Concen: 0.134 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.009 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 43 Resp: 2593

Ion	Ratio	Lower	Upper
43	100		
72	24.3	18.1	27.1



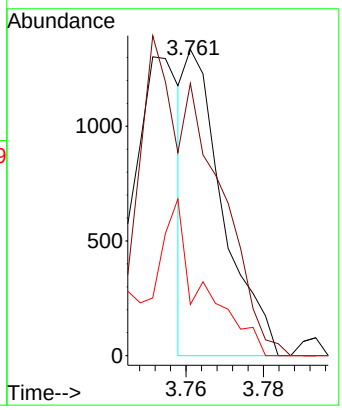


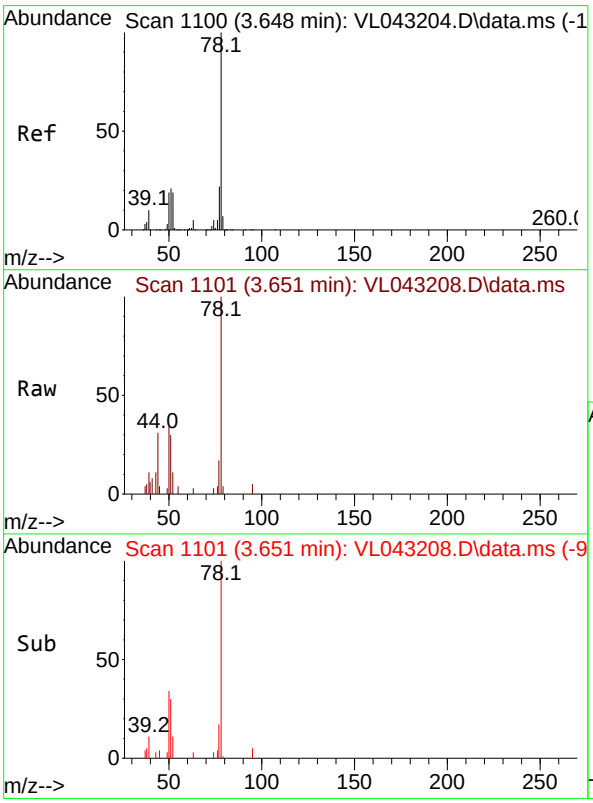
#35
Carbon Tetrachloride
Concen: 0.043 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:117 Resp: 901

Ion	Ratio	Lower	Upper
117	100		
119	85.0	74.6	112.0
121	16.7	23.2	34.8#

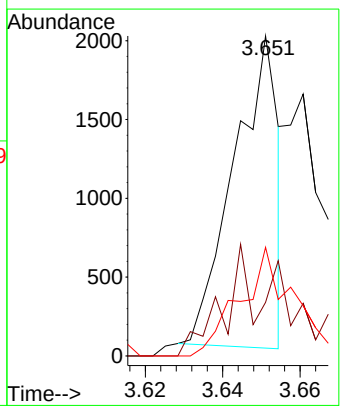


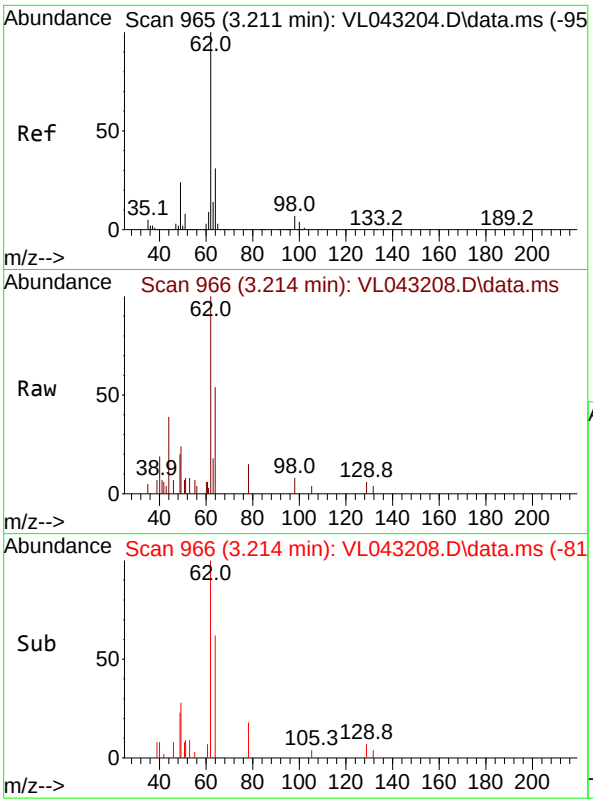


#36
Benzene
Concen: 0.060 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 78 Resp: 1569

Ion	Ratio	Lower	Upper
78	100		
77	17.4	17.5	26.3#
50	35.3	15.5	23.3#



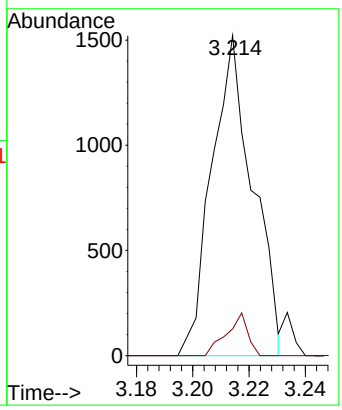


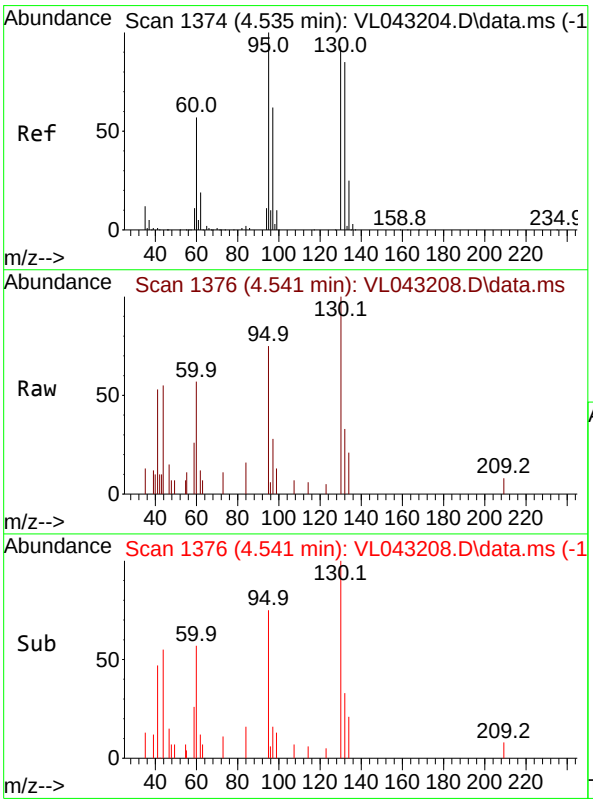
#37
1,2-Dichloroethane
Concen: 0.100 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 62 Resp: 1537

Ion	Ratio	Lower	Upper
62	100		
98	6.9	5.5	8.3

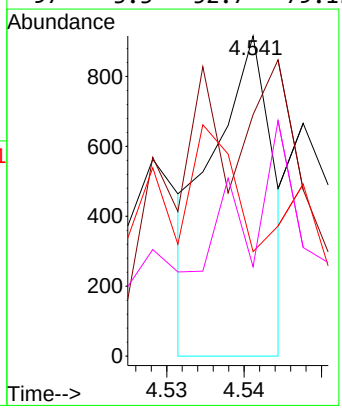


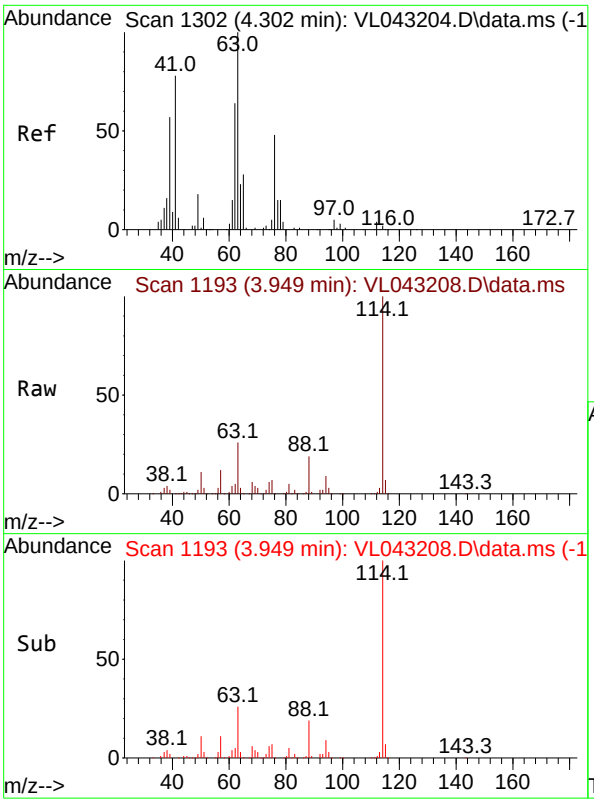


#38
Trichloroethene
Concen: 0.049 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:130 Resp: 502

Ion	Ratio	Lower	Upper
130	100		
95	61.3	85.7	128.5#
132	0.0	73.4	110.0#
97	3.3	52.7	79.1#



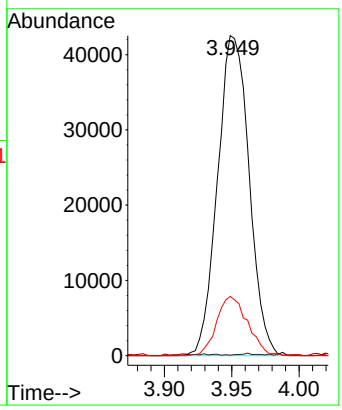


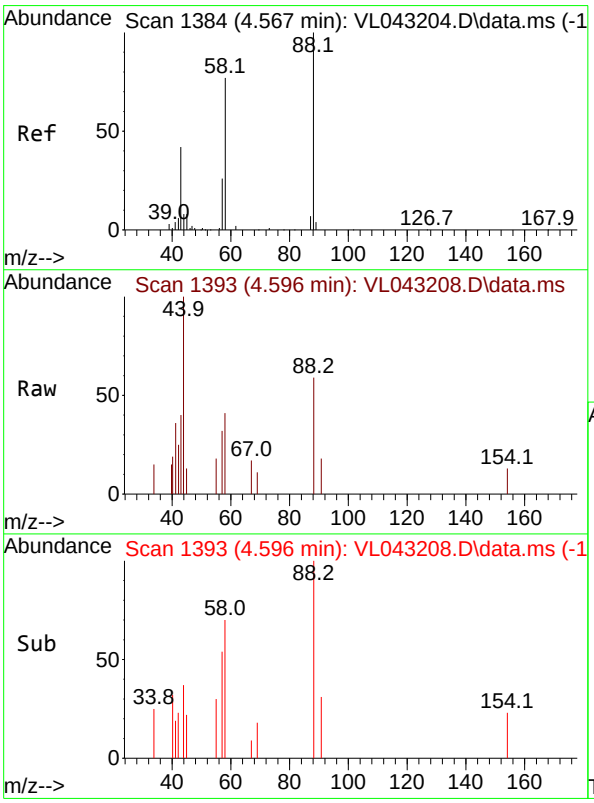
#39
1,2-Dichloropropane
Concen: 7.207 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.353 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 63 Resp: 69214

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.6	93.8#
62	18.5	51.0	76.6#

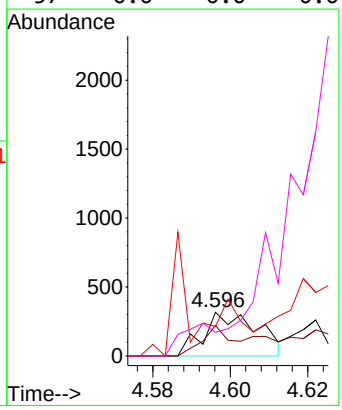


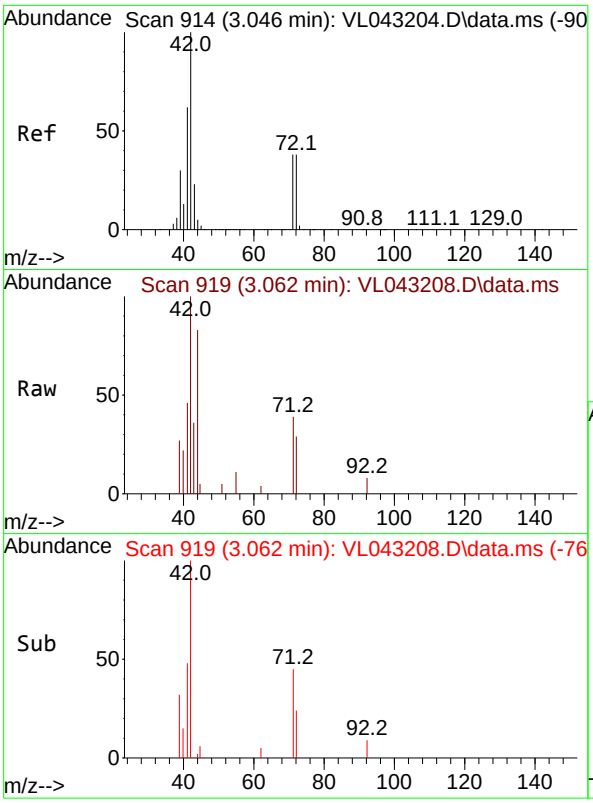


#40
1,4-Dioxane
Concen: 0.071 ppbv
RT: 4.596 min Scan# 1393
Delta R.T. 0.029 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 88 Resp: 308

Ion	Ratio	Lower	Upper
88	100		
58	70.8	63.0	94.6
43	182.8	32.5	48.7#
57	0.0	0.0	0.0



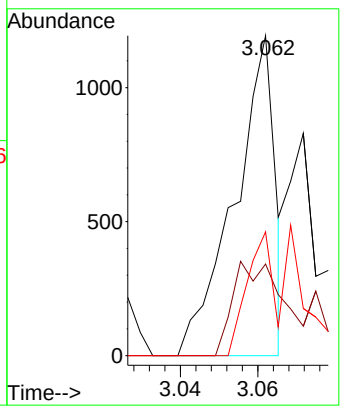


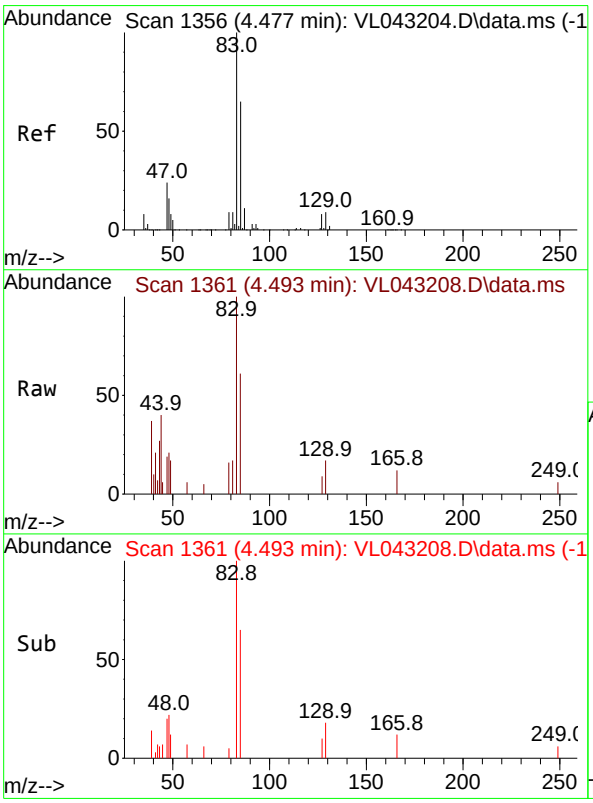
#41
Tetrahydrofuran
Concen: 0.081 ppbv
RT: 3.062 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 42 Resp: 868

Ion	Ratio	Lower	Upper
42	100		
72	46.2	30.6	46.0#
71	0.0	30.5	45.7#

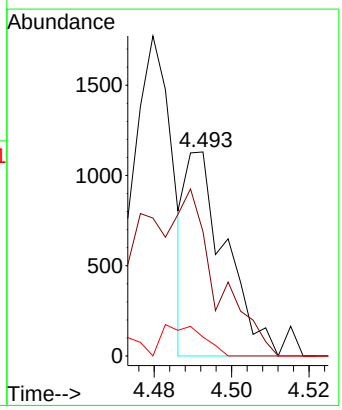


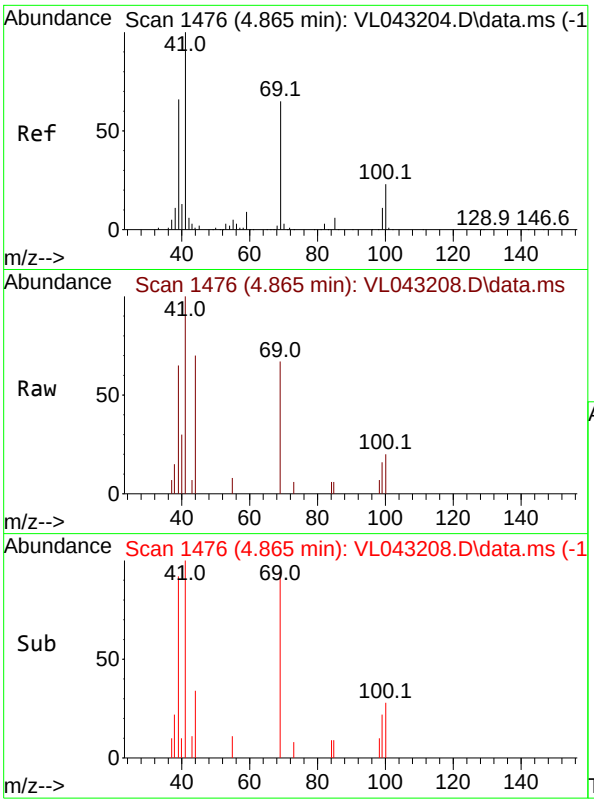


#42
Bromodichloromethane
Concen: 0.038 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.016 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 83 Resp: 806

Ion	Ratio	Lower	Upper
83	100		
85	61.0	51.7	77.5
127	9.3	6.3	9.5



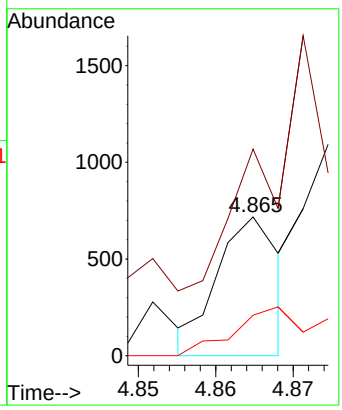


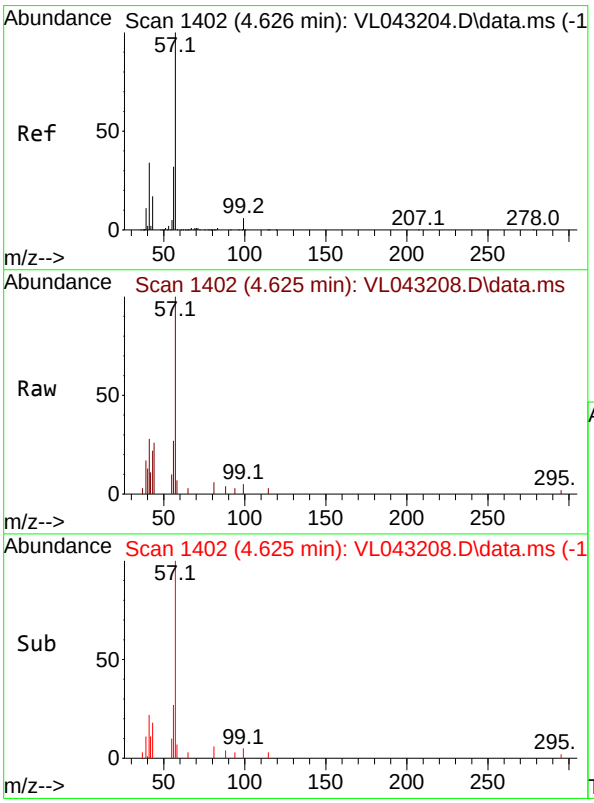
#43
Methyl Methacrylate
Concen: 0.028 ppbv
RT: 4.865 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 69 Resp: 396

Ion	Ratio	Lower	Upper
69	100		
41	0.0	126.7	190.1#
100	0.0	28.6	43.0#

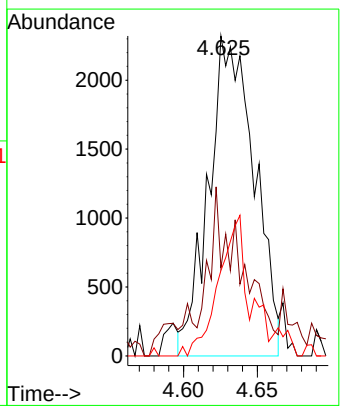


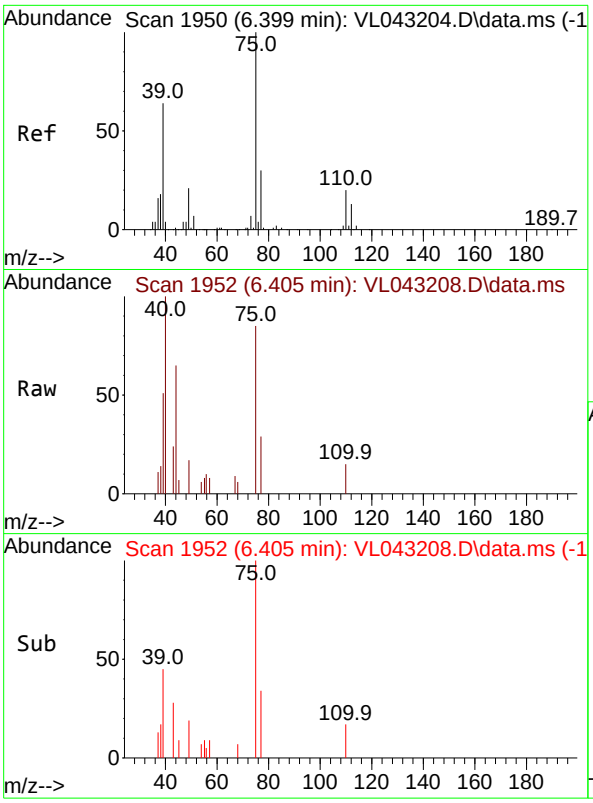


#44
2,2,4-Trimethylpentane
Concen: 0.110 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 57 Resp: 4980

Ion	Ratio	Lower	Upper
57	100		
41	54.9	28.0	42.0#
56	32.9	25.6	38.4



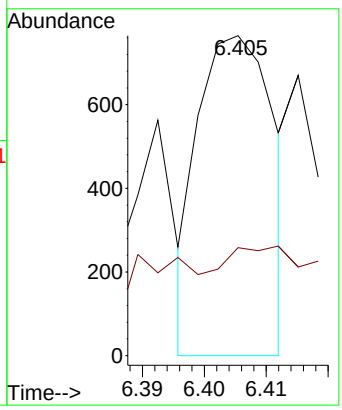


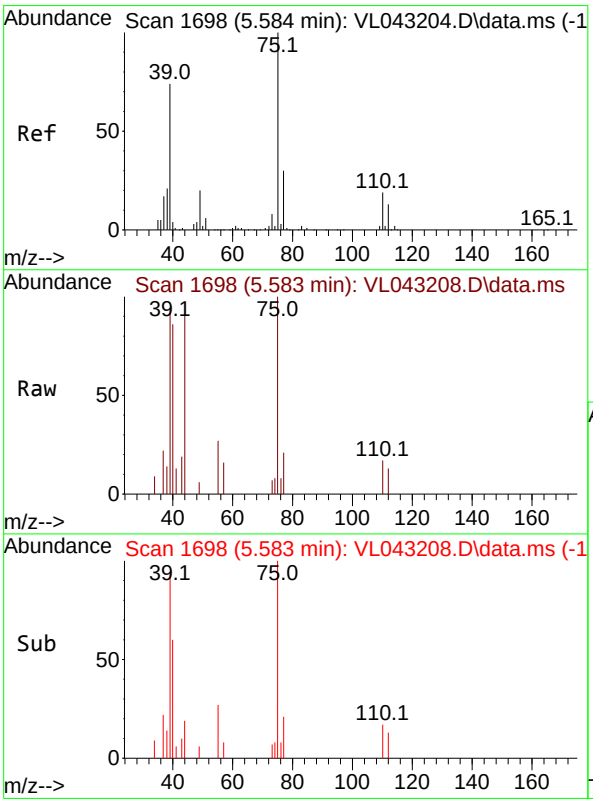
#45
t-1,3-Dichloropropene
Concen: 0.050 ppbv
RT: 6.405 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 75 Resp: 645

Ion	Ratio	Lower	Upper
75	100		
77	33.7	24.3	36.5

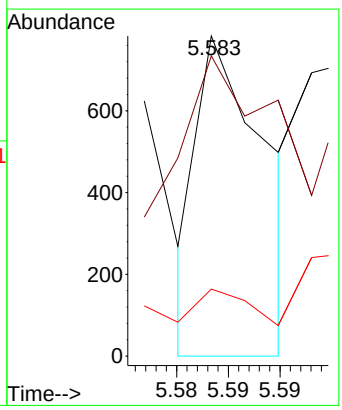


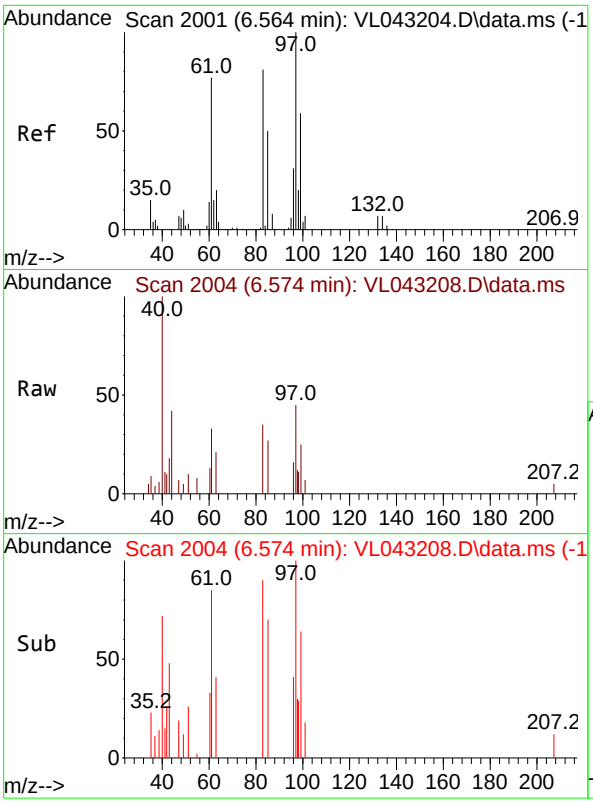


#46
cis-1,3-Dichloropropene
Concen: 0.024 ppbv
RT: 5.583 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 75 Resp: 359

Ion	Ratio	Lower	Upper
75	100		
39	48.3	59.1	88.7#
77	17.3	24.2	36.2#



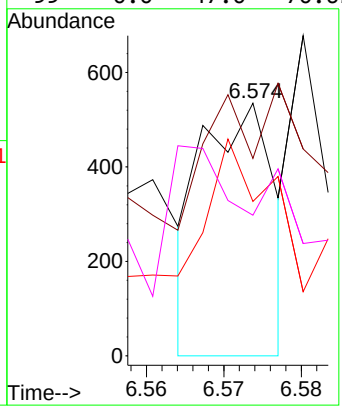


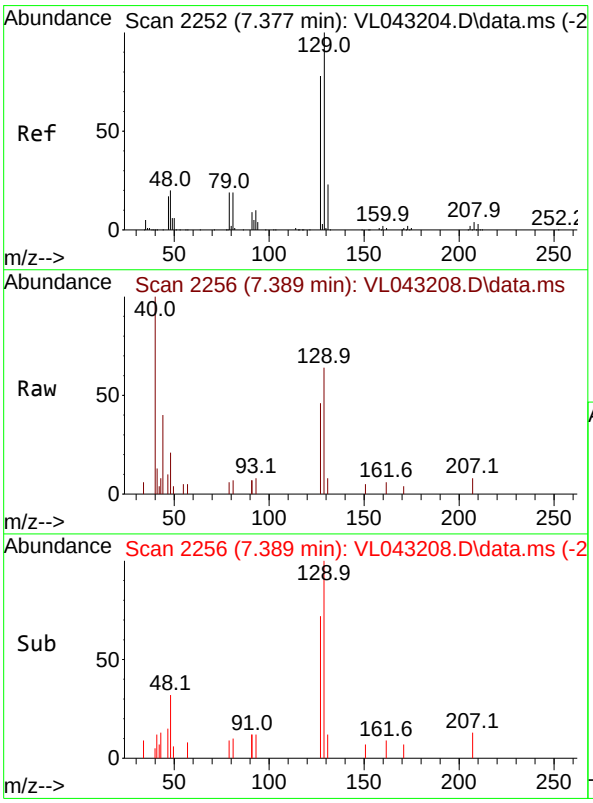
#47
1,1,2-Trichloroethane
Concen: 0.034 ppbv
RT: 6.574 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 97 Resp: 347

Ion	Ratio	Lower	Upper
97	100		
83	37.9	64.6	97.0#
85	39.4	39.4	59.2#
99	0.0	47.0	70.6#

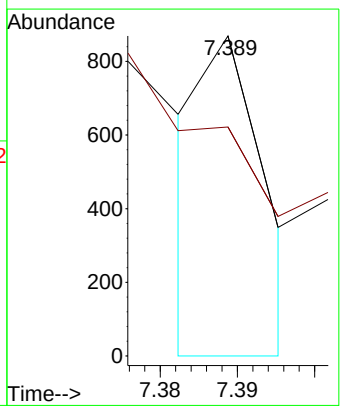


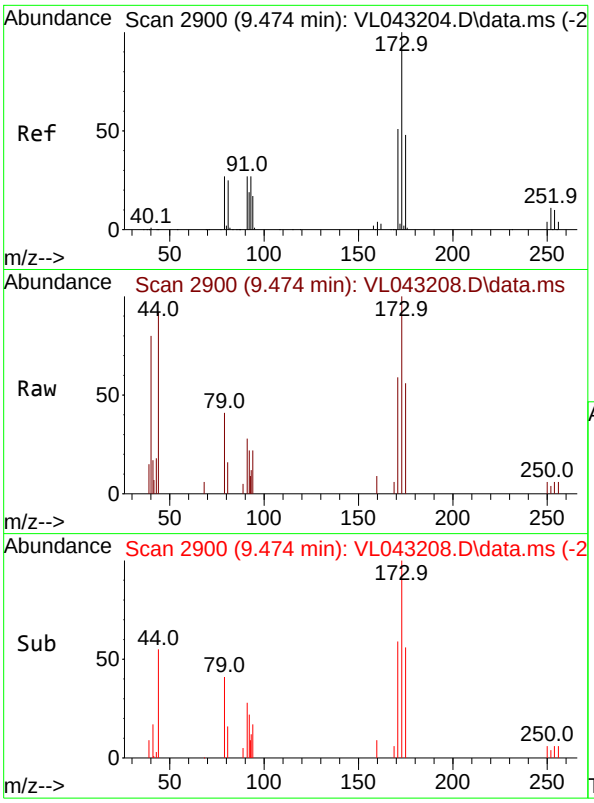


#48
Dibromochloromethane
Concen: 0.014 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.013 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:129 Resp: 237

Ion	Ratio	Lower	Upper
129	100		
127	547.7	39.3	117.9#



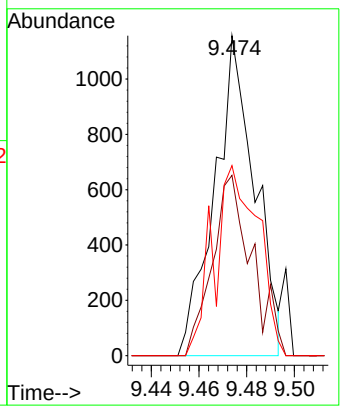


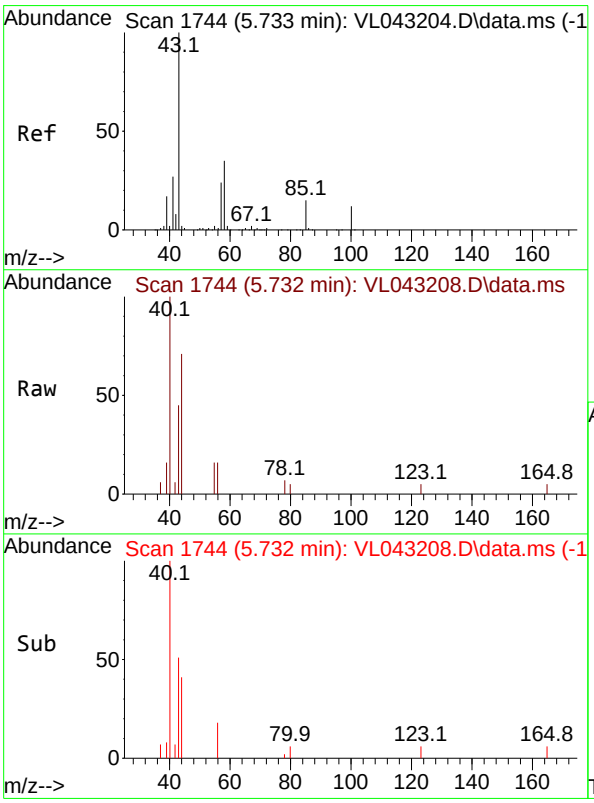
#49
Bromoform
Concen: 0.087 ppbv
RT: 9.474 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:173 Resp: 1357

Ion	Ratio	Lower	Upper
173	100		
175	55.2	38.6	58.0
171	65.3	40.6	61.0#

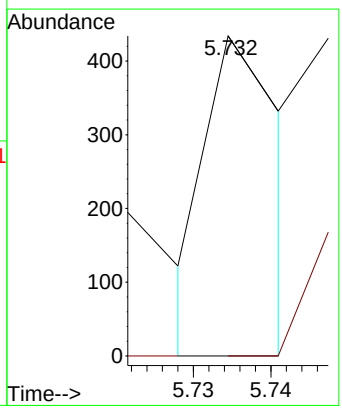


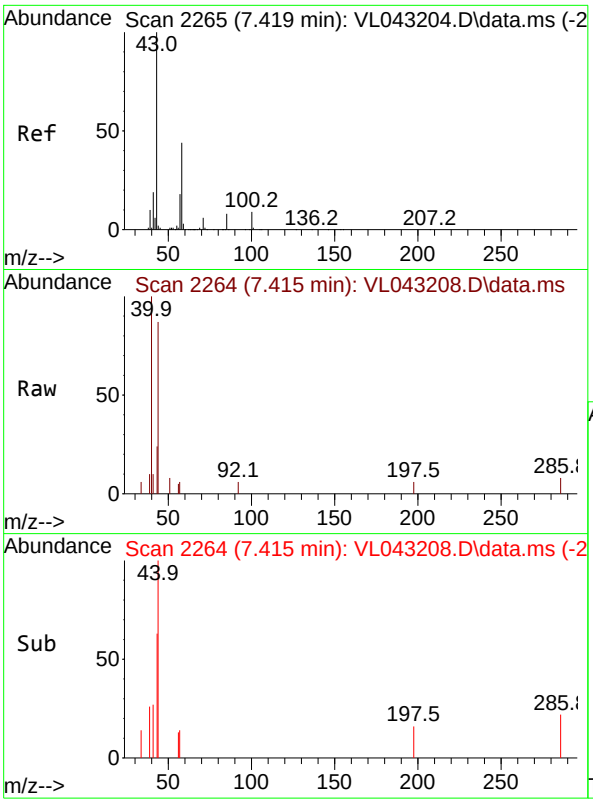


#50
4-Methyl-2-Pentanone
Concen: 0.005 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 43 Resp: 149

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#



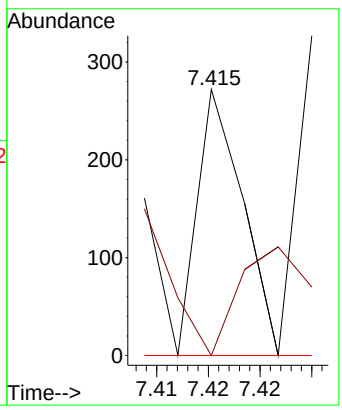


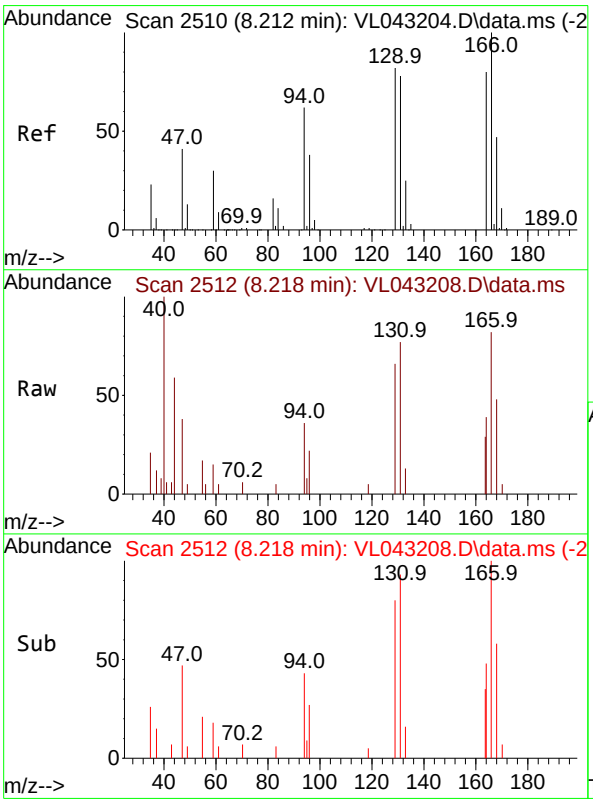
#51
2-Hexanone
Concen: 0.004 ppbv
RT: 7.415 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 43 Resp: 83

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.4	57.6#
98	0.0	0.0	0.0

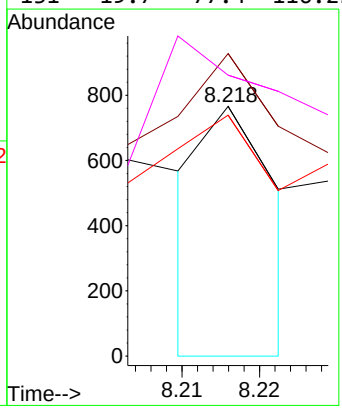


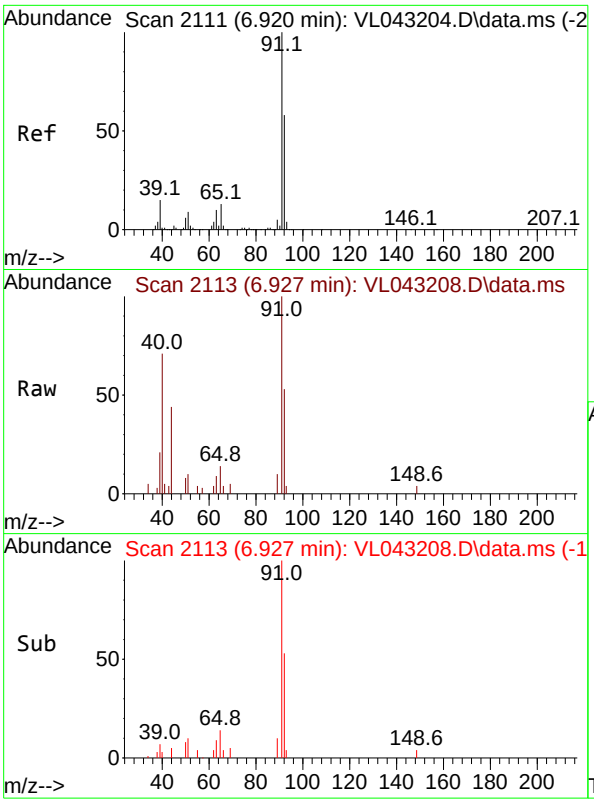


#52
Tetrachloroethene
Concen: 0.025 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:164 Resp: 248

Ion	Ratio	Lower	Upper
164	100		
166	87.8	99.4	149.2#
129	90.9	81.8	122.8
131	19.7	77.4	116.2#



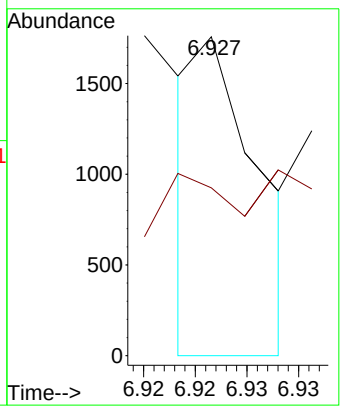


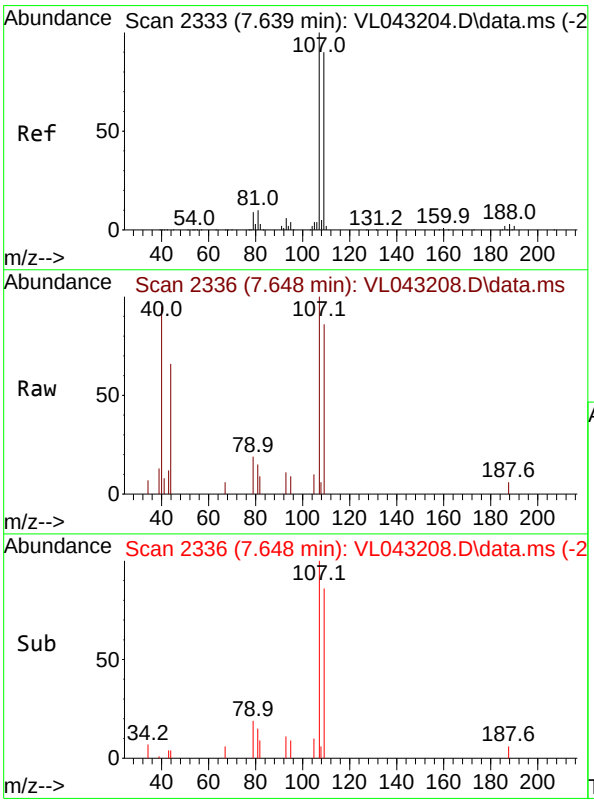
#53
Toluene
Concen: 0.023 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 734

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#

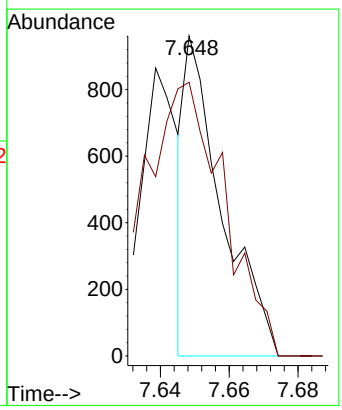


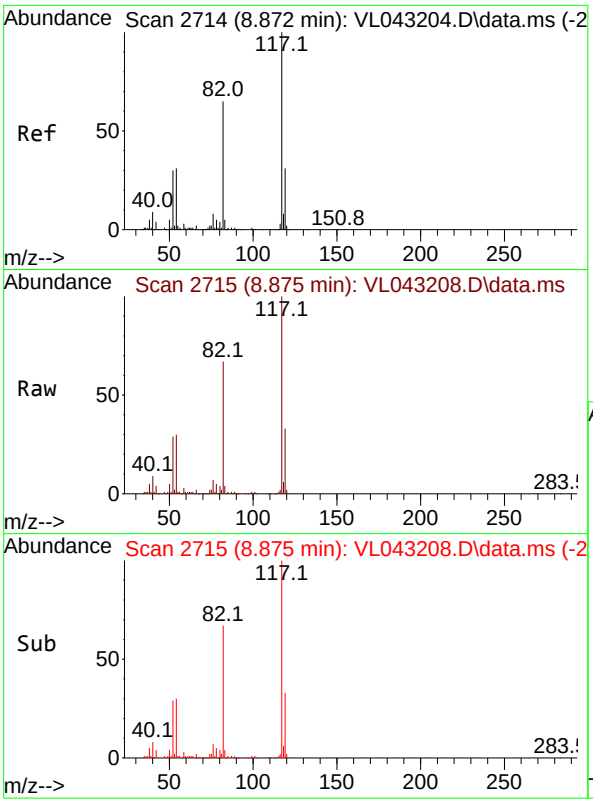


#54
1,2-Dibromoethane
Concen: 0.048 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.009 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:107 Resp: 719

Ion	Ratio	Lower	Upper
107	100		
109	85.5	72.1	108.1



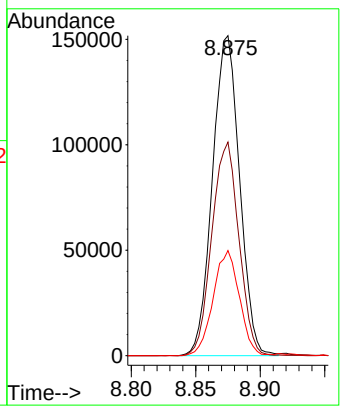


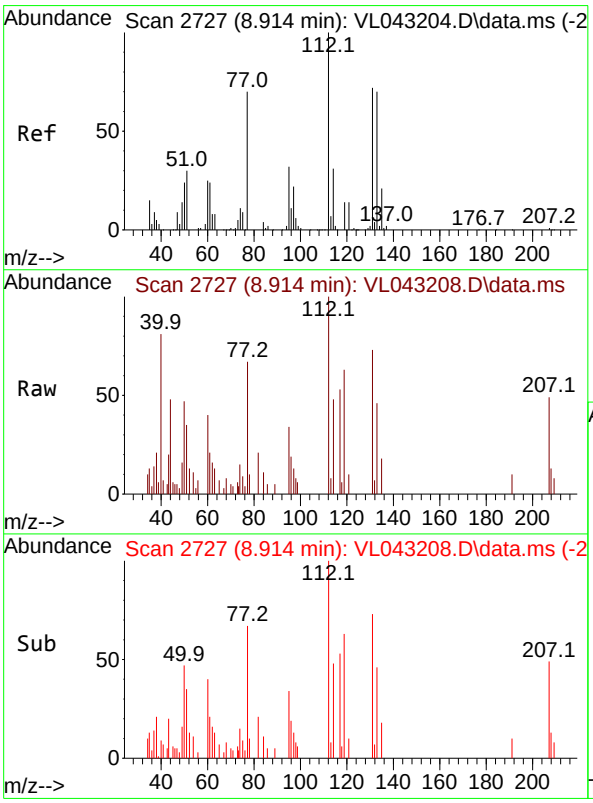
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:117 Resp: 222034

Ion	Ratio	Lower	Upper
117	100		
82	66.4	56.1	84.1
119	32.2	25.0	37.6

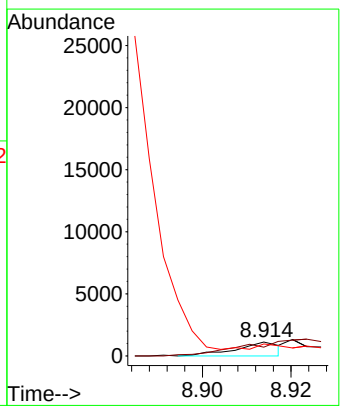


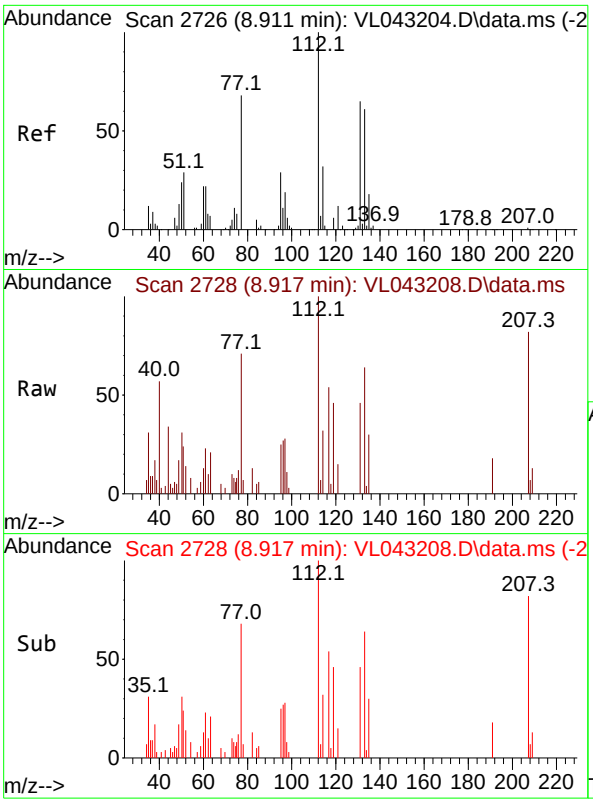


#56
1,1,1,2-Tetrachloroethane
Concen: 0.047 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:131 Resp: 760

Ion	Ratio	Lower	Upper
131	100		
133	0.0	77.4	116.2#
119	0.0	49.1	73.7#



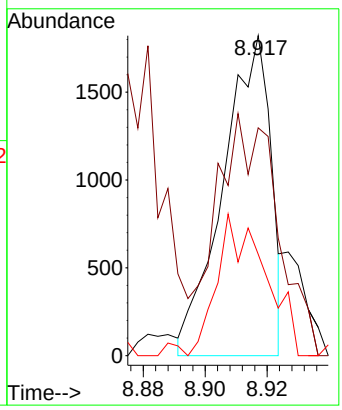


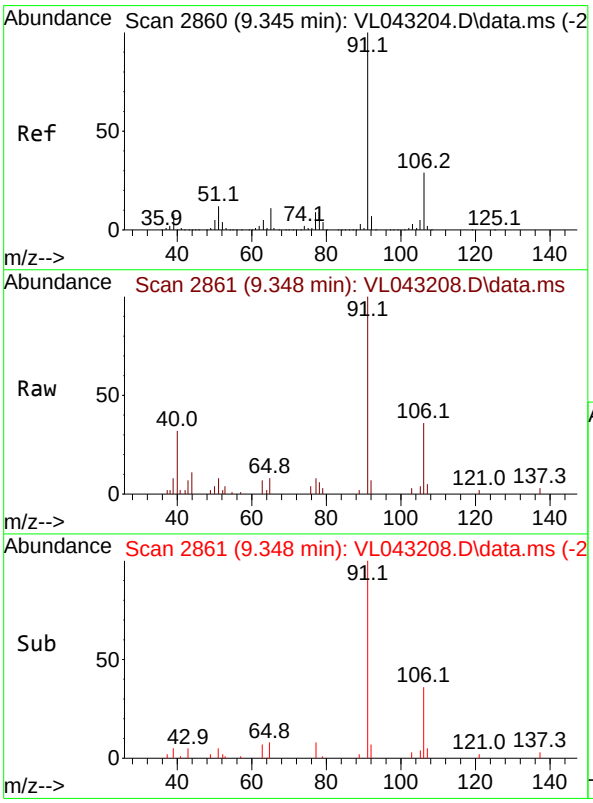
#57
Chlorobenzene
Concen: 0.086 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:112 Resp: 1955

Ion	Ratio	Lower	Upper
112	100		
77	48.2	55.5	83.3#
114	30.3	29.1	35.5

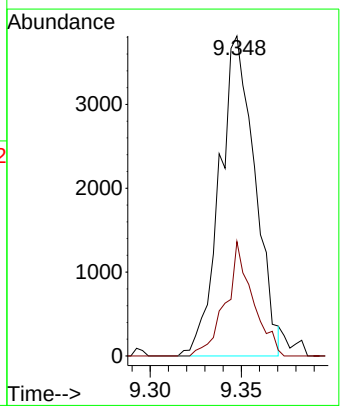


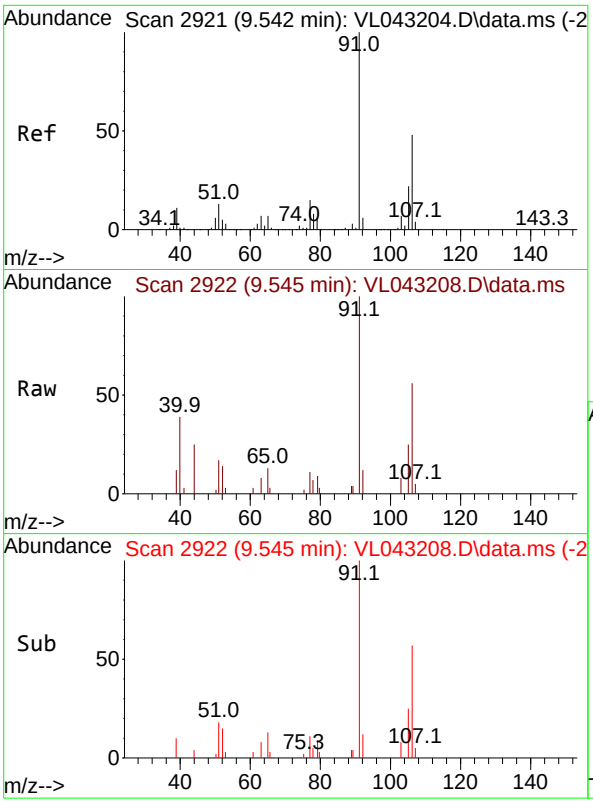


#58
Ethyl Benzene
Concen: 0.121 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 91 Resp: 5157

Ion	Ratio	Lower	Upper
91	100		
106	35.7	22.8	34.2#



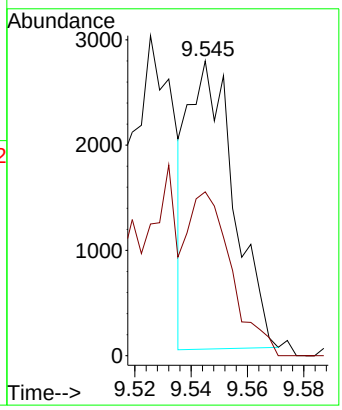


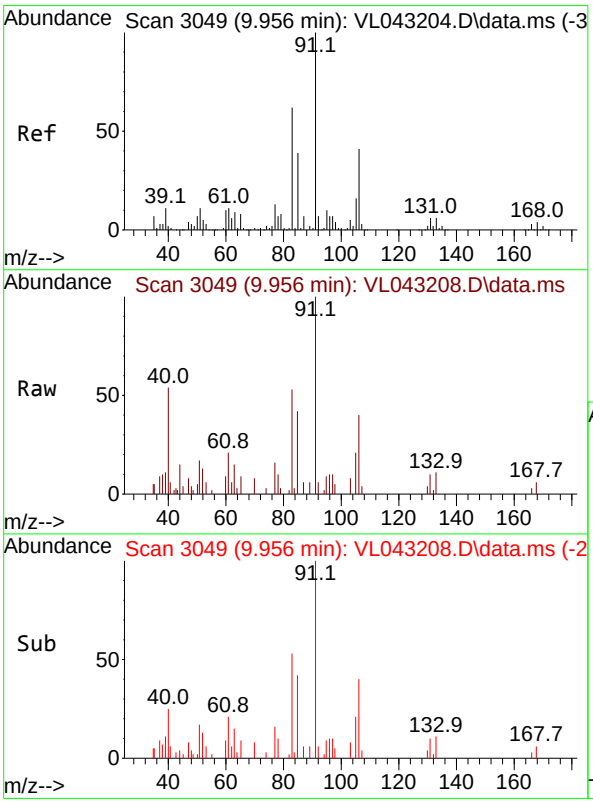
#59
m/p-Xylene
Concen: 0.090 ppbv
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 3099

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#

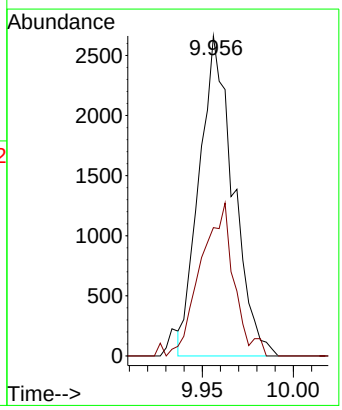


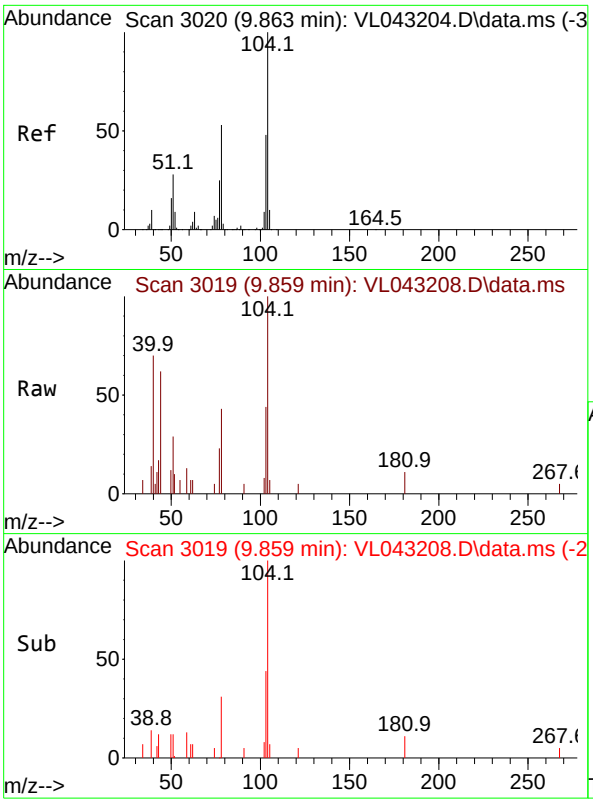


#60
o-Xylene
Concen: 0.101 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 91 Resp: 3453

Ion	Ratio	Lower	Upper
91	100		
106	47.5	20.9	62.8



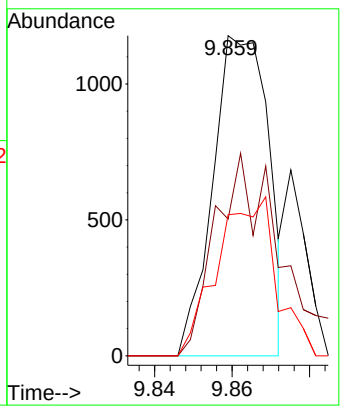


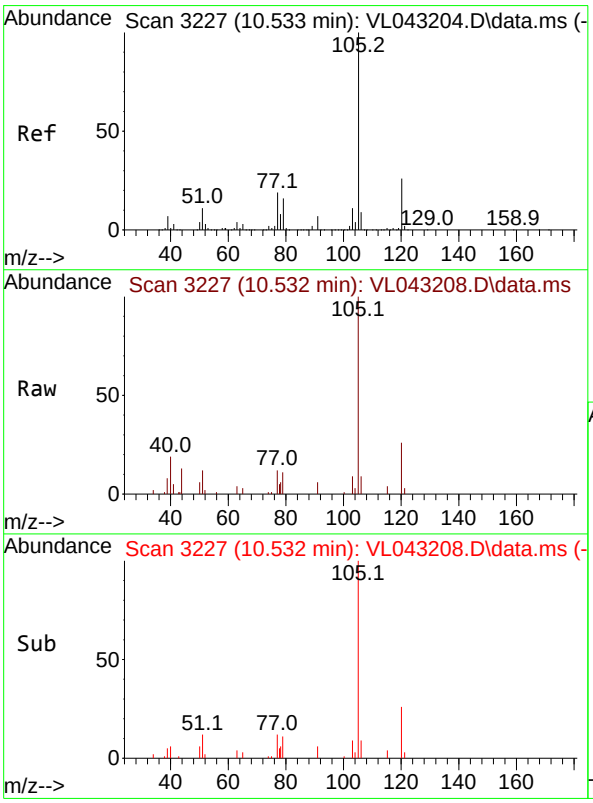
#61
Styrene
Concen: 0.079 ppbv
RT: 9.859 min Scan# 3
Delta R.T. -0.004 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:104 Resp: 1176

Ion	Ratio	Lower	Upper
104	100		
78	77.0	42.1	63.1#
103	0.0	37.2	55.8#

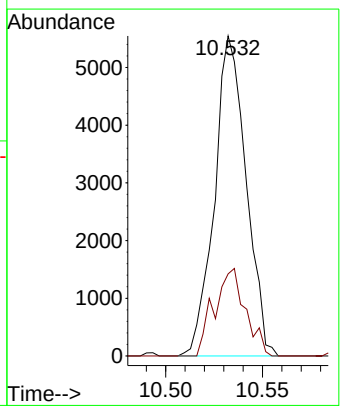


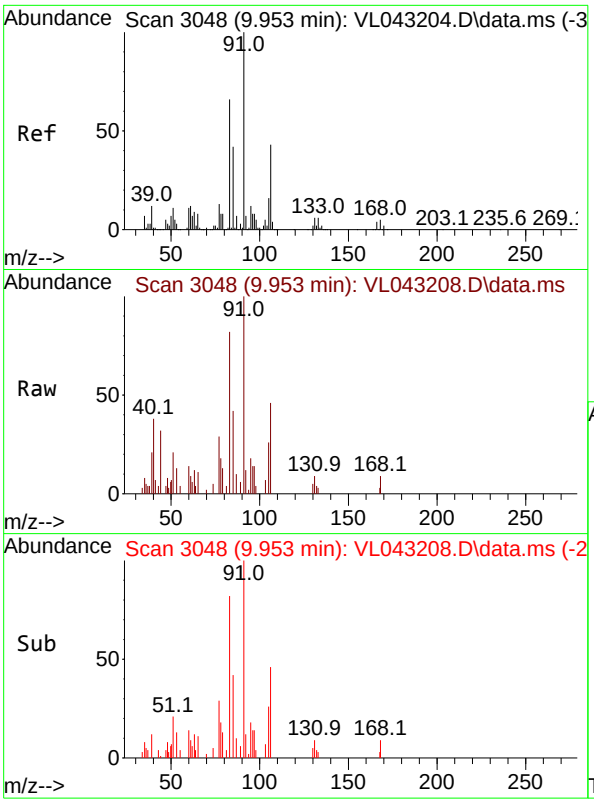


#62
Isopropylbenzene
Concen: 0.103 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:105 Resp: 6313

Ion	Ratio	Lower	Upper
105	100		
120	26.9	19.8	29.8



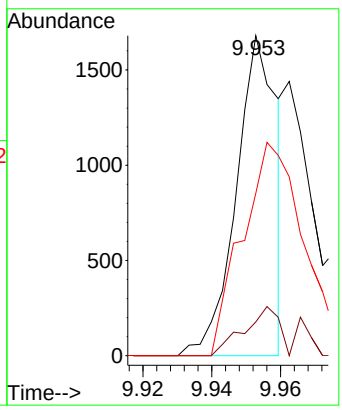


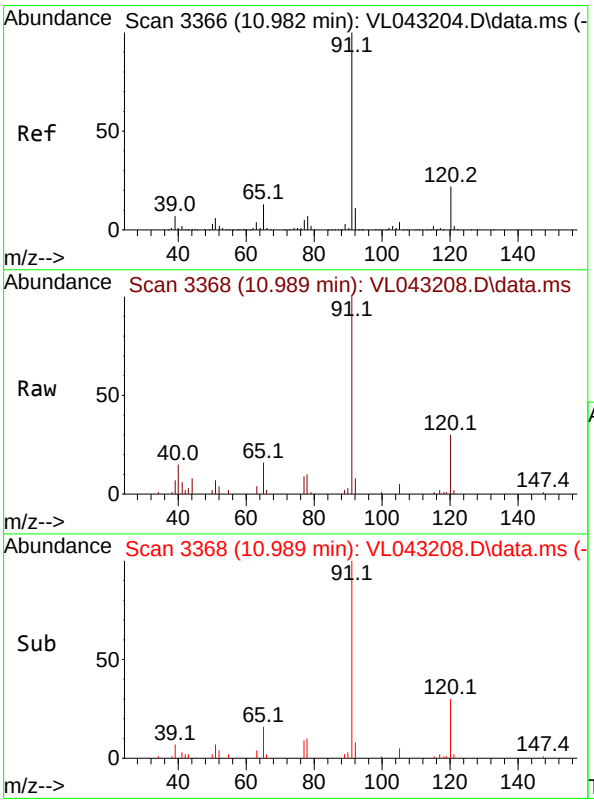
#63
1,1,2,2-Tetrachloroethane
Concen: 0.064 ppbv
RT: 9.953 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 83 Resp: 1380

Ion	Ratio	Lower	Upper
83	100		
131	17.4	4.8	14.3#
85	99.1	31.9	95.9#

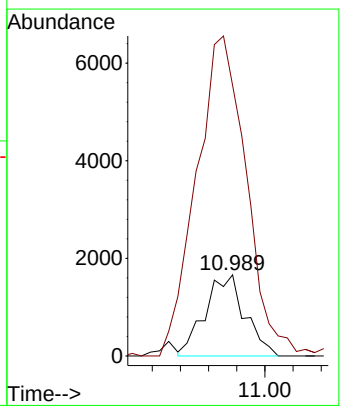


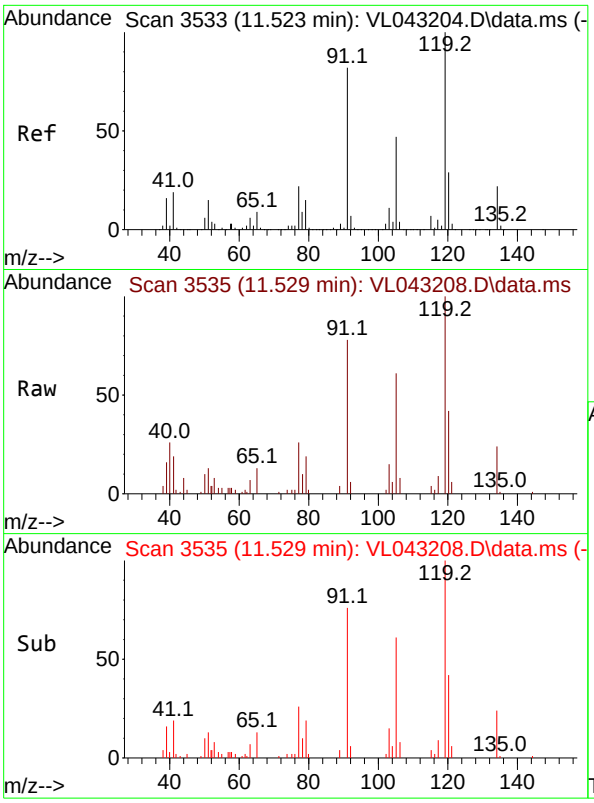


#64
n-propylbenzene
Concen: 0.104 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:120 Resp: 1635

Ion	Ratio	Lower	Upper
120	100		
91	507.0	377.1	565.7



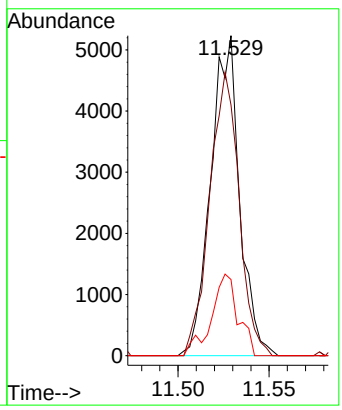


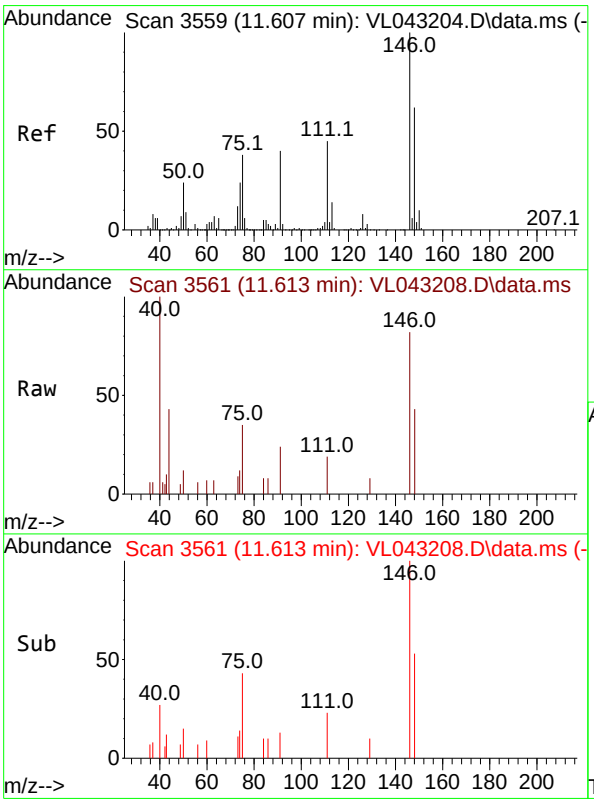
#65
tert-Butylbenzene
Concen: 0.105 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:119 Resp: 5745

Ion	Ratio	Lower	Upper
119	100		
91	90.4	65.3	97.9
134	23.6	17.0	25.4

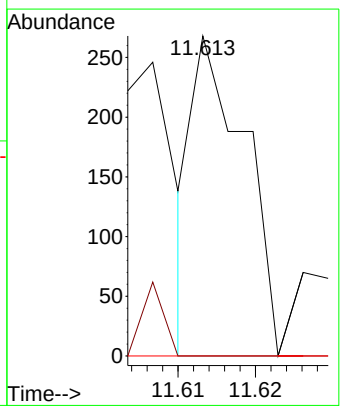


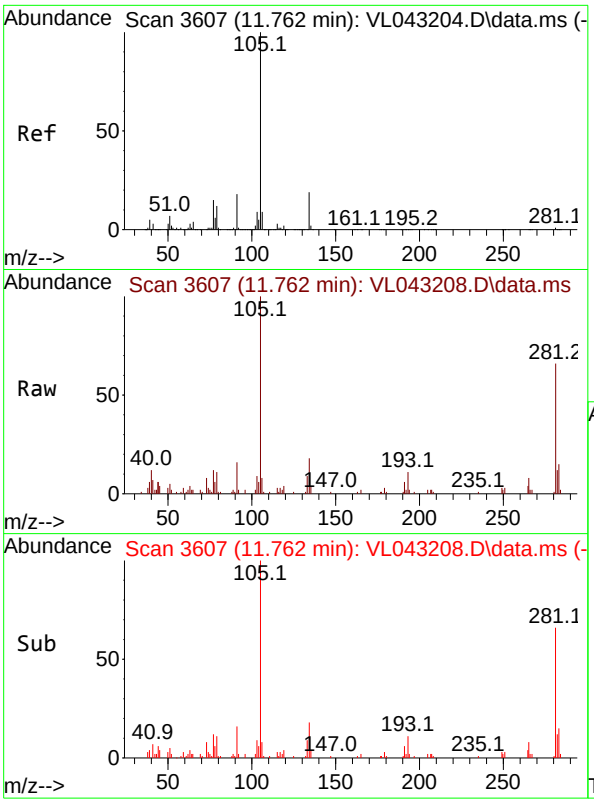


#66
Benzyl Chloride
Concen: 0.023 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 91 Resp: 125

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.4	21.6#
128	0.0	4.6	6.8#



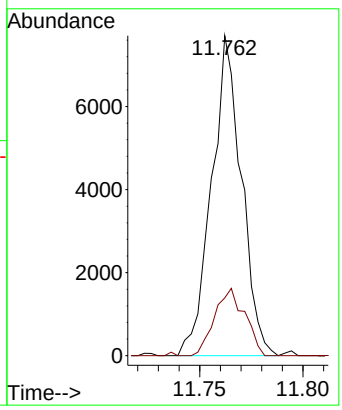


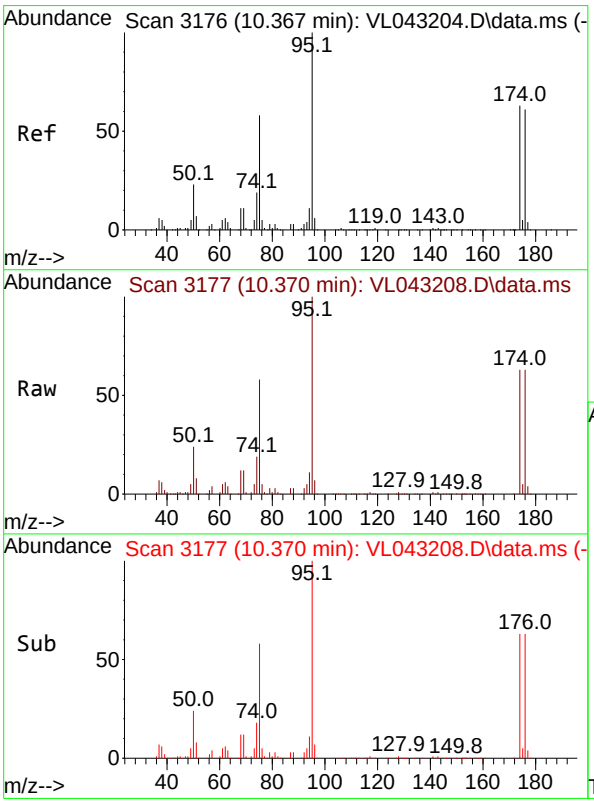
#67
sec-Butylbenzene
Concen: 0.102 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 7764

Ion	Ratio	Lower	Upper
105	100		
134	21.5	15.0	22.6

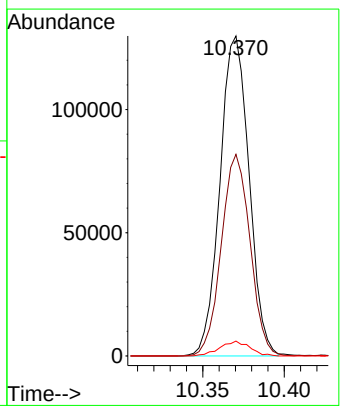


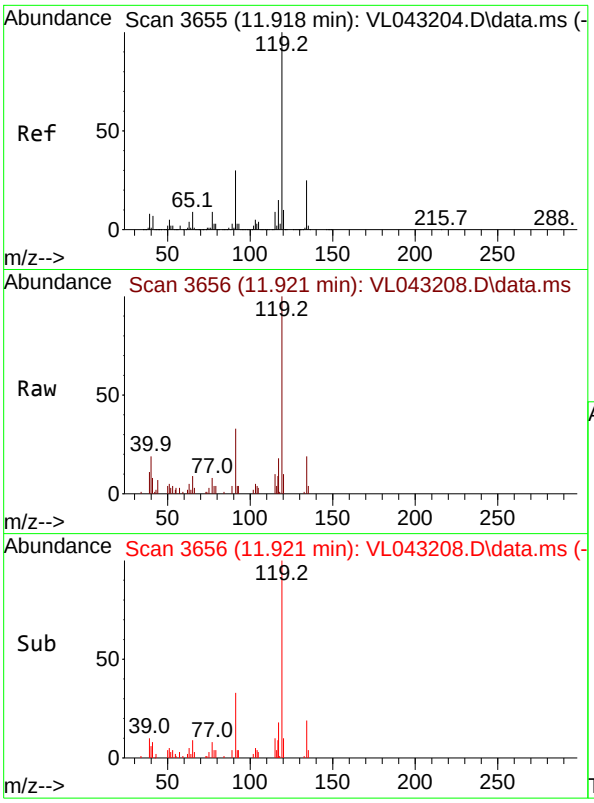


#68
1-Bromo-4-Fluorobenzene
Concen: 9.890 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 95 Resp: 160968

Ion	Ratio	Lower	Upper
95	100		
174	62.5	50.2	75.2
175	4.8	4.1	6.1



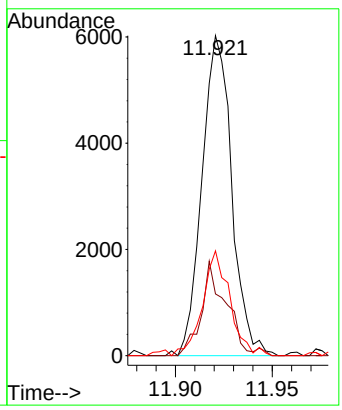


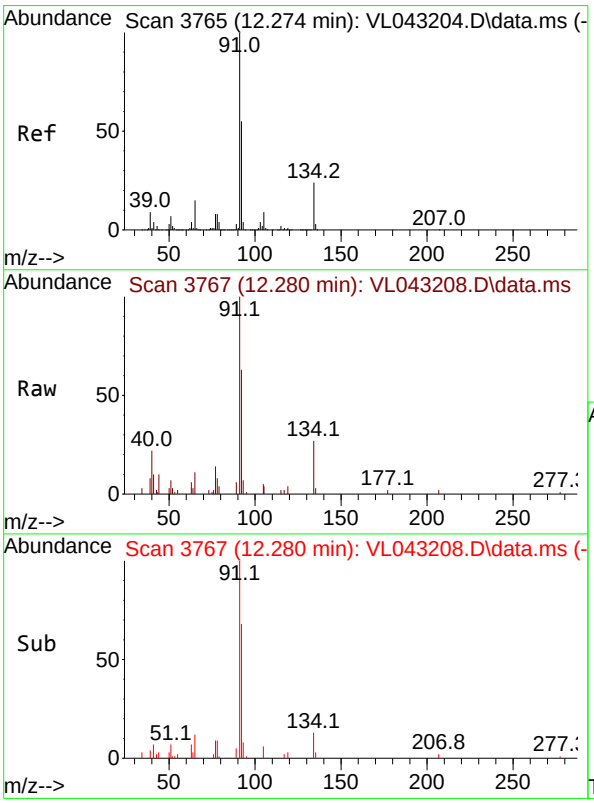
#69
p-Isopropyltoluene
Concen: 0.099 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:119 Resp: 6425

Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.2	30.2
91	30.8	23.8	35.8

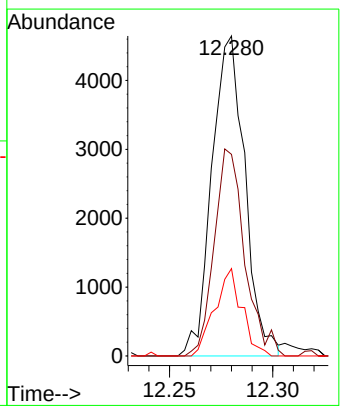


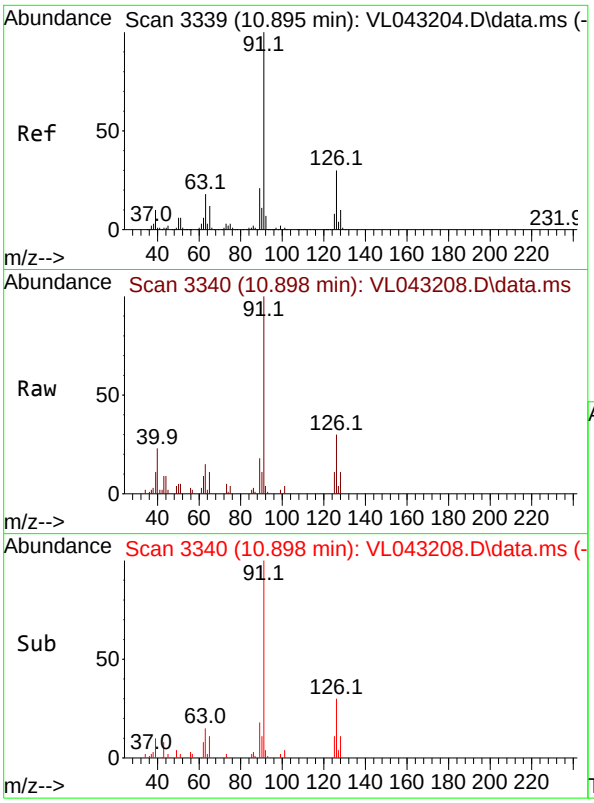


#70
n-Butylbenzene
Concen: 0.082 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion: 91 Resp: 5160

Ion	Ratio	Lower	Upper
91	100		
92	60.4	43.5	65.3
134	22.5	19.0	28.6



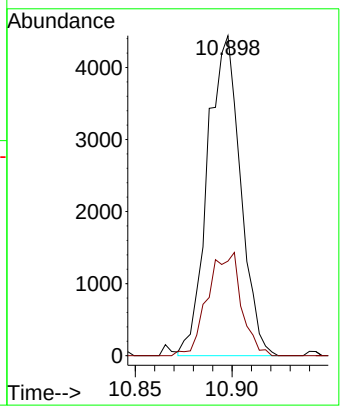


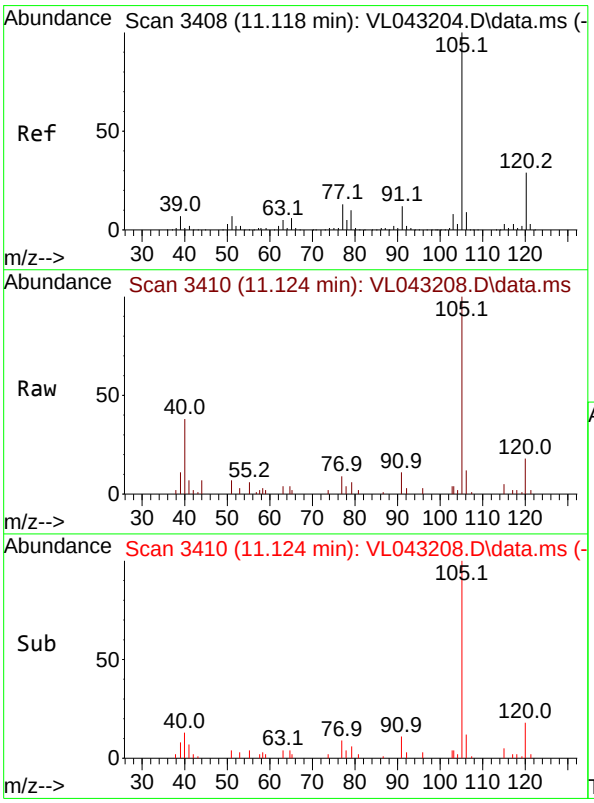
#71
2-Chlorotoluene
Concen: 0.111 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 91 Resp: 5248

Ion	Ratio	Lower	Upper
91	100		
126	32.9	11.7	46.7

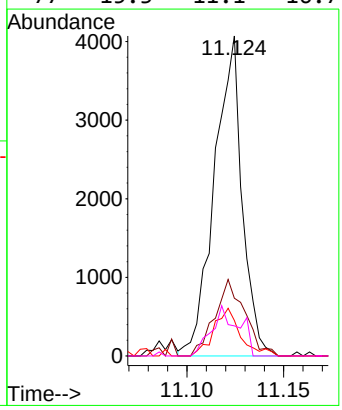


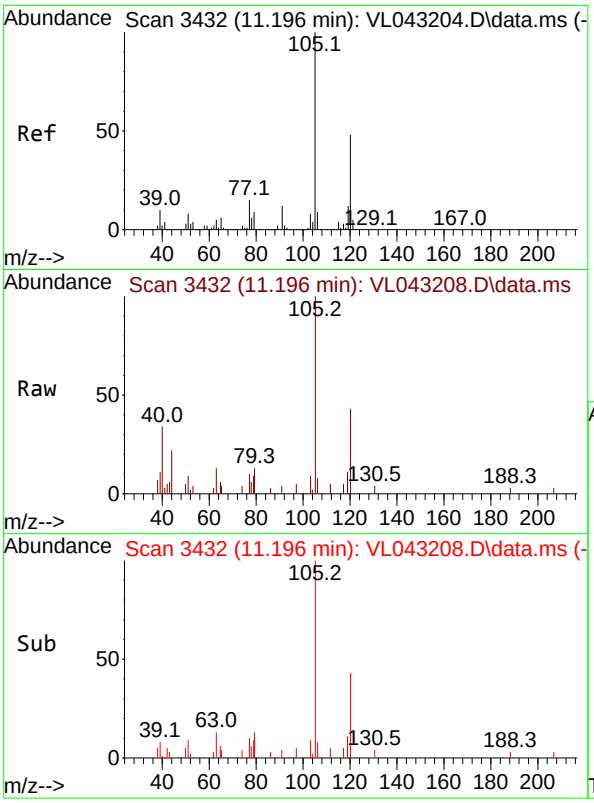


#72
4-Ethyltoluene
Concen: 0.097 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:105 Resp: 4061

Ion	Ratio	Lower	Upper
105	100		
120	27.0	23.8	35.8
91	14.4	10.3	15.5
77	15.3	11.1	16.7



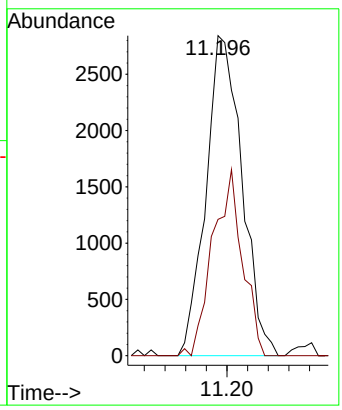


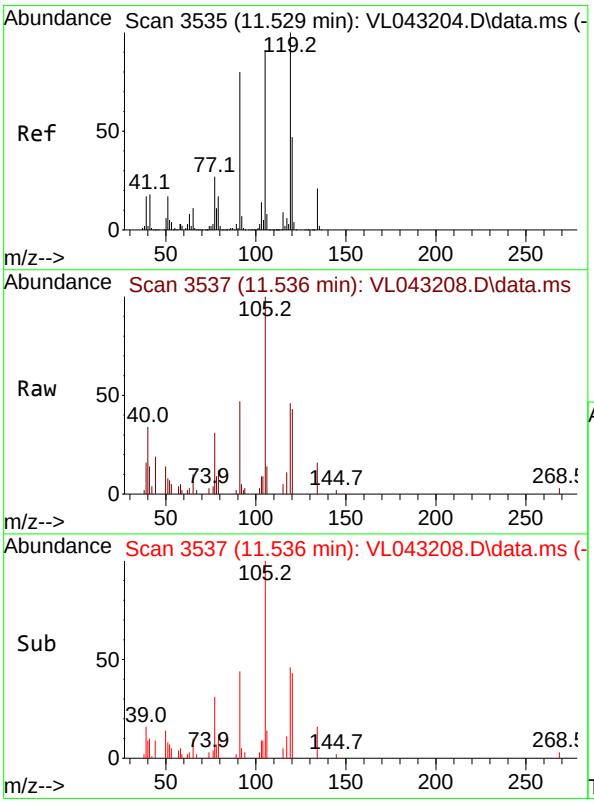
#73
1,3,5-Trimethylbenzene
Concen: 0.098 ppbv
RT: 11.196 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:105 Resp: 3445

Ion	Ratio	Lower	Upper
105	100		
120	42.6	38.6	57.8

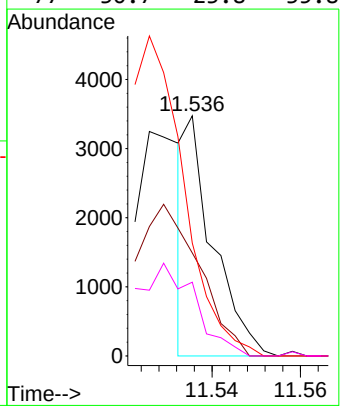


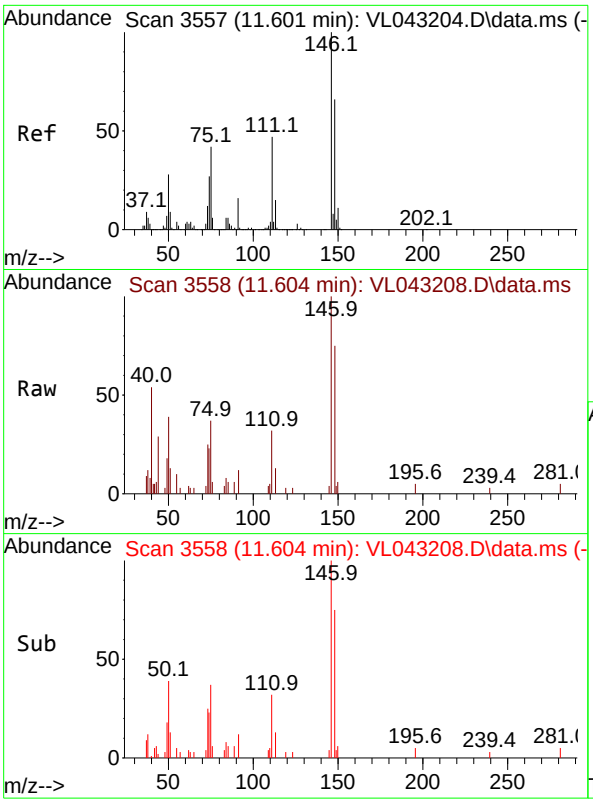


#74
1,2,4-Trimethylbenzene
Concen: 0.039 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.006 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:105 Resp: 1485

Ion	Ratio	Lower	Upper
105	100		
120	42.9	41.7	62.5
91	47.0	70.0	105.0#
77	30.7	23.8	35.8



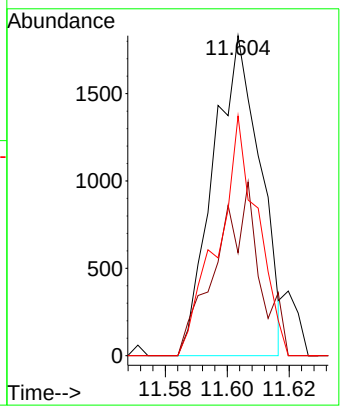


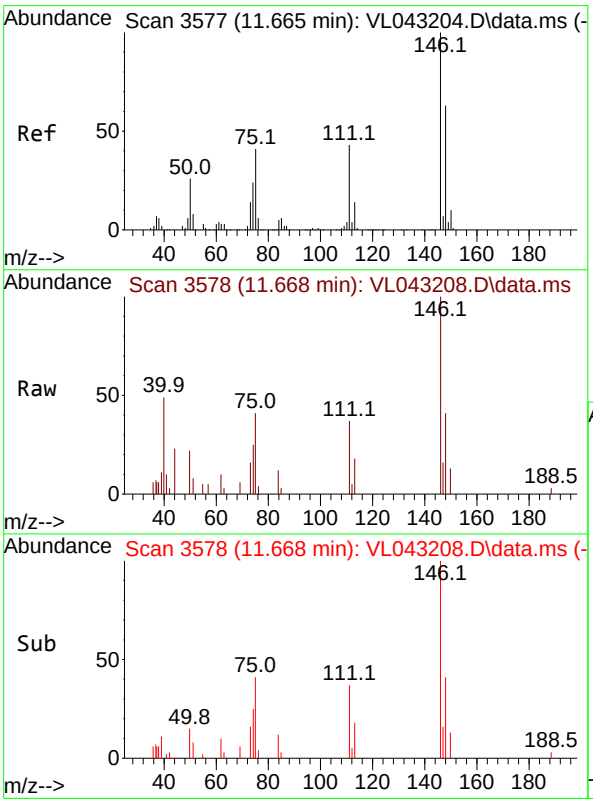
#75
1,3-Dichlorobenzene
Concen: 0.087 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:146 Resp: 1935

Ion	Ratio	Lower	Upper
146	100		
111	49.3	23.4	70.3
148	63.5	31.6	95.0

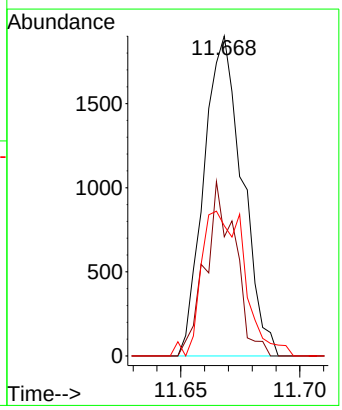


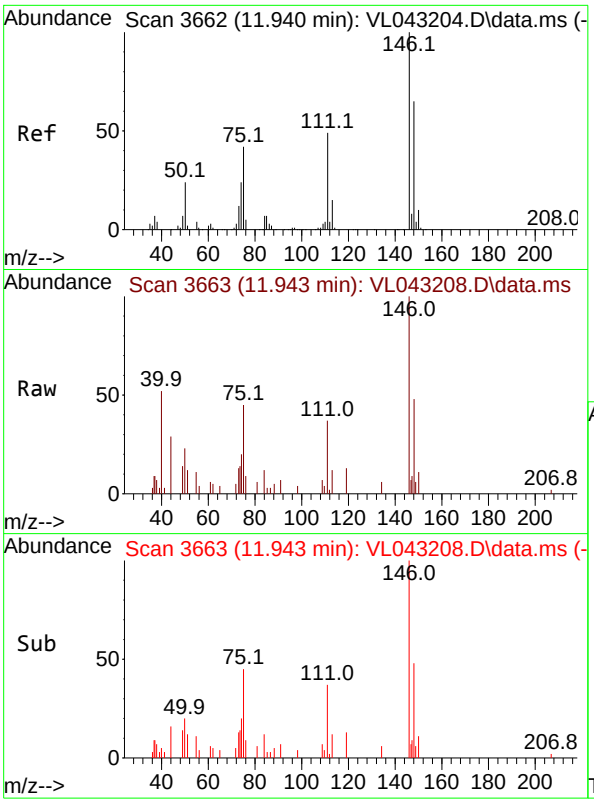


#76
1,4-Dichlorobenzene
Concen: 0.096 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:146 Resp: 2131

Ion	Ratio	Lower	Upper
146	100		
111	42.9	22.8	68.3
148	51.4	31.8	95.4



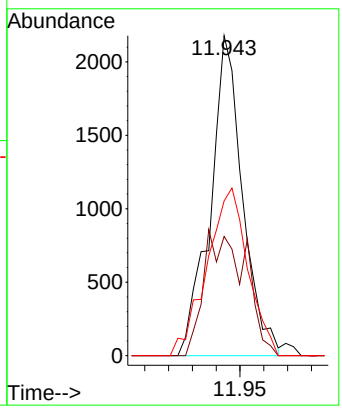


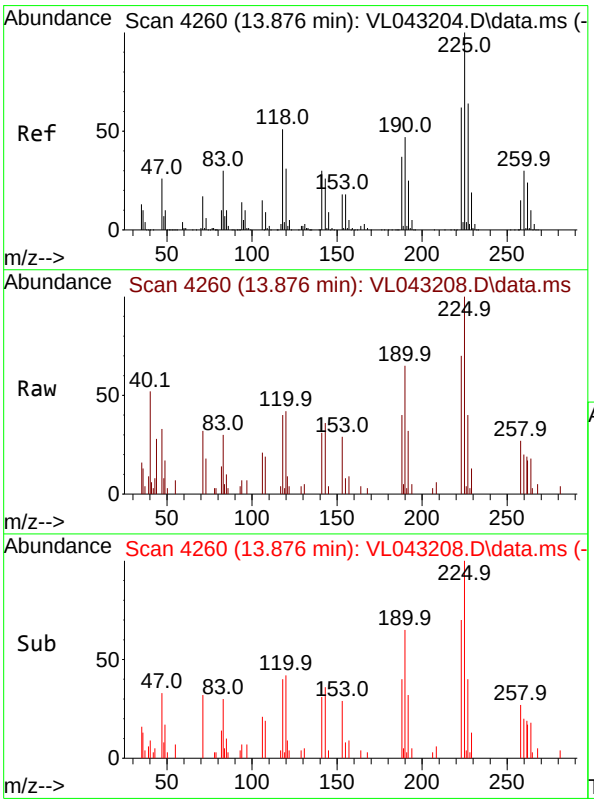
#77
1,2-Dichlorobenzene
Concen: 0.096 ppbv
RT: 11.943 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:146 Resp: 2051

Ion	Ratio	Lower	Upper
146	100		
111	50.8	24.3	73.0
148	66.4	31.6	94.7

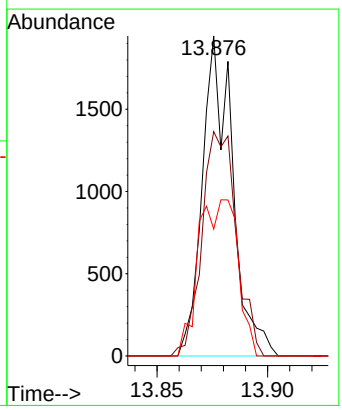


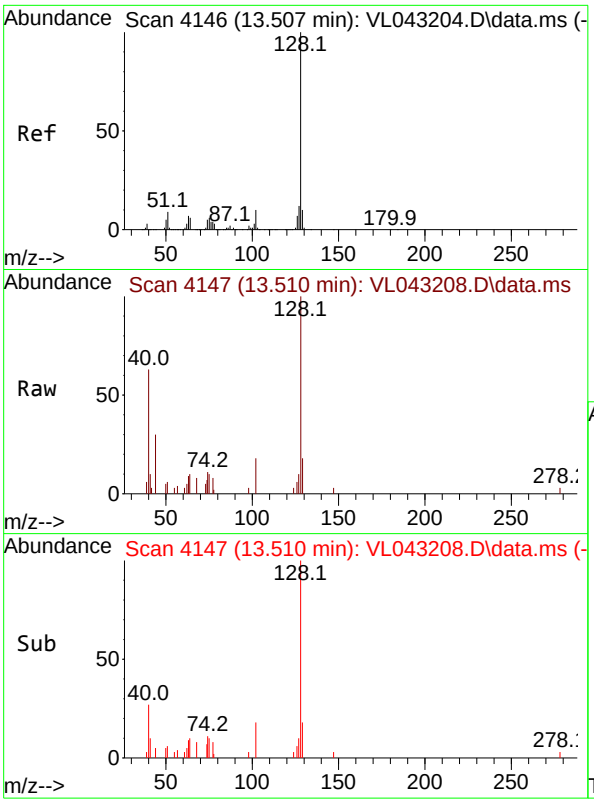


#78
Hexachloro-1,3-Butadiene
Concen: 0.103 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:225 Resp: 1837

Ion	Ratio	Lower	Upper
225	100		
223	79.9	50.2	75.4#
227	64.2	51.1	76.7



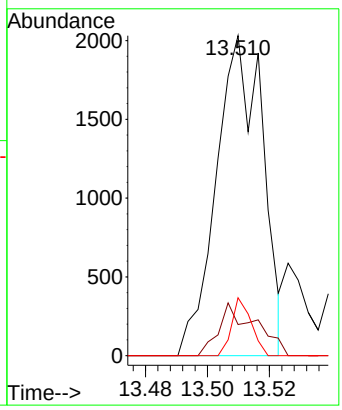


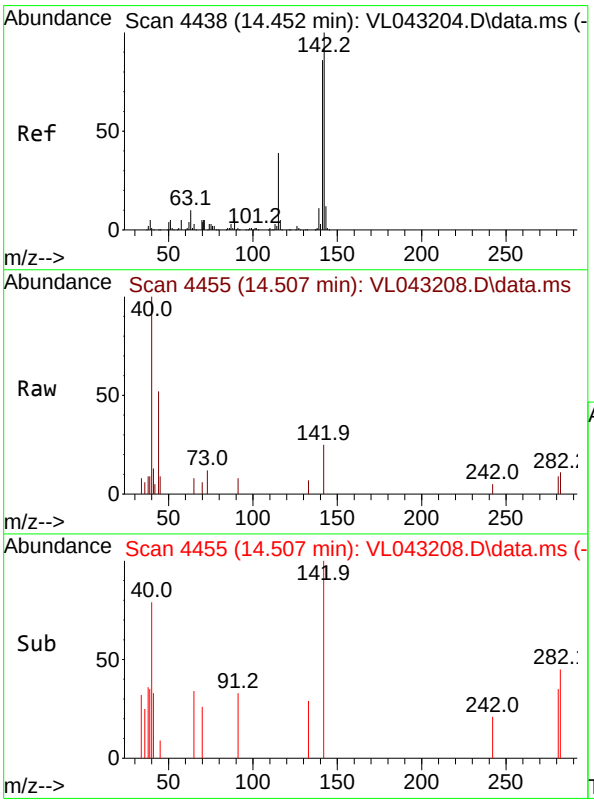
#79
Naphthalene
Concen: 0.062 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:128 Resp: 2112

Ion	Ratio	Lower	Upper
128	100		
127	9.7	9.9	14.9#
129	18.1	8.4	12.6#

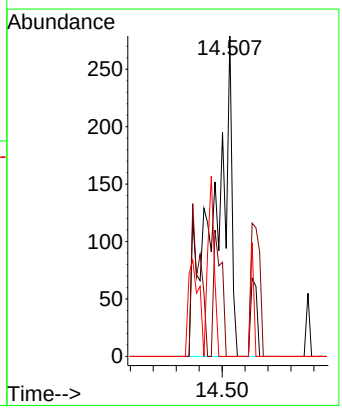


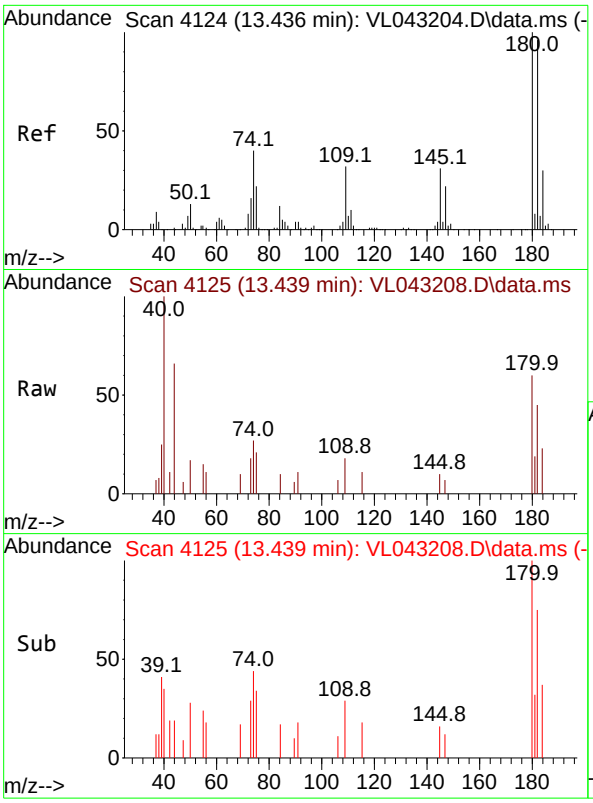


#80
Naphthalene,2-methyl-
Concen: 0.035 ppbv
RT: 14.507 min Scan# 4455
Delta R.T. 0.055 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Tgt Ion:142 Resp: 309

Ion	Ratio	Lower	Upper
142	100		
141	38.8	67.1	100.7#
115	36.9	31.9	47.9



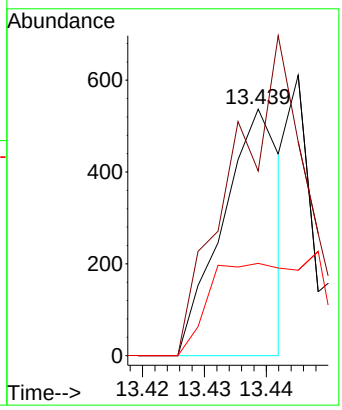


#81
1,2,4-Trichlorobenzene
Concen: 0.023 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043208.D
Acq: 18 Nov 2025 12:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion:180 Resp: 350

Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.4	116.2#
184	0.0	24.2	36.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043209.D
Acq On : 18 Nov 2025 12:49
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Nov 19 00:52:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	98952	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	266012	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	213547	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	152015	9.712	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.554	85	381	0.027	ppbv		100
3) Chlorodifluoromethane	1.638	51	673	0.049	ppbv		95
4) Chloromethane	1.535	50	260	0.050	ppbv	#	71
5) Vinyl Chloride	1.580	62	150	0.026	ppbv	#	86
6) Bromomethane	1.667	94	148	0.054	ppbv	#	23
7) Chloroethane	1.706	64	109	0.049	ppbv	#	76
8) Dichlorotetrafluoroethane	1.554	85	381	0.033	ppbv		99
9) Propene	1.489	41	440	0.069	ppbv	#	1
10) Heptane	4.969	43	193	0.011	ppbv	#	1
11) Trichlorofluoromethane	1.878	101	277	0.020	ppbv		86
12) 1,1,2-Trichlorotrifluo...	2.137	101	368	0.035	ppbv		96
13) Ethanol	1.719	45	229	0.112	ppbv	#	38
14) Bromoethene	1.777	108	102	0.025	ppbv	#	55
15) Acetone	1.839	43	1490	0.108	ppbv	#	86
16) 1,3-Butadiene	1.606	39	392	0.064	ppbv	#	12
17) tert-Butyl alcohol	2.040	59	506	0.028	ppbv	#	71
18) 1,1-Dichloroethene	2.033	96	130	0.026	ppbv	#	90
19) Isopropyl Alcohol	1.887	45	746	0.096	ppbv	#	49
20) Methylene Chloride	2.059	84	3122	Below Cal		#	93
21) Allyl Chloride	2.095	41	774	0.084	ppbv	#	23
22) trans-1,2-Dichloroethene	2.337	96	240	0.043	ppbv	#	56
23) Vinyl Acetate	2.457	43	627	0.038	ppbv	#	78
24) 1,1-Dichloroethane	2.402	63	453	0.042	ppbv	#	86
25) Ethyl Acetate	2.836	43	455	0.015	ppbv	#	82
26) Hexane	2.820	57	499	0.038	ppbv	#	1
27) Carbon Disulfide	2.153	76	477	0.036	ppbv	#	1
28) Methyl tert-Butyl Ether	2.438	73	181	0.028	ppbv	#	50
29) Chloroform	2.399	83	140	0.008	ppbv		95
30) Cyclohexane	3.846	84	179	0.016	ppbv	#	1
31) cis-1,2-Dichloroethene	2.719	61	369	0.029	ppbv	#	90
32) 1,1,1-Trichloroethane	3.363	97	153	0.008	ppbv	#	1
34) 2-Butanone	2.545	43	88	0.005	ppbv	#	53
35) Carbon Tetrachloride	3.758	117	558	0.028	ppbv	#	61
36) Benzene	3.651	78	323	0.013	ppbv	#	11
37) 1,2-Dichloroethane	3.211	62	298	0.020	ppbv	#	80
38) Trichloroethene	4.542	130	123	0.012	ppbv	#	49
39) 1,2-Dichloropropane	3.949	63	68235	7.318	ppbv	#	24
40) 1,4-Dioxane	4.606	88	75	0.018	ppbv	#	1
41) Tetrahydrofuran	3.053	42	118	0.011	ppbv	#	37
42) Bromodichloromethane	4.483	83	268	0.013	ppbv	#	24
43) Methyl Methacrylate	4.868	69	145	0.011	ppbv	#	1
44) 2,2,4-Trimethylpentane	4.629	57	595	0.014	ppbv	#	41
45) t-1,3-Dichloropropene	6.403	75	232	0.018	ppbv	#	44

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043209.D
Acq On : 18 Nov 2025 12:49
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Nov 19 00:52:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

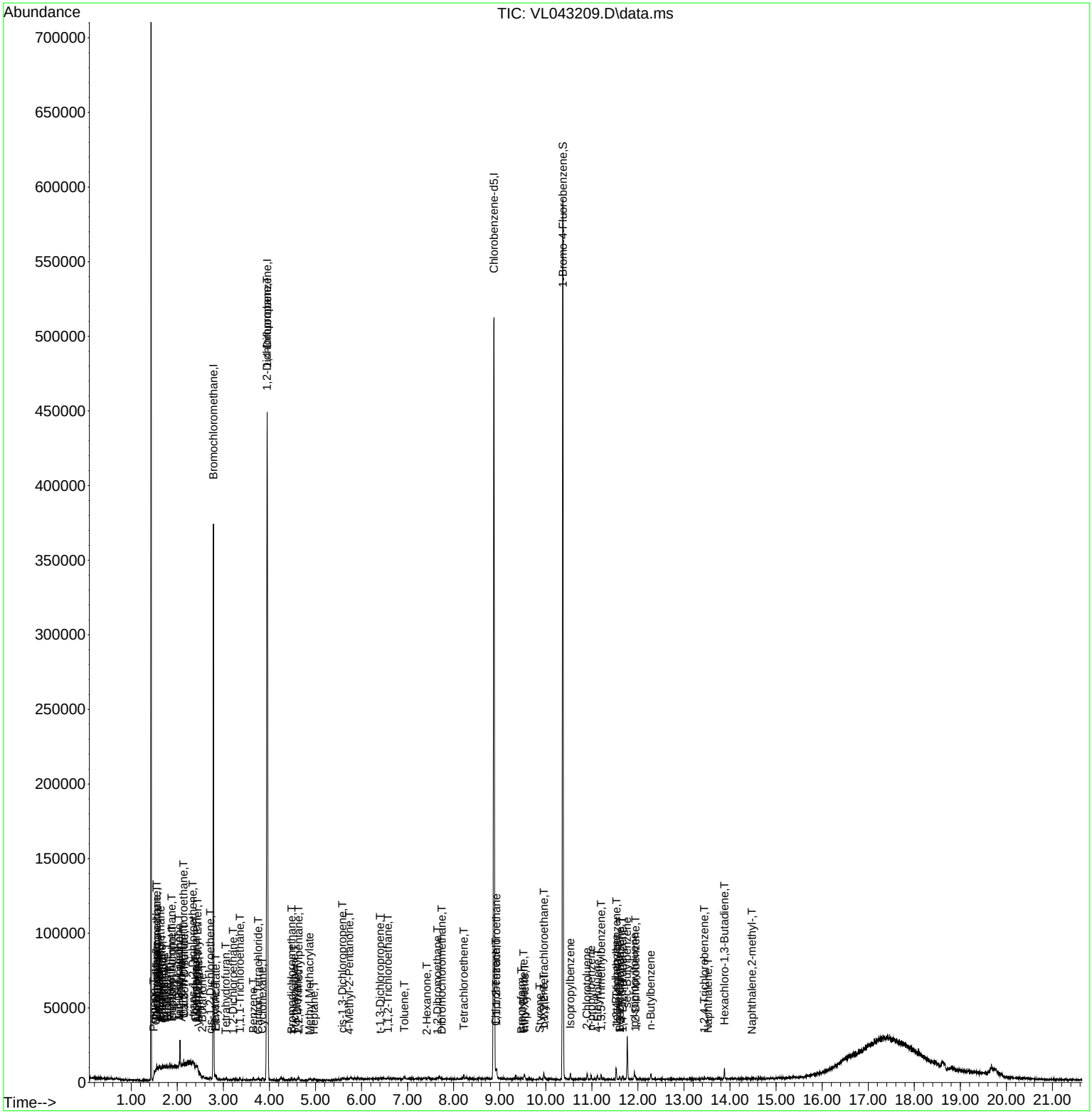
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	123	0.008	ppbv	#	37
47) 1,1,2-Trichloroethane	6.574	97	122	0.012	ppbv	#	51
48) Dibromochloromethane	7.743	129	34	0.002	ppbv		62
49) Bromoform	9.471	173	102	0.007	ppbv	#	1
50) 4-Methyl-2-Pentanone	5.736	43	140	0.005	ppbv	#	39
51) 2-Hexanone	7.419	43	61	0.003	ppbv	#	29
52) Tetrachloroethene	8.222	164	158	0.017	ppbv	#	48
53) Toluene	6.930	91	323	0.011	ppbv	#	21
54) 1,2-Dibromoethane	7.645	107	102	0.007	ppbv		87
56) 1,1,1,2-Tetrachloroethane	8.927	131	114	0.007	ppbv	#	1
57) Chlorobenzene	8.914	112	429	0.020	ppbv	#	55
58) Ethyl Benzene	9.519	91	613	0.015	ppbv		91
59) m/p-Xylene	9.545	91	299	0.009	ppbv	#	1
60) o-Xylene	9.956	91	1078	0.033	ppbv		99
61) Styrene	9.869	104	300	0.021	ppbv	#	54
62) Isopropylbenzene	10.533	105	1990	0.034	ppbv		90
63) 1,1,2,2-Tetrachloroethane	9.963	83	306	0.015	ppbv	#	47
64) n-propylbenzene	10.982	120	316	0.021	ppbv		82
65) tert-Butylbenzene	11.526	119	1740	0.033	ppbv		98
66) Benzyl Chloride	11.607	91	62	0.012	ppbv	#	65
67) sec-Butylbenzene	11.762	105	2398	0.033	ppbv	#	70
69) p-Isopropyltoluene	11.924	119	1875	0.030	ppbv	#	91
70) n-Butylbenzene	12.277	91	1502	0.025	ppbv		94
71) 2-Chlorotoluene	10.895	91	1463	0.032	ppbv		98
72) 4-Ethyltoluene	11.125	105	408	0.010	ppbv	#	61
73) 1,3,5-Trimethylbenzene	11.203	105	1041	0.031	ppbv	#	68
74) 1,2,4-Trimethylbenzene	11.536	105	789	0.021	ppbv	#	49
75) 1,3-Dichlorobenzene	11.610	146	214	0.010	ppbv	#	1
76) 1,4-Dichlorobenzene	11.669	146	292	0.014	ppbv	#	1
77) 1,2-Dichlorobenzene	11.947	146	561	0.027	ppbv		81
78) Hexachloro-1,3-Butadiene	13.876	225	622	0.036	ppbv	#	83
79) Naphthalene	13.520	128	504	0.015	ppbv	#	13
80) Naphthalene,2-methyl-	14.475	142	58	0.007	ppbv	#	36
81) 1,2,4-Trichlorobenzene	13.442	180	150	0.010	ppbv	#	46

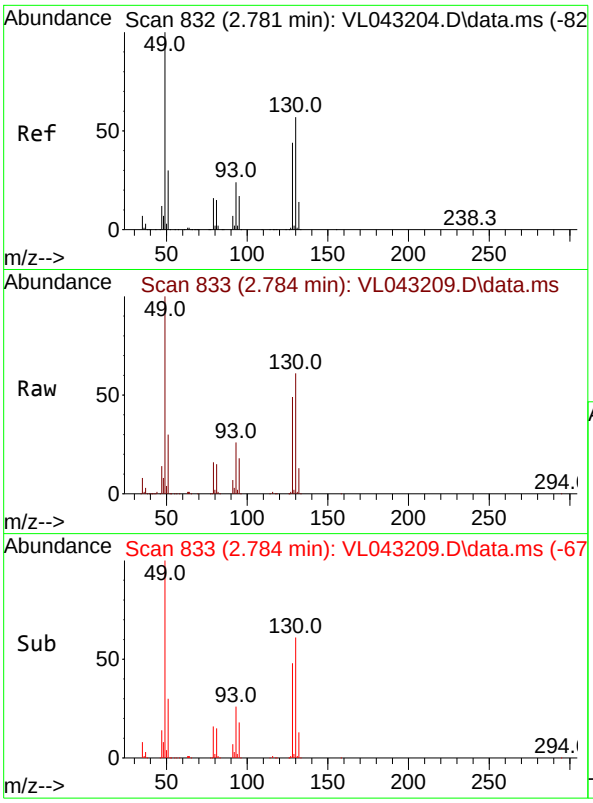
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043209.D
Acq On : 18 Nov 2025 12:49
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Nov 19 00:52:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration



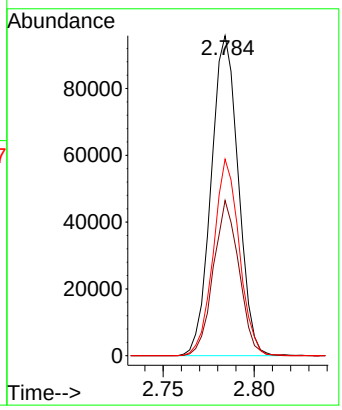


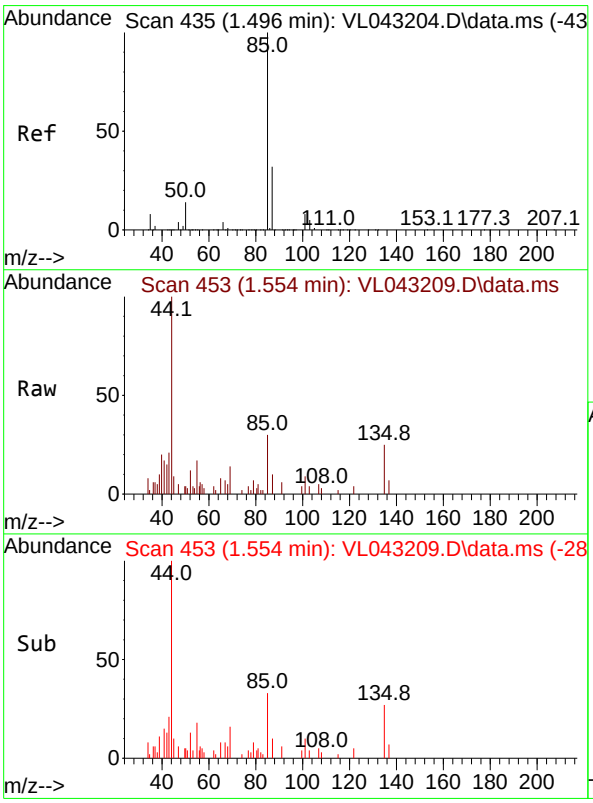
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 98952

Ion	Ratio	Lower	Upper
49	100		
128	45.9	23.0	69.0
130	58.8	29.9	89.7

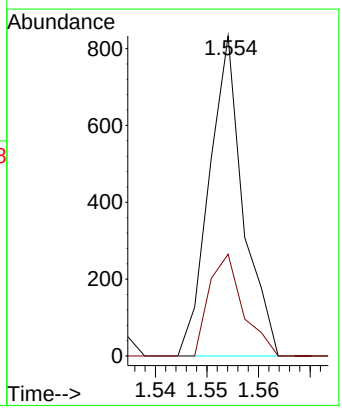


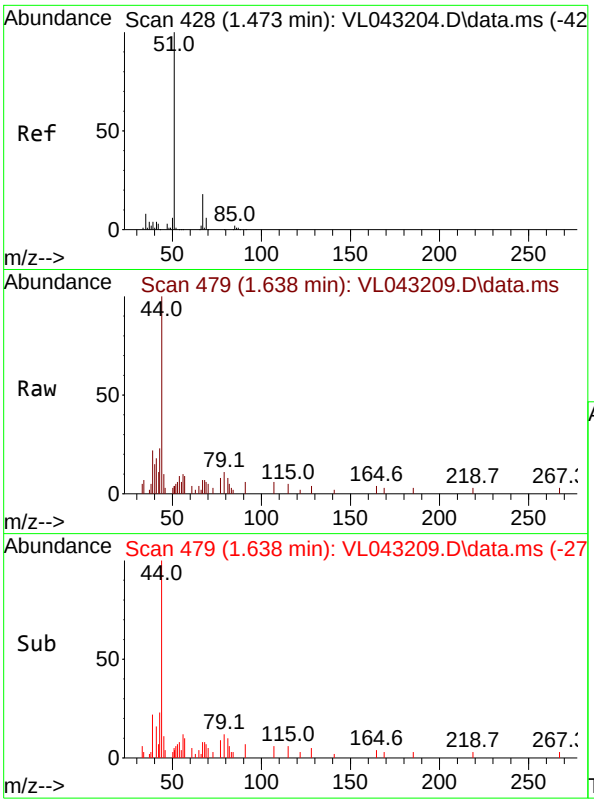


#2
Dichlorodifluoromethane
Concen: 0.027 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.058 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 85 Resp: 381

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.4	38.2



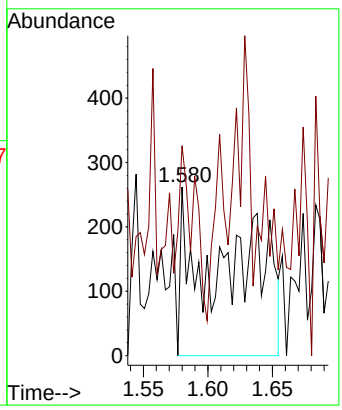


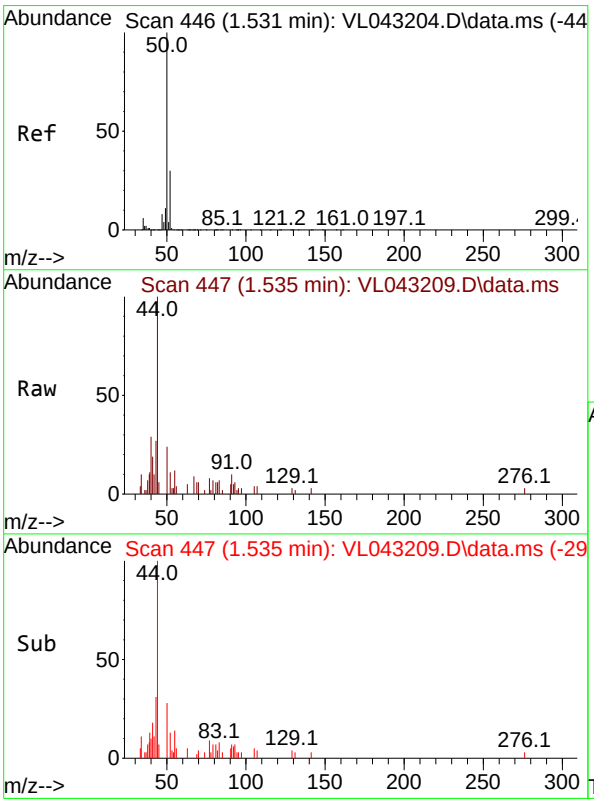
#3
Chlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.638 min Scan# 4
Delta R.T. 0.165 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 51 Resp: 673

Ion	Ratio	Lower	Upper
51	100		
67	20.8	14.9	22.3

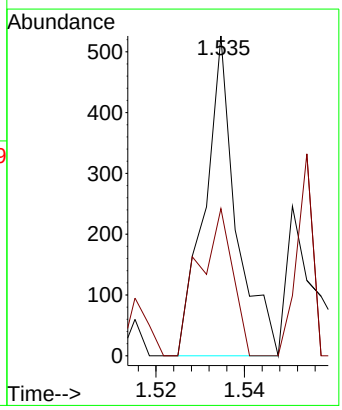


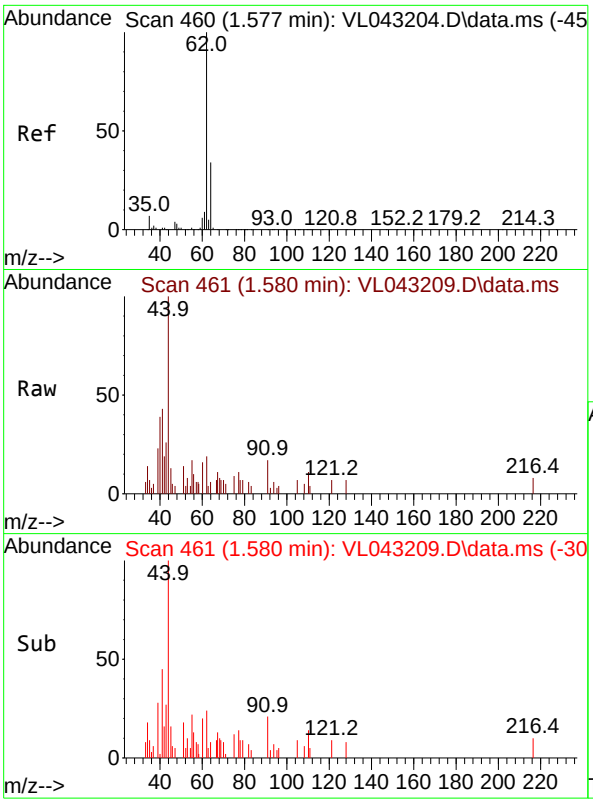


#4
Chloromethane
Concen: 0.050 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 50 Resp: 260

Ion	Ratio	Lower	Upper
50	100		
52	46.0	24.1	36.1#



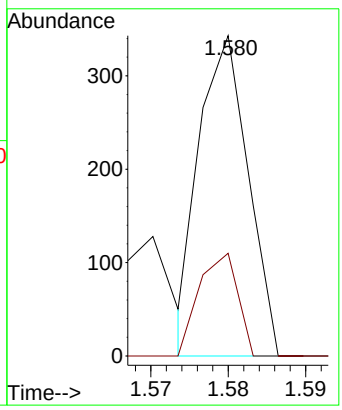


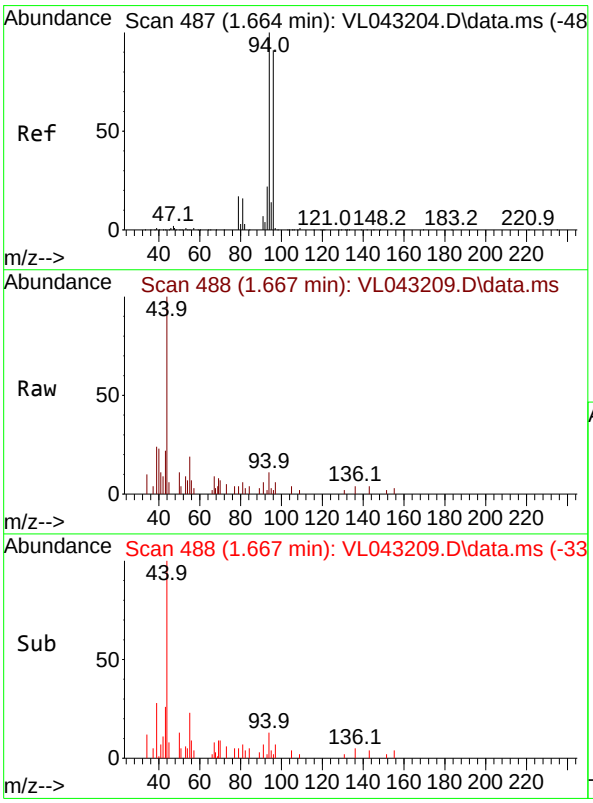
#5
Vinyl Chloride
Concen: 0.026 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 150

Ion	Ratio	Lower	Upper
62	100		
64	26.3	27.3	40.9#

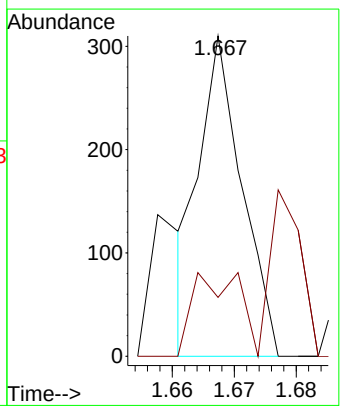


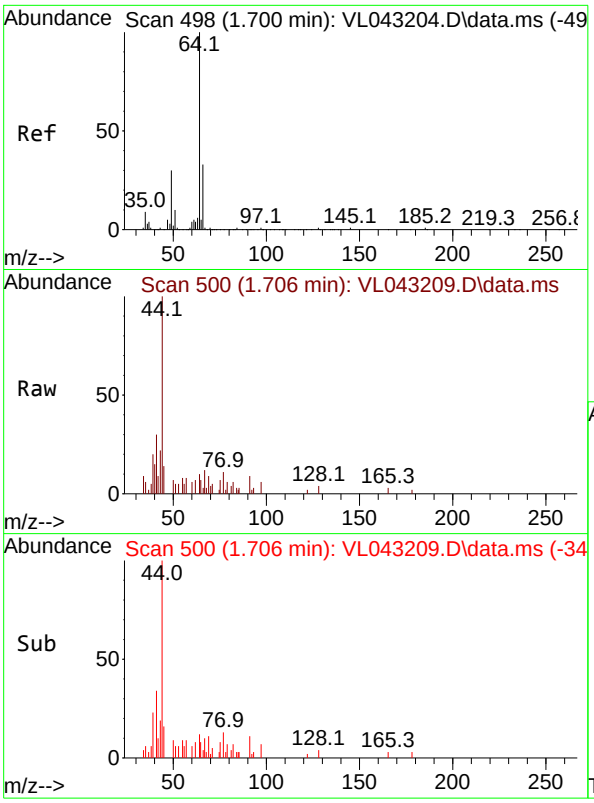


#6
Bromomethane
Concen: 0.054 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 94 Resp: 148

Ion	Ratio	Lower	Upper
94	100		
96	18.4	72.9	109.3#



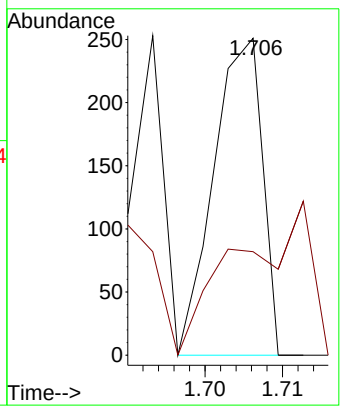


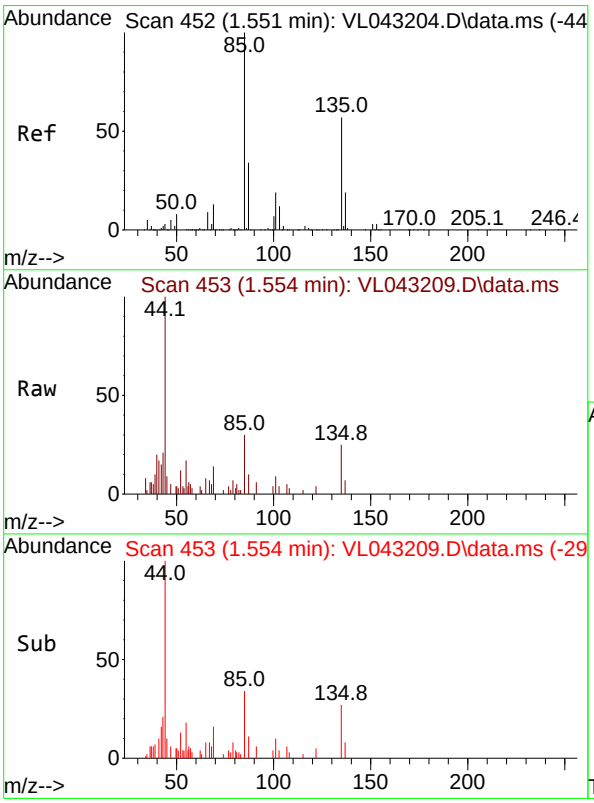
#7
Chloroethane
Concen: 0.049 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 64 Resp: 109

Ion	Ratio	Lower	Upper
64	100		
66	19.6	26.8	40.2#

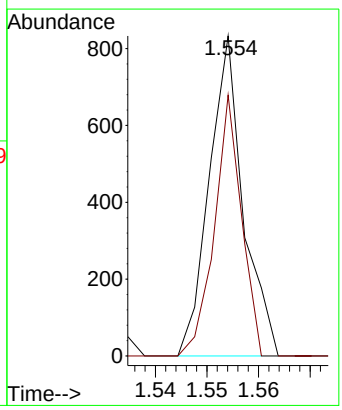


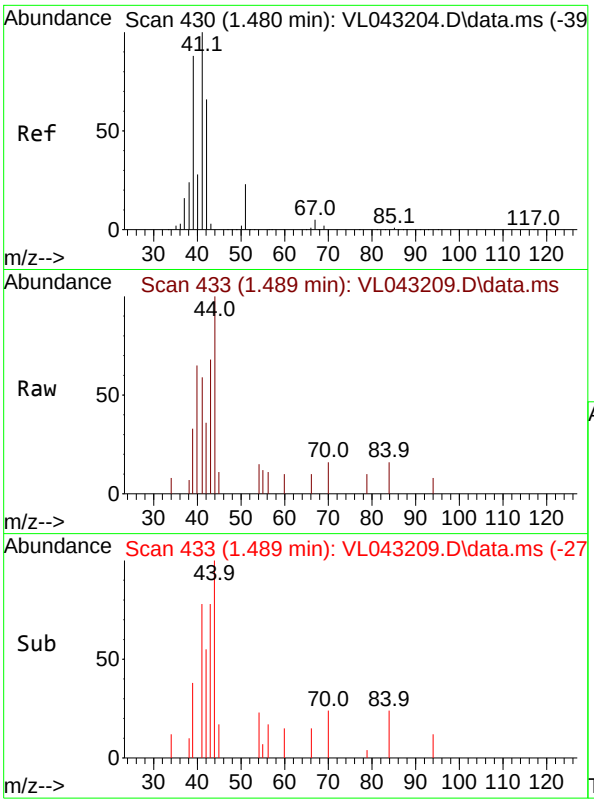


#8
Dichlorotetrafluoroethane
Concen: 0.033 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 85 Resp: 381

Ion	Ratio	Lower	Upper
85	100		
135	64.8	52.6	79.0



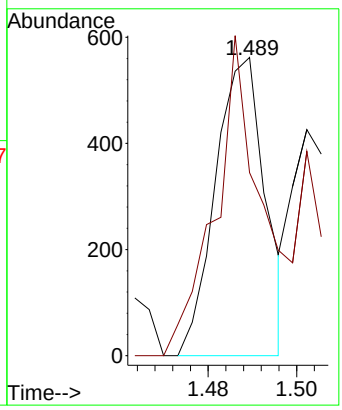


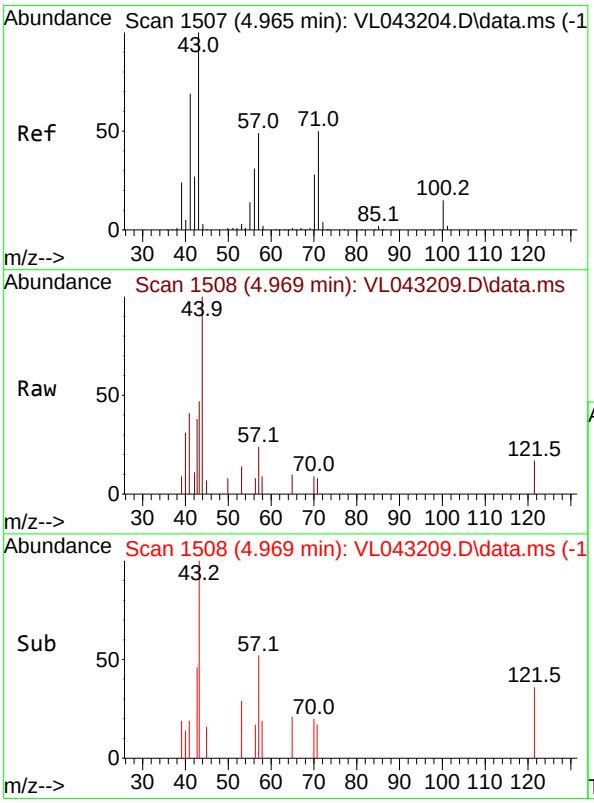
#9
Propene
Concen: 0.069 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 41 Resp: 440

Ion	Ratio	Lower	Upper
41	100		
42	147.5	3.7	5.5#

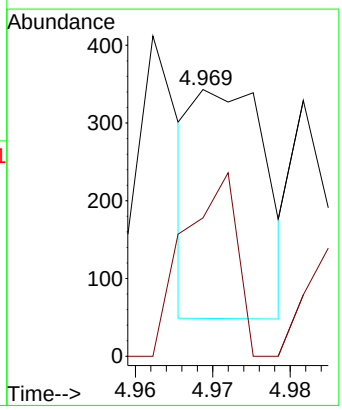


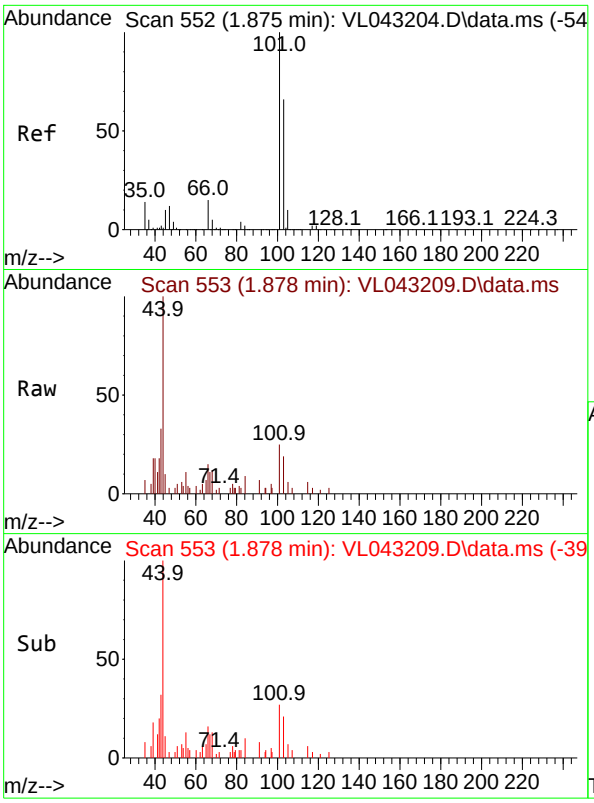


#10
Heptane
Concen: 0.011 ppbv
RT: 4.969 min Scan# 1508
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 43 Resp: 193

Ion	Ratio	Lower	Upper
43	100		
57	146.1	39.7	59.5#



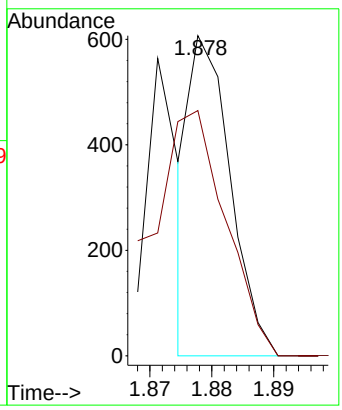


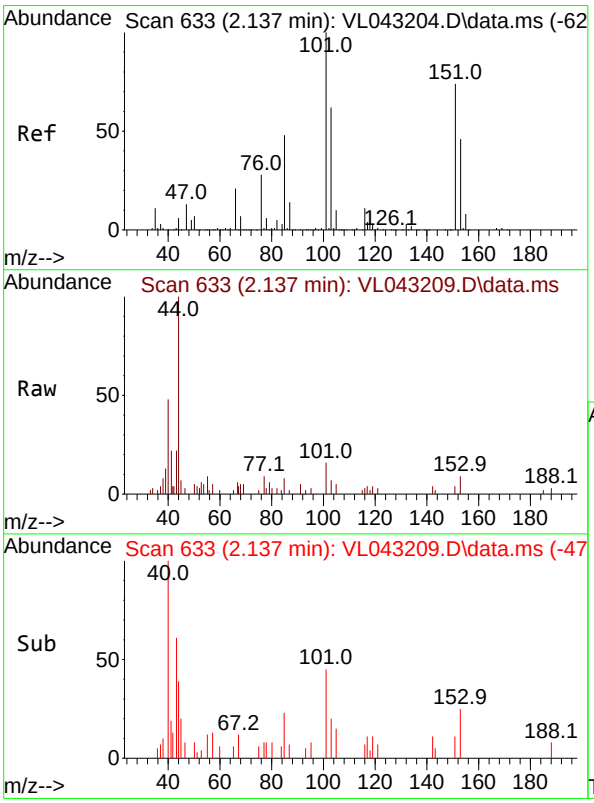
#11
Trichlorofluoromethane
Concen: 0.020 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:101 Resp: 277

Ion	Ratio	Lower	Upper
101	100		
103	76.6	52.6	79.0

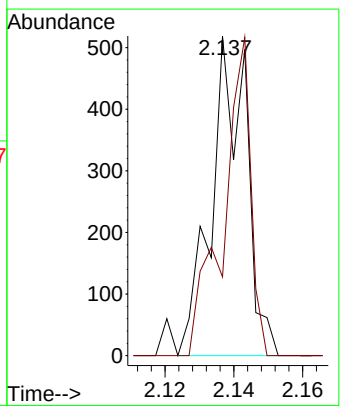


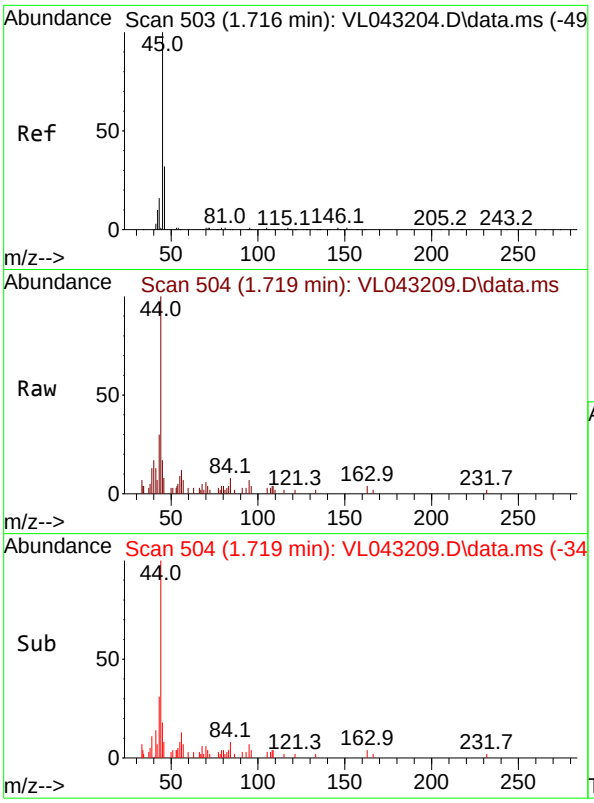


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.035 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:101 Resp: 368

Ion	Ratio	Lower	Upper
101	100		
151	77.4	59.2	88.8



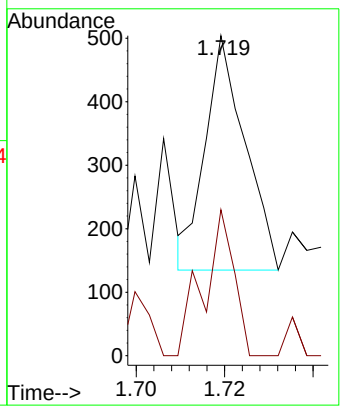


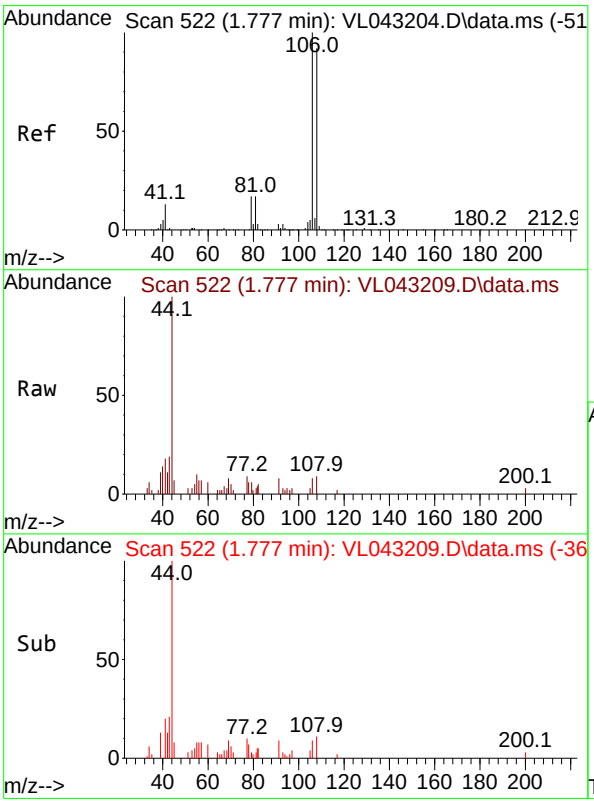
#13
Ethanol
Concen: 0.112 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 229

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.0	59.8#

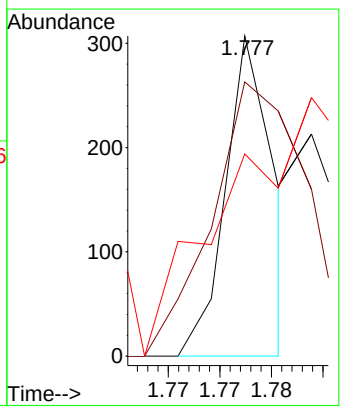


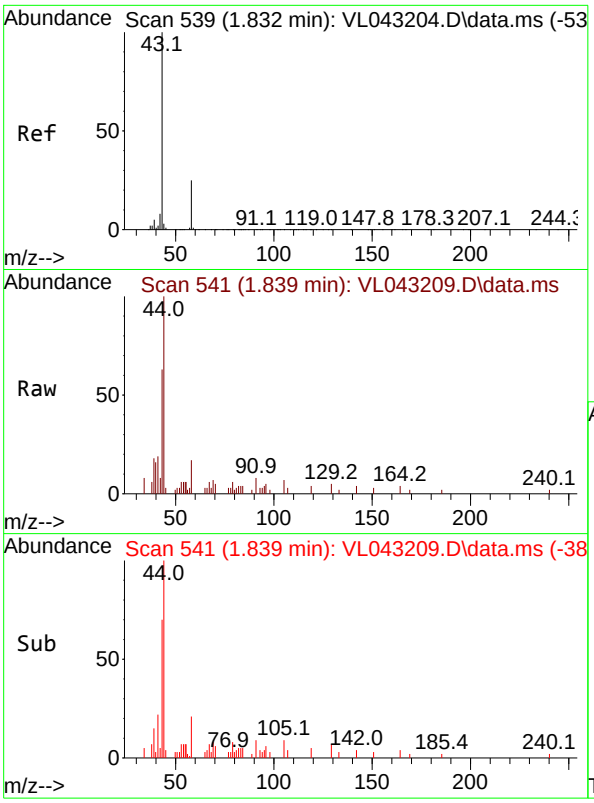


#14
Bromoethene
Concen: 0.025 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:108 Resp: 102

Ion	Ratio	Lower	Upper
108	100		
106	158.8	88.9	133.3#
79	0.0	16.5	24.7#



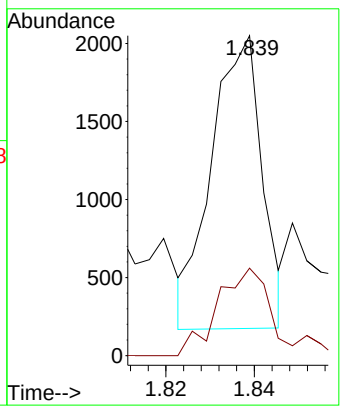


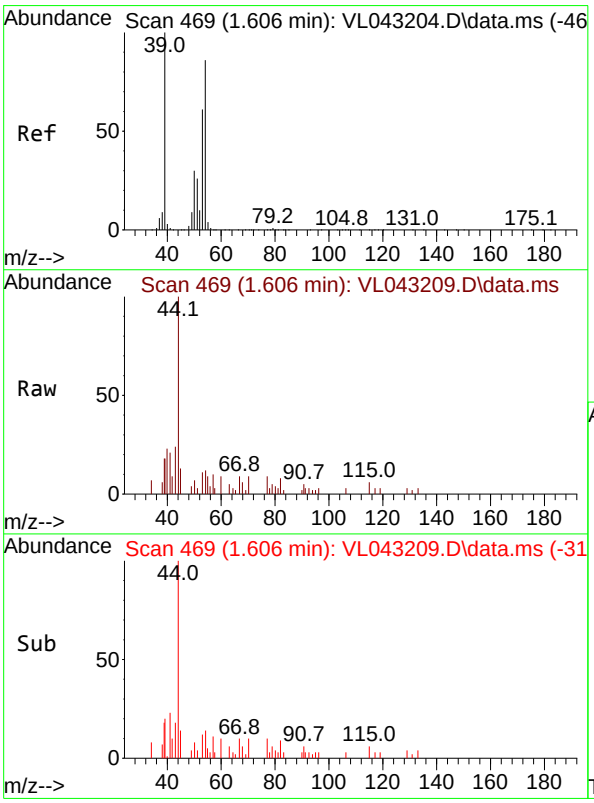
#15
Acetone
Concen: 0.108 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 1490

Ion	Ratio	Lower	Upper
43	100		
58	32.8	20.7	31.1#

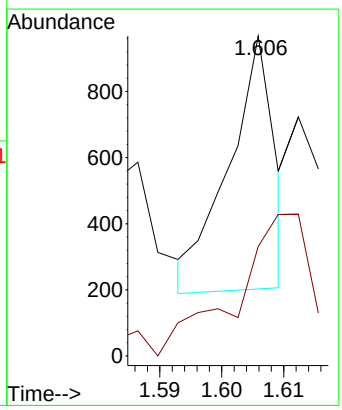


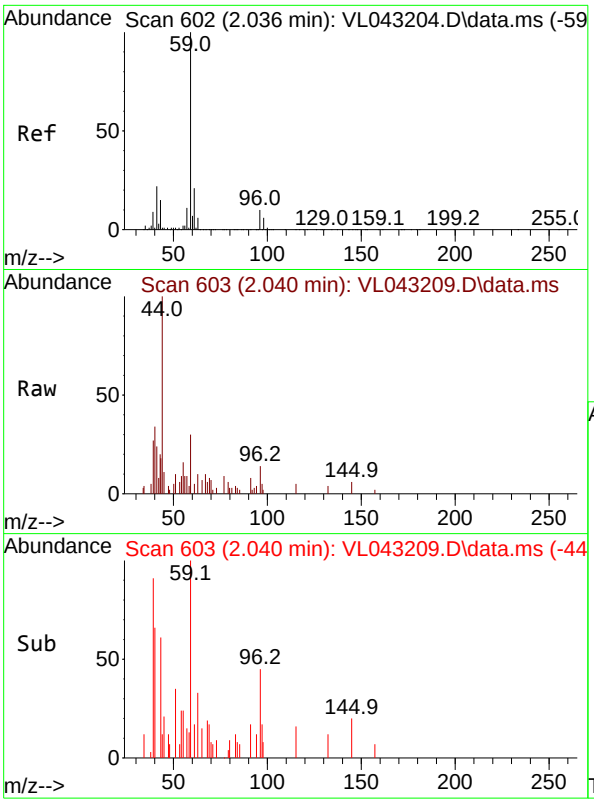


#16
1,3-Butadiene
Concen: 0.064 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 39 Resp: 392

Ion	Ratio	Lower	Upper
39	100		
54	0.0	59.4	89.2#



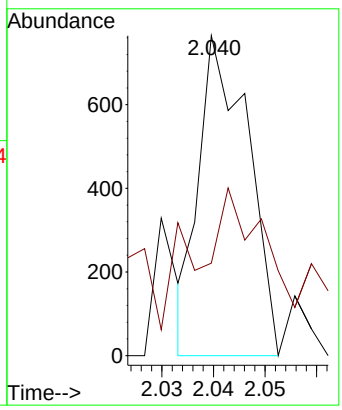


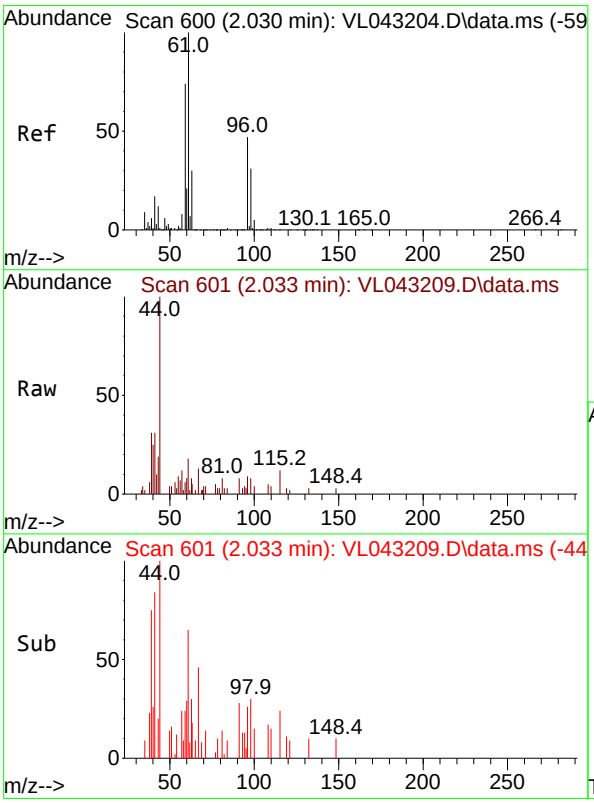
#17
tert-Butyl alcohol
Concen: 0.028 ppbv
RT: 2.040 min Scan# 6(
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 59 Resp: 506

Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.0	13.4#

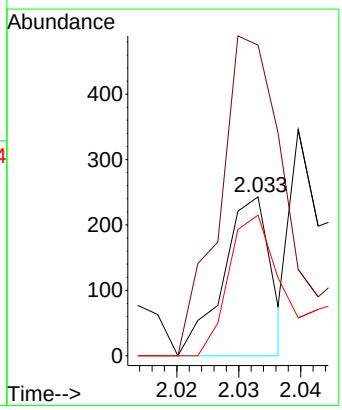


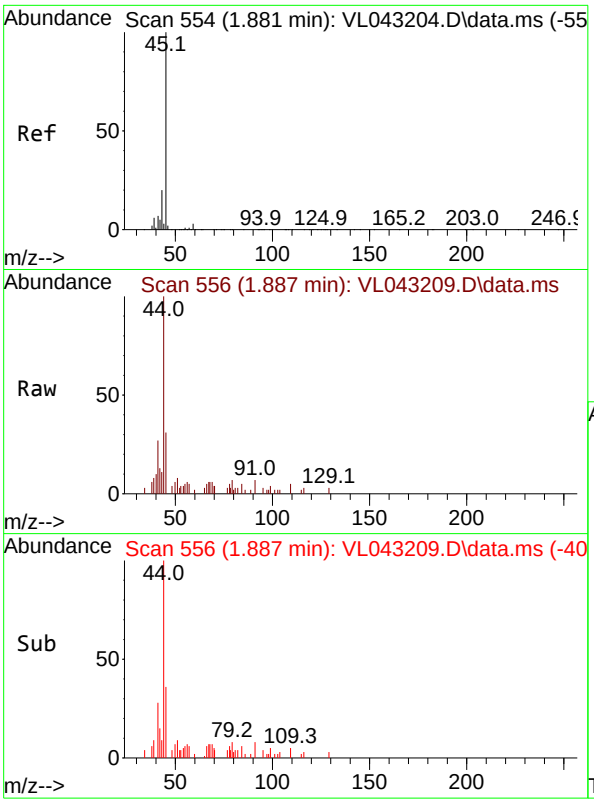


#18
1,1-Dichloroethene
Concen: 0.026 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 96 Resp: 130

Ion	Ratio	Lower	Upper
96	100		
61	219.8	170.6	255.8
98	88.5	52.2	78.4#



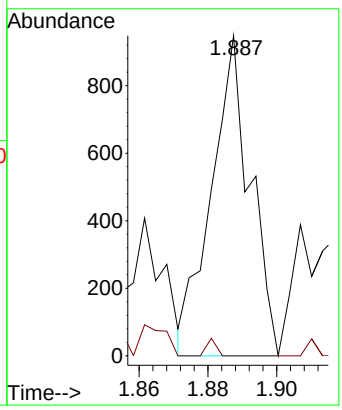


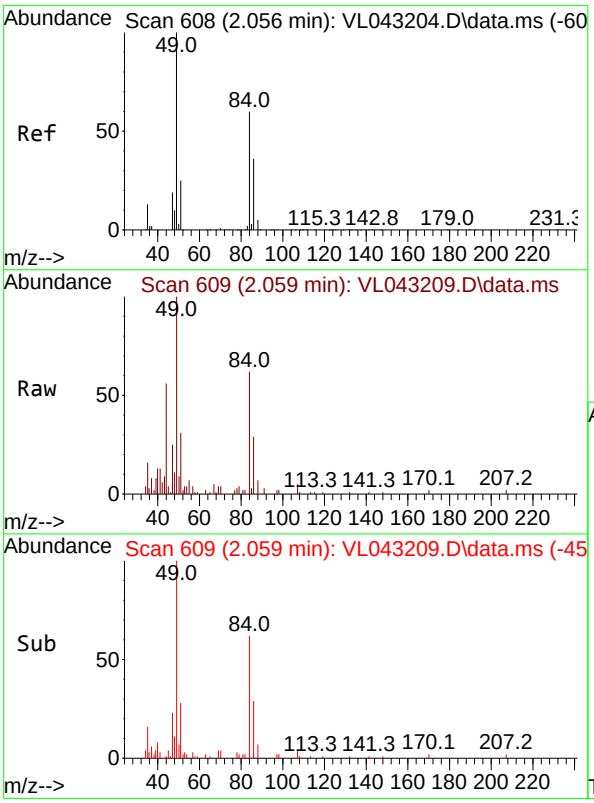
#19
Isopropyl Alcohol
Concen: 0.096 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 45 Resp: 746

Ion	Ratio	Lower	Upper
45	100		
58	7.6	31.3	46.9#

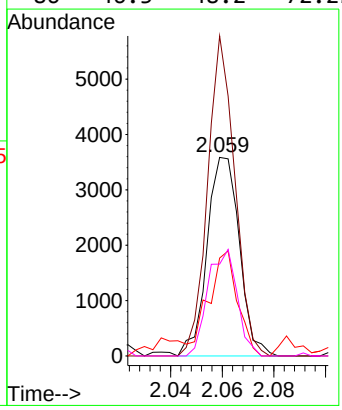


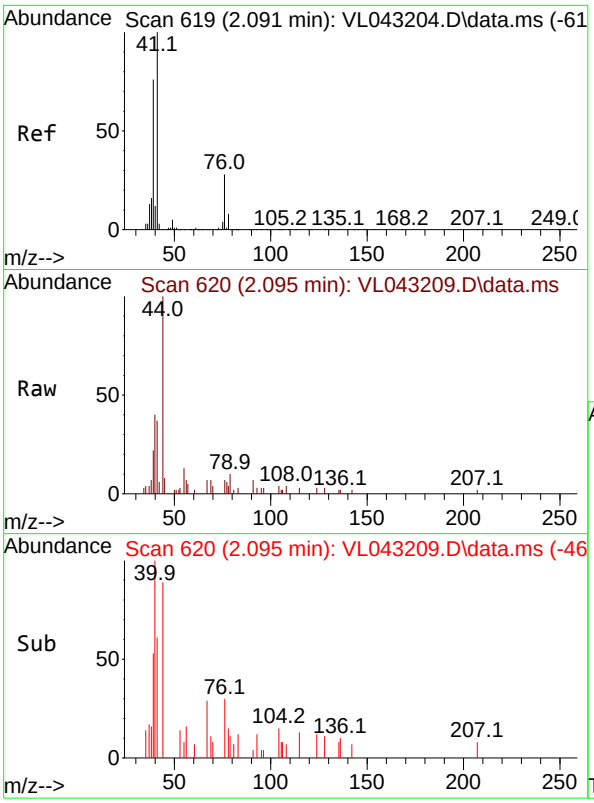


#20
Methylene Chloride
Concen: Below Cal
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 84 Resp: 3122

Ion	Ratio	Lower	Upper
84	100		
49	161.1	132.9	199.3
51	44.7	34.8	52.2
86	46.3	48.2	72.2#



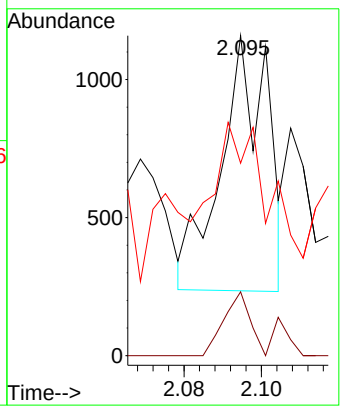


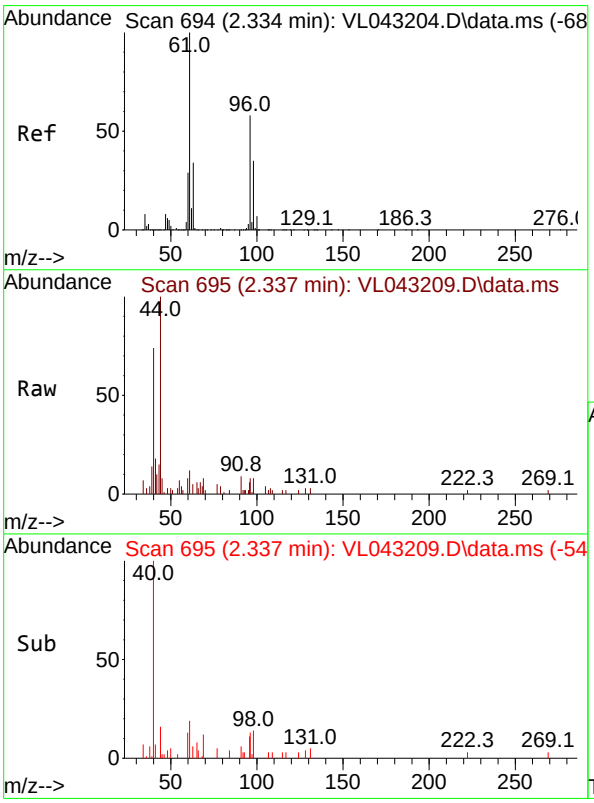
#21
Allyl Chloride
Concen: 0.084 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 41 Resp: 774

Ion	Ratio	Lower	Upper
41	100		
76	19.1	22.1	33.1#
39	161.5	61.0	91.4#

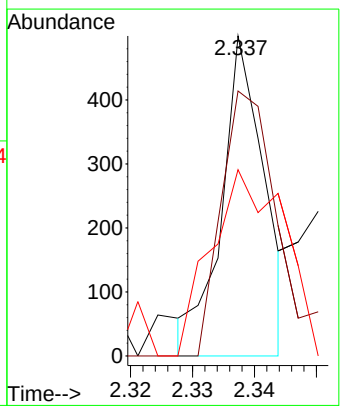


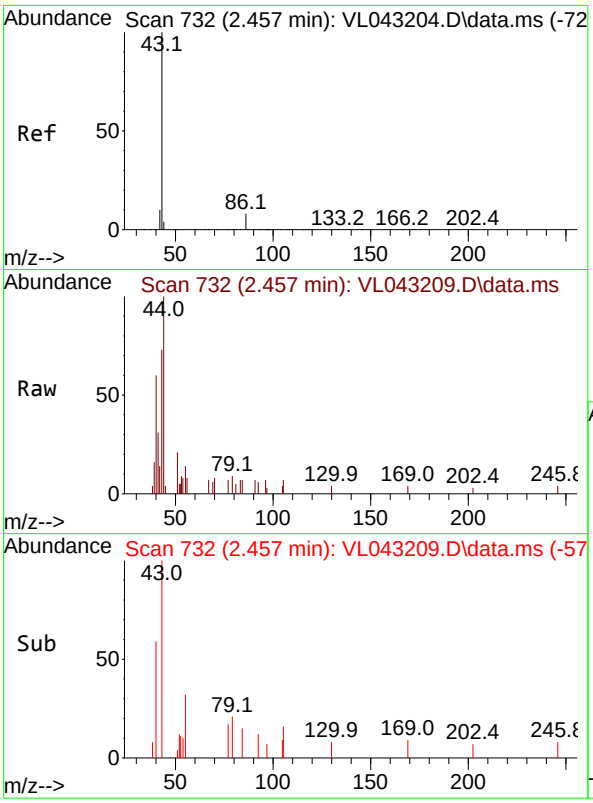


#22
trans-1,2-Dichloroethene
Concen: 0.043 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 96 Resp: 240

Ion	Ratio	Lower	Upper
96	100		
61	93.9	139.0	208.6#
98	66.0	49.4	74.2



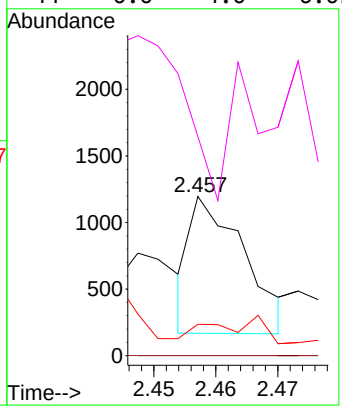


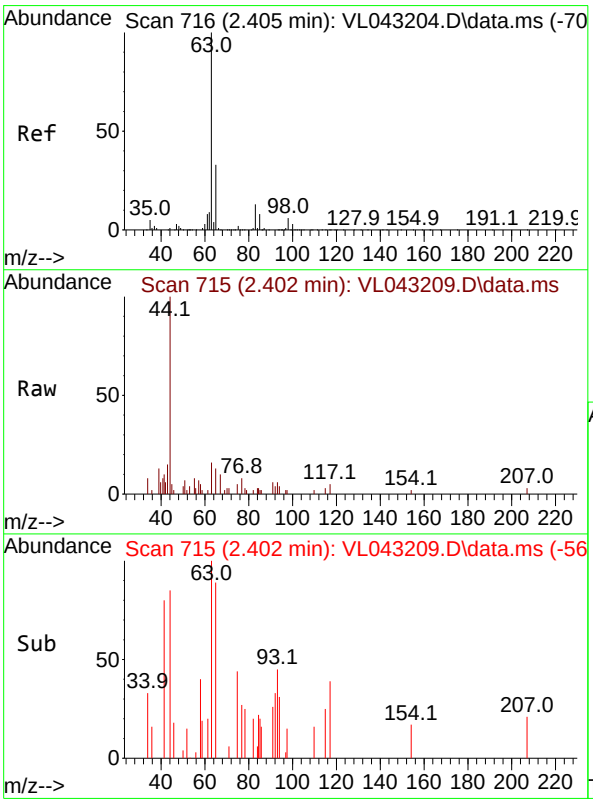
#23
Vinyl Acetate
Concen: 0.038 ppbv
RT: 2.457 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 627

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	19.3	8.0	12.0#
44	0.0	4.0	6.0#

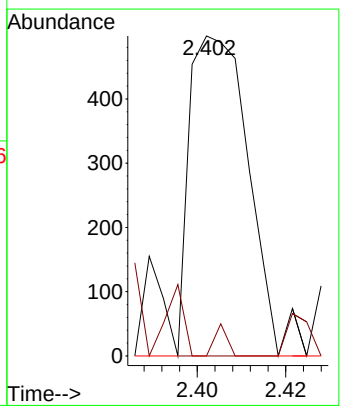


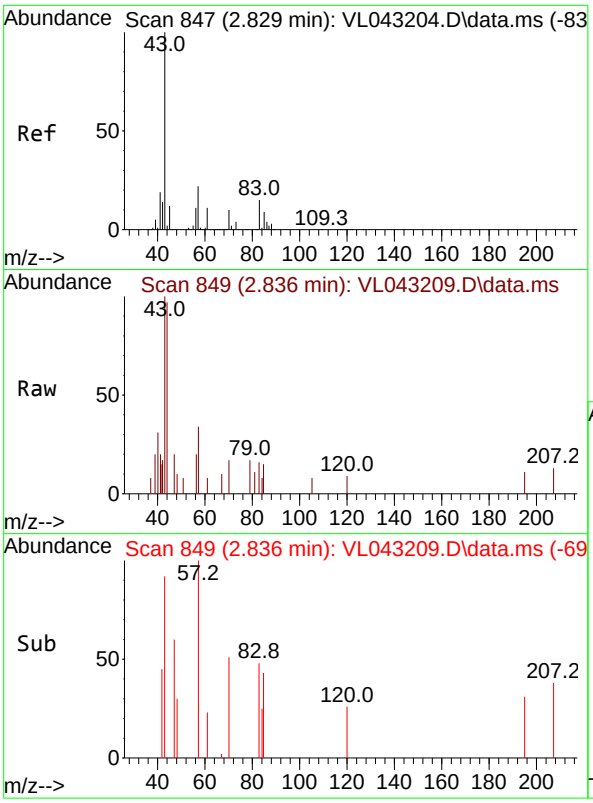


#24
1,1-Dichloroethane
Concen: 0.042 ppbv
RT: 2.402 min Scan# 715
Delta R.T. -0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 63 Resp: 453

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.8	8.4#
100	0.0	1.3	3.9#



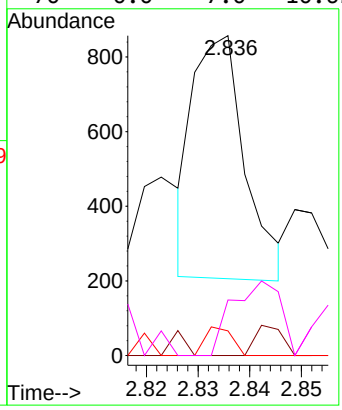


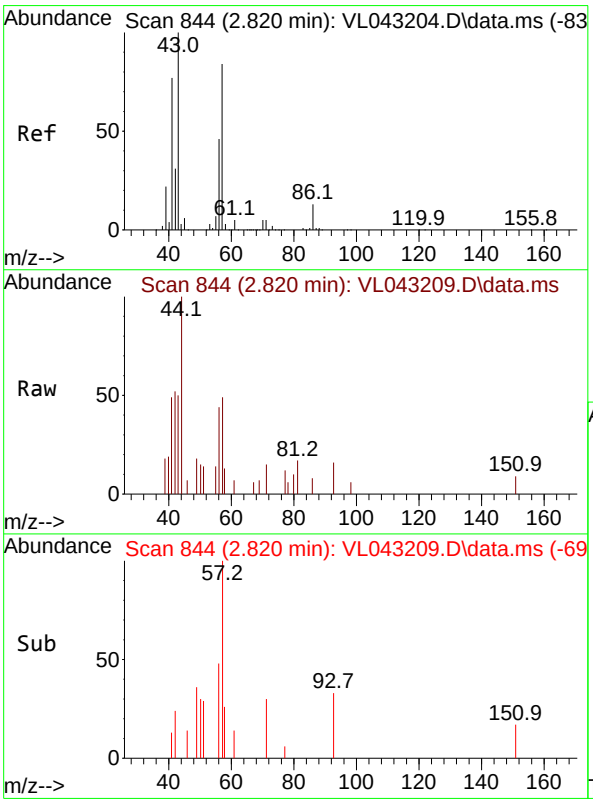
#25
Ethyl Acetate
Concen: 0.015 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 455

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	8.6	7.0	10.4
70	0.0	7.0	10.6#

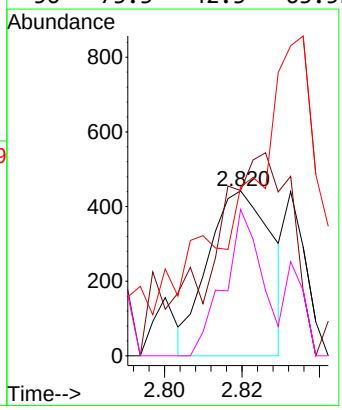


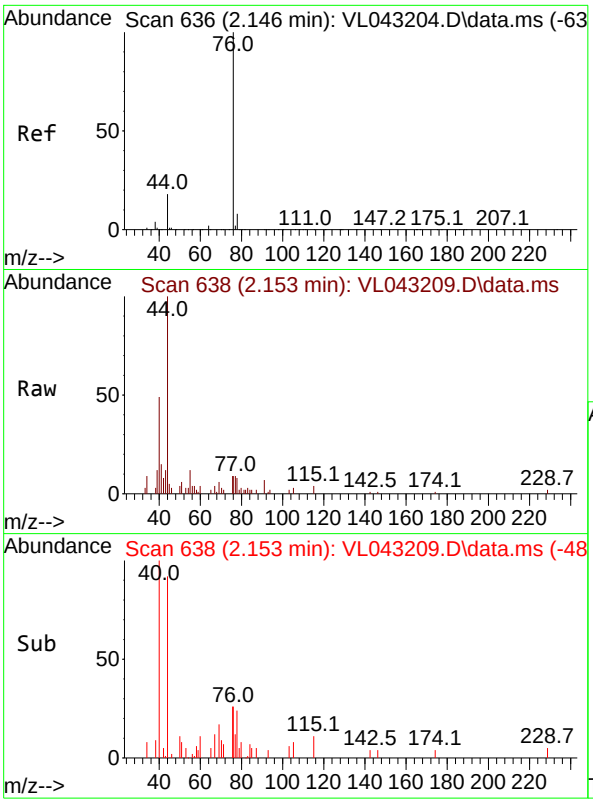


#26
Hexane
Concen: 0.038 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 57 Resp: 499

Ion	Ratio	Lower	Upper
57	100		
41	0.0	74.6	111.8#
43	0.0	179.0	268.4#
56	73.3	42.3	63.5#



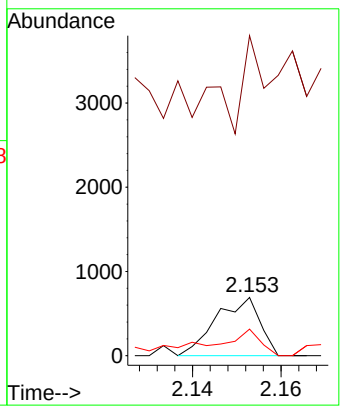


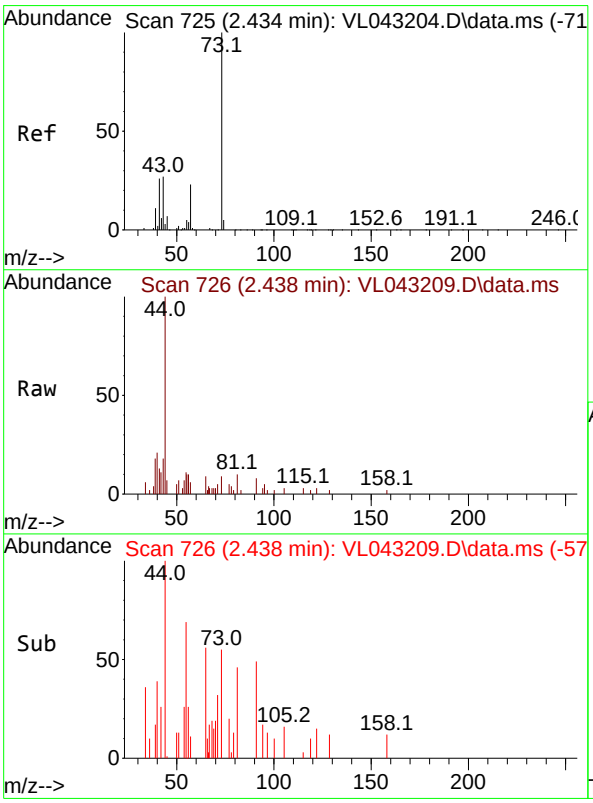
#27
Carbon Disulfide
Concen: 0.036 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 76 Resp: 477

Ion	Ratio	Lower	Upper
76	100		
44	1027.0	16.1	24.1#
78	43.6	9.6	14.4#

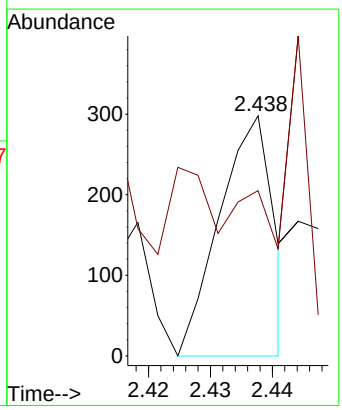


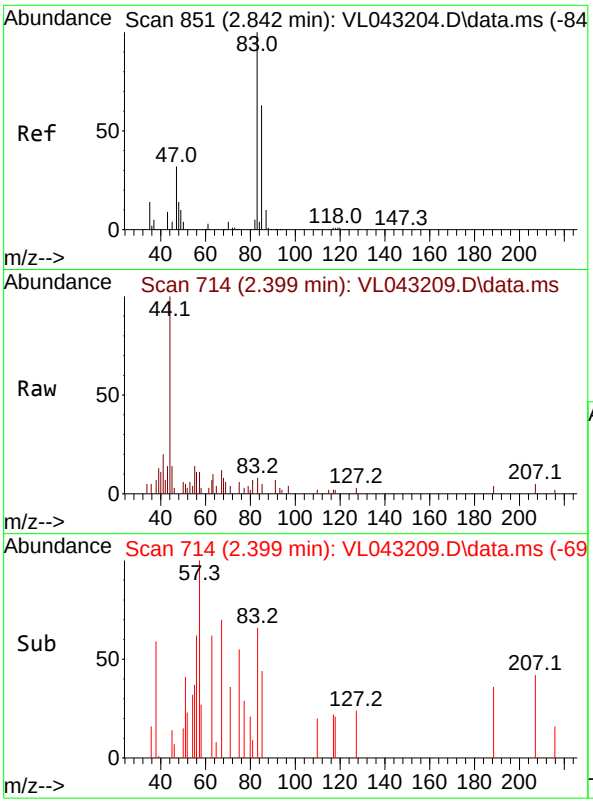


#28
Methyl tert-Butyl Ether
Concen: 0.028 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 73 Resp: 181

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.8	29.8#



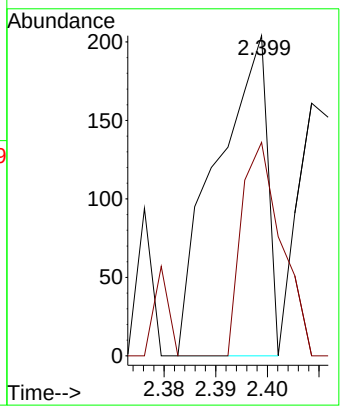


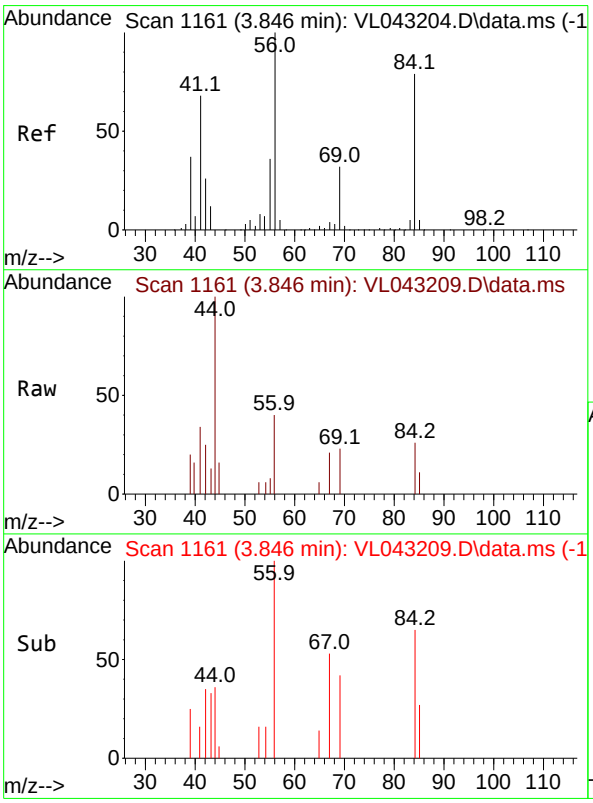
#29
Chloroform
Concen: 0.008 ppbv
RT: 2.399 min Scan# 7
Delta R.T. -0.443 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 140

Ion	Ratio	Lower	Upper
83	100		
85	66.7	50.5	75.7

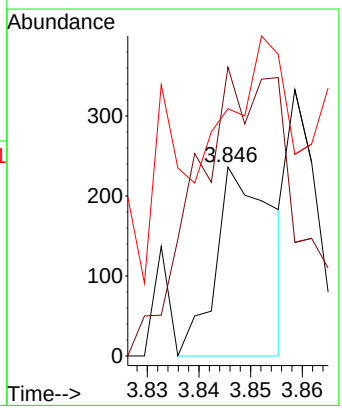


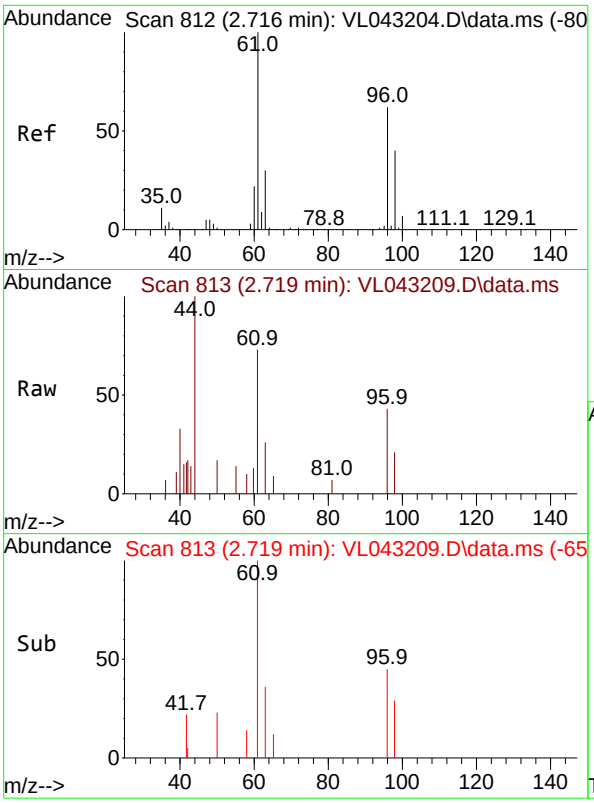


#30
Cyclohexane
Concen: 0.016 ppbv
RT: 3.846 min Scan# 1161
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 84 Resp: 179

Ion	Ratio	Lower	Upper
84	100		
56	369.8	104.7	157.1#
41	0.0	69.0	103.6#



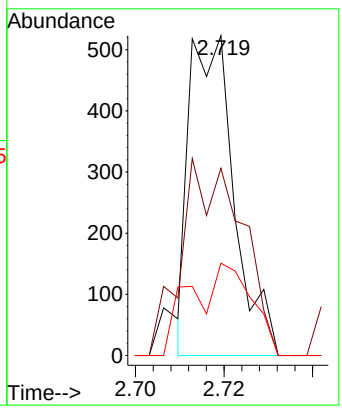


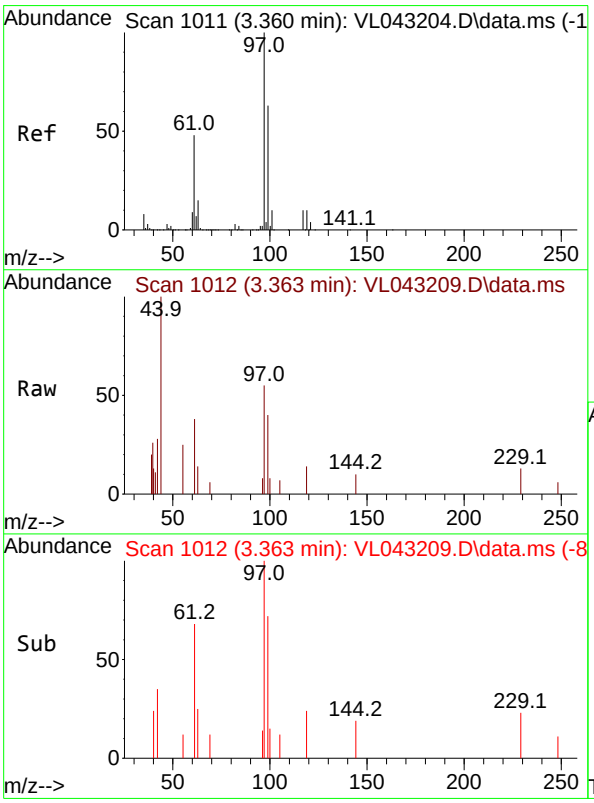
#31
cis-1,2-Dichloroethene
Concen: 0.029 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 61 Resp: 369

Ion	Ratio	Lower	Upper
61	100		
96	58.5	49.3	73.9
98	28.9	32.1	48.1#

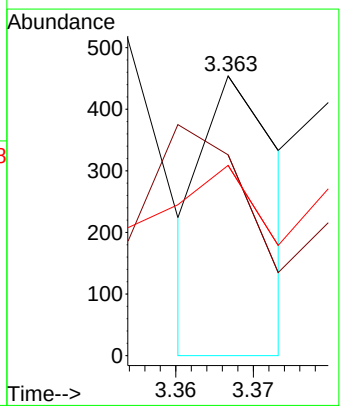


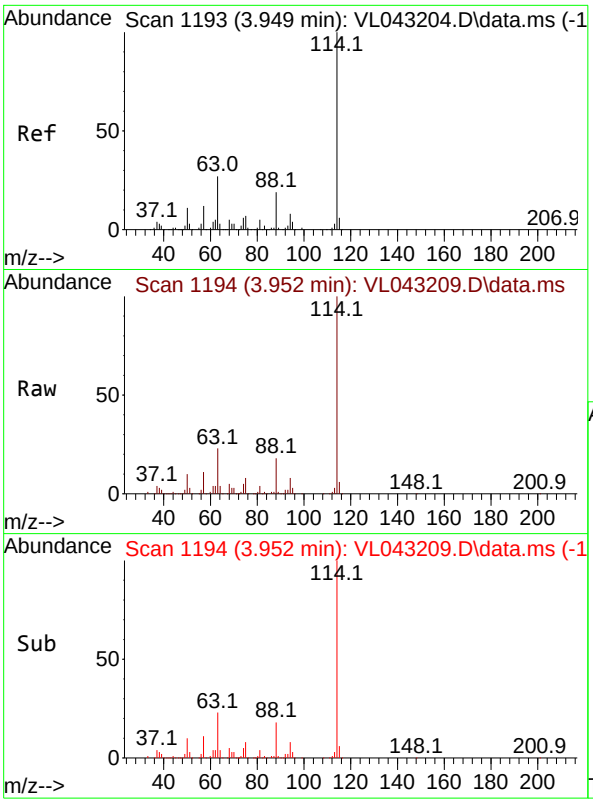


#32
1,1,1-Trichloroethane
Concen: 0.008 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 97 Resp: 153

Ion	Ratio	Lower	Upper
97	100		
99	233.3	50.3	75.5#
61	0.0	38.9	58.3#



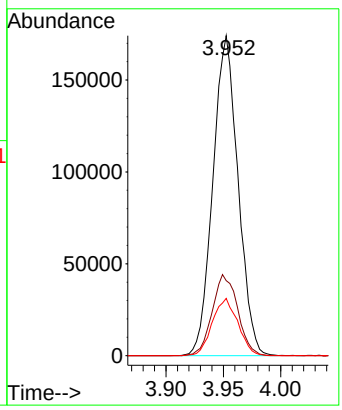


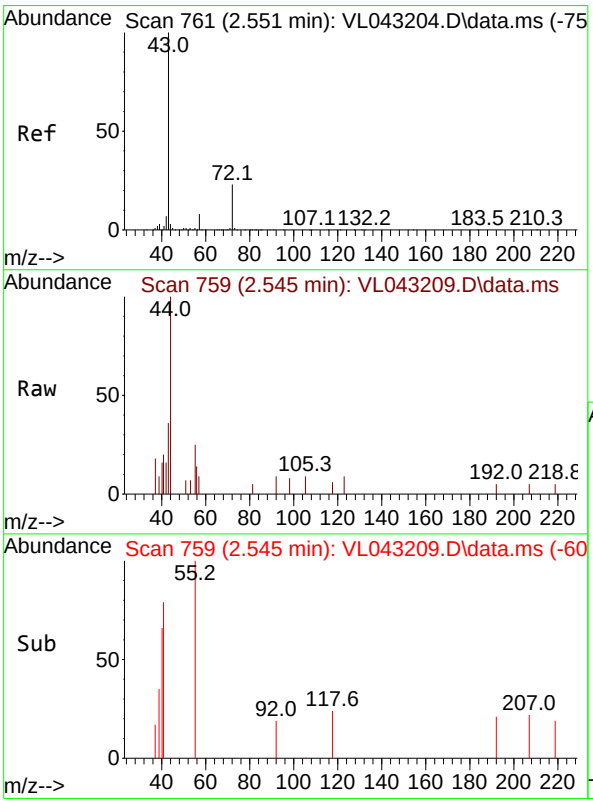
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:114 Resp: 266012

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.2	14.9	22.3

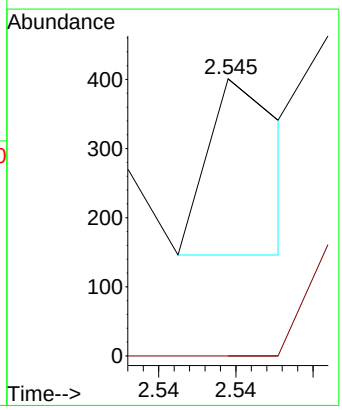


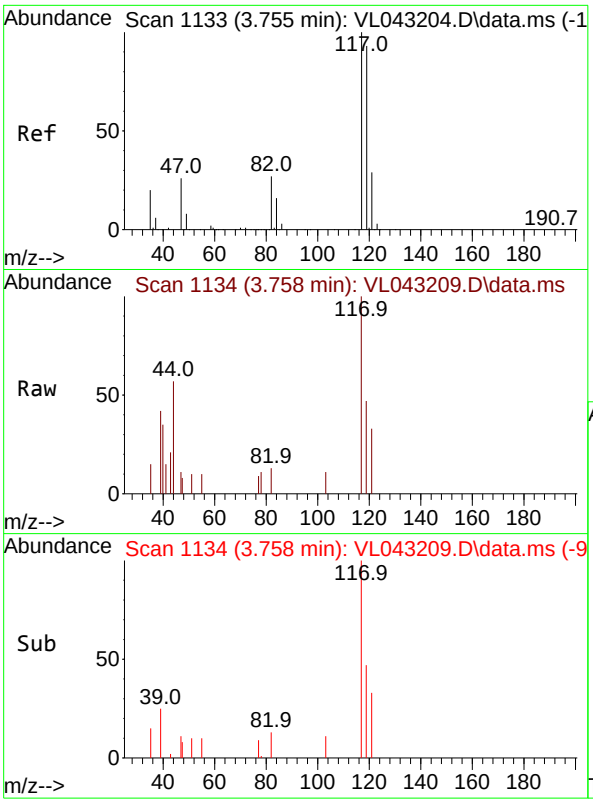


#34
2-Butanone
Concen: 0.005 ppbv
RT: 2.545 min Scan# 759
Delta R.T. -0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 43 Resp: 88

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.1	27.1#



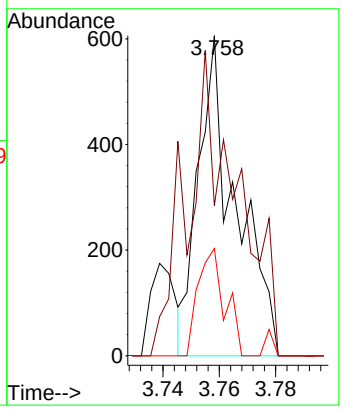


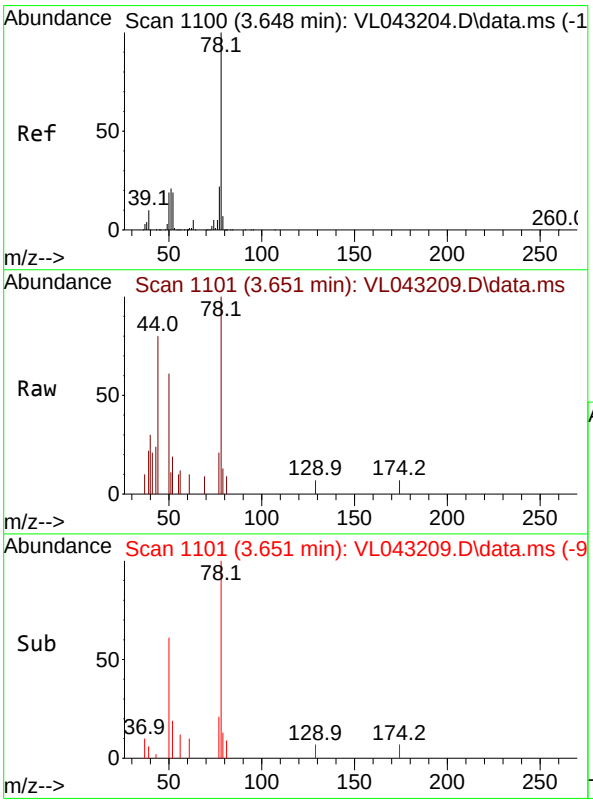
#35
Carbon Tetrachloride
Concen: 0.028 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:117 Resp: 558

Ion	Ratio	Lower	Upper
117	100		
119	46.9	74.6	112.0#
121	33.5	23.2	34.8

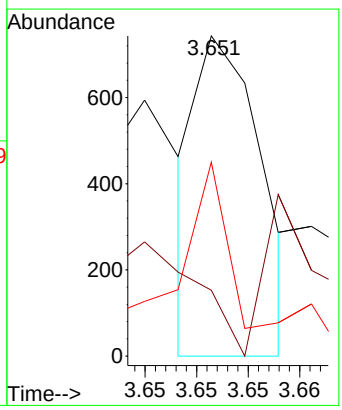


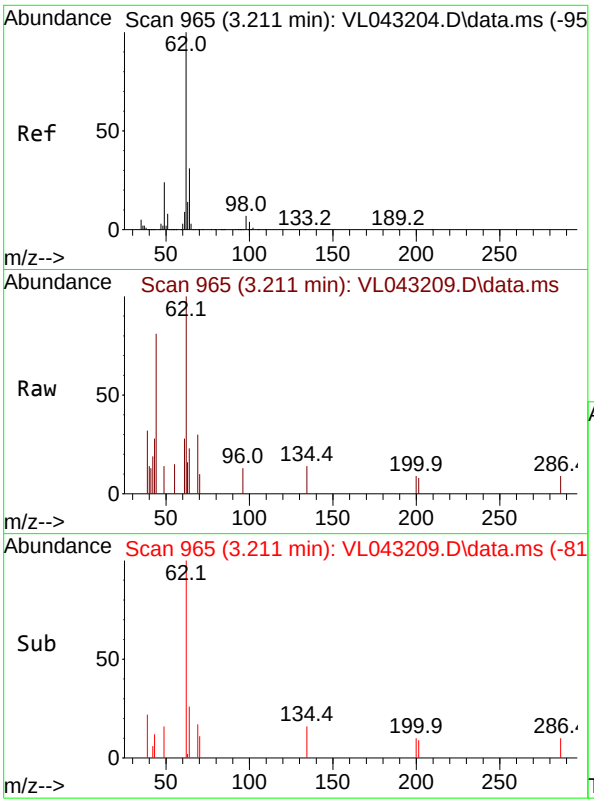


#36
Benzene
Concen: 0.013 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 78 Resp: 323

Ion	Ratio	Lower	Upper
78	100		
77	0.0	17.5	26.3#
50	81.8	15.5	23.3#



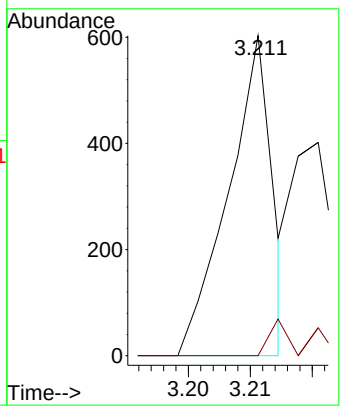


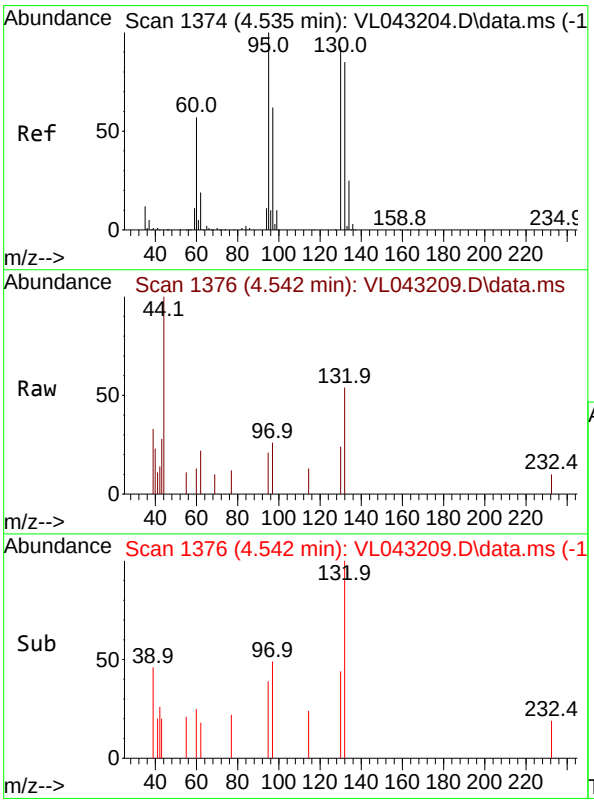
#37
1,2-Dichloroethane
Concen: 0.020 ppbv
RT: 3.211 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 62 Resp: 298

Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.5	8.3#

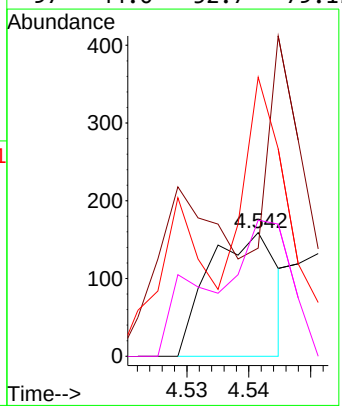


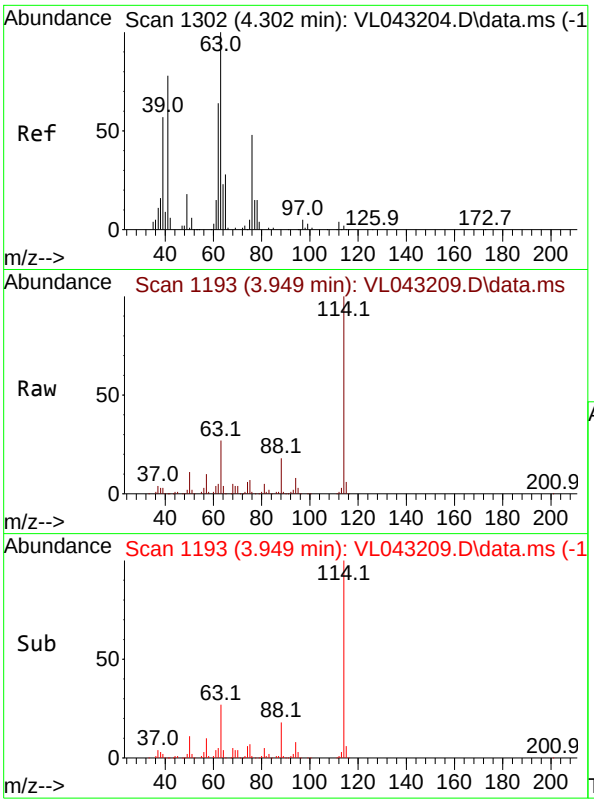


#38
Trichloroethene
Concen: 0.012 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:130 Resp: 123

Ion	Ratio	Lower	Upper
130	100		
95	0.0	85.7	128.5#
132	97.5	73.4	110.0
97	44.0	52.7	79.1#



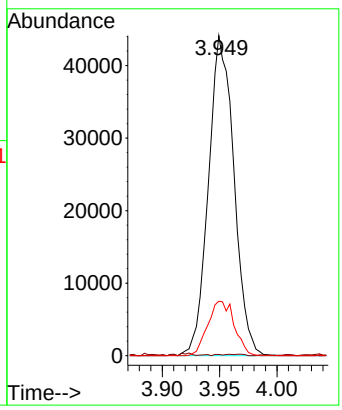


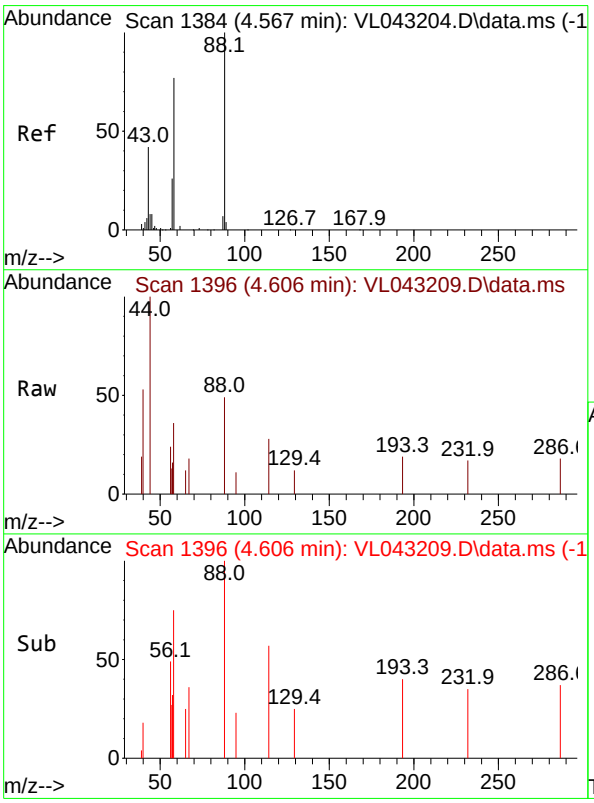
#39
1,2-Dichloropropane
Concen: 7.318 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.353 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 63 Resp: 68235

Ion	Ratio	Lower	Upper
63	100		
41	0.4	62.6	93.8#
62	17.0	51.0	76.6#

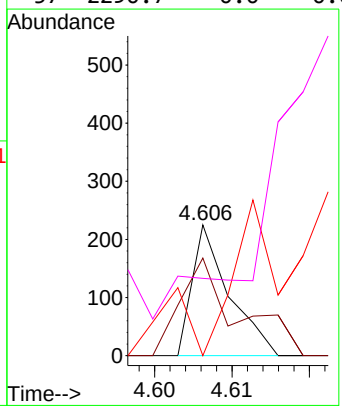


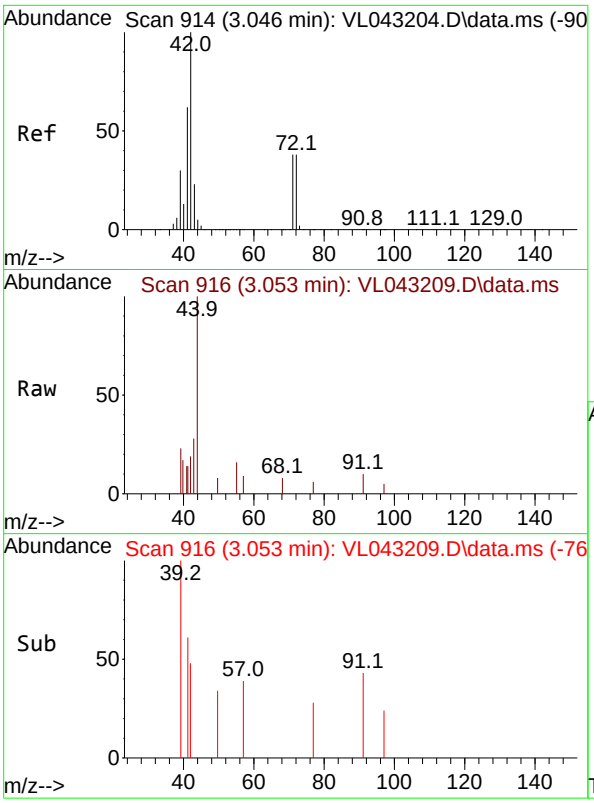


#40
1,4-Dioxane
Concen: 0.018 ppbv
RT: 4.606 min Scan# 1396
Delta R.T. 0.039 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 88 Resp: 75

Ion	Ratio	Lower	Upper
88	100		
58	142.7	63.0	94.6#
43	806.7	32.5	48.7#
57	2290.7	0.0	0.0#



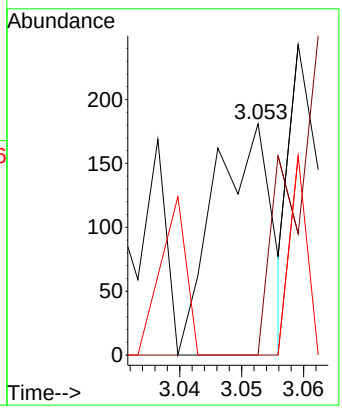


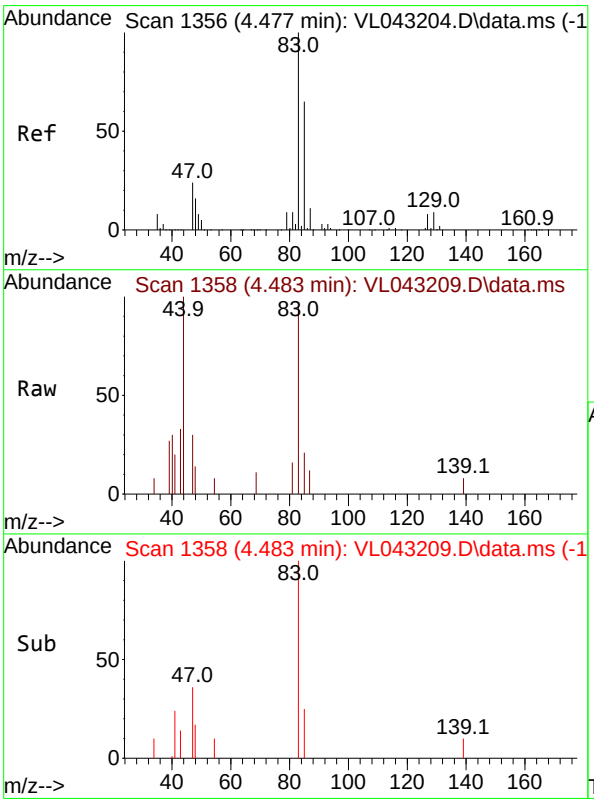
#41
Tetrahydrofuran
Concen: 0.011 ppbv
RT: 3.053 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 42 Resp: 118

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.6	46.0#
71	0.0	30.5	45.7#

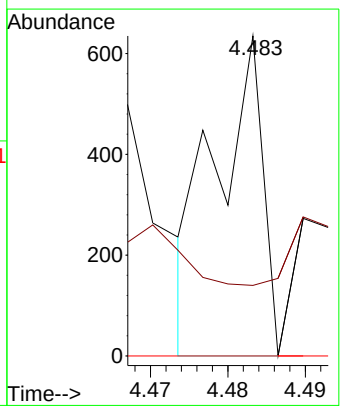


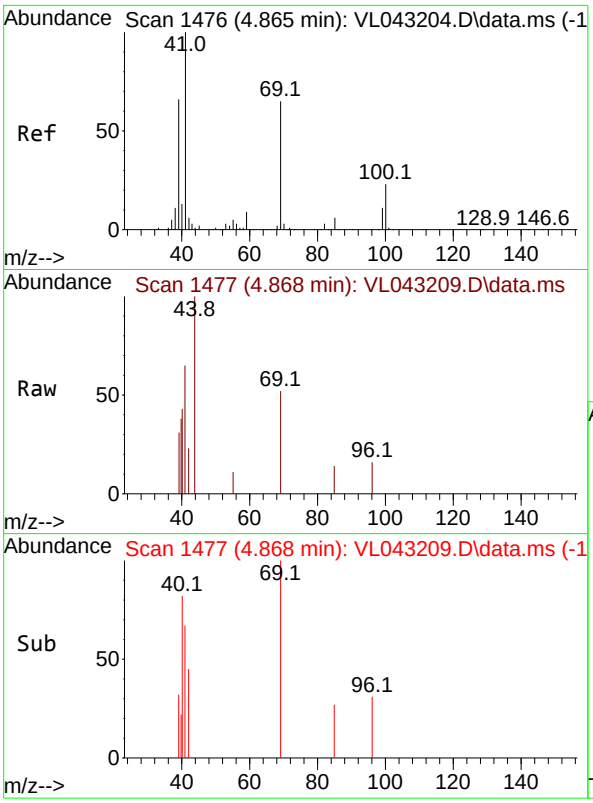


#42
Bromodichloromethane
Concen: 0.013 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 83 Resp: 268

Ion	Ratio	Lower	Upper
83	100		
85	0.0	51.7	77.5#
127	0.0	6.3	9.5#



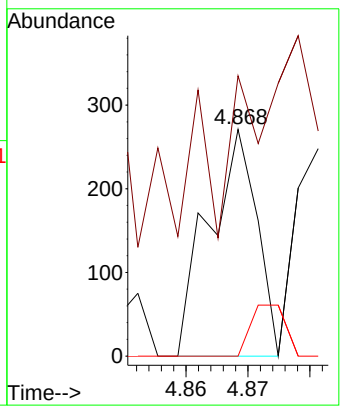


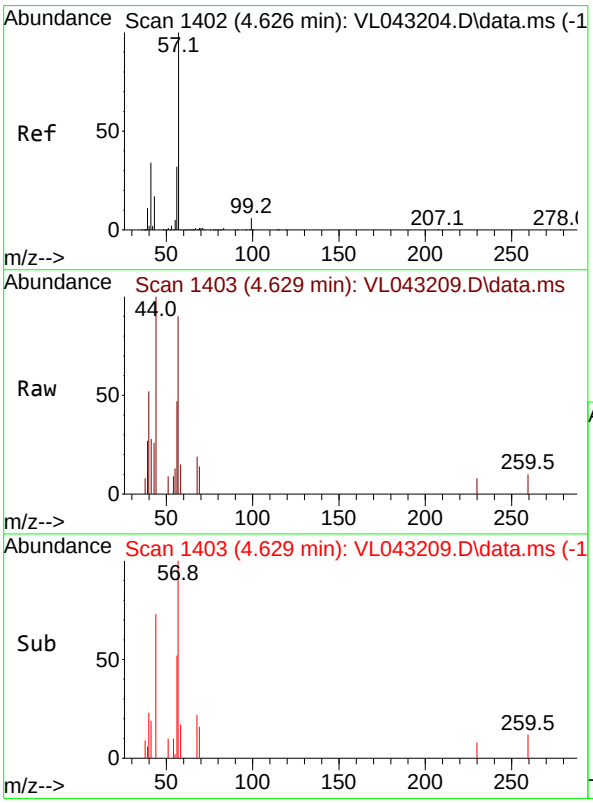
#43
Methyl Methacrylate
Concen: 0.011 ppbv
RT: 4.868 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 69 Resp: 145

Ion	Ratio	Lower	Upper
69	100		
41	0.0	126.7	190.1#
100	0.0	28.6	43.0#

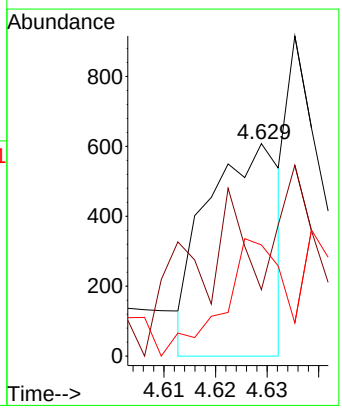


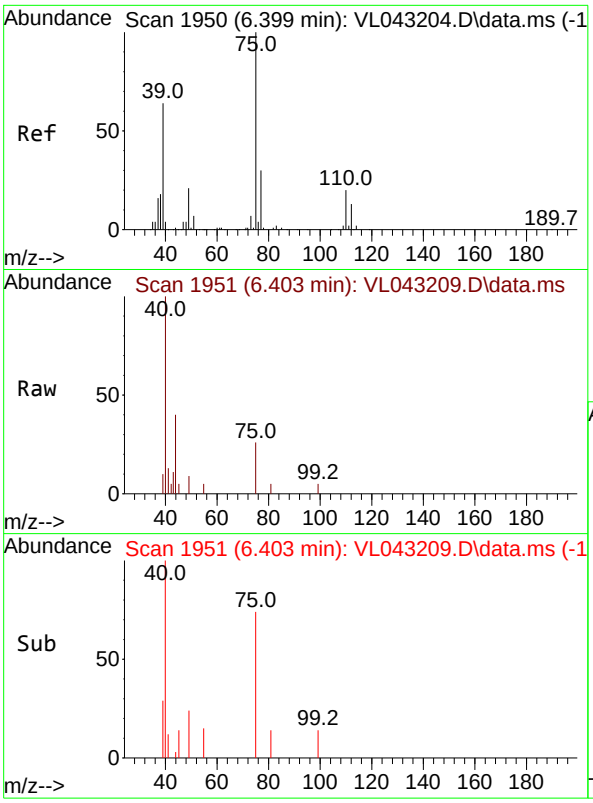


#44
2,2,4-Trimethylpentane
Concen: 0.014 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 57 Resp: 595

Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.0	42.0#
56	0.0	25.6	38.4#



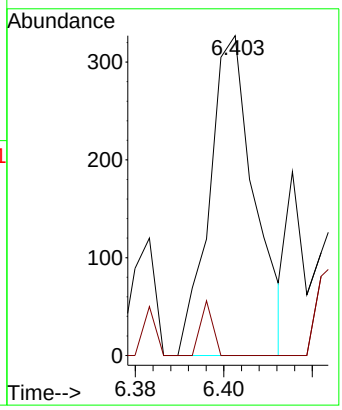


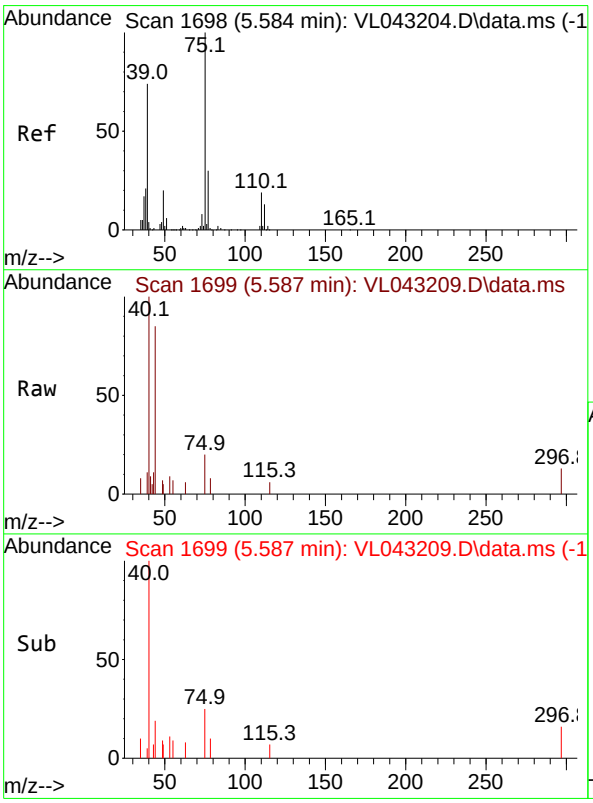
#45
t-1,3-Dichloropropene
Concen: 0.018 ppbv
RT: 6.403 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 75 Resp: 232

Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.3	36.5#

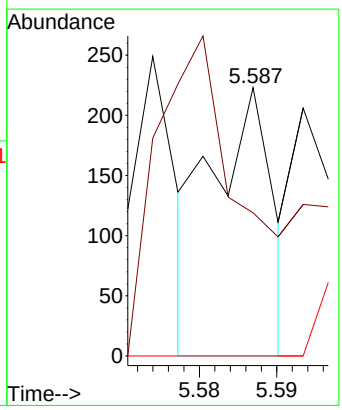


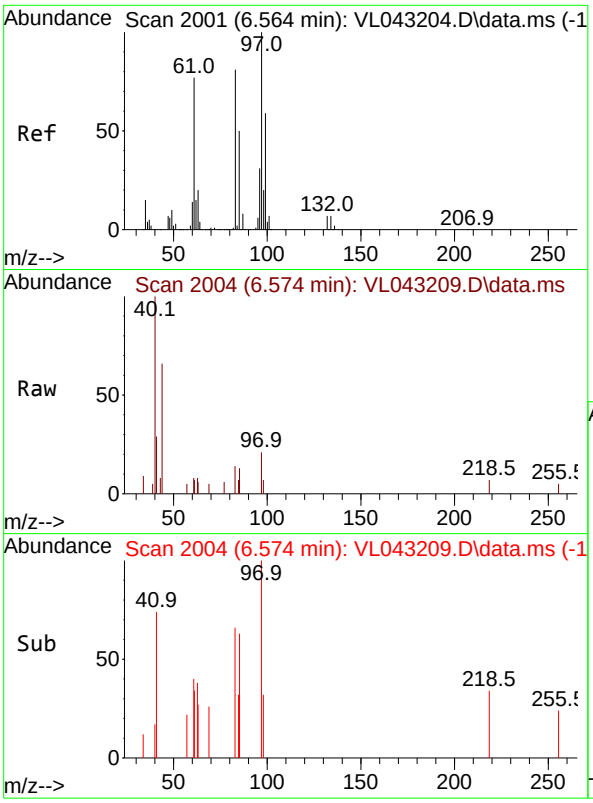


#46
cis-1,3-Dichloropropene
Concen: 0.008 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 75 Resp: 123

Ion	Ratio	Lower	Upper
75	100		
39	17.9	59.1	88.7#
77	0.0	24.2	36.2#



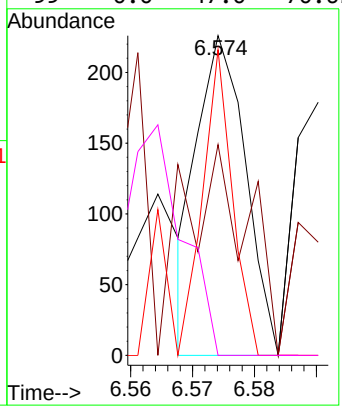


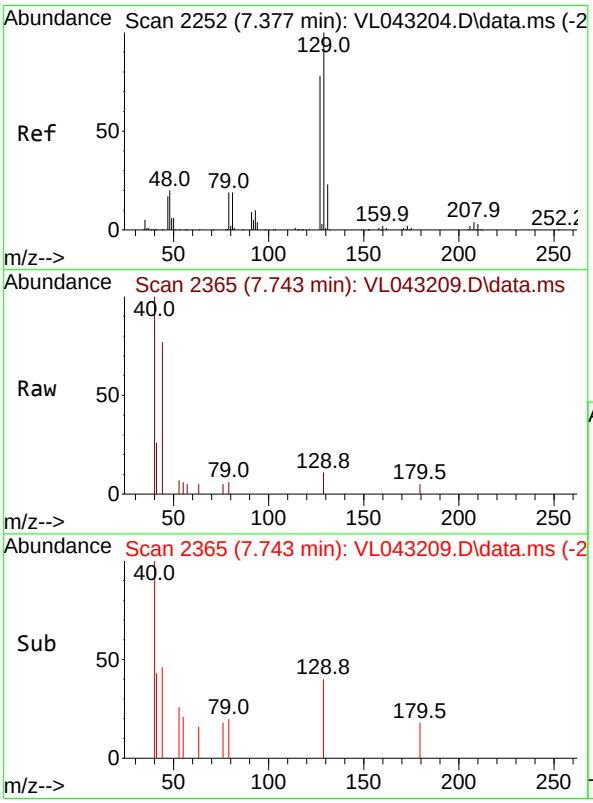
#47
1,1,2-Trichloroethane
Concen: 0.012 ppbv
RT: 6.574 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 97 Resp: 122

Ion	Ratio	Lower	Upper
97	100		
83	65.9	64.6	97.0
85	95.6	39.4	59.2#
99	0.0	47.0	70.6#

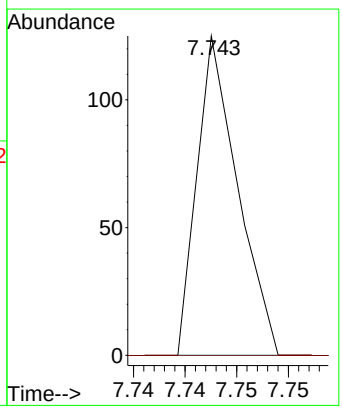


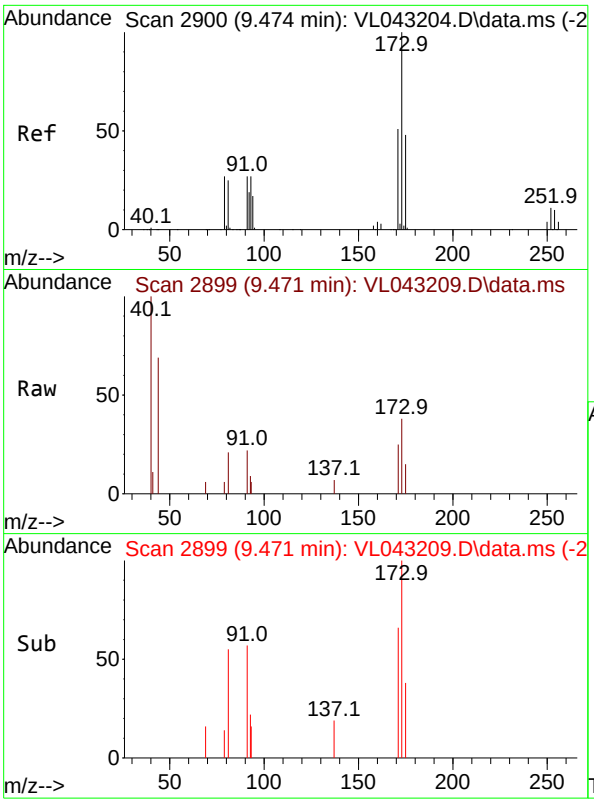


#48
Dibromochloromethane
Concen: 0.002 ppbv
RT: 7.743 min Scan# 2365
Delta R.T. 0.366 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:129 Resp: 34

Ion	Ratio	Lower	Upper
129	100		
127	111.8	39.3	117.9



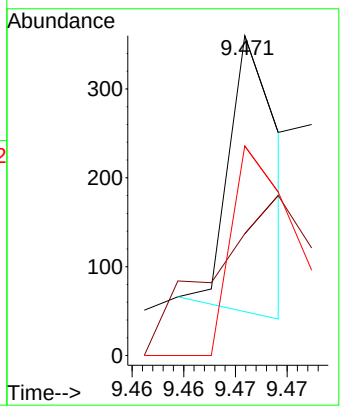


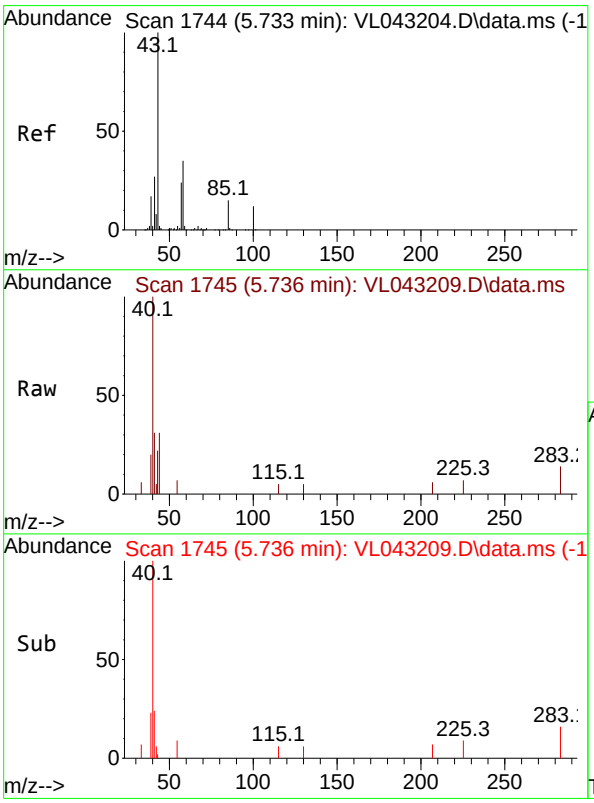
#49
Bromoform
Concen: 0.007 ppbv
RT: 9.471 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:173 Resp: 102

Ion	Ratio	Lower	Upper
173	100		
175	174.5	38.6	58.0#
171	179.4	40.6	61.0#

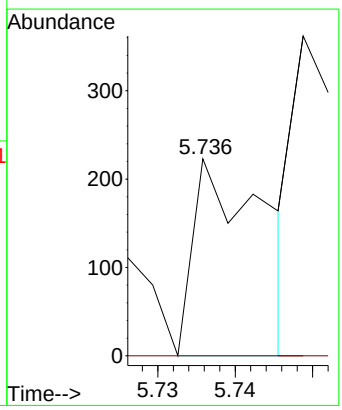


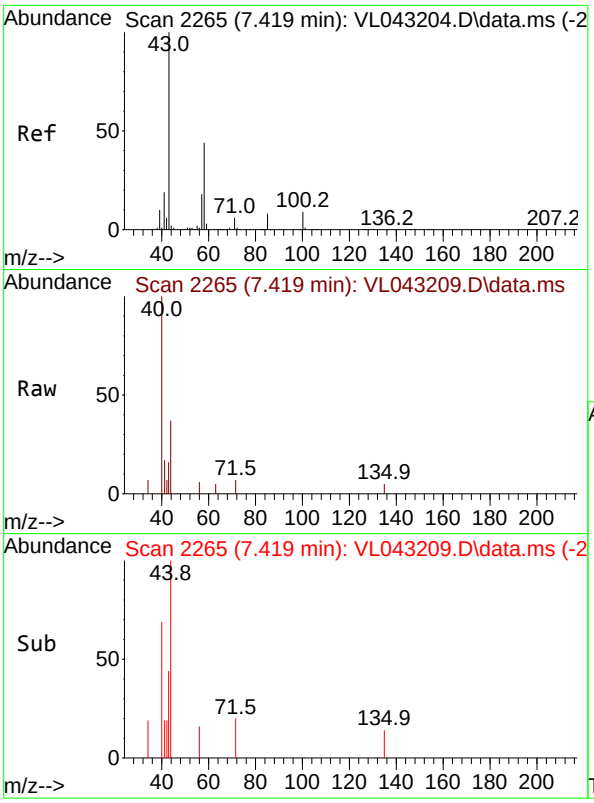


#50
4-Methyl-2-Pentanone
Concen: 0.005 ppbv
RT: 5.736 min Scan# 1745
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 43 Resp: 140

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#



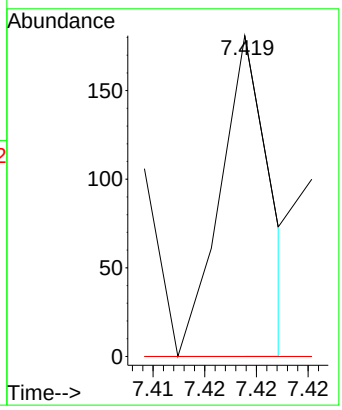


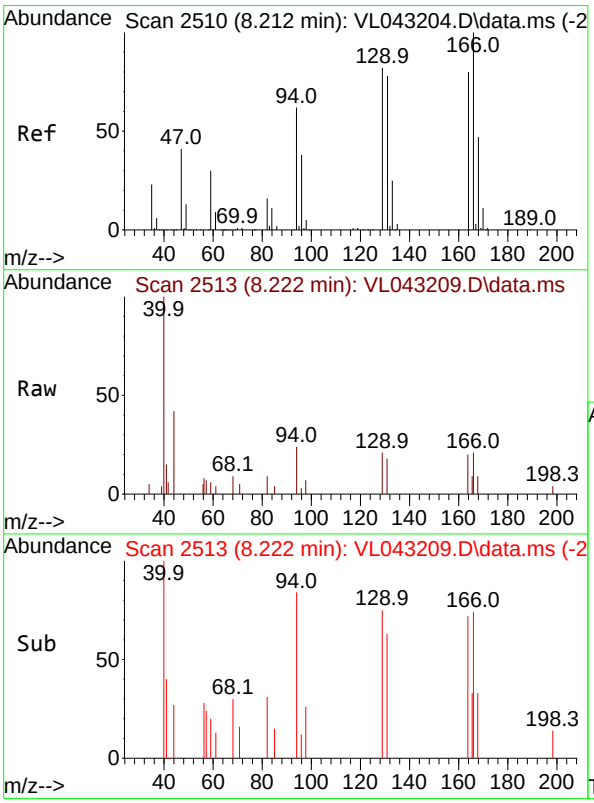
#51
2-Hexanone
Concen: 0.003 ppbv
RT: 7.419 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 43 Resp: 61

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.4	57.6#
98	0.0	0.0	0.0

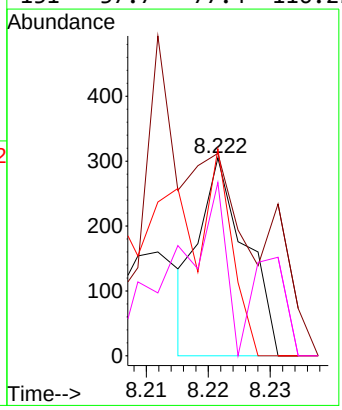


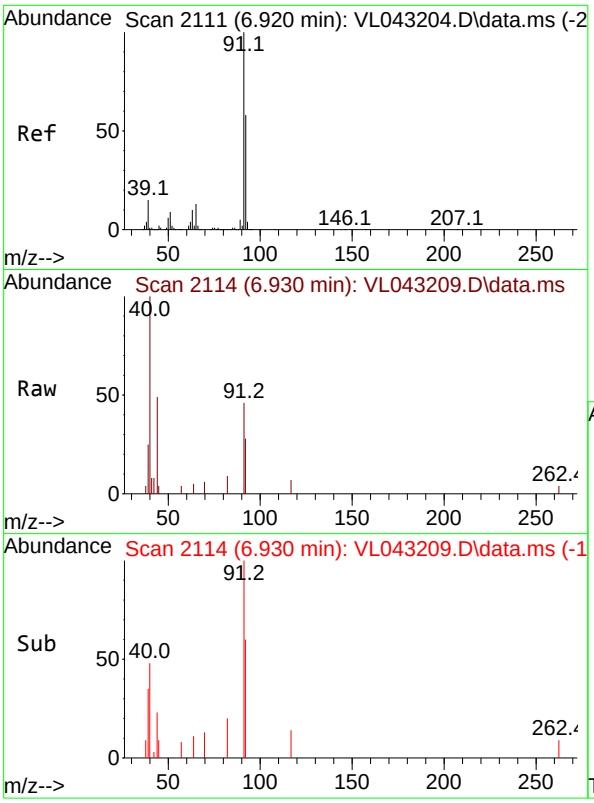


#52
Tetrachloroethene
Concen: 0.017 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:164 Resp: 158

Ion	Ratio	Lower	Upper
164	100		
166	25.6	99.4	149.2#
129	104.6	81.8	122.8
131	37.7	77.4	116.2#



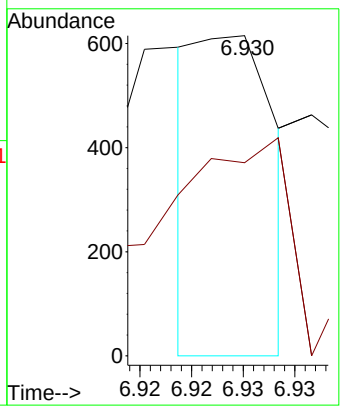


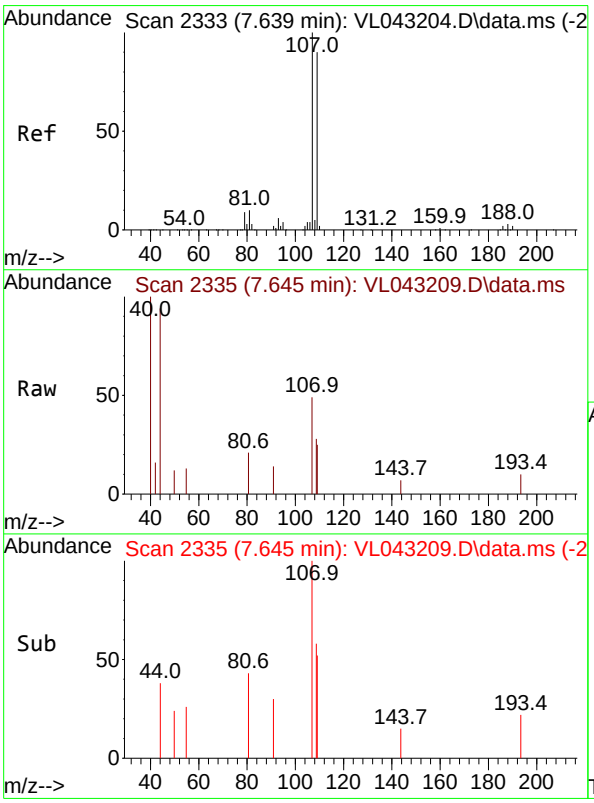
#53
Toluene
Concen: 0.011 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 323

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#

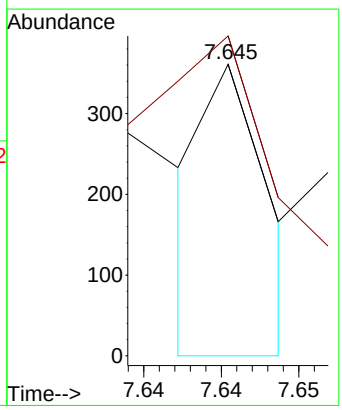


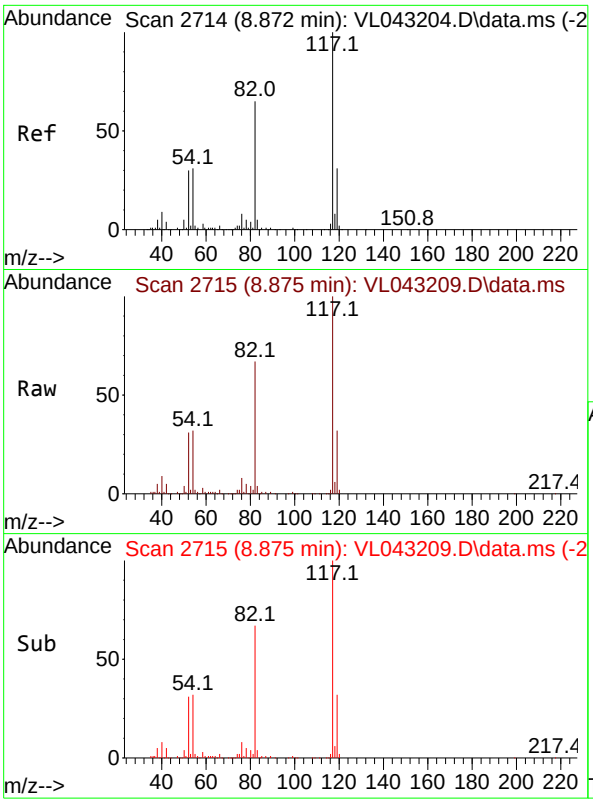


#54
1,2-Dibromoethane
Concen: 0.007 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:107 Resp: 102

Ion	Ratio	Lower	Upper
107	100		
109	102.6	72.1	108.1



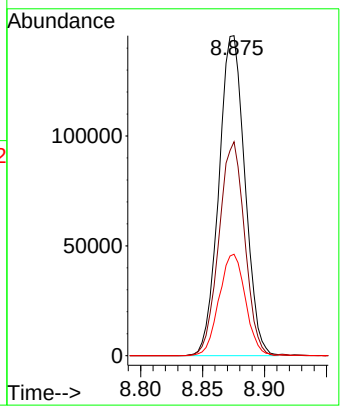


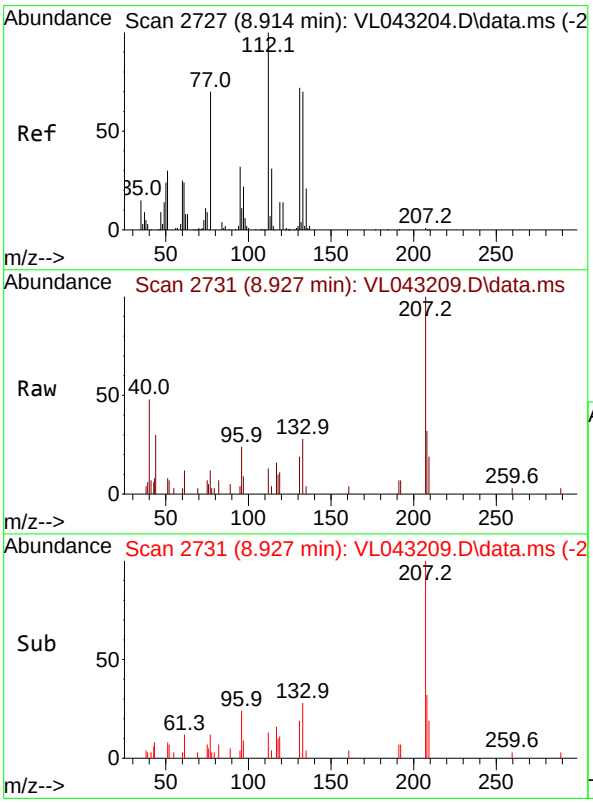
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:117 Resp: 213547

Ion	Ratio	Lower	Upper
117	100		
82	66.2	56.1	84.1
119	32.3	25.0	37.6

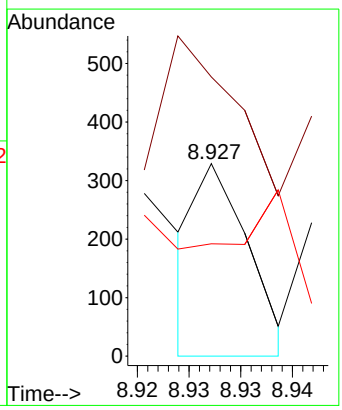


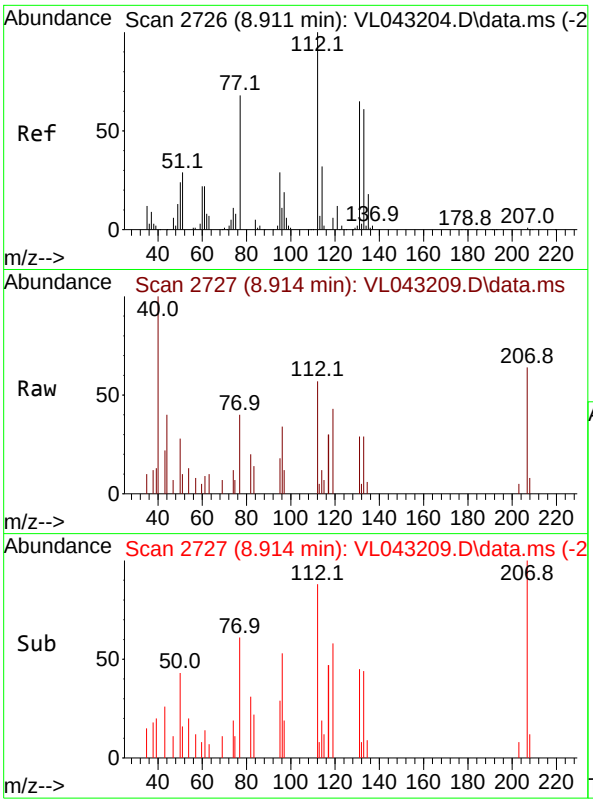


#56
1,1,1,2-Tetrachloroethane
Concen: 0.007 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.013 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:131 Resp: 114

Ion	Ratio	Lower	Upper
131	100		
133	798.2	77.4	116.2#
119	0.0	49.1	73.7#



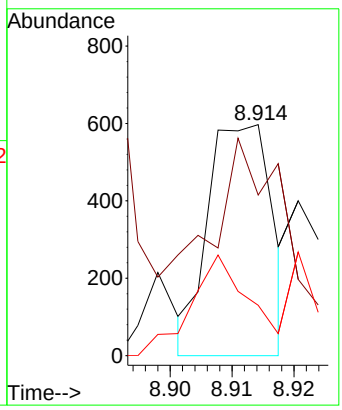


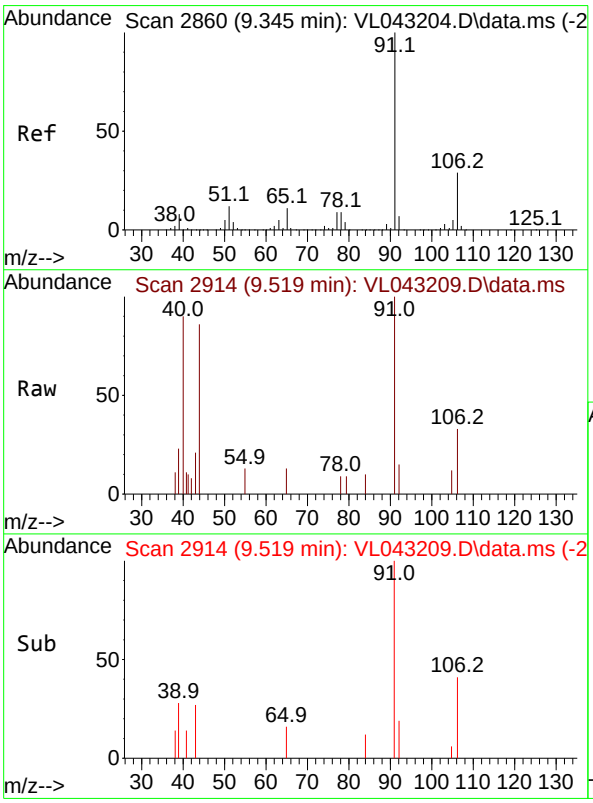
#57
Chlorobenzene
Concen: 0.020 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:112 Resp: 429

Ion	Ratio	Lower	Upper
112	100		
77	28.1	55.5	83.3#
114	13.2	29.1	35.5#

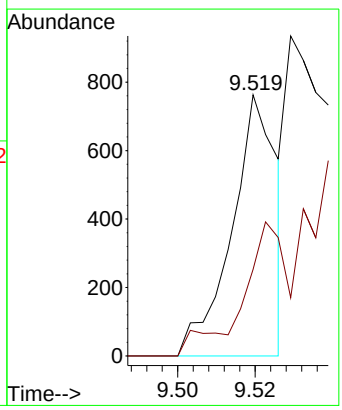


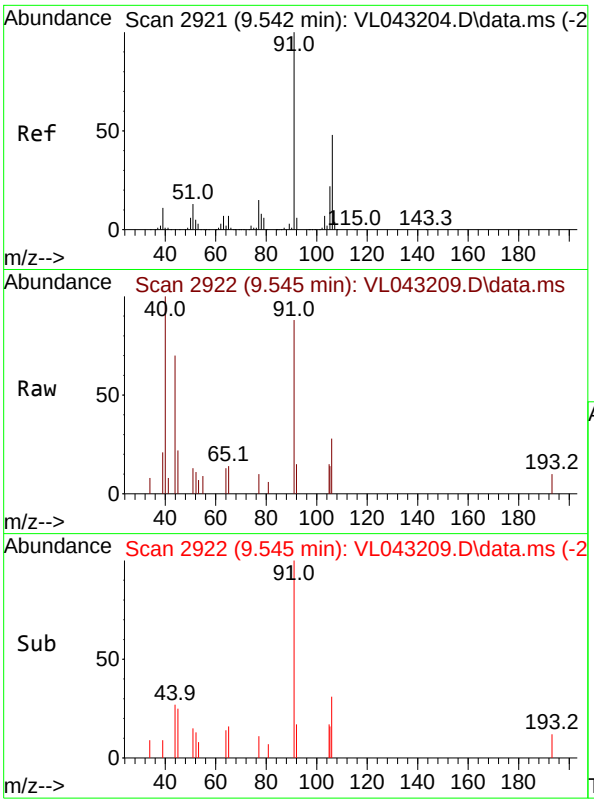


#58
Ethyl Benzene
Concen: 0.015 ppbv
RT: 9.519 min Scan# 2914
Delta R.T. 0.175 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 91 Resp: 613

Ion	Ratio	Lower	Upper
91	100		
106	33.2	22.8	34.2



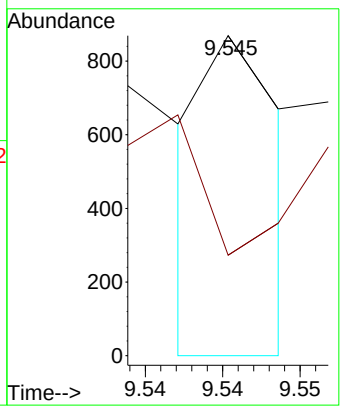


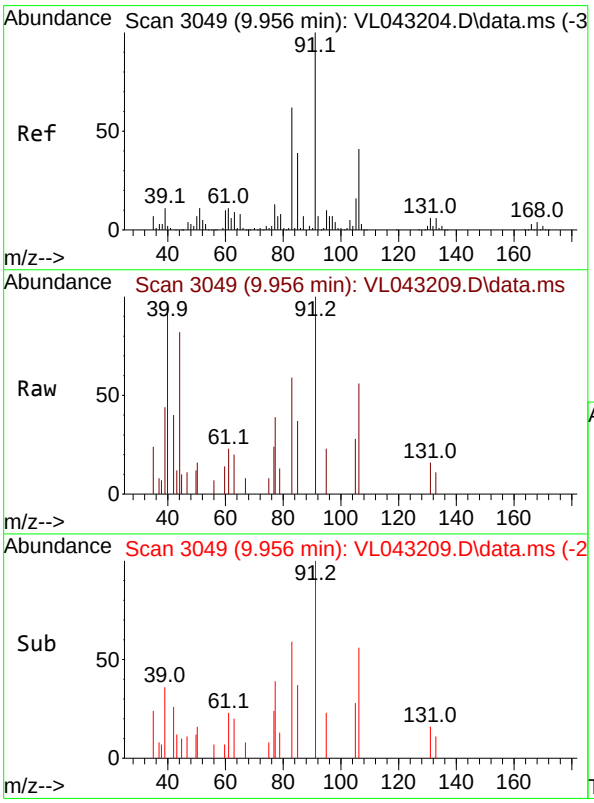
#59
m/p-Xylene
Concen: 0.009 ppbv
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 299

Ion	Ratio	Lower	Upper
91	100		
106	341.8	36.1	54.1#

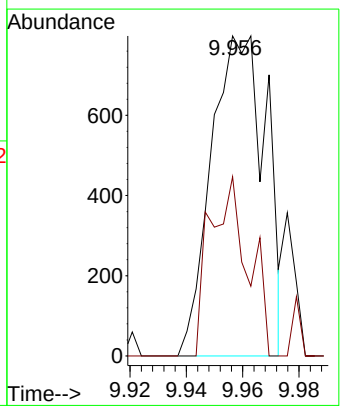


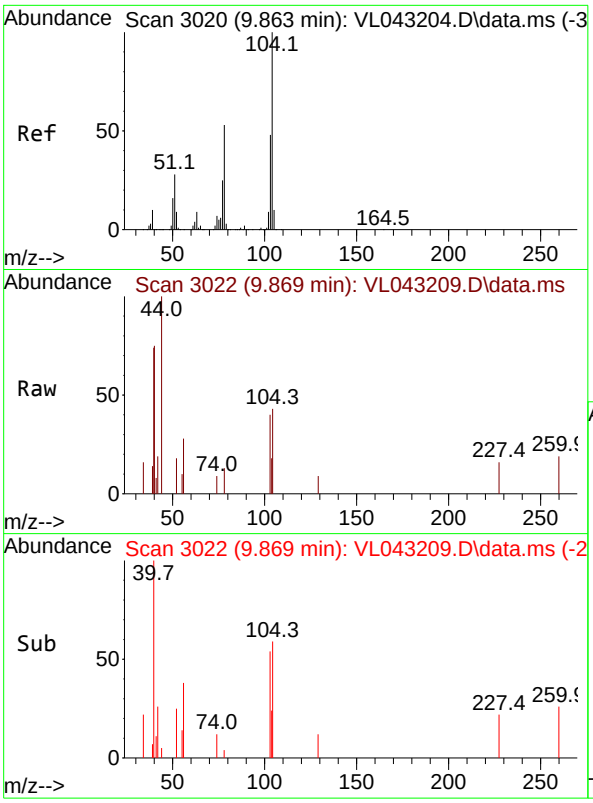


#60
o-Xylene
Concen: 0.033 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 91 Resp: 1078

Ion	Ratio	Lower	Upper
91	100		
106	41.6	20.9	62.8



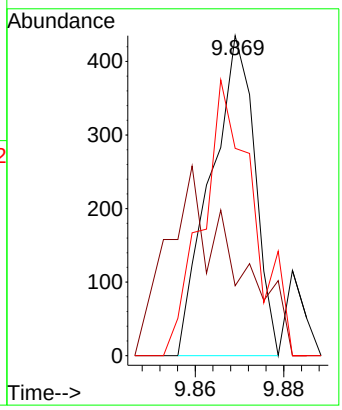


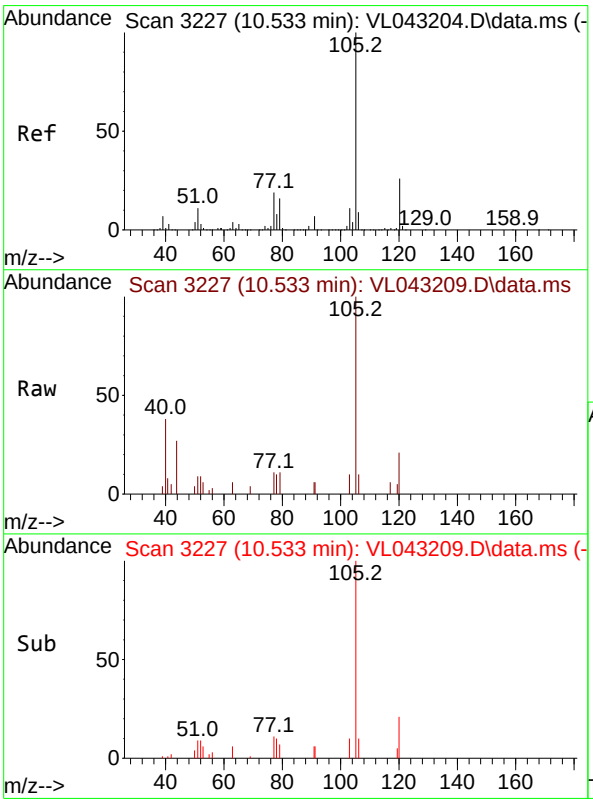
#61
Styrene
Concen: 0.021 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:104 Resp: 300

Ion	Ratio	Lower	Upper
104	100		
78	49.7	42.1	63.1
103	109.0	37.2	55.8#

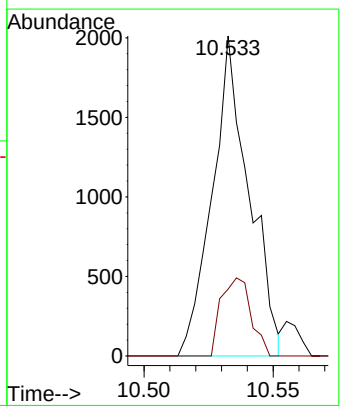


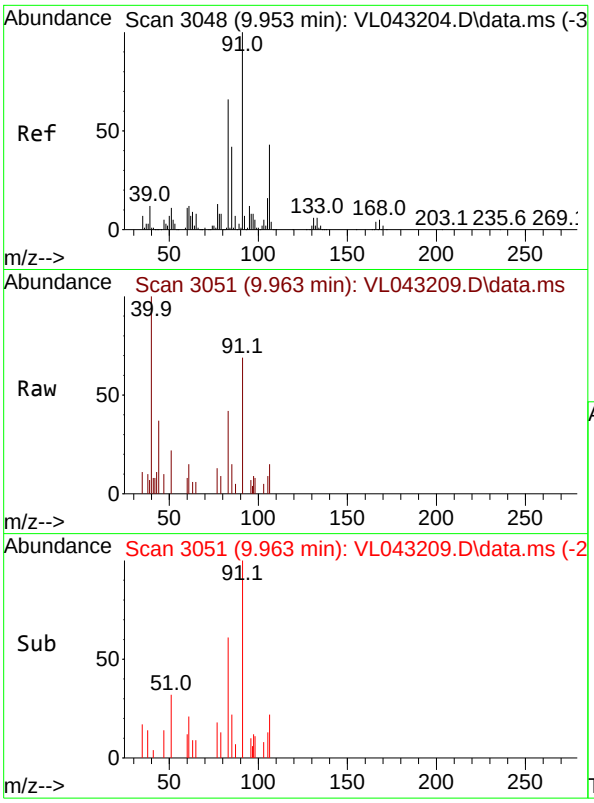


#62
Isopropylbenzene
Concen: 0.034 ppbv
RT: 10.533 min Scan# 3227
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:105 Resp: 1990

Ion	Ratio	Lower	Upper
105	100		
120	19.9	19.8	29.8



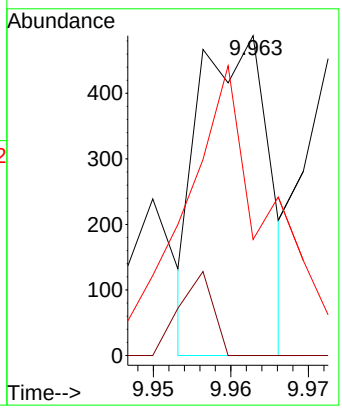


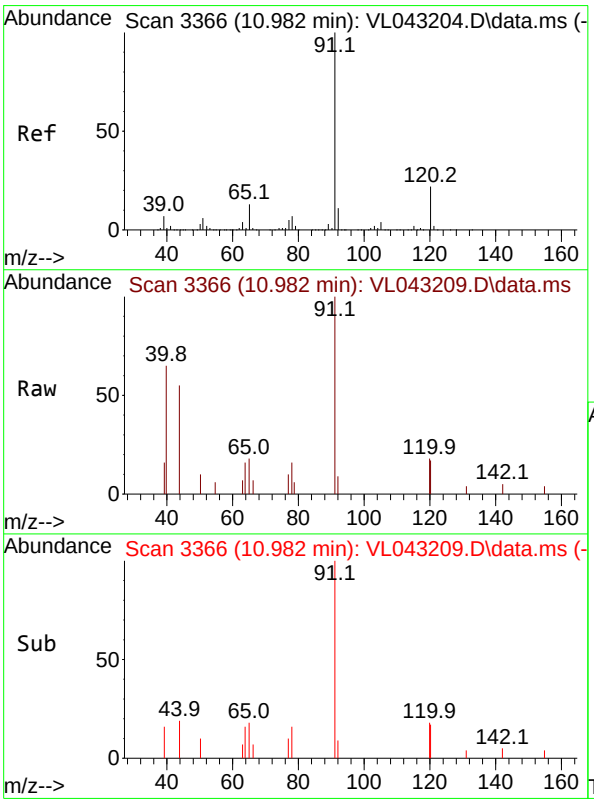
#63
1,1,2,2-Tetrachloroethane
Concen: 0.015 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 83 Resp: 306

Ion	Ratio	Lower	Upper
83	100		
131	12.7	4.8	14.3
85	110.5	31.9	95.9#

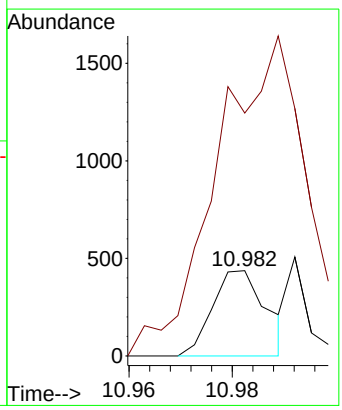


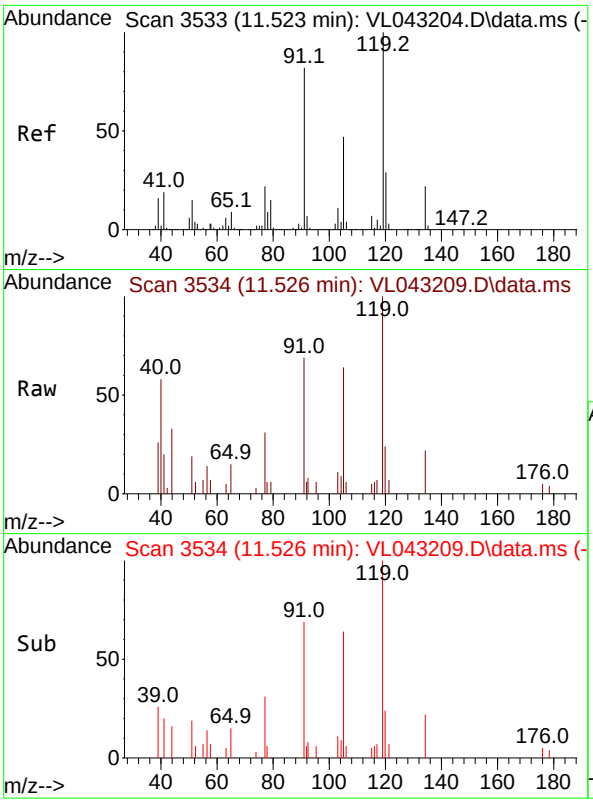


#64
n-propylbenzene
Concen: 0.021 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:120 Resp: 316

Ion	Ratio	Lower	Upper
120	100		
91	519.6	377.1	565.7



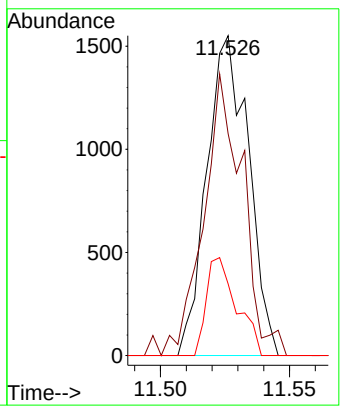


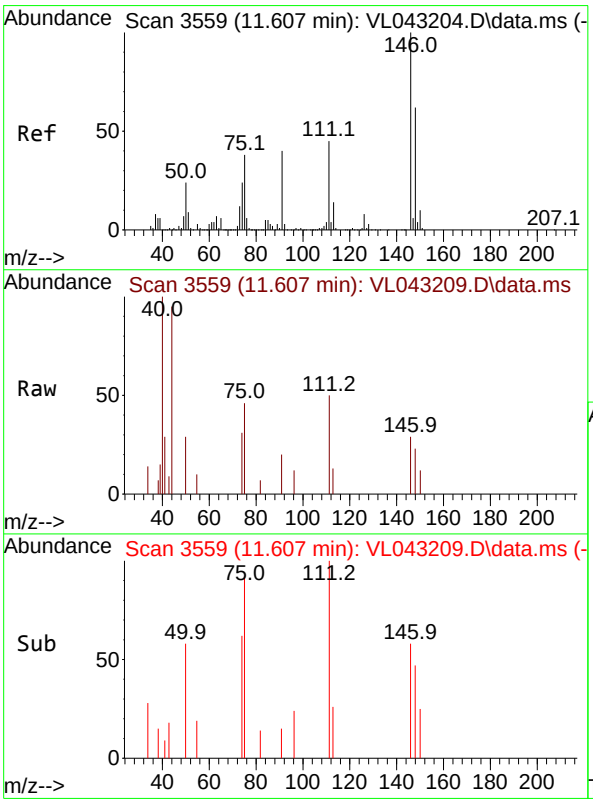
#65
tert-Butylbenzene
Concen: 0.033 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:119 Resp: 1740

Ion	Ratio	Lower	Upper
119	100		
91	83.2	65.3	97.9
134	22.4	17.0	25.4

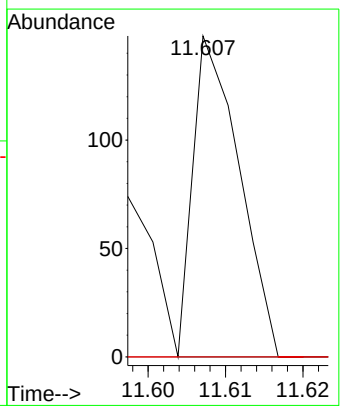


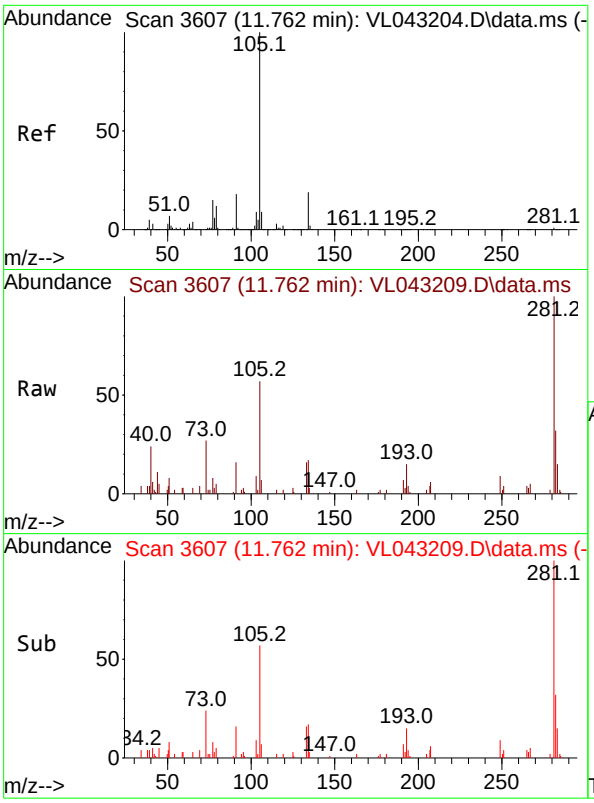


#66
Benzyl Chloride
Concen: 0.012 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 91 Resp: 62

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.4	21.6#
128	0.0	4.6	6.8#



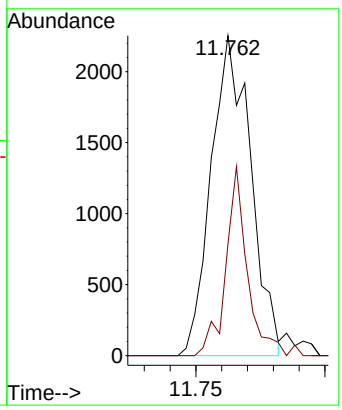


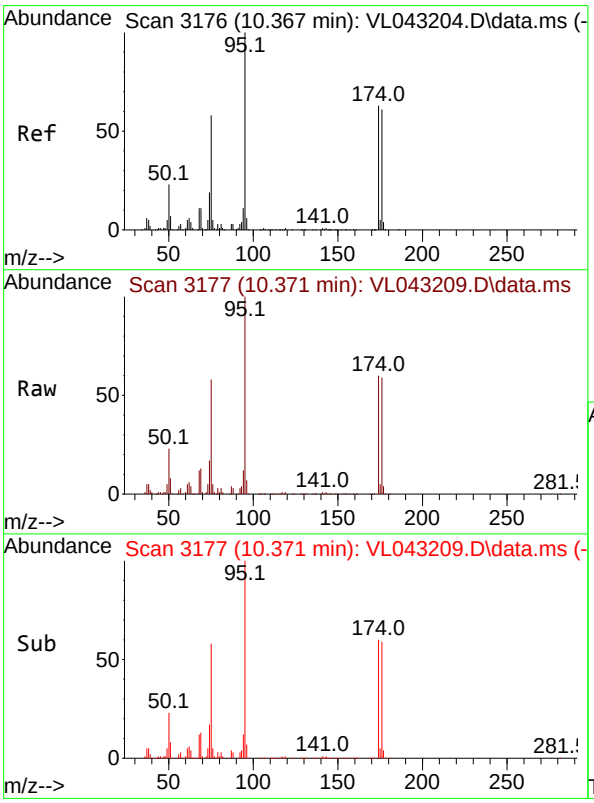
#67
sec-Butylbenzene
Concen: 0.033 ppbv
RT: 11.762 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 2398

Ion	Ratio	Lower	Upper
105	100		
134	32.4	15.0	22.6#

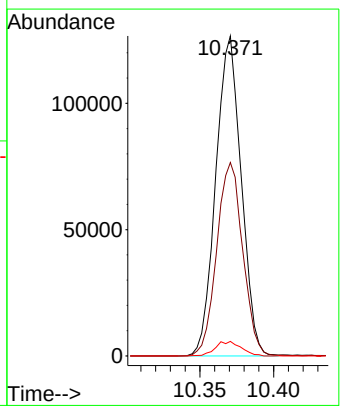


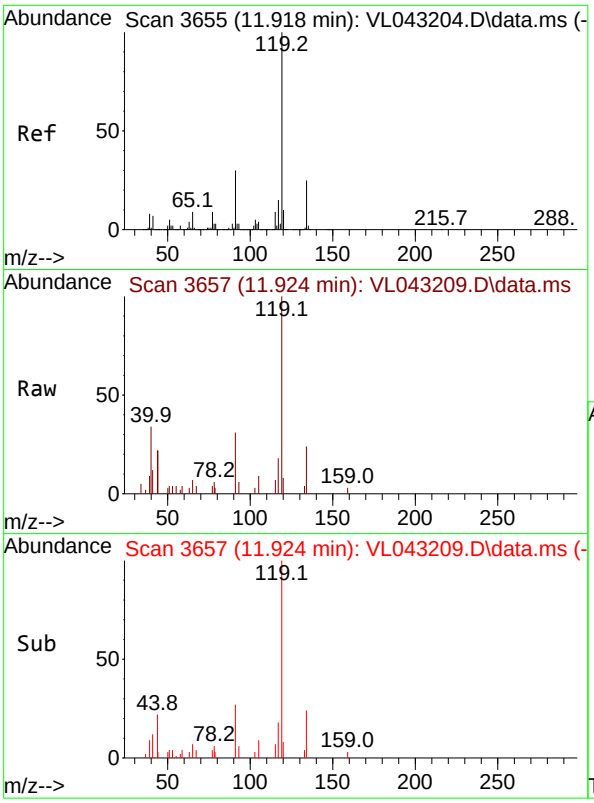


#68
1-Bromo-4-Fluorobenzene
Concen: 9.712 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 95 Resp: 152015

Ion	Ratio	Lower	Upper
95	100		
174	62.0	50.2	75.2
175	4.6	4.1	6.1



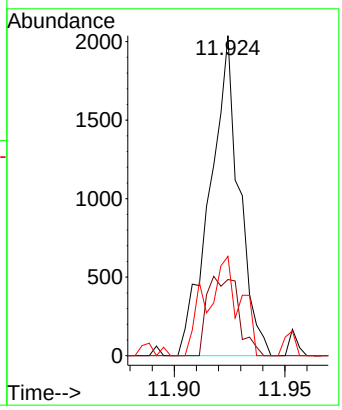


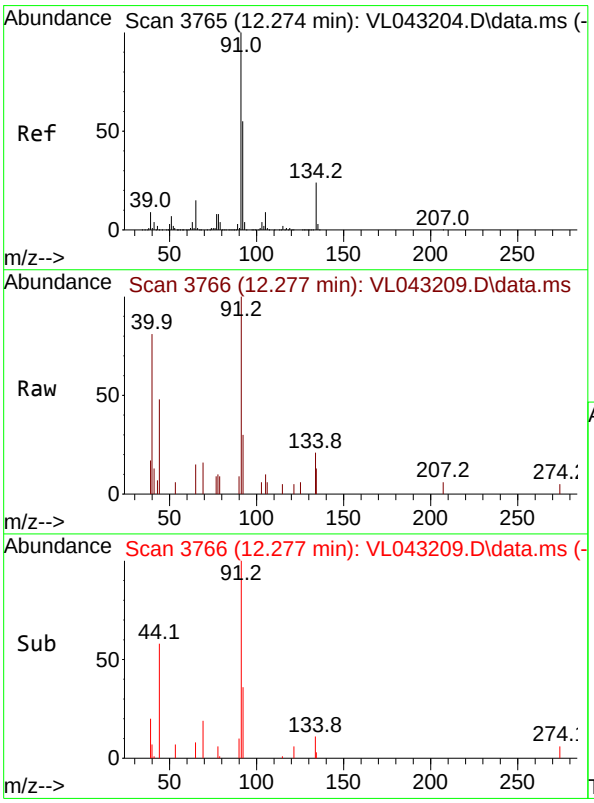
#69
p-Isopropyltoluene
Concen: 0.030 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:119 Resp: 1875

Ion	Ratio	Lower	Upper
119	100		
134	26.7	20.2	30.2
91	37.8	23.8	35.8#

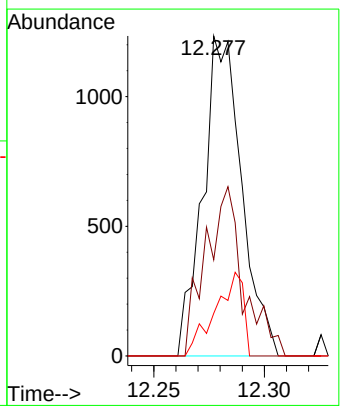


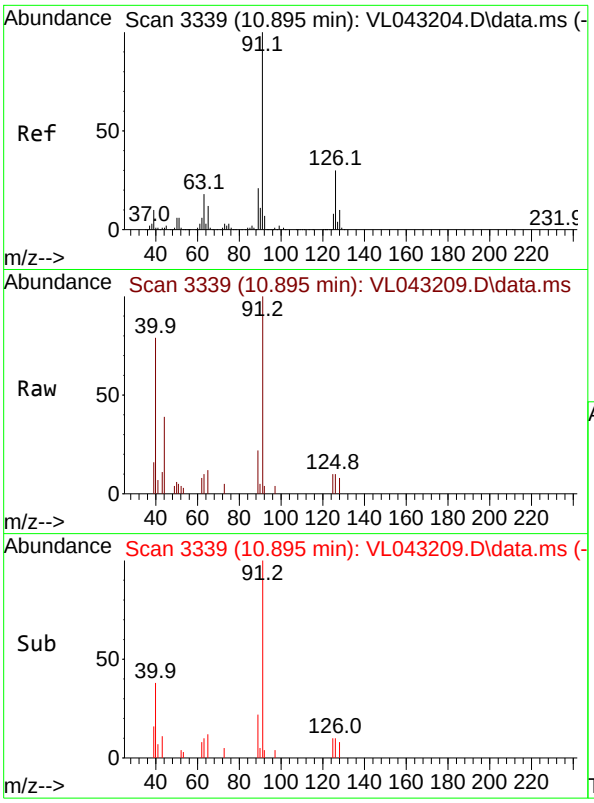


#70
n-Butylbenzene
Concen: 0.025 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion: 91 Resp: 1502

Ion	Ratio	Lower	Upper
91	100		
92	51.6	43.5	65.3
134	19.0	19.0	28.6



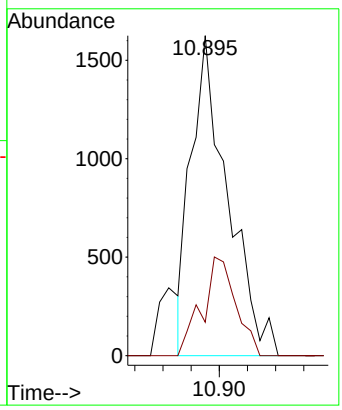


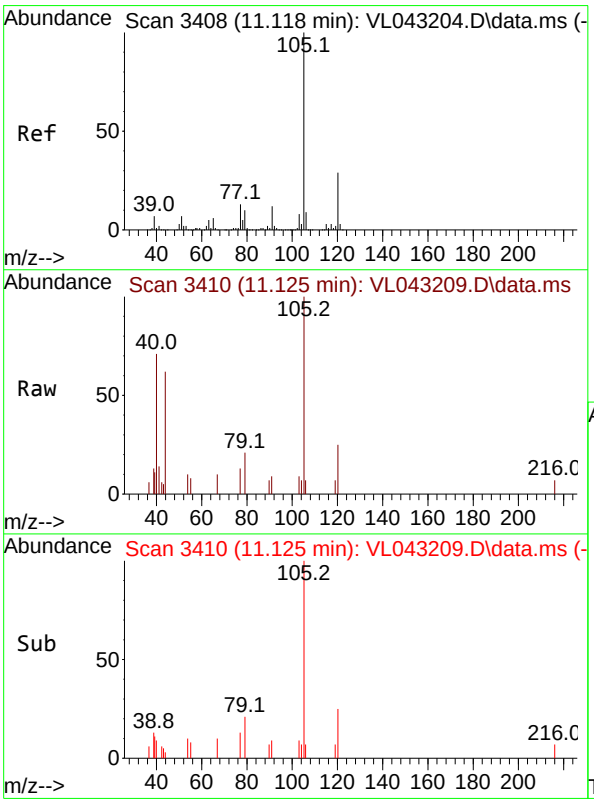
#71
2-Chlorotoluene
Concen: 0.032 ppbv
RT: 10.895 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 91 Resp: 1463

Ion	Ratio	Lower	Upper
91	100		
126	28.2	11.7	46.7

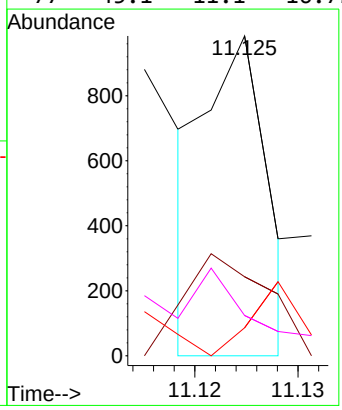


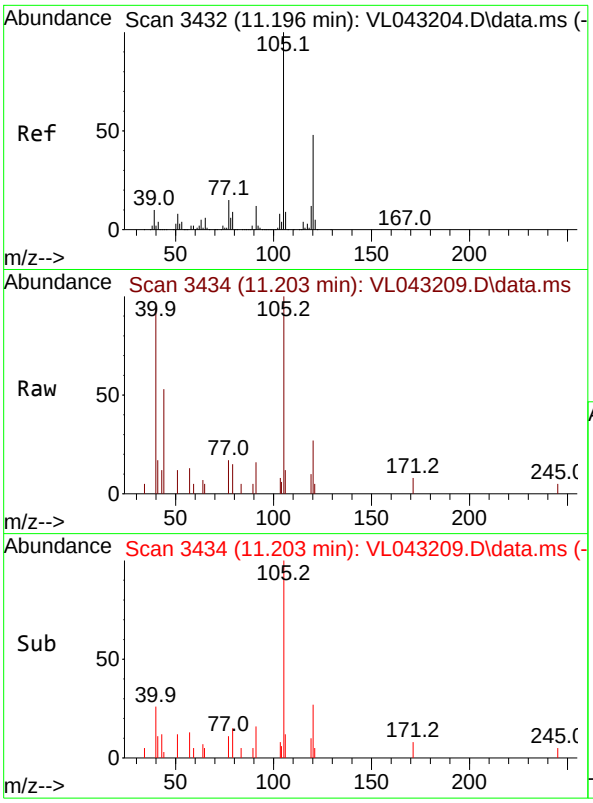


#72
4-Ethyltoluene
Concen: 0.010 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:105 Resp: 408

Ion	Ratio	Lower	Upper
105	100		
120	42.9	23.8	35.8#
91	0.0	10.3	15.5#
77	45.1	11.1	16.7#



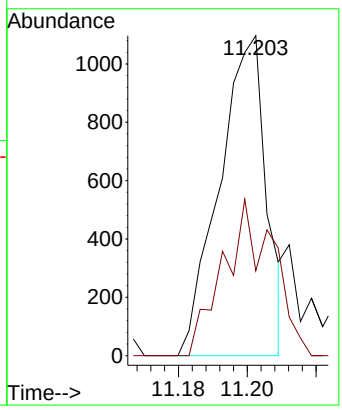


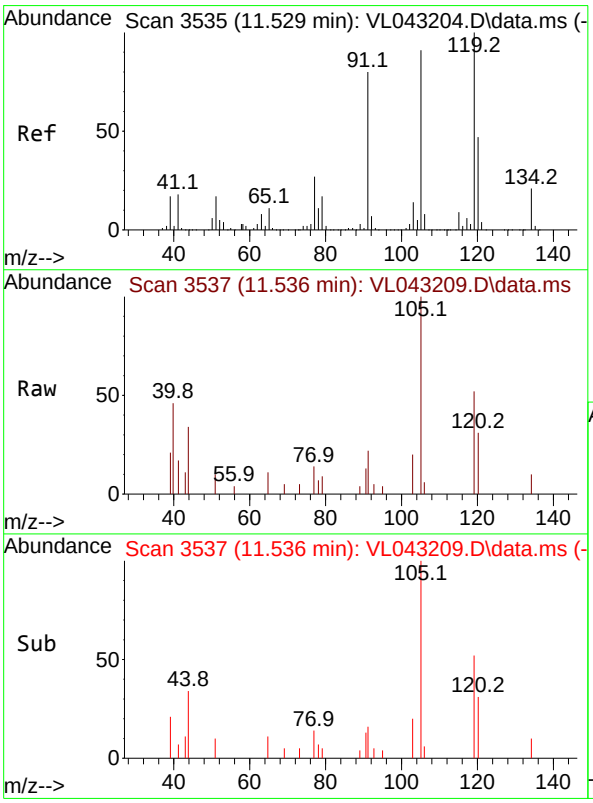
#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 11.203 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:105 Resp: 1041

Ion	Ratio	Lower	Upper
105	100		
120	26.5	38.6	57.8#

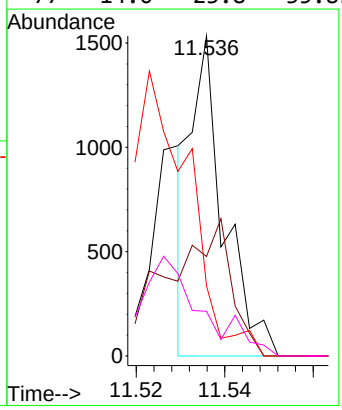


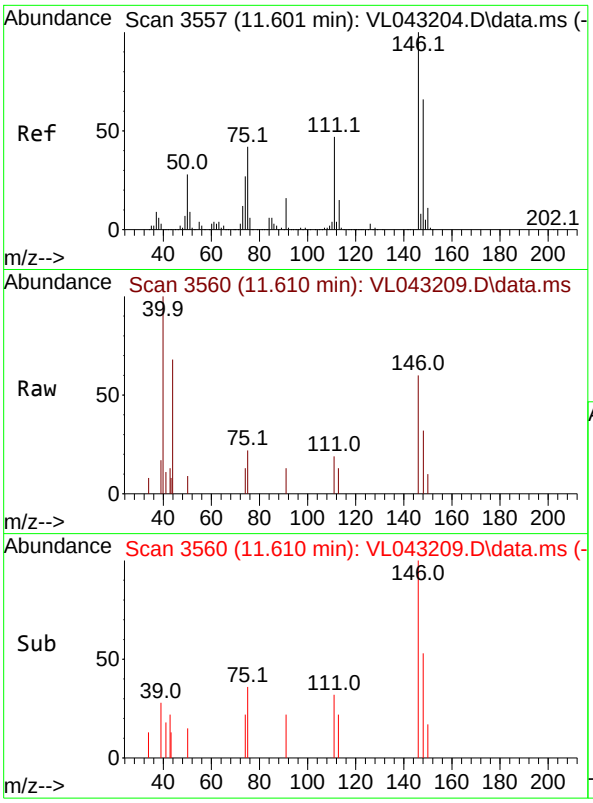


#74
1,2,4-Trimethylbenzene
Concen: 0.021 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:105 Resp: 789

Ion	Ratio	Lower	Upper
105	100		
120	31.1	41.7	62.5#
91	21.9	70.0	105.0#
77	14.0	23.8	35.8#



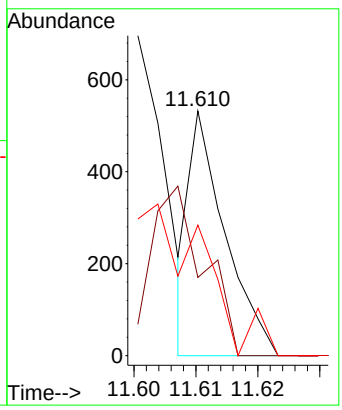


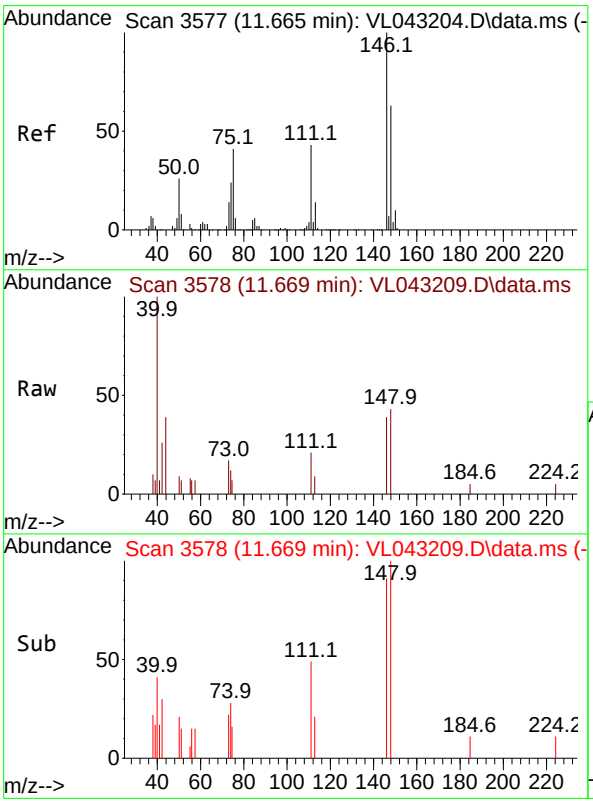
#75
1,3-Dichlorobenzene
Concen: 0.010 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:146 Resp: 214

Ion	Ratio	Lower	Upper
146	100		
111	126.2	23.4	70.3#
148	144.9	31.6	95.0#

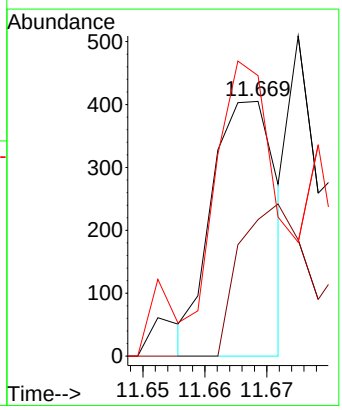


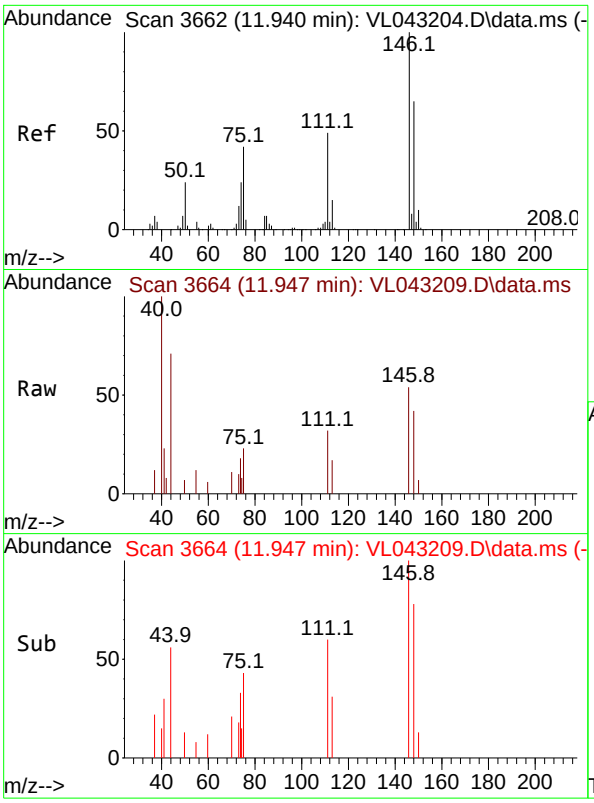


#76
1,4-Dichlorobenzene
Concen: 0.014 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:146 Resp: 292

Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.8	68.3#
148	157.5	31.8	95.4#



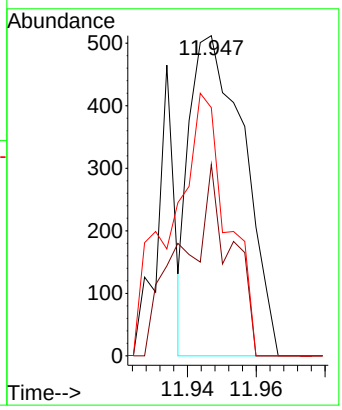


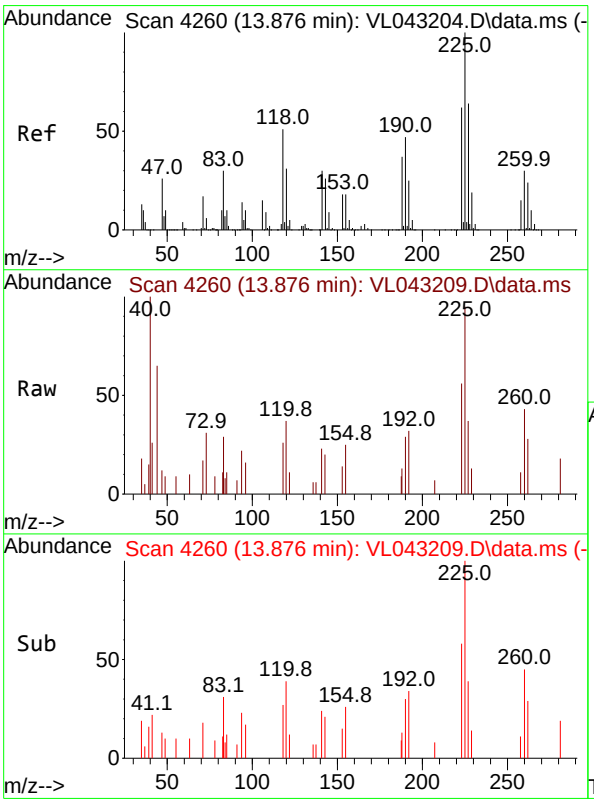
#77
1,2-Dichlorobenzene
Concen: 0.027 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:146 Resp: 561

Ion	Ratio	Lower	Upper
146	100		
111	53.7	24.3	73.0
148	85.2	31.6	94.7

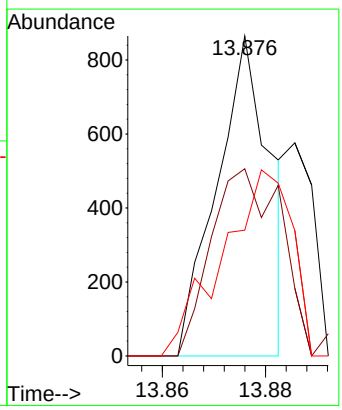


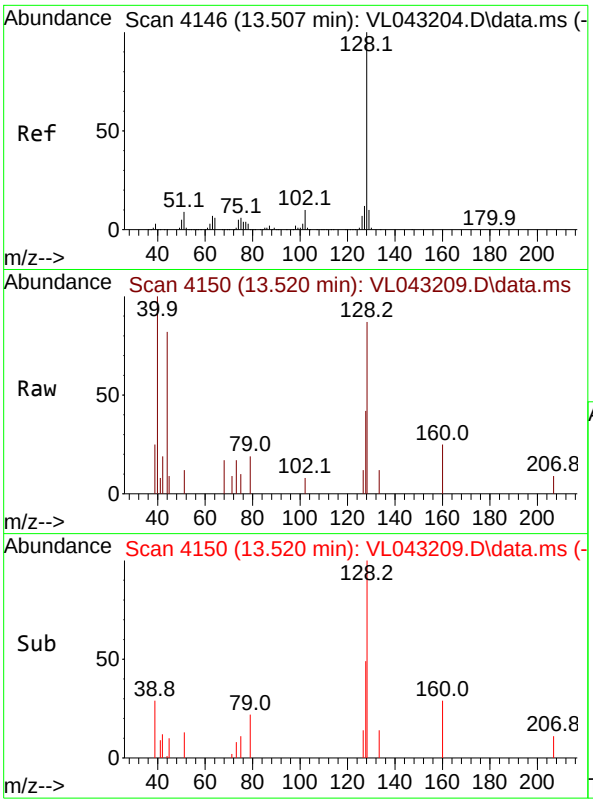


#78
Hexachloro-1,3-Butadiene
Concen: 0.036 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. 0.000 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:225 Resp: 622

Ion	Ratio	Lower	Upper
225	100		
223	78.3	50.2	75.4#
227	75.2	51.1	76.7



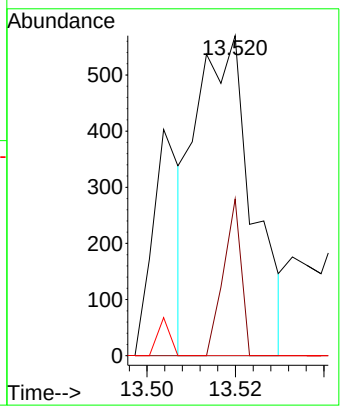


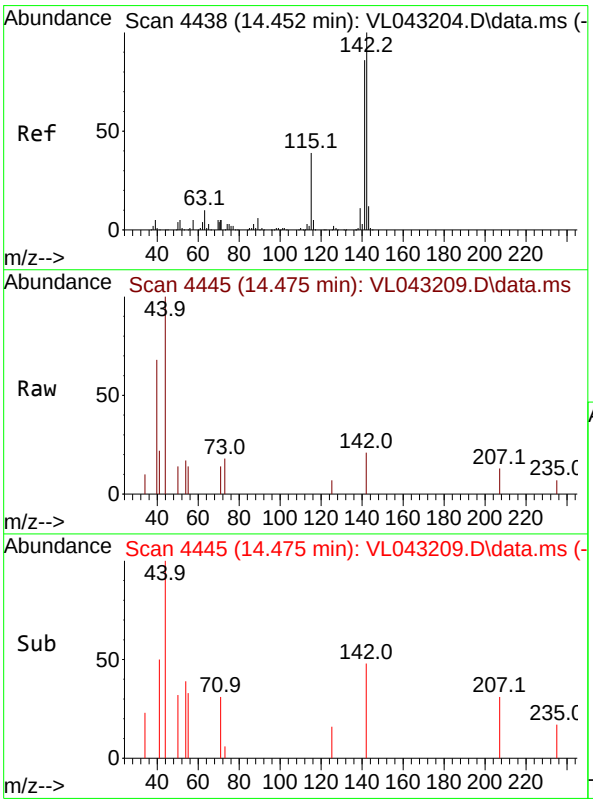
#79
Naphthalene
Concen: 0.015 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:128 Resp: 504

Ion	Ratio	Lower	Upper
128	100		
127	65.8	9.9	14.9#
129	0.0	8.4	12.6#

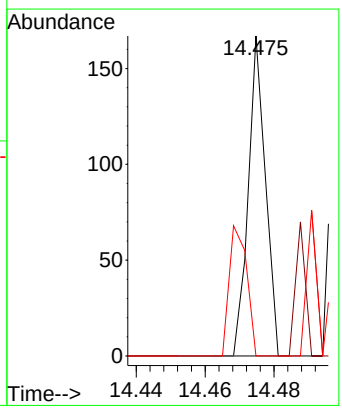


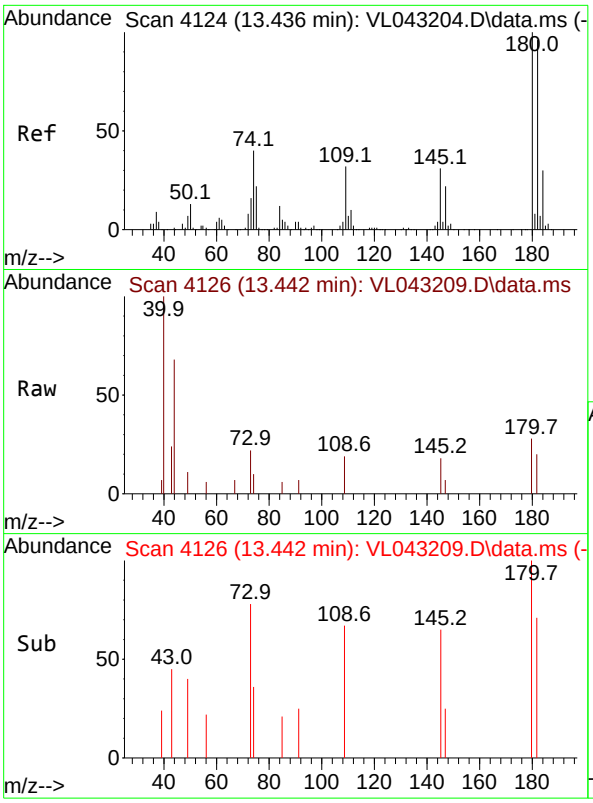


#80
Naphthalene,2-methyl-
Concen: 0.007 ppbv
RT: 14.475 min Scan# 4445
Delta R.T. 0.023 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Tgt Ion:142 Resp: 58

Ion	Ratio	Lower	Upper
142	100		
141	0.0	67.1	100.7#
115	41.4	31.9	47.9



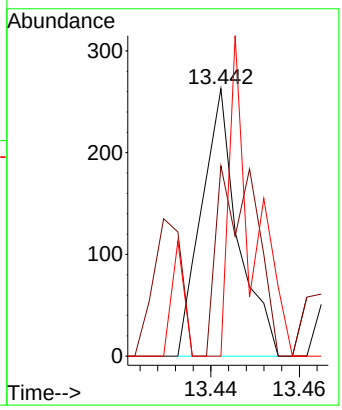


#81
1,2,4-Trichlorobenzene
Concen: 0.010 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043209.D
Acq: 18 Nov 2025 12:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion:180 Resp: 150

Ion	Ratio	Lower	Upper
180	100		
182	132.0	77.4	116.2#
184	92.0	24.2	36.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043210.D
Acq On : 18 Nov 2025 13:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	98968	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	258461	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	211247	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	159814	10.321	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	197987	14.184	ppbv	99
3) Chlorodifluoromethane	1.476	51	182813	13.317	ppbv	98
4) Chloromethane	1.531	50	72636	13.918	ppbv	97
5) Vinyl Chloride	1.580	62	71671	12.557	ppbv	96
6) Bromomethane	1.667	94	38265	13.830	ppbv	98
7) Chloroethane	1.703	64	29584	13.309	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	165709	14.271	ppbv	97
9) Propene	1.771	41	77762	12.212	ppbv	99
10) Heptane	4.972	43	225935	12.934	ppbv	100
11) Trichlorofluoromethane	1.874	101	200703	14.840	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	152772	14.469	ppbv	98
13) Ethanol	1.719	45	25468	12.425	ppbv	99
14) Bromoethene	1.781	108	55813	13.789	ppbv	96
15) Acetone	1.832	43	161036	11.712	ppbv	99
16) 1,3-Butadiene	1.609	39	81077	13.226	ppbv	99
17) tert-Butyl alcohol	2.036	59	257617	14.274	ppbv	99
18) 1,1-Dichloroethene	2.033	96	65731	13.370	ppbv	96
19) Isopropyl Alcohol	1.881	45	105271	13.549	ppbv	99
20) Methylene Chloride	2.059	84	59798	15.164	ppbv	93
21) Allyl Chloride	2.094	41	126959	13.724	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	77386	13.772	ppbv	94
23) Vinyl Acetate	2.457	43	232315	13.995	ppbv	99
24) 1,1-Dichloroethane	2.405	63	155017	14.292	ppbv	98
25) Ethyl Acetate	2.829	43	394074	13.265	ppbv	99
26) Hexane	2.823	57	172303	13.252	ppbv	97
27) Carbon Disulfide	2.150	76	191612	14.435	ppbv	97
28) Methyl tert-Butyl Ether	2.434	73	91132	14.279	ppbv	97
29) Chloroform	2.845	83	262803	14.221	ppbv	100
30) Cyclohexane	3.852	84	152015	13.946	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	180647	13.978	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	276915	13.930	ppbv	98
34) 2-Butanone	2.551	43	253855	13.914	ppbv	100
35) Carbon Tetrachloride	3.755	117	279560	14.250	ppbv	96
36) Benzene	3.651	78	348892	14.096	ppbv	99
37) 1,2-Dichloroethane	3.214	62	214248	14.798	ppbv	98
38) Trichloroethene	4.541	130	137027	14.123	ppbv	93
39) 1,2-Dichloropropane	4.302	63	128700	14.206	ppbv	98
40) 1,4-Dioxane	4.571	88	55905	13.728	ppbv #	95
41) Tetrahydrofuran	3.043	42	139722	13.868	ppbv	99
42) Bromodichloromethane	4.480	83	294008	14.721	ppbv	97
43) Methyl Methacrylate	4.872	69	179110	13.633	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	595778	14.014	ppbv	99
45) t-1,3-Dichloropropene	6.406	75	177678	14.508	ppbv	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043210.D
Acq On : 18 Nov 2025 13:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

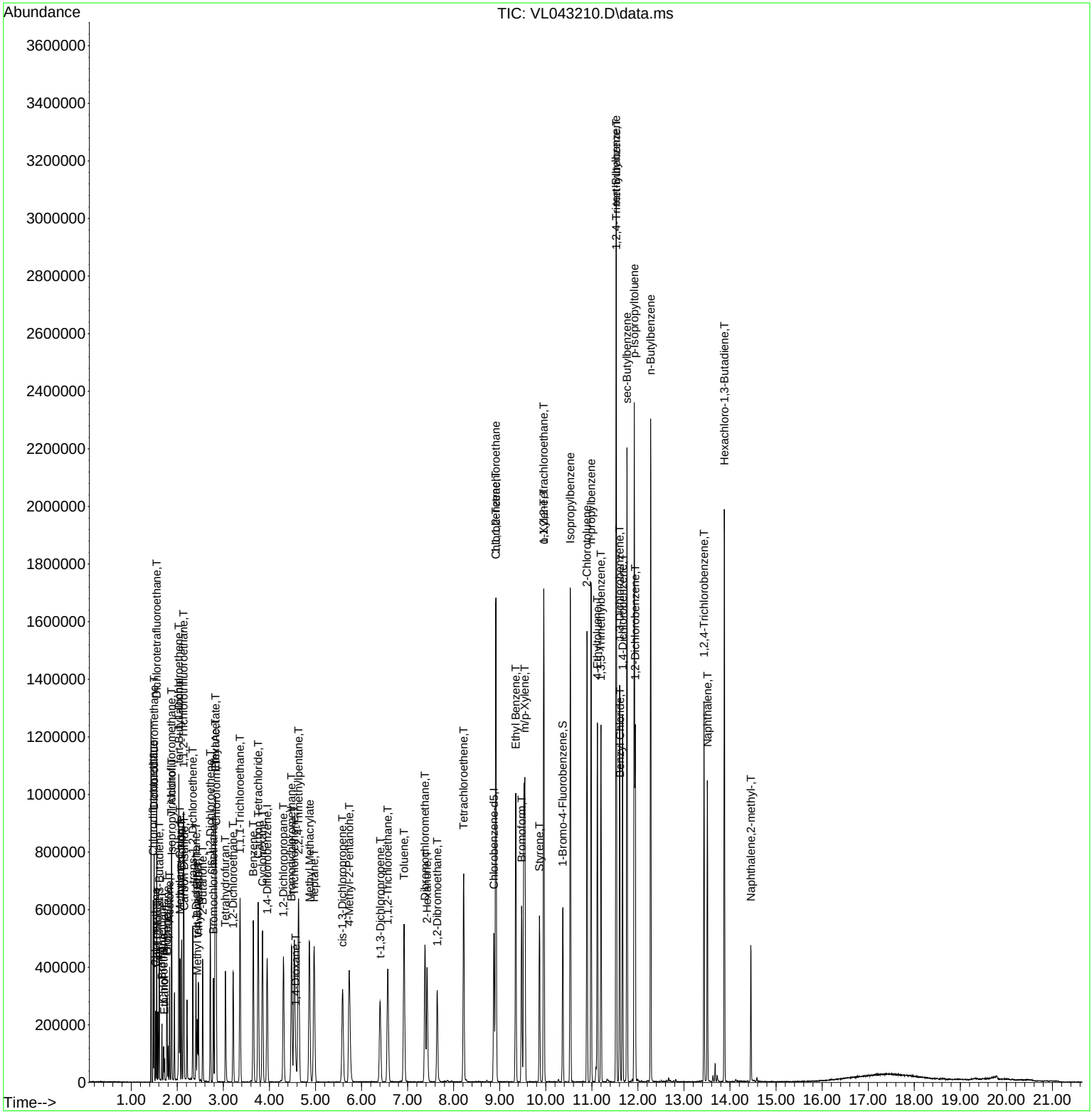
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	205226	14.270	ppbv		100
47) 1,1,2-Trichloroethane	6.571	97	132701	13.738	ppbv		92
48) Dibromochloromethane	7.377	129	240736	14.564	ppbv		99
49) Bromoform	9.477	173	211325	14.434	ppbv		99
50) 4-Methyl-2-Pentanone	5.732	43	354421	13.790	ppbv		99
51) 2-Hexanone	7.422	43	280742	14.067	ppbv	#	100
52) Tetrachloroethene	8.218	164	125132	13.591	ppbv		93
53) Toluene	6.924	91	414411	14.050	ppbv		99
54) 1,2-Dibromoethane	7.642	107	203913	14.413	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.917	131	214673	13.827	ppbv		99
57) Chlorobenzene	8.914	112	301986	13.923	ppbv		98
58) Ethyl Benzene	9.348	91	579890	14.262	ppbv		99
59) m/p-Xylene	9.545	91	423995	12.959	ppbv	#	20
60) o-Xylene	9.956	91	450260	13.826	ppbv		99
61) Styrene	9.862	104	204972	14.382	ppbv		99
62) Isopropylbenzene	10.532	105	803487	13.791	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	280254	13.557	ppbv		99
64) n-propylbenzene	10.986	120	205637	13.737	ppbv		100
65) tert-Butylbenzene	11.526	119	689352	13.249	ppbv		98
66) Benzyl Chloride	11.610	91	71386	13.520	ppbv		100
67) sec-Butylbenzene	11.762	105	972780	13.394	ppbv		100
69) p-Isopropyltoluene	11.921	119	836888	13.602	ppbv		99
70) n-Butylbenzene	12.277	91	838598	14.050	ppbv		99
71) 2-Chlorotoluene	10.895	91	625884	13.976	ppbv		100
72) 4-Ethyltoluene	11.121	105	553654	13.961	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	460783	13.846	ppbv		97
74) 1,2,4-Trimethylbenzene	11.533	105	486995	13.409	ppbv		97
75) 1,3-Dichlorobenzene	11.604	146	292143	13.784	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	294723	13.903	ppbv		99
77) 1,2-Dichlorobenzene	11.944	146	273467	13.420	ppbv		98
78) Hexachloro-1,3-Butadiene	13.876	225	211153	12.416	ppbv		99
79) Naphthalene	13.510	128	473229	14.670	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	139019	16.418	ppbv		99
81) 1,2,4-Trichlorobenzene	13.436	180	216260	14.990	ppbv		99

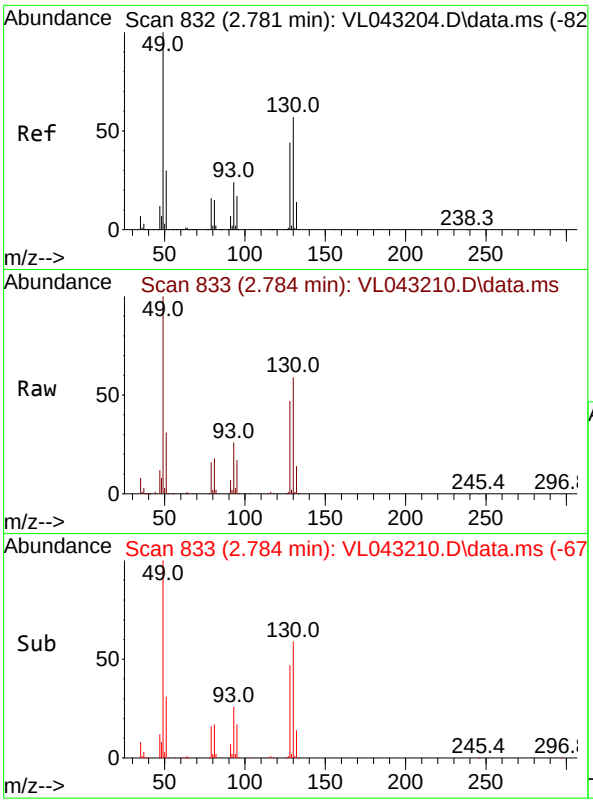
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043210.D
Acq On : 18 Nov 2025 13:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration



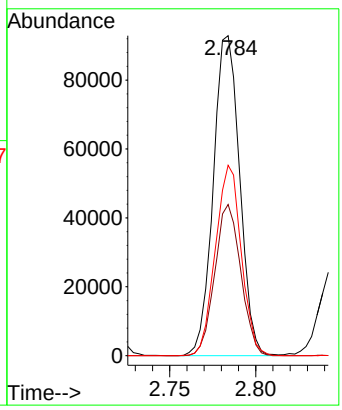


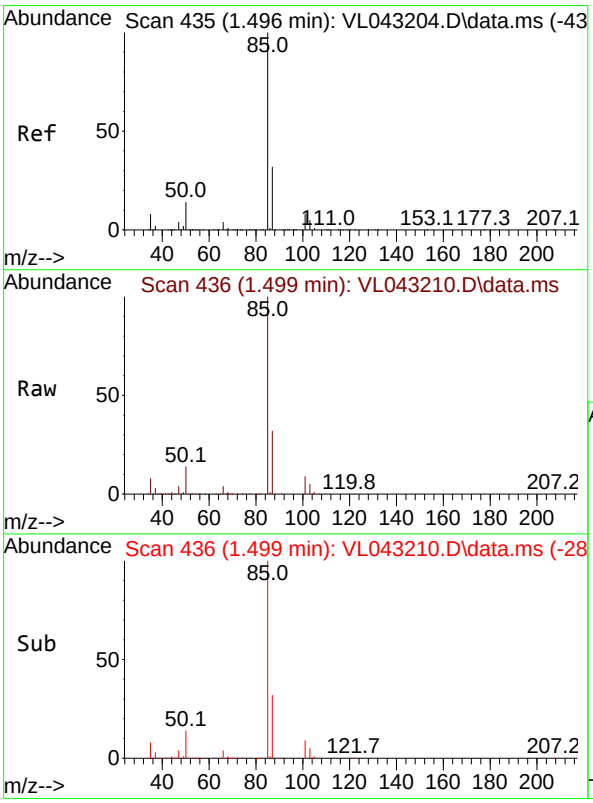
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 49 Resp: 98968

Ion	Ratio	Lower	Upper
49	100		
128	46.7	23.0	69.0
130	58.4	29.9	89.7

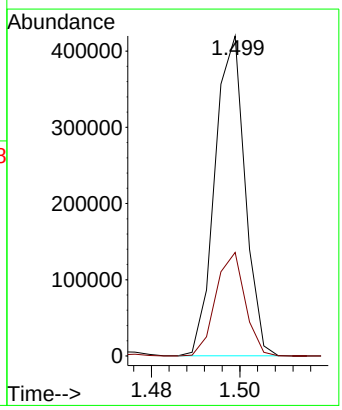


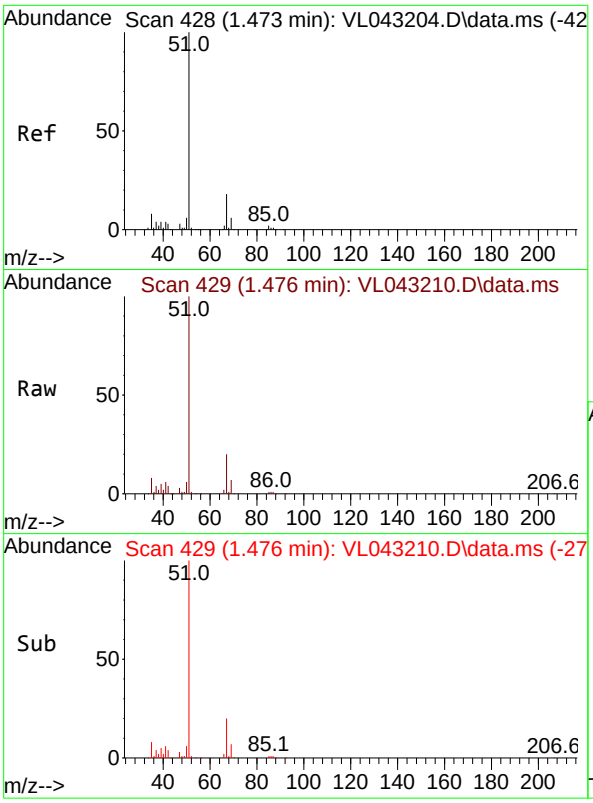


#2
Dichlorodifluoromethane
Concen: 14.184 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 85 Resp: 197987

Ion	Ratio	Lower	Upper
85	100		
87	32.4	25.4	38.2



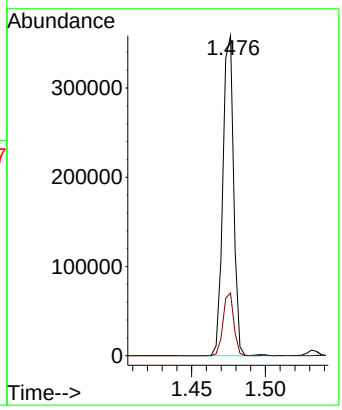


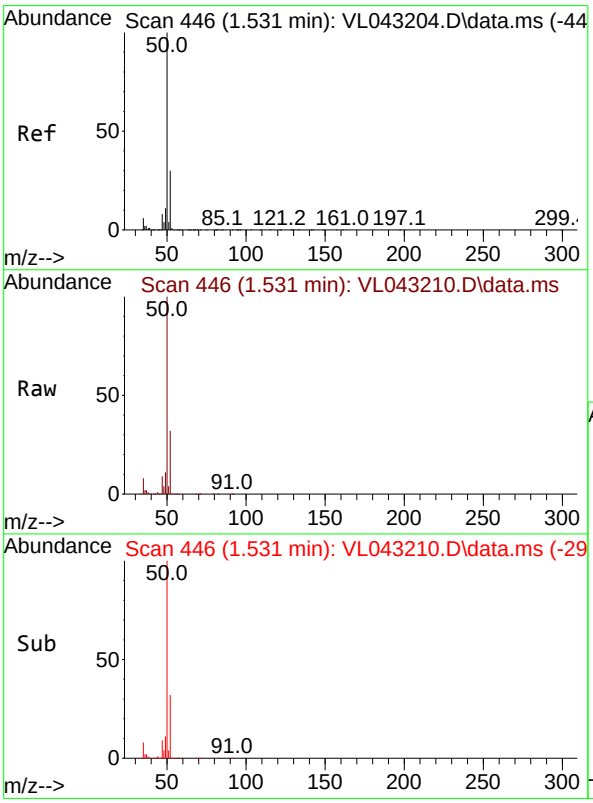
#3
Chlorodifluoromethane
Concen: 13.317 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 182813

Ion	Ratio	Lower	Upper
51	100		
67	19.7	14.9	22.3

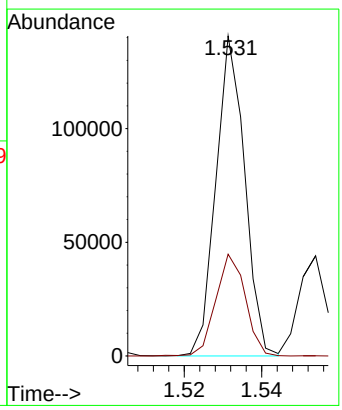


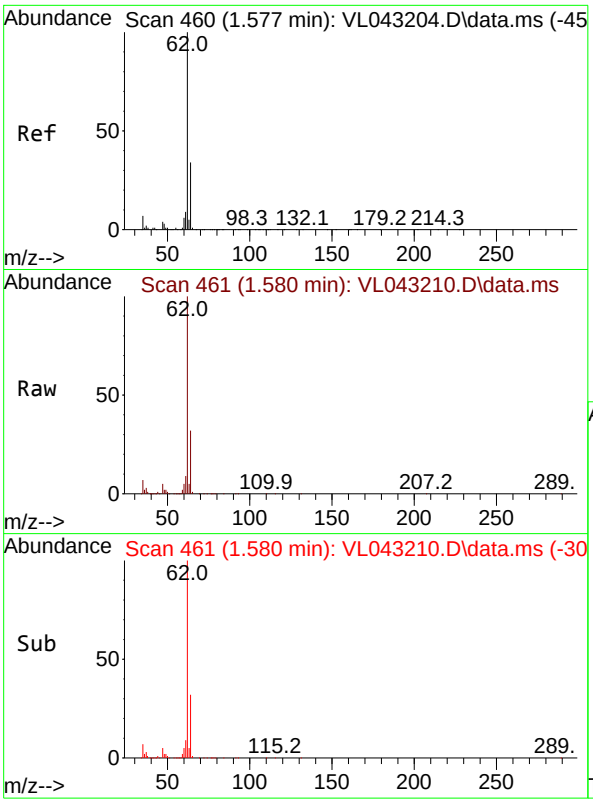


#4
Chloromethane
Concen: 13.918 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 50 Resp: 72636

Ion	Ratio	Lower	Upper
50	100		
52	31.7	24.1	36.1



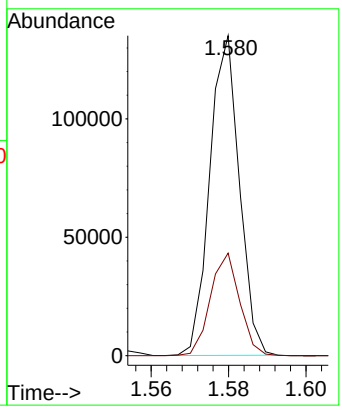


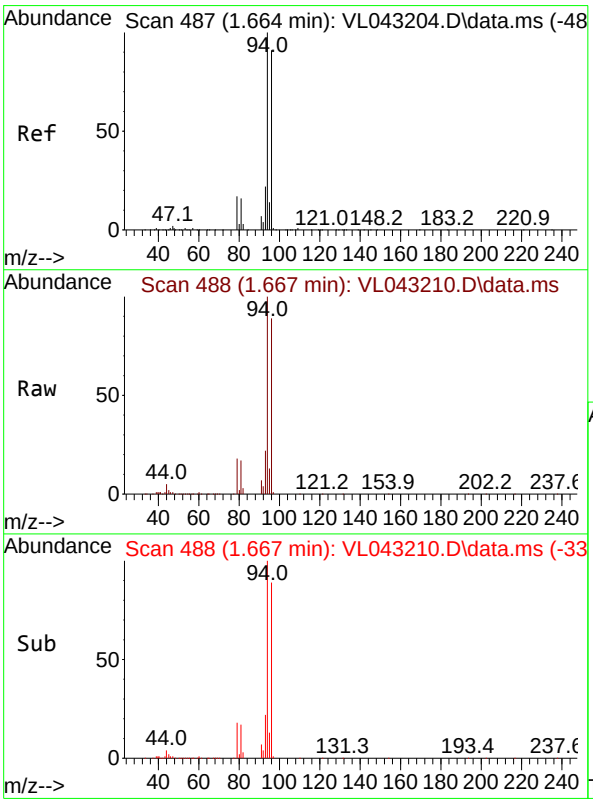
#5
Vinyl Chloride
Concen: 12.557 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 71671

Ion	Ratio	Lower	Upper
62	100		
64	32.0	27.3	40.9

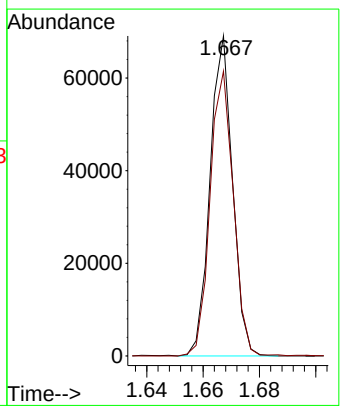


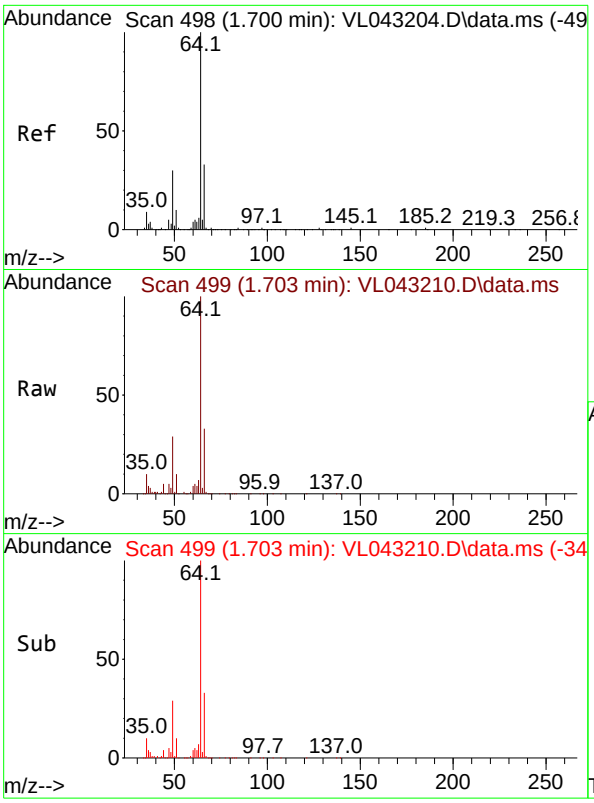


#6
Bromomethane
Concen: 13.830 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 94 Resp: 38265

Ion	Ratio	Lower	Upper
94	100		
96	89.0	72.9	109.3



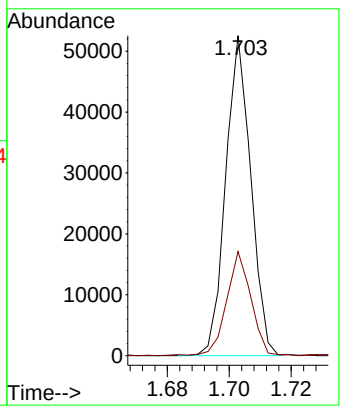


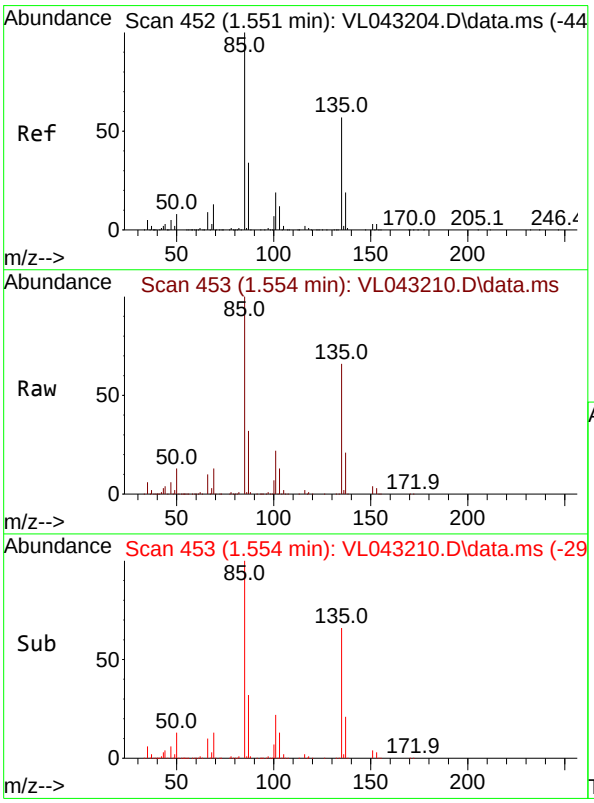
#7
Chloroethane
Concen: 13.309 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 64 Resp: 29584

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.8	40.2

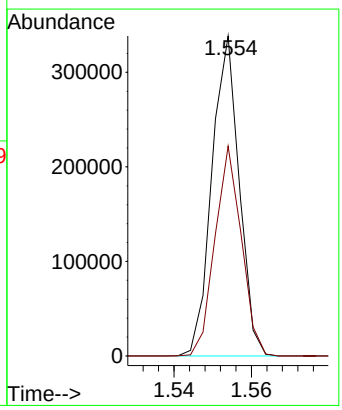


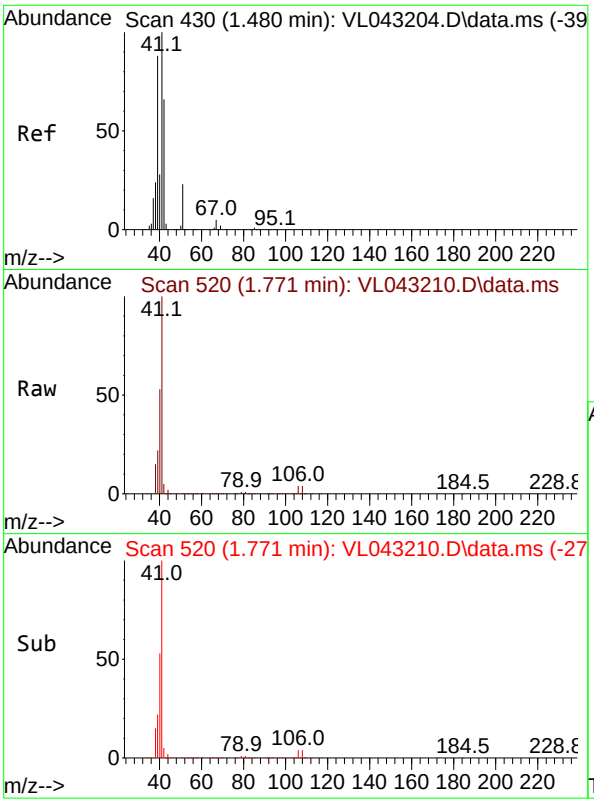


#8
Dichlorotetrafluoroethane
Concen: 14.271 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 85 Resp: 165709

Ion	Ratio	Lower	Upper
85	100		
135	63.7	52.6	79.0



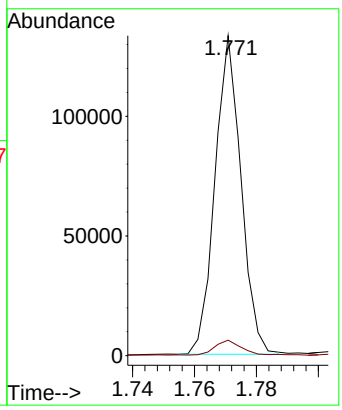


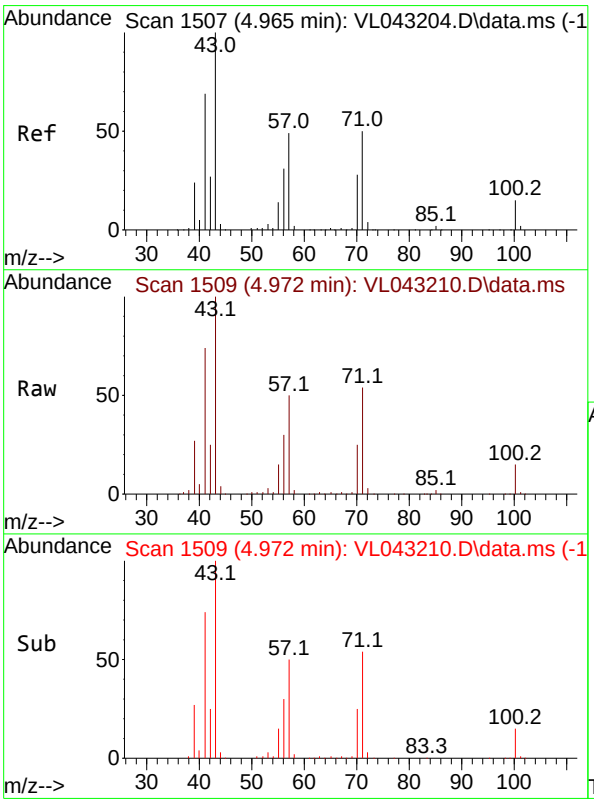
#9
Propene
Concen: 12.212 ppbv
RT: 1.771 min Scan# 5
Delta R.T. 0.291 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 77762

Ion	Ratio	Lower	Upper
41	100		
42	5.1	3.7	5.5

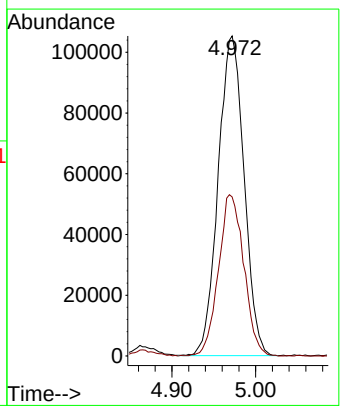


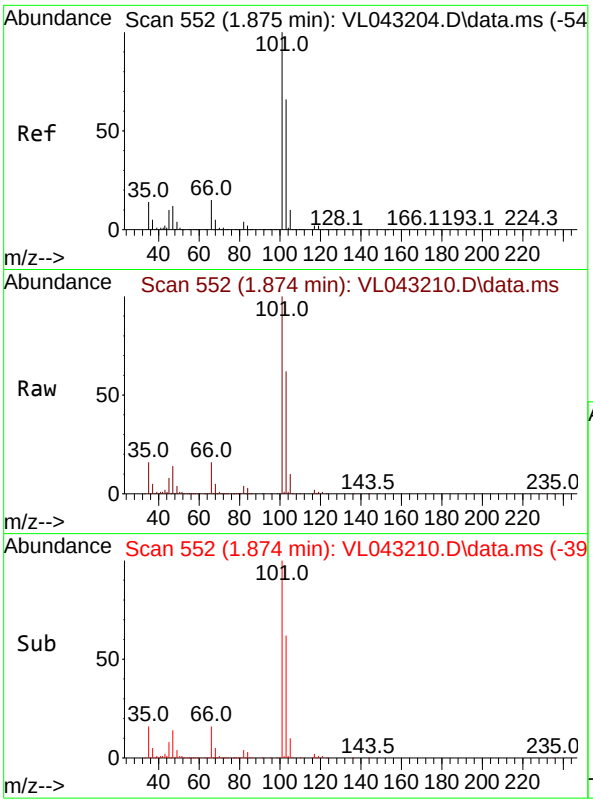


#10
Heptane
Concen: 12.934 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 225935

Ion	Ratio	Lower	Upper
43	100		
57	49.4	39.7	59.5



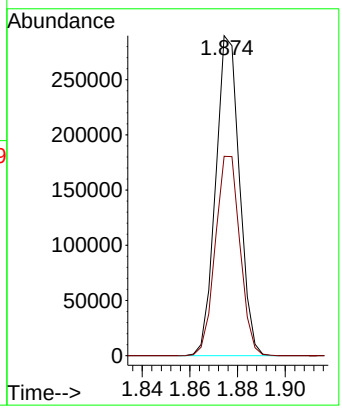


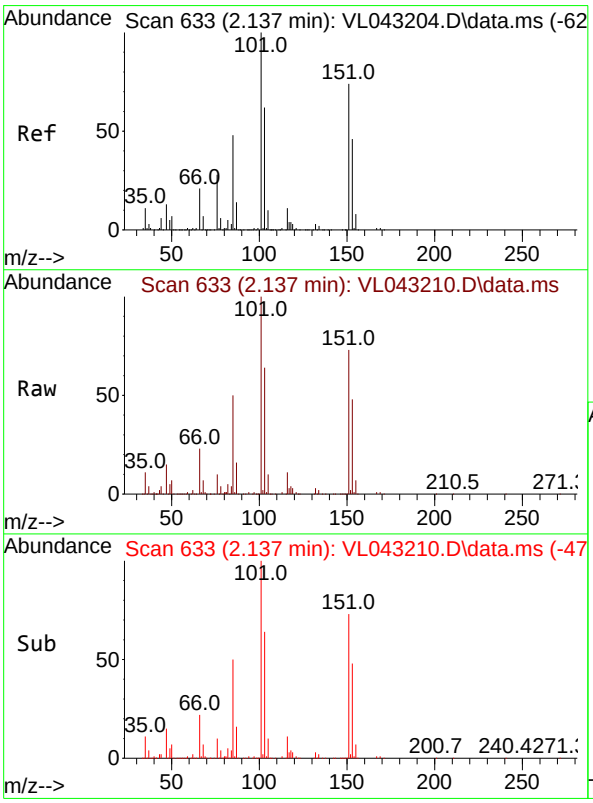
#11
Trichlorofluoromethane
Concen: 14.840 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:101 Resp: 200703

Ion	Ratio	Lower	Upper
101	100		
103	62.3	52.6	79.0

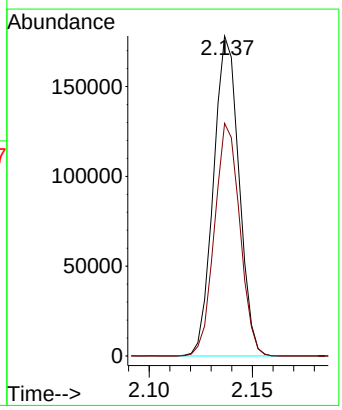


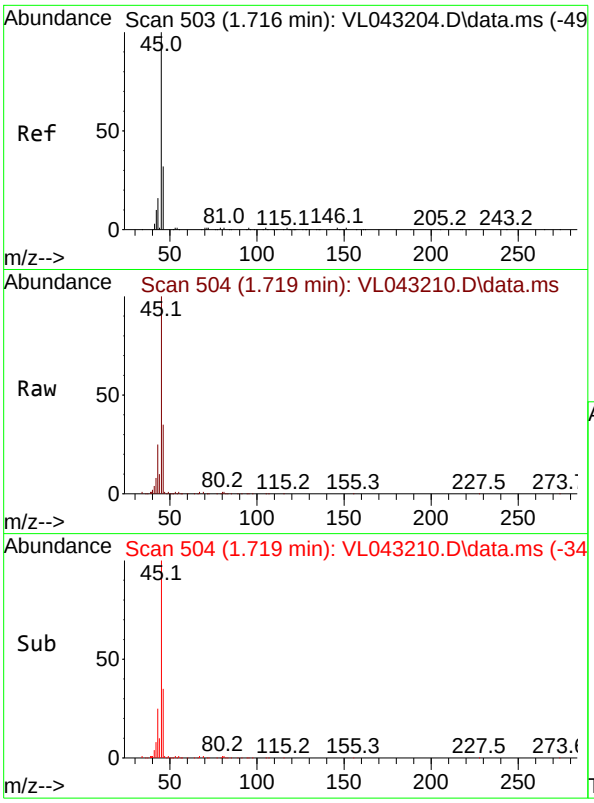


#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.469 ppbv
RT: 2.137 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:101 Resp: 152772

Ion	Ratio	Lower	Upper
101	100		
151	72.3	59.2	88.8



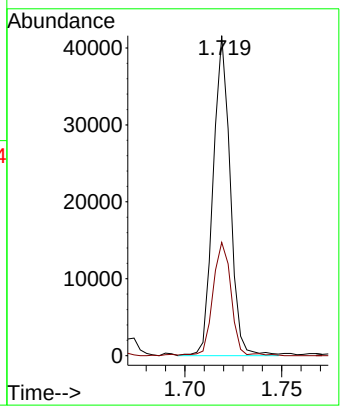


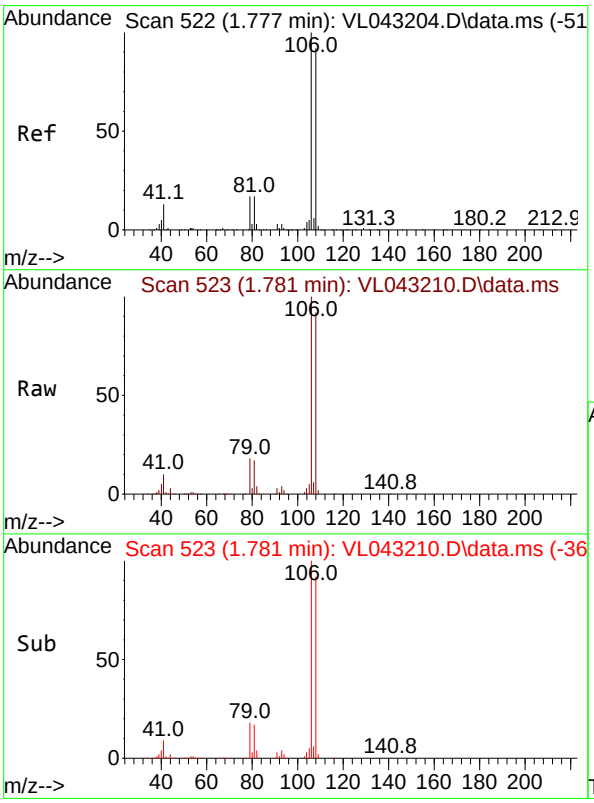
#13
Ethanol
Concen: 12.425 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 25468

Ion	Ratio	Lower	Upper
45	100		
46	37.9	15.0	59.8

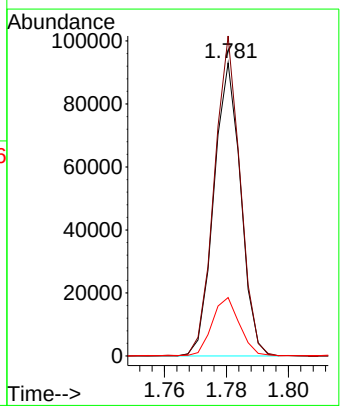


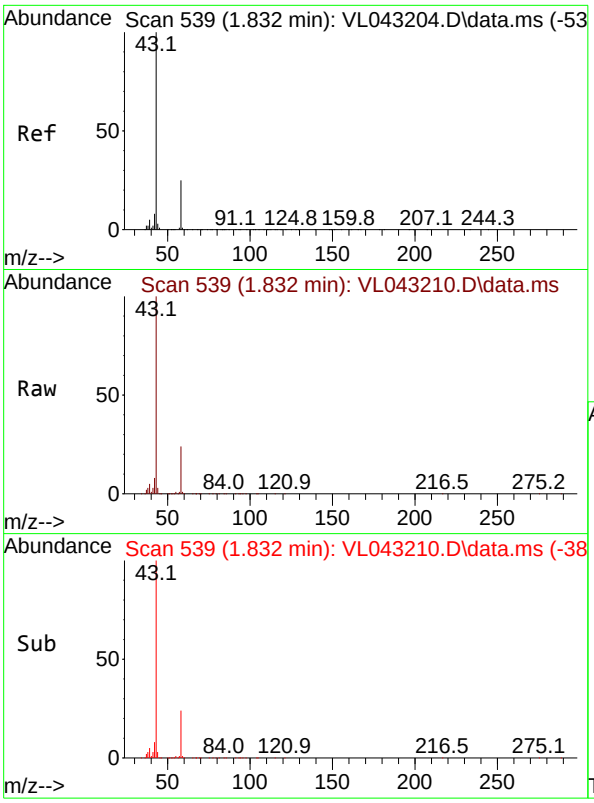


#14
Bromoethene
Concen: 13.789 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:108 Resp: 55813

Ion	Ratio	Lower	Upper
108	100		
106	105.8	88.9	133.3
79	20.6	16.5	24.7



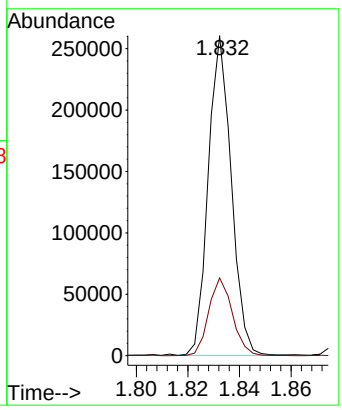


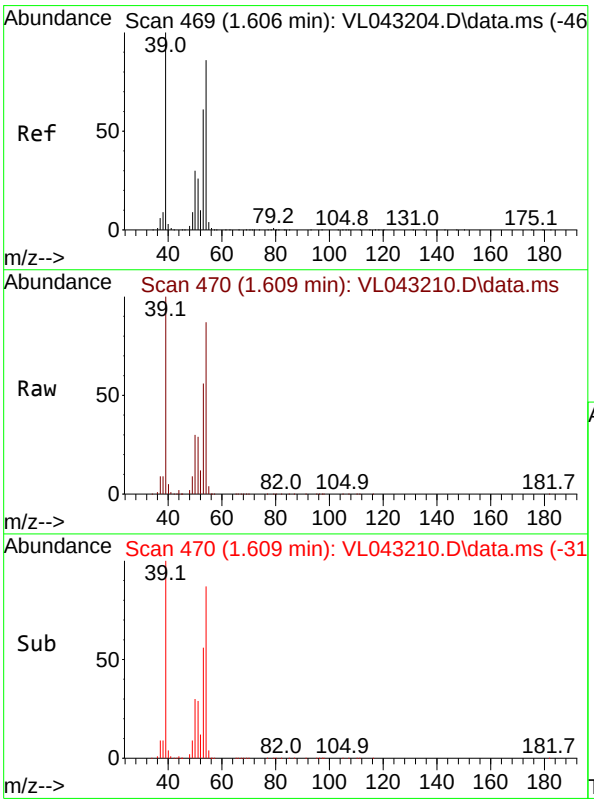
#15
Acetone
Concen: 11.712 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 161036

Ion	Ratio	Lower	Upper
43	100		
58	25.1	20.7	31.1

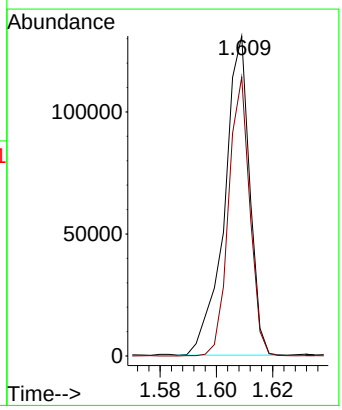


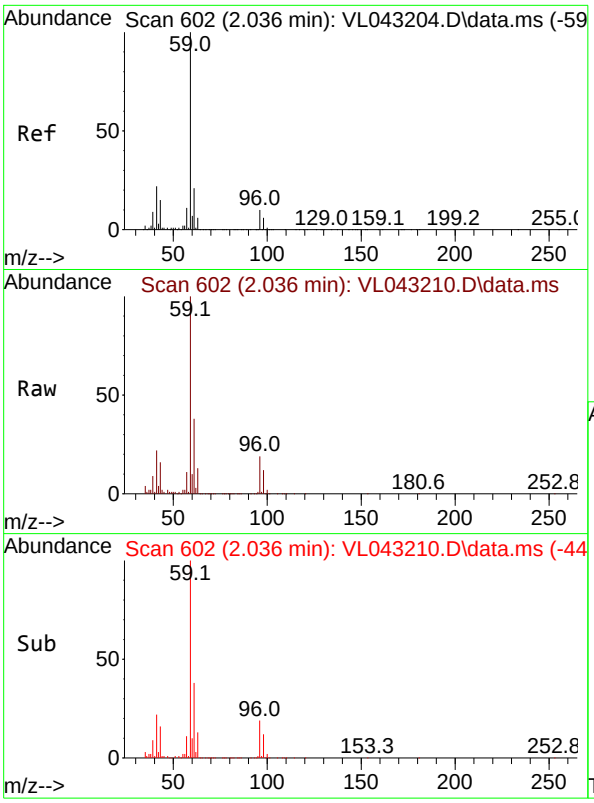


#16
1,3-Butadiene
Concen: 13.226 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 39 Resp: 81077

Ion	Ratio	Lower	Upper
39	100		
54	73.5	59.4	89.2



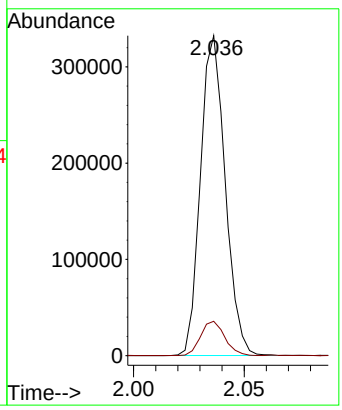


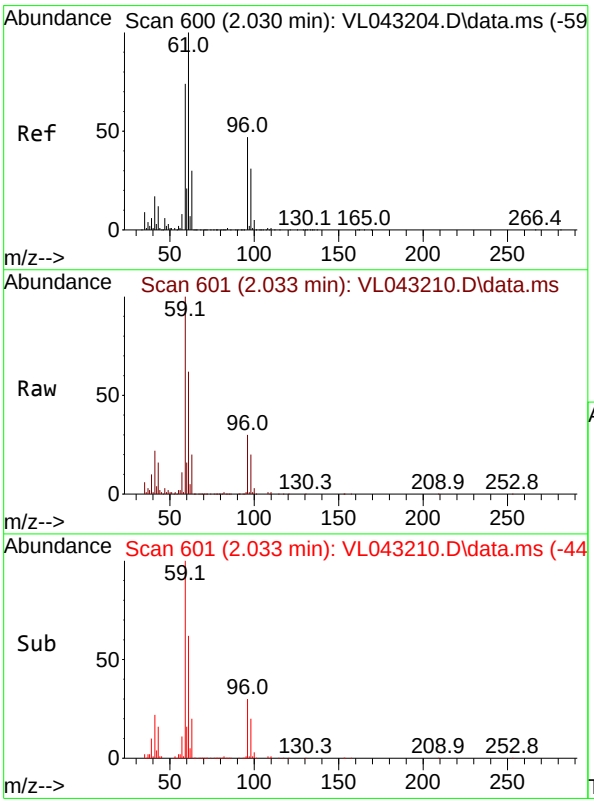
#17
tert-Butyl alcohol
Concen: 14.274 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 59 Resp: 257617

Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.0	13.4

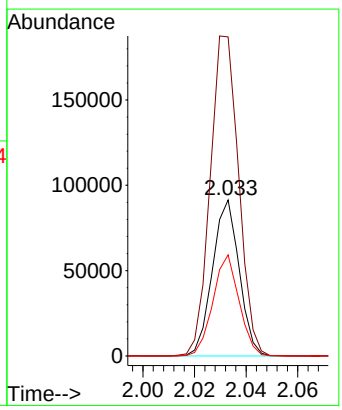


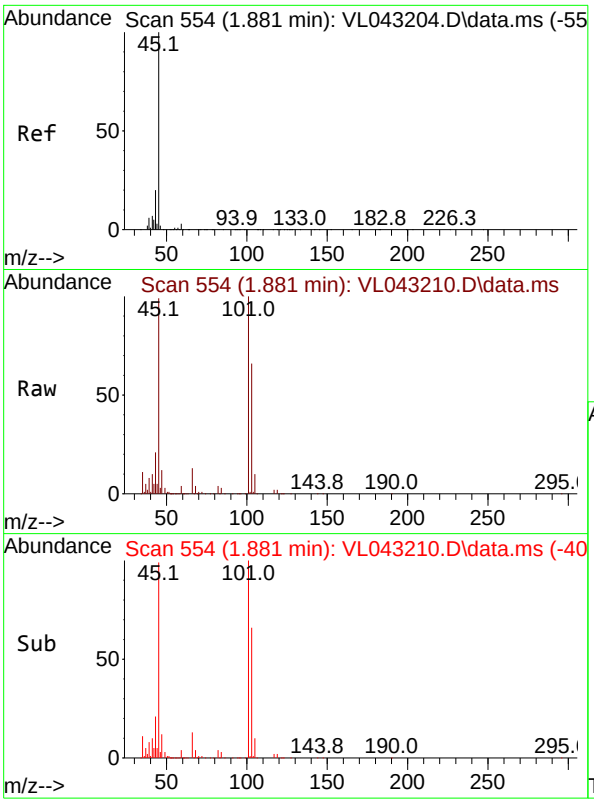


#18
1,1-Dichloroethene
Concen: 13.370 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 96 Resp: 65731

Ion	Ratio	Lower	Upper
96	100		
61	204.3	170.6	255.8
98	64.7	52.2	78.4



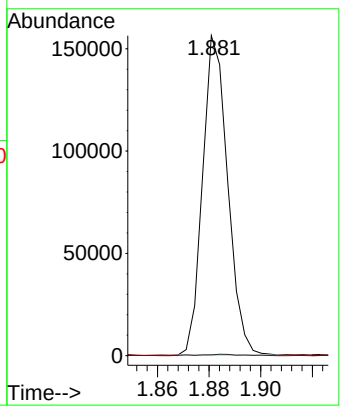


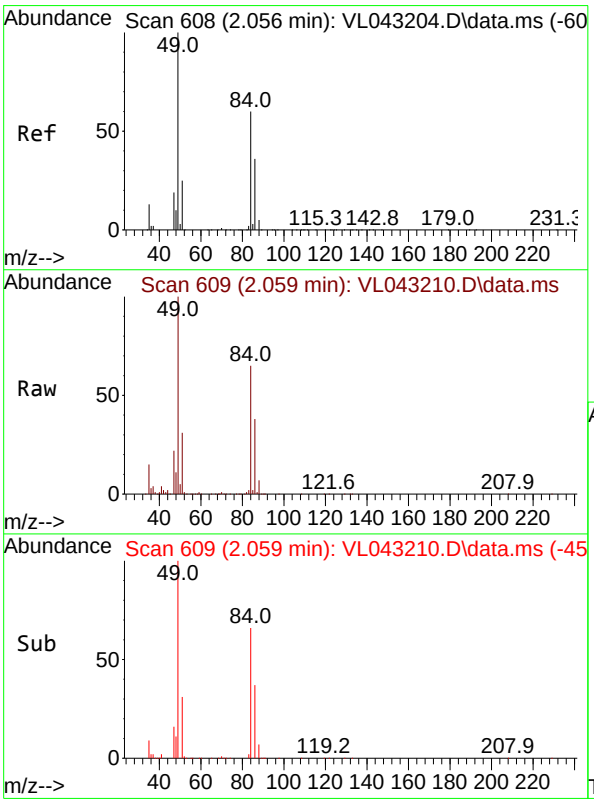
#19
Isopropyl Alcohol
Concen: 13.549 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 105271

Ion	Ratio	Lower	Upper
45	100		
58	38.5	31.3	46.9

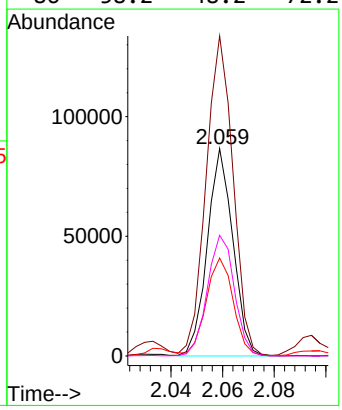


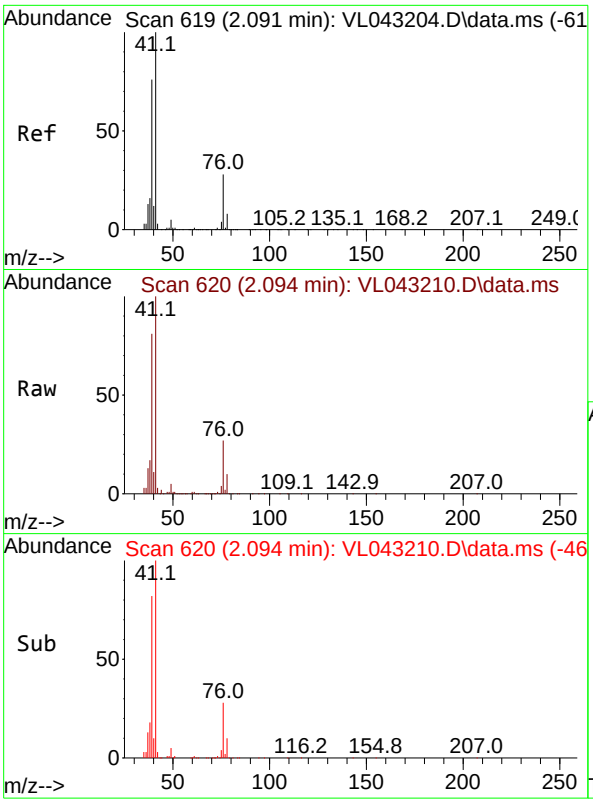


#20
Methylene Chloride
Concen: 15.164 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 84 Resp: 59798

Ion	Ratio	Lower	Upper
84	100		
49	153.8	132.9	199.3
51	47.0	34.8	52.2
86	58.2	48.2	72.2



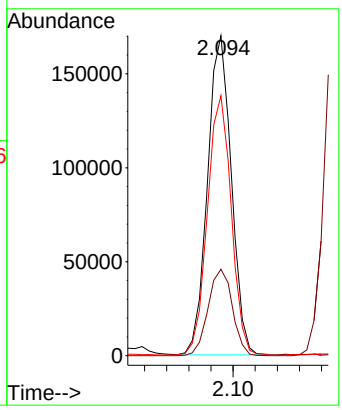


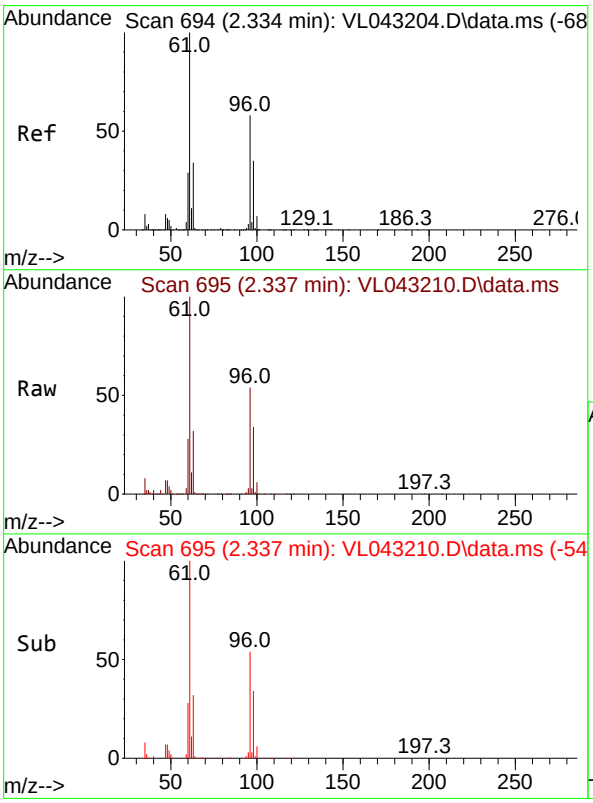
#21
Allyl Chloride
Concen: 13.724 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 126959

Ion	Ratio	Lower	Upper
41	100		
76	27.5	22.1	33.1
39	81.3	61.0	91.4

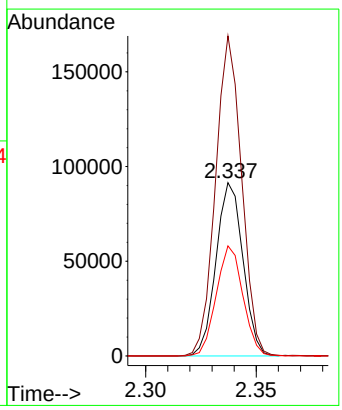


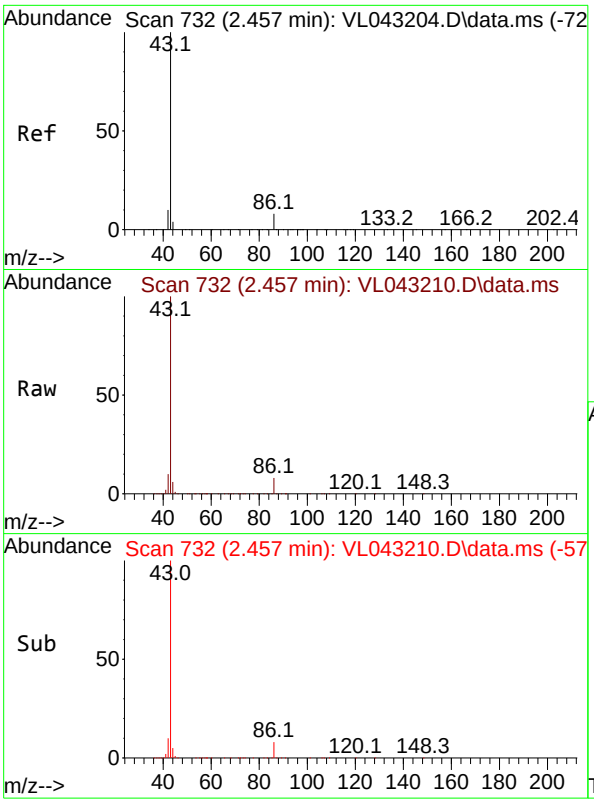


#22
trans-1,2-Dichloroethene
Concen: 13.772 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 96 Resp: 77386

Ion	Ratio	Lower	Upper
96	100		
61	184.6	139.0	208.6
98	63.5	49.4	74.2



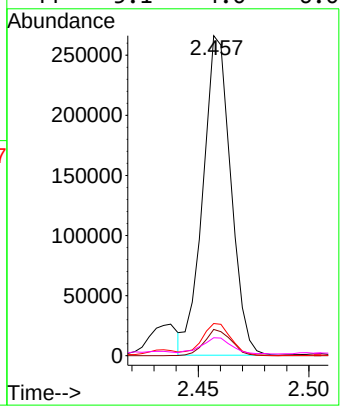


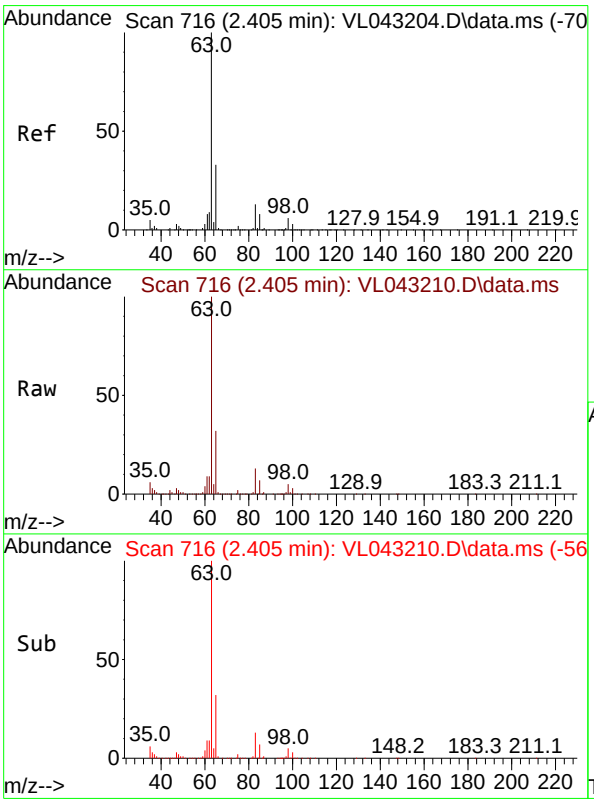
#23
Vinyl Acetate
Concen: 13.995 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 232315

Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.2	9.2
42	10.1	8.0	12.0
44	5.1	4.0	6.0

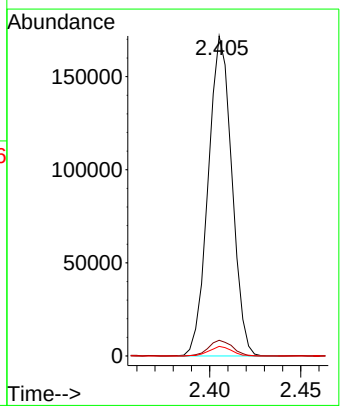


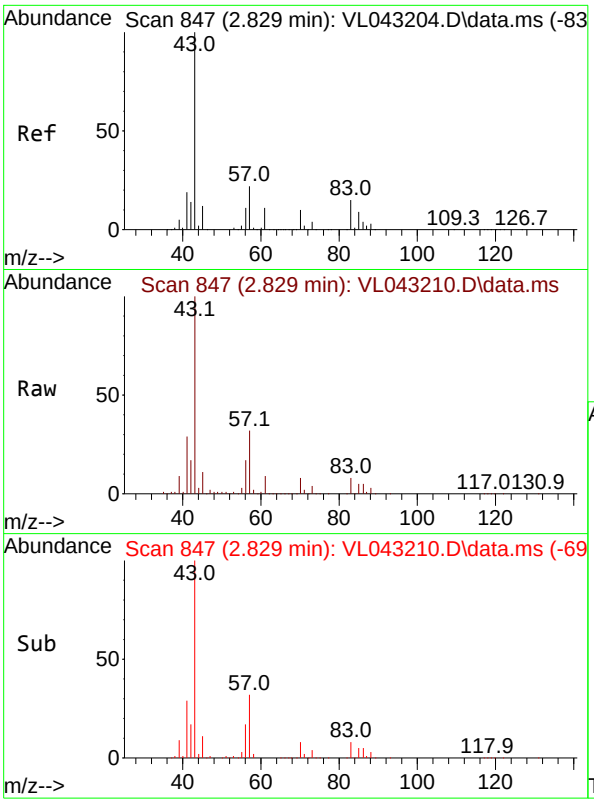


#24
1,1-Dichloroethane
Concen: 14.292 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 63 Resp: 155017

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.8	8.4
100	3.0	1.3	3.9



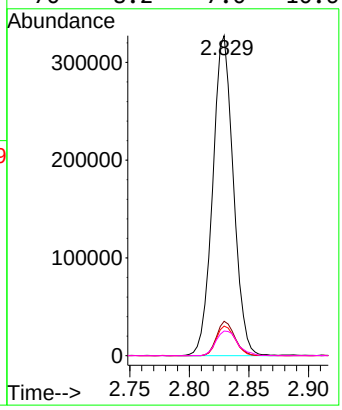


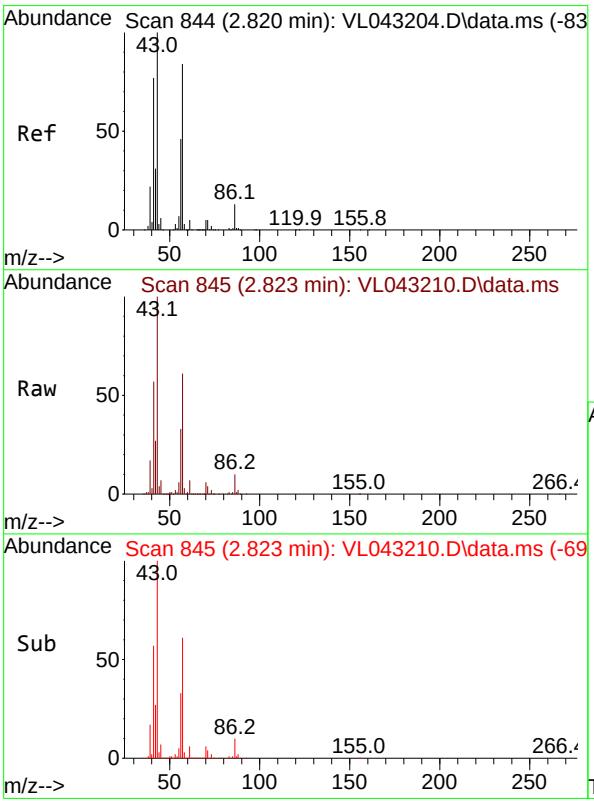
#25
Ethyl Acetate
Concen: 13.265 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 394074

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	8.4	7.0	10.4
70	8.2	7.0	10.6

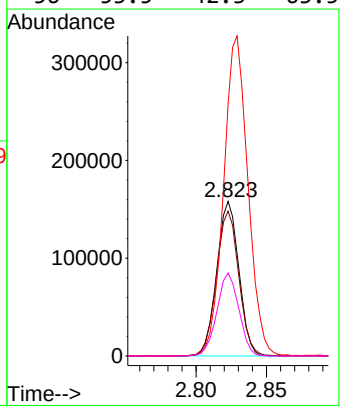


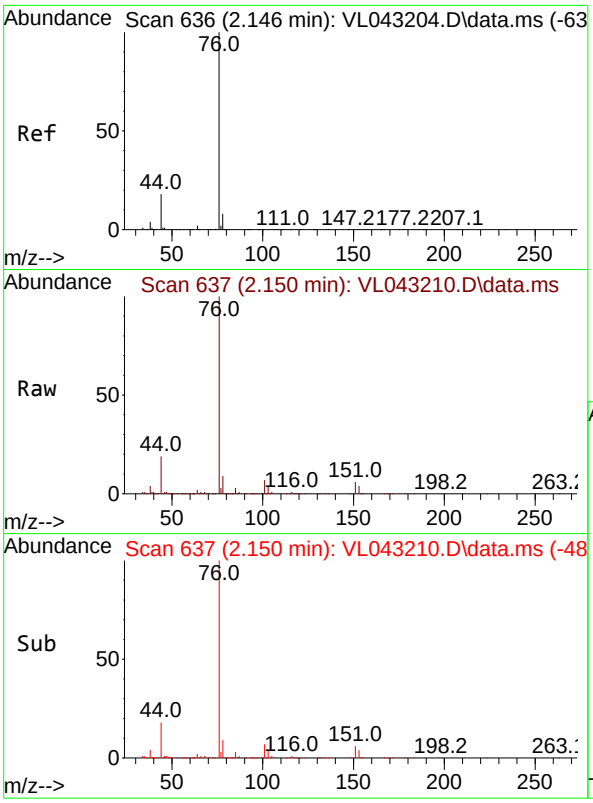


#26
Hexane
Concen: 13.252 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 57 Resp: 172303

Ion	Ratio	Lower	Upper
57	100		
41	95.4	74.6	111.8
43	229.0	179.0	268.4
56	53.5	42.3	63.5



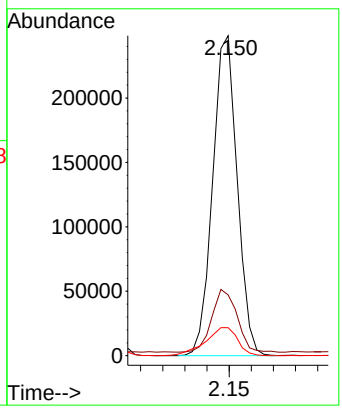


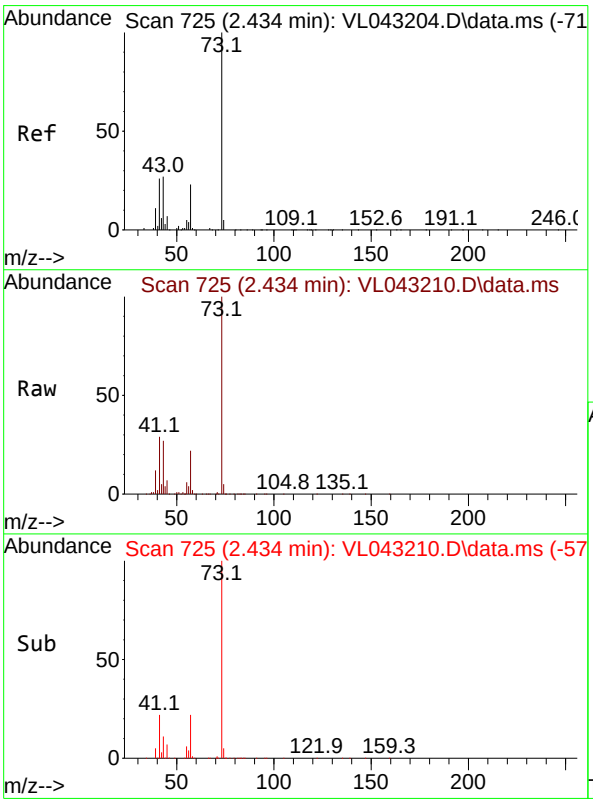
#27
Carbon Disulfide
Concen: 14.435 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 76 Resp: 191612

Ion	Ratio	Lower	Upper
76	100		
44	22.2	16.1	24.1
78	11.5	9.6	14.4

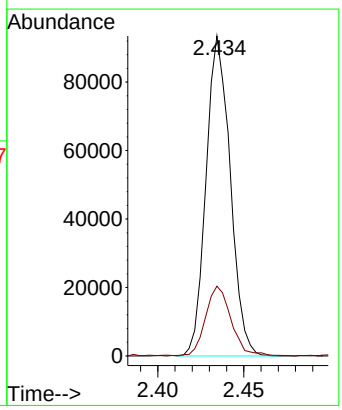


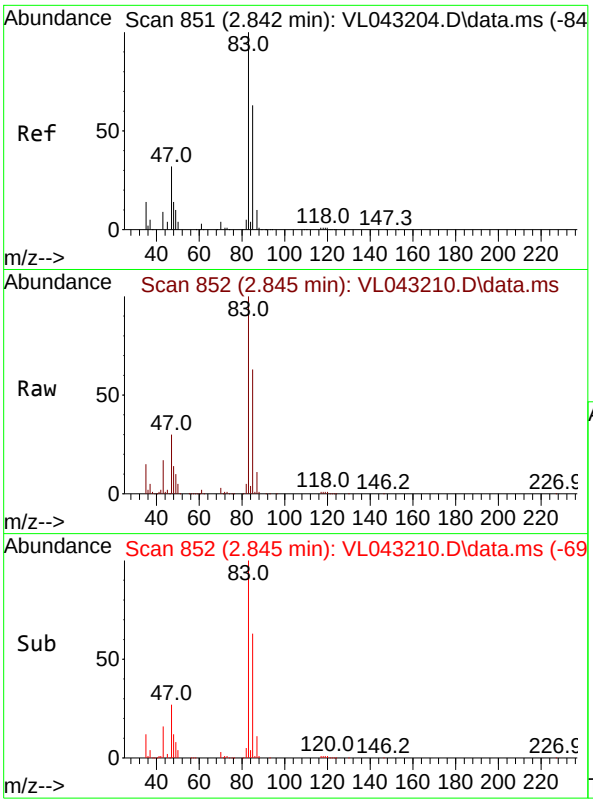


#28
Methyl tert-Butyl Ether
Concen: 14.279 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 73 Resp: 91132

Ion	Ratio	Lower	Upper
73	100		
57	23.5	19.8	29.8



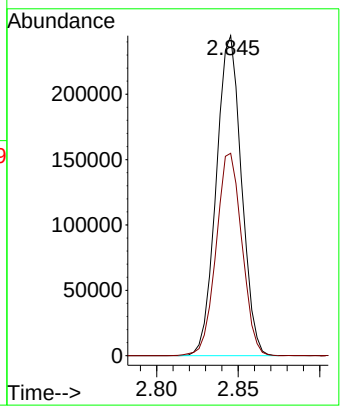


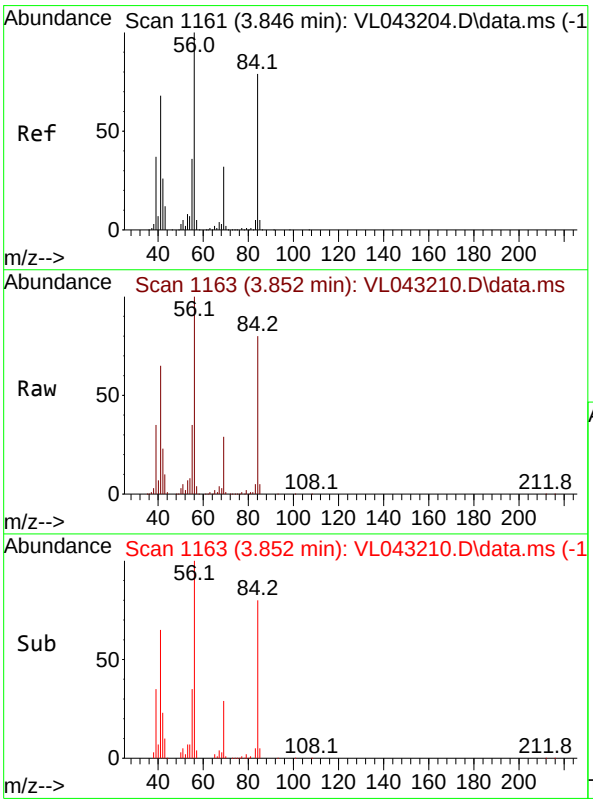
#29
Chloroform
Concen: 14.221 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 262803

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.5	75.7

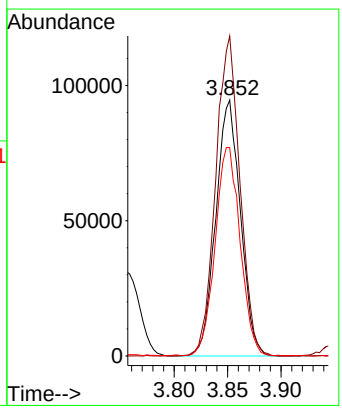


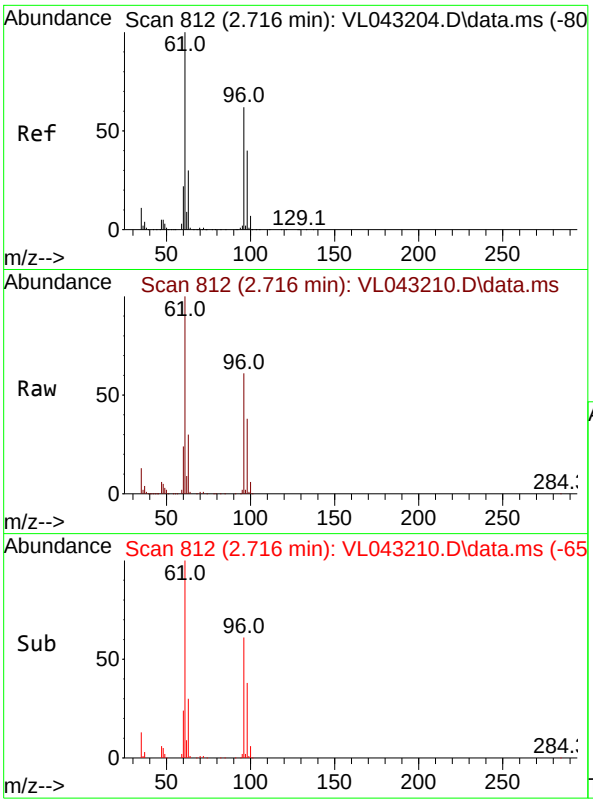


#30
Cyclohexane
Concen: 13.946 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 84 Resp: 152015

Ion	Ratio	Lower	Upper
84	100		
56	123.0	104.7	157.1
41	82.7	69.0	103.6



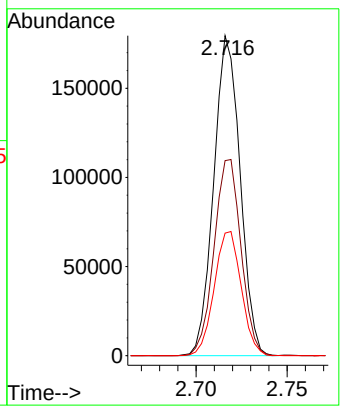


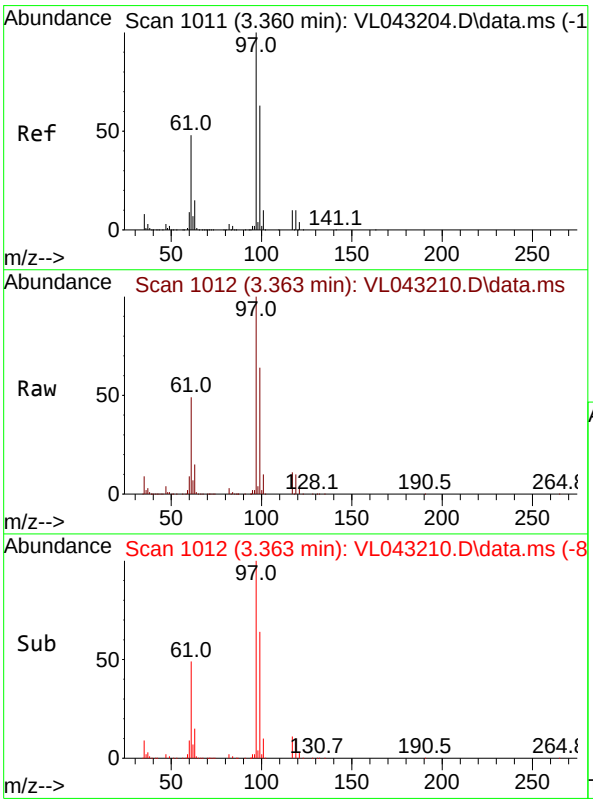
#31
cis-1,2-Dichloroethene
Concen: 13.978 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 61 Resp: 180647

Ion	Ratio	Lower	Upper
61	100		
96	60.9	49.3	73.9
98	38.3	32.1	48.1

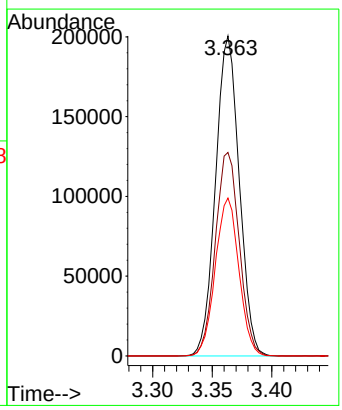


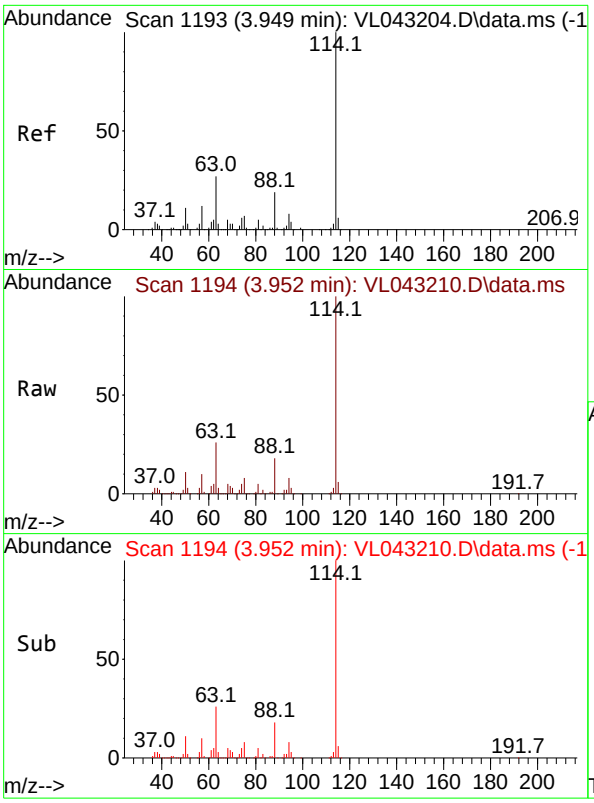


#32
1,1,1-Trichloroethane
Concen: 13.930 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 97 Resp: 276915

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.3	75.5
61	49.3	38.9	58.3



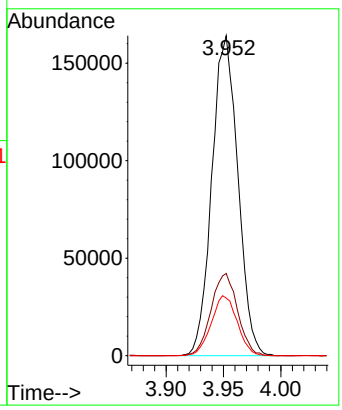


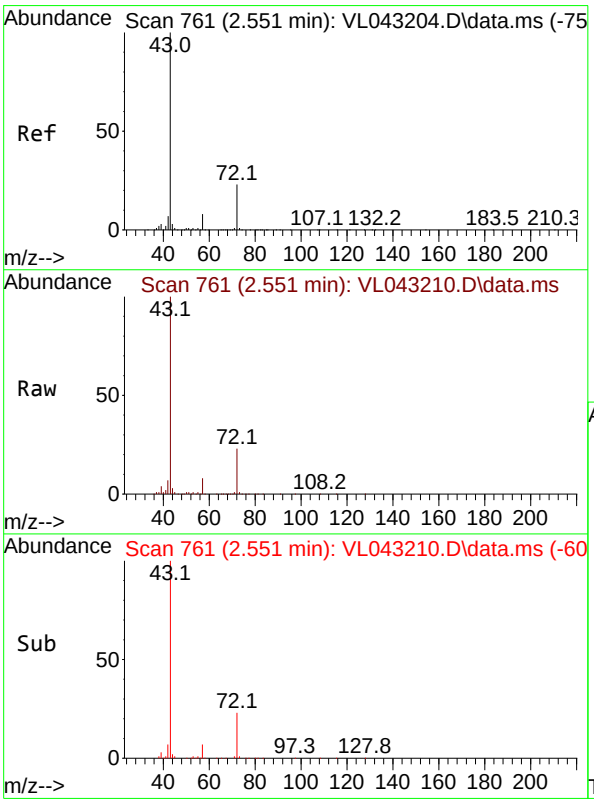
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:114 Resp: 258461

Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.0	31.6
88	18.8	14.9	22.3

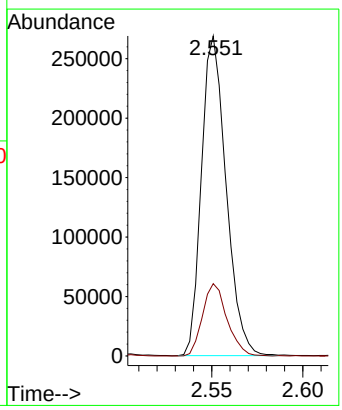


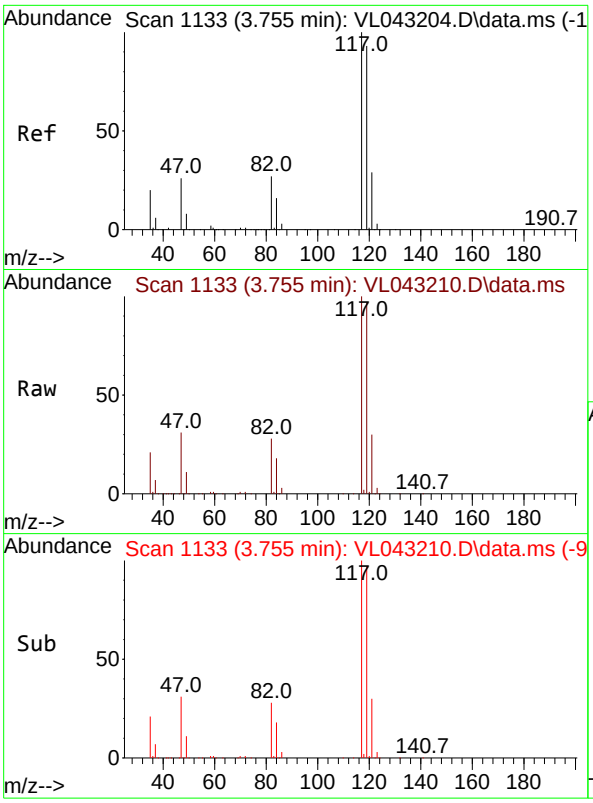


#34
2-Butanone
Concen: 13.914 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 253855

Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.1	27.1



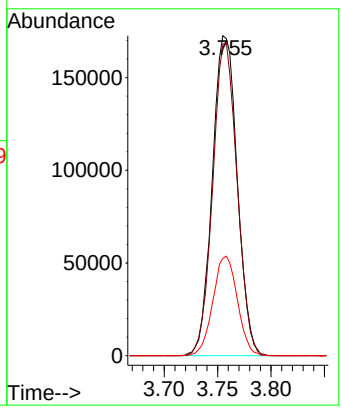


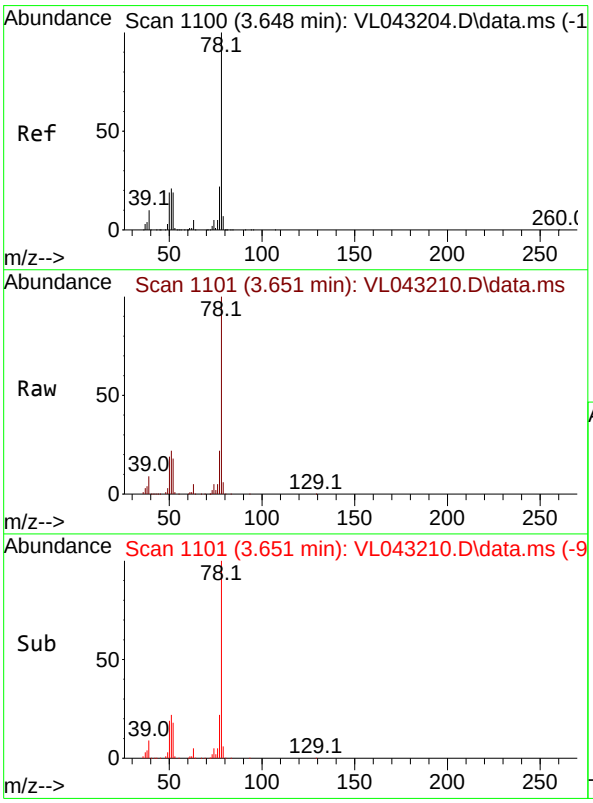
#35
Carbon Tetrachloride
Concen: 14.250 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 279560

Ion	Ratio	Lower	Upper
117	100		
119	97.4	74.6	112.0
121	30.4	23.2	34.8

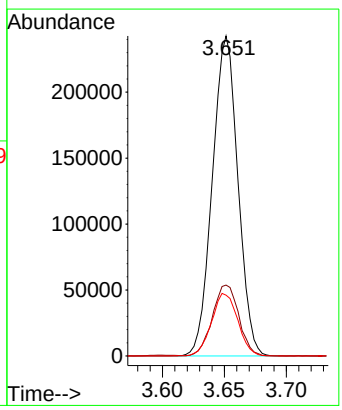


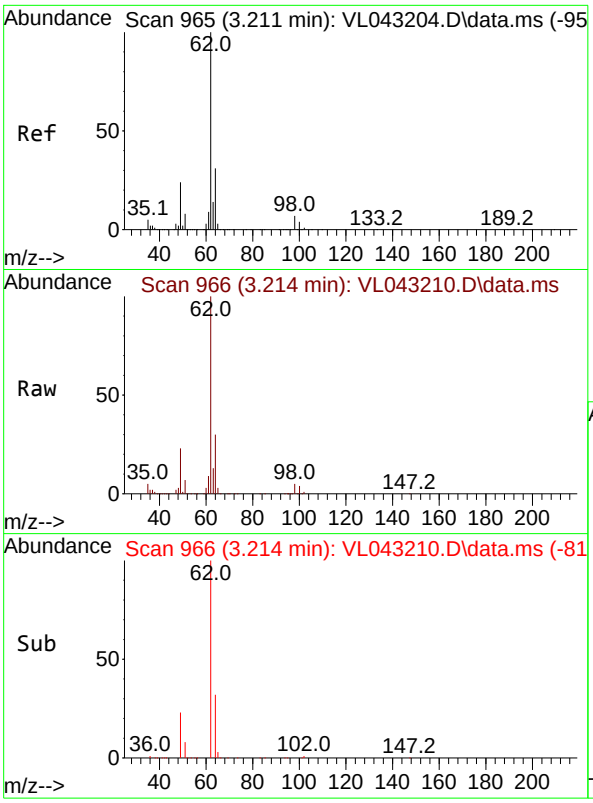


#36
Benzene
Concen: 14.096 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 78 Resp: 348892

Ion	Ratio	Lower	Upper
78	100		
77	22.1	17.5	26.3
50	19.0	15.5	23.3



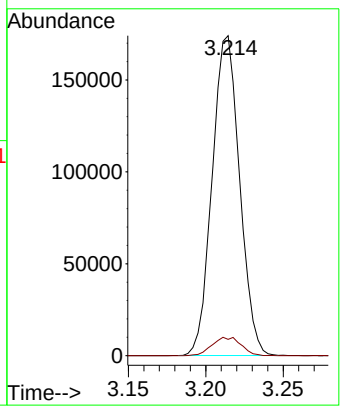


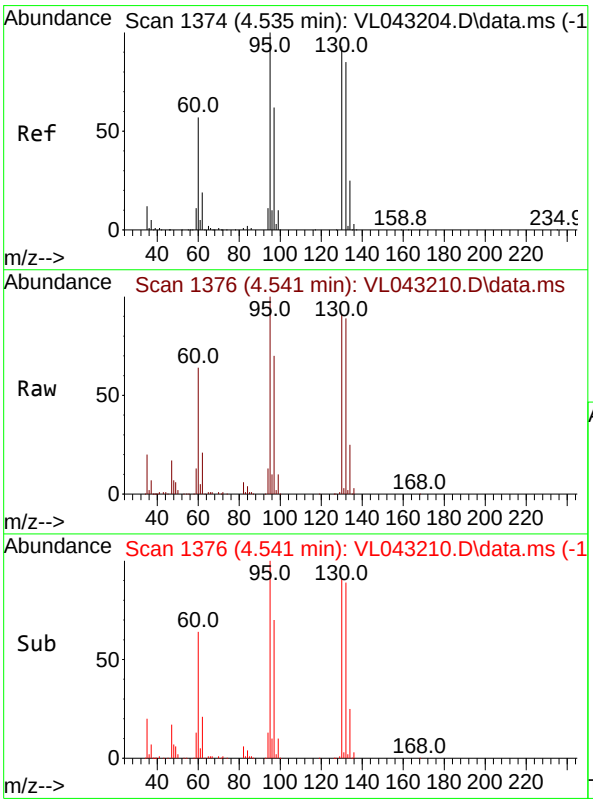
#37
1,2-Dichloroethane
Concen: 14.798 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 214248

Ion	Ratio	Lower	Upper
62	100		
98	6.1	5.5	8.3

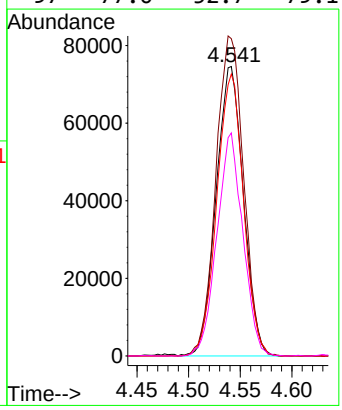


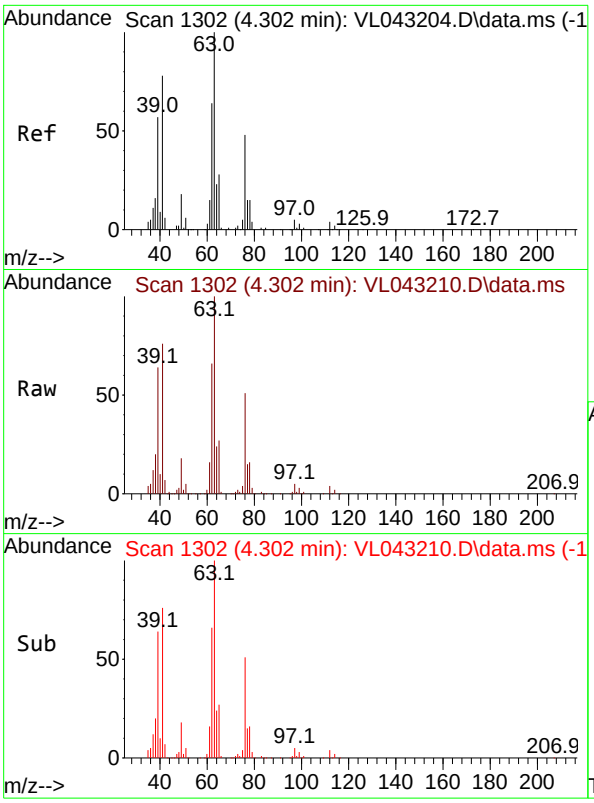


#38
Trichloroethene
Concen: 14.123 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:130 Resp: 137027

Ion	Ratio	Lower	Upper
130	100		
95	109.6	85.7	128.5
132	97.4	73.4	110.0
97	77.0	52.7	79.1



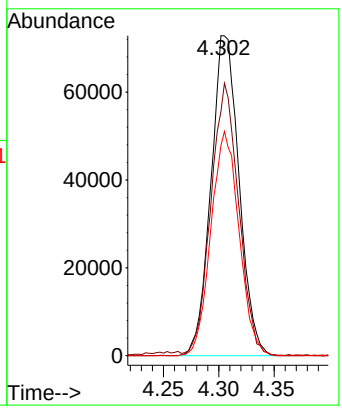


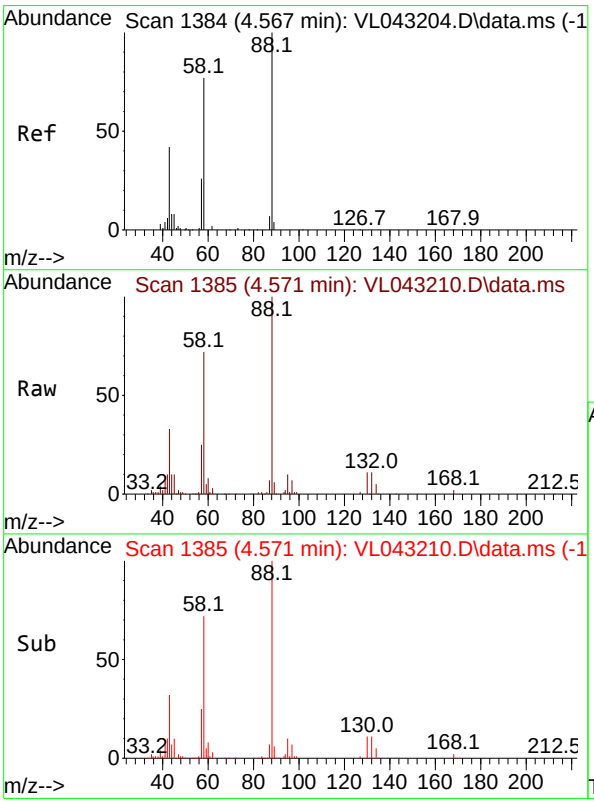
#39
1,2-Dichloropropane
Concen: 14.206 ppbv
RT: 4.302 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 63 Resp: 128700

Ion	Ratio	Lower	Upper
63	100		
41	75.9	62.6	93.8
62	65.6	51.0	76.6

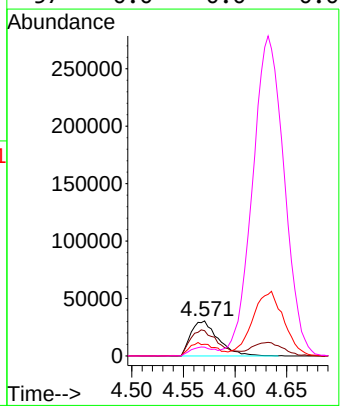


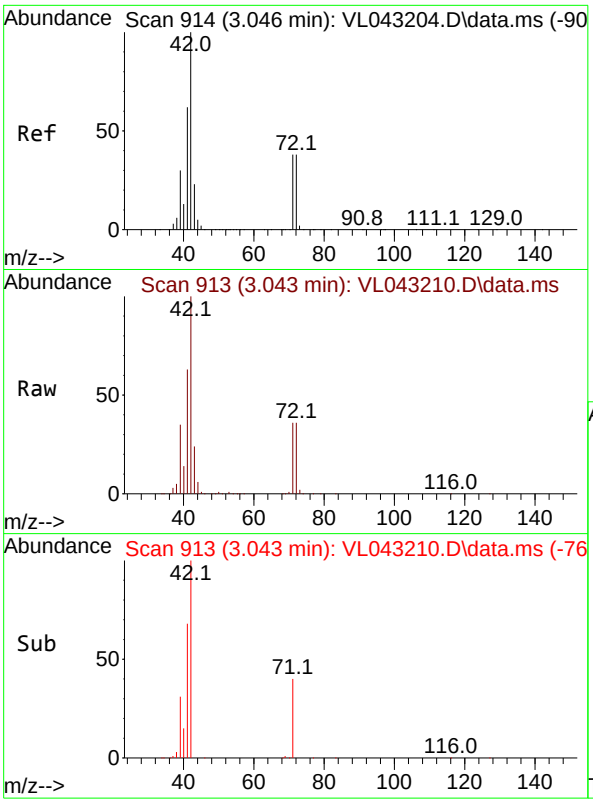


#40
1,4-Dioxane
Concen: 13.728 ppbv
RT: 4.571 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 88 Resp: 55905

Ion	Ratio	Lower	Upper
88	100		
58	76.7	63.0	94.6
43	34.0	32.5	48.7
57	0.0	0.0	0.0



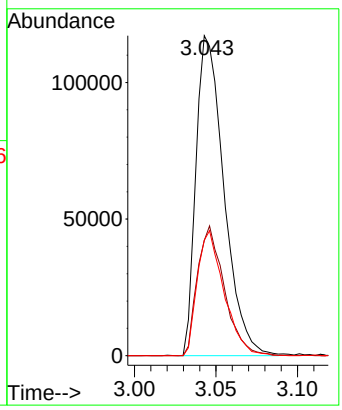


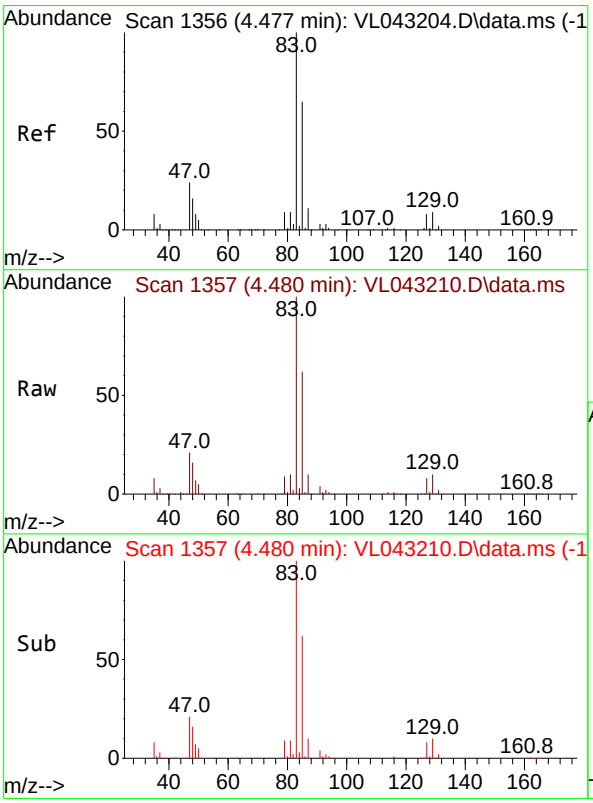
#41
Tetrahydrofuran
Concen: 13.868 ppbv
RT: 3.043 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 42 Resp: 139722

Ion	Ratio	Lower	Upper
42	100		
72	39.1	30.6	46.0
71	37.3	30.5	45.7

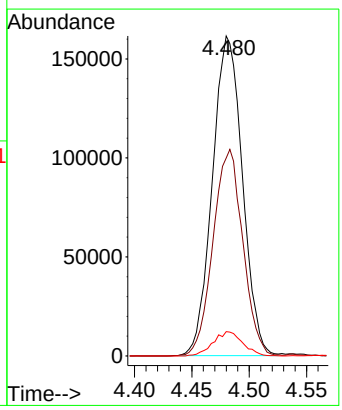


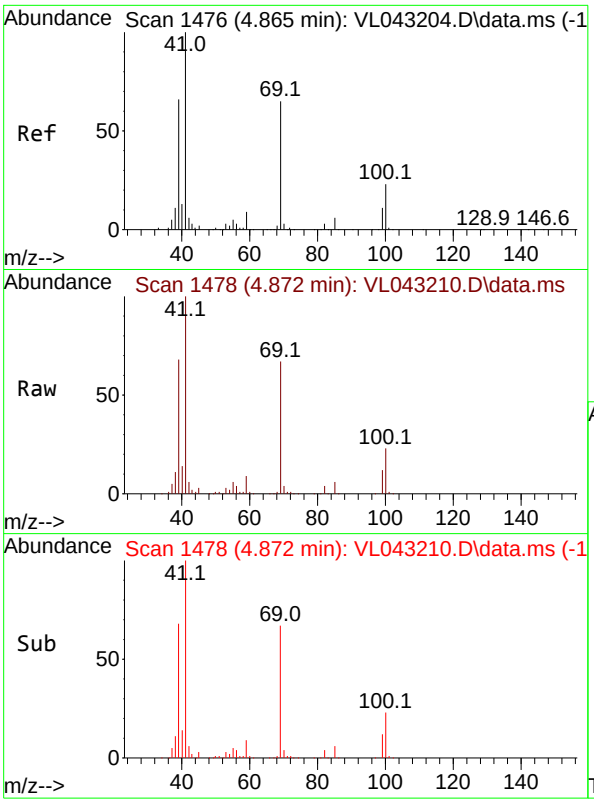


#42
Bromodichloromethane
Concen: 14.721 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 83 Resp: 294008

Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.7	77.5
127	7.6	6.3	9.5



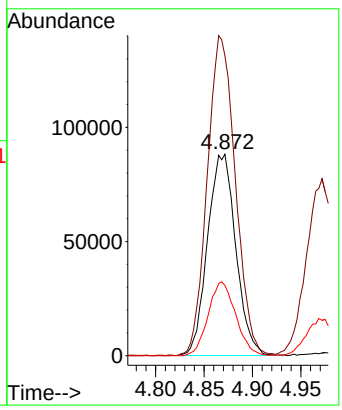


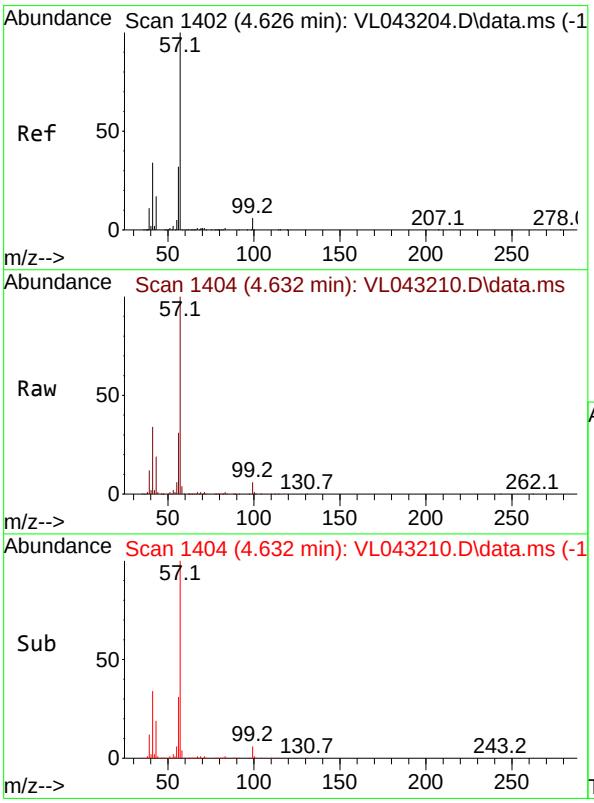
#43
Methyl Methacrylate
Concen: 13.633 ppbv
RT: 4.872 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 69 Resp: 179110

Ion	Ratio	Lower	Upper
69	100		
41	157.9	126.7	190.1
100	35.7	28.6	43.0

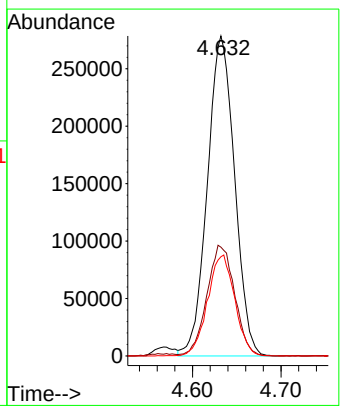


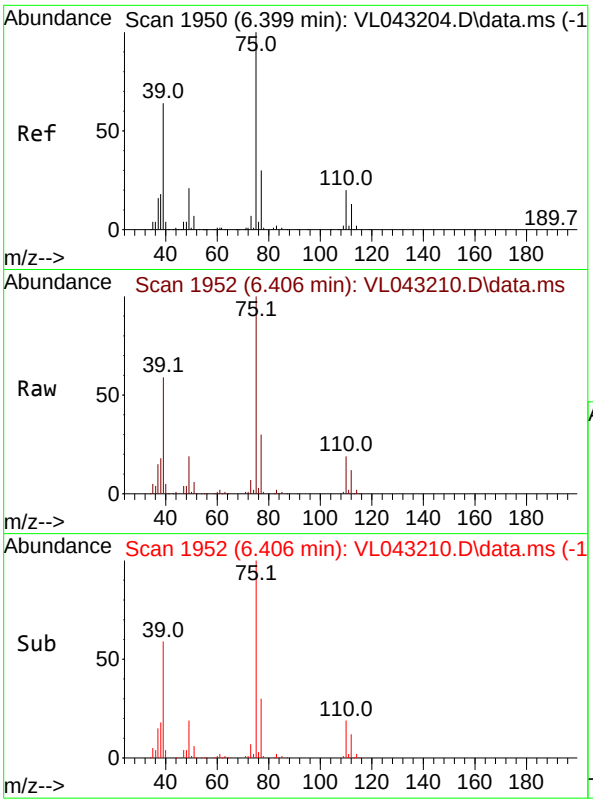


#44
2,2,4-Trimethylpentane
Concen: 14.014 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 57 Resp: 595778

Ion	Ratio	Lower	Upper
57	100		
41	35.9	28.0	42.0
56	31.6	25.6	38.4



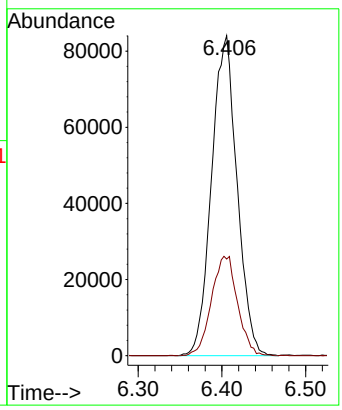


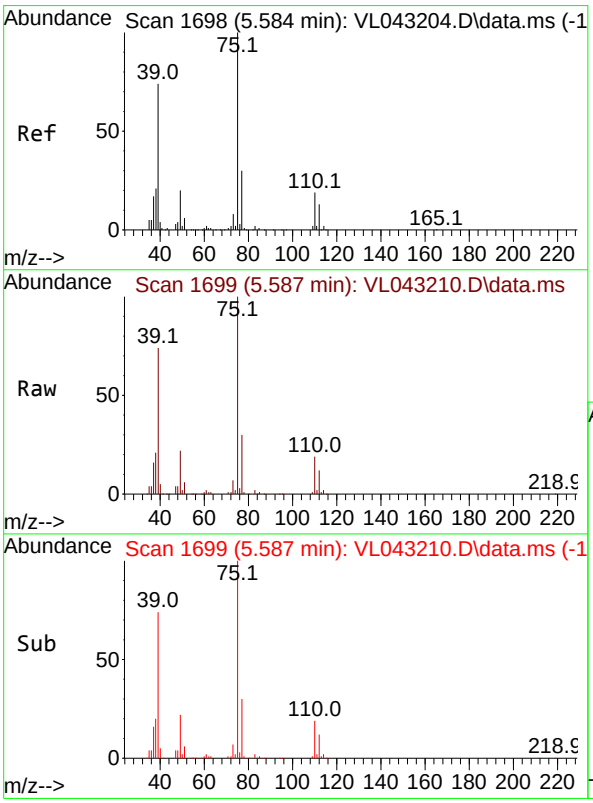
#45
t-1,3-Dichloropropene
Concen: 14.508 ppbv
RT: 6.406 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 75 Resp: 177678

Ion	Ratio	Lower	Upper
75	100		
77	30.2	24.3	36.5

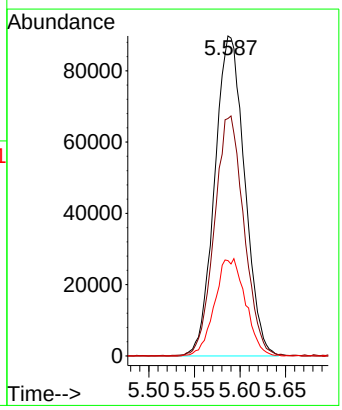


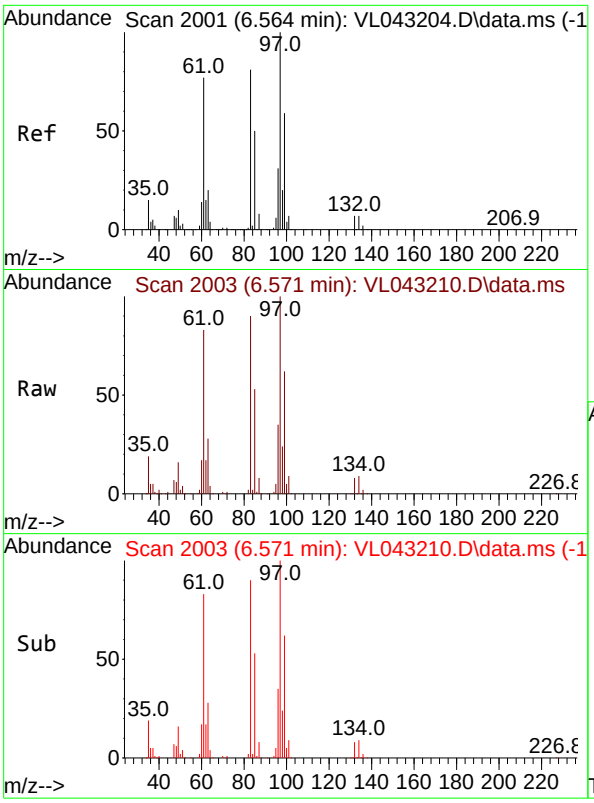


#46
cis-1,3-Dichloropropene
Concen: 14.270 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 75 Resp: 205226

Ion	Ratio	Lower	Upper
75	100		
39	73.9	59.1	88.7
77	29.8	24.2	36.2



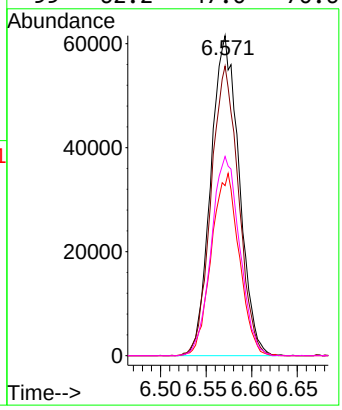


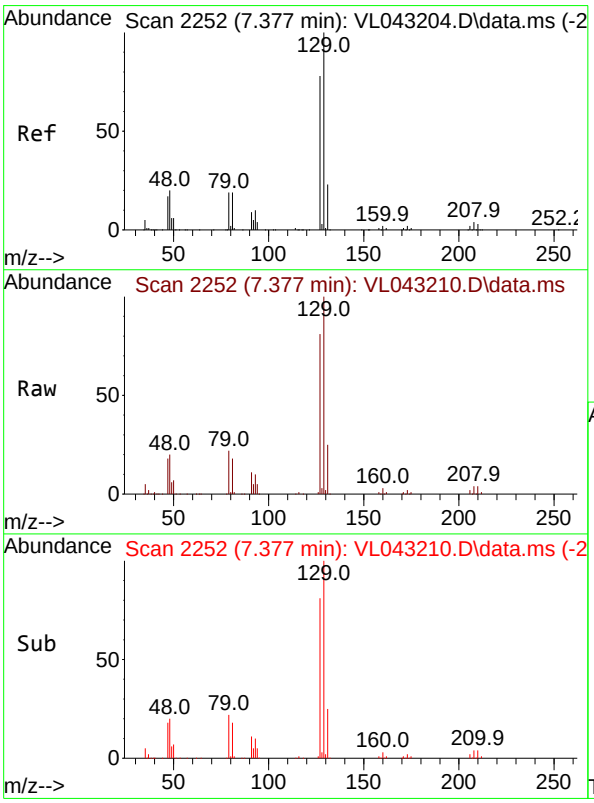
#47
1,1,2-Trichloroethane
Concen: 13.738 ppbv
RT: 6.571 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 97 Resp: 132701

Ion	Ratio	Lower	Upper
97	100		
83	90.4	64.6	97.0
85	53.2	39.4	59.2
99	62.2	47.0	70.6

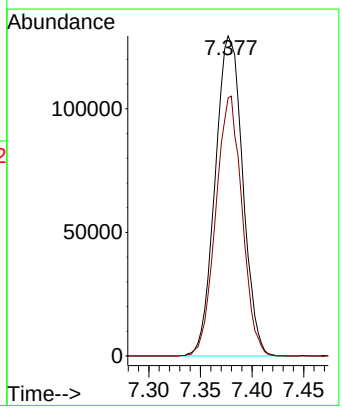


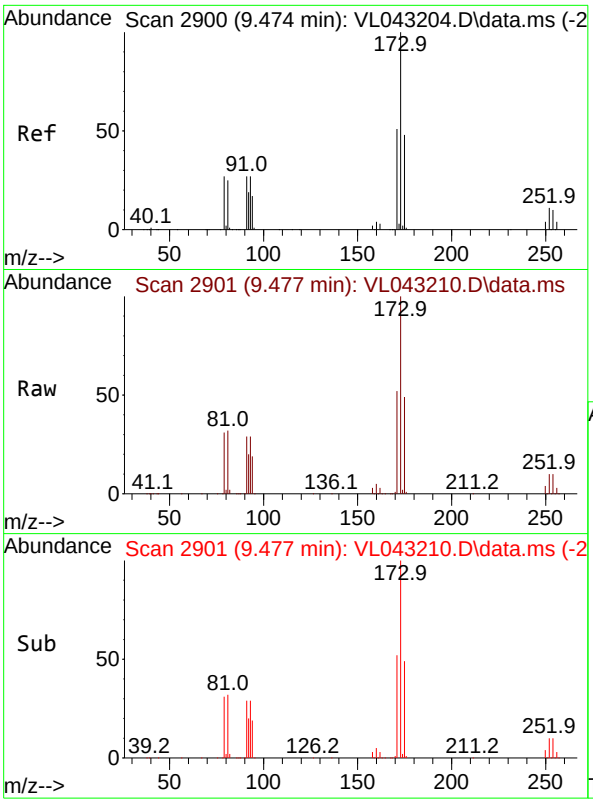


#48
Dibromochloromethane
Concen: 14.564 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:129 Resp: 240736

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.3	117.9



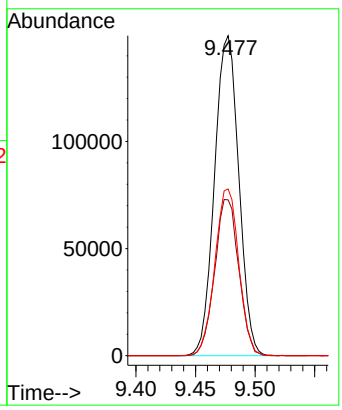


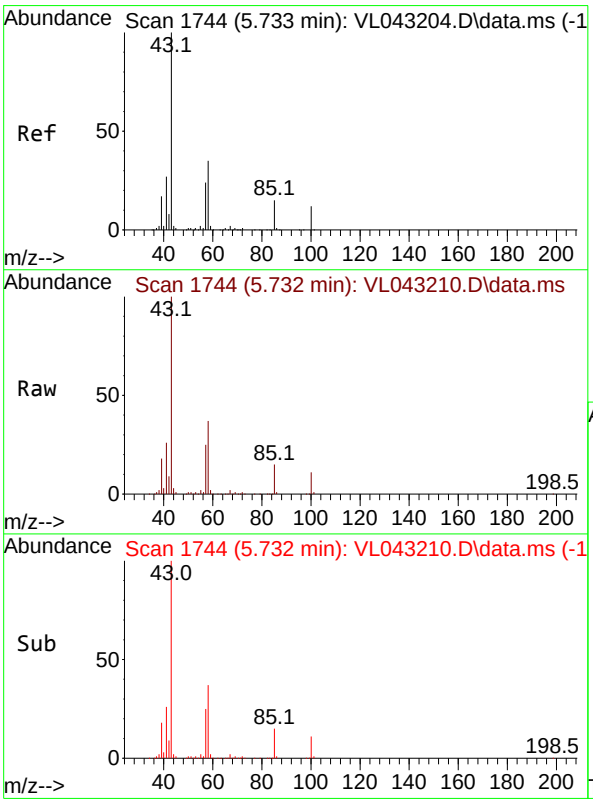
#49
Bromoform
Concen: 14.434 ppbv
RT: 9.477 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:173 Resp: 211325

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.6	58.0
171	51.5	40.6	61.0

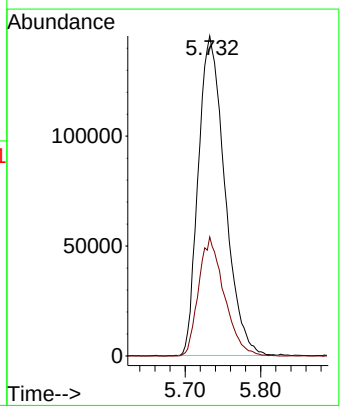


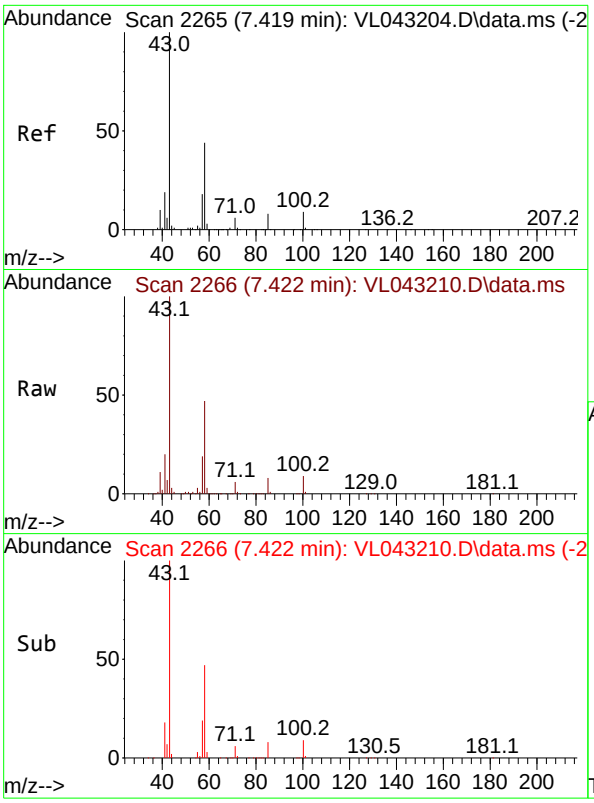


#50
4-Methyl-2-Pentanone
Concen: 13.790 ppbv
RT: 5.732 min Scan# 1744
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 43 Resp: 354421

Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.4	42.6



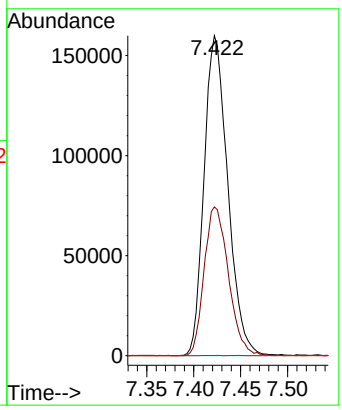


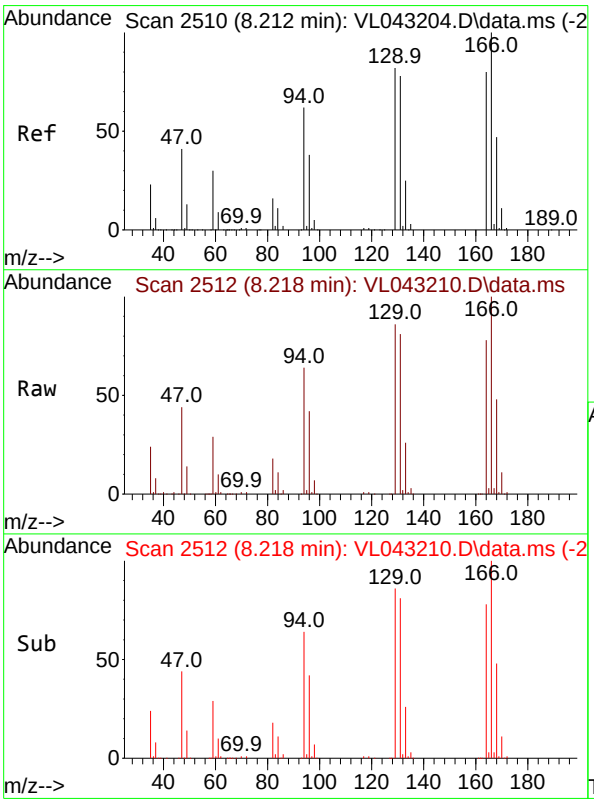
#51
2-Hexanone
Concen: 14.067 ppbv
RT: 7.422 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 280742

Ion	Ratio	Lower	Upper
43	100		
58	47.7	38.4	57.6
98	0.1	0.0	0.0#

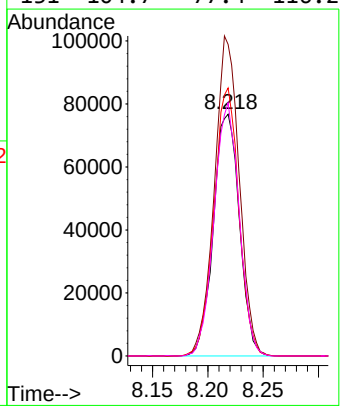


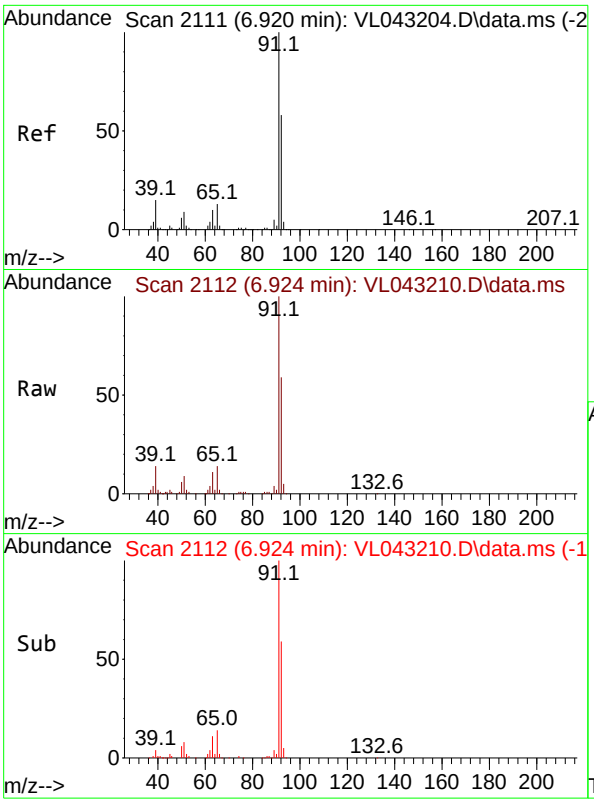


#52
Tetrachloroethene
Concen: 13.591 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:164 Resp: 125132

Ion	Ratio	Lower	Upper
164	100		
166	128.8	99.4	149.2
129	110.8	81.8	122.8
131	104.7	77.4	116.2



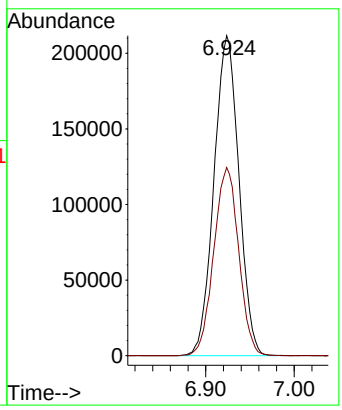


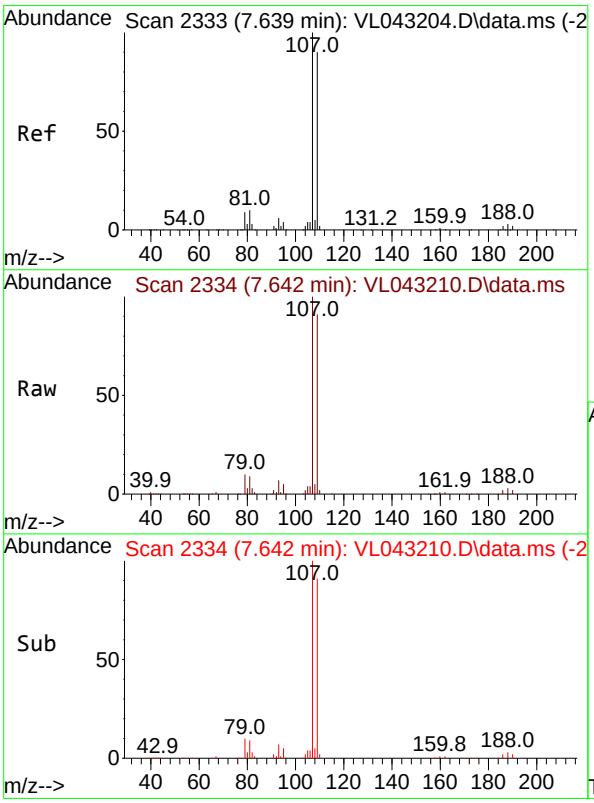
#53
Toluene
Concen: 14.050 ppbv
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 414411

Ion	Ratio	Lower	Upper
91	100		
92	58.8	47.4	71.0

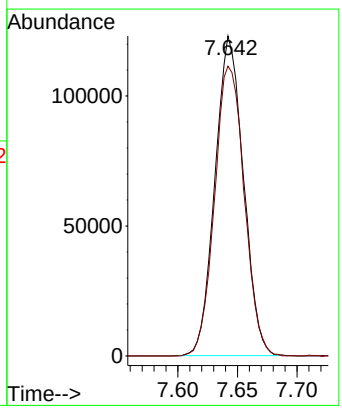


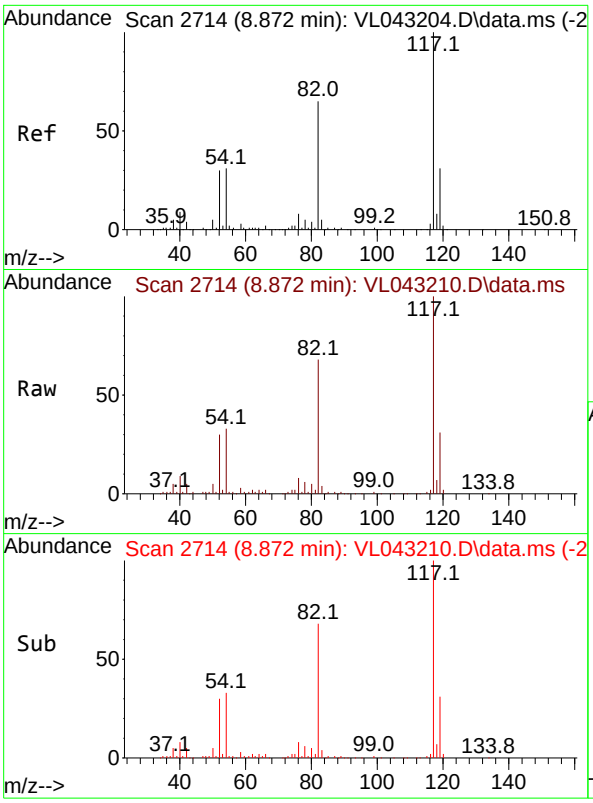


#54
1,2-Dibromoethane
Concen: 14.413 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:107 Resp: 203913

Ion	Ratio	Lower	Upper
107	100		
109	90.6	72.1	108.1



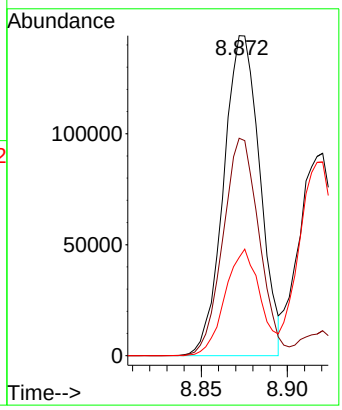


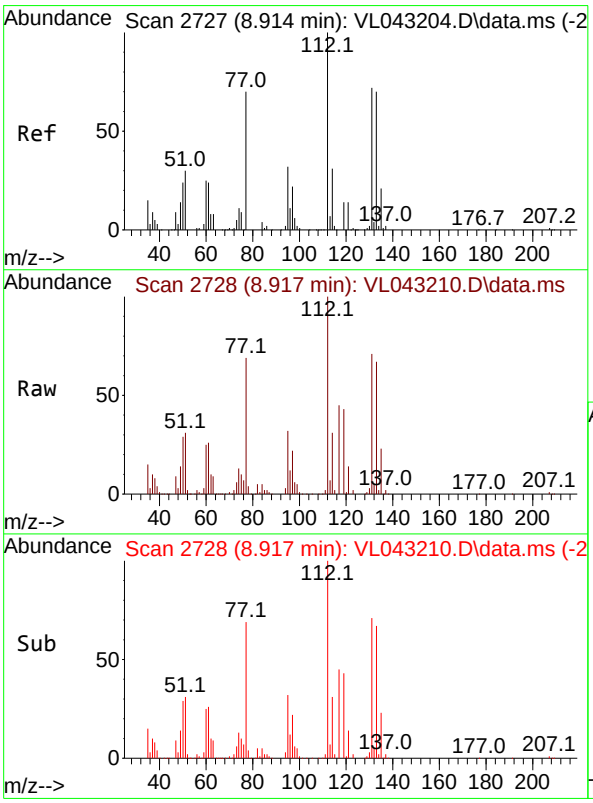
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 211247

Ion	Ratio	Lower	Upper
117	100		
82	68.4	56.1	84.1
119	32.6	25.0	37.6

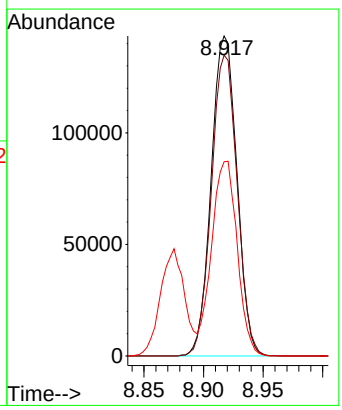


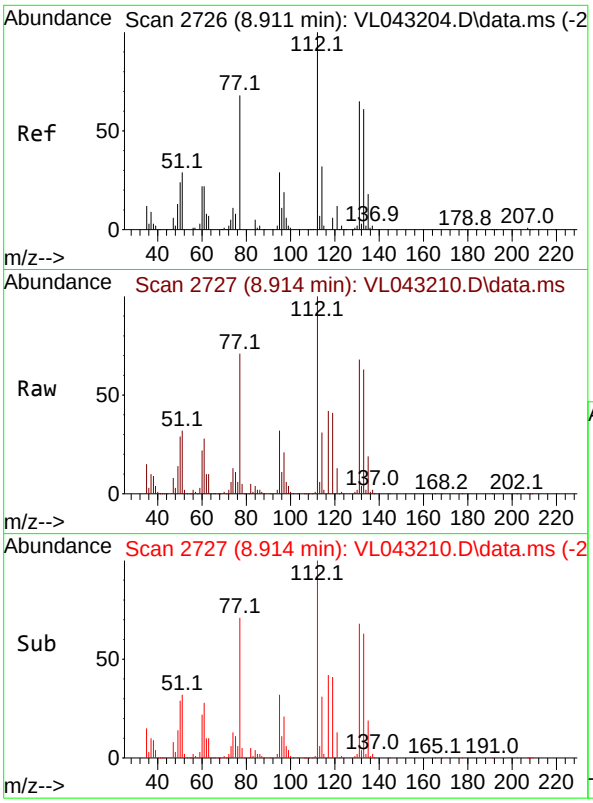


#56
1,1,1,2-Tetrachloroethane
Concen: 13.827 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:131 Resp: 214673

Ion	Ratio	Lower	Upper
131	100		
133	94.9	77.4	116.2
119	61.5	49.1	73.7



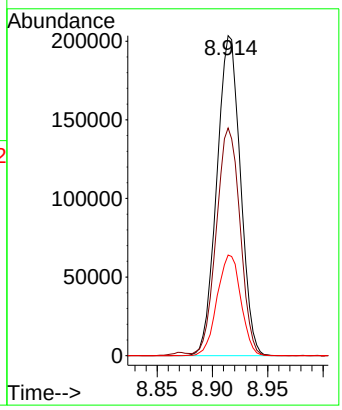


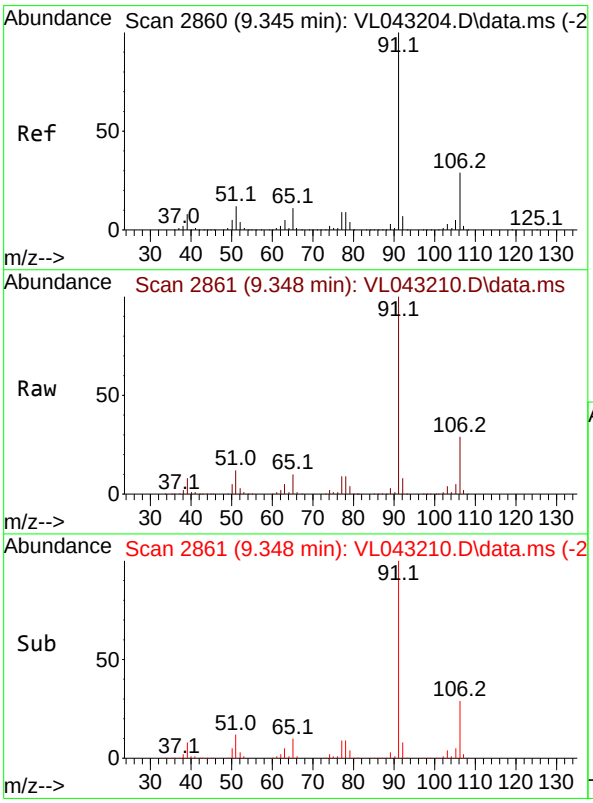
#57
Chlorobenzene
Concen: 13.923 ppbv
RT: 8.914 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:112 Resp: 301986

Ion	Ratio	Lower	Upper
112	100		
77	71.1	55.5	83.3
114	31.5	29.1	35.5

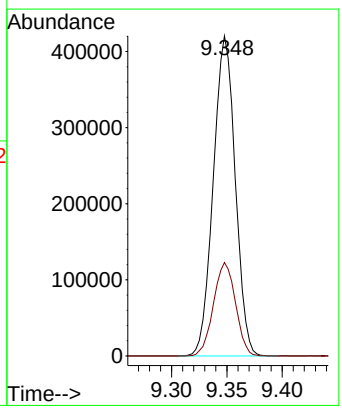


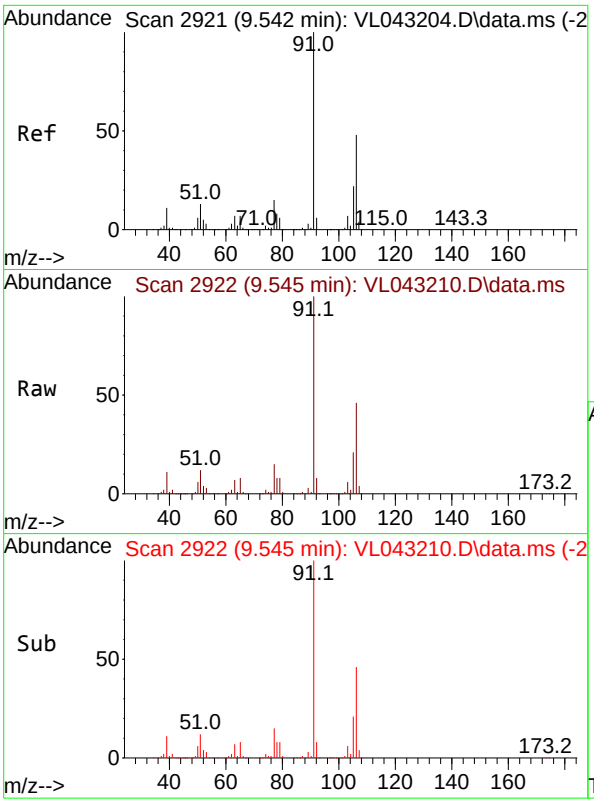


#58
Ethyl Benzene
Concen: 14.262 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 579890

Ion	Ratio	Lower	Upper
91	100		
106	29.2	22.8	34.2



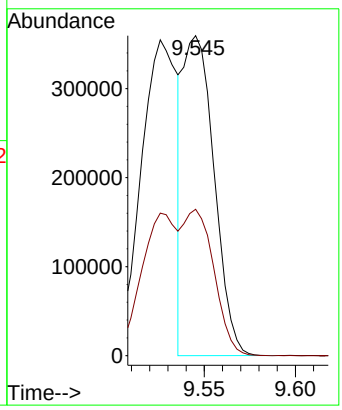


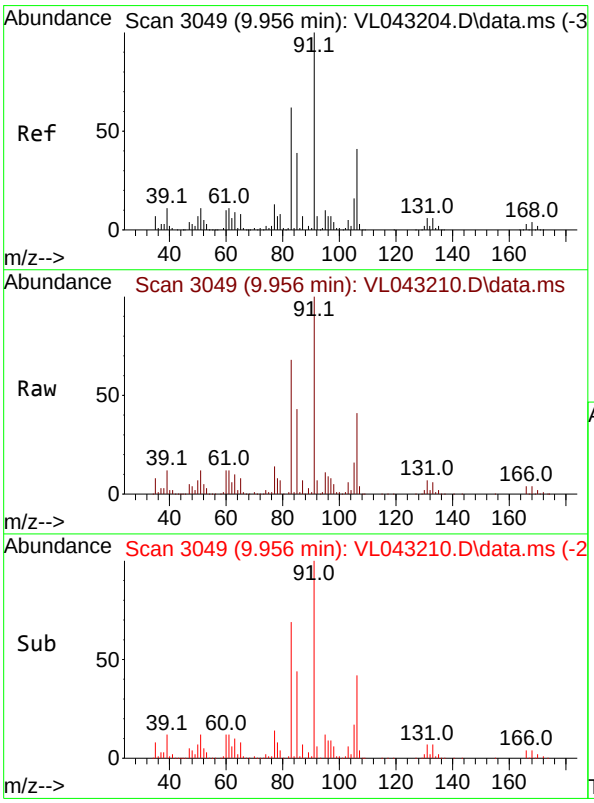
#59
m/p-Xylene
Concen: 12.959 ppbv
RT: 9.545 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 423995

Ion	Ratio	Lower	Upper
91	100		
106	97.4	36.1	54.1#

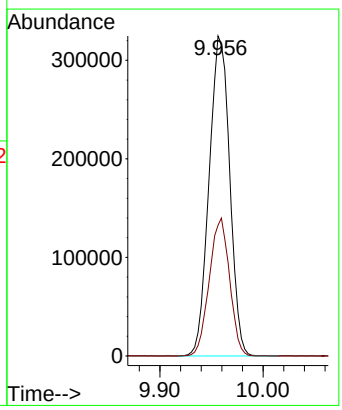


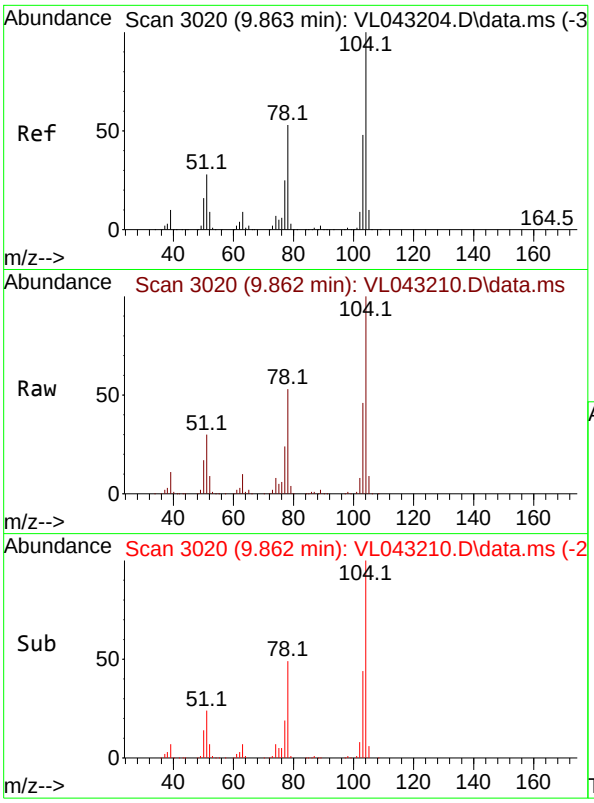


#60
o-Xylene
Concen: 13.826 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 450260

Ion	Ratio	Lower	Upper
91	100		
106	42.4	20.9	62.8



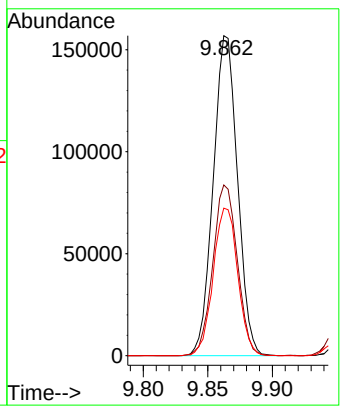


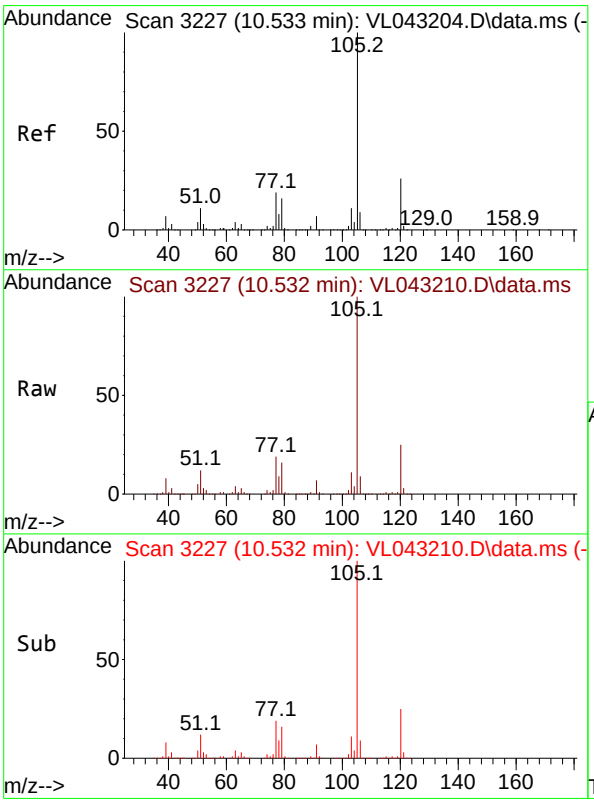
#61
Styrene
Concen: 14.382 ppbv
RT: 9.862 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:104 Resp: 204972

Ion	Ratio	Lower	Upper
104	100		
78	53.7	42.1	63.1
103	46.9	37.2	55.8

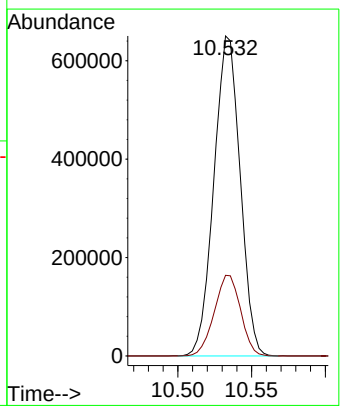


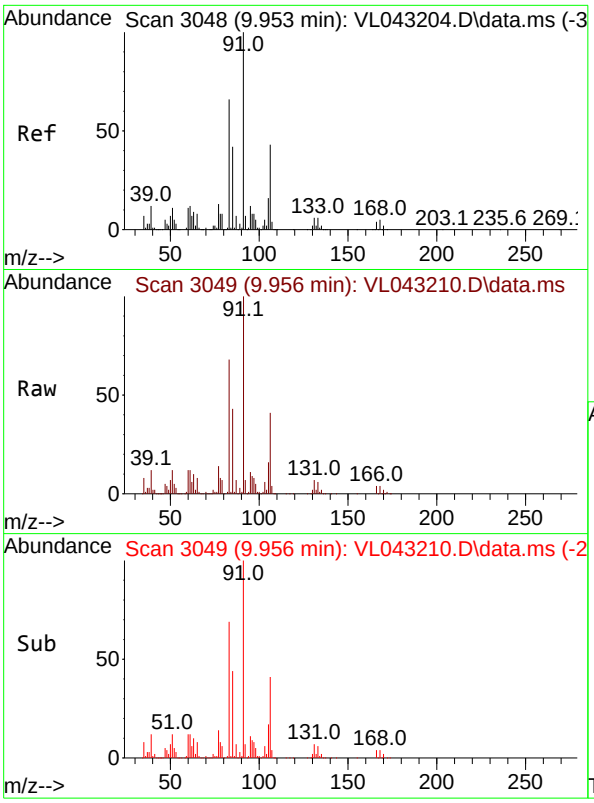


#62
Isopropylbenzene
Concen: 13.791 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 803487

Ion	Ratio	Lower	Upper
105	100		
120	25.3	19.8	29.8



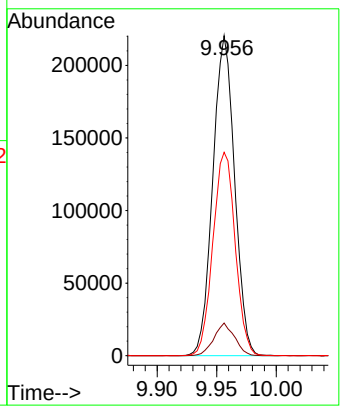


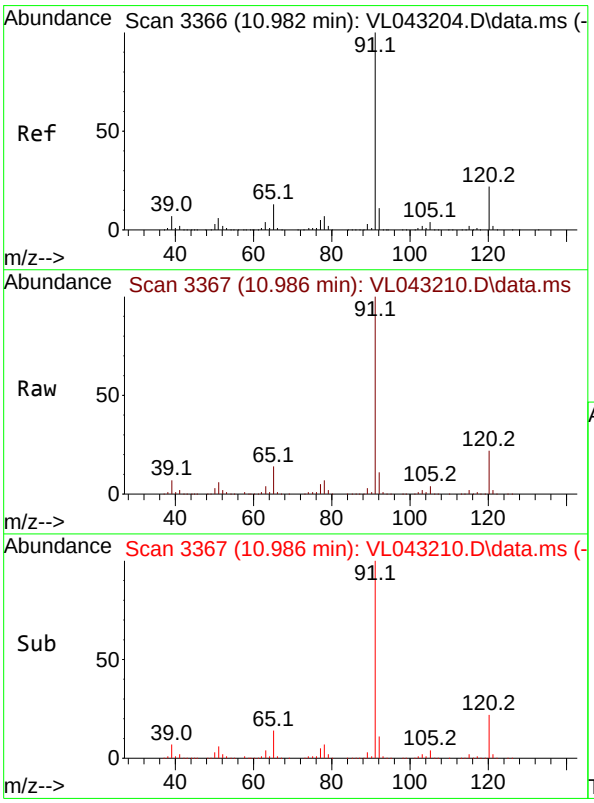
#63
1,1,2,2-Tetrachloroethane
Concen: 13.557 ppbv
RT: 9.956 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 280254

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.3
85	64.9	31.9	95.9

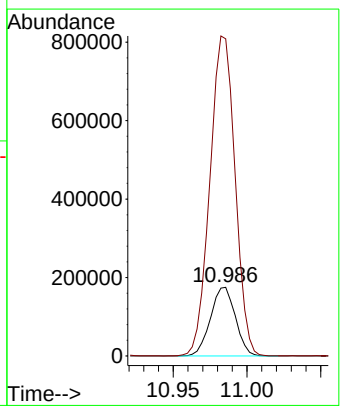


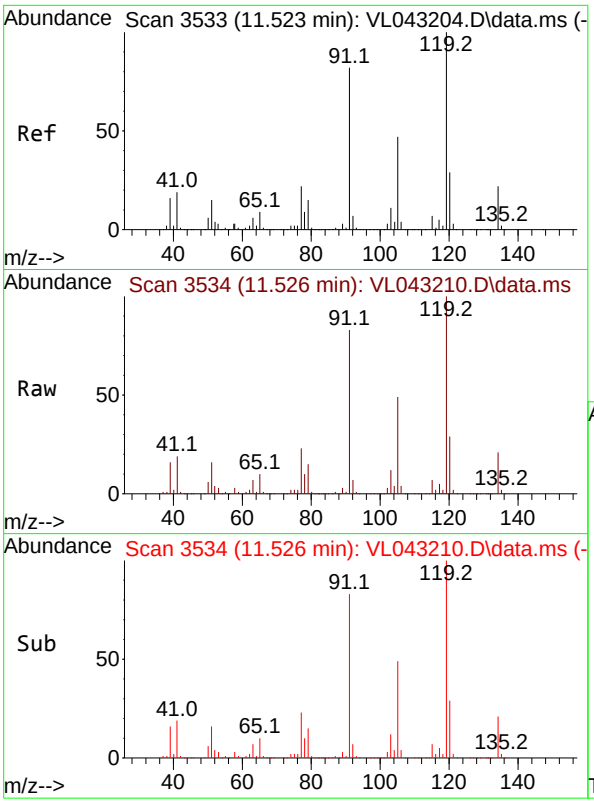


#64
n-propylbenzene
Concen: 13.737 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:120 Resp: 205637

Ion	Ratio	Lower	Upper
120	100		
91	471.6	377.1	565.7



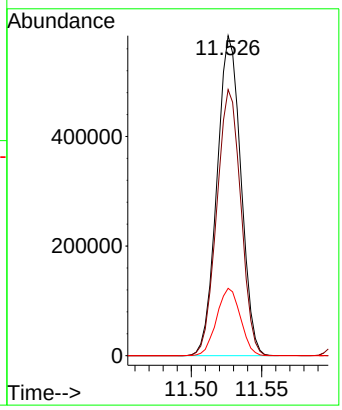


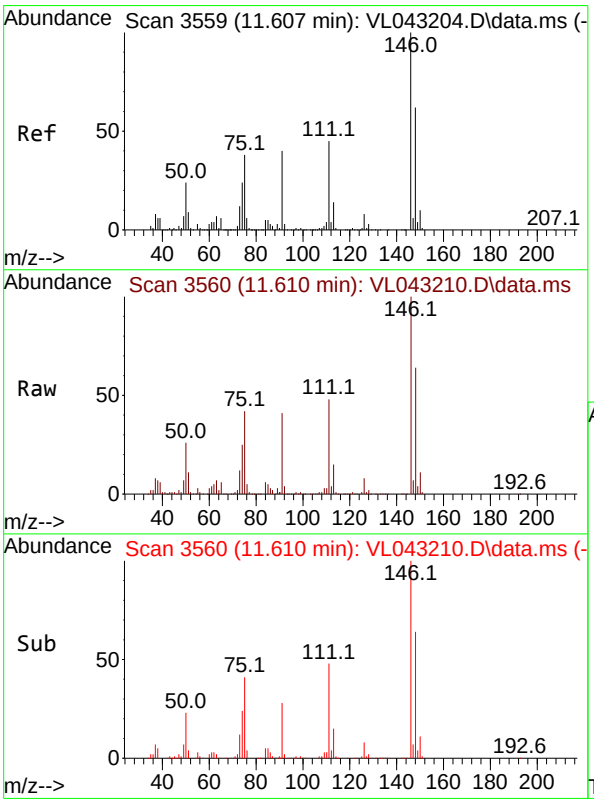
#65
tert-Butylbenzene
Concen: 13.249 ppbv
RT: 11.526 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 689352

Ion	Ratio	Lower	Upper
119	100		
91	83.7	65.3	97.9
134	20.9	17.0	25.4

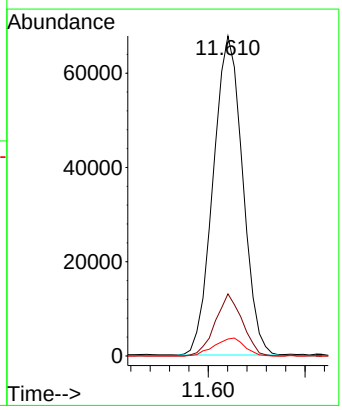


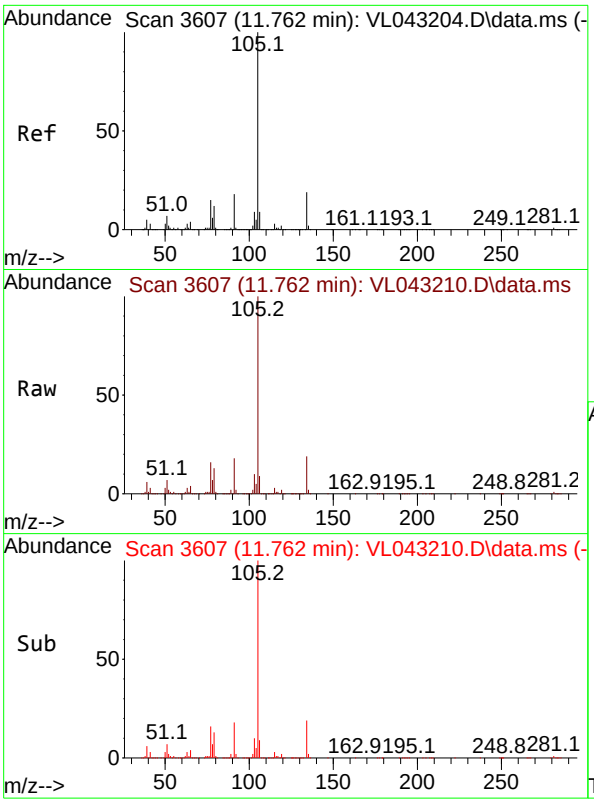


#66
Benzyl Chloride
Concen: 13.520 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 71386

Ion	Ratio	Lower	Upper
91	100		
126	17.9	14.4	21.6
128	5.9	4.6	6.8



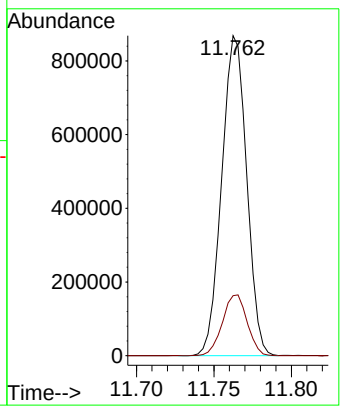


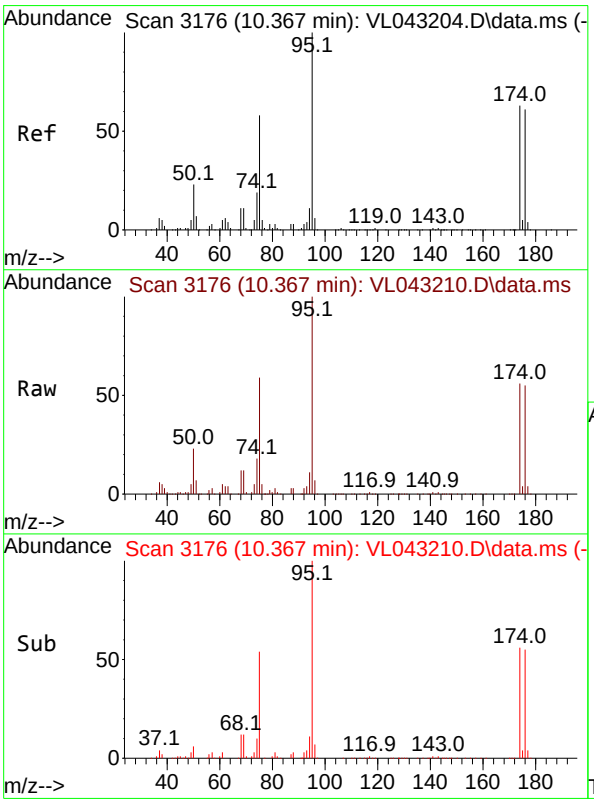
#67
sec-Butylbenzene
Concen: 13.394 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 972780

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.0	22.6

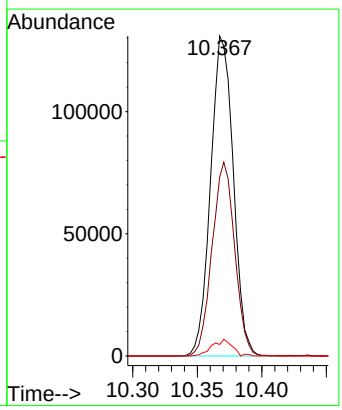


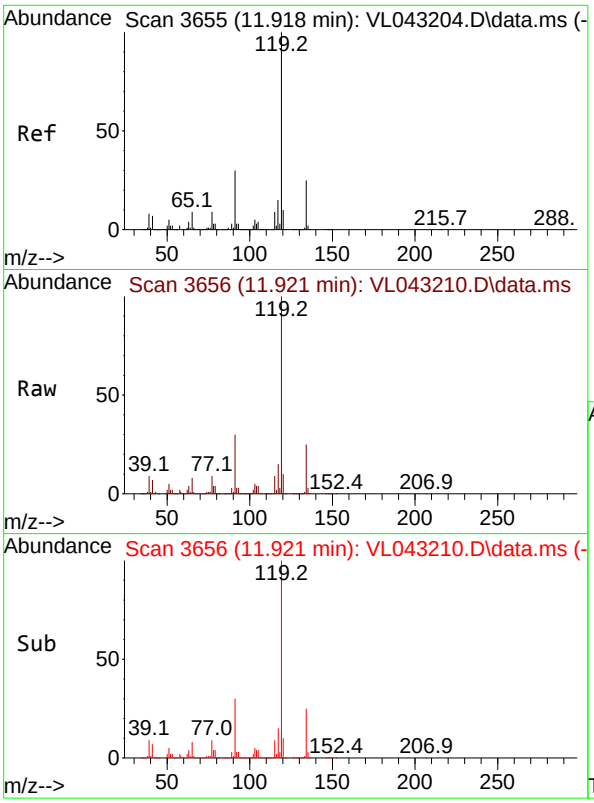


#68
1-Bromo-4-Fluorobenzene
Concen: 10.321 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 95 Resp: 159814

Ion	Ratio	Lower	Upper
95	100		
174	60.3	50.2	75.2
175	4.7	4.1	6.1



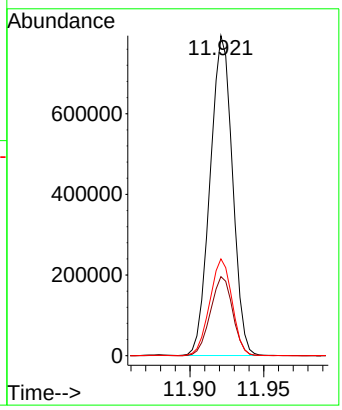


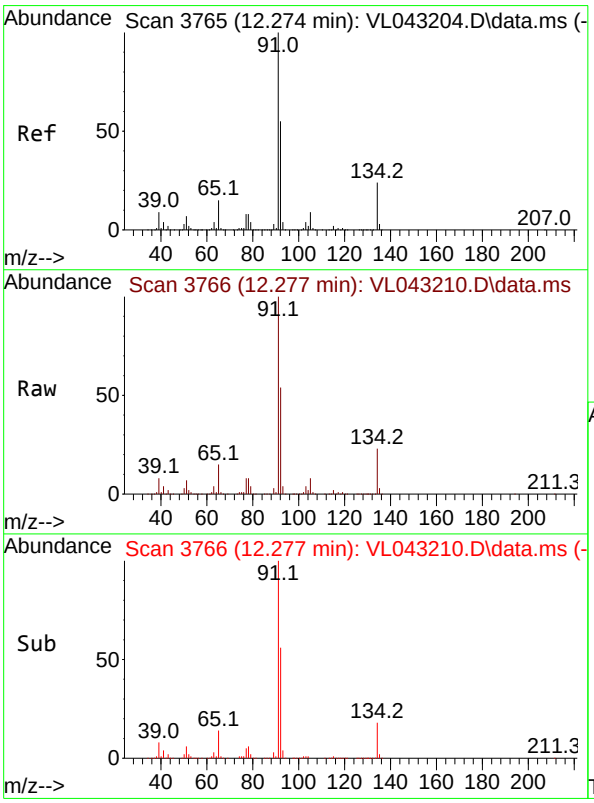
#69
p-Isopropyltoluene
Concen: 13.602 ppbv
RT: 11.921 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 836888

Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.2	30.2
91	30.3	23.8	35.8

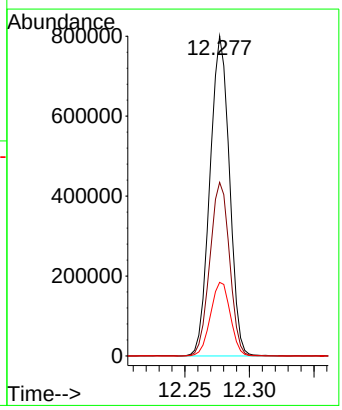


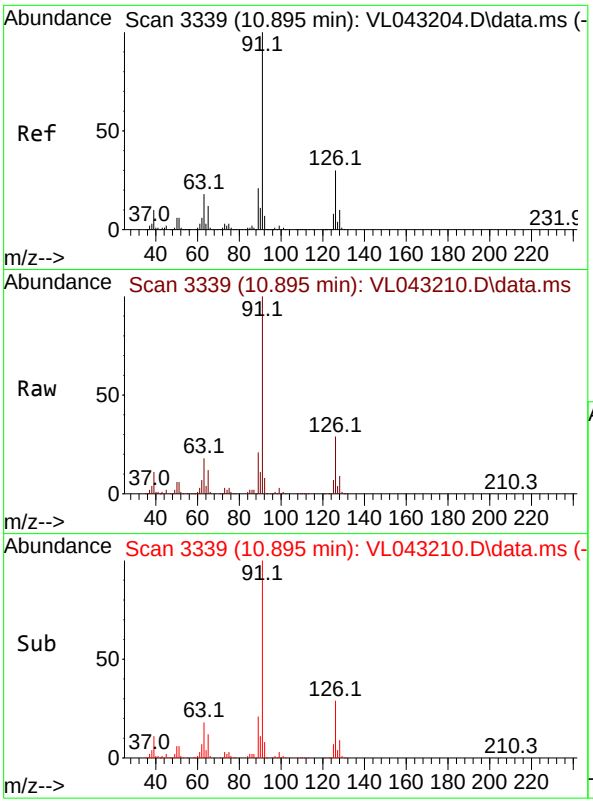


#70
n-Butylbenzene
Concen: 14.050 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion: 91 Resp: 838598

Ion	Ratio	Lower	Upper
91	100		
92	54.9	43.5	65.3
134	23.4	19.0	28.6



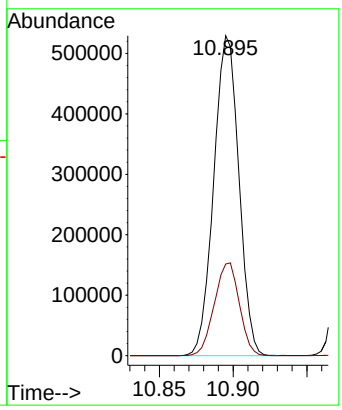


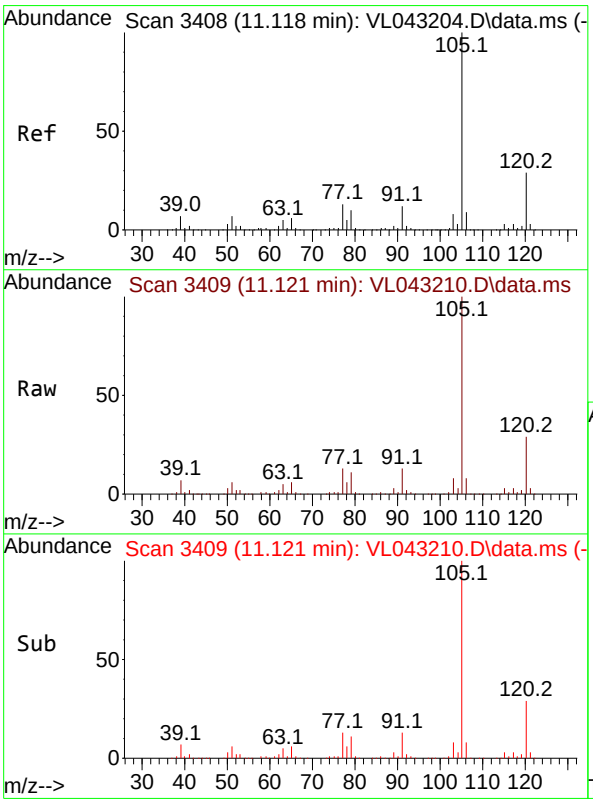
#71
2-Chlorotoluene
Concen: 13.976 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 625884

Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.7	46.7

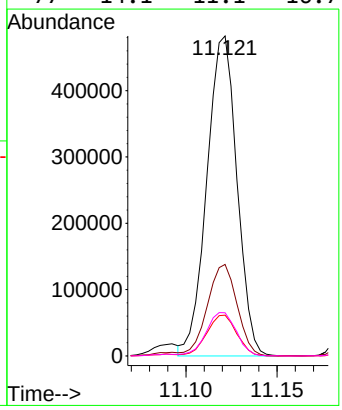


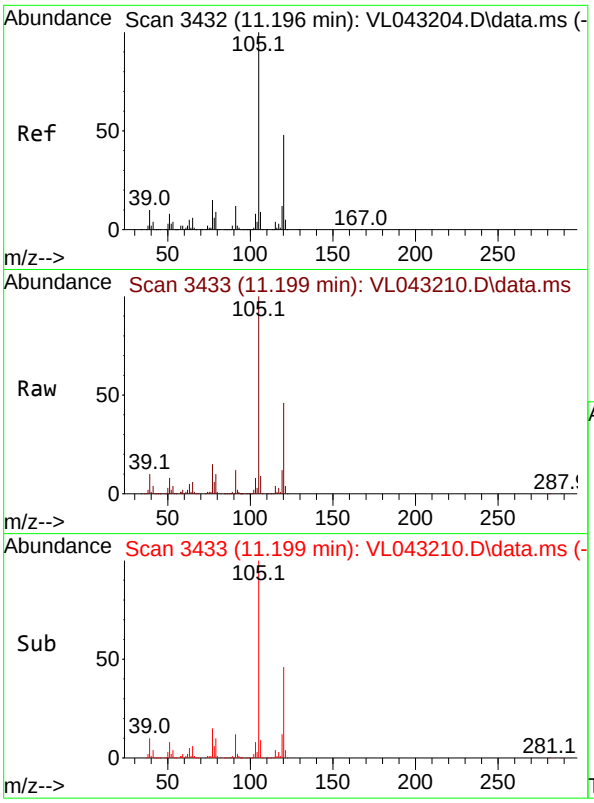


#72
4-Ethyltoluene
Concen: 13.961 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 553654

Ion	Ratio	Lower	Upper
105	100		
120	29.3	23.8	35.8
91	13.2	10.3	15.5
77	14.1	11.1	16.7



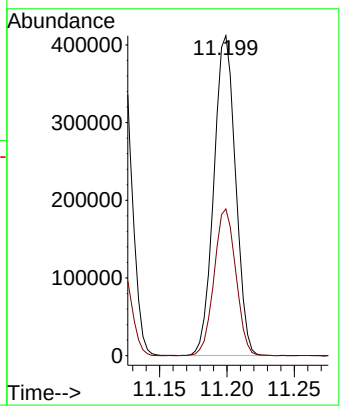


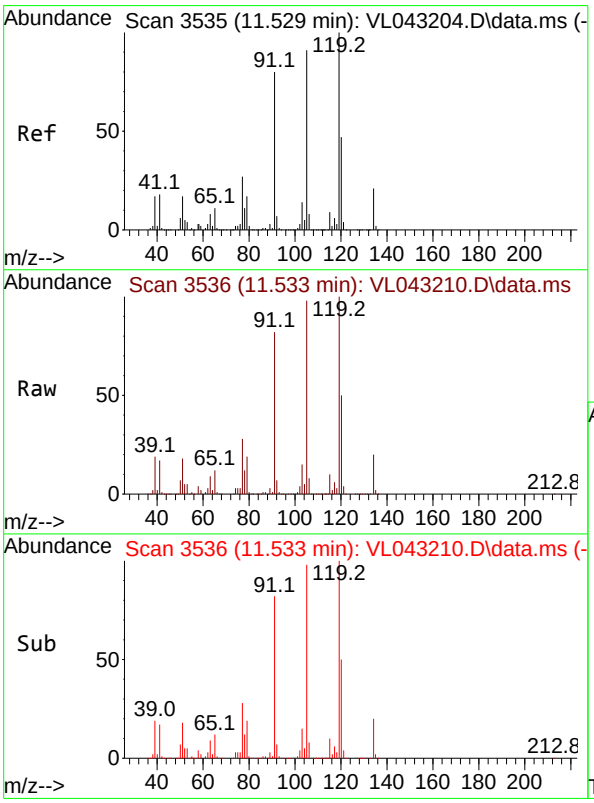
#73
1,3,5-Trimethylbenzene
Concen: 13.846 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 460783

Ion	Ratio	Lower	Upper
105	100		
120	45.9	38.6	57.8

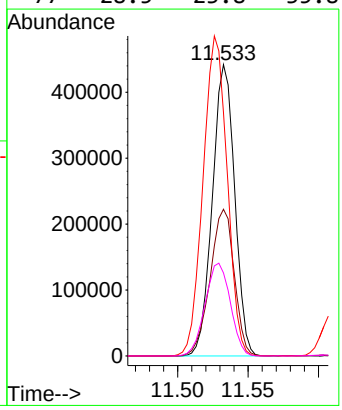


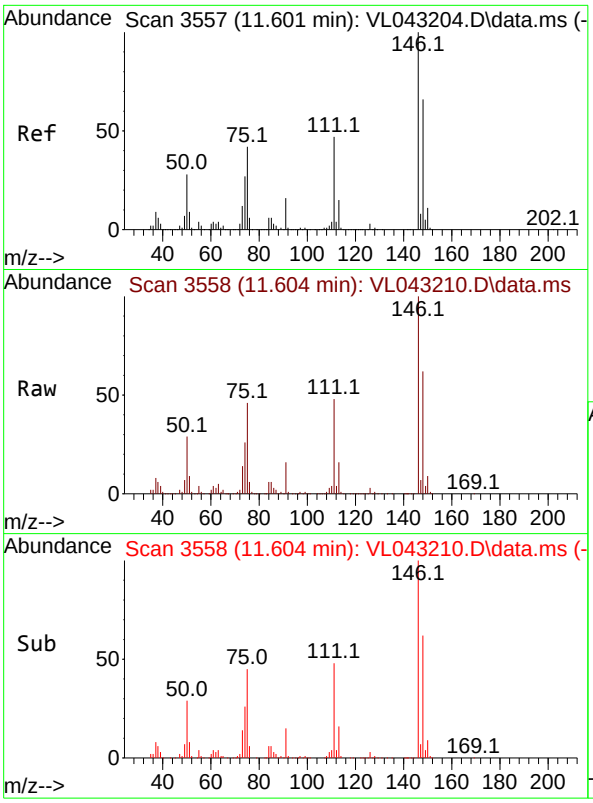


#74
1,2,4-Trimethylbenzene
Concen: 13.409 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:105 Resp: 486995

Ion	Ratio	Lower	Upper
105	100		
120	50.4	41.7	62.5
91	83.4	70.0	105.0
77	28.5	23.8	35.8



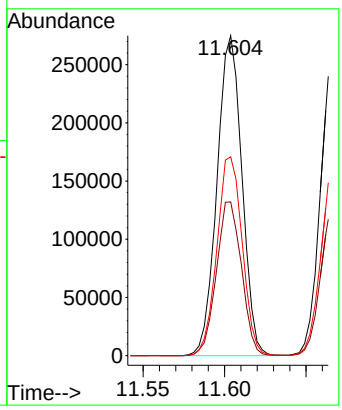


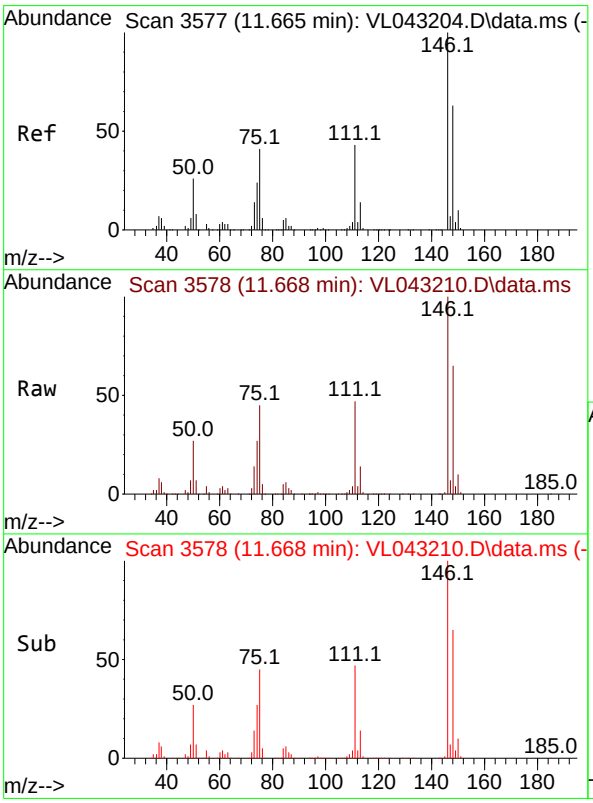
#75
1,3-Dichlorobenzene
Concen: 13.784 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:146 Resp: 292143

Ion	Ratio	Lower	Upper
146	100		
111	48.4	23.4	70.3
148	63.1	31.6	95.0

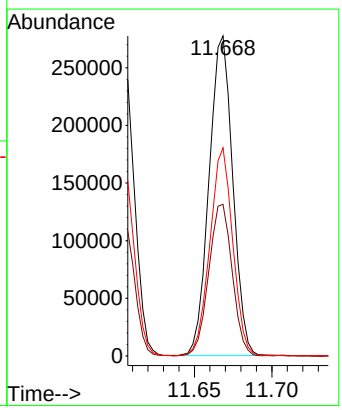


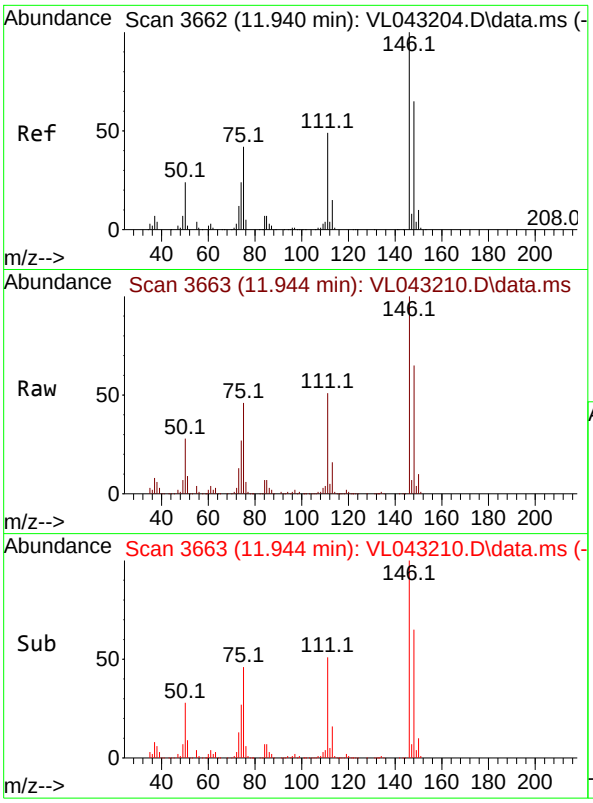


#76
1,4-Dichlorobenzene
Concen: 13.903 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:146 Resp: 294723

Ion	Ratio	Lower	Upper
146	100		
111	47.2	22.8	68.3
148	63.2	31.8	95.4



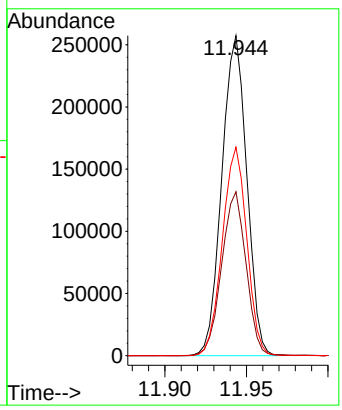


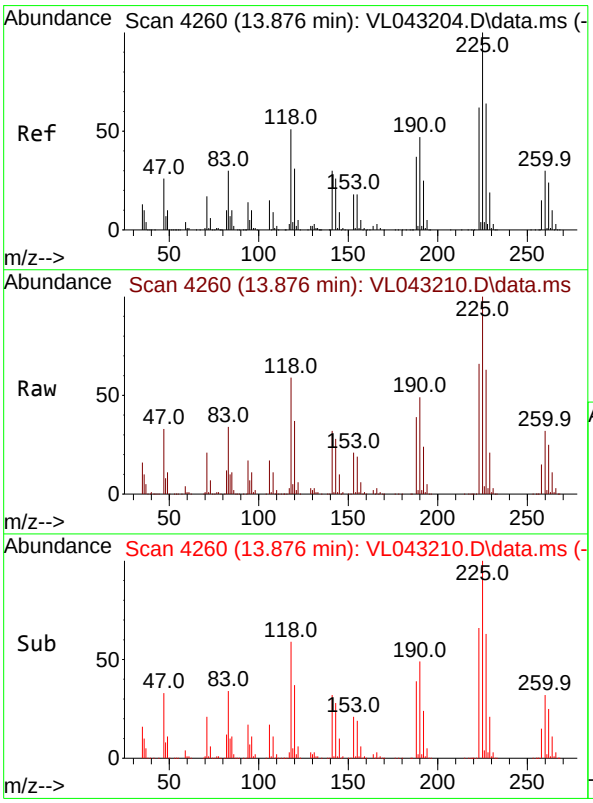
#77
1,2-Dichlorobenzene
Concen: 13.420 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:146 Resp: 273467

Ion	Ratio	Lower	Upper
146	100		
111	50.2	24.3	73.0
148	63.9	31.6	94.7

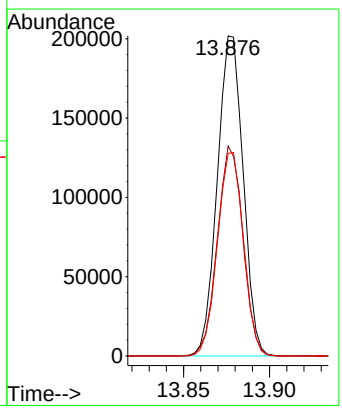


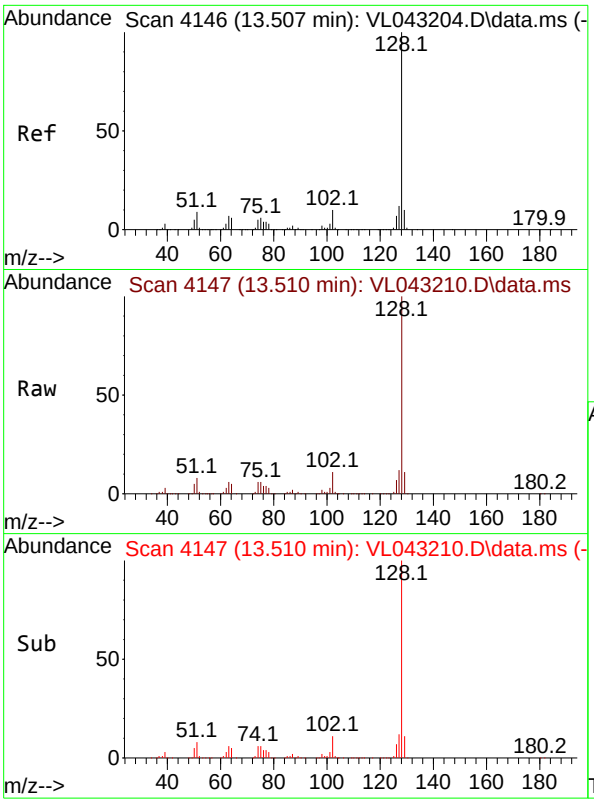


#78
Hexachloro-1,3-Butadiene
Concen: 12.416 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:225 Resp: 211153

Ion	Ratio	Lower	Upper
225	100		
223	64.9	50.2	75.4
227	63.9	51.1	76.7



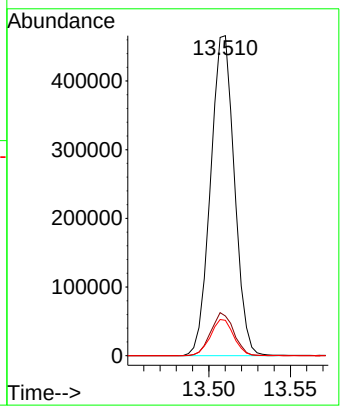


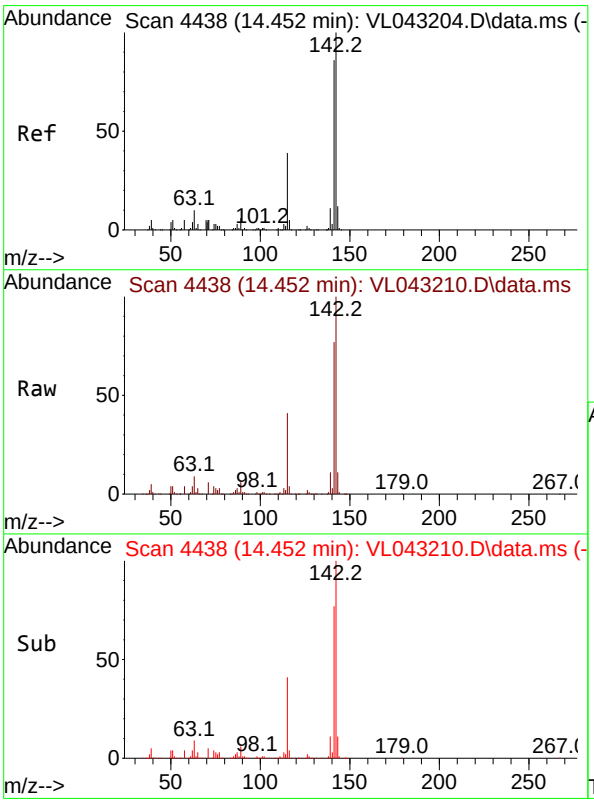
#79
Naphthalene
Concen: 14.670 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:128 Resp: 473229

Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.9	14.9
129	11.1	8.4	12.6

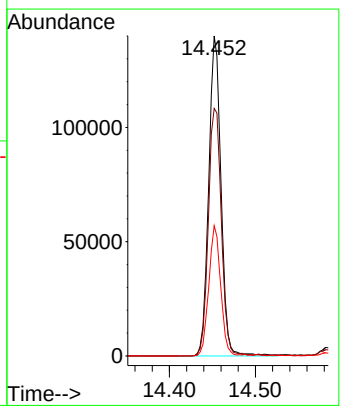


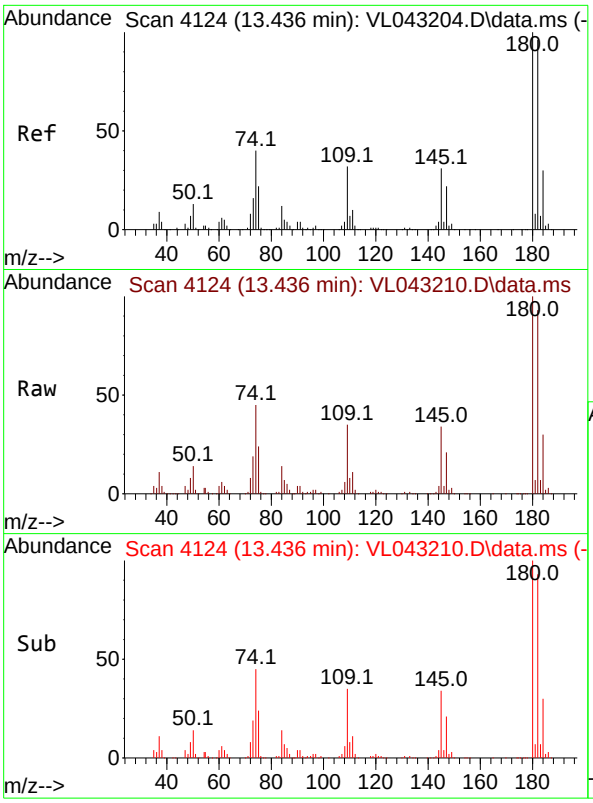


#80
Naphthalene,2-methyl-
Concen: 16.418 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Tgt Ion:142 Resp: 139019

Ion	Ratio	Lower	Upper
142	100		
141	82.6	67.1	100.7
115	40.2	31.9	47.9



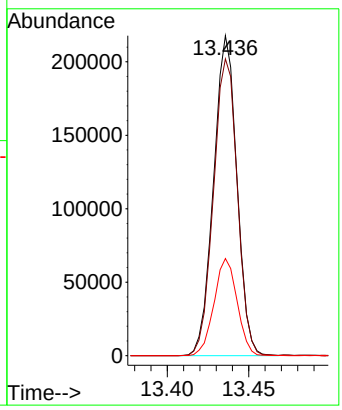


#81
1,2,4-Trichlorobenzene
Concen: 14.990 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043210.D
Acq: 18 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:180 Resp: 216260

Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.4	116.2
184	30.1	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	97854	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	261914	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	216212	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	159242	10.048	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	133374	9.664	ppbv	98
3) Chlorodifluoromethane	1.476	51	124858	9.199	ppbv	98
4) Chloromethane	1.535	50	46906	9.090	ppbv	95
5) Vinyl Chloride	1.580	62	47932	8.493	ppbv	95
6) Bromomethane	1.667	94	22230	8.126	ppbv	99
7) Chloroethane	1.703	64	19854	9.033	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	110587	9.632	ppbv	97
9) Propene	1.771	41	50816	8.817	ppbv	100
10) Heptane	4.975	43	149202	8.698	ppbv	99
11) Trichlorofluoromethane	1.878	101	134746	10.077	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	100984	9.673	ppbv	99
13) Ethanol	1.719	45	15371	7.584	ppbv	92
14) Bromoethene	1.781	108	36979	9.240	ppbv	98
15) Acetone	1.832	43	104830	7.711	ppbv	99
16) 1,3-Butadiene	1.609	39	54795	9.041	ppbv	96
17) tert-Butyl alcohol	2.036	59	164987	9.245	ppbv	99
18) 1,1-Dichloroethene	2.033	96	43833	9.017	ppbv	99
19) Isopropyl Alcohol	1.884	45	64772	8.431	ppbv	97
20) Methylene Chloride	2.062	84	41254	10.323	ppbv	95
21) Allyl Chloride	2.095	41	75516	8.256	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	50228	9.041	ppbv	92
23) Vinyl Acetate	2.460	43	140156	8.539	ppbv	98
24) 1,1-Dichloroethane	2.409	63	103187	9.622	ppbv	97
25) Ethyl Acetate	2.829	43	258609	8.820	ppbv	99
26) Hexane	2.826	57	114312	8.892	ppbv	98
27) Carbon Disulfide	2.150	76	125048	9.528	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	64183	10.171	ppbv	98
29) Chloroform	2.846	83	173977	9.521	ppbv	99
30) Cyclohexane	3.852	84	98598	9.148	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	119843	9.379	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	182262	9.358	ppbv	98
34) 2-Butanone	2.551	43	160977	8.707	ppbv	98
35) Carbon Tetrachloride	3.761	117	182902	9.200	ppbv	98
36) Benzene	3.655	78	233094	9.293	ppbv	99
37) 1,2-Dichloroethane	3.214	62	143363	9.772	ppbv	98
38) Trichloroethene	4.542	130	90993	9.272	ppbv	95
39) 1,2-Dichloropropane	4.305	63	83416	9.086	ppbv	95
40) 1,4-Dioxane	4.571	88	32109	7.780	ppbv #	95
41) Tetrahydrofuran	3.046	42	90769	8.891	ppbv	98
42) Bromodichloromethane	4.486	83	195442	9.657	ppbv	96
43) Methyl Methacrylate	4.872	69	116325	8.737	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	393438	9.133	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	97587	7.863	ppbv	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

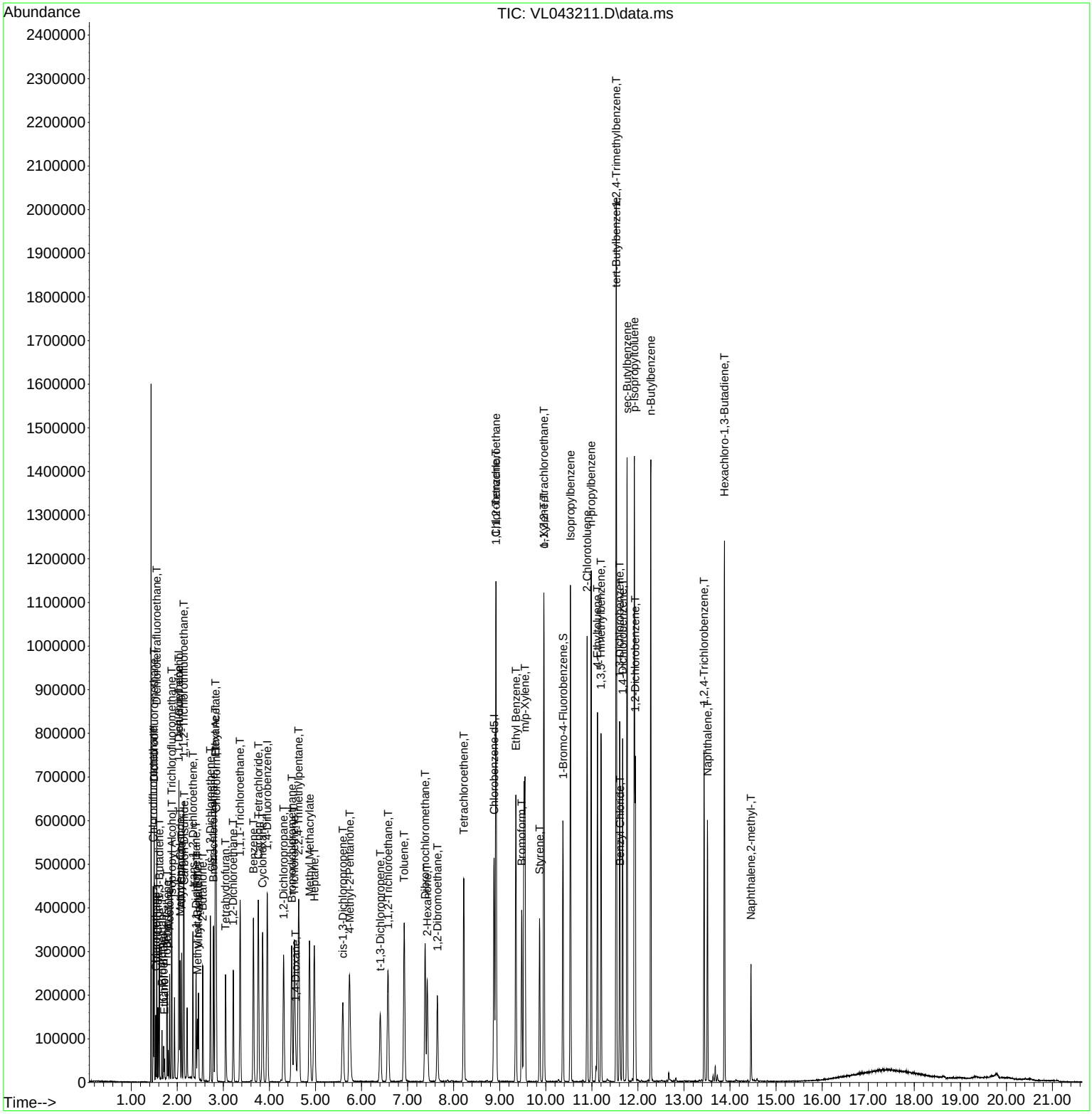
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	115476	7.924	ppbv		97
47) 1,1,2-Trichloroethane	6.577	97	88525	9.086	ppbv		95
48) Dibromochloromethane	7.380	129	159365	9.514	ppbv		99
49) Bromoform	9.477	173	134790	9.085	ppbv		99
50) 4-Methyl-2-Pentanone	5.742	43	224791	8.631	ppbv		99
51) 2-Hexanone	7.429	43	166506	8.233	ppbv	#	100
52) Tetrachloroethene	8.222	164	82890	8.884	ppbv		98
53) Toluene	6.924	91	273172	9.197	ppbv		99
54) 1,2-Dibromoethane	7.645	107	124804	8.705	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.921	131	142512	8.969	ppbv		98
57) Chlorobenzene	8.917	112	199373	8.981	ppbv		96
58) Ethyl Benzene	9.351	91	381474	9.167	ppbv		97
59) m/p-Xylene	9.549	91	265475	7.957	ppbv	#	13
60) o-Xylene	9.960	91	295836	8.876	ppbv		99
61) Styrene	9.866	104	127117	8.714	ppbv		97
62) Isopropylbenzene	10.536	105	525717	8.816	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.960	83	178591	8.421	ppbv		100
64) n-propylbenzene	10.986	120	131634	8.591	ppbv		96
65) tert-Butylbenzene	11.529	119	450819	8.465	ppbv		99
66) Benzyl Chloride	11.614	91	27878	5.159	ppbv		99
67) sec-Butylbenzene	11.766	105	623520	8.388	ppbv		100
69) p-Isopropyltoluene	11.924	119	520880	8.272	ppbv		99
70) n-Butylbenzene	12.280	91	513027	8.398	ppbv		99
71) 2-Chlorotoluene	10.898	91	396434	8.649	ppbv		99
72) 4-Ethyltoluene	11.122	105	356325	8.779	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	294977	8.660	ppbv		95
74) 1,2,4-Trimethylbenzene	11.533	105	314606	8.463	ppbv		94
75) 1,3-Dichlorobenzene	11.604	146	180491	8.320	ppbv		99
76) 1,4-Dichlorobenzene	11.669	146	179491	8.273	ppbv		99
77) 1,2-Dichlorobenzene	11.944	146	166137	7.966	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	125707	7.222	ppbv		100
79) Naphthalene	13.510	128	273029	8.270	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	74802	8.631	ppbv		97
81) 1,2,4-Trichlorobenzene	13.436	180	125470	8.497	ppbv		99

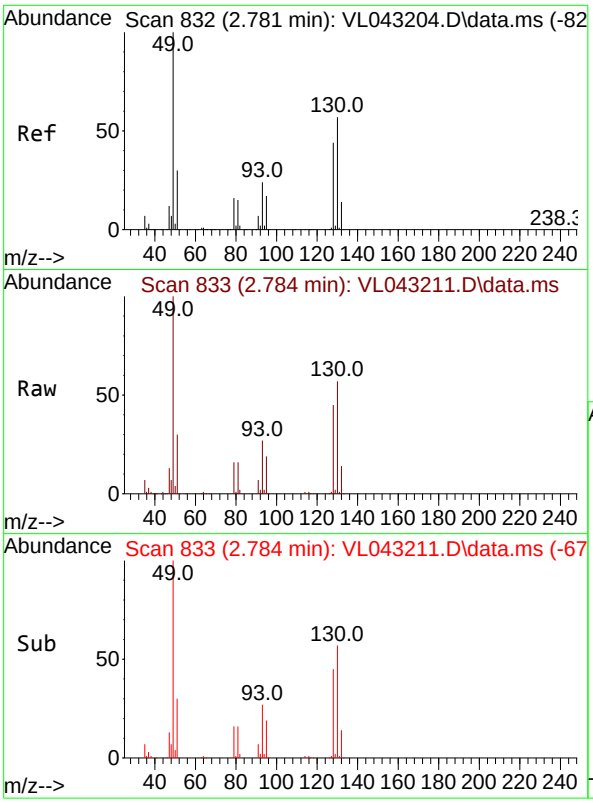
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043211.D
Acq On : 18 Nov 2025 13:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



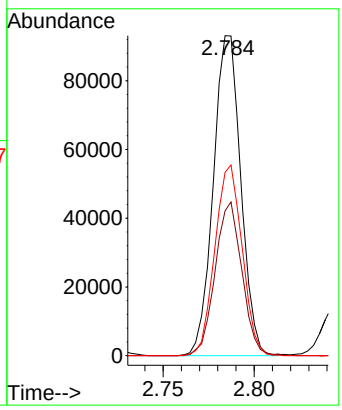


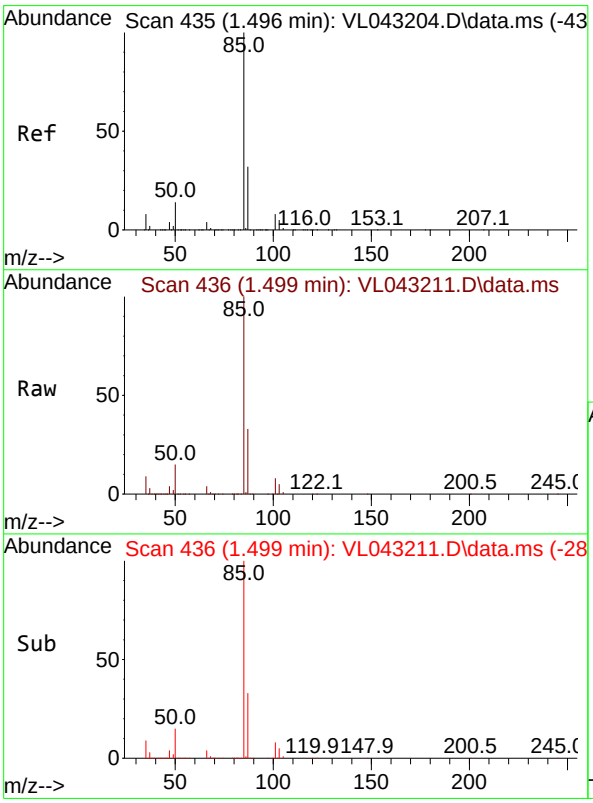
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 49 Resp: 97854

Ion	Ratio	Lower	Upper
49	100		
128	46.7	23.0	69.0
130	59.0	29.9	89.7

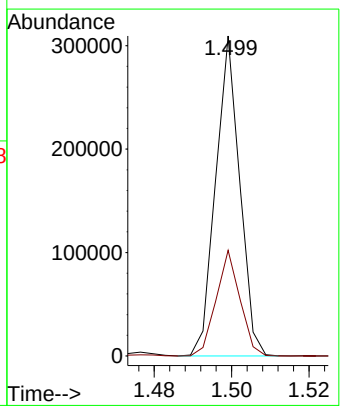


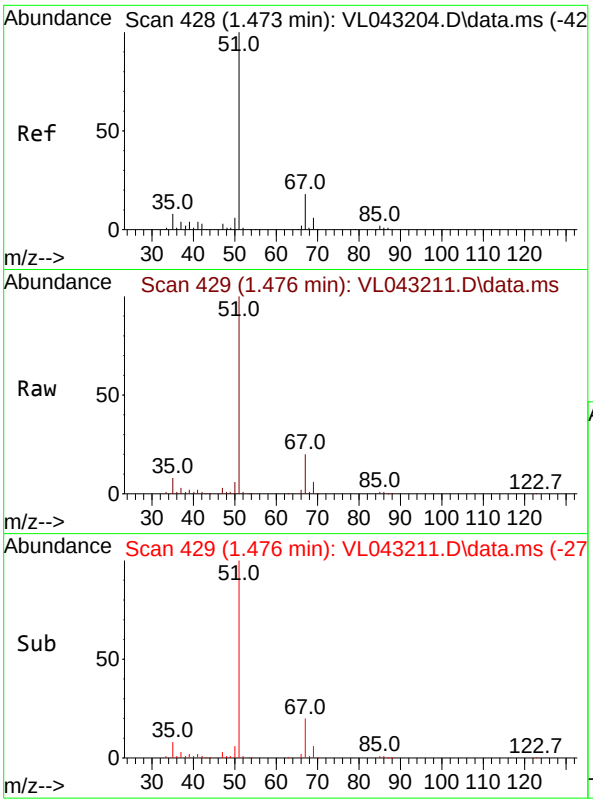


#2
Dichlorodifluoromethane
Concen: 9.664 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 85 Resp: 133374

Ion	Ratio	Lower	Upper
85	100		
87	33.0	25.4	38.2



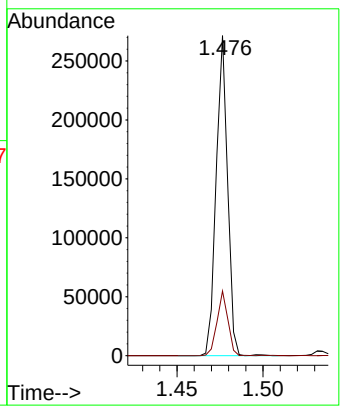


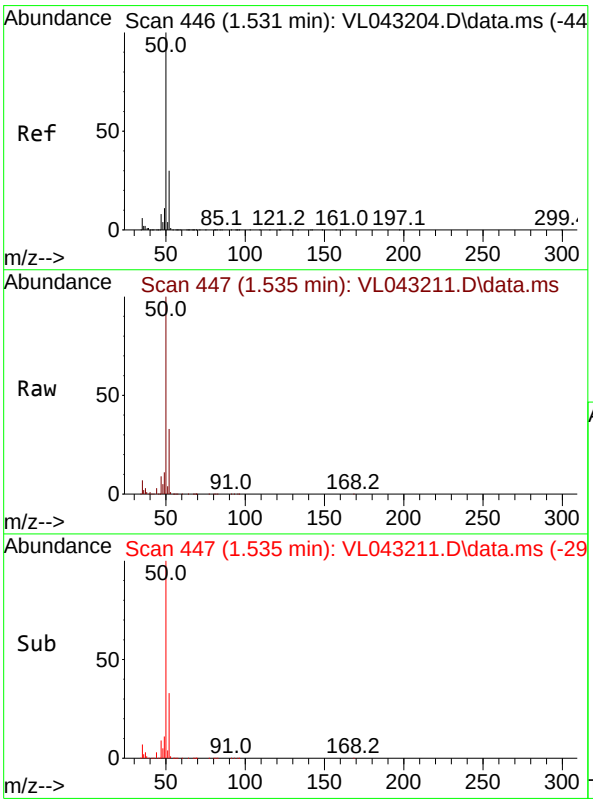
#3
Chlorodifluoromethane
Concen: 9.199 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 51 Resp: 124858

Ion	Ratio	Lower	Upper
51	100		
67	19.6	14.9	22.3

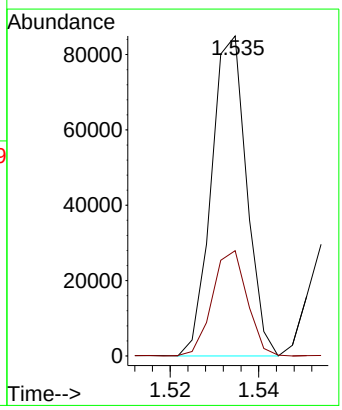


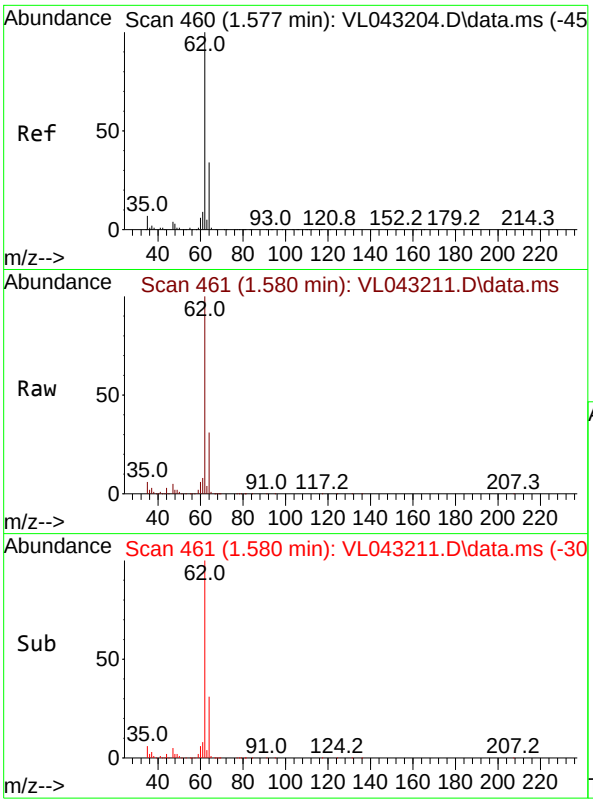


#4
Chloromethane
Concen: 9.090 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 50 Resp: 46906

Ion	Ratio	Lower	Upper
50	100		
52	32.8	24.1	36.1



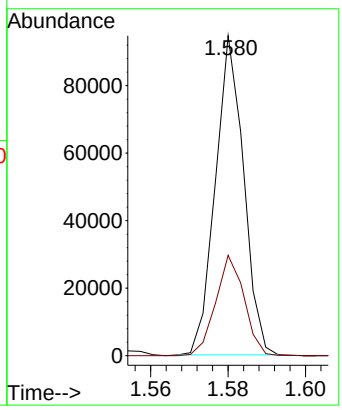


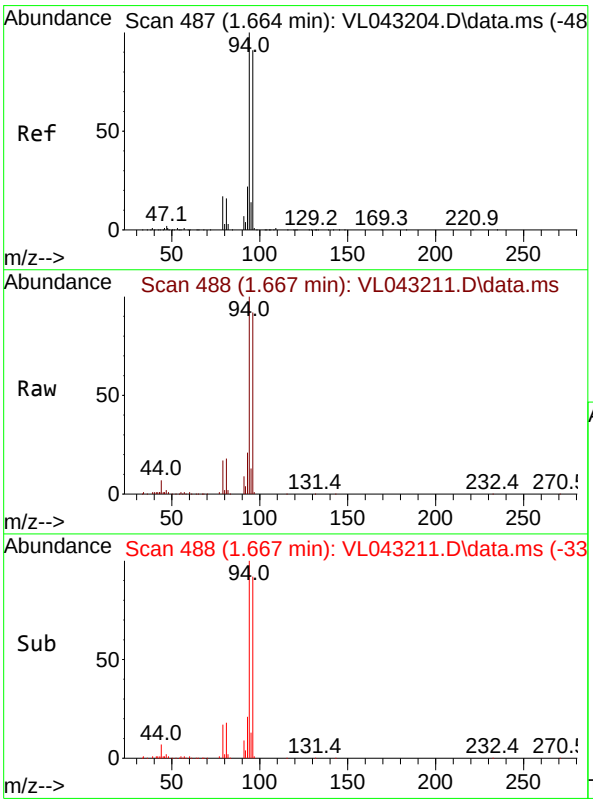
#5
Vinyl Chloride
Concen: 8.493 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 62 Resp: 47932

Ion	Ratio	Lower	Upper
62	100		
64	31.4	27.3	40.9

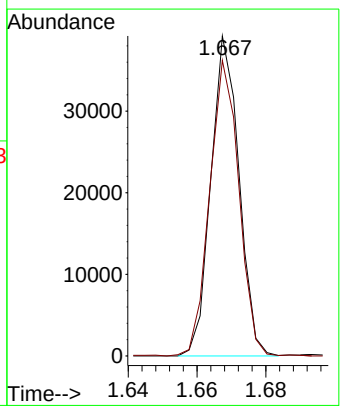


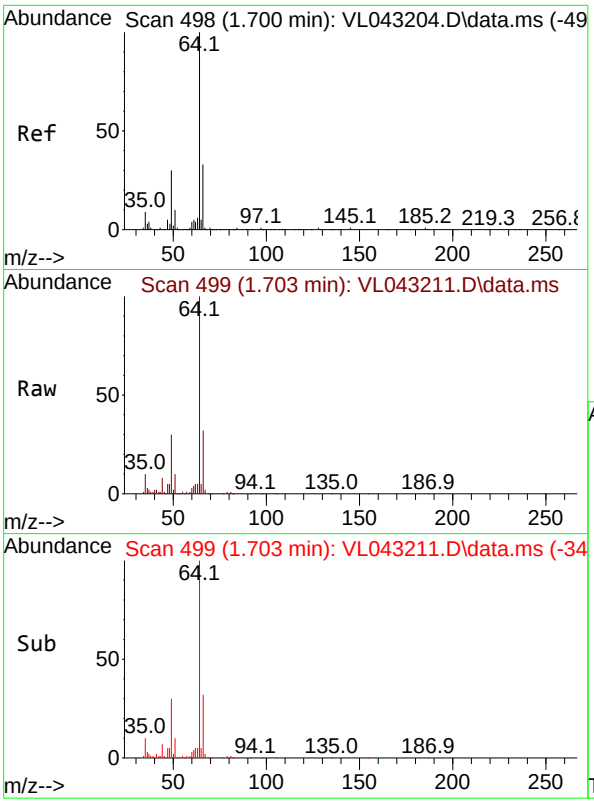


#6
Bromomethane
Concen: 8.126 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 94 Resp: 22230

Ion	Ratio	Lower	Upper
94	100		
96	92.2	72.9	109.3



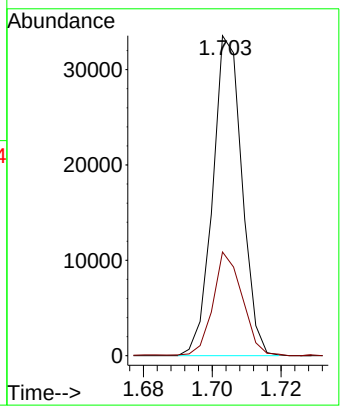


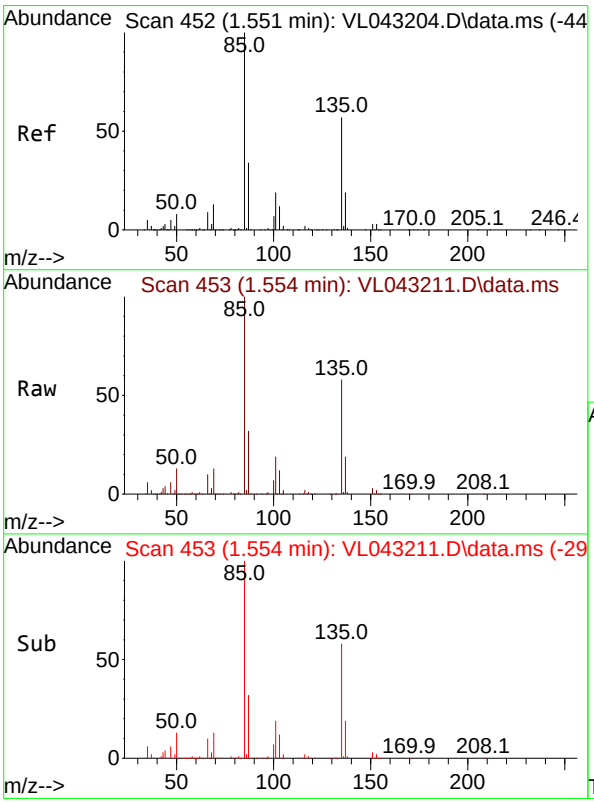
#7
Chloroethane
Concen: 9.033 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 64 Resp: 19854

Ion	Ratio	Lower	Upper
64	100		
66	32.4	26.8	40.2

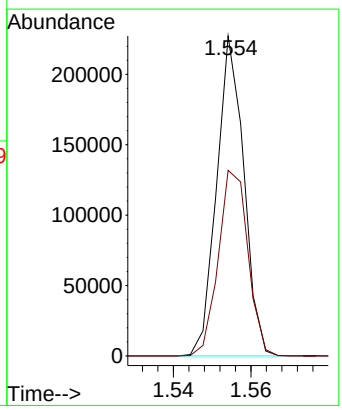


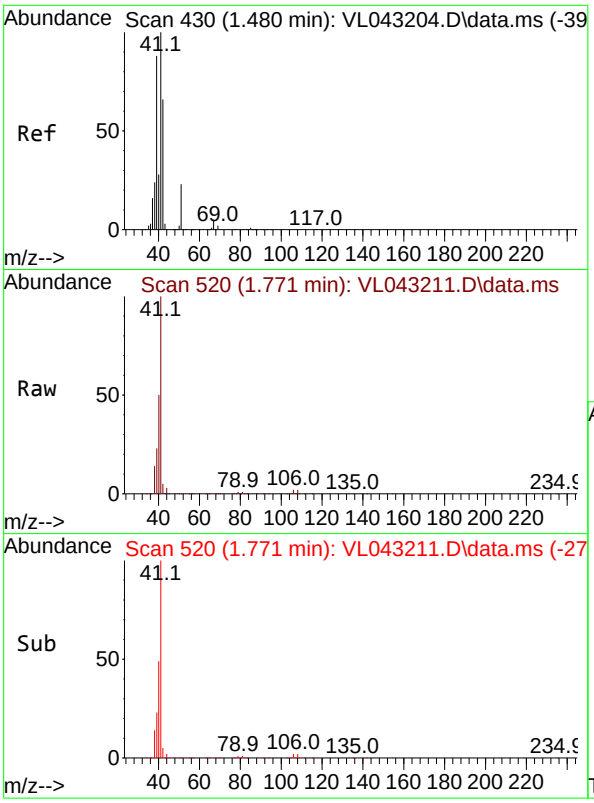


#8
Dichlorotetrafluoroethane
Concen: 9.632 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 85 Resp: 110587

Ion	Ratio	Lower	Upper
85	100		
135	63.5	52.6	79.0



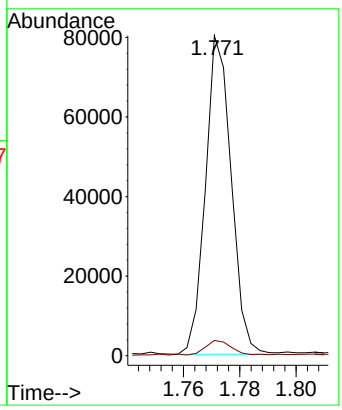


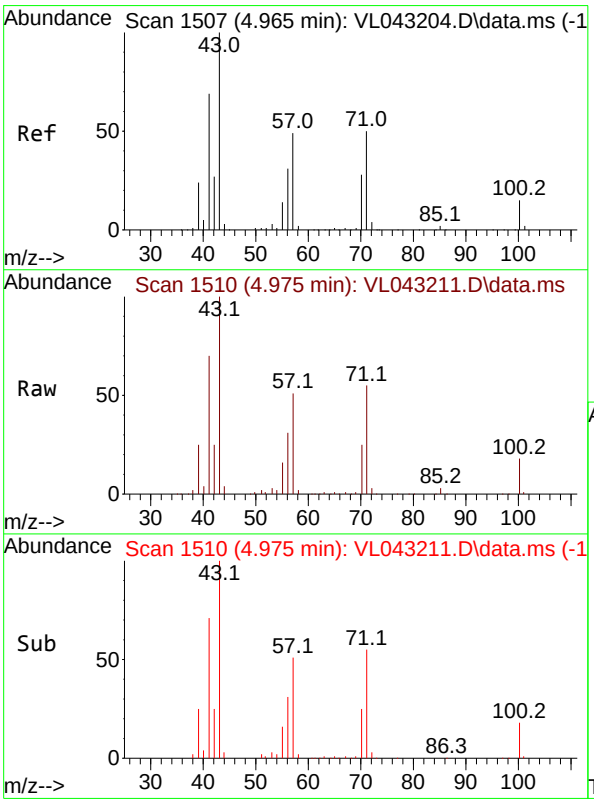
#9
Propene
Concen: 8.817 ppbv
RT: 1.771 min Scan# 5
Delta R.T. 0.291 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 41 Resp: 50816

Ion	Ratio	Lower	Upper
41	100		
42	4.7	3.7	5.5

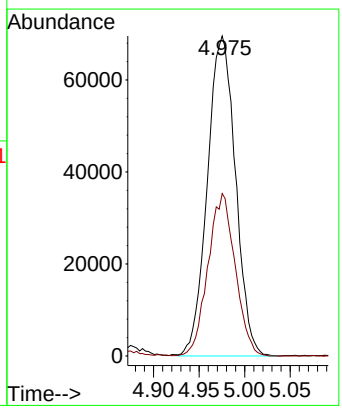


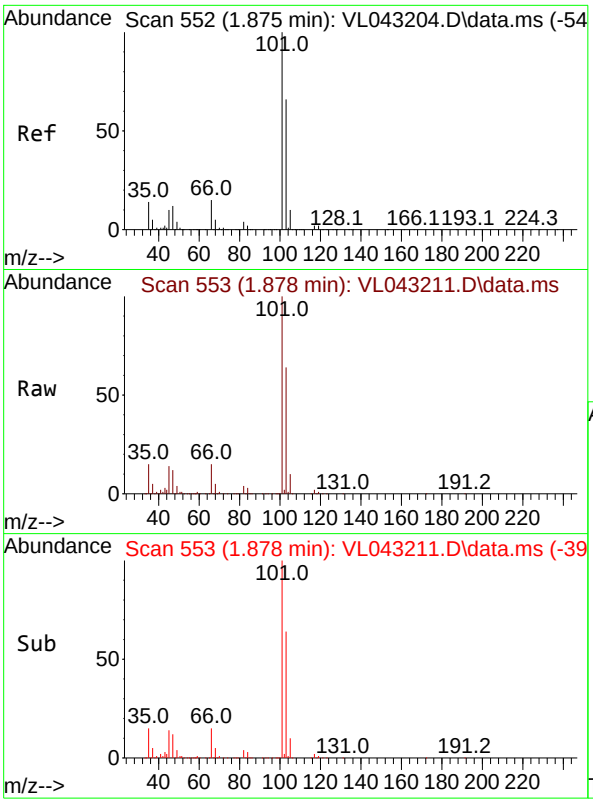


#10
Heptane
Concen: 8.698 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 149202

Ion	Ratio	Lower	Upper
43	100		
57	49.1	39.7	59.5



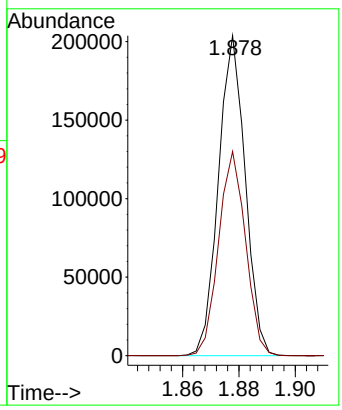


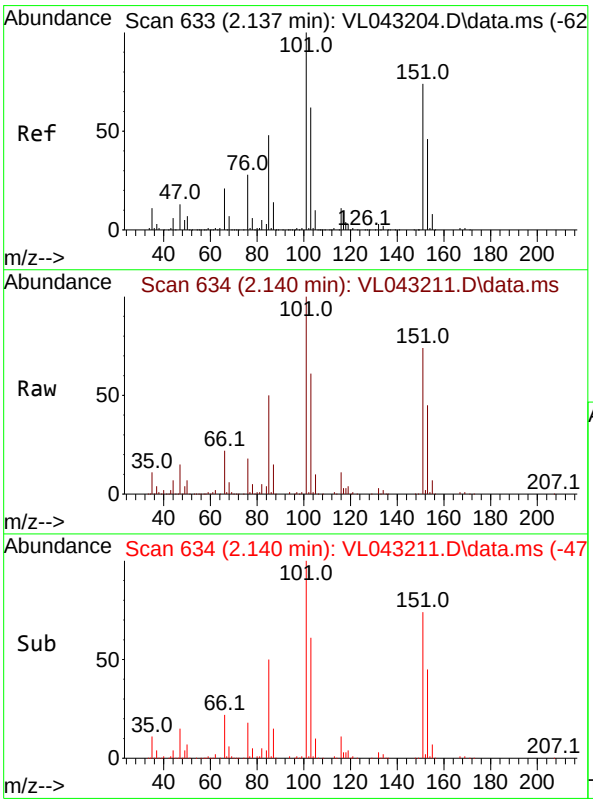
#11
Trichlorofluoromethane
Concen: 10.077 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:101 Resp: 134746

Ion	Ratio	Lower	Upper
101	100		
103	63.8	52.6	79.0

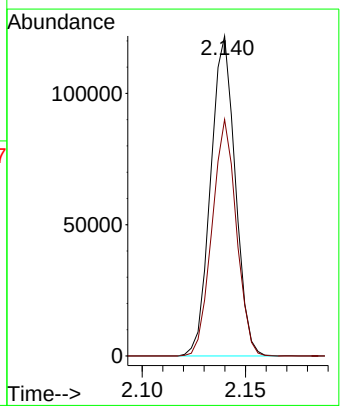


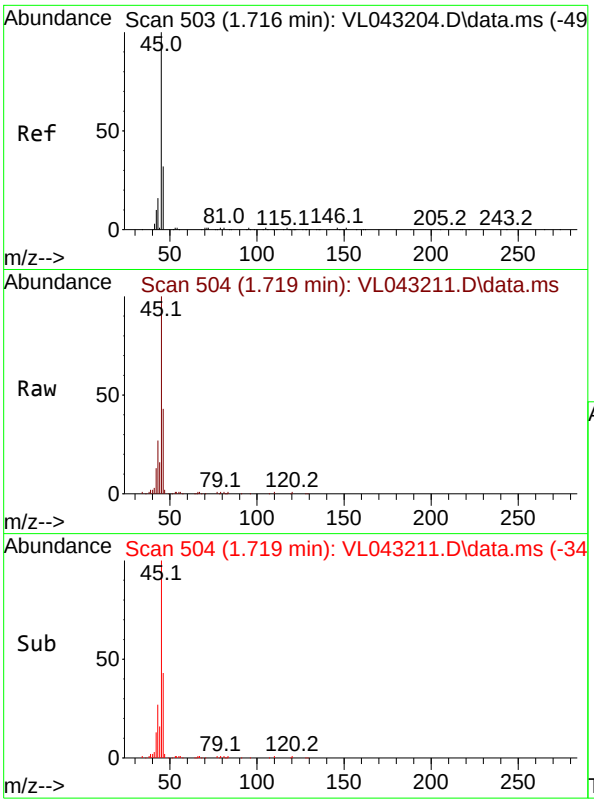


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.673 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:101 Resp: 100984

Ion	Ratio	Lower	Upper
101	100		
151	73.1	59.2	88.8



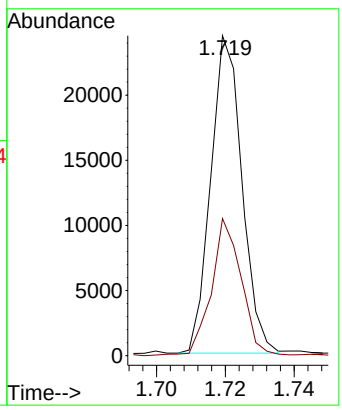


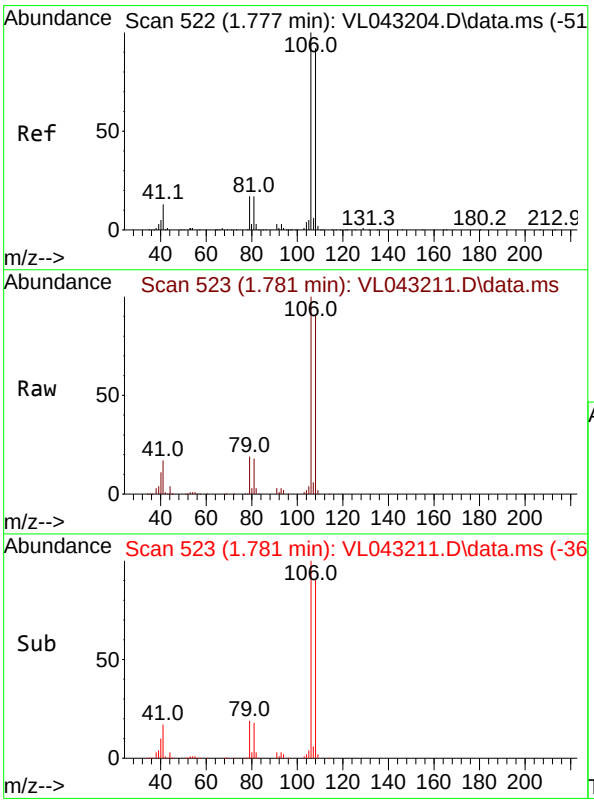
#13
Ethanol
Concen: 7.584 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 45 Resp: 15371

Ion	Ratio	Lower	Upper
45	100		
46	42.2	15.0	59.8

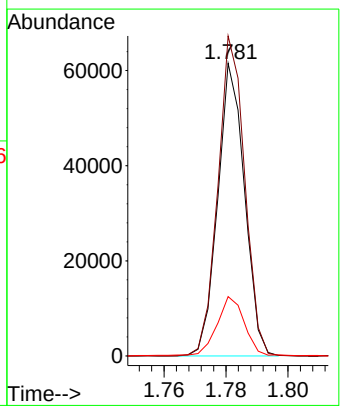


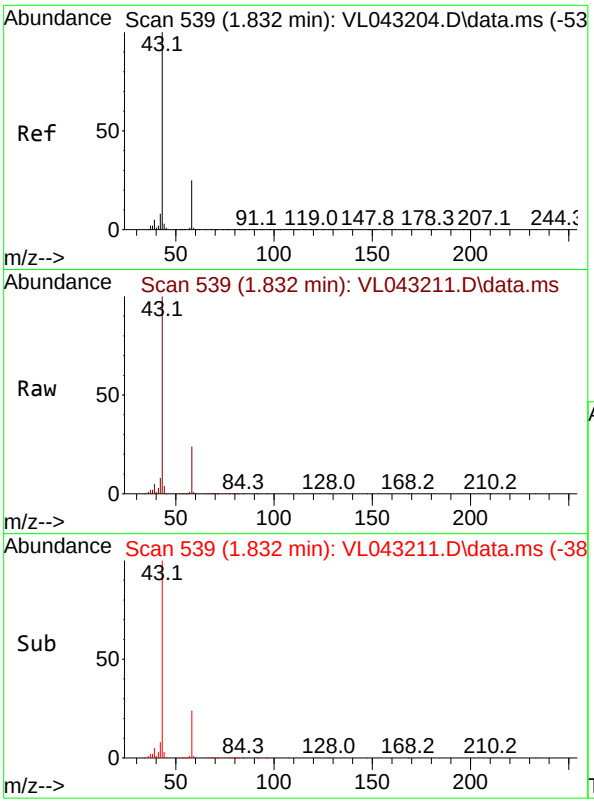


#14
Bromoethene
Concen: 9.240 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:108 Resp: 36979

Ion	Ratio	Lower	Upper
108	100		
106	109.3	88.9	133.3
79	21.9	16.5	24.7



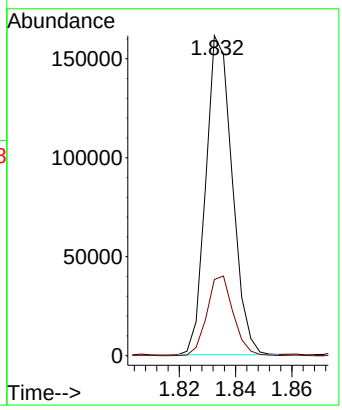


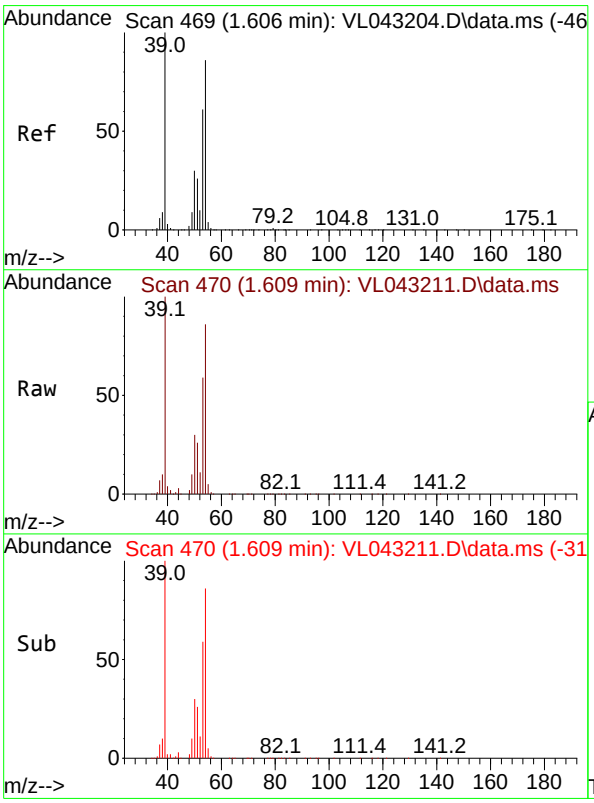
#15
Acetone
Concen: 7.711 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 43 Resp: 104830

Ion	Ratio	Lower	Upper
43	100		
58	25.2	20.7	31.1

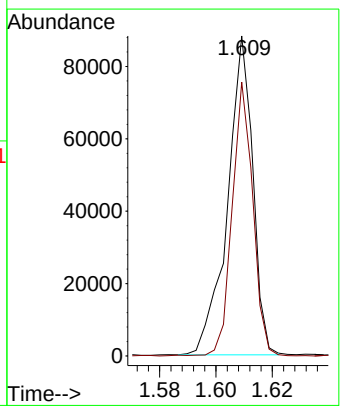


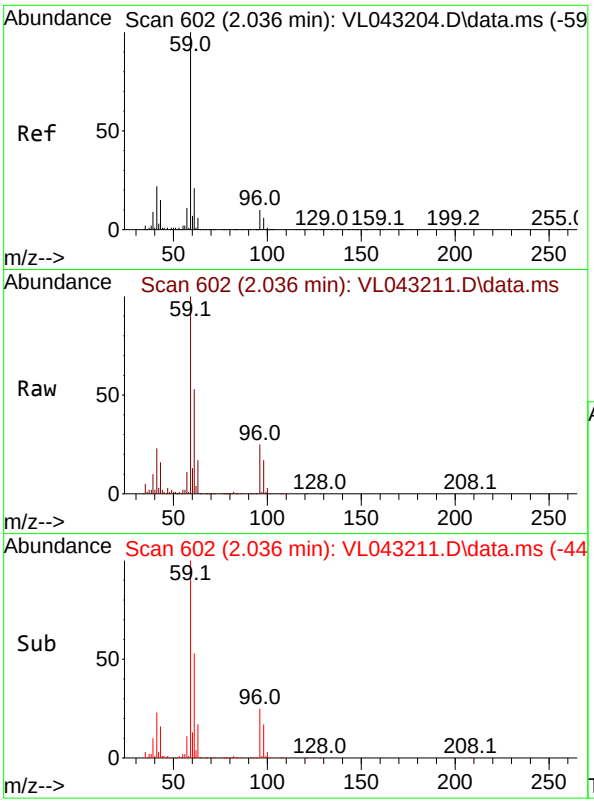


#16
1,3-Butadiene
Concen: 9.041 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 39 Resp: 54795

Ion	Ratio	Lower	Upper
39	100		
54	71.3	59.4	89.2



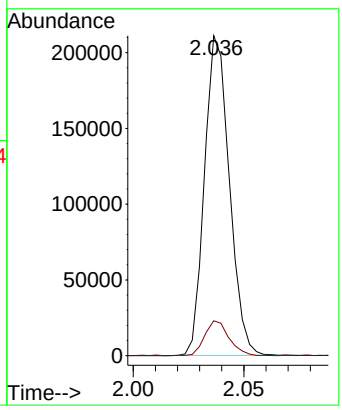


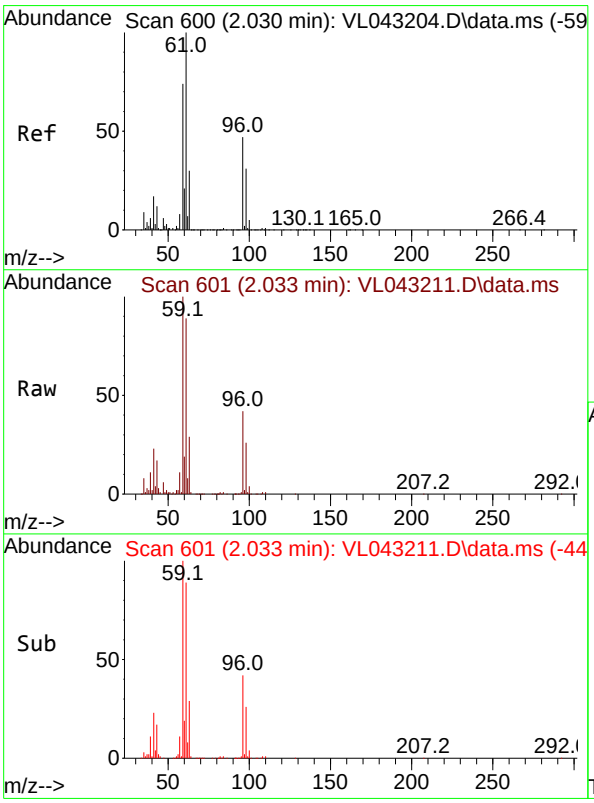
#17
tert-Butyl alcohol
Concen: 9.245 ppbv
RT: 2.036 min Scan# 6(
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 59 Resp: 164987

Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.0	13.4

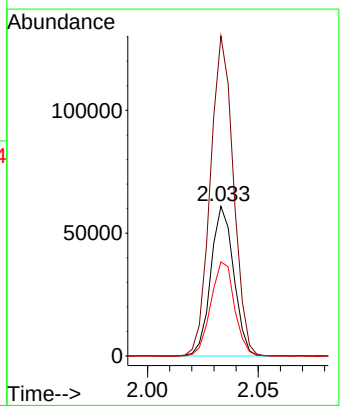


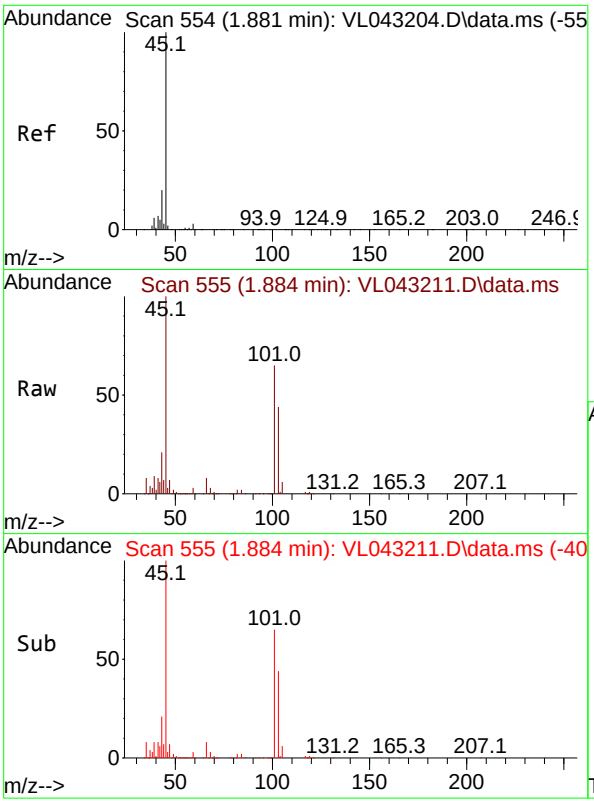


#18
1,1-Dichloroethene
Concen: 9.017 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 96 Resp: 43833

Ion	Ratio	Lower	Upper
96	100		
61	214.0	170.6	255.8
98	62.9	52.2	78.4



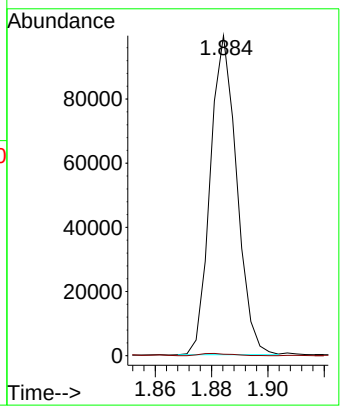


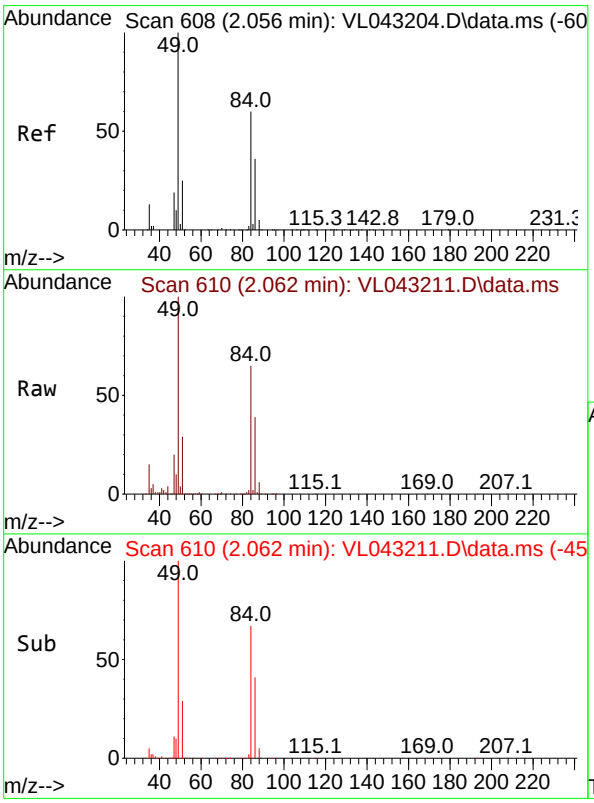
#19
Isopropyl Alcohol
Concen: 8.431 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 45 Resp: 64772

Ion	Ratio	Lower	Upper
45	100		
58	40.8	31.3	46.9

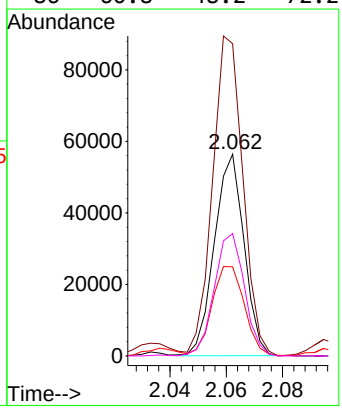


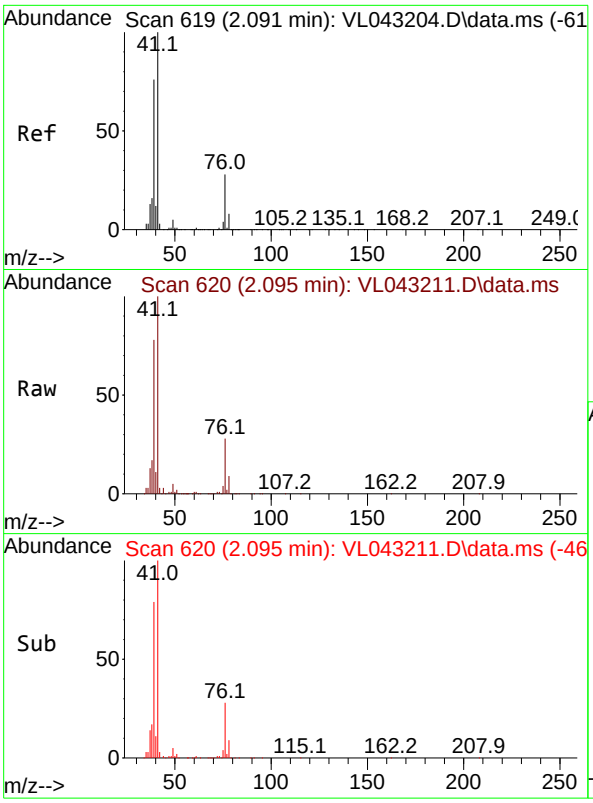


#20
Methylene Chloride
Concen: 10.323 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 84 Resp: 41254

Ion	Ratio	Lower	Upper
84	100		
49	155.1	132.9	199.3
51	43.9	34.8	52.2
86	60.8	48.2	72.2



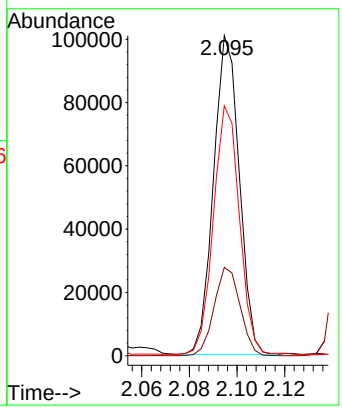


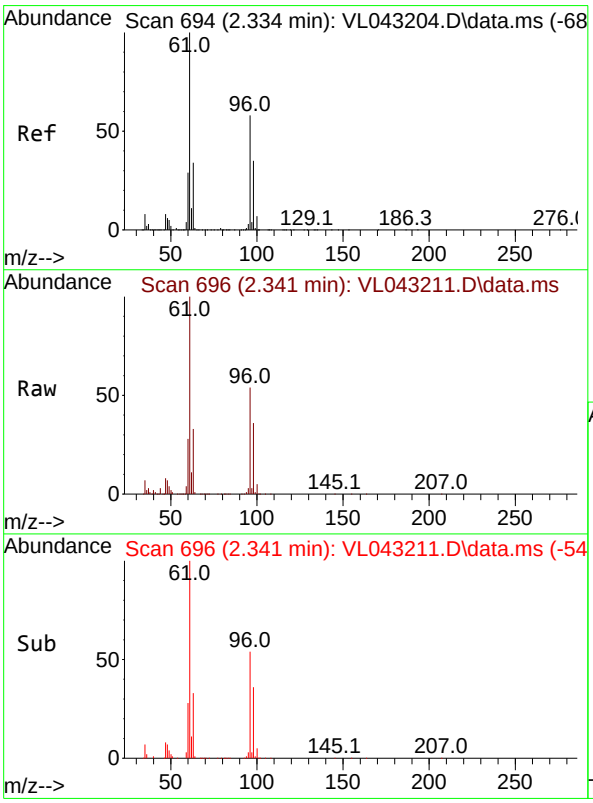
#21
Allyl Chloride
Concen: 8.256 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 41 Resp: 75516

Ion	Ratio	Lower	Upper
41	100		
76	27.9	22.1	33.1
39	79.3	61.0	91.4

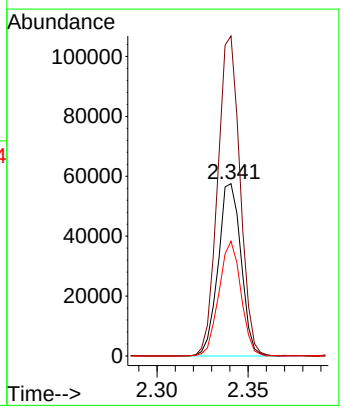


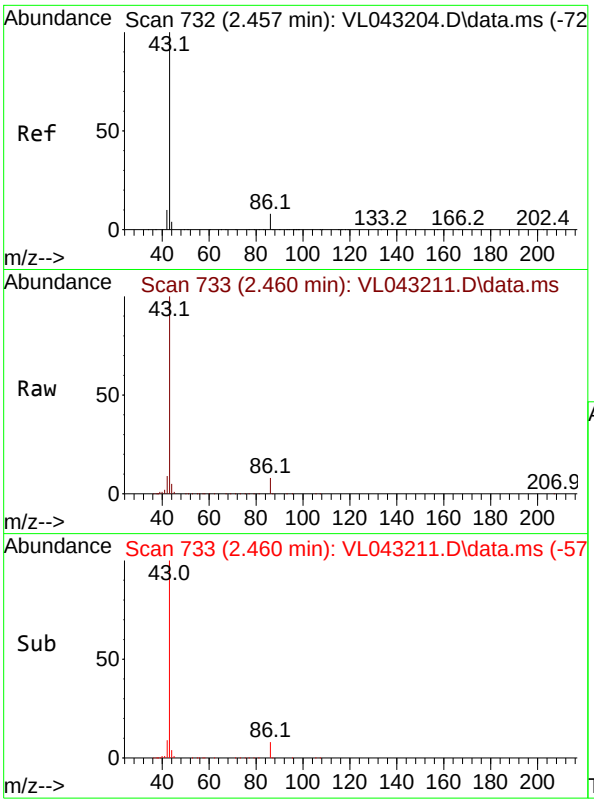


#22
trans-1,2-Dichloroethene
Concen: 9.041 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 96 Resp: 50228

Ion	Ratio	Lower	Upper
96	100		
61	185.7	139.0	208.6
98	66.6	49.4	74.2



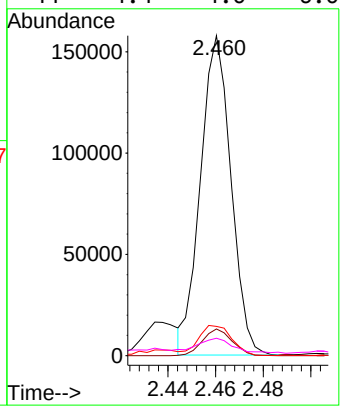


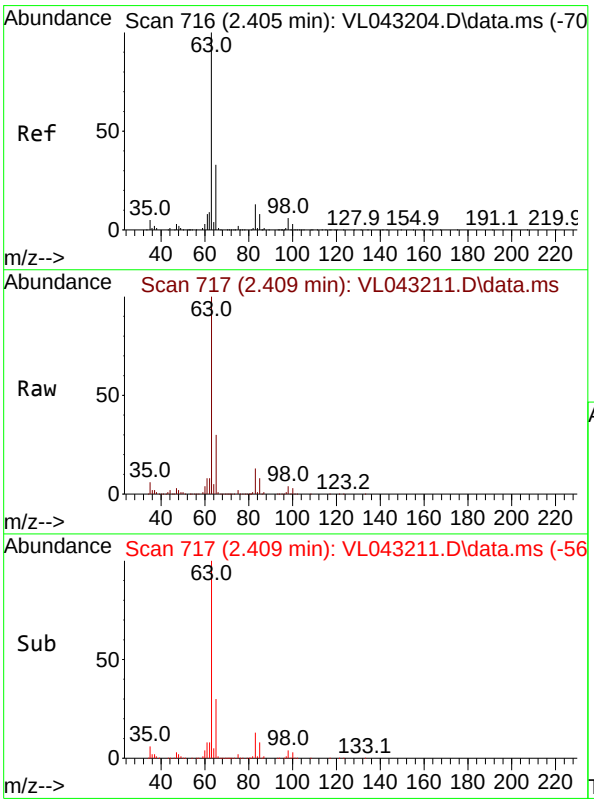
#23
Vinyl Acetate
Concen: 8.539 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 43 Resp: 140156

Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.2	9.2
42	9.1	8.0	12.0
44	4.4	4.0	6.0

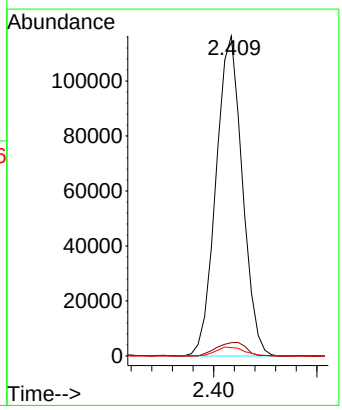


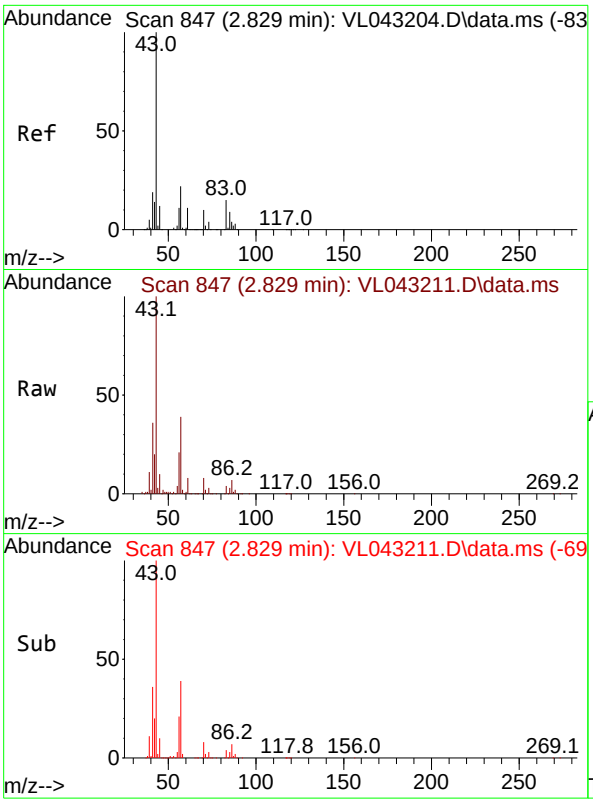


#24
1,1-Dichloroethane
Concen: 9.622 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 63 Resp: 103187

Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.8	8.4
100	2.6	1.3	3.9



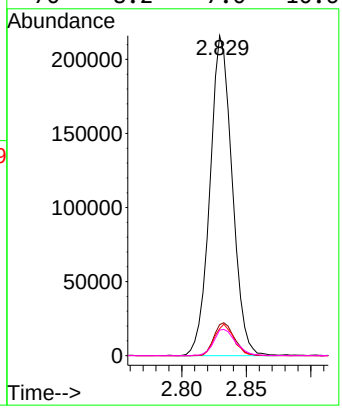


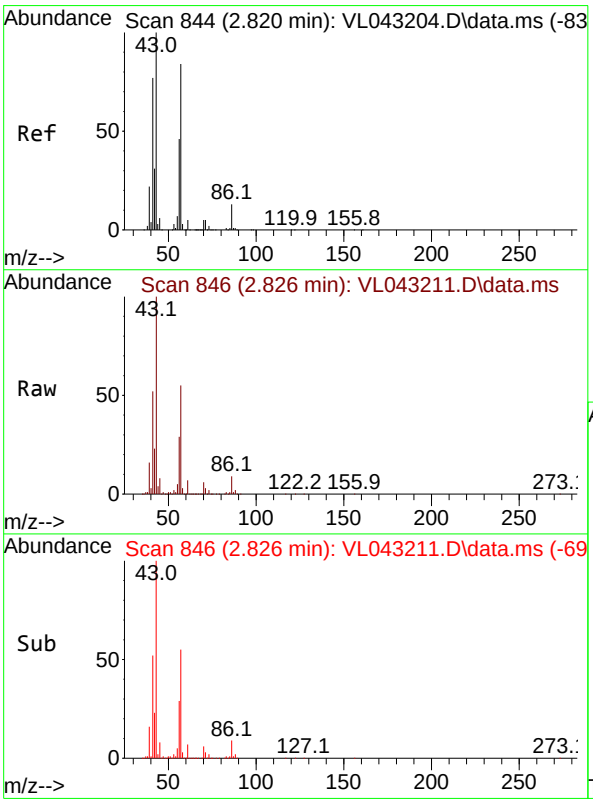
#25
Ethyl Acetate
Concen: 8.820 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 43 Resp: 258609

Ion	Ratio	Lower	Upper
43	100		
45	9.6	8.1	12.1
61	8.5	7.0	10.4
70	8.2	7.0	10.6

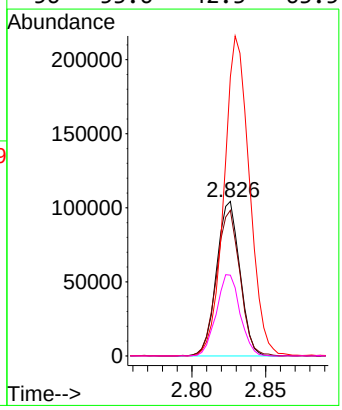


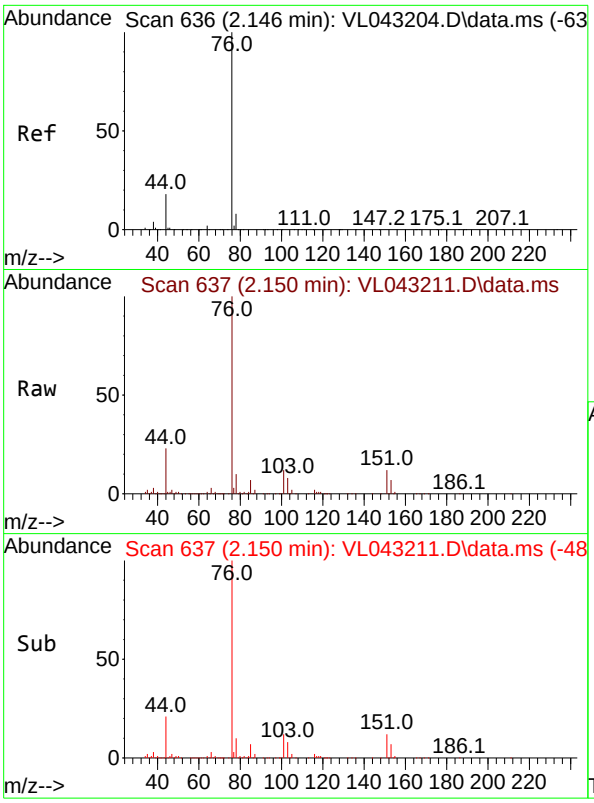


#26
Hexane
Concen: 8.892 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 57 Resp: 114312

Ion	Ratio	Lower	Upper
57	100		
41	96.0	74.6	111.8
43	226.4	179.0	268.4
56	53.6	42.3	63.5



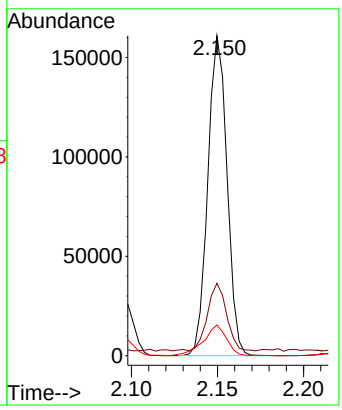


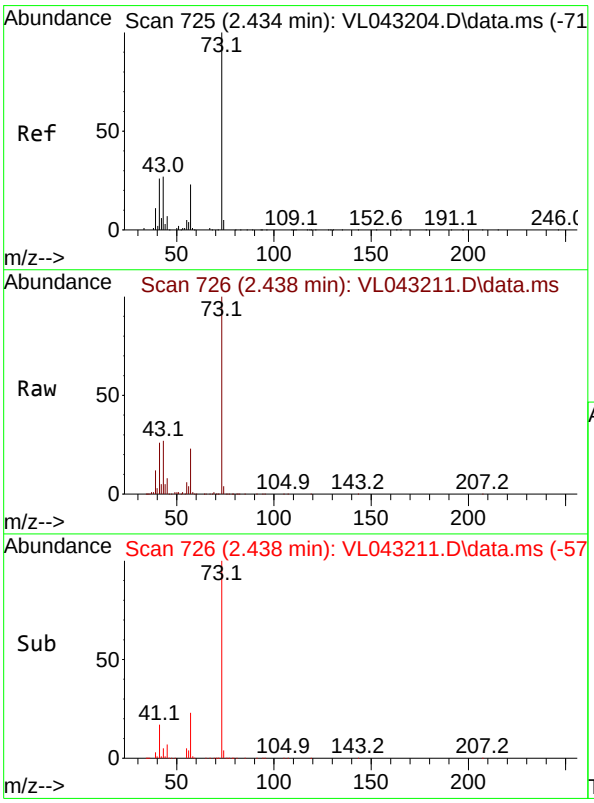
#27
Carbon Disulfide
Concen: 9.528 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 76 Resp: 125048

Ion	Ratio	Lower	Upper
76	100		
44	21.9	16.1	24.1
78	11.6	9.6	14.4

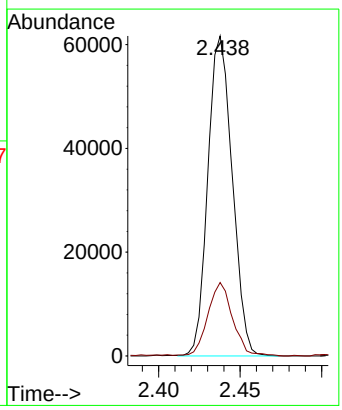


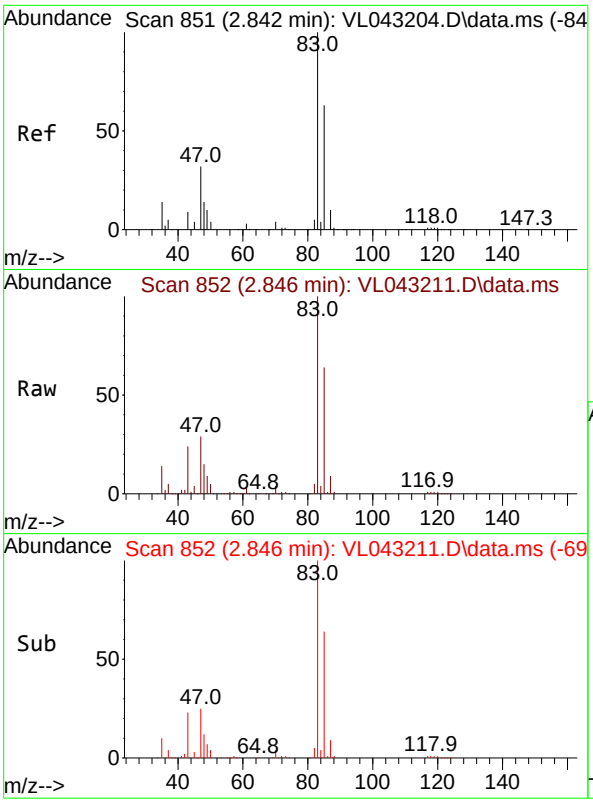


#28
Methyl tert-Butyl Ether
Concen: 10.171 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 73 Resp: 64183

Ion	Ratio	Lower	Upper
73	100		
57	23.6	19.8	29.8



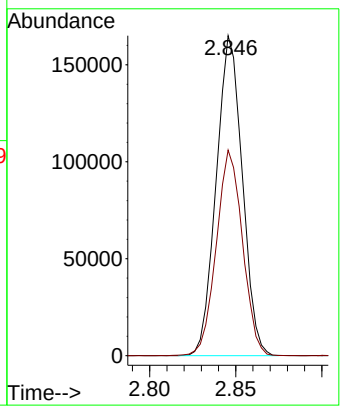


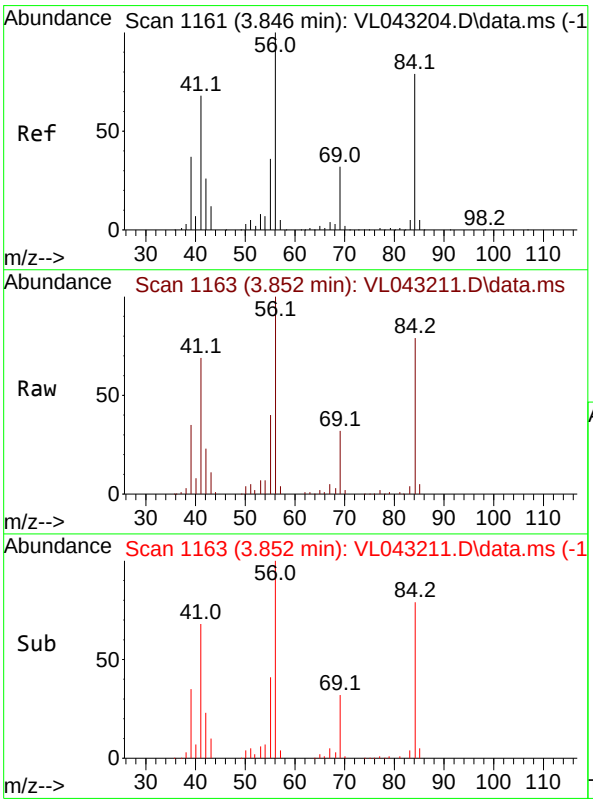
#29
Chloroform
Concen: 9.521 ppbv
RT: 2.846 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 83 Resp: 173977

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.5	75.7

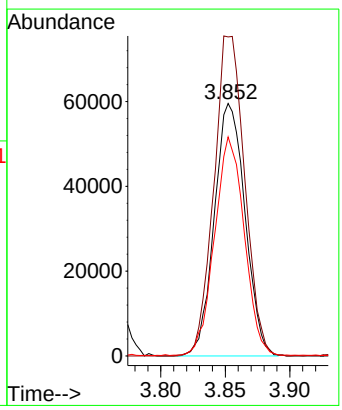


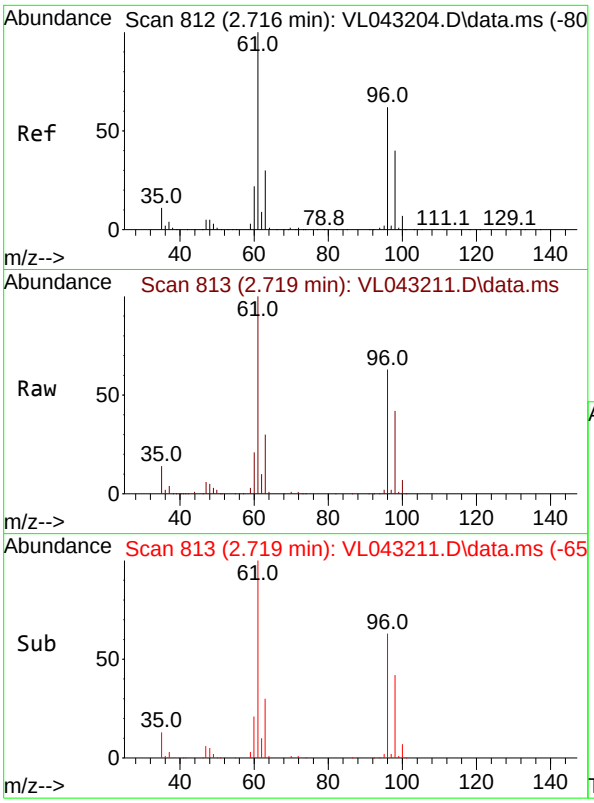


#30
Cyclohexane
Concen: 9.148 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 84 Resp: 98598

Ion	Ratio	Lower	Upper
84	100		
56	127.4	104.7	157.1
41	84.5	69.0	103.6



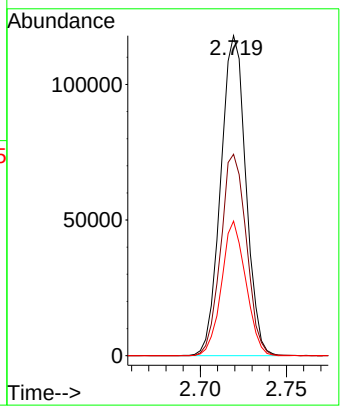


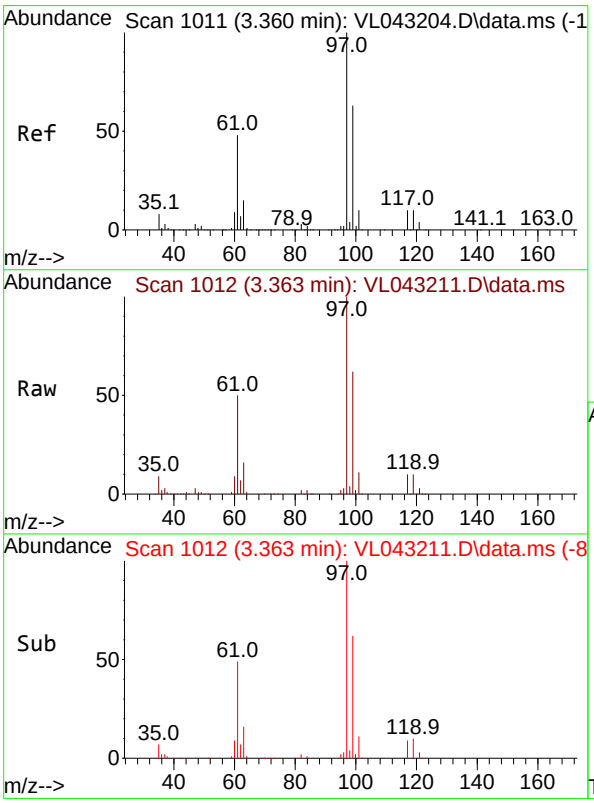
#31
cis-1,2-Dichloroethene
Concen: 9.379 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 61 Resp: 119843

Ion	Ratio	Lower	Upper
61	100		
96	62.9	49.3	73.9
98	42.0	32.1	48.1

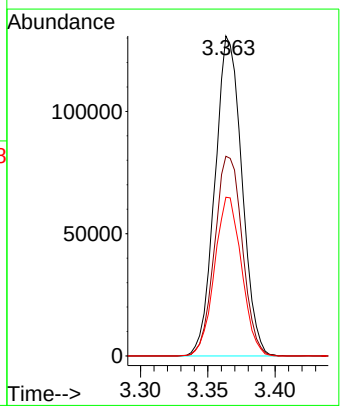


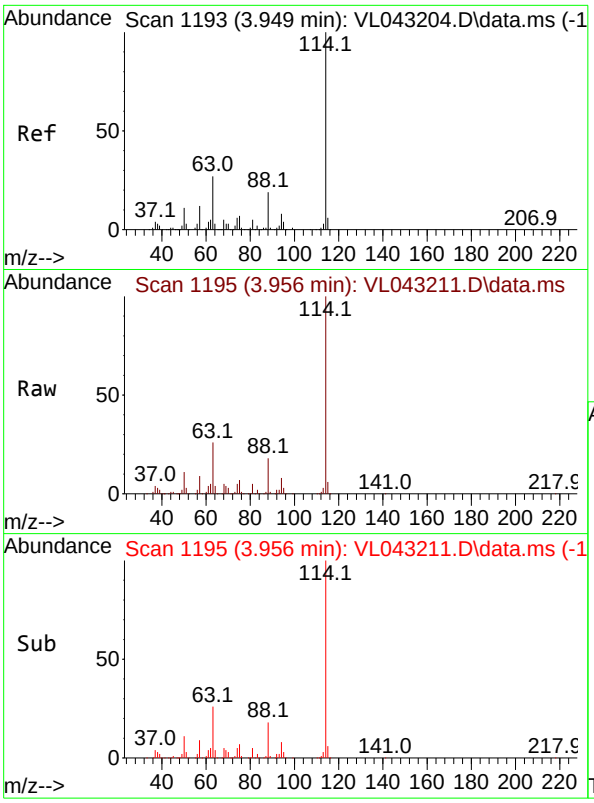


#32
1,1,1-Trichloroethane
Concen: 9.358 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 97 Resp: 182262

Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.3	75.5
61	49.9	38.9	58.3



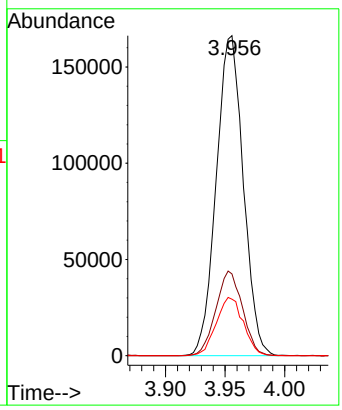


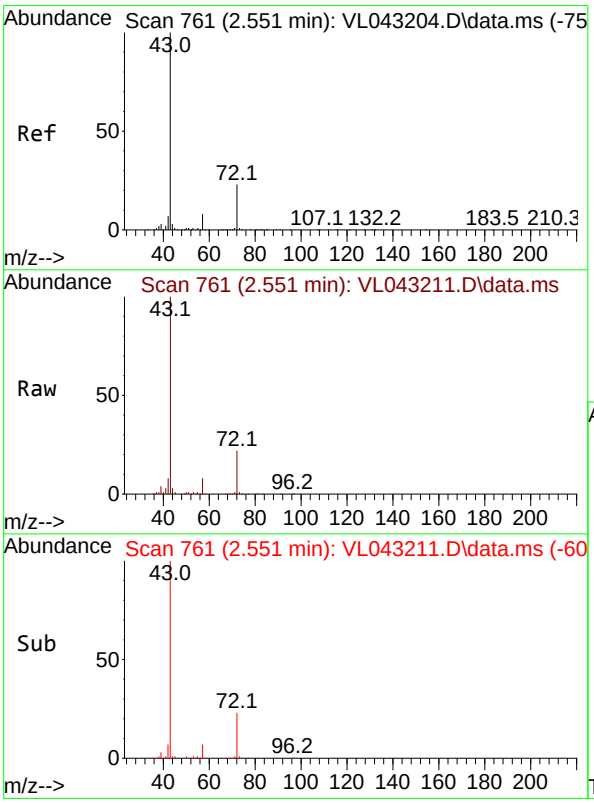
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:114 Resp: 261914

Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.0	31.6
88	18.3	14.9	22.3

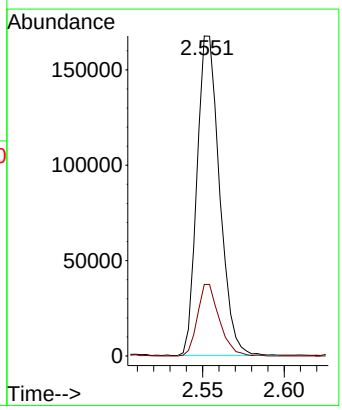


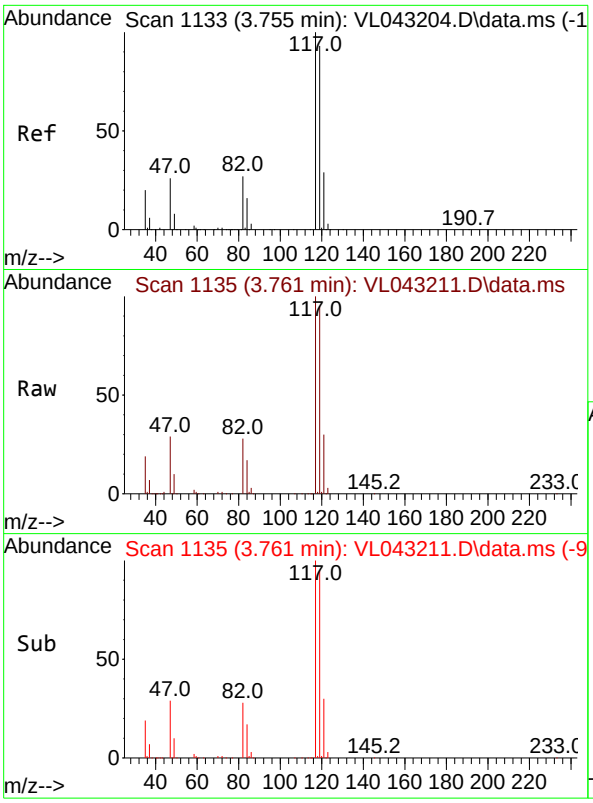


#34
2-Butanone
Concen: 8.707 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 160977

Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.1	27.1



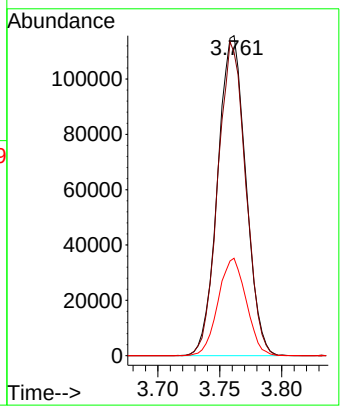


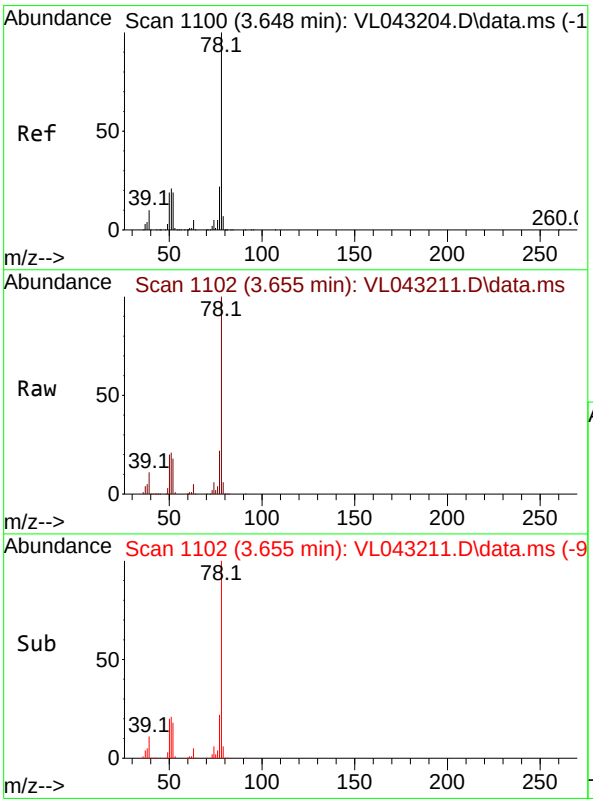
#35
Carbon Tetrachloride
Concen: 9.200 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:117 Resp: 182902

Ion	Ratio	Lower	Upper
117	100		
119	94.7	74.6	112.0
121	30.4	23.2	34.8

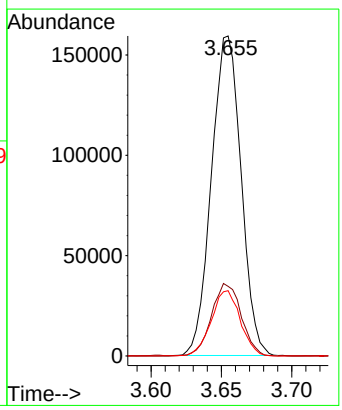


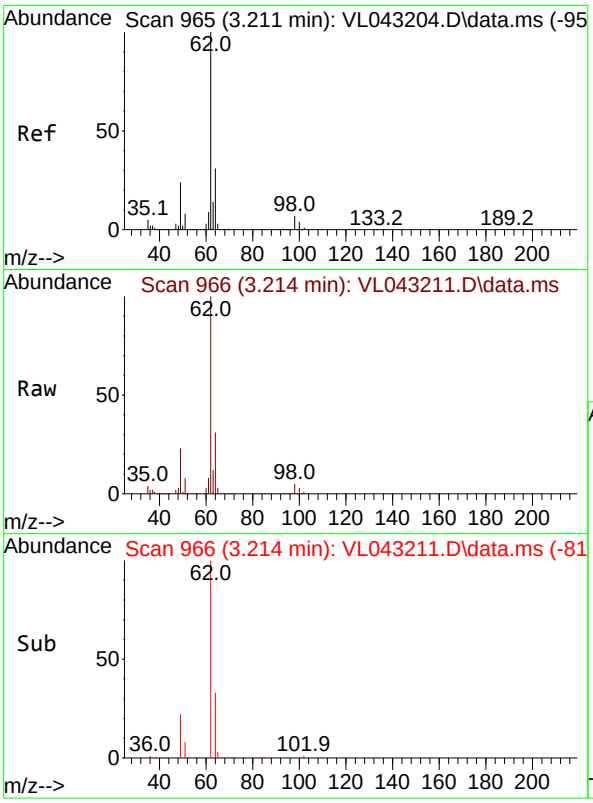


#36
Benzene
Concen: 9.293 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 78 Resp: 233094

Ion	Ratio	Lower	Upper
78	100		
77	21.8	17.5	26.3
50	20.4	15.5	23.3



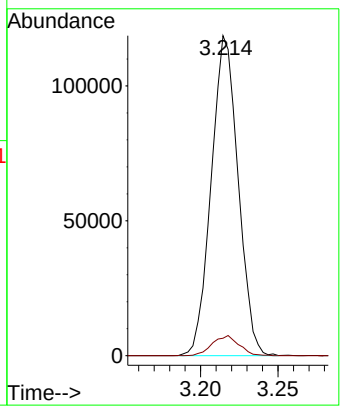


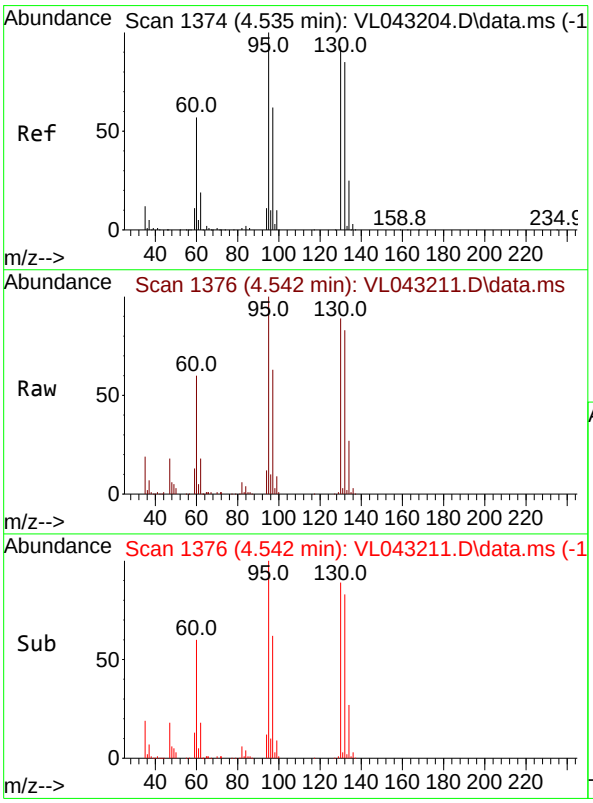
#37
1,2-Dichloroethane
Concen: 9.772 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 62 Resp: 143363

Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.5	8.3

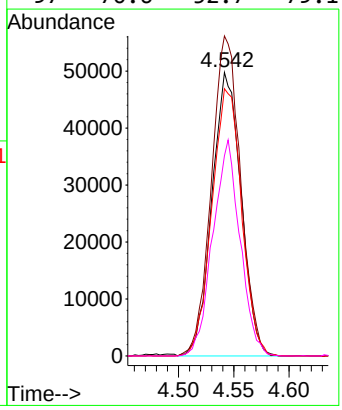


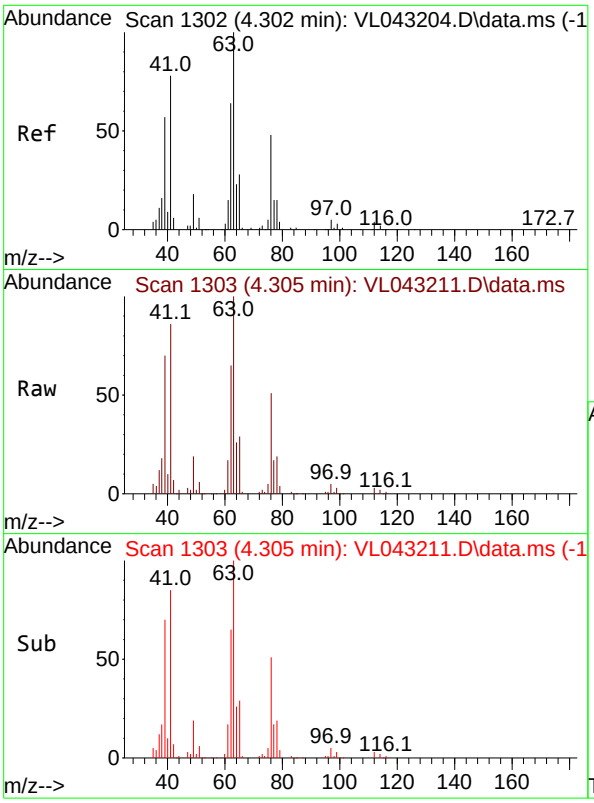


#38
Trichloroethene
Concen: 9.272 ppbv
RT: 4.542 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:130 Resp: 90993

Ion	Ratio	Lower	Upper
130	100		
95	112.7	85.7	128.5
132	94.1	73.4	110.0
97	70.6	52.7	79.1



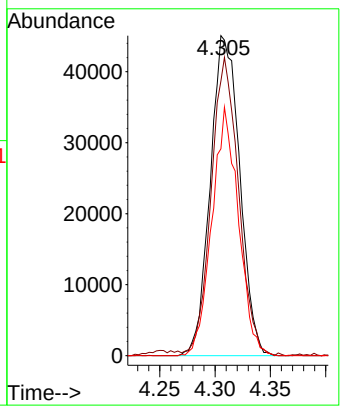


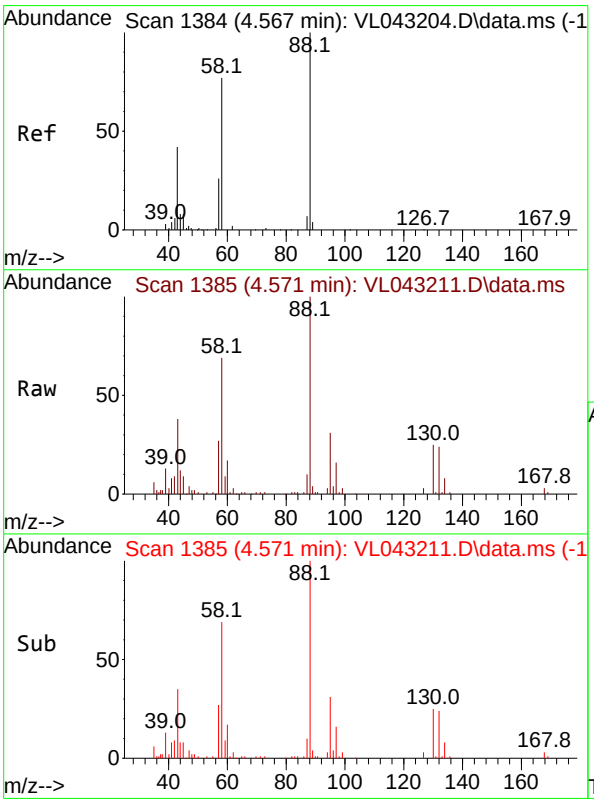
#39
1,2-Dichloropropane
Concen: 9.086 ppbv
RT: 4.305 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 63 Resp: 83416

Ion	Ratio	Lower	Upper
63	100		
41	85.0	62.6	93.8
62	64.6	51.0	76.6

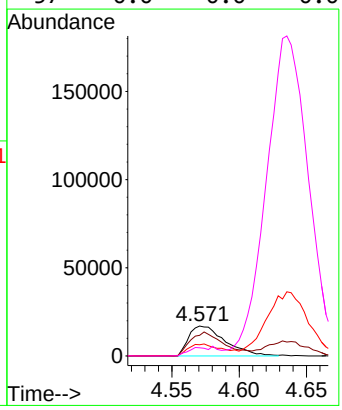


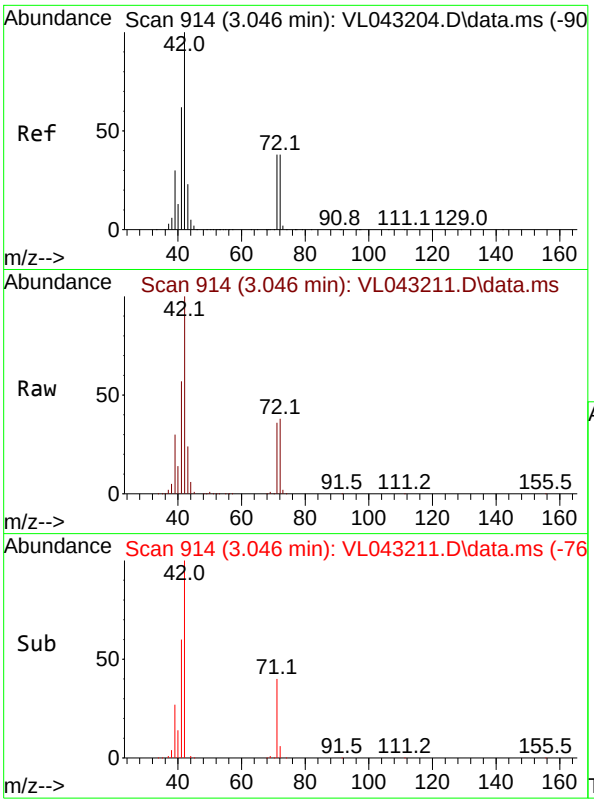


#40
1,4-Dioxane
Concen: 7.780 ppbv
RT: 4.571 min Scan# 1385
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 88 Resp: 32109

Ion	Ratio	Lower	Upper
88	100		
58	74.8	63.0	94.6
43	37.4	32.5	48.7
57	0.0	0.0	0.0



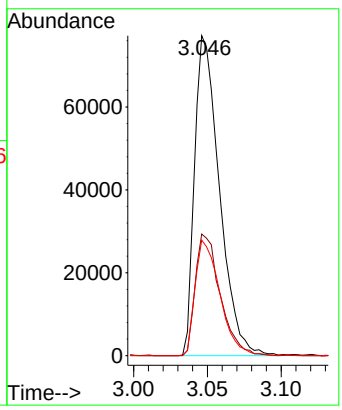


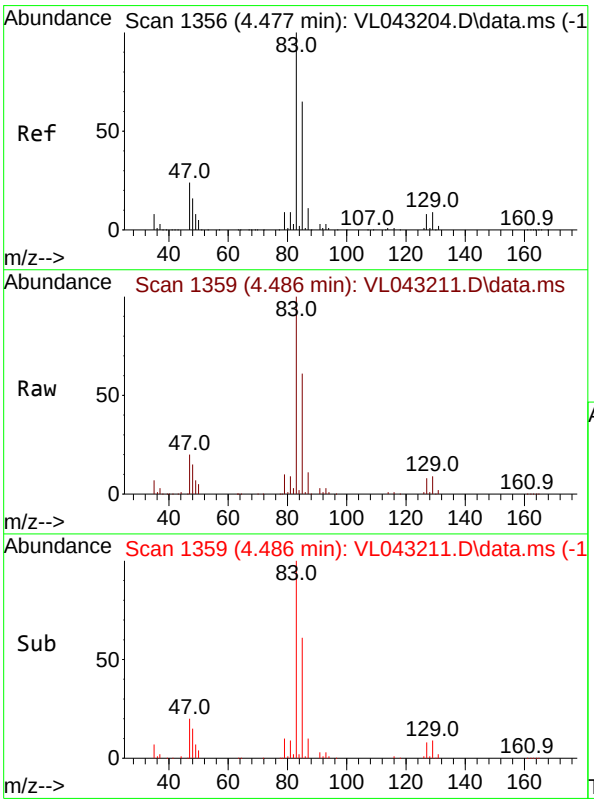
#41
Tetrahydrofuran
Concen: 8.891 ppbv
RT: 3.046 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 42 Resp: 90769

Ion	Ratio	Lower	Upper
42	100		
72	38.0	30.6	46.0
71	36.1	30.5	45.7

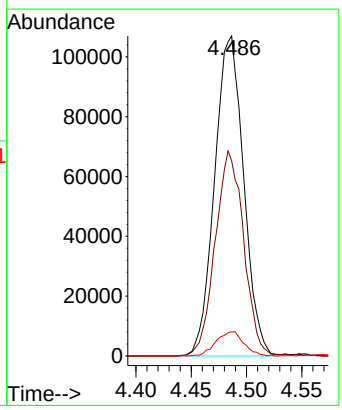


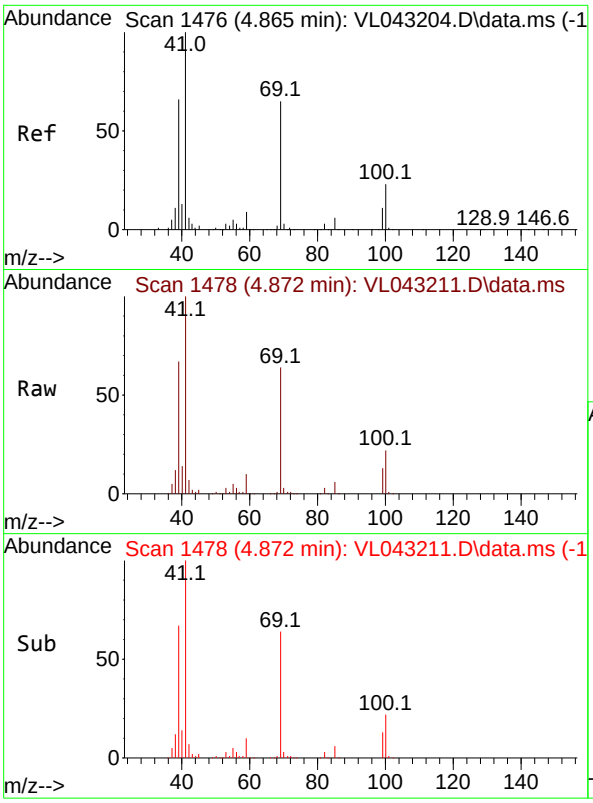


#42
Bromodichloromethane
Concen: 9.657 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 83 Resp: 195442

Ion	Ratio	Lower	Upper
83	100		
85	61.0	51.7	77.5
127	7.6	6.3	9.5



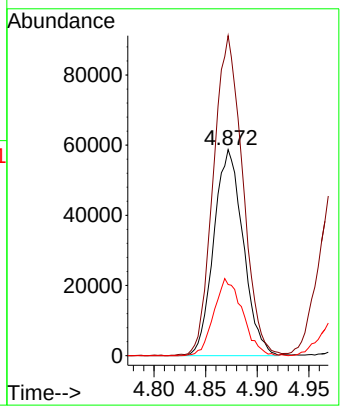


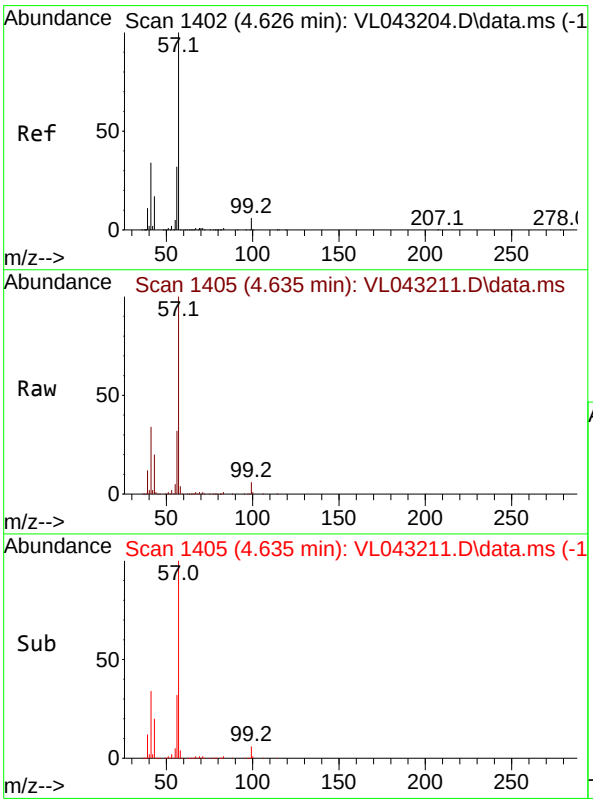
#43
Methyl Methacrylate
Concen: 8.737 ppbv
RT: 4.872 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 69 Resp: 116325

Ion	Ratio	Lower	Upper
69	100		
41	155.2	126.7	190.1
100	36.5	28.6	43.0

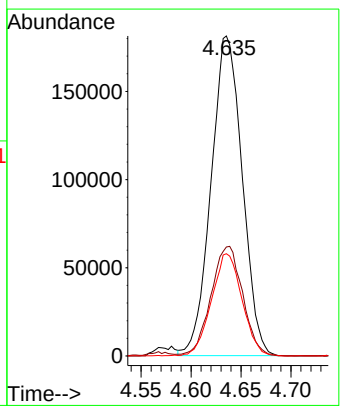


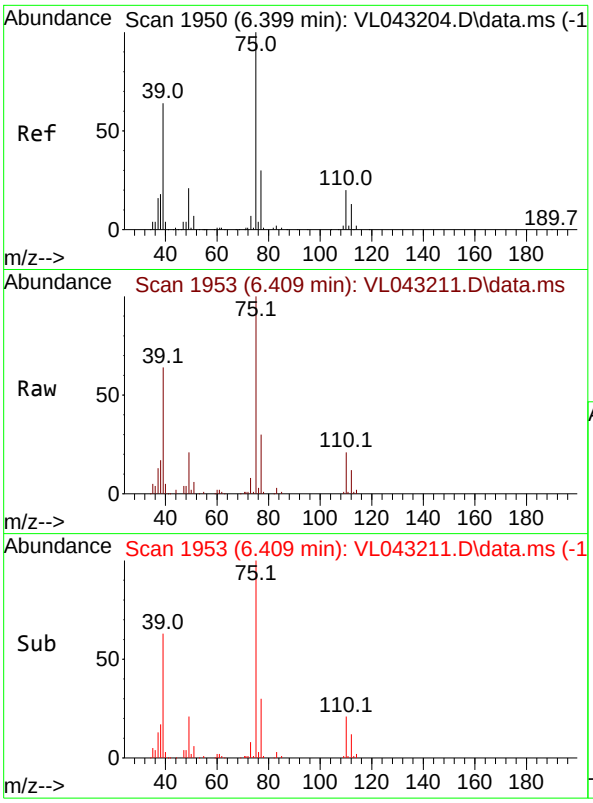


#44
2,2,4-Trimethylpentane
Concen: 9.133 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 57 Resp: 393438

Ion	Ratio	Lower	Upper
57	100		
41	35.8	28.0	42.0
56	31.5	25.6	38.4



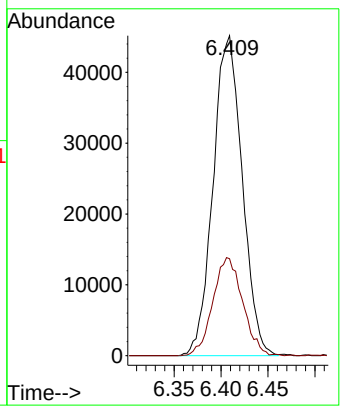


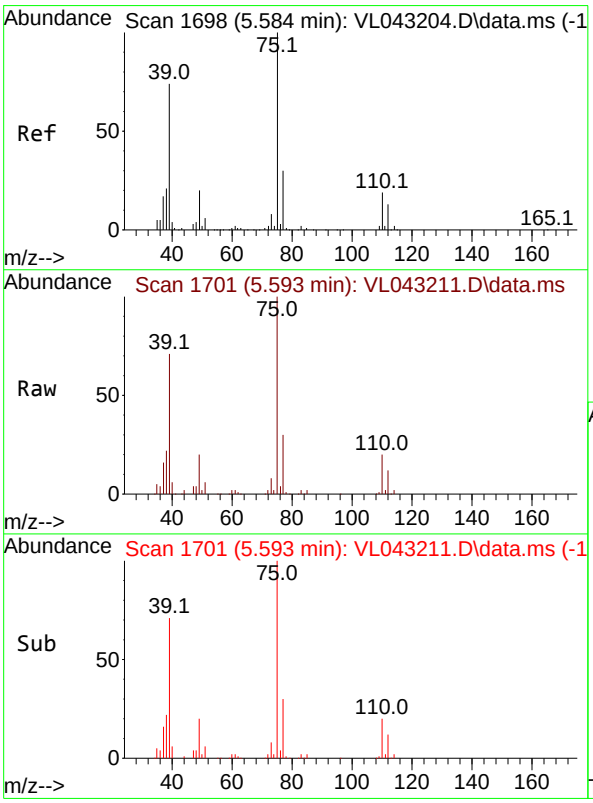
#45
t-1,3-Dichloropropene
Concen: 7.863 ppbv
RT: 6.409 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 75 Resp: 97587

Ion	Ratio	Lower	Upper
75	100		
77	30.3	24.3	36.5

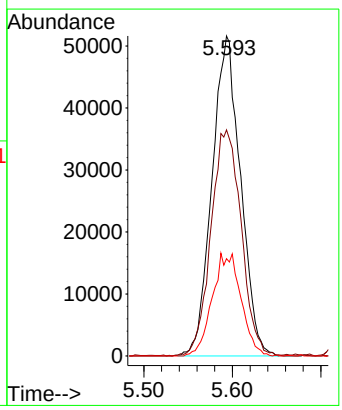


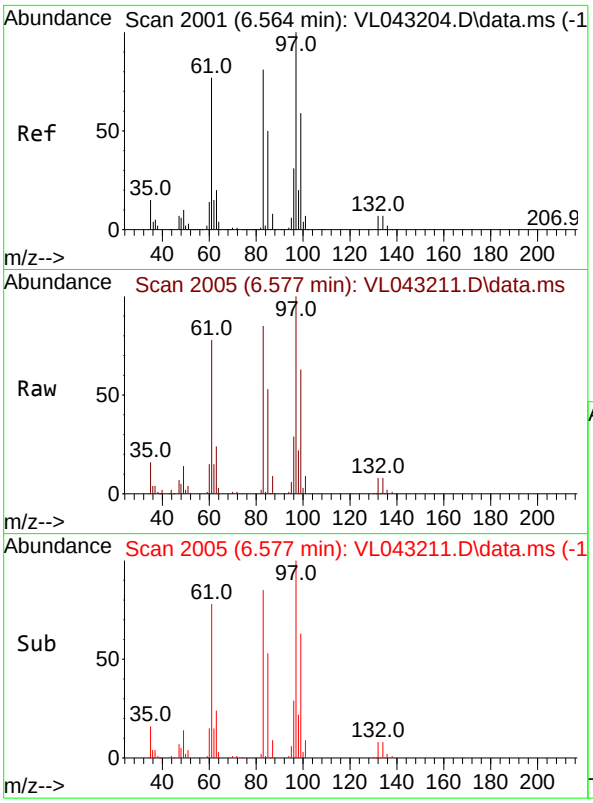


#46
cis-1,3-Dichloropropene
Concen: 7.924 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 75 Resp: 115476

Ion	Ratio	Lower	Upper
75	100		
39	70.4	59.1	88.7
77	30.4	24.2	36.2



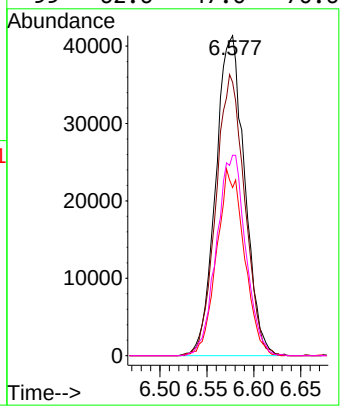


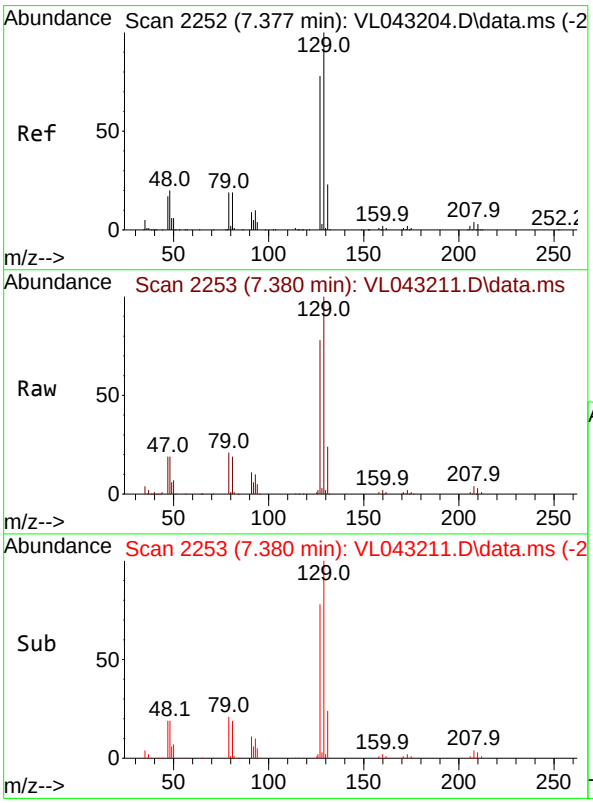
#47
1,1,2-Trichloroethane
Concen: 9.086 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 97 Resp: 88525

Ion	Ratio	Lower	Upper
97	100		
83	85.4	64.6	97.0
85	52.6	39.4	59.2
99	62.6	47.0	70.6

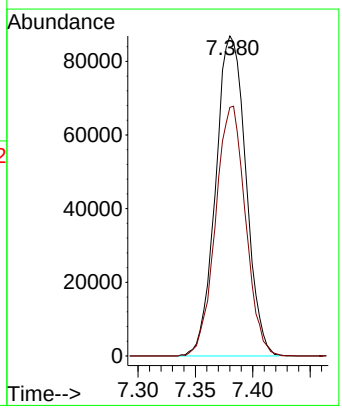


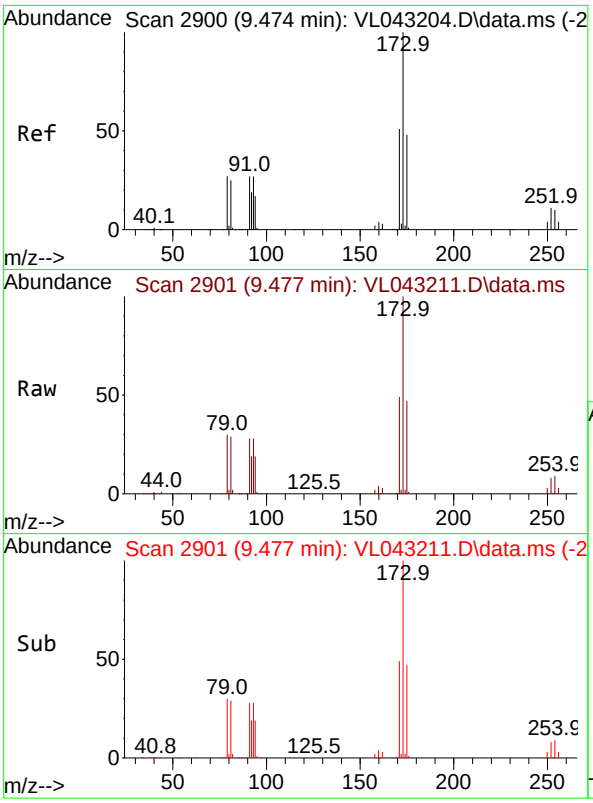


#48
Dibromochloromethane
Concen: 9.514 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:129 Resp: 159365

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.3	117.9



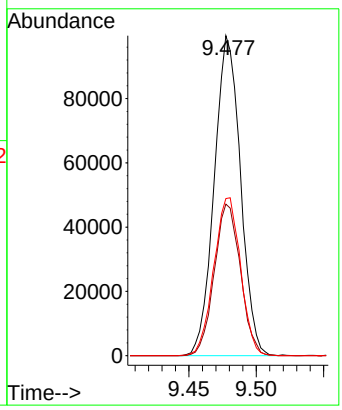


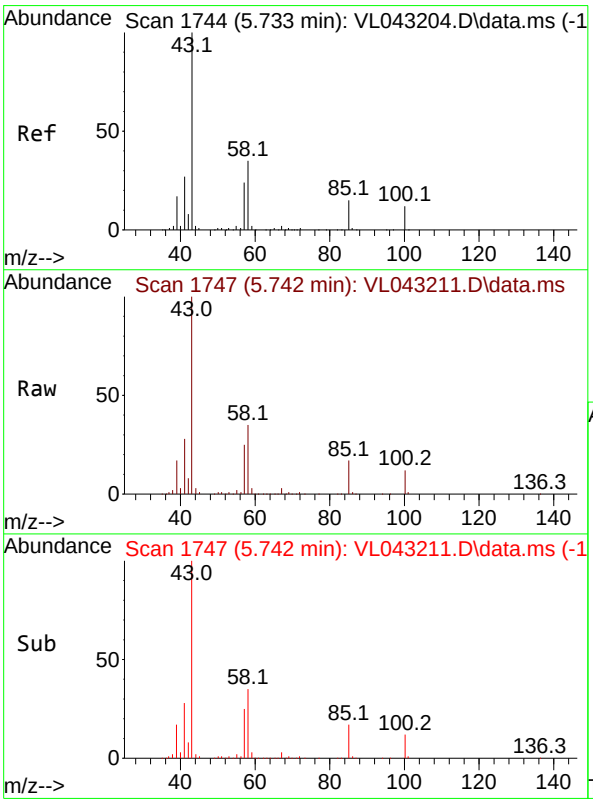
#49
Bromoform
Concen: 9.085 ppbv
RT: 9.477 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:173 Resp: 134790

Ion	Ratio	Lower	Upper
173	100		
175	47.2	38.6	58.0
171	50.2	40.6	61.0

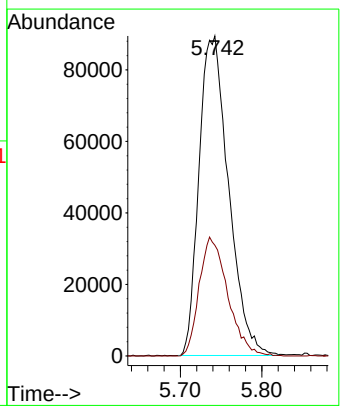


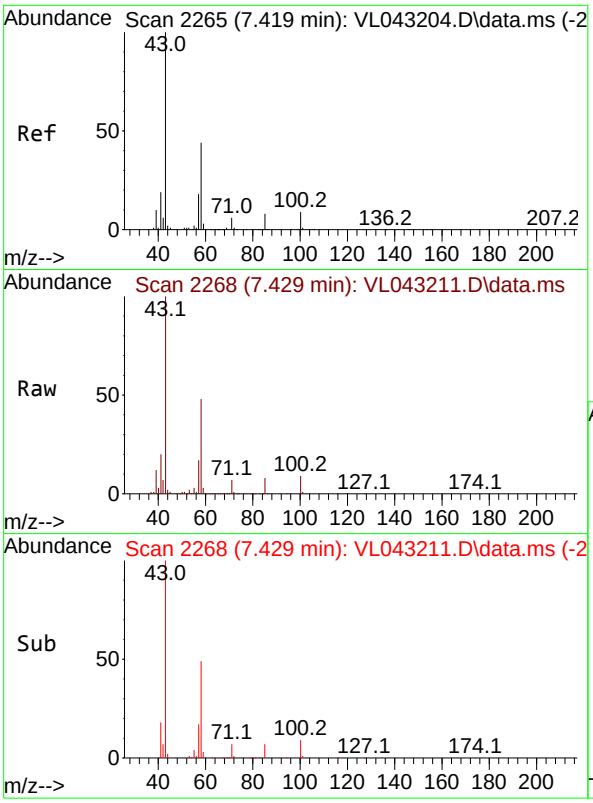


#50
4-Methyl-2-Pentanone
Concen: 8.631 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 43 Resp: 224791

Ion	Ratio	Lower	Upper
43	100		
58	36.0	28.4	42.6



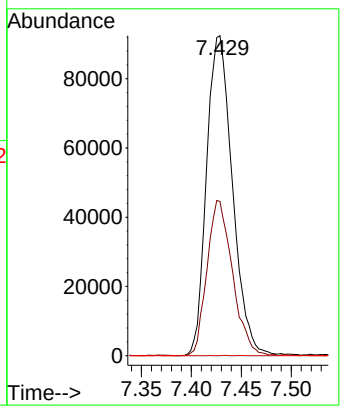


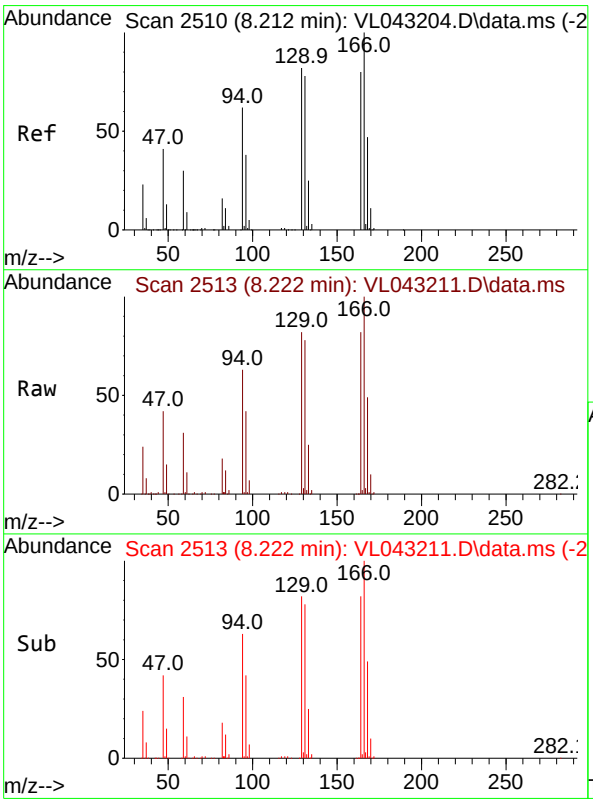
#51
2-Hexanone
Concen: 8.233 ppbv
RT: 7.429 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 43 Resp: 166506

Ion	Ratio	Lower	Upper
43	100		
58	47.9	38.4	57.6
98	0.0	0.0	0.0#

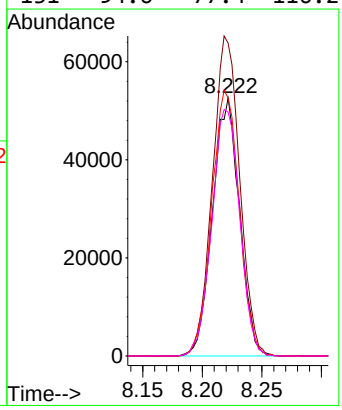


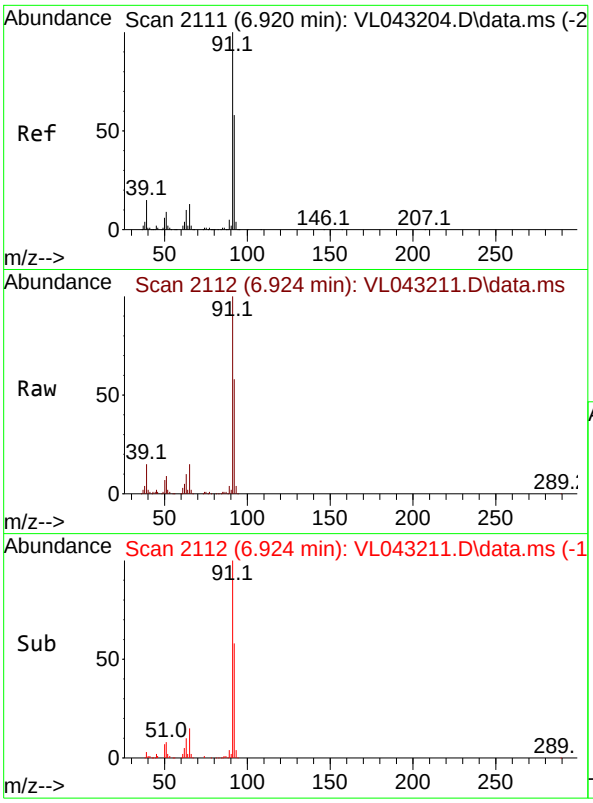


#52
Tetrachloroethene
Concen: 8.884 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:164 Resp: 82890

Ion	Ratio	Lower	Upper
164	100		
166	121.3	99.4	149.2
129	100.1	81.8	122.8
131	94.6	77.4	116.2



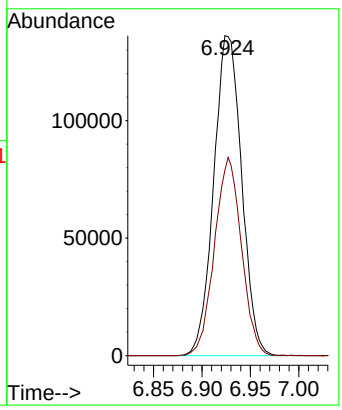


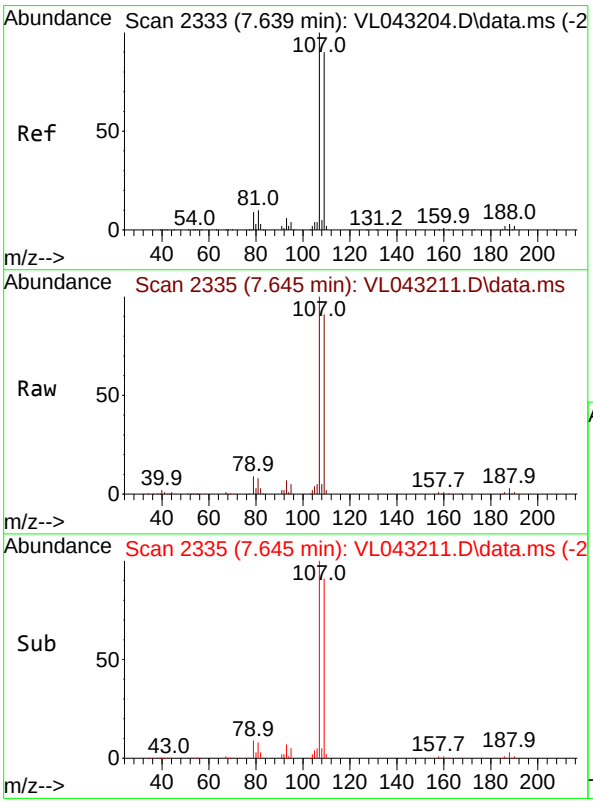
#53
Toluene
Concen: 9.197 ppbv
RT: 6.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 91 Resp: 273172

Ion	Ratio	Lower	Upper
91	100		
92	59.8	47.4	71.0

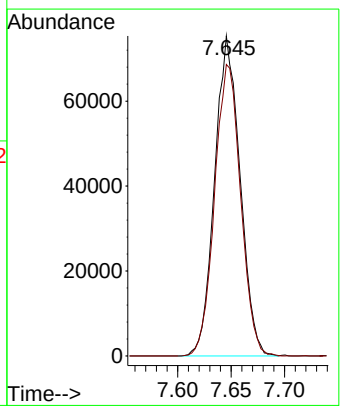


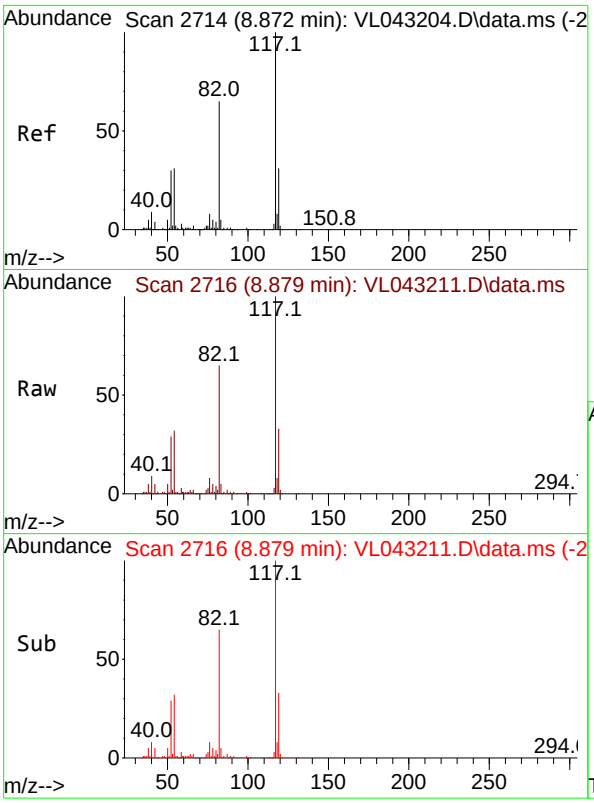


#54
1,2-Dibromoethane
Concen: 8.705 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:107 Resp: 124804

Ion	Ratio	Lower	Upper
107	100		
109	91.1	72.1	108.1



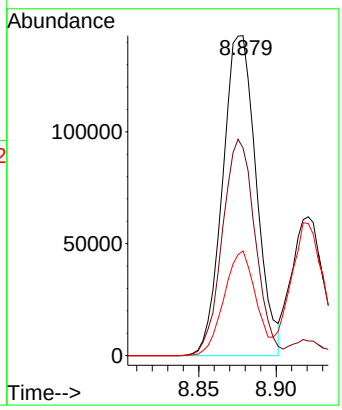


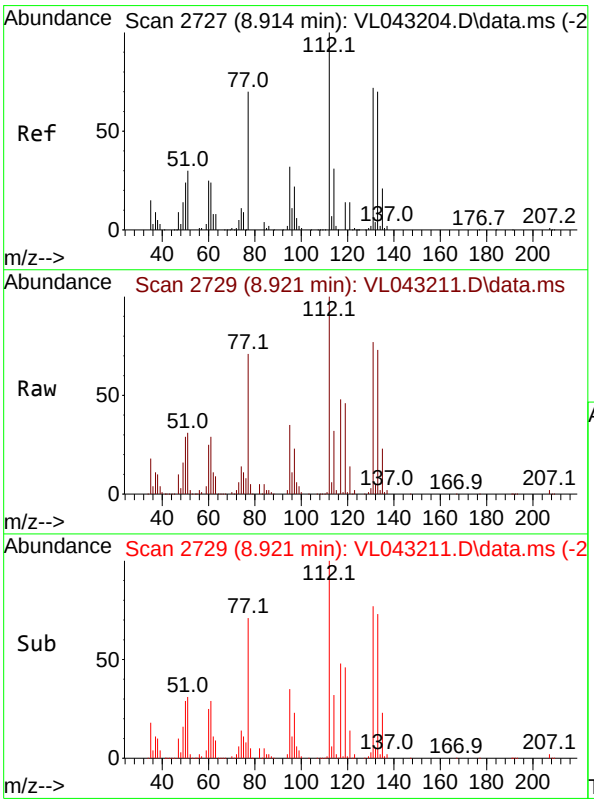
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:117 Resp: 216212

Ion	Ratio	Lower	Upper
117	100		
82	70.6	56.1	84.1
119	32.3	25.0	37.6

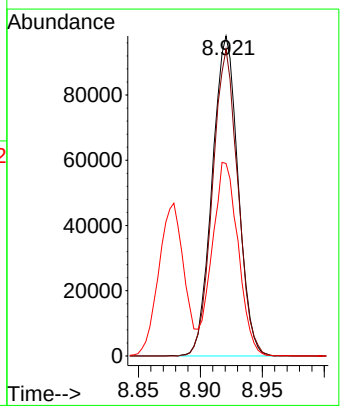


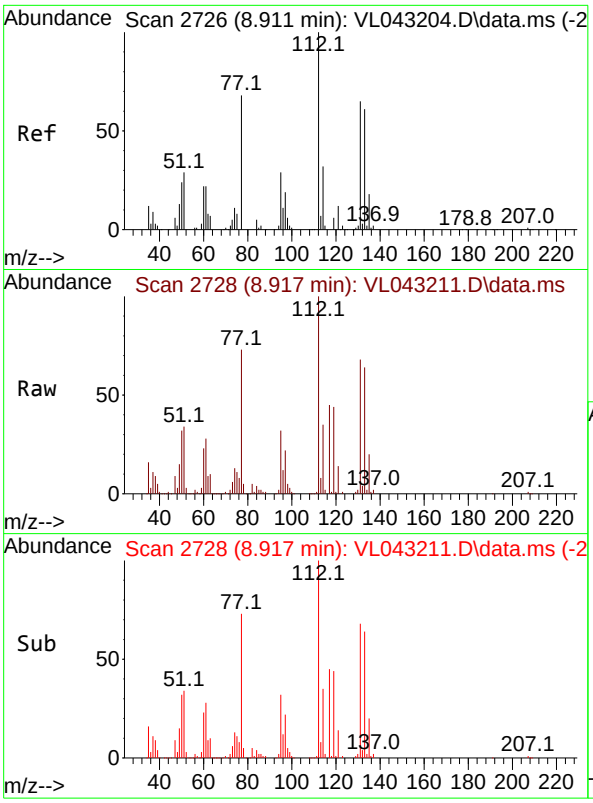


#56
1,1,1,2-Tetrachloroethane
Concen: 8.969 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:131 Resp: 142512

Ion	Ratio	Lower	Upper
131	100		
133	94.3	77.4	116.2
119	61.9	49.1	73.7



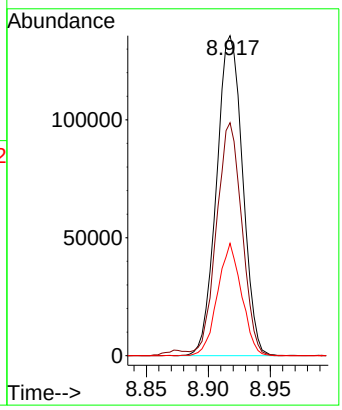


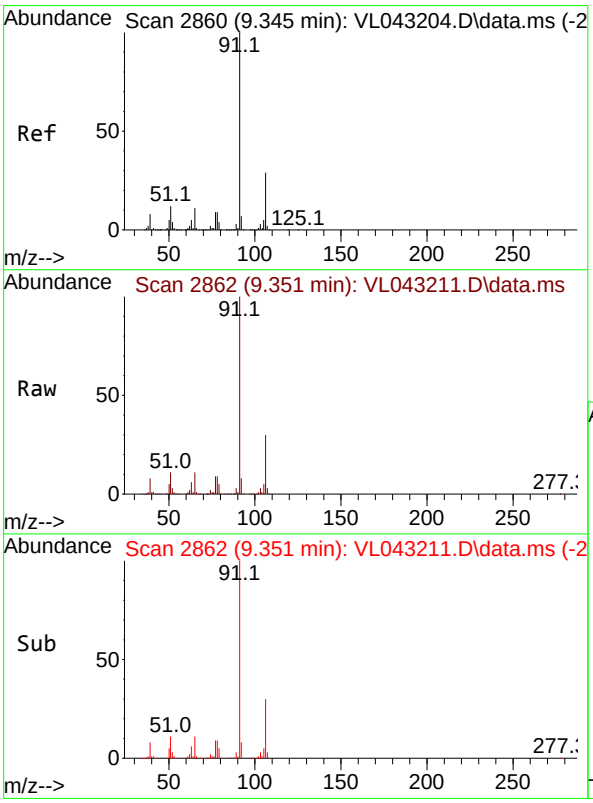
#57
Chlorobenzene
Concen: 8.981 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:112 Resp: 199373

Ion	Ratio	Lower	Upper
112	100		
77	72.7	55.5	83.3
114	35.1	29.1	35.5

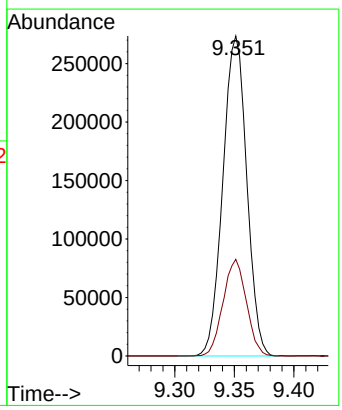


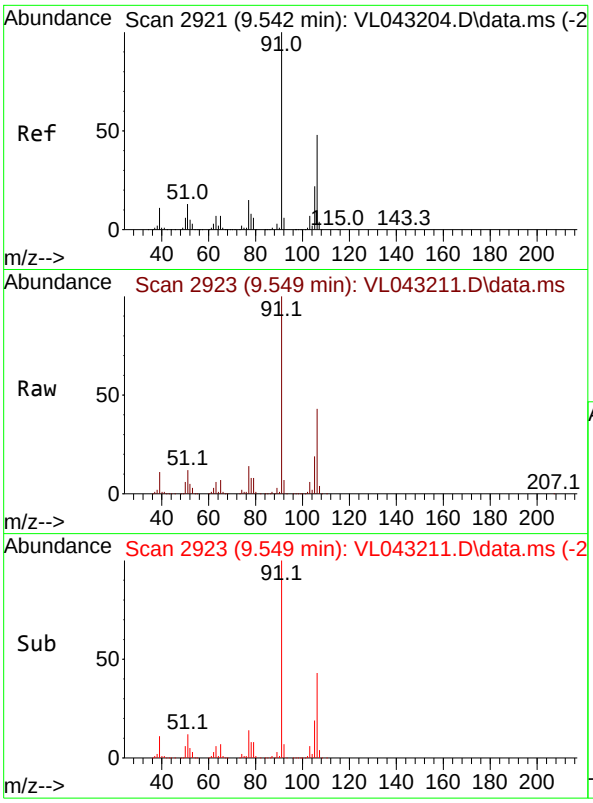


#58
Ethyl Benzene
Concen: 9.167 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 381474

Ion	Ratio	Lower	Upper
91	100		
106	30.2	22.8	34.2



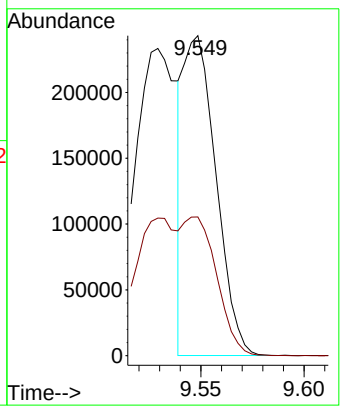


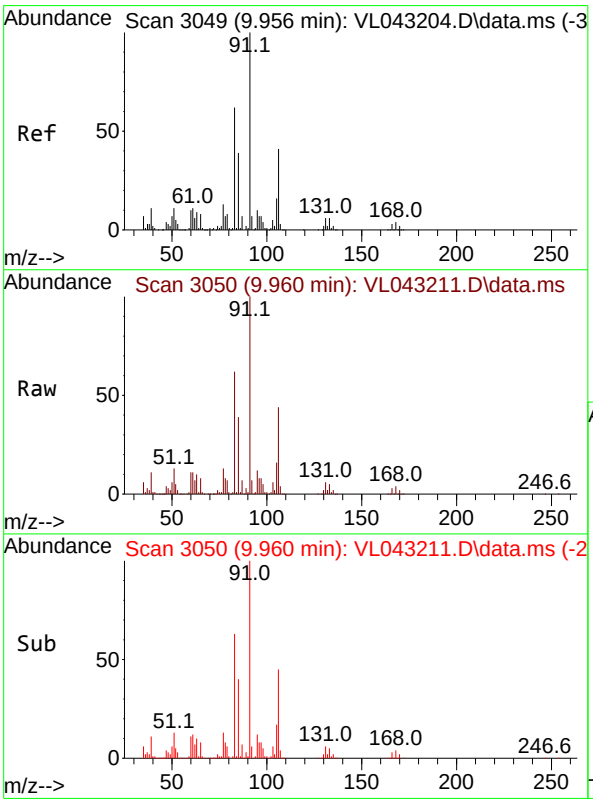
#59
m/p-Xylene
Concen: 7.957 ppbv
RT: 9.549 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 91 Resp: 265475

Ion	Ratio	Lower	Upper
91	100		
106	102.0	36.1	54.1#

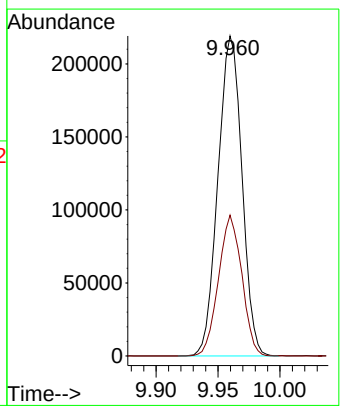


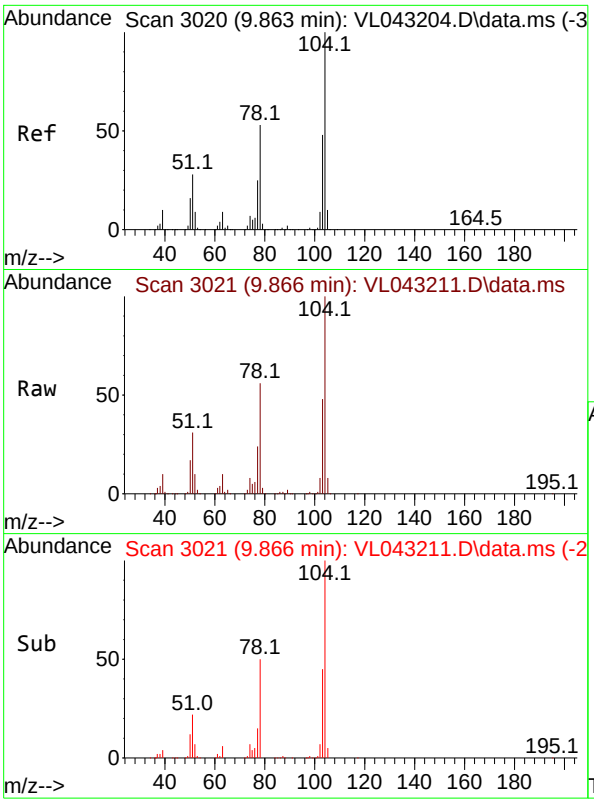


#60
o-Xylene
Concen: 8.876 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 295836

Ion	Ratio	Lower	Upper
91	100		
106	42.8	20.9	62.8



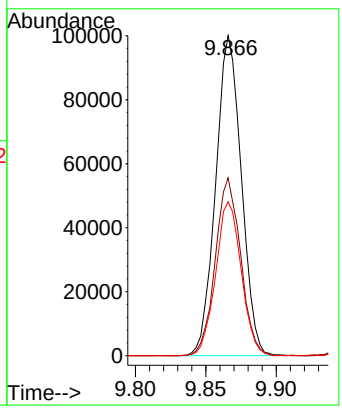


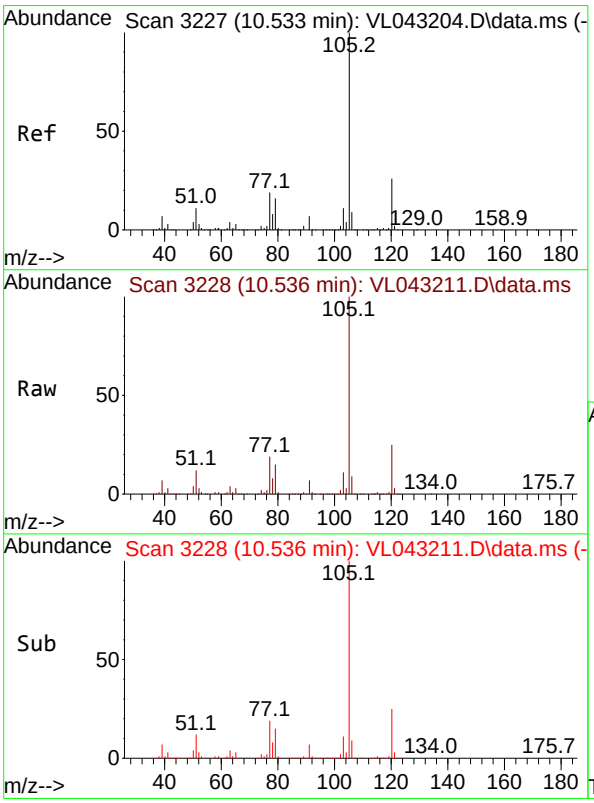
#61
Styrene
Concen: 8.714 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:104 Resp: 127117

Ion	Ratio	Lower	Upper
104	100		
78	54.7	42.1	63.1
103	48.0	37.2	55.8

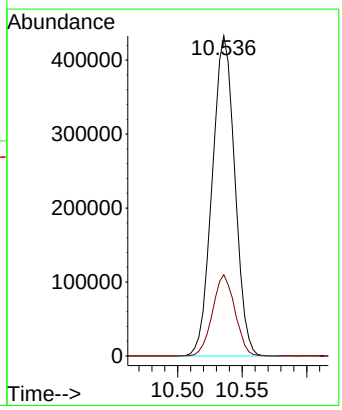


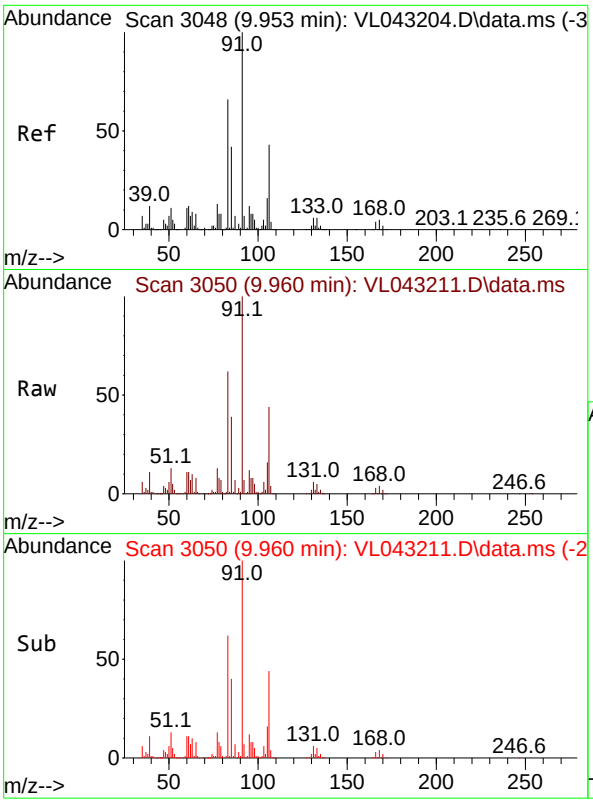


#62
Isopropylbenzene
Concen: 8.816 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 525717

Ion	Ratio	Lower	Upper
105	100		
120	25.1	19.8	29.8



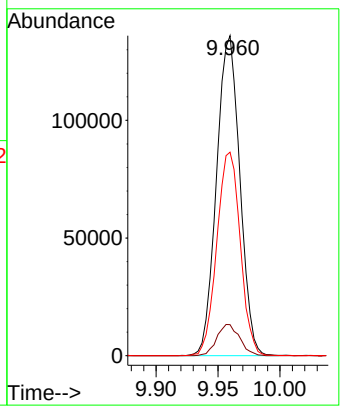


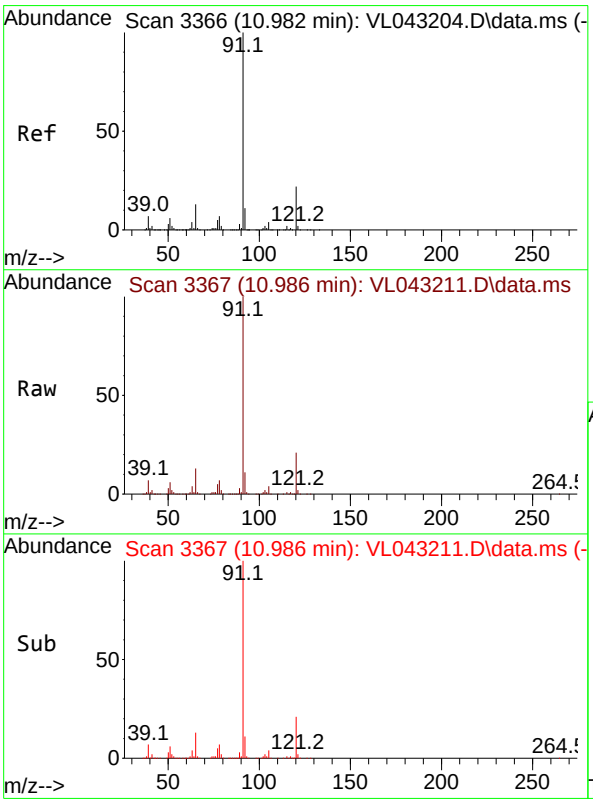
#63
1,1,2,2-Tetrachloroethane
Concen: 8.421 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 83 Resp: 178591

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	63.9	31.9	95.9

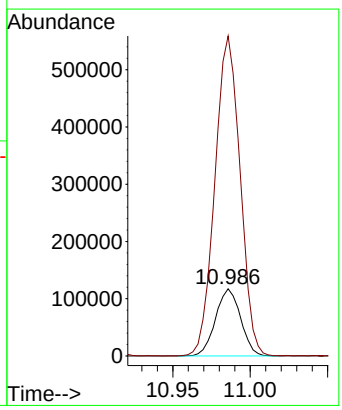


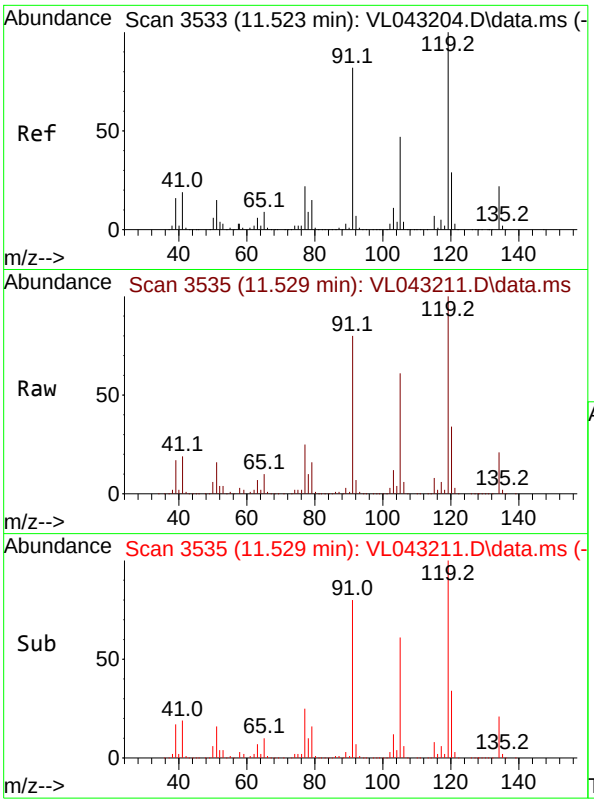


#64
n-propylbenzene
Concen: 8.591 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:120 Resp: 131634

Ion	Ratio	Lower	Upper
120	100		
91	482.2	377.1	565.7



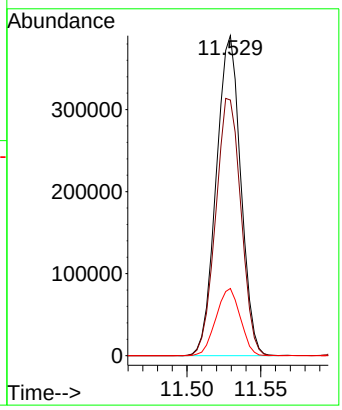


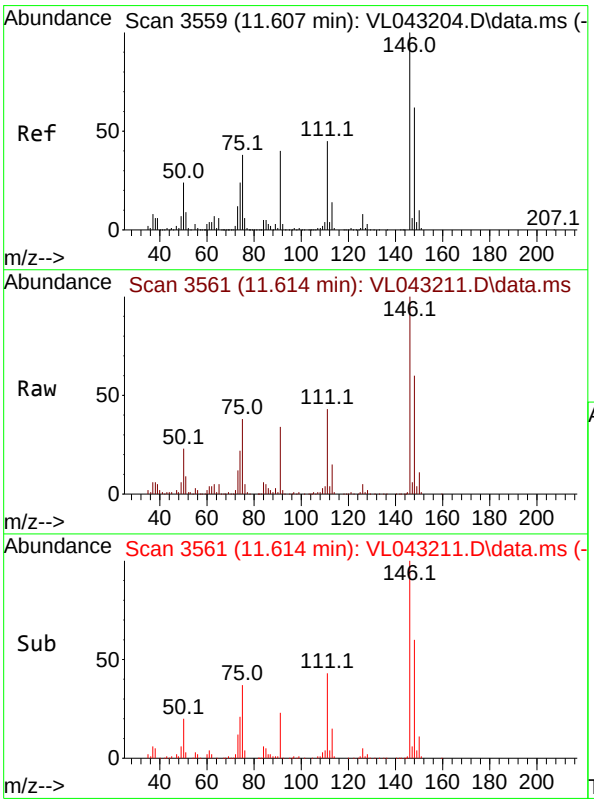
#65
tert-Butylbenzene
Concen: 8.465 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:119 Resp: 450819

Ion	Ratio	Lower	Upper
119	100		
91	83.0	65.3	97.9
134	20.8	17.0	25.4

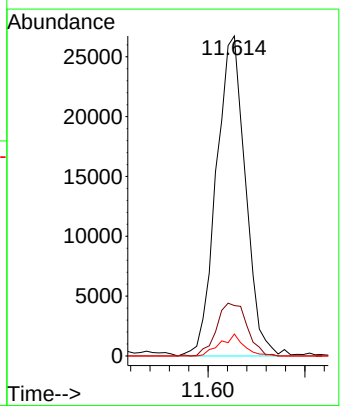


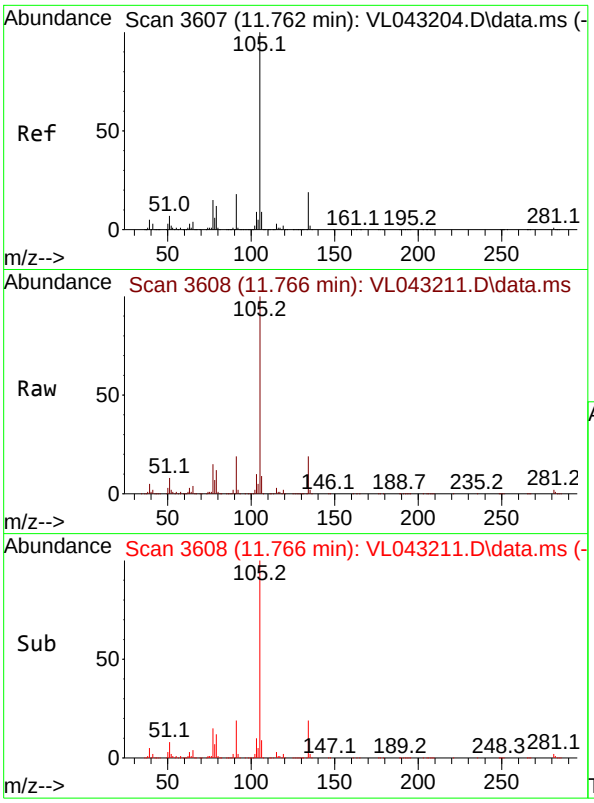


#66
Benzyl Chloride
Concen: 5.159 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 27878

Ion	Ratio	Lower	Upper
91	100		
126	17.3	14.4	21.6
128	5.6	4.6	6.8



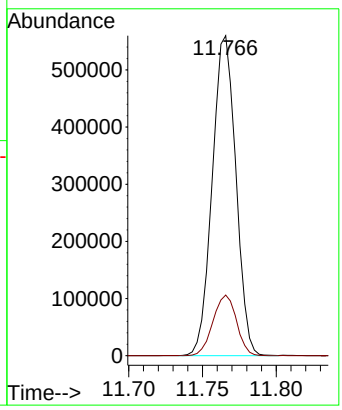


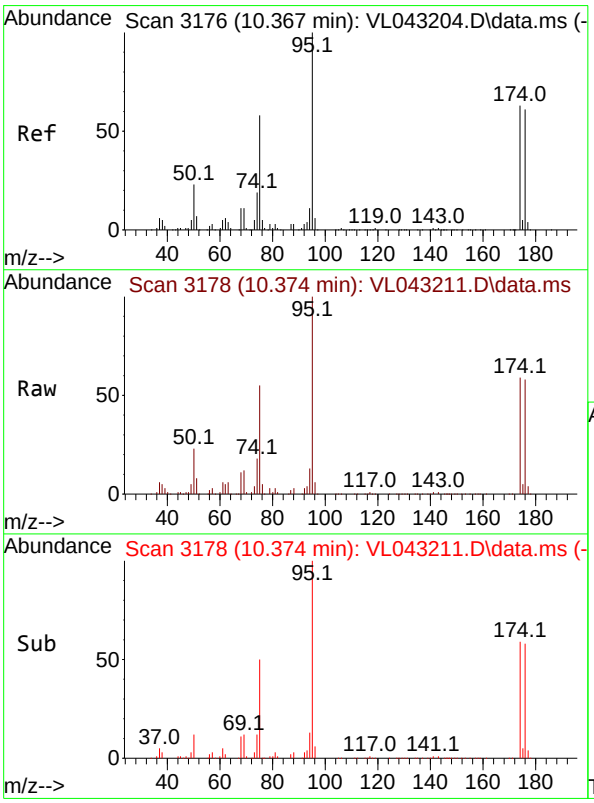
#67
sec-Butylbenzene
Concen: 8.388 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:105 Resp: 623520

Ion	Ratio	Lower	Upper
105	100		
134	19.0	15.0	22.6

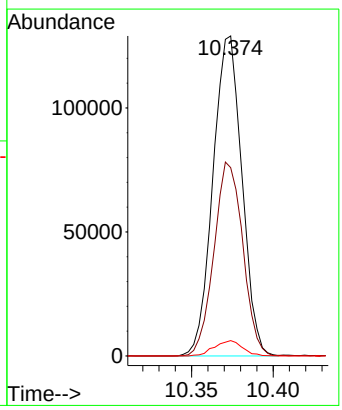


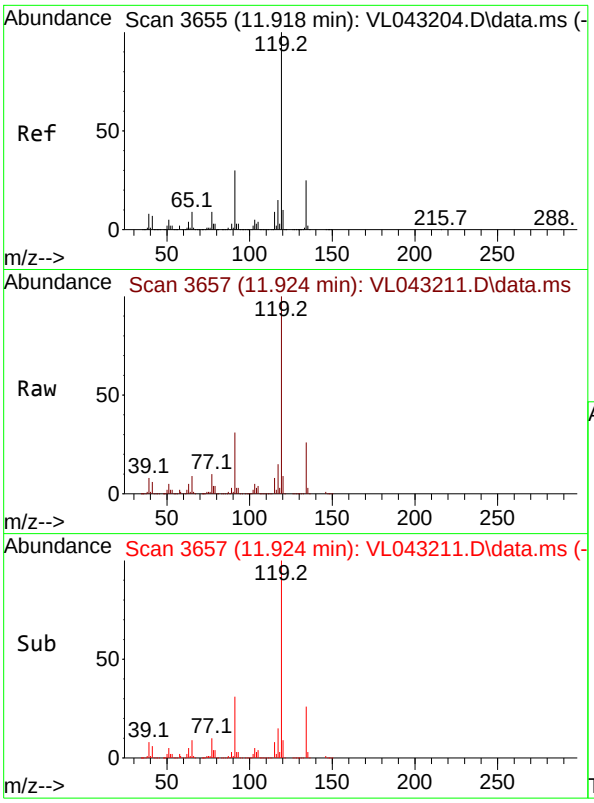


#68
1-Bromo-4-Fluorobenzene
Concen: 10.048 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 95 Resp: 159242

Ion	Ratio	Lower	Upper
95	100		
174	60.4	50.2	75.2
175	4.7	4.1	6.1



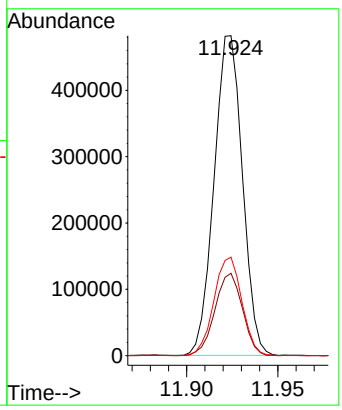


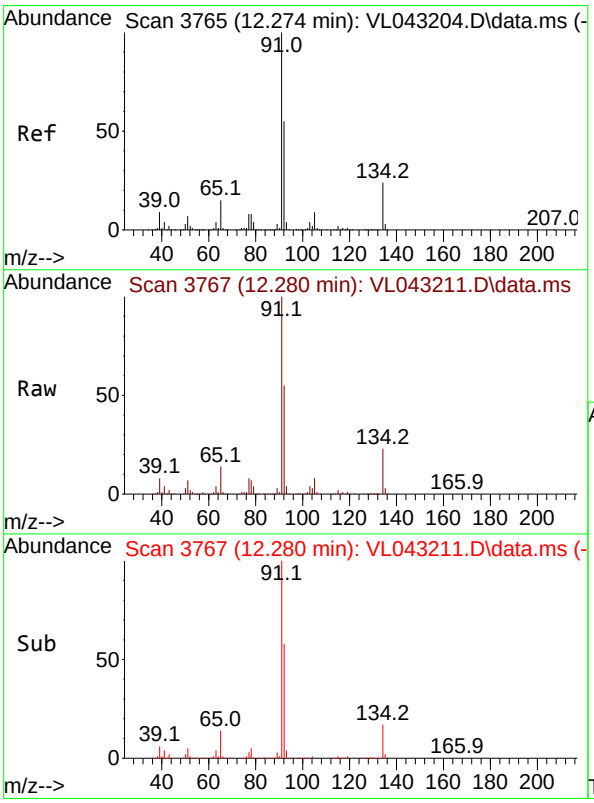
#69
p-Isopropyltoluene
Concen: 8.272 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:119 Resp: 520880

Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	30.6	23.8	35.8

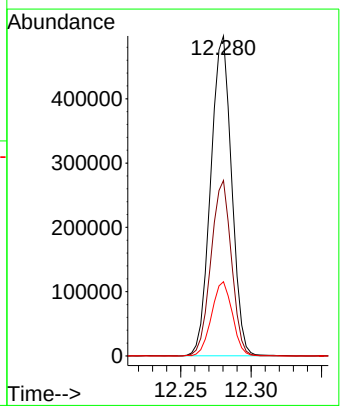


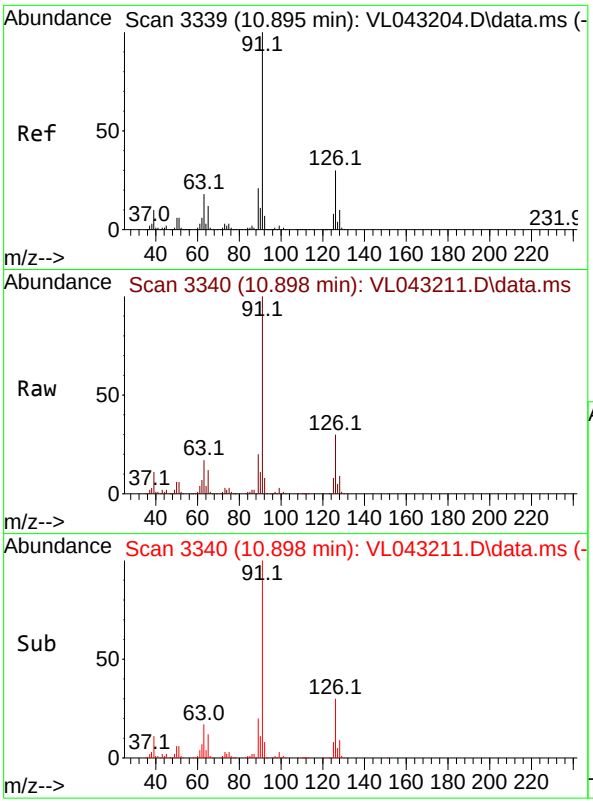


#70
n-Butylbenzene
Concen: 8.398 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.006 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion: 91 Resp: 513027

Ion	Ratio	Lower	Upper
91	100		
92	54.0	43.5	65.3
134	23.1	19.0	28.6



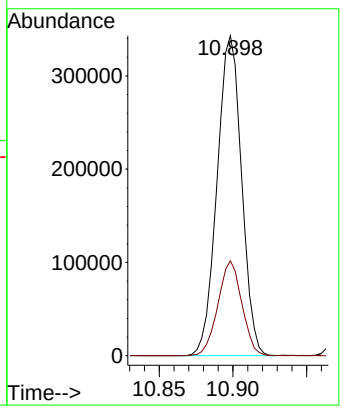


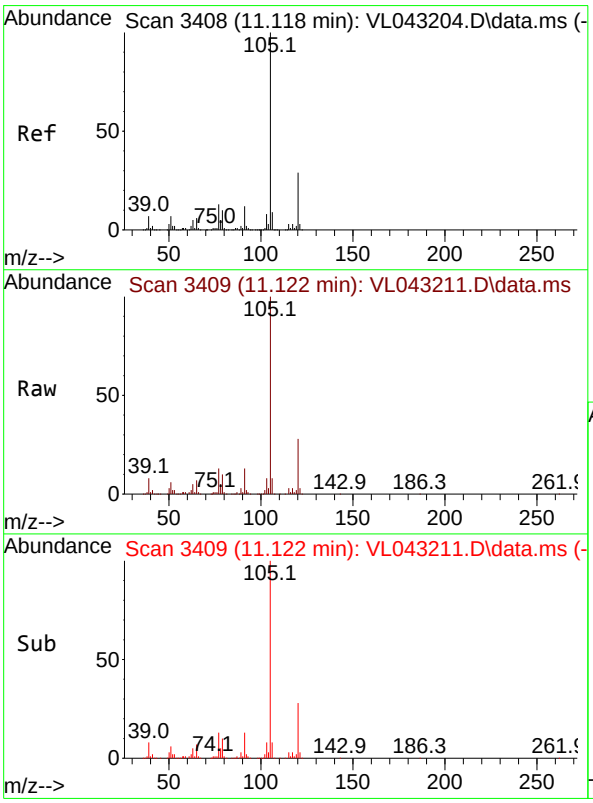
#71
2-Chlorotoluene
Concen: 8.649 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion: 91 Resp: 396434

Ion	Ratio	Lower	Upper
91	100		
126	28.9	11.7	46.7

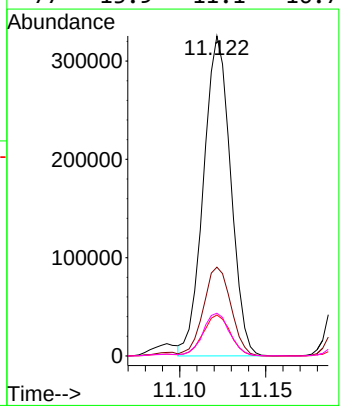


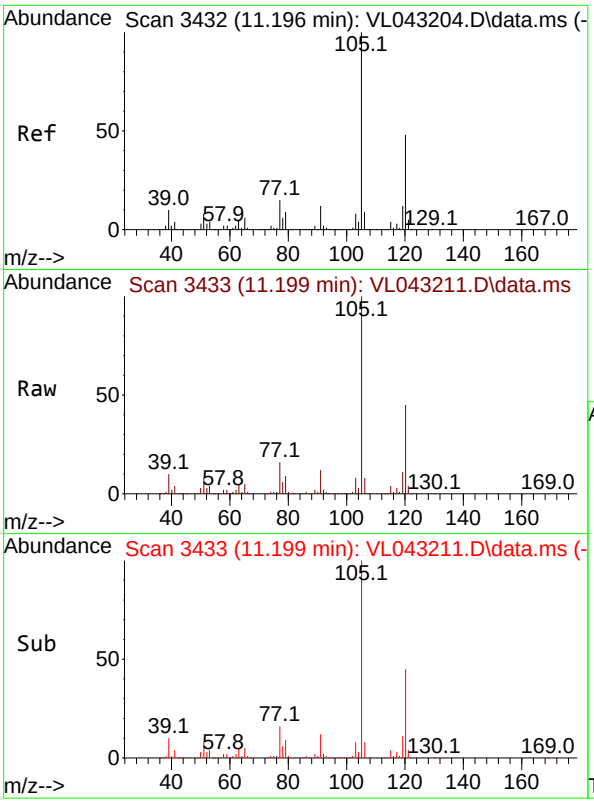


#72
4-Ethyltoluene
Concen: 8.779 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 356325

Ion	Ratio	Lower	Upper
105	100		
120	29.3	23.8	35.8
91	13.5	10.3	15.5
77	13.9	11.1	16.7



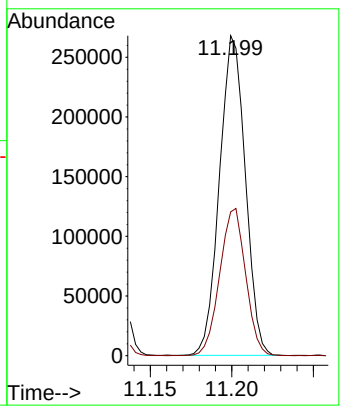


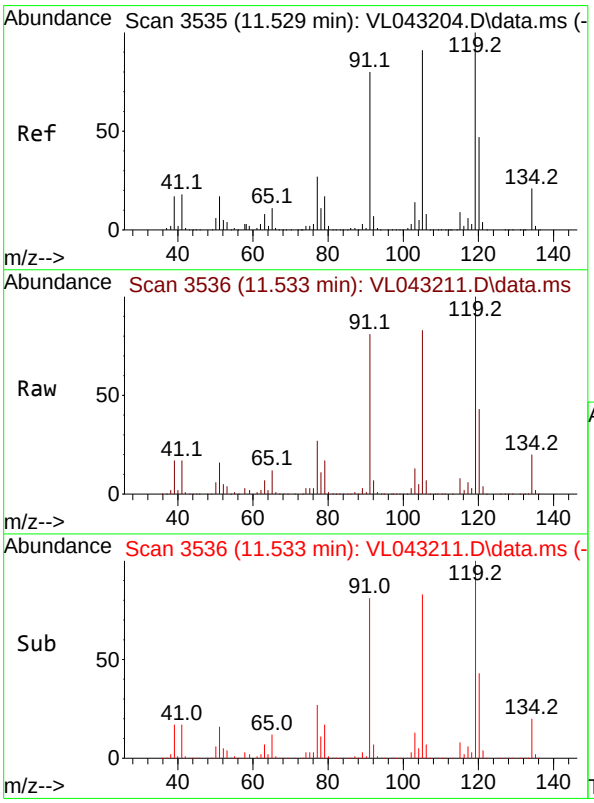
#73
1,3,5-Trimethylbenzene
Concen: 8.660 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:105 Resp: 294977

Ion	Ratio	Lower	Upper
105	100		
120	45.0	38.6	57.8

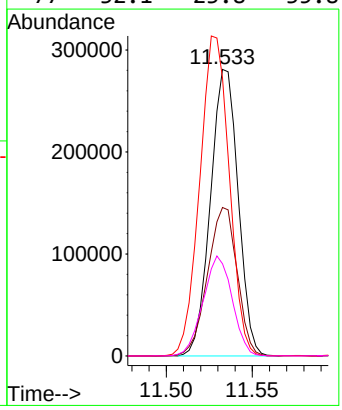


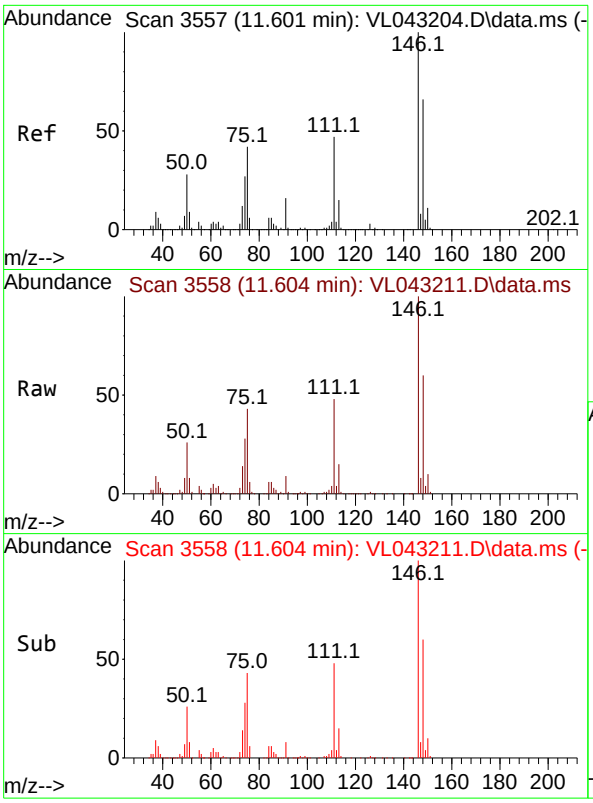


#74
1,2,4-Trimethylbenzene
Concen: 8.463 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:105 Resp: 314606

Ion	Ratio	Lower	Upper
105	100		
120	51.8	41.7	62.5
91	96.9	70.0	105.0
77	32.1	23.8	35.8



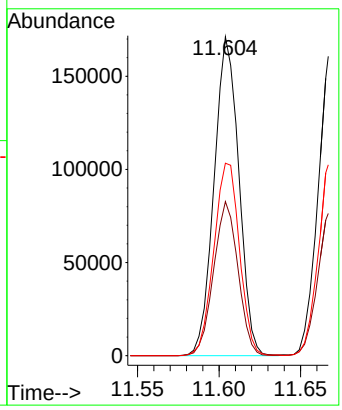


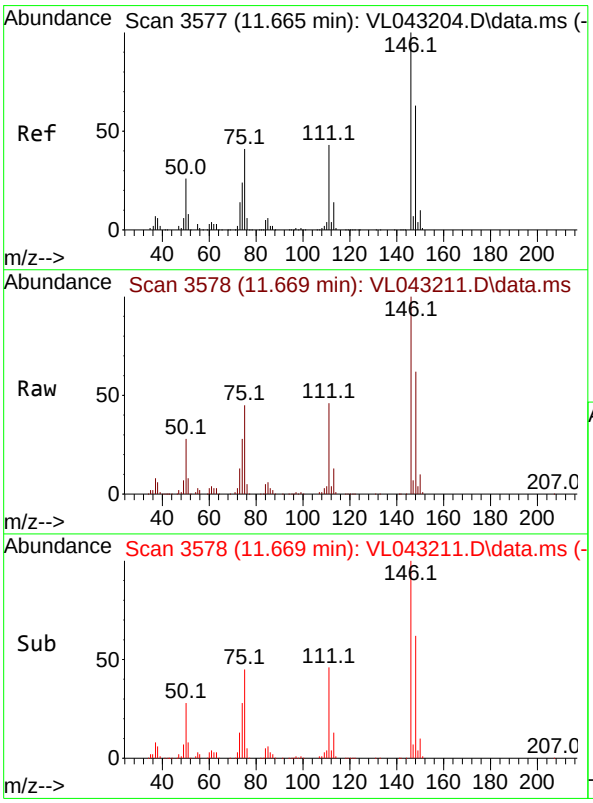
#75
1,3-Dichlorobenzene
Concen: 8.320 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:146 Resp: 180491

Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.4	70.3
148	62.7	31.6	95.0

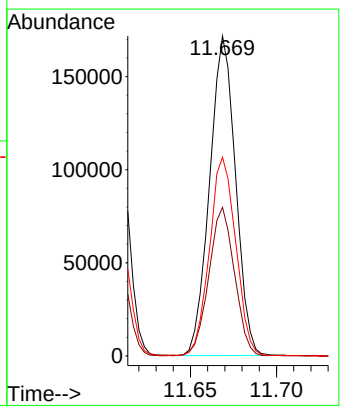


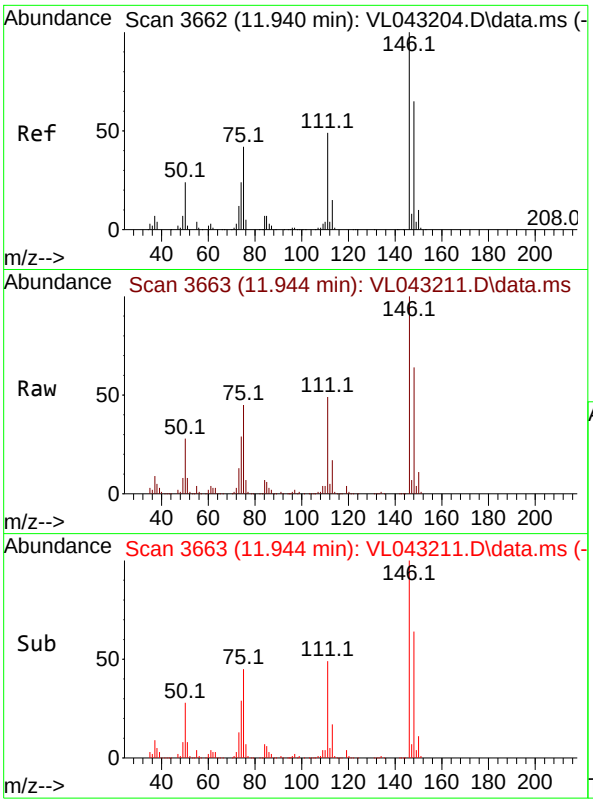


#76
1,4-Dichlorobenzene
Concen: 8.273 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:146 Resp: 179491

Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.8	68.3
148	63.4	31.8	95.4



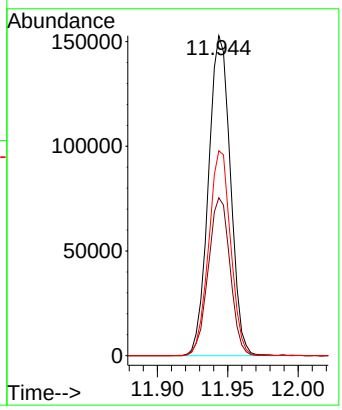


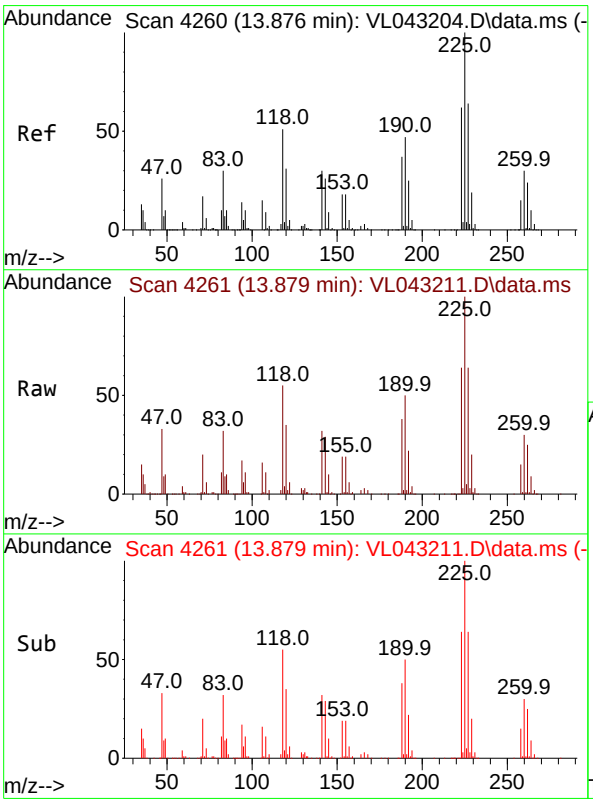
#77
1,2-Dichlorobenzene
Concen: 7.966 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:146 Resp: 166137

Ion	Ratio	Lower	Upper
146	100		
111	49.2	24.3	73.0
148	63.9	31.6	94.7

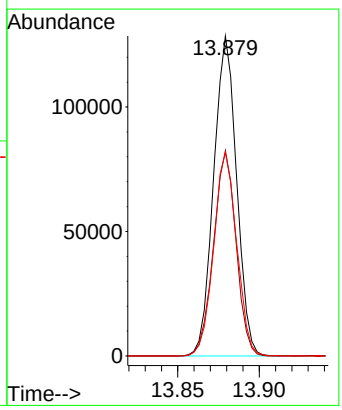


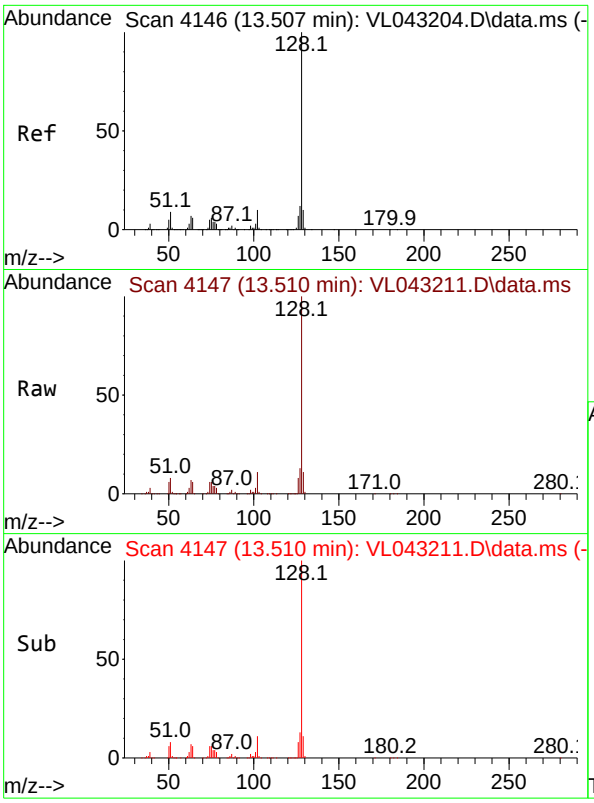


#78
Hexachloro-1,3-Butadiene
Concen: 7.222 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:225 Resp: 125707

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.4
227	63.7	51.1	76.7



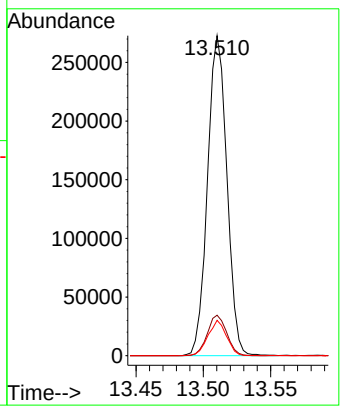


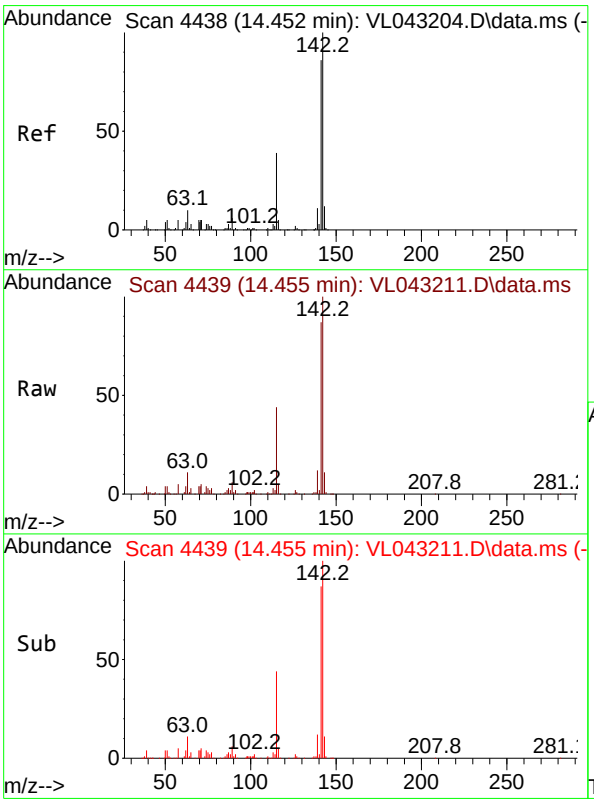
#79
Naphthalene
Concen: 8.270 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:128 Resp: 273029

Ion	Ratio	Lower	Upper
128	100		
127	12.7	9.9	14.9
129	11.0	8.4	12.6

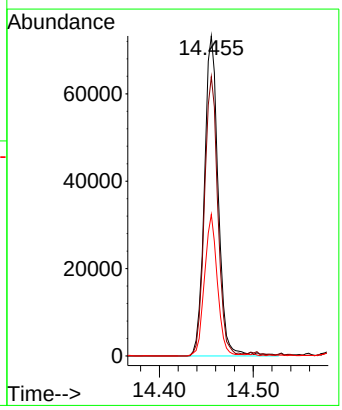


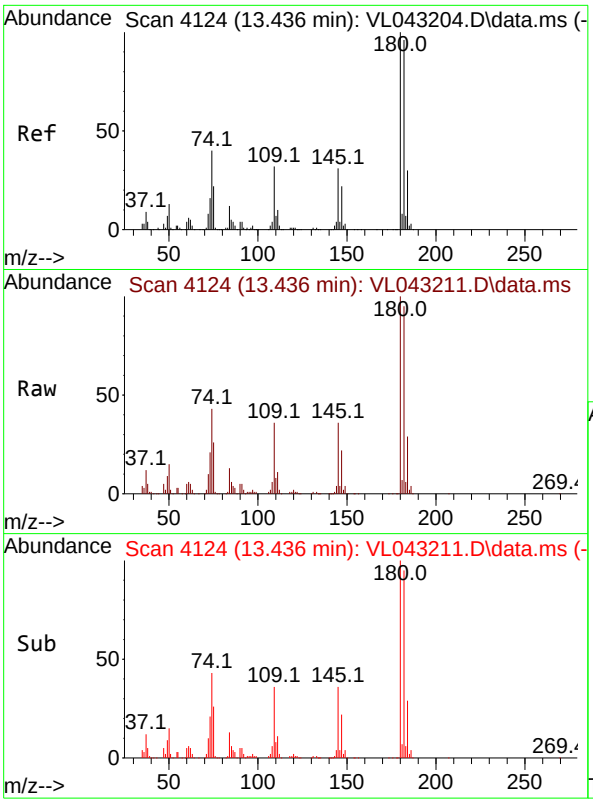


#80
Naphthalene,2-methyl-
Concen: 8.631 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Tgt Ion:142 Resp: 74802

Ion	Ratio	Lower	Upper
142	100		
141	86.8	67.1	100.7
115	41.7	31.9	47.9



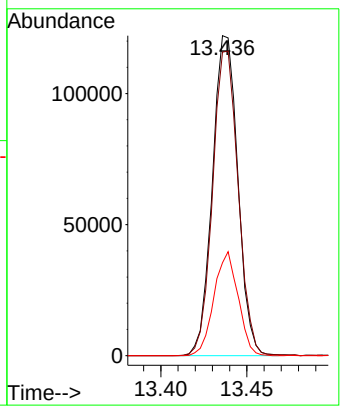


#81
1,2,4-Trichlorobenzene
Concen: 8.497 ppbv
RT: 13.436 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043211.D
Acq: 18 Nov 2025 13:56

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111825

Tgt Ion:180 Resp: 125470

Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.4	116.2
184	30.9	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043305.D
Acq On : 08 Dec 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Dec 09 00:07:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	129333	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	319801	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	246102	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	185245	10.269	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	194161	10.644	ppbv		98
3) Chlorodifluoromethane	1.473	51	181461	10.115	ppbv		95
4) Chloromethane	1.531	50	69866	10.244	ppbv		96
5) Vinyl Chloride	1.580	62	68051	9.124	ppbv		98
6) Bromomethane	1.667	94	33036	9.137	ppbv		97
7) Chloroethane	1.703	64	28027	9.648	ppbv		93
8) Dichlorotetrafluoroethane	1.554	85	158307	10.433	ppbv		97
9) Propene	1.479	41	71565	9.394	ppbv	#	1
10) Heptane	4.969	43	214107	9.444	ppbv		99
11) Trichlorofluoromethane	1.874	101	201211	11.385	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.136	101	154240	11.178	ppbv		97
13) Ethanol	1.719	45	22019	8.220	ppbv		97
14) Bromoethene	1.780	108	55354	10.465	ppbv		96
15) Acetone	1.832	43	154196	8.581	ppbv		99
16) 1,3-Butadiene	1.606	39	76902	9.600	ppbv		97
17) tert-Butyl alcohol	2.036	59	210170	8.911	ppbv		98
18) 1,1-Dichloroethene	2.030	96	67377	10.487	ppbv		94
19) Isopropyl Alcohol	1.884	45	84553	8.327	ppbv	#	86
20) Methylene Chloride	2.059	84	60771	11.604	ppbv		96
21) Allyl Chloride	2.091	41	105856	8.756	ppbv		98
22) trans-1,2-Dichloroethene	2.337	96	75565	10.291	ppbv		94
23) Vinyl Acetate	2.457	43	204427	9.424	ppbv	#	96
24) 1,1-Dichloroethane	2.405	63	146480	10.334	ppbv		98
25) Ethyl Acetate	2.829	43	373216	9.630	ppbv		99
26) Hexane	2.819	57	168150	9.897	ppbv		98
27) Carbon Disulfide	2.146	76	188702	10.878	ppbv		99
28) Methyl tert-Butyl Ether	2.434	73	84588	10.142	ppbv		96
29) Chloroform	2.842	83	280385	11.610	ppbv		97
30) Cyclohexane	3.845	84	138616	9.731	ppbv		94
31) cis-1,2-Dichloroethene	2.716	61	166393	9.853	ppbv		96
32) 1,1,1-Trichloroethane	3.360	97	280239	10.886	ppbv		99
34) 2-Butanone	2.551	43	234600	10.392	ppbv		100
35) Carbon Tetrachloride	3.752	117	294900	12.149	ppbv		98
36) Benzene	3.648	78	339149	11.074	ppbv		99
37) 1,2-Dichloroethane	3.211	62	209977	11.721	ppbv		98
38) Trichloroethene	4.535	130	135509	11.309	ppbv		98
39) 1,2-Dichloropropane	4.302	63	121360	10.827	ppbv		87
40) 1,4-Dioxane	4.564	88	44522	8.836	ppbv	#	98
41) Tetrahydrofuran	3.046	42	120028	9.628	ppbv		98
42) Bromodichloromethane	4.477	83	299904	12.136	ppbv		99
43) Methyl Methacrylate	4.865	69	152174	9.361	ppbv		98
44) 2,2,4-Trimethylpentane	4.629	57	573790	10.909	ppbv		99
45) t-1,3-Dichloropropene	6.402	75	117128	7.729	ppbv		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043305.D
Acq On : 08 Dec 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Dec 09 00:07:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	75161	4.224	ppbv		94
47) 1,1,2-Trichloroethane	6.564	97	135385	11.381	ppbv		95
48) Dibromochloromethane	7.370	129	240386	11.753	ppbv		99
49) Bromoform	9.471	173	217719	12.018	ppbv		98
50) 4-Methyl-2-Pentanone	5.729	43	310023	9.749	ppbv		97
51) 2-Hexanone	7.419	43	219906	8.905	ppbv	#	99
52) Tetrachloroethene	8.212	164	123188	10.813	ppbv		98
53) Toluene	6.920	91	368638	10.165	ppbv		100
54) 1,2-Dibromoethane	7.636	107	185272	10.583	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.914	131	231860	12.819	ppbv		97
57) Chlorobenzene	8.911	112	301763	11.943	ppbv		95
58) Ethyl Benzene	9.344	91	527984	11.146	ppbv		95
59) m/p-Xylene	9.542	91	461134	12.143	ppbv	#	33
60) o-Xylene	9.953	91	447628	11.799	ppbv		99
61) Styrene	9.859	104	167047	10.061	ppbv		99
62) Isopropylbenzene	10.529	105	797107	11.744	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.950	83	290145	12.020	ppbv		99
64) n-propylbenzene	10.979	120	205431	11.779	ppbv		99
65) tert-Butylbenzene	11.523	119	694372	11.455	ppbv		100
66) Benzyl Chloride	11.607	91	30971	5.035	ppbv		98
67) sec-Butylbenzene	11.759	105	982704	11.615	ppbv		99
69) p-Isopropyltoluene	11.918	119	812059	11.330	ppbv		99
70) n-Butylbenzene	12.274	91	780968	11.231	ppbv		99
71) 2-Chlorotoluene	10.892	91	588943	11.289	ppbv		99
72) 4-Ethyltoluene	11.118	105	539530	11.678	ppbv		99
73) 1,3,5-Trimethylbenzene	11.196	105	445981	11.503	ppbv		97
74) 1,2,4-Trimethylbenzene	11.529	105	499268	11.800	ppbv		91
75) 1,3-Dichlorobenzene	11.597	146	298569	12.092	ppbv		98
76) 1,4-Dichlorobenzene	11.662	146	298168	12.074	ppbv		99
77) 1,2-Dichlorobenzene	11.937	146	286499	12.068	ppbv		99
78) Hexachloro-1,3-Butadiene	13.876	225	220765	11.143	ppbv		99
79) Naphthalene	13.507	128	403341	10.733	ppbv		99
80) Naphthalene,2-methyl-	14.452	142	91763	9.302	ppbv		97
81) 1,2,4-Trichlorobenzene	13.432	180	202078	12.024	ppbv		99

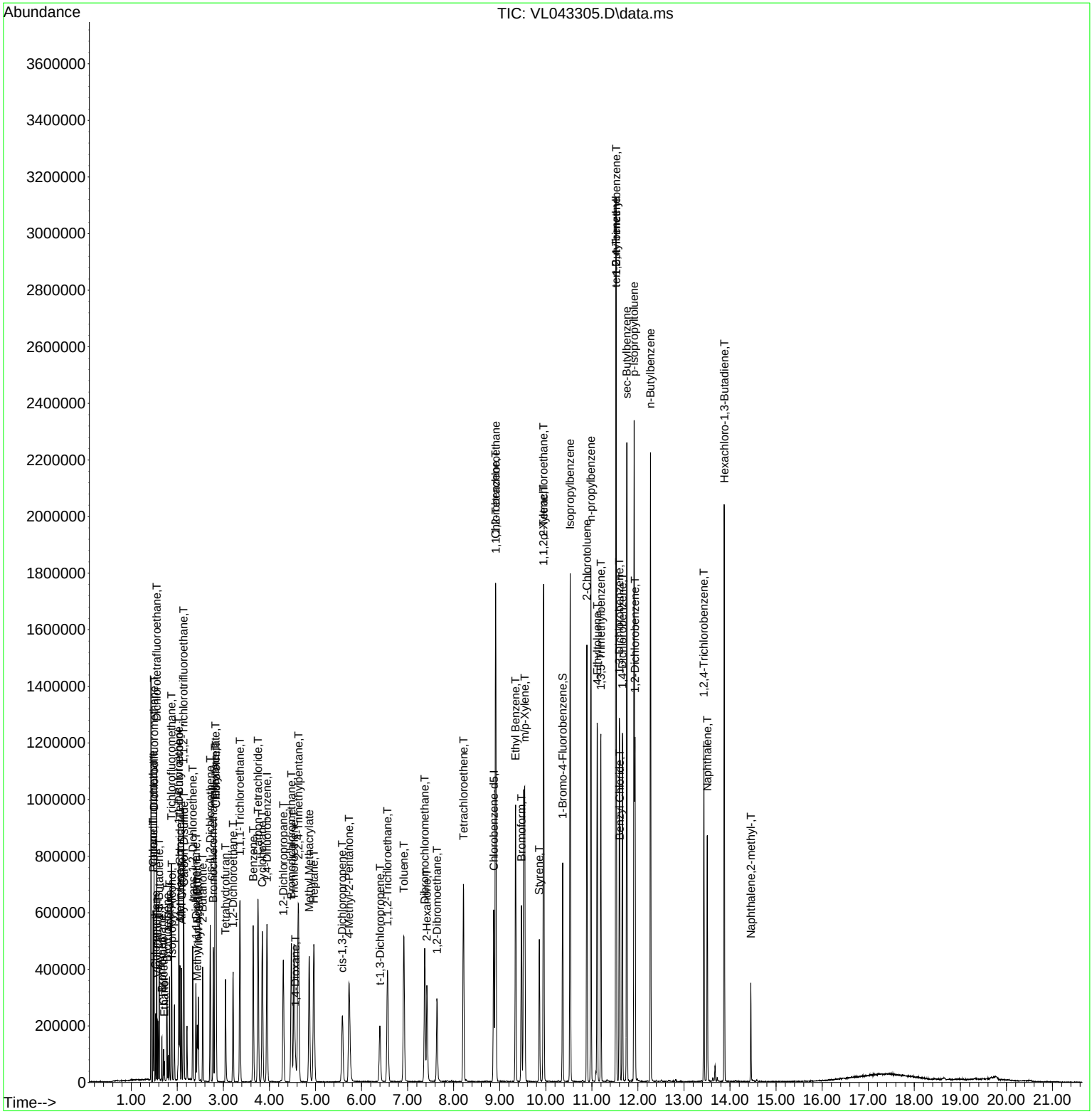
(#) = qualifier out of range (m) = manual integration (+) = signals summed

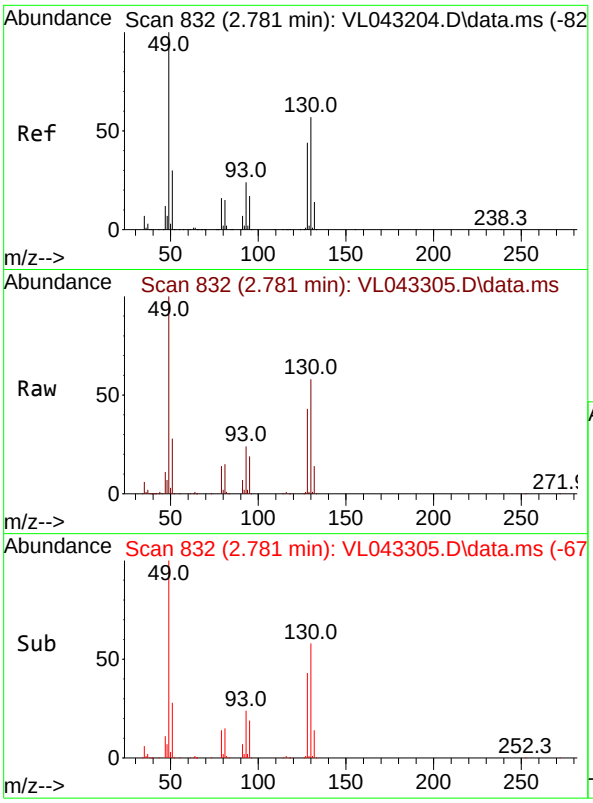
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043305.D
Acq On : 08 Dec 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Dec 09 00:07:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



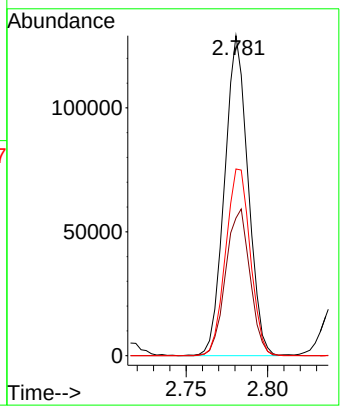


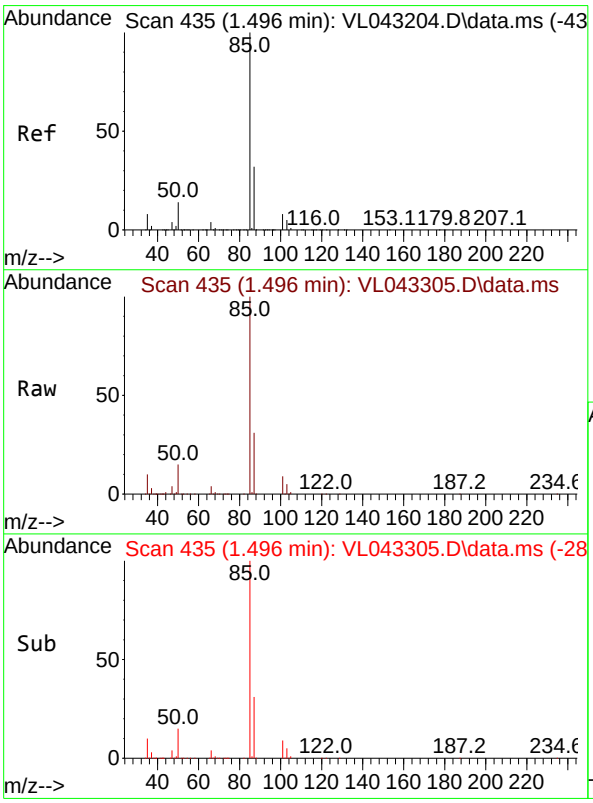
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 129333

Ion	Ratio	Lower	Upper
49	100		
128	47.5	23.0	69.0
130	61.0	29.9	89.7

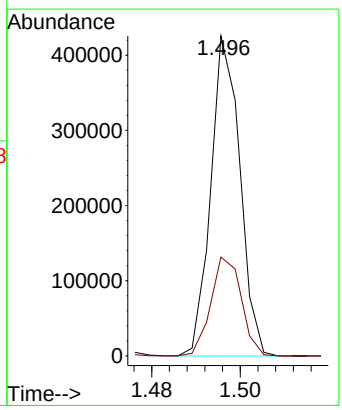


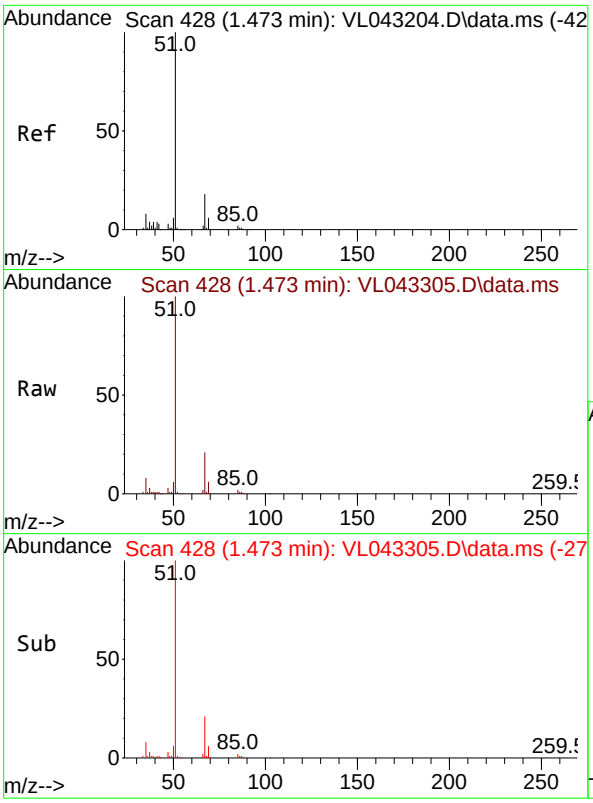


#2
Dichlorodifluoromethane
Concen: 10.644 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 85 Resp: 194161

Ion	Ratio	Lower	Upper
85	100		
87	30.9	25.4	38.2



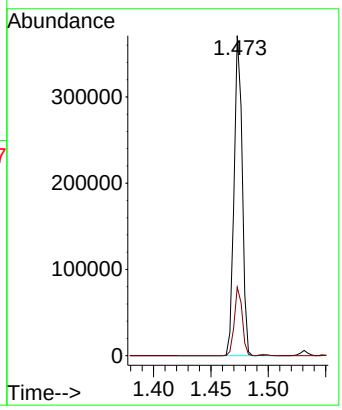


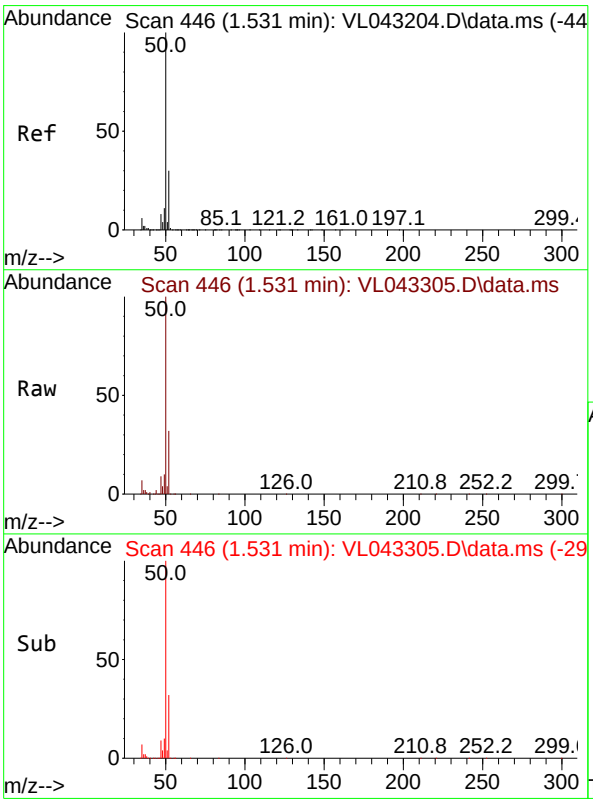
#3
Chlorodifluoromethane
Concen: 10.115 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 51 Resp: 181461

Ion	Ratio	Lower	Upper
51	100		
67	20.9	14.9	22.3

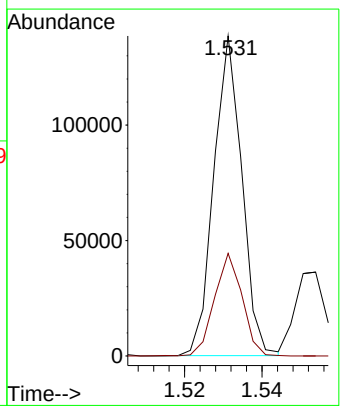


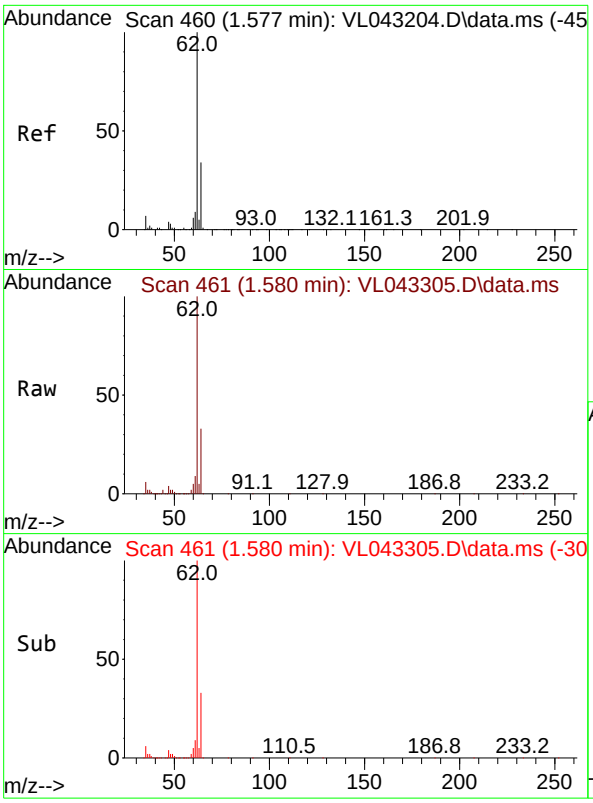


#4
Chloromethane
Concen: 10.244 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 50 Resp: 69866

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.1	36.1



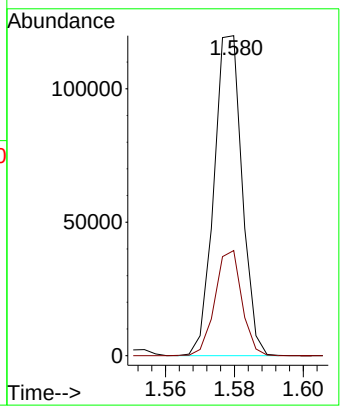


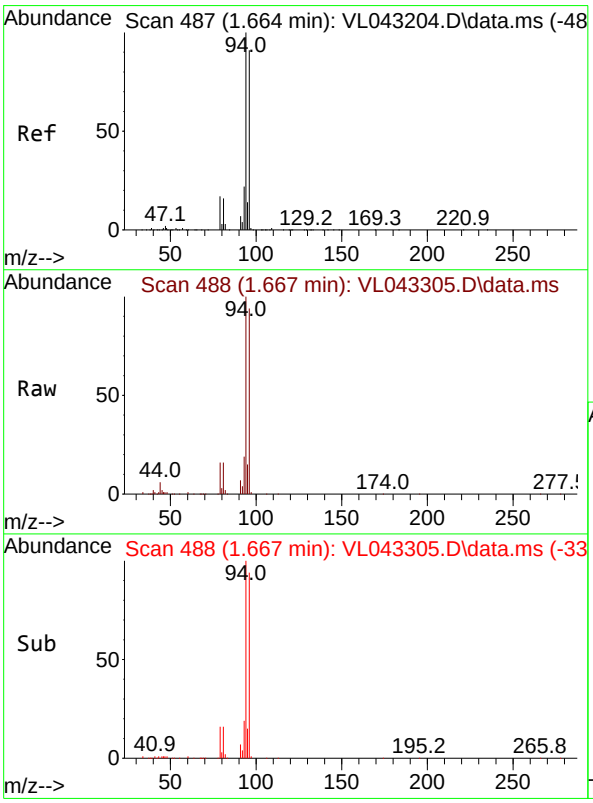
#5
Vinyl Chloride
Concen: 9.124 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 68051

Ion	Ratio	Lower	Upper
62	100		
64	32.9	27.3	40.9

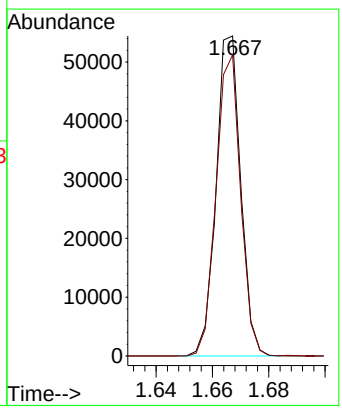


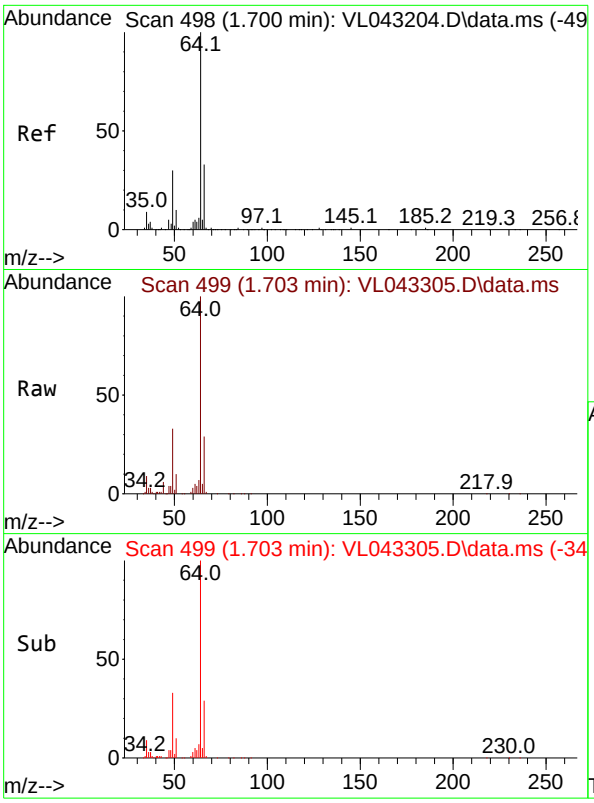


#6
Bromomethane
Concen: 9.137 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 94 Resp: 33036

Ion	Ratio	Lower	Upper
94	100		
96	94.1	72.9	109.3



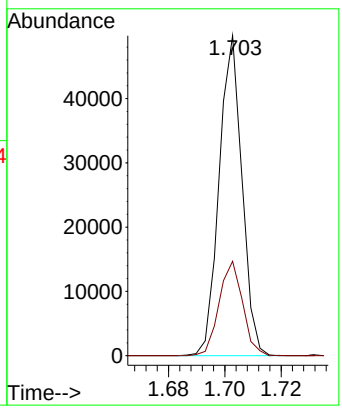


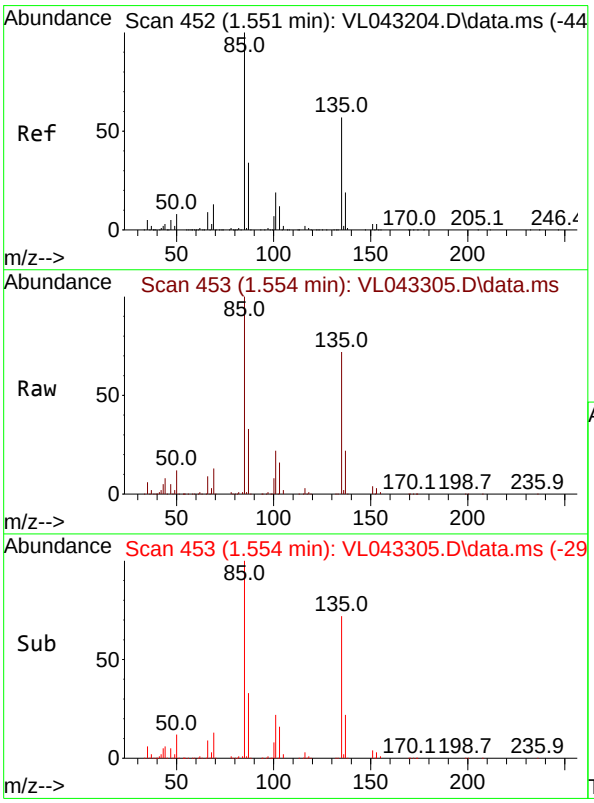
#7
Chloroethane
Concen: 9.648 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 28027

Ion	Ratio	Lower	Upper
64	100		
66	29.5	26.8	40.2

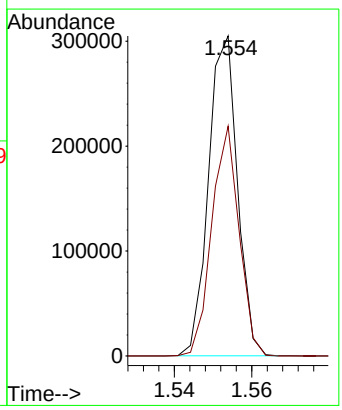


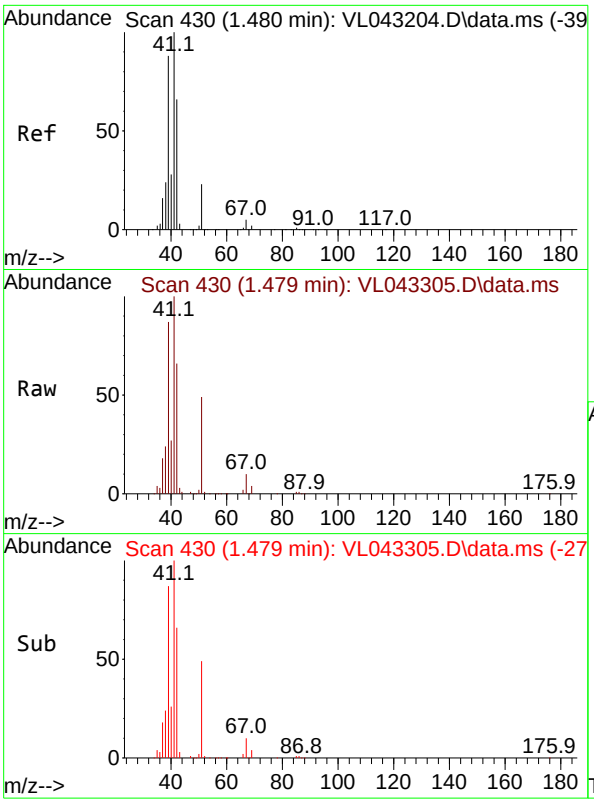


#8
Dichlorotetrafluoroethane
Concen: 10.433 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 85 Resp: 158307

Ion	Ratio	Lower	Upper
85	100		
135	67.8	52.6	79.0



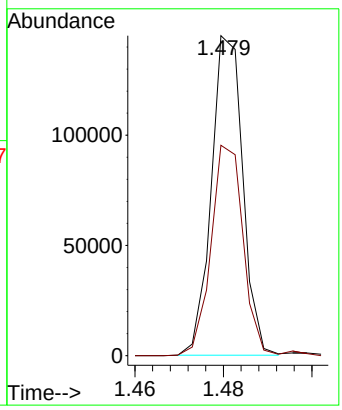


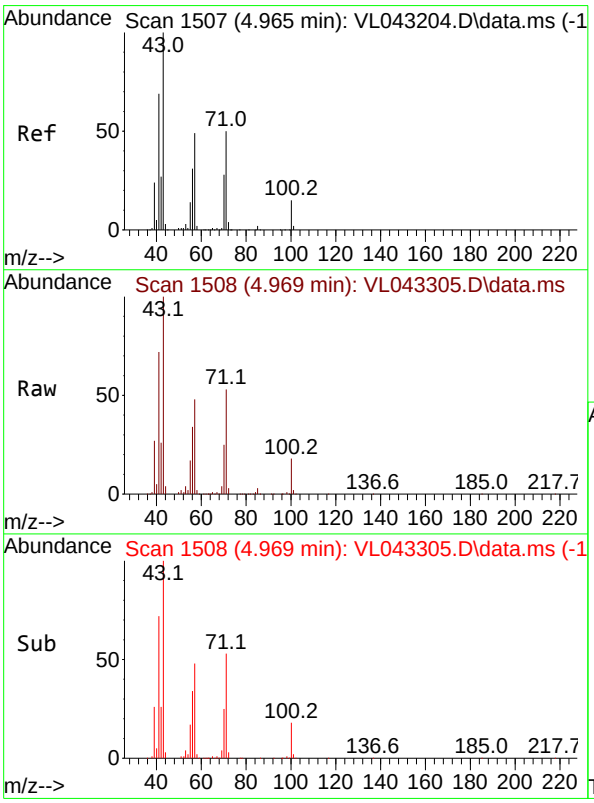
#9
Propene
Concen: 9.394 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 71565

Ion	Ratio	Lower	Upper
41	100		
42	68.4	3.7	5.5#

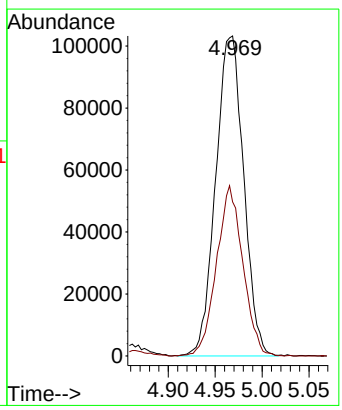


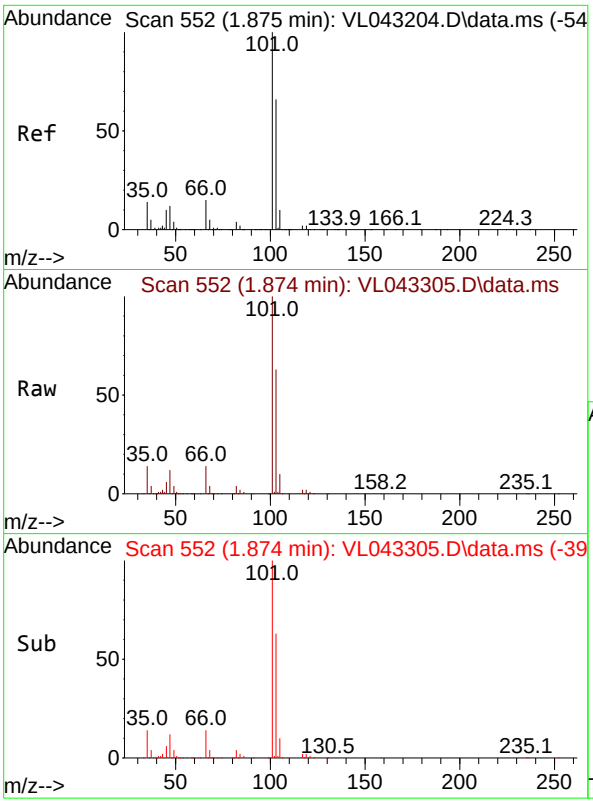


#10
Heptane
Concen: 9.444 ppbv
RT: 4.969 min Scan# 1508
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 43 Resp: 214107

Ion	Ratio	Lower	Upper
43	100		
57	50.0	39.7	59.5



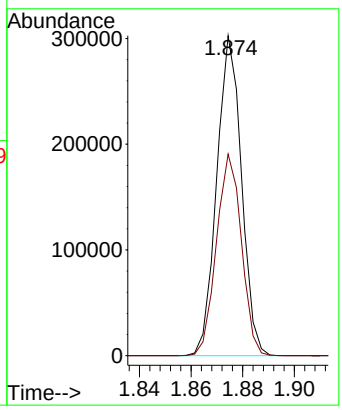


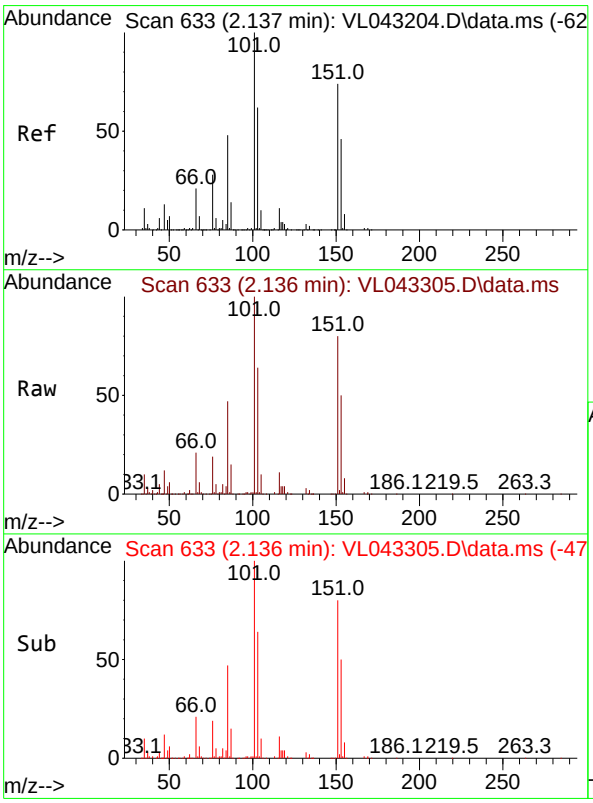
#11
Trichlorofluoromethane
Concen: 11.385 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 201211

Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.6	79.0

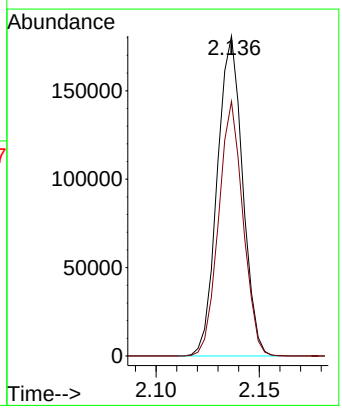


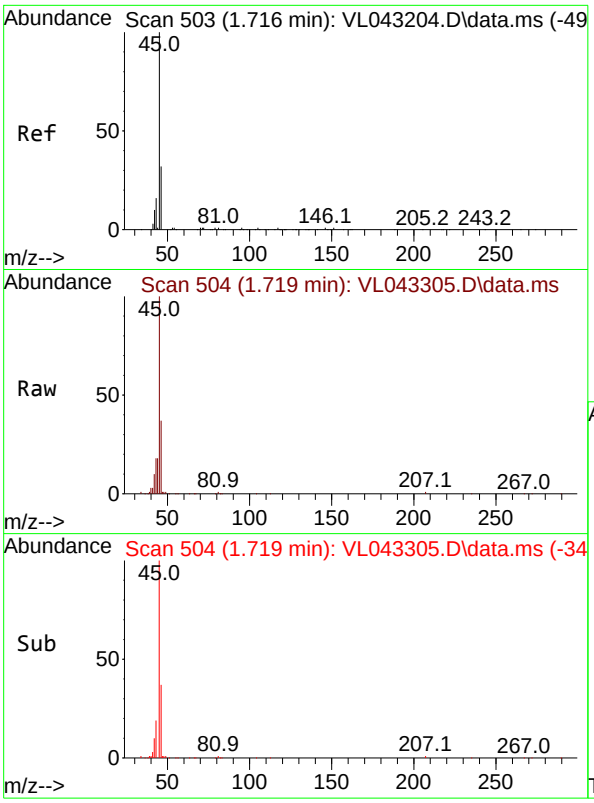


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.178 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:101 Resp: 154240

Ion	Ratio	Lower	Upper
101	100		
151	76.6	59.2	88.8



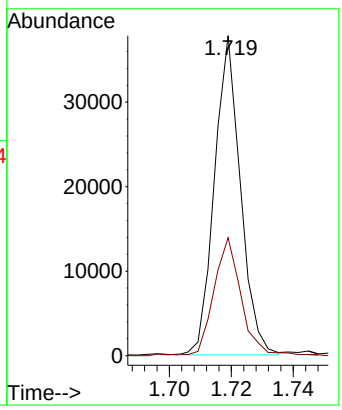


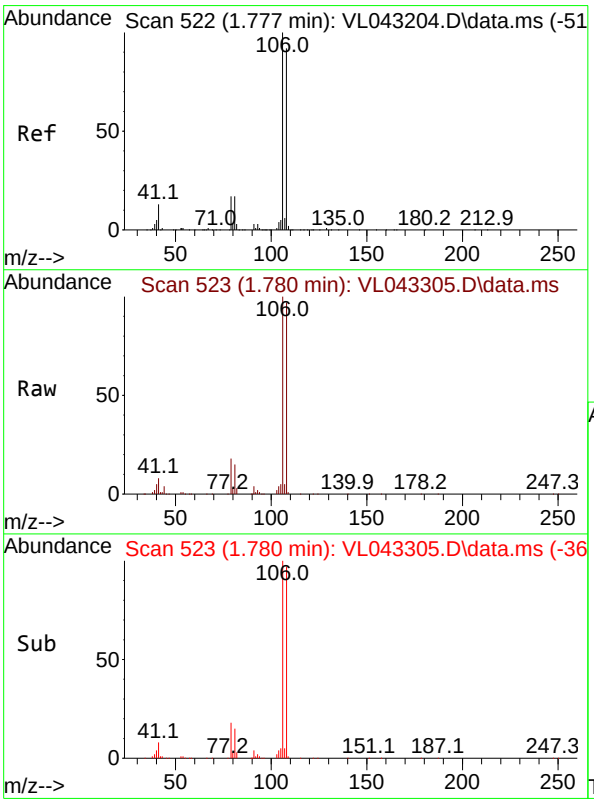
#13
Ethanol
Concen: 8.220 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 22019

Ion	Ratio	Lower	Upper
45	100		
46	39.2	15.0	59.8

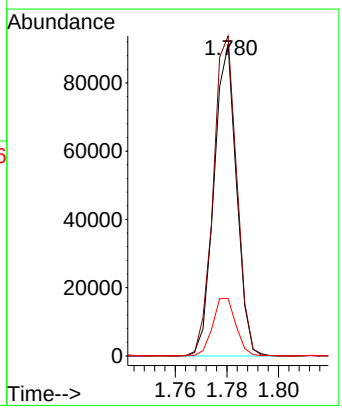


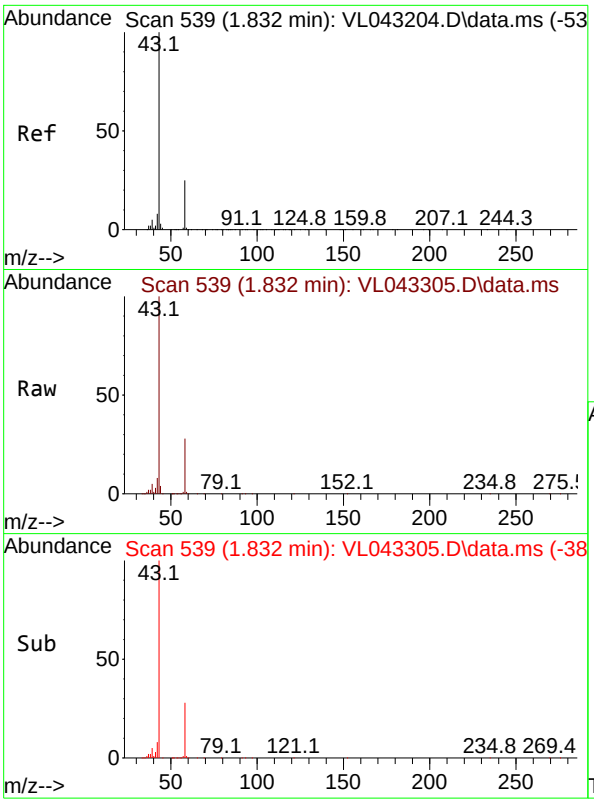


#14
Bromoethene
Concen: 10.465 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:108 Resp: 55354

Ion	Ratio	Lower	Upper
108	100		
106	106.7	88.9	133.3
79	19.4	16.5	24.7



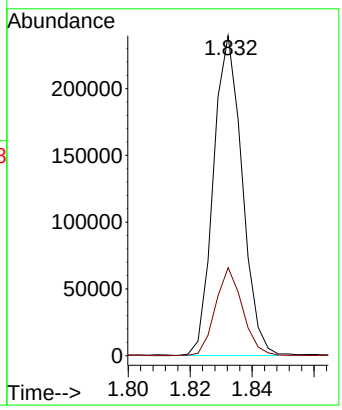


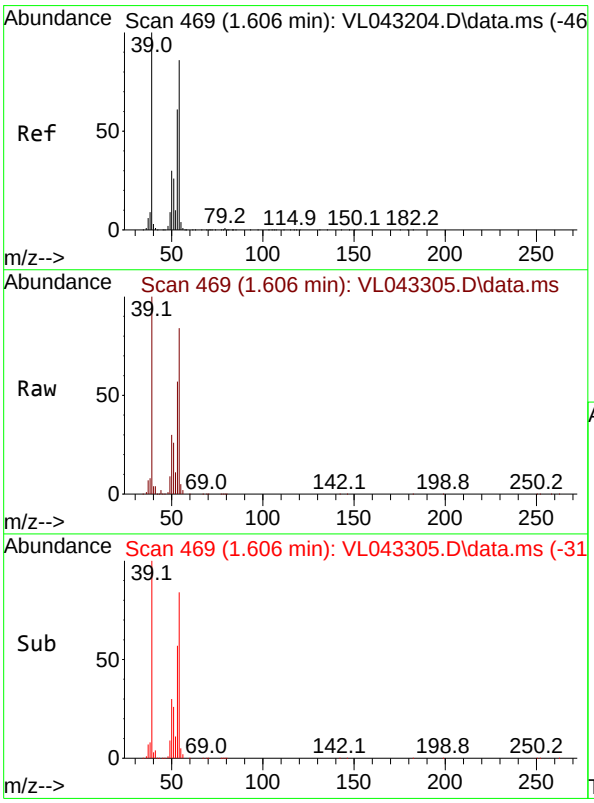
#15
Acetone
Concen: 8.581 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 154196

Ion	Ratio	Lower	Upper
43	100		
58	26.2	20.7	31.1

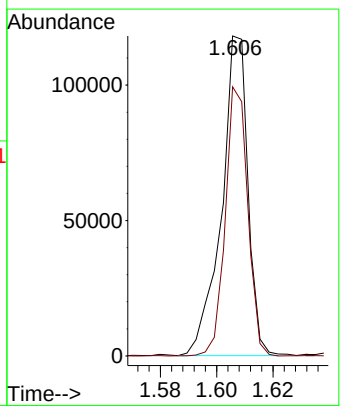


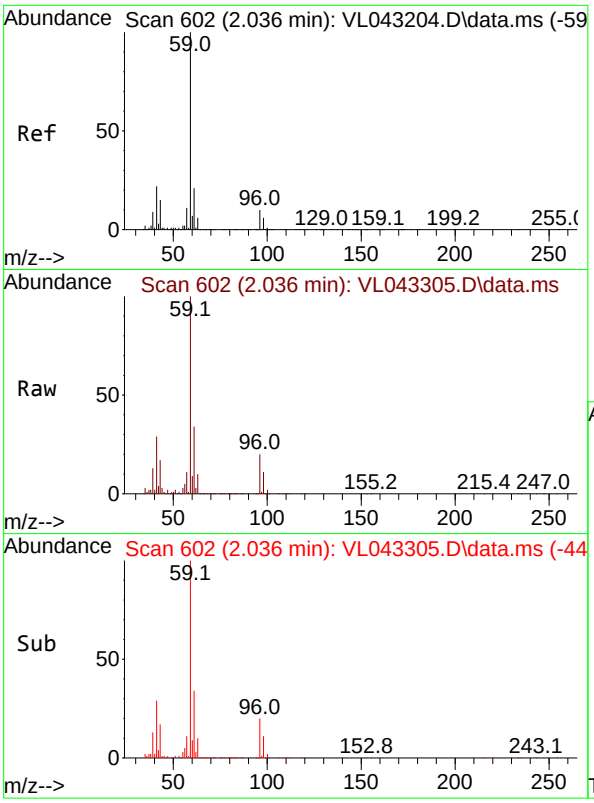


#16
1,3-Butadiene
Concen: 9.600 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 39 Resp: 76902

Ion	Ratio	Lower	Upper
39	100		
54	71.7	59.4	89.2



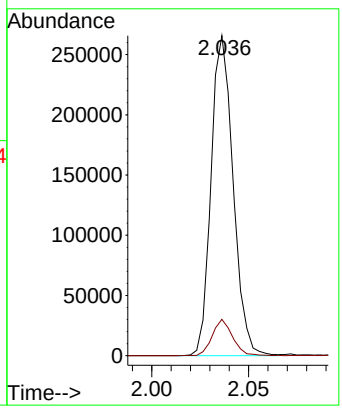


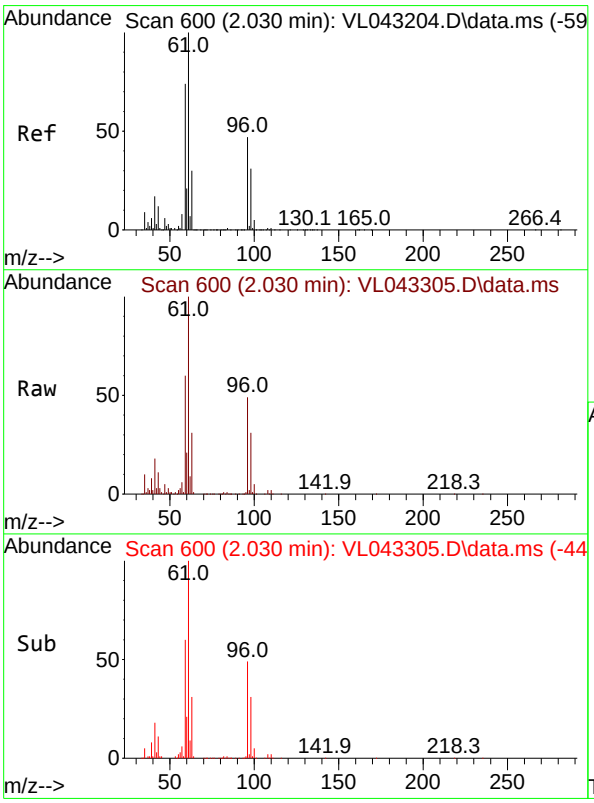
#17
tert-Butyl alcohol
Concen: 8.911 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 210170

Ion	Ratio	Lower	Upper
59	100		
57	10.5	9.0	13.4

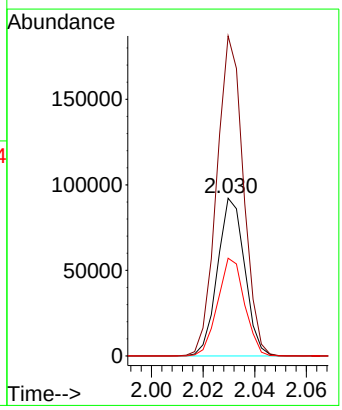


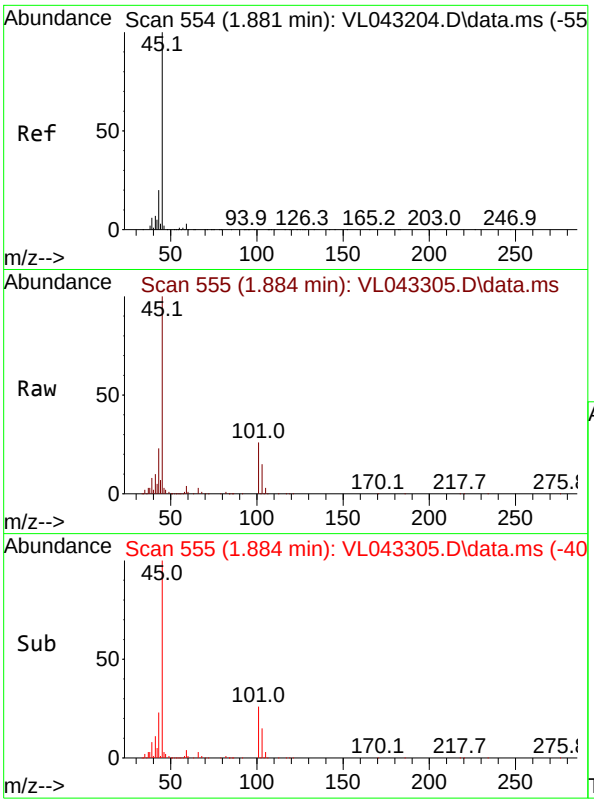


#18
1,1-Dichloroethene
Concen: 10.487 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 96 Resp: 67377

Ion	Ratio	Lower	Upper
96	100		
61	202.7	170.6	255.8
98	62.0	52.2	78.4



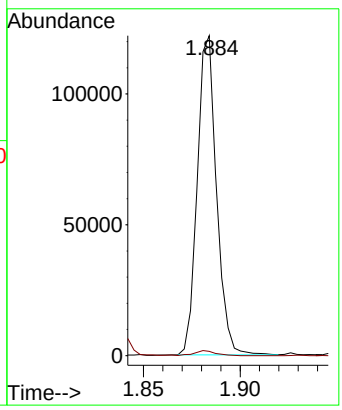


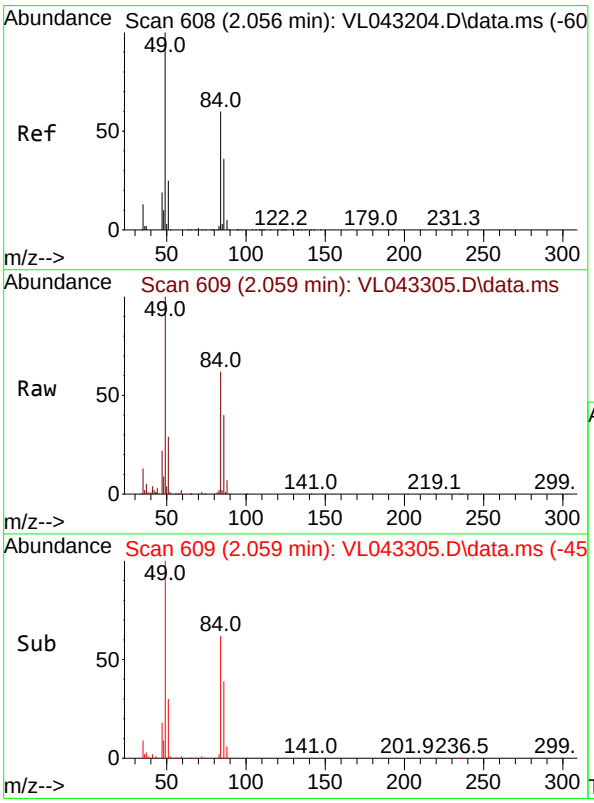
#19
Isopropyl Alcohol
Concen: 8.327 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 84553

Ion	Ratio	Lower	Upper
45	100		
58	47.9	31.3	46.9#

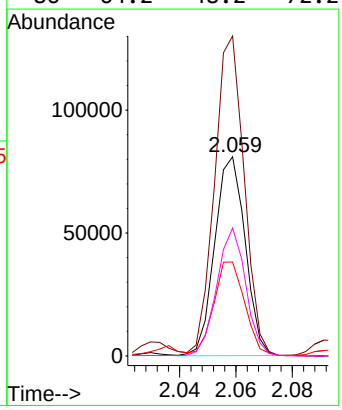


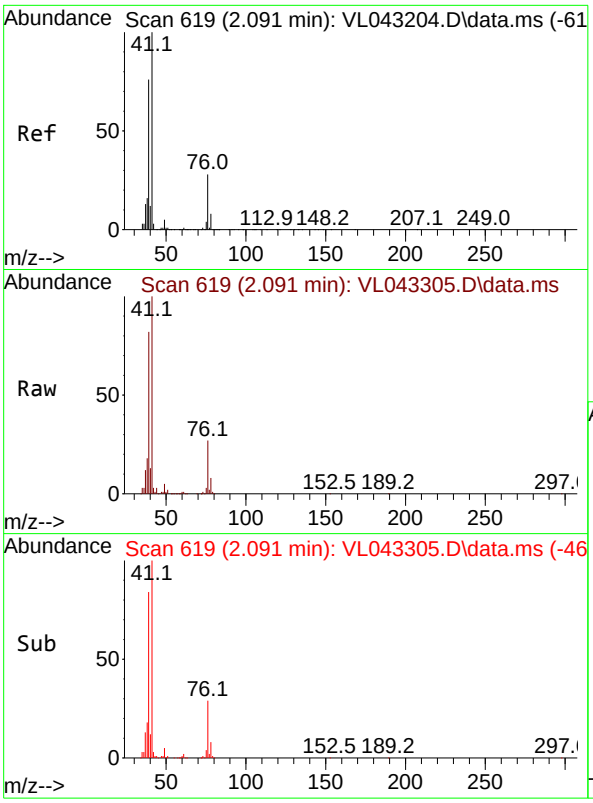


#20
Methylene Chloride
Concen: 11.604 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 84 Resp: 60771

Ion	Ratio	Lower	Upper
84	100		
49	160.8	132.9	199.3
51	47.0	34.8	52.2
86	64.2	48.2	72.2



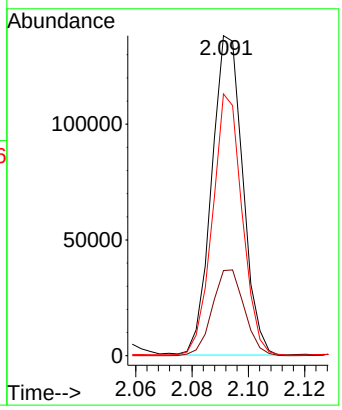


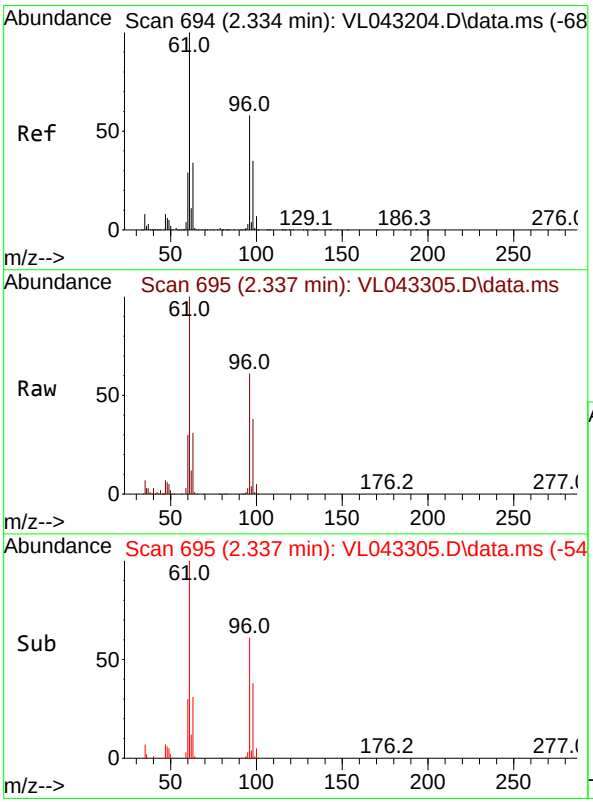
#21
Allyl Chloride
Concen: 8.756 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 41 Resp: 105856

Ion	Ratio	Lower	Upper
41	100		
76	27.6	22.1	33.1
39	78.1	61.0	91.4

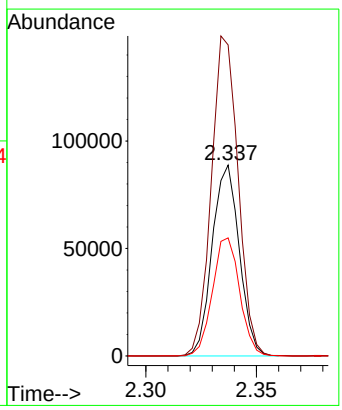


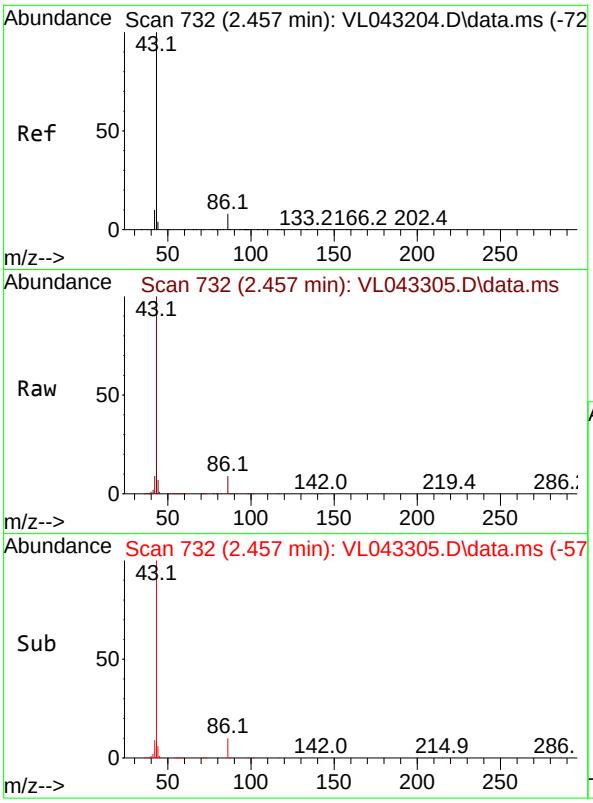


#22
trans-1,2-Dichloroethene
Concen: 10.291 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 96 Resp: 75565

Ion	Ratio	Lower	Upper
96	100		
61	163.0	139.0	208.6
98	61.8	49.4	74.2



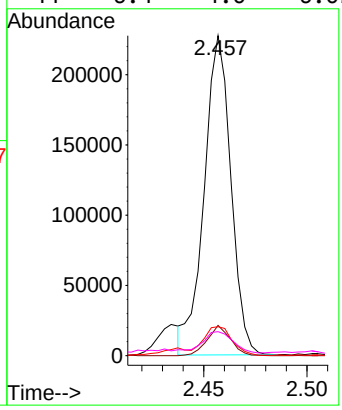


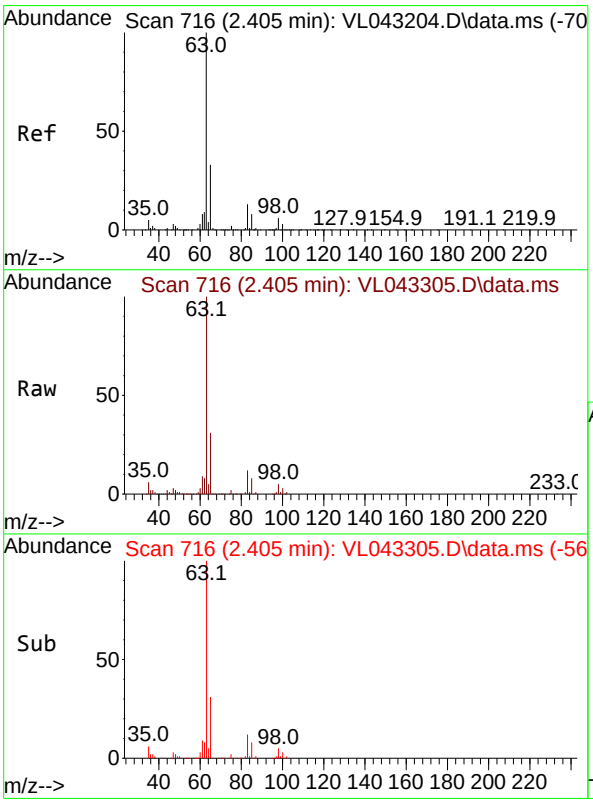
#23
Vinyl Acetate
Concen: 9.424 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 204427

Ion	Ratio	Lower	Upper
43	100		
86	9.5	6.2	9.2#
42	8.6	8.0	12.0
44	6.4	4.0	6.0#

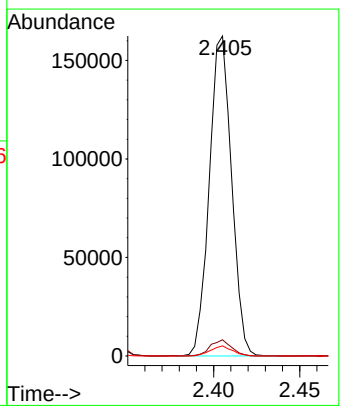


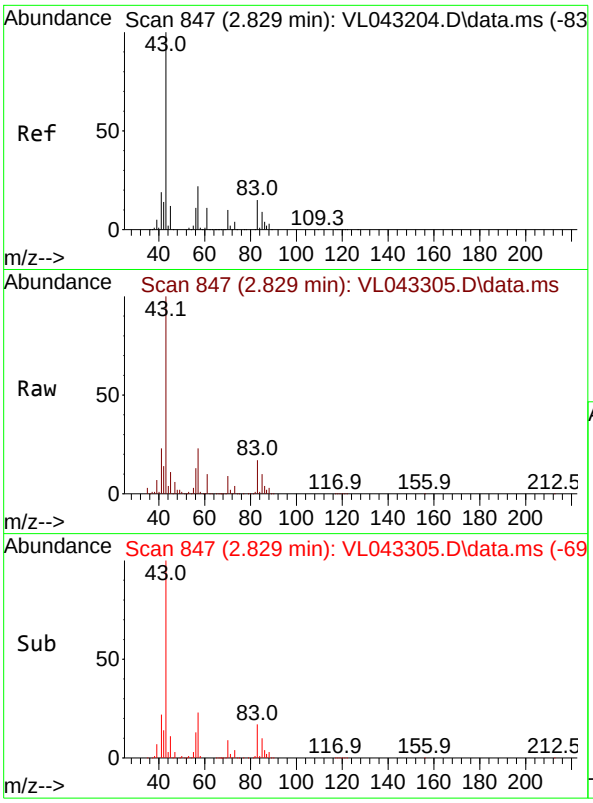


#24
1,1-Dichloroethane
Concen: 10.334 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 63 Resp: 146480

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.8	8.4
100	3.2	1.3	3.9



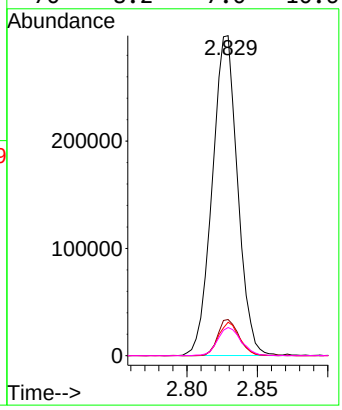


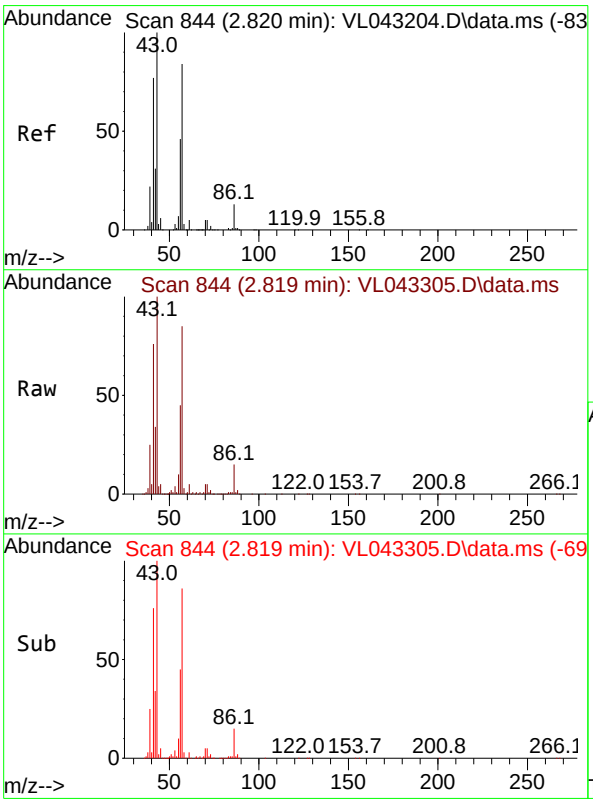
#25
Ethyl Acetate
Concen: 9.630 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 373216

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	8.8	7.0	10.4
70	8.2	7.0	10.6

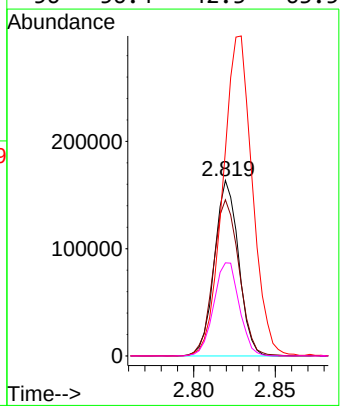


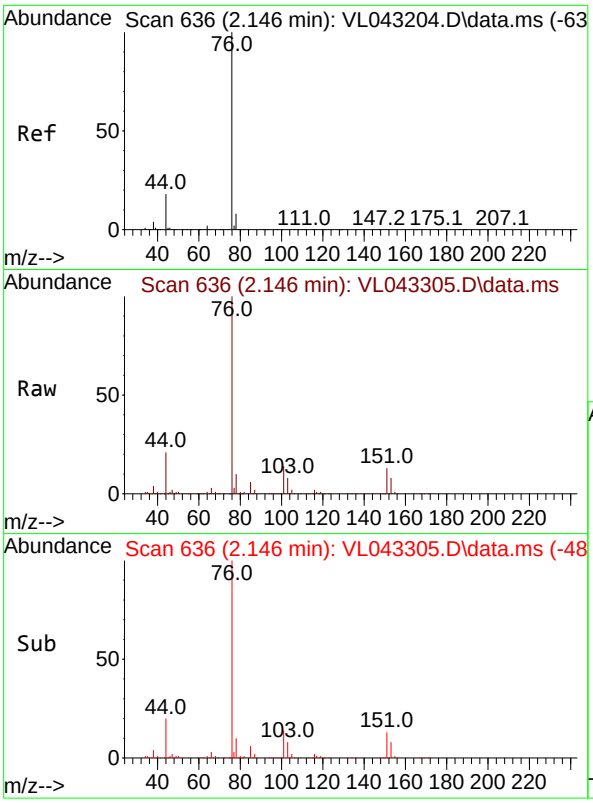


#26
Hexane
Concen: 9.897 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 57 Resp: 168150

Ion	Ratio	Lower	Upper
57	100		
41	95.7	74.6	111.8
43	222.8	179.0	268.4
56	56.4	42.3	63.5



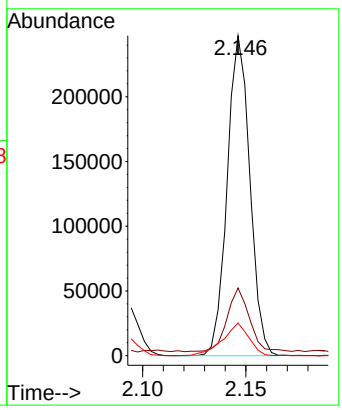


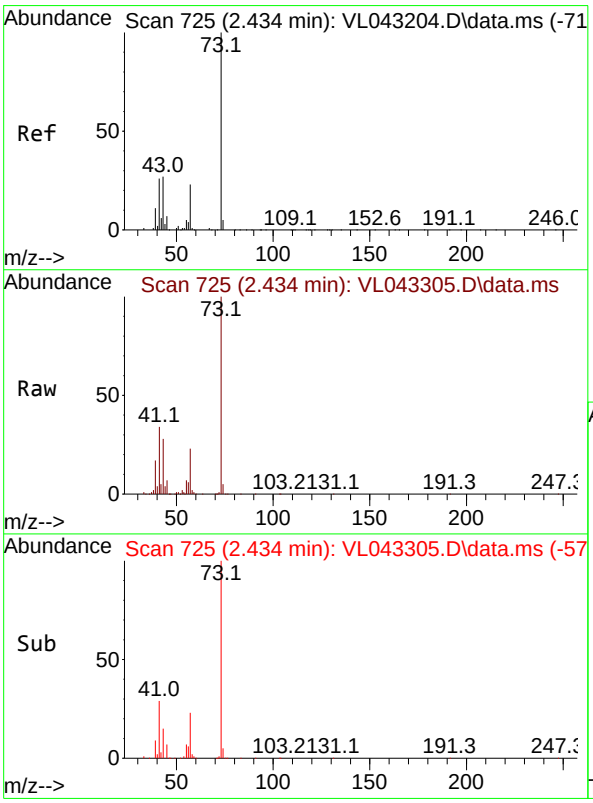
#27
Carbon Disulfide
Concen: 10.878 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 76 Resp: 188702

Ion	Ratio	Lower	Upper
76	100		
44	20.4	16.1	24.1
78	11.8	9.6	14.4

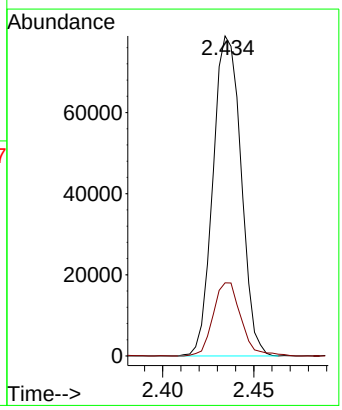


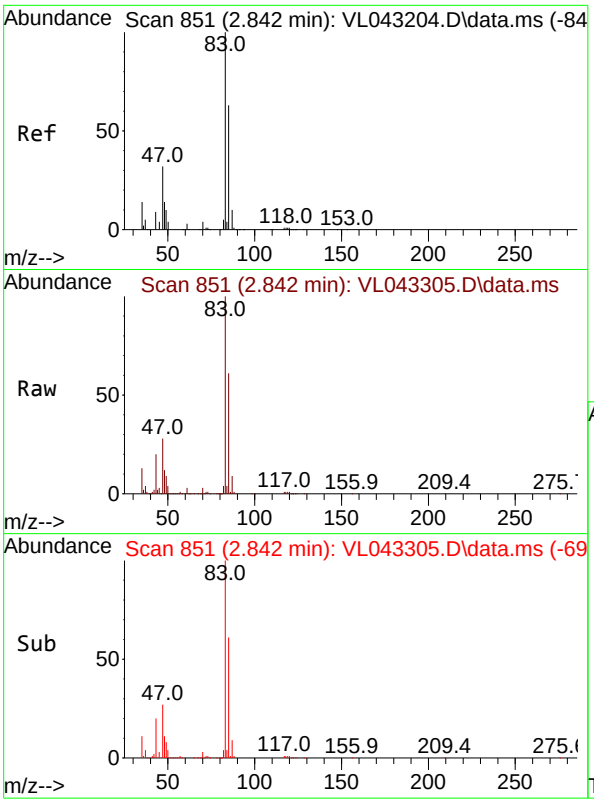


#28
Methyl tert-Butyl Ether
Concen: 10.142 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 73 Resp: 84588

Ion	Ratio	Lower	Upper
73	100		
57	22.7	19.8	29.8



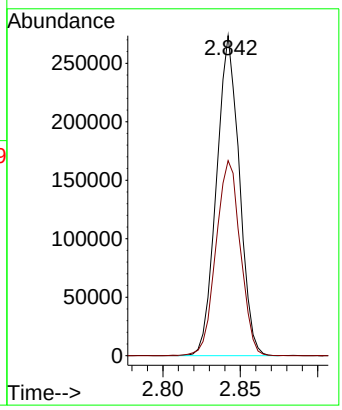


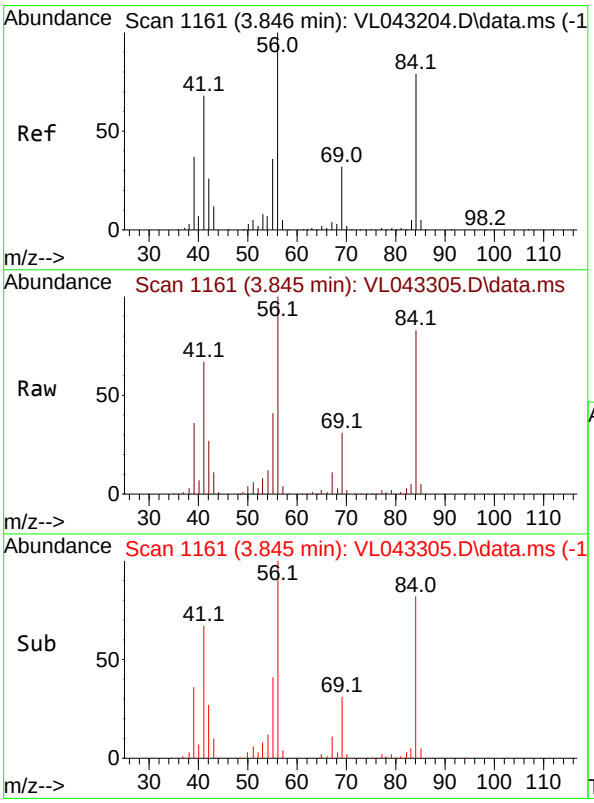
#29
Chloroform
Concen: 11.610 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 280385

Ion	Ratio	Lower	Upper
83	100		
85	60.9	50.5	75.7

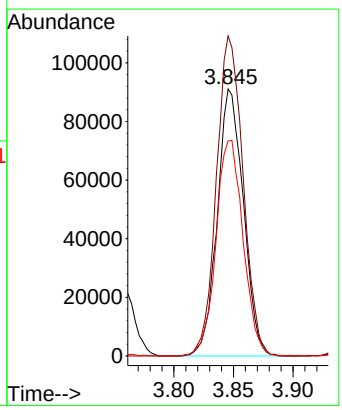


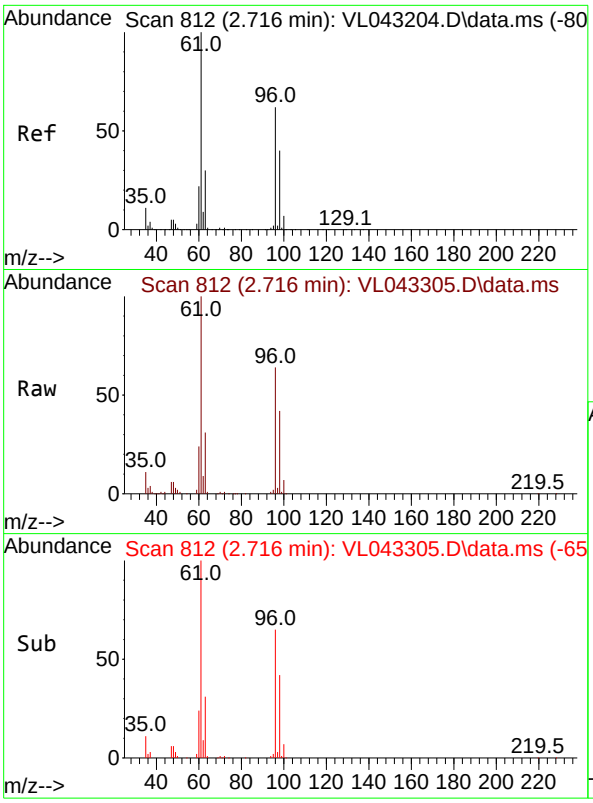


#30
Cyclohexane
Concen: 9.731 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 84 Resp: 138616

Ion	Ratio	Lower	Upper
84	100		
56	121.7	104.7	157.1
41	84.0	69.0	103.6



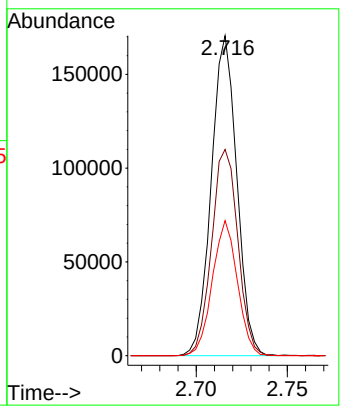


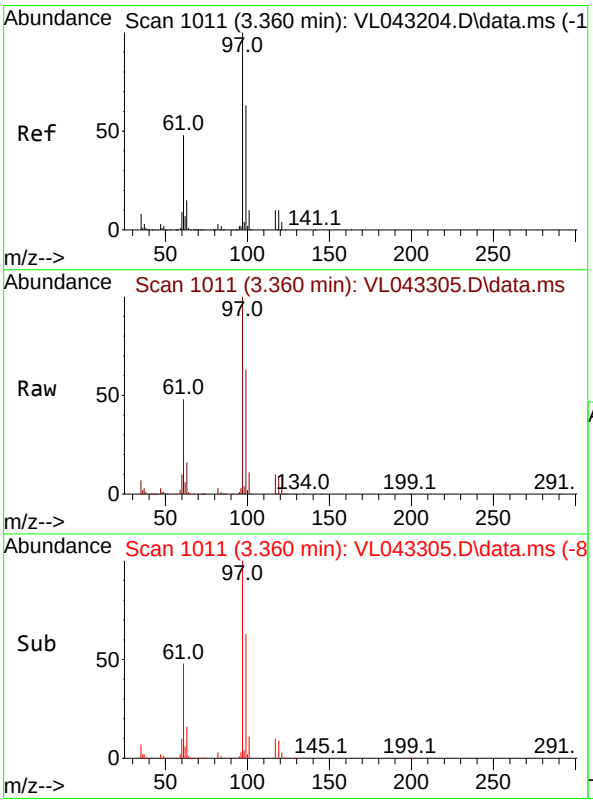
#31
cis-1,2-Dichloroethene
Concen: 9.853 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 61 Resp: 166393

Ion	Ratio	Lower	Upper
61	100		
96	64.4	49.3	73.9
98	42.2	32.1	48.1

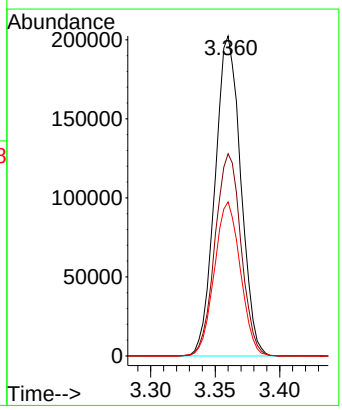


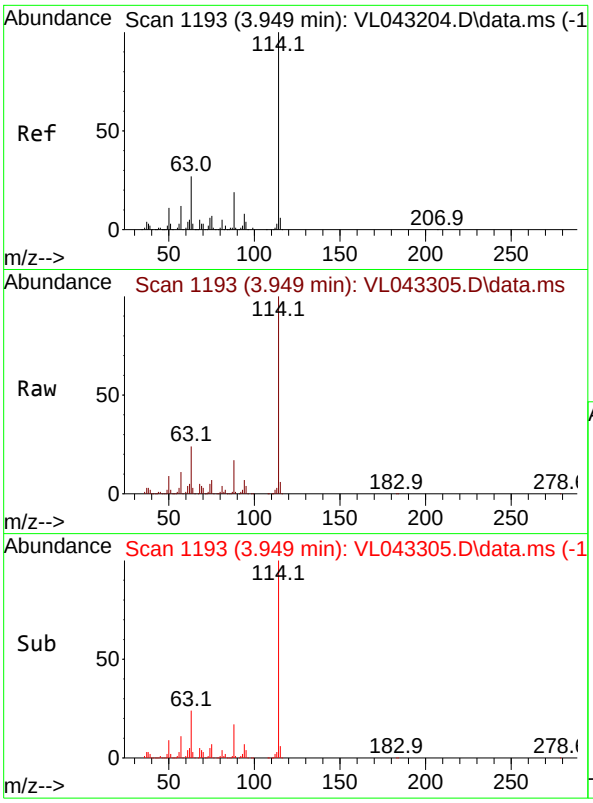


#32
1,1,1-Trichloroethane
Concen: 10.886 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 97 Resp: 280239

Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.3	75.5
61	48.7	38.9	58.3



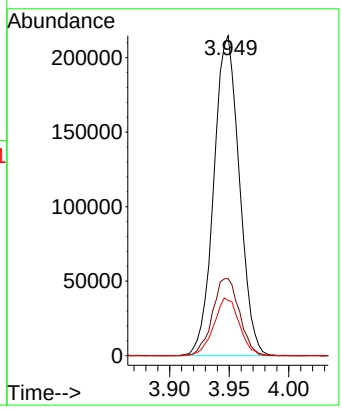


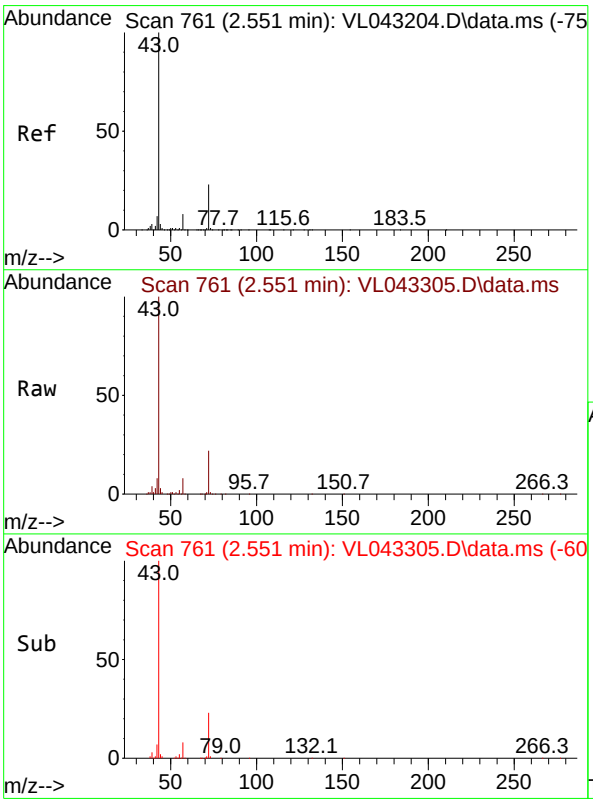
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:114 Resp: 319801

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.0	31.6
88	18.0	14.9	22.3

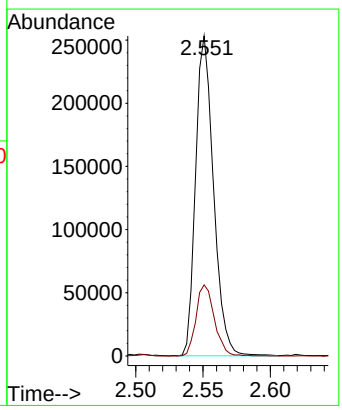


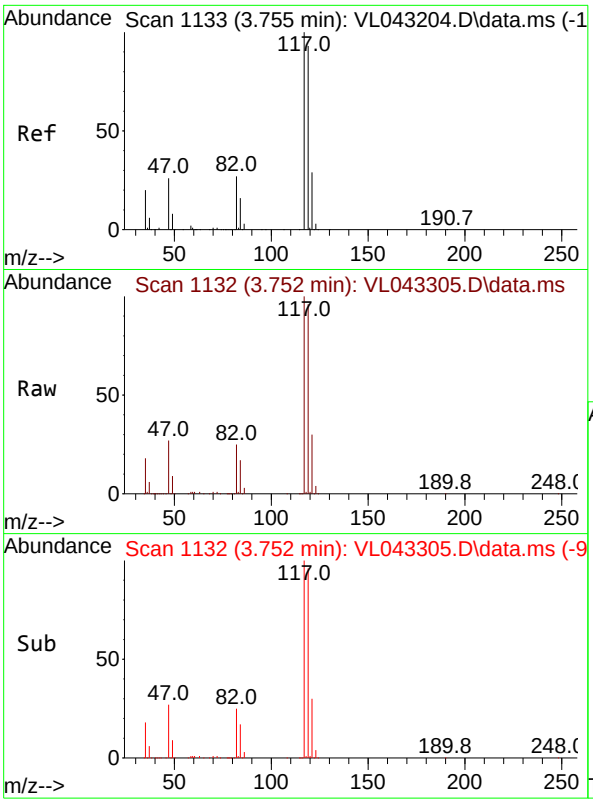


#34
2-Butanone
Concen: 10.392 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 43 Resp: 234600

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.1	27.1



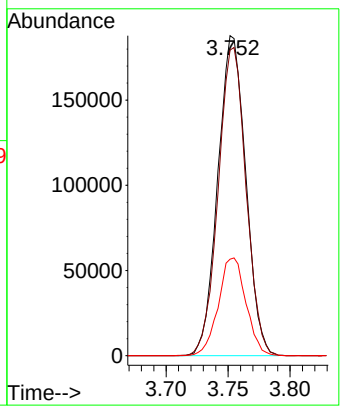


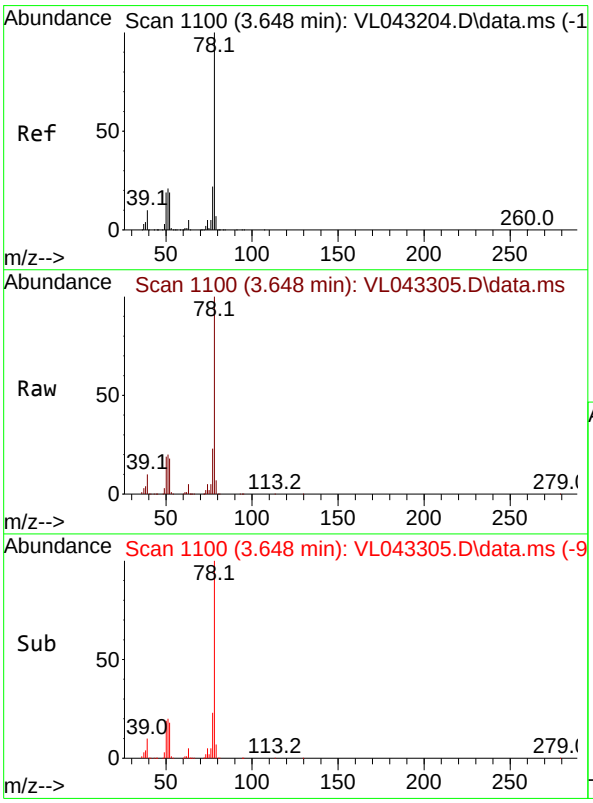
#35
Carbon Tetrachloride
Concen: 12.149 ppbv
RT: 3.752 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 294900

Ion	Ratio	Lower	Upper
117	100		
119	95.5	74.6	112.0
121	30.1	23.2	34.8

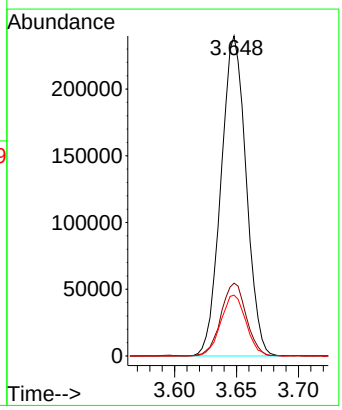


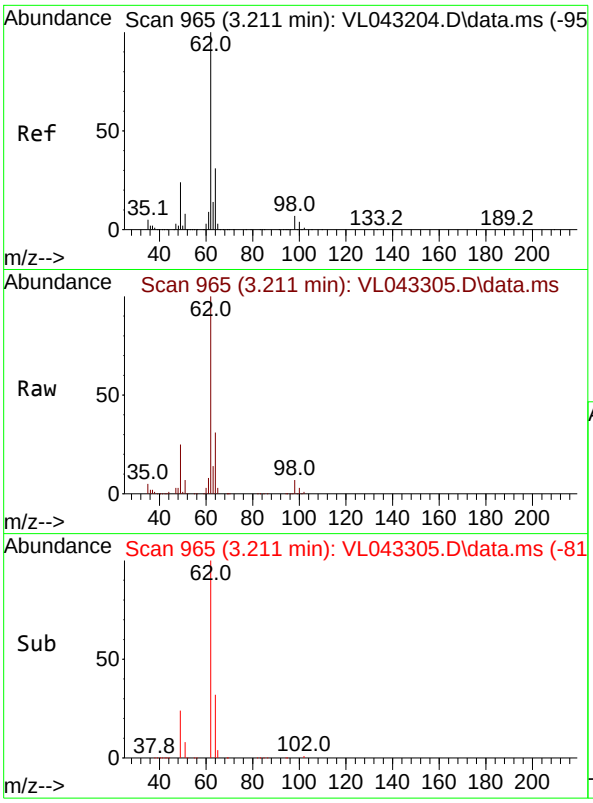


#36
Benzene
Concen: 11.074 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 78 Resp: 339149

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.5	26.3
50	19.0	15.5	23.3



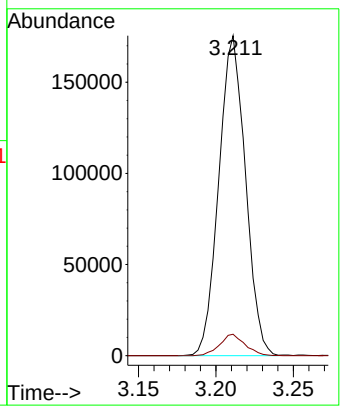


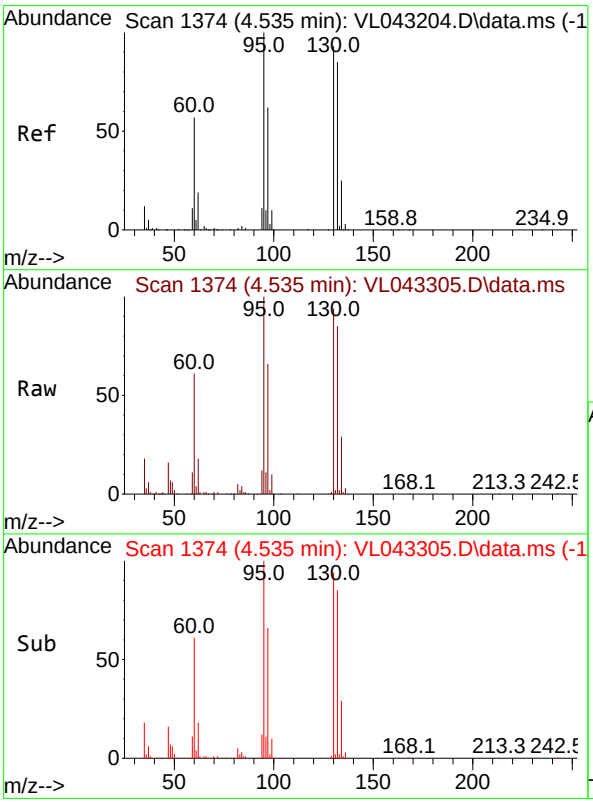
#37
1,2-Dichloroethane
Concen: 11.721 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 209977

Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.5	8.3

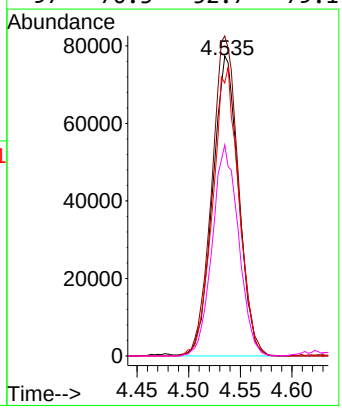


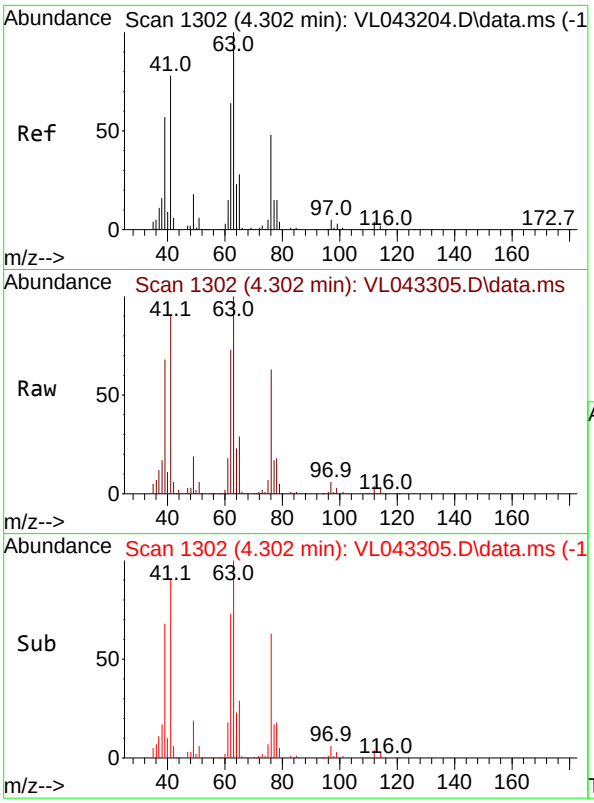


#38
Trichloroethene
Concen: 11.309 ppbv
RT: 4.535 min Scan# 1374
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:130 Resp: 135509

Ion	Ratio	Lower	Upper
130	100		
95	106.7	85.7	128.5
132	90.9	73.4	110.0
97	70.3	52.7	79.1



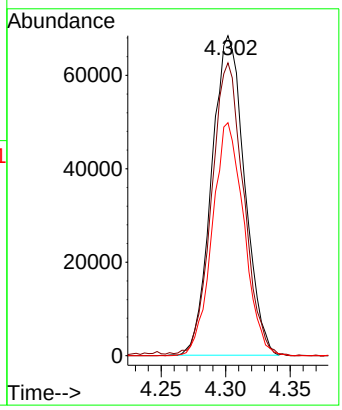


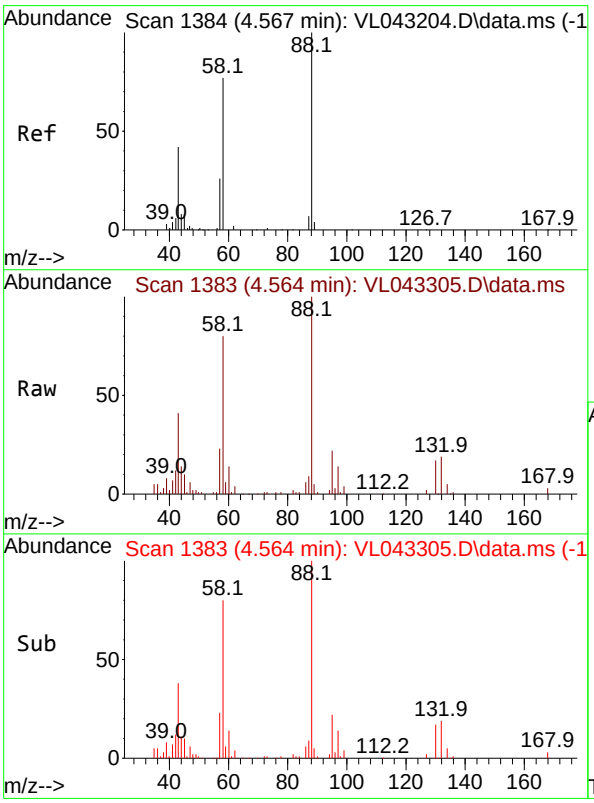
#39
1,2-Dichloropropane
Concen: 10.827 ppbv
RT: 4.302 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 63 Resp: 121360

Ion	Ratio	Lower	Upper
63	100		
41	91.0	62.6	93.8
62	72.5	51.0	76.6

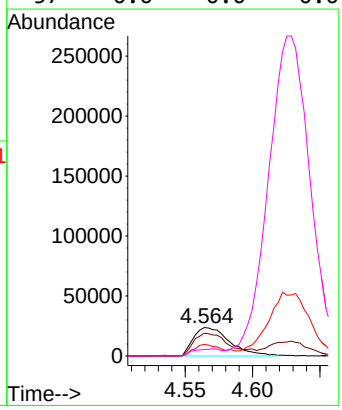


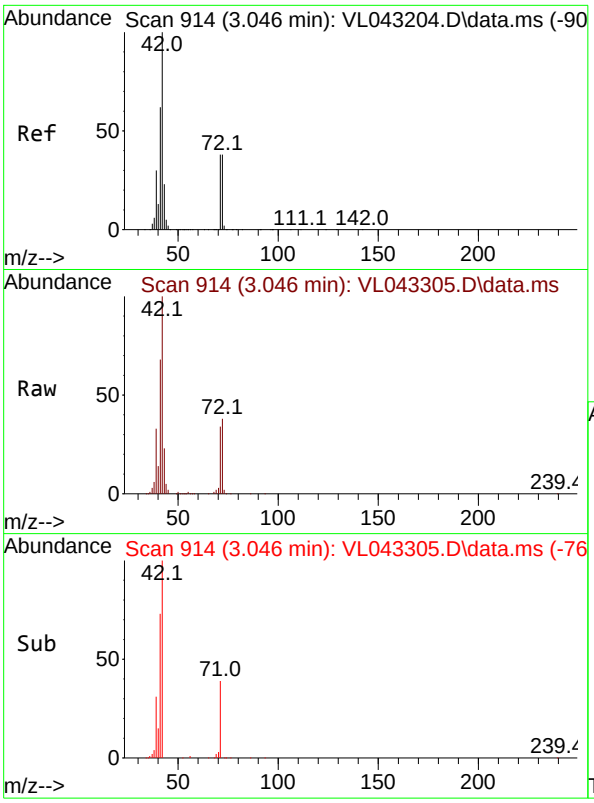


#40
1,4-Dioxane
Concen: 8.836 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 88 Resp: 44522

Ion	Ratio	Lower	Upper
88	100		
58	80.4	63.0	94.6
43	38.4	32.5	48.7
57	0.0	0.0	0.0



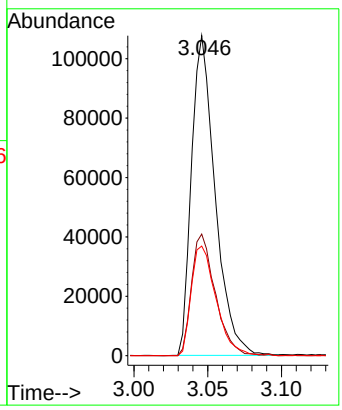


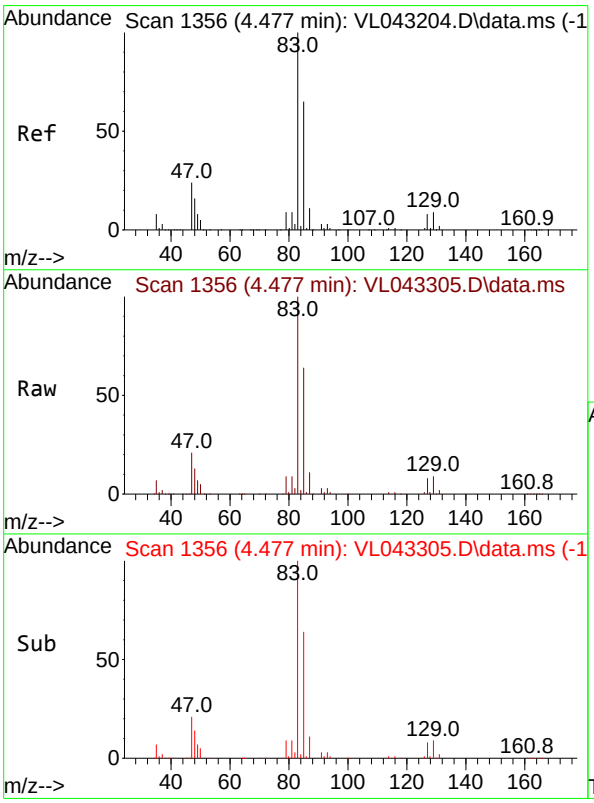
#41
Tetrahydrofuran
Concen: 9.628 ppbv
RT: 3.046 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 42 Resp: 120028

Ion	Ratio	Lower	Upper
42	100		
72	38.4	30.6	46.0
71	36.1	30.5	45.7

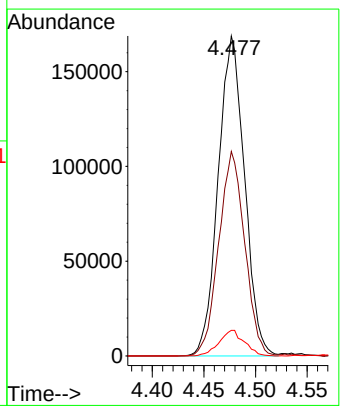


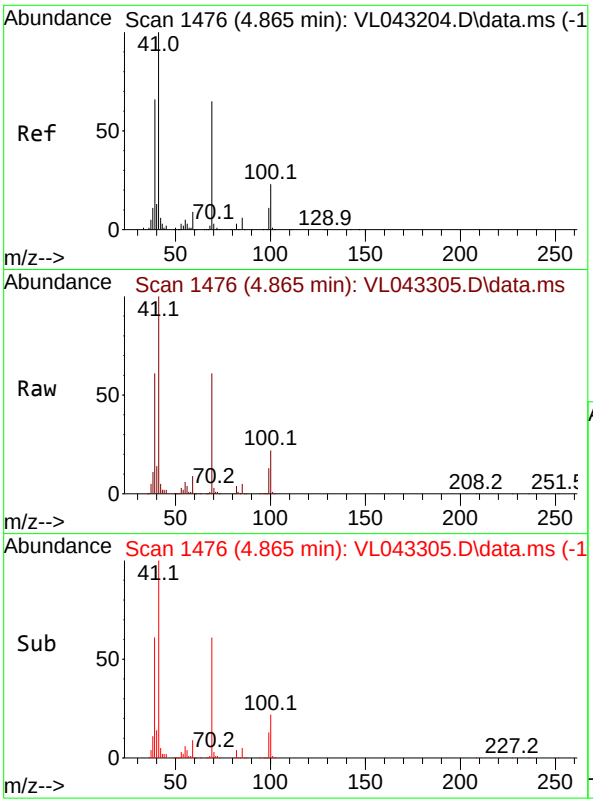


#42
Bromodichloromethane
Concen: 12.136 ppbv
RT: 4.477 min Scan# 1356
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 83 Resp: 299904

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.7	77.5
127	8.0	6.3	9.5



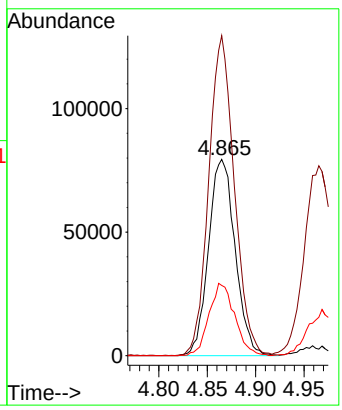


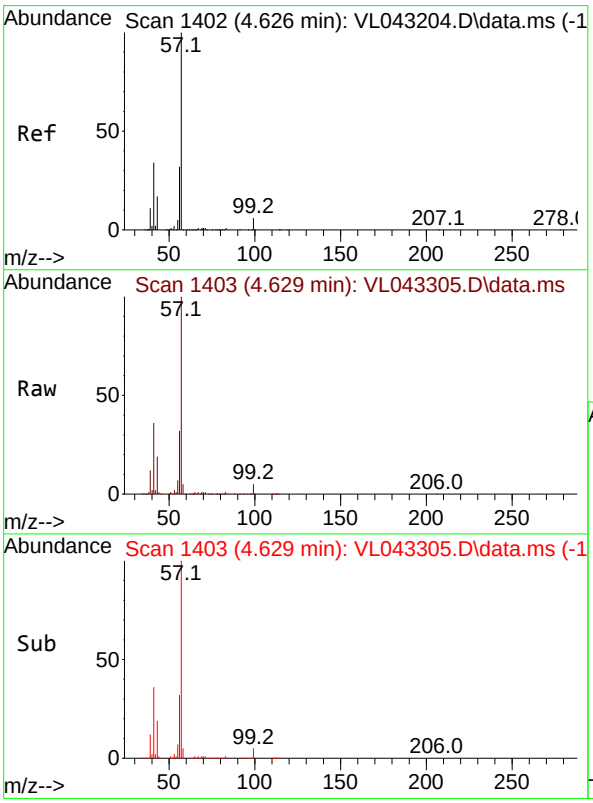
#43
Methyl Methacrylate
Concen: 9.361 ppbv
RT: 4.865 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 152174

Ion	Ratio	Lower	Upper
69	100		
41	155.9	126.7	190.1
100	35.6	28.6	43.0

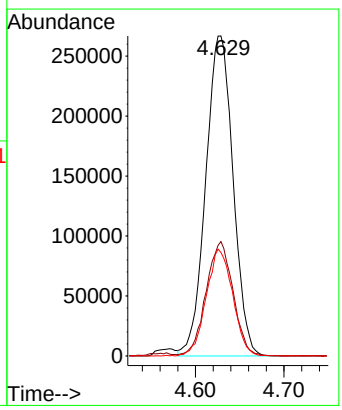


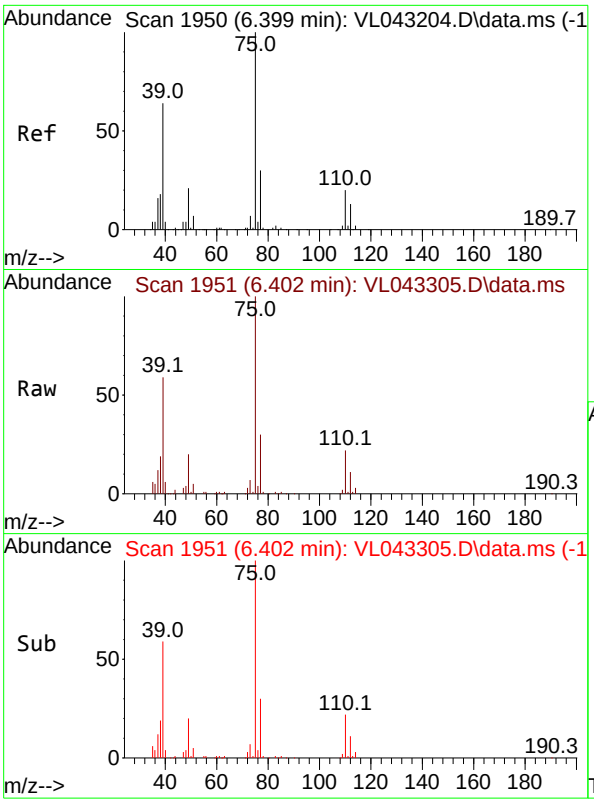


#44
2,2,4-Trimethylpentane
Concen: 10.909 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 57 Resp: 573790

Ion	Ratio	Lower	Upper
57	100		
41	36.1	28.0	42.0
56	32.4	25.6	38.4



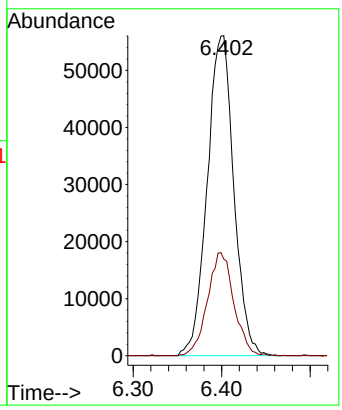


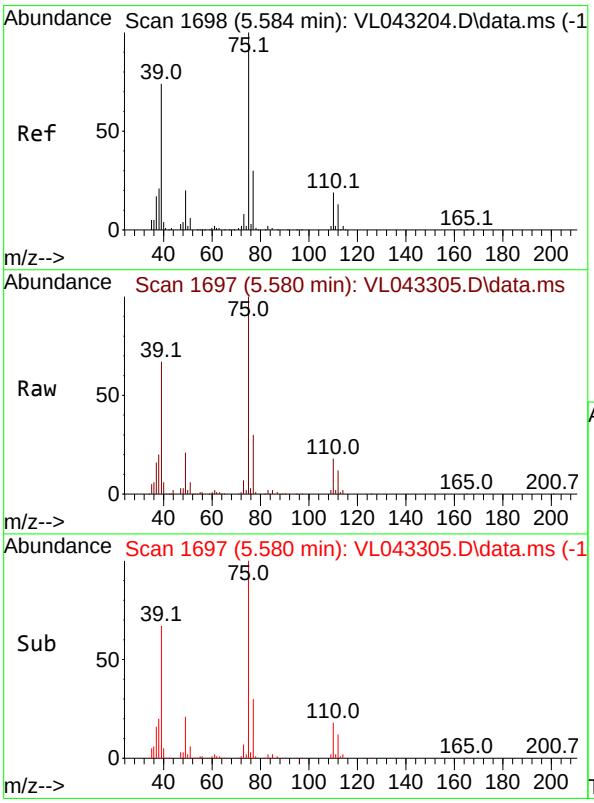
#45
t-1,3-Dichloropropene
Concen: 7.729 ppbv
RT: 6.402 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 117128

Ion	Ratio	Lower	Upper
75	100		
77	30.1	24.3	36.5

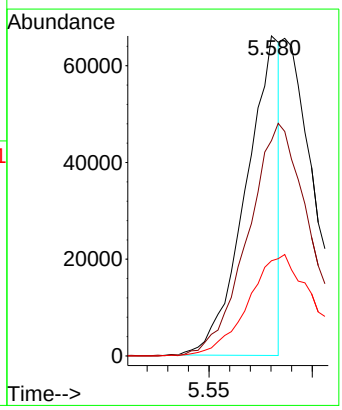


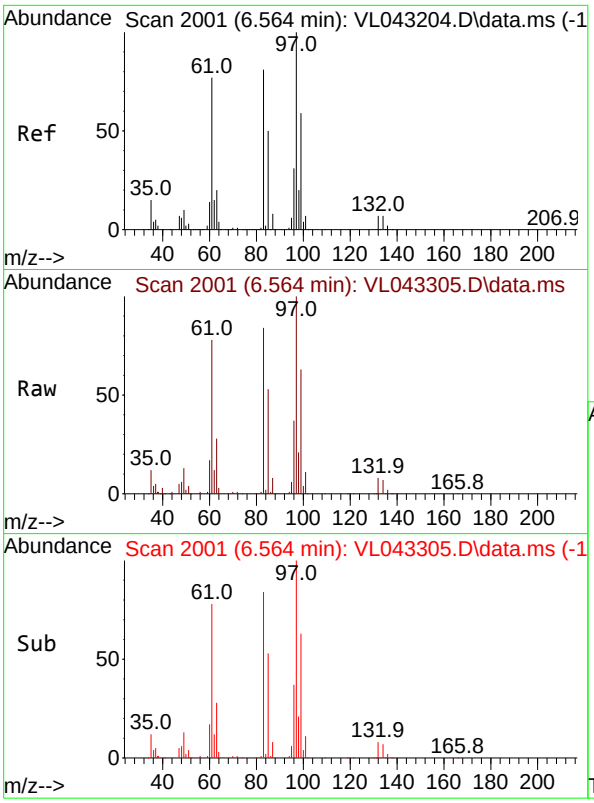


#46
cis-1,3-Dichloropropene
Concen: 4.224 ppbv
RT: 5.580 min Scan# 1697
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 75 Resp: 75161

Ion	Ratio	Lower	Upper
75	100		
39	67.4	59.1	88.7
77	29.6	24.2	36.2



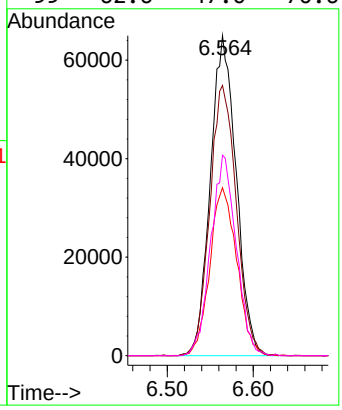


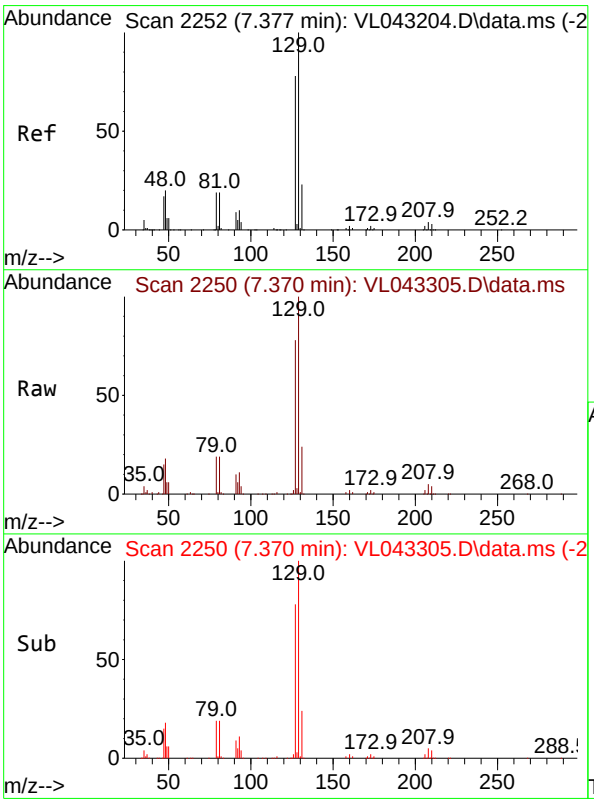
#47
1,1,2-Trichloroethane
Concen: 11.381 ppbv
RT: 6.564 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 97 Resp: 135385

Ion	Ratio	Lower	Upper
97	100		
83	84.4	64.6	97.0
85	52.5	39.4	59.2
99	62.6	47.0	70.6

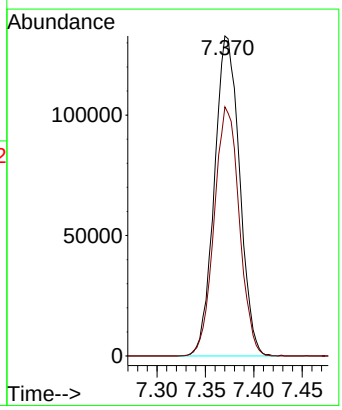


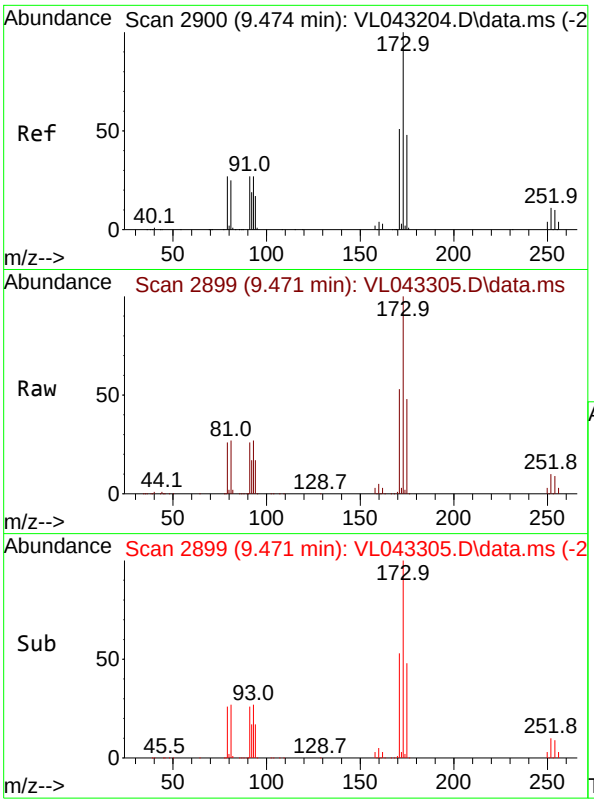


#48
Dibromochloromethane
Concen: 11.753 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. -0.007 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:129 Resp: 240386

Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.3	117.9



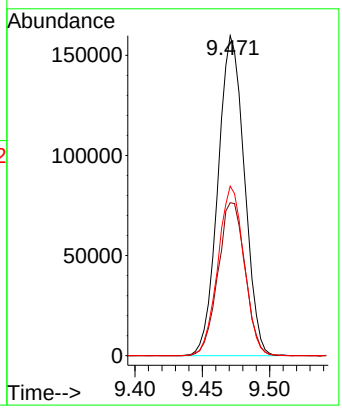


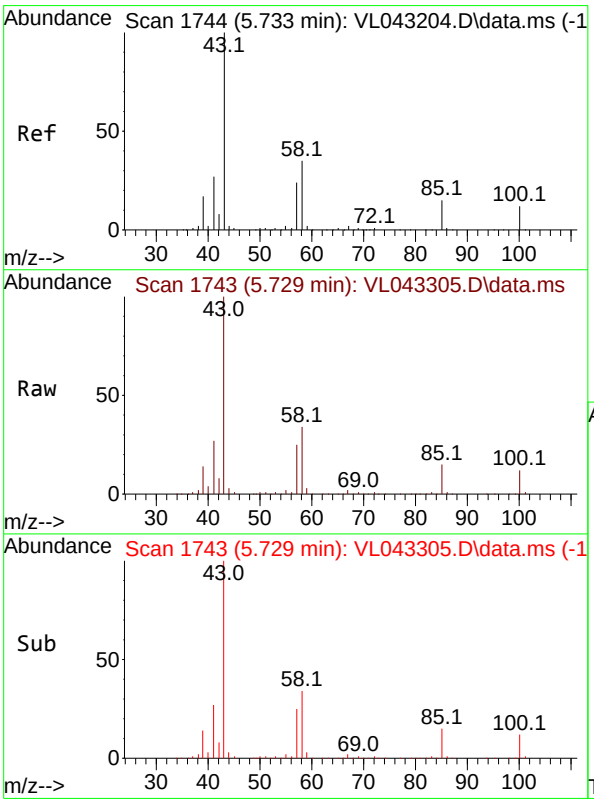
#49
Bromoform
Concen: 12.018 ppbv
RT: 9.471 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 217719

Ion	Ratio	Lower	Upper
173	100		
175	49.1	38.6	58.0
171	52.5	40.6	61.0

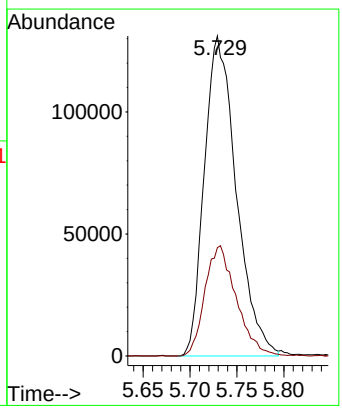


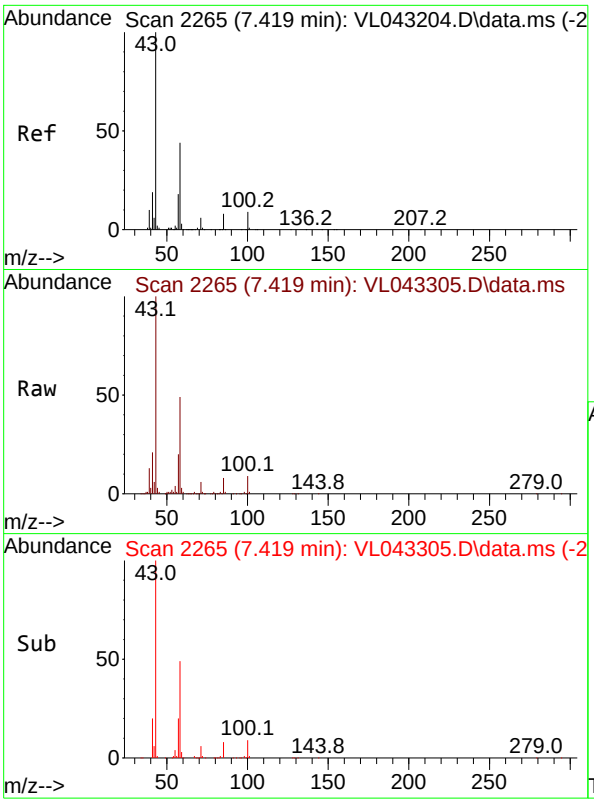


#50
4-Methyl-2-Pentanone
Concen: 9.749 ppbv
RT: 5.729 min Scan# 1743
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 43 Resp: 310023

Ion	Ratio	Lower	Upper
43	100		
58	34.0	28.4	42.6



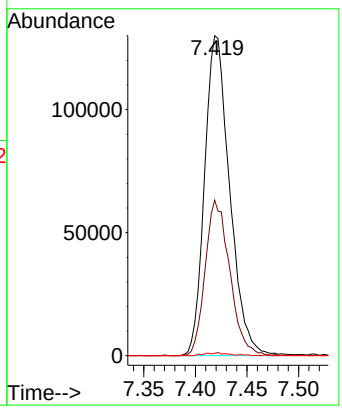


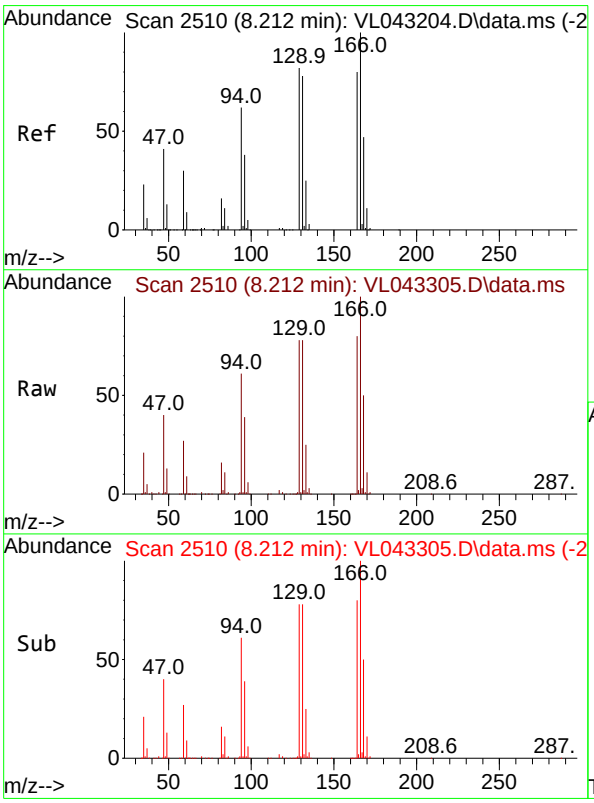
#51
2-Hexanone
Concen: 8.905 ppbv
RT: 7.419 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 219906

Ion	Ratio	Lower	Upper
43	100		
58	47.6	38.4	57.6
98	1.0	0.0	0.0#

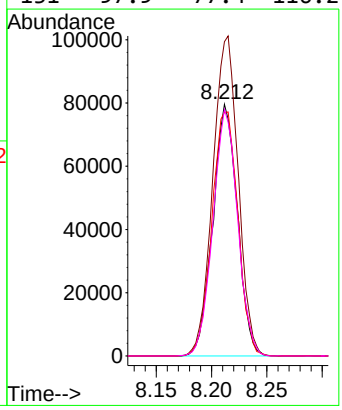


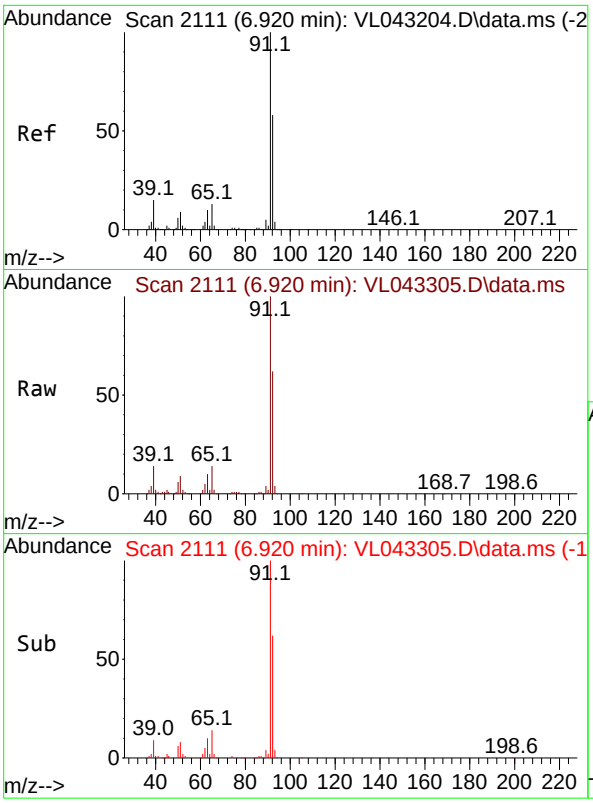


#52
Tetrachloroethene
Concen: 10.813 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:164 Resp: 123188

Ion	Ratio	Lower	Upper
164	100		
166	124.8	99.4	149.2
129	96.7	81.8	122.8
131	97.9	77.4	116.2



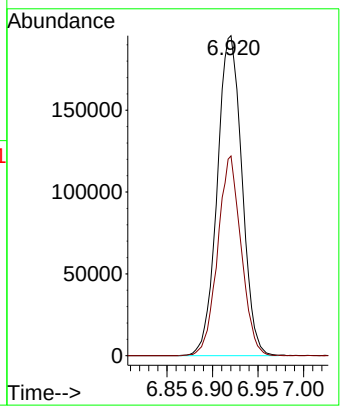


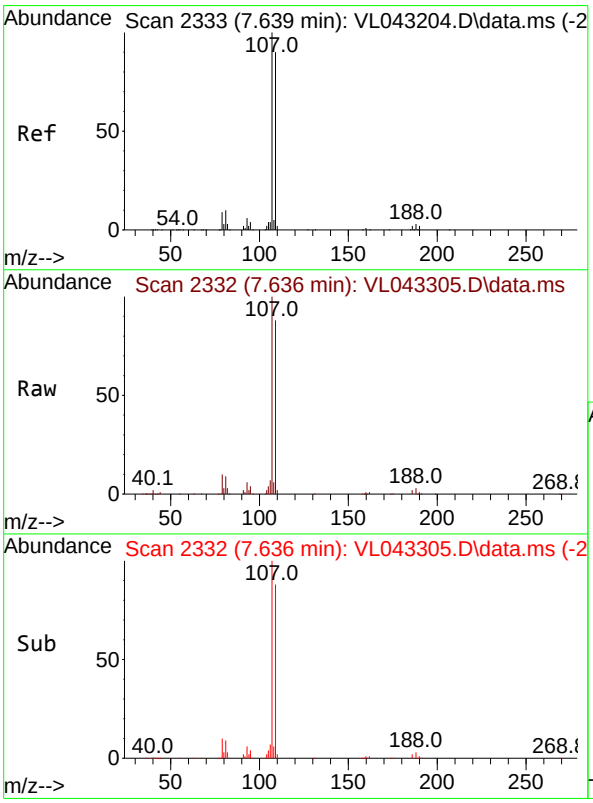
#53
Toluene
Concen: 10.165 ppbv
RT: 6.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 368638

Ion	Ratio	Lower	Upper
91	100		
92	59.4	47.4	71.0

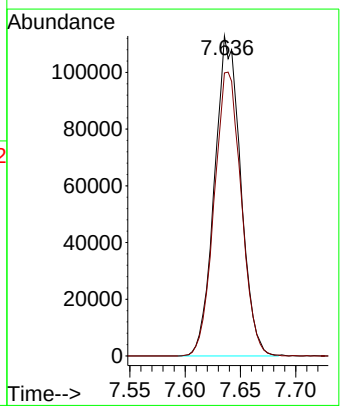


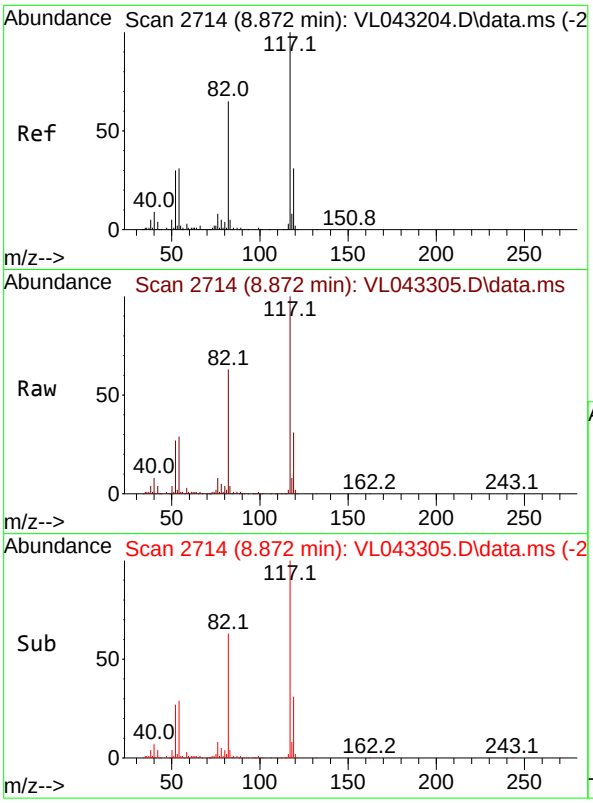


#54
1,2-Dibromoethane
Concen: 10.583 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:107 Resp: 185272

Ion	Ratio	Lower	Upper
107	100		
109	88.4	72.1	108.1



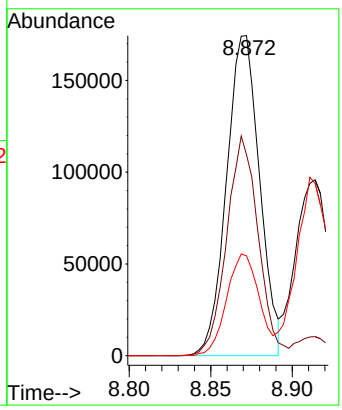


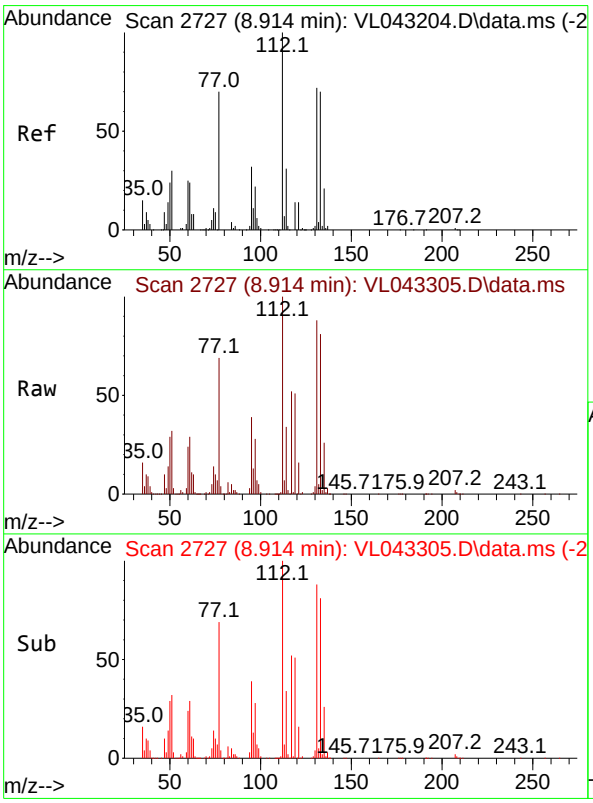
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 246102

Ion	Ratio	Lower	Upper
117	100		
82	71.1	56.1	84.1
119	30.4	25.0	37.6

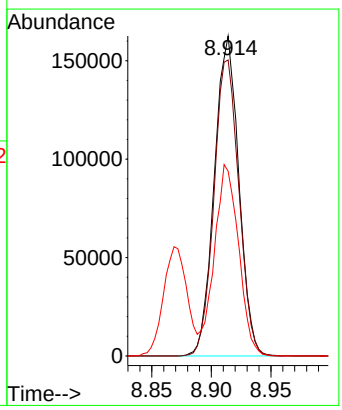


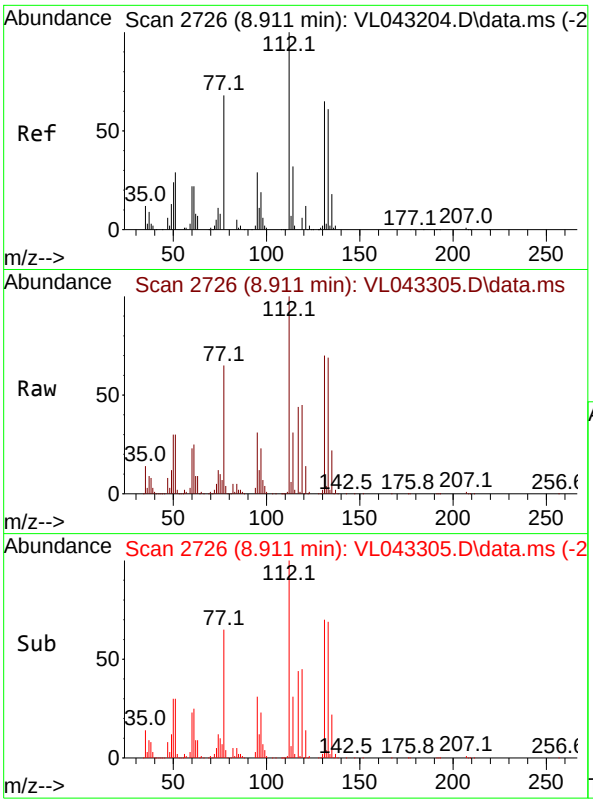


#56
1,1,1,2-Tetrachloroethane
Concen: 12.819 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:131 Resp: 231860

Ion	Ratio	Lower	Upper
131	100		
133	94.4	77.4	116.2
119	58.4	49.1	73.7



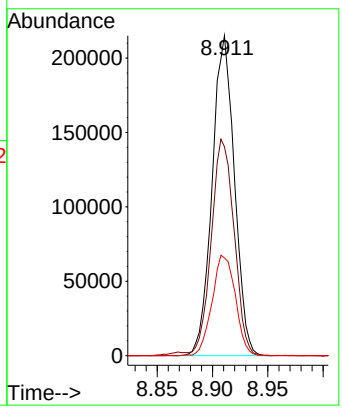


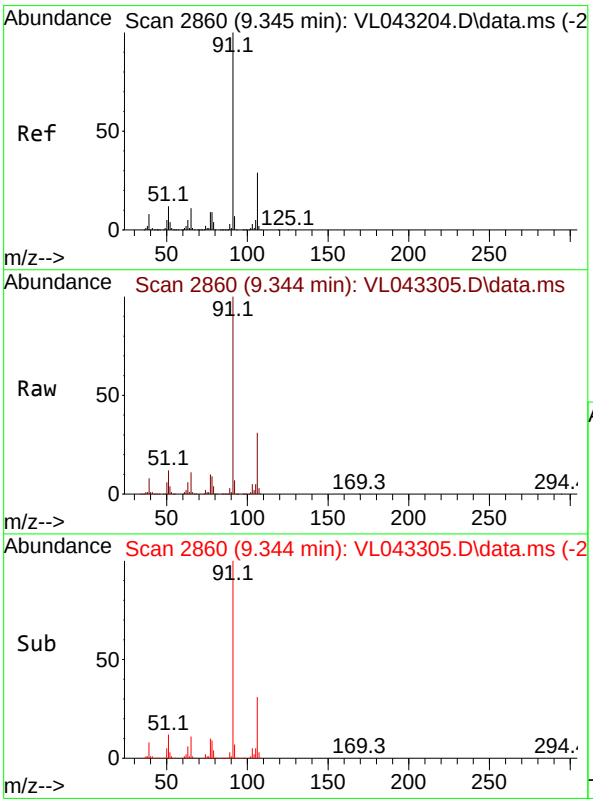
#57
Chlorobenzene
Concen: 11.943 ppbv
RT: 8.911 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:112 Resp: 301763

Ion	Ratio	Lower	Upper
112	100		
77	65.2	55.5	83.3
114	30.6	29.1	35.5

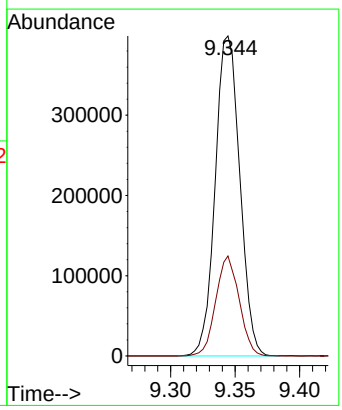


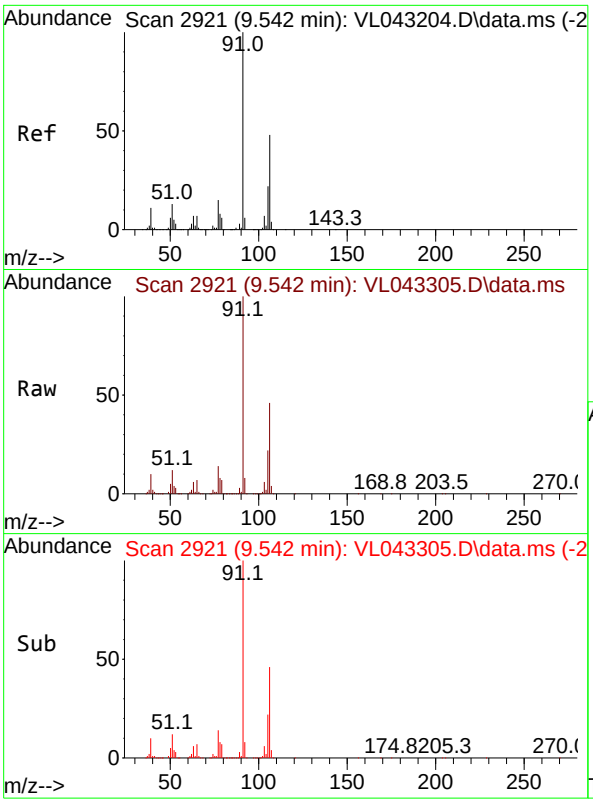


#58
Ethyl Benzene
Concen: 11.146 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 91 Resp: 527984

Ion	Ratio	Lower	Upper
91	100		
106	31.2	22.8	34.2



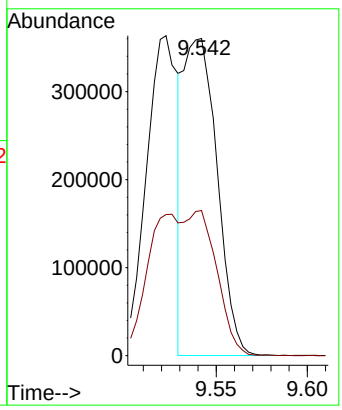


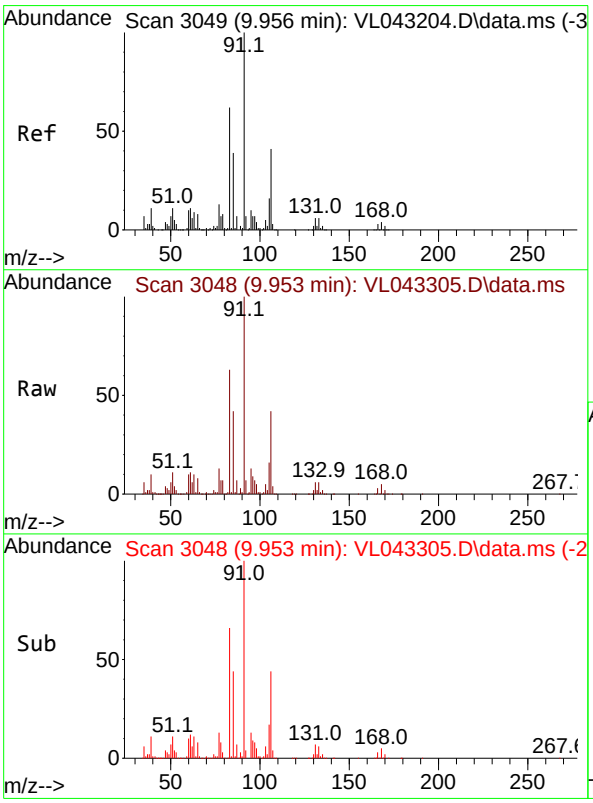
#59
m/p-Xylene
Concen: 12.143 ppbv
RT: 9.542 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 461134

Ion	Ratio	Lower	Upper
91	100		
106	88.8	36.1	54.1#

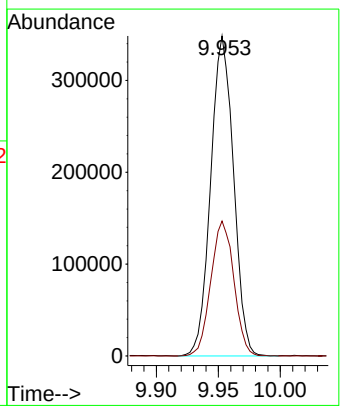


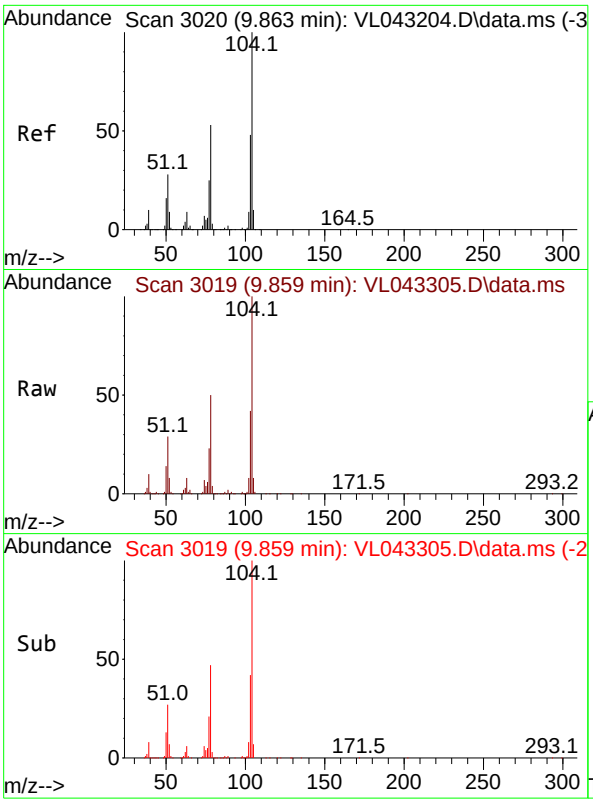


#60
o-Xylene
Concen: 11.799 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 91 Resp: 447628

Ion	Ratio	Lower	Upper
91	100		
106	42.5	20.9	62.8



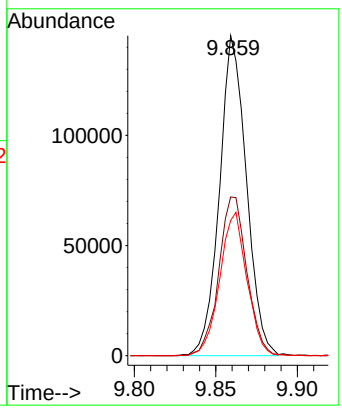


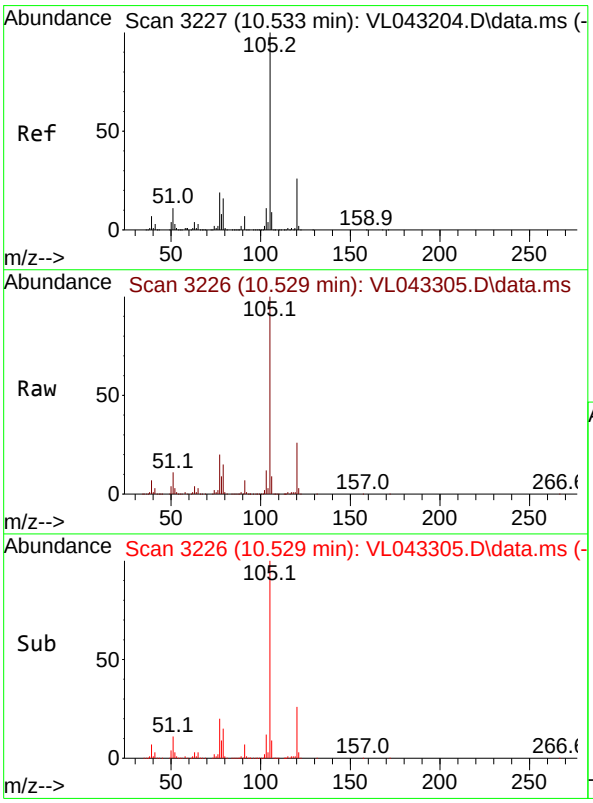
#61
Styrene
Concen: 10.061 ppbv
RT: 9.859 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 167047

Ion	Ratio	Lower	Upper
104	100		
78	51.8	42.1	63.1
103	45.3	37.2	55.8

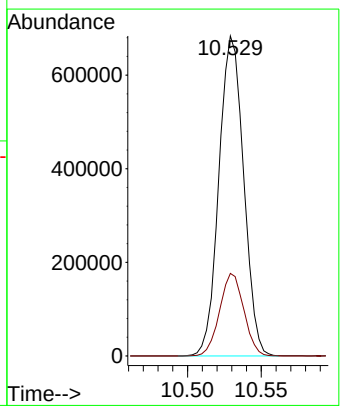


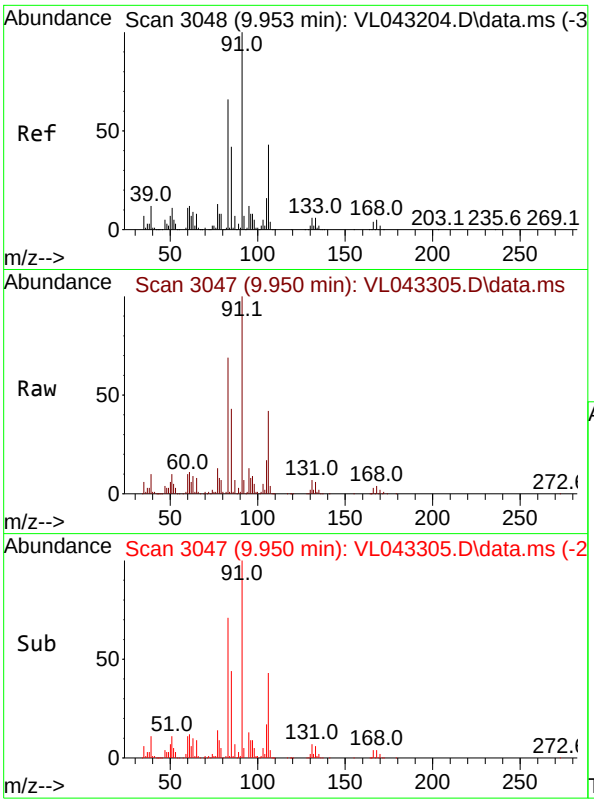


#62
Isopropylbenzene
Concen: 11.744 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:105 Resp: 797107

Ion	Ratio	Lower	Upper
105	100		
120	25.3	19.8	29.8



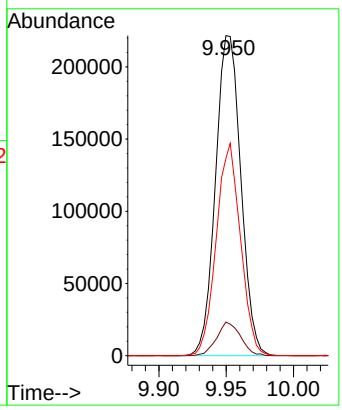


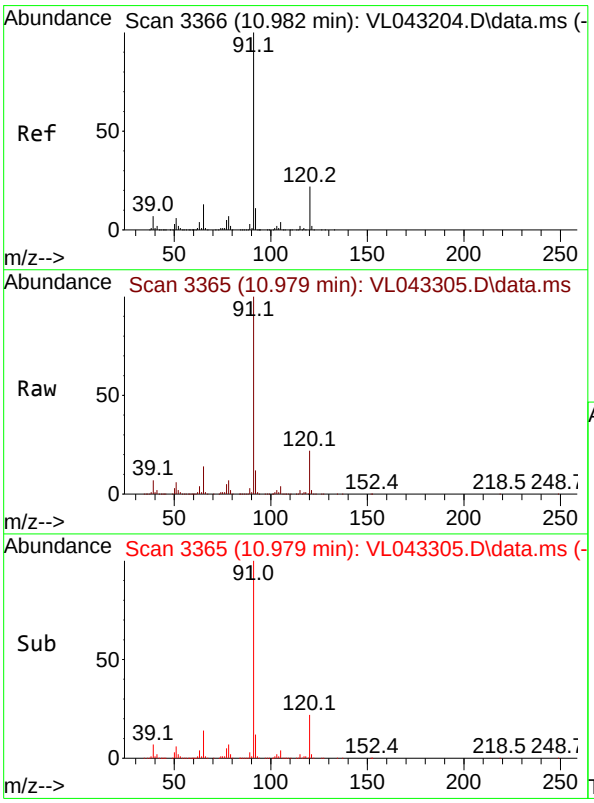
#63
1,1,2,2-Tetrachloroethane
Concen: 12.020 ppbv
RT: 9.950 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 290145

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.3
85	63.4	31.9	95.9

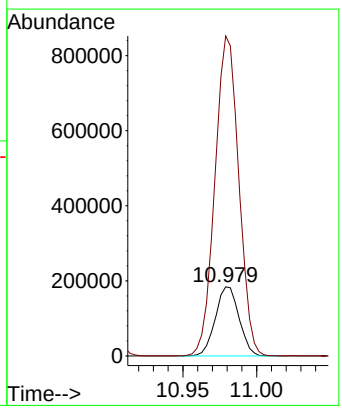


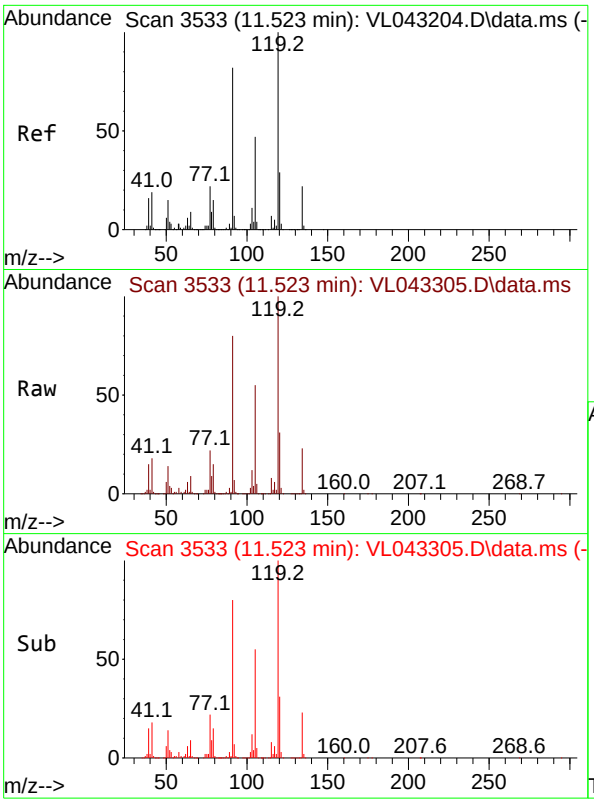


#64
n-propylbenzene
Concen: 11.779 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:120 Resp: 205431

Ion	Ratio	Lower	Upper
120	100		
91	467.7	377.1	565.7



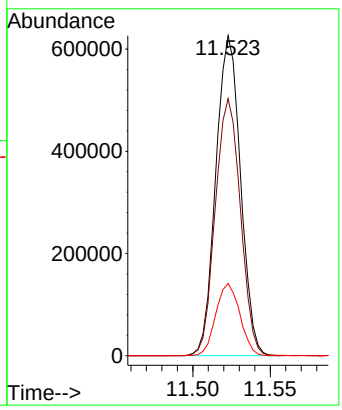


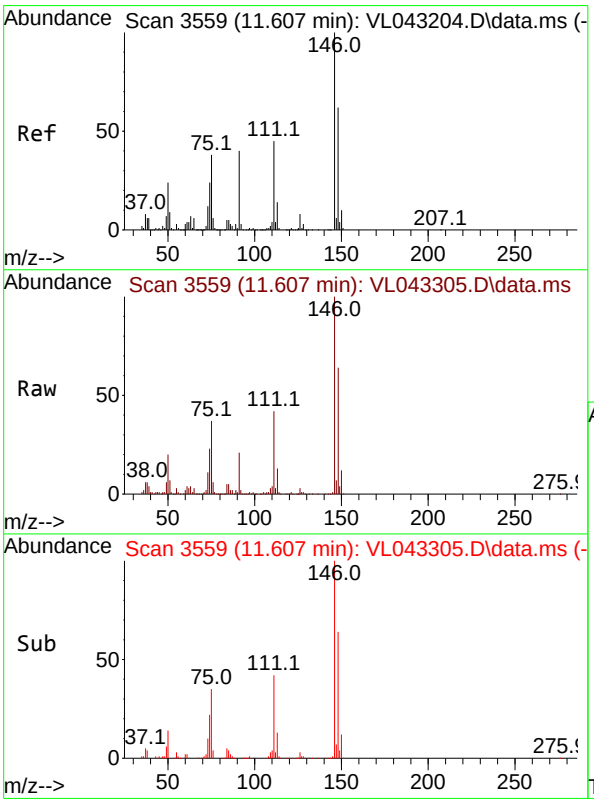
#65
tert-Butylbenzene
Concen: 11.455 ppbv
RT: 11.523 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 694372

Ion	Ratio	Lower	Upper
119	100		
91	81.7	65.3	97.9
134	22.0	17.0	25.4

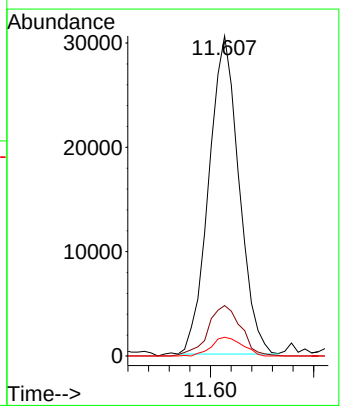


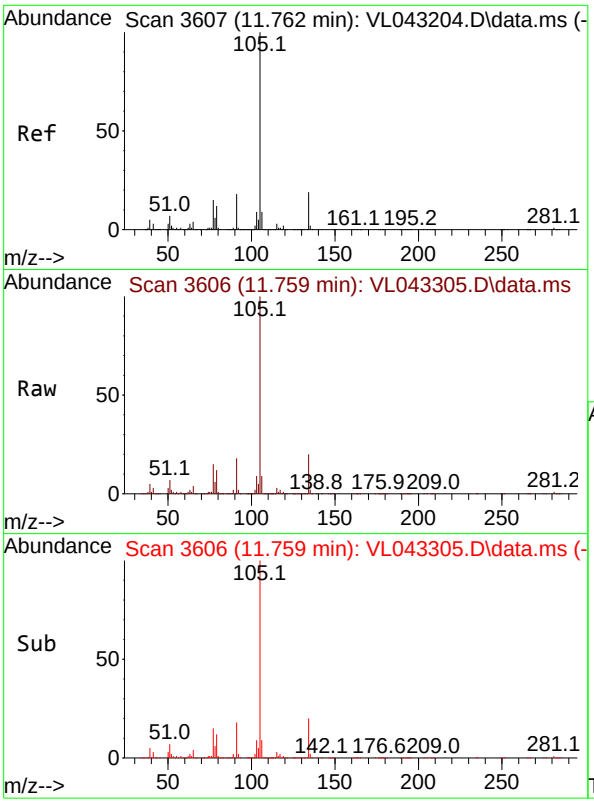


#66
Benzyl Chloride
Concen: 5.035 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 91 Resp: 30971

Ion	Ratio	Lower	Upper
91	100		
126	17.2	14.4	21.6
128	6.0	4.6	6.8



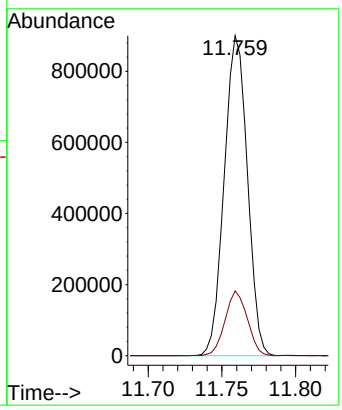


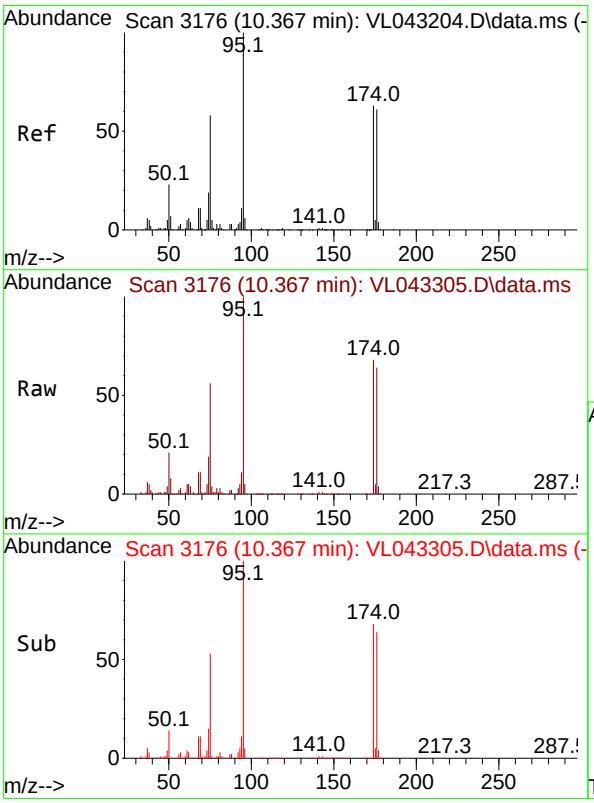
#67
sec-Butylbenzene
Concen: 11.615 ppbv
RT: 11.759 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 982704

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.0	22.6

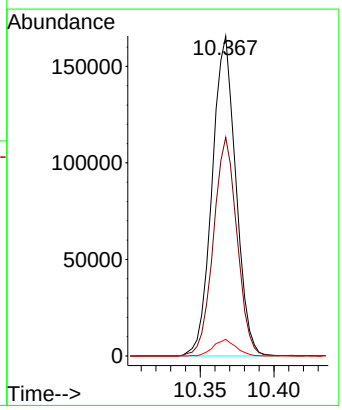


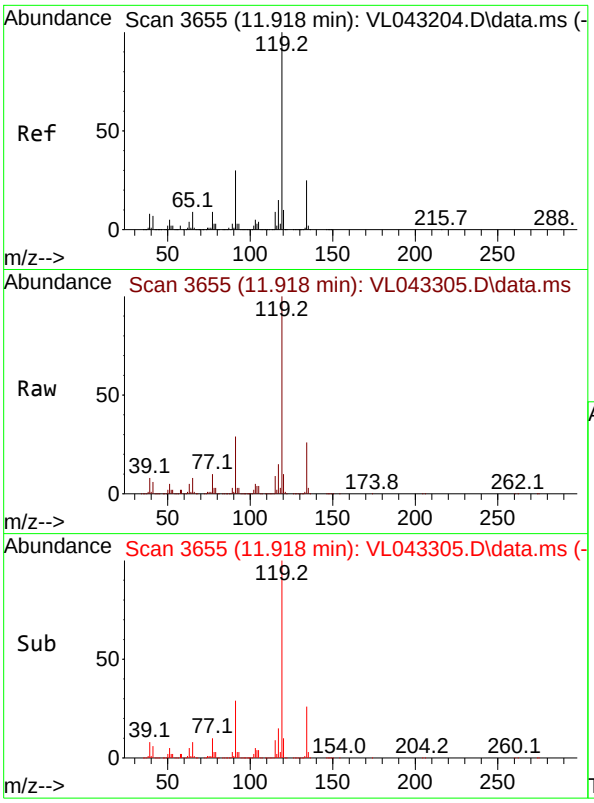


#68
1-Bromo-4-Fluorobenzene
Concen: 10.269 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 95 Resp: 185245

Ion	Ratio	Lower	Upper
95	100		
174	68.3	50.2	75.2
175	5.0	4.1	6.1



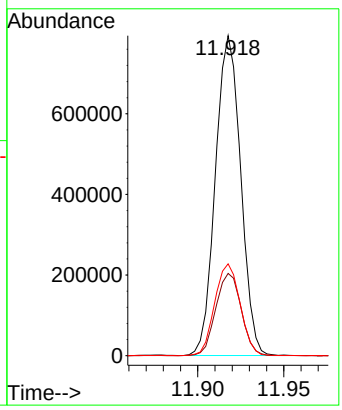


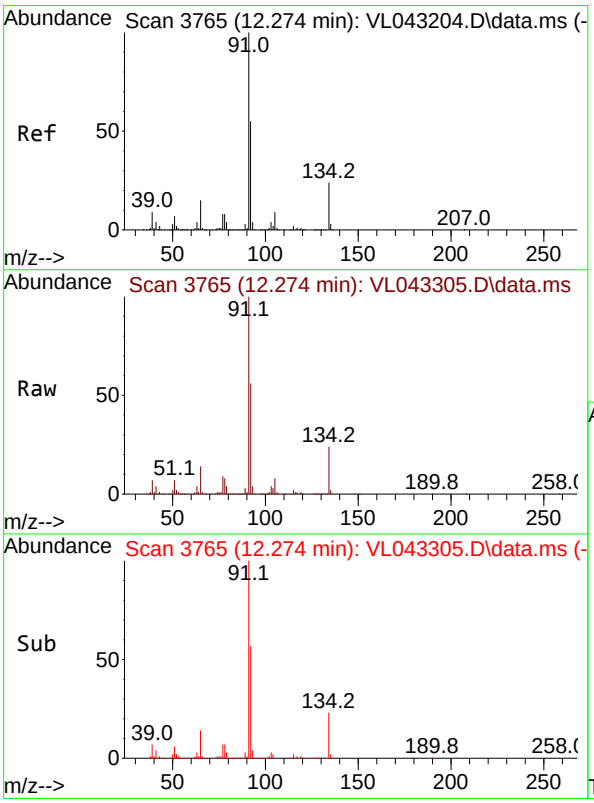
#69
p-Isopropyltoluene
Concen: 11.330 ppbv
RT: 11.918 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:119 Resp: 812059

Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.2	30.2
91	29.0	23.8	35.8

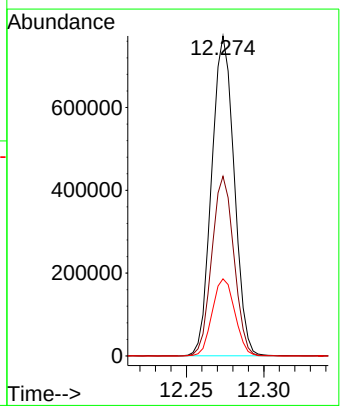


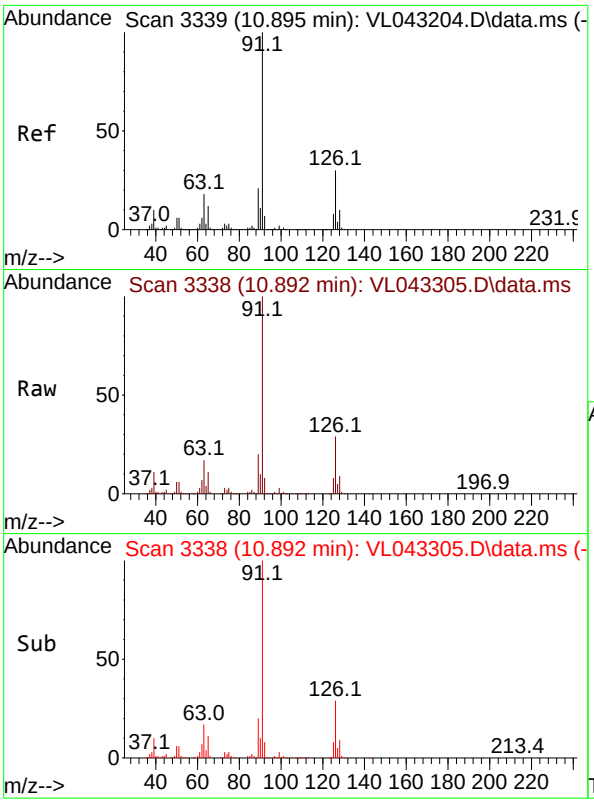


#70
n-Butylbenzene
Concen: 11.231 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion: 91 Resp: 780968

Ion	Ratio	Lower	Upper
91	100		
92	55.2	43.5	65.3
134	24.3	19.0	28.6



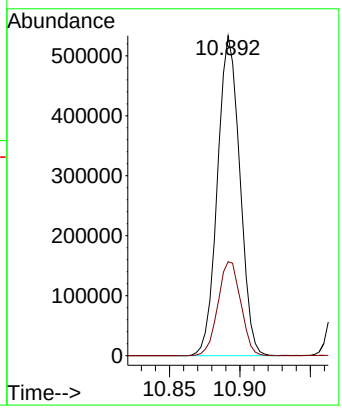


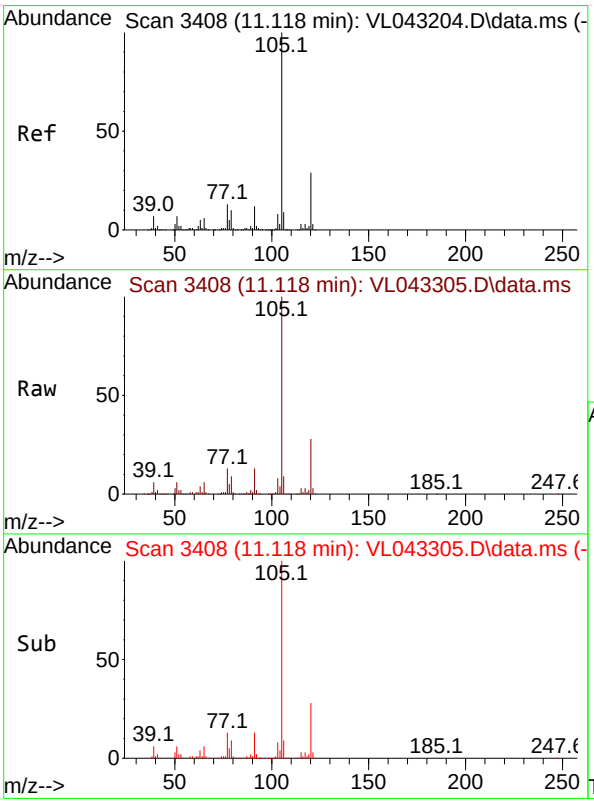
#71
2-Chlorotoluene
Concen: 11.289 ppbv
RT: 10.892 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 588943

Ion	Ratio	Lower	Upper
91	100		
126	30.0	11.7	46.7

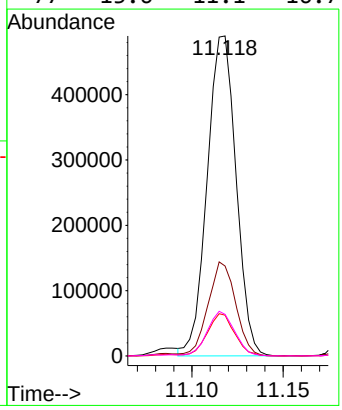


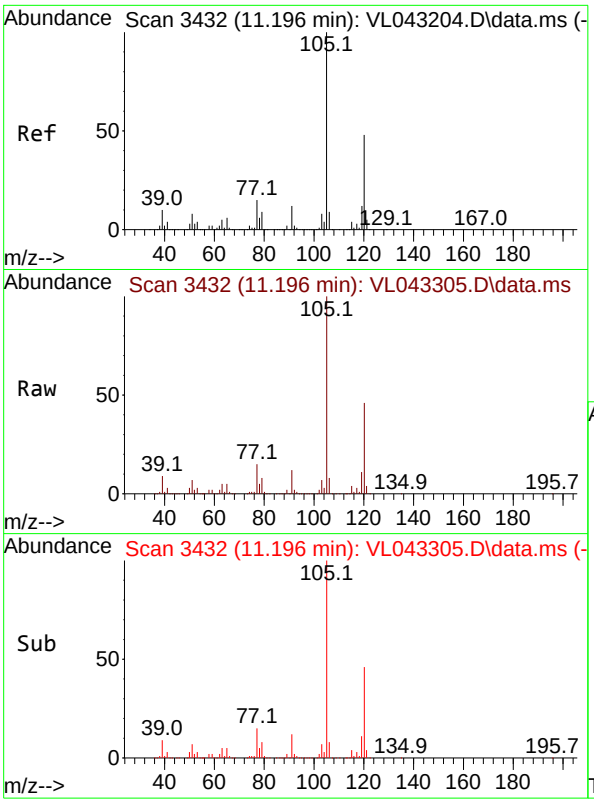


#72
4-Ethyltoluene
Concen: 11.678 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:105 Resp: 539530

Ion	Ratio	Lower	Upper
105	100		
120	28.8	23.8	35.8
91	12.8	10.3	15.5
77	13.6	11.1	16.7



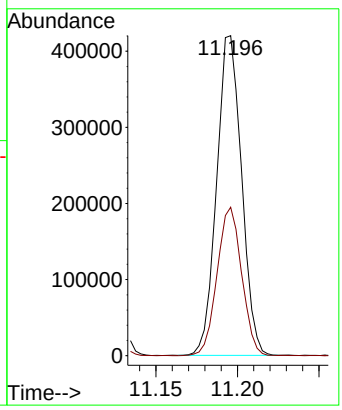


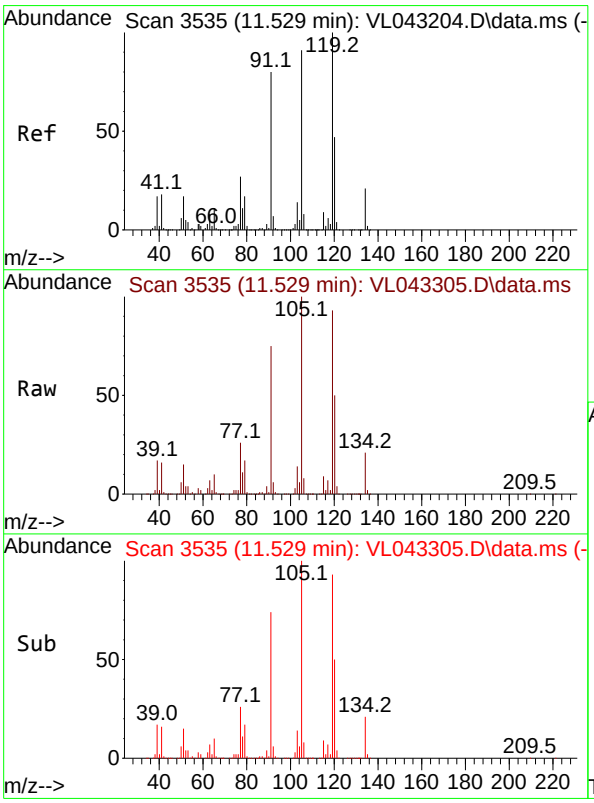
#73
1,3,5-Trimethylbenzene
Concen: 11.503 ppbv
RT: 11.196 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:105 Resp: 445981

Ion	Ratio	Lower	Upper
105	100		
120	46.5	38.6	57.8

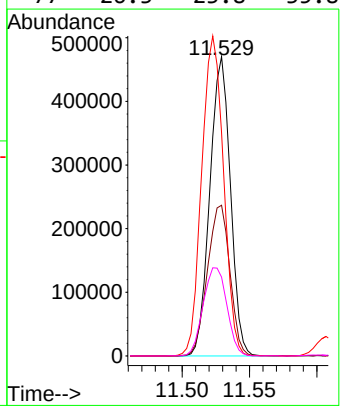


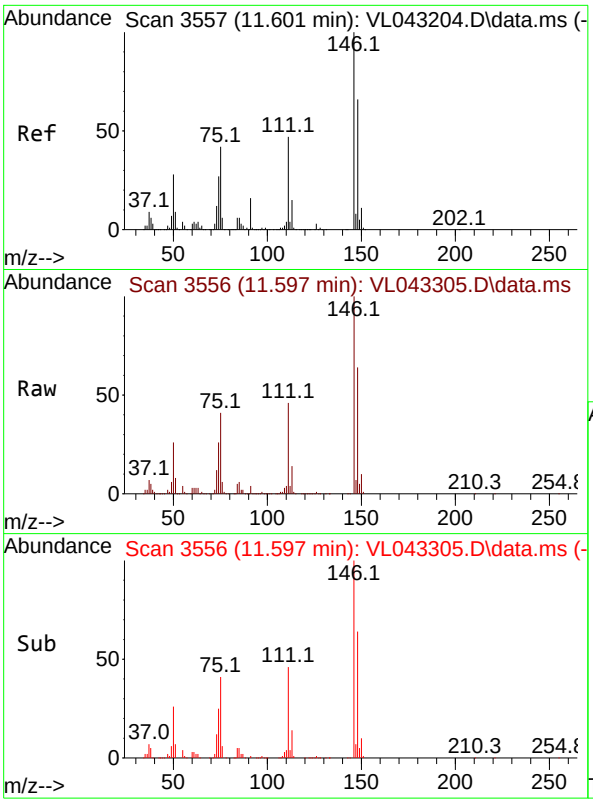


#74
1,2,4-Trimethylbenzene
Concen: 11.800 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:105 Resp: 499268

Ion	Ratio	Lower	Upper
105	100		
120	50.4	41.7	62.5
91	74.6	70.0	105.0
77	26.3	23.8	35.8



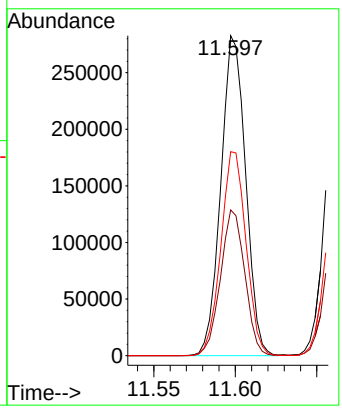


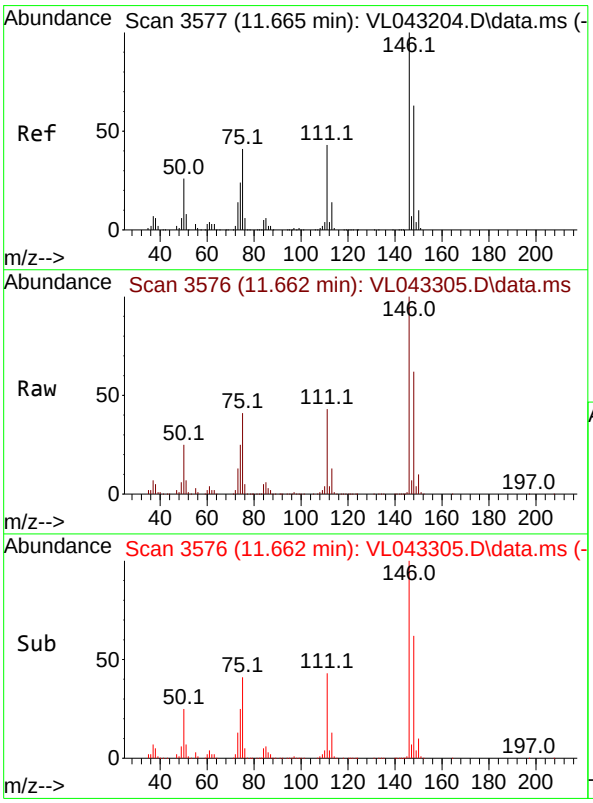
#75
1,3-Dichlorobenzene
Concen: 12.092 ppbv
RT: 11.597 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 298569

Ion	Ratio	Lower	Upper
146	100		
111	44.8	23.4	70.3
148	64.8	31.6	95.0

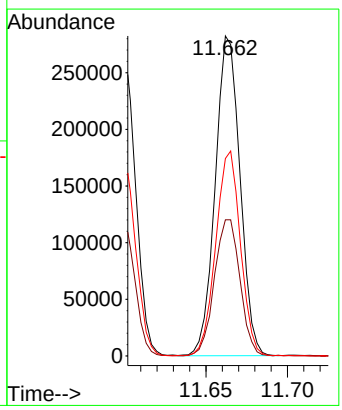


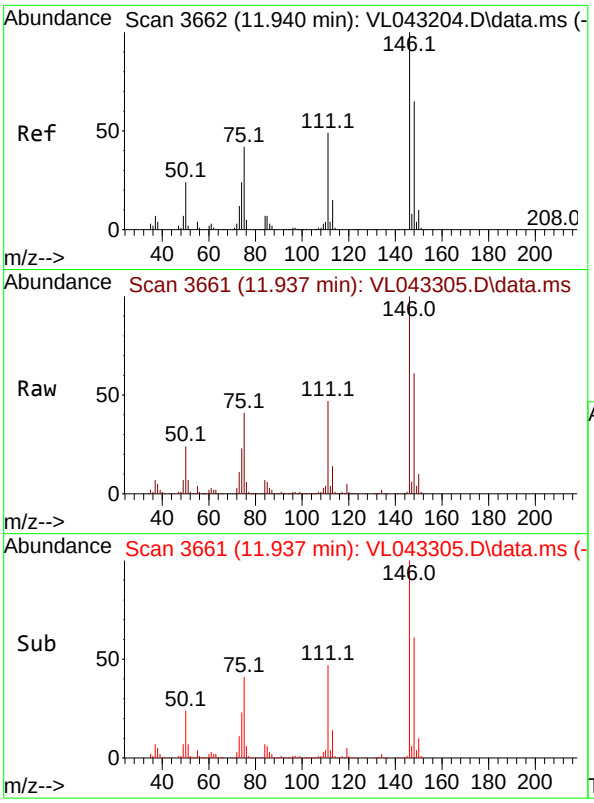


#76
1,4-Dichlorobenzene
Concen: 12.074 ppbv
RT: 11.662 min Scan# 3576
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:146 Resp: 298168

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.8	68.3
148	64.0	31.8	95.4



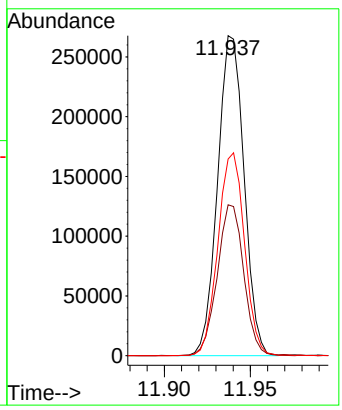


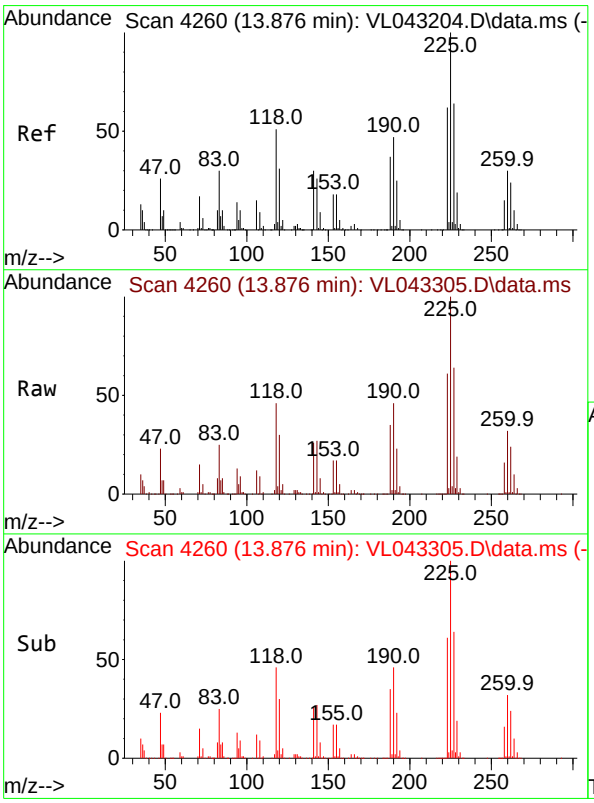
#77
1,2-Dichlorobenzene
Concen: 12.068 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 286499

Ion	Ratio	Lower	Upper
146	100		
111	47.3	24.3	73.0
148	63.7	31.6	94.7

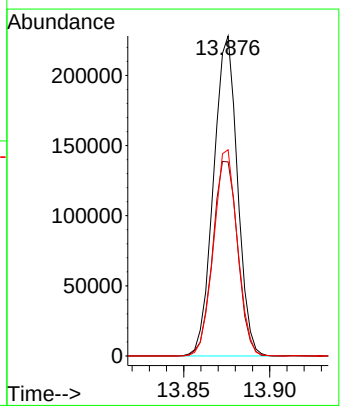


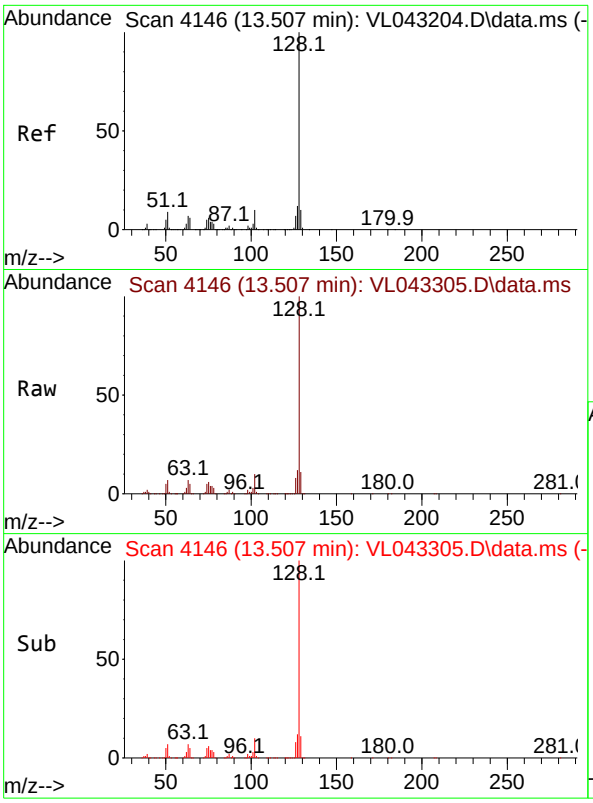


#78
Hexachloro-1,3-Butadiene
Concen: 11.143 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:225 Resp: 220765

Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.2	75.4
227	64.1	51.1	76.7



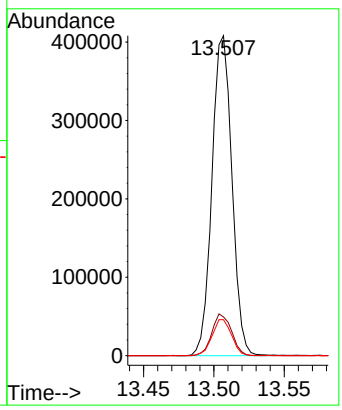


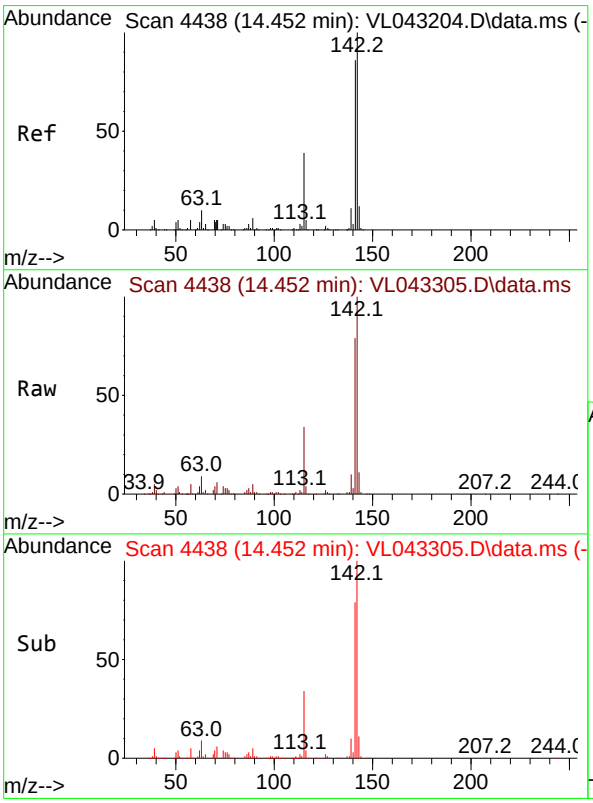
#79
Naphthalene
Concen: 10.733 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:128 Resp: 403341

Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.9	14.9
129	11.2	8.4	12.6

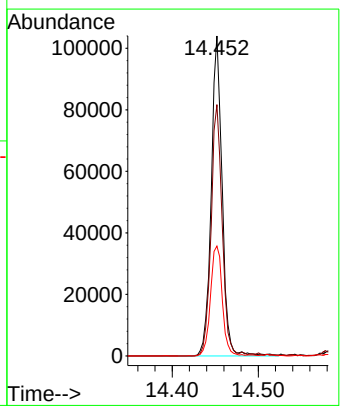


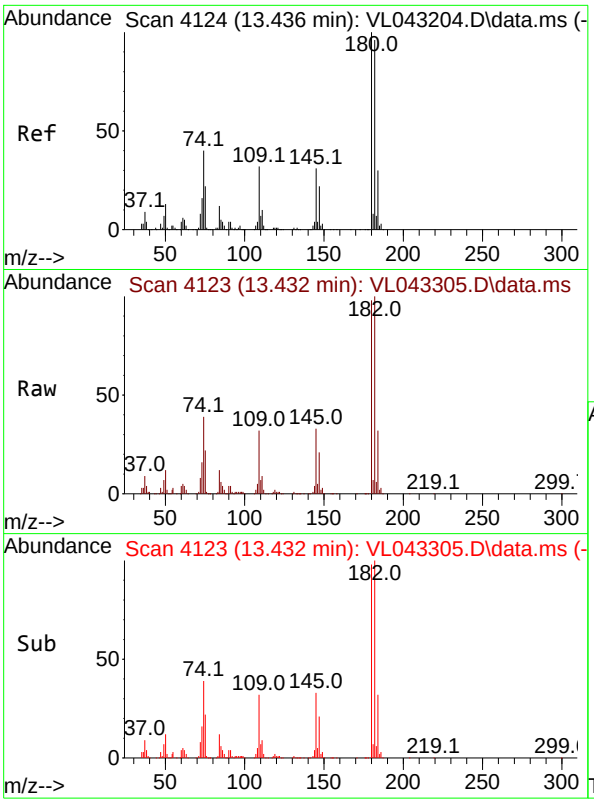


#80
Naphthalene,2-methyl-
Concen: 9.302 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. -0.000 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Tgt Ion:142 Resp: 91763

Ion	Ratio	Lower	Upper
142	100		
141	81.6	67.1	100.7
115	37.9	31.9	47.9



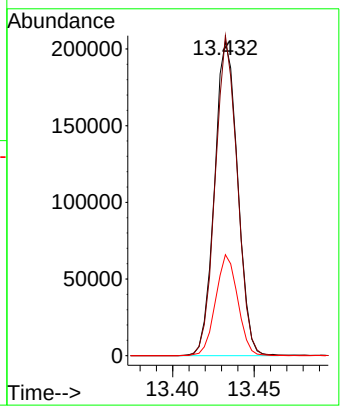


#81
1,2,4-Trichlorobenzene
Concen: 12.024 ppbv
RT: 13.432 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043305.D
Acq: 08 Dec 2025 08:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:180 Resp: 202078

Ion	Ratio	Lower	Upper
180	100		
182	97.5	77.4	116.2
184	30.7	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043307.D
Acq On : 08 Dec 2025 10:24
Operator : SY/MD
Sample : VL1208ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Quant Time: Dec 09 00:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.777	49	128373	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.946	114	319254	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.869	117	250711	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.364	95	185879	10.115	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	195547	10.800	ppbv		100
3) Chlorodifluoromethane	1.473	51	181736	10.206	ppbv		97
4) Chloromethane	1.531	50	70563	10.423	ppbv		100
5) Vinyl Chloride	1.577	62	67921	9.174	ppbv		93
6) Bromomethane	1.664	94	33521	9.340	ppbv		98
7) Chloroethane	1.700	64	28601	9.919	ppbv		91
8) Dichlorotetrafluoroethane	1.551	85	159668	10.601	ppbv		97
9) Propene	1.479	41	71417	9.445	ppbv	#	1
10) Heptane	4.962	43	210516	9.355	ppbv		98
11) Trichlorofluoromethane	1.874	101	196801	11.219	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.133	101	153996	11.244	ppbv		97
13) Ethanol	1.716	45	23202	8.726	ppbv		97
14) Bromoethene	1.777	108	55304	10.533	ppbv		94
15) Acetone	1.829	43	152789	8.567	ppbv		99
16) 1,3-Butadiene	1.606	39	76687	9.645	ppbv		97
17) tert-Butyl alcohol	2.033	59	209336	8.942	ppbv		100
18) 1,1-Dichloroethene	2.030	96	65282	10.237	ppbv		93
19) Isopropyl Alcohol	1.881	45	85723	8.506	ppbv	#	86
20) Methylene Chloride	2.056	84	60065	11.551	ppbv		95
21) Allyl Chloride	2.091	41	105272	8.773	ppbv		100
22) trans-1,2-Dichloroethene	2.334	96	75422	10.348	ppbv		95
23) Vinyl Acetate	2.454	43	197206	9.159	ppbv	#	98
24) 1,1-Dichloroethane	2.402	63	147058	10.453	ppbv		98
25) Ethyl Acetate	2.826	43	372295	9.678	ppbv		99
26) Hexane	2.816	57	166920	9.898	ppbv		98
27) Carbon Disulfide	2.146	76	190369	11.057	ppbv		99
28) Methyl tert-Butyl Ether	2.431	73	77723	9.389	ppbv		98
29) Chloroform	2.839	83	280544	11.703	ppbv		98
30) Cyclohexane	3.842	84	136887	9.681	ppbv		95
31) cis-1,2-Dichloroethene	2.713	61	166197	9.915	ppbv		94
32) 1,1,1-Trichloroethane	3.357	97	278163	10.886	ppbv		99
34) 2-Butanone	2.548	43	232285	10.307	ppbv		99
35) Carbon Tetrachloride	3.752	117	293430	12.109	ppbv		100
36) Benzene	3.645	78	342251	11.194	ppbv		99
37) 1,2-Dichloroethane	3.208	62	212457	11.880	ppbv		98
38) Trichloroethene	4.532	130	137474	11.493	ppbv		98
39) 1,2-Dichloropropane	4.295	63	122348	10.934	ppbv		92
40) 1,4-Dioxane	4.564	88	43982	8.743	ppbv	#	97
41) Tetrahydrofuran	3.043	42	121301	9.747	ppbv		98
42) Bromodichloromethane	4.473	83	296233	12.008	ppbv		97
43) Methyl Methacrylate	4.862	69	156667	9.654	ppbv		95
44) 2,2,4-Trimethylpentane	4.625	57	569168	10.839	ppbv		98
45) t-1,3-Dichloropropene	6.393	75	118391	7.826	ppbv		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043307.D
Acq On : 08 Dec 2025 10:24
Operator : SY/MD
Sample : VL1208ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Quant Time: Dec 09 00:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

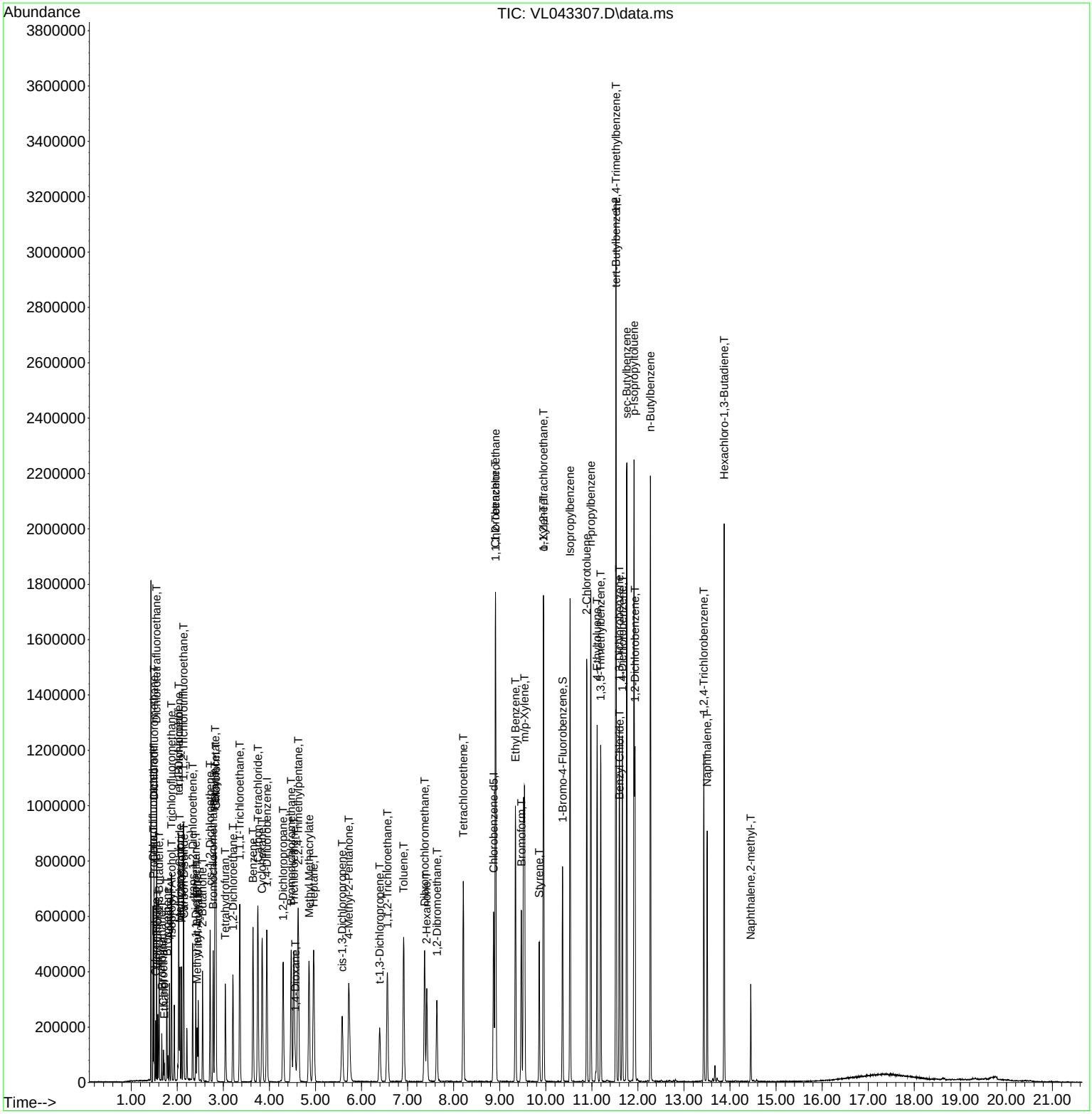
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	146637	8.255	ppbv		94
47) 1,1,2-Trichloroethane	6.561	97	137247	11.557	ppbv		98
48) Dibromochloromethane	7.370	129	240784	11.793	ppbv		99
49) Bromoform	9.471	173	220417	12.188	ppbv		99
50) 4-Methyl-2-Pentanone	5.723	43	315888	9.951	ppbv		98
51) 2-Hexanone	7.415	43	223708	9.075	ppbv	#	98
52) Tetrachloroethene	8.208	164	125681	11.051	ppbv		96
53) Toluene	6.914	91	374608	10.347	ppbv		99
54) 1,2-Dibromoethane	7.636	107	183811	10.518	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.911	131	229368	12.449	ppbv		99
57) Chlorobenzene	8.908	112	305509	11.869	ppbv		99
58) Ethyl Benzene	9.341	91	538550	11.161	ppbv		97
59) m/p-Xylene	9.539	91	420640	10.873	ppbv	#	20
60) o-Xylene	9.950	91	446789	11.560	ppbv		98
61) Styrene	9.859	104	167877	9.925	ppbv		99
62) Isopropylbenzene	10.529	105	805674	11.652	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.950	83	285542	11.611	ppbv		99
64) n-propylbenzene	10.979	120	208180	11.718	ppbv		96
65) tert-Butylbenzene	11.523	119	696094	11.273	ppbv		100
66) Benzyl Chloride	11.604	91	31638	5.049	ppbv		98
67) sec-Butylbenzene	11.759	105	973259	11.291	ppbv		99
69) p-Isopropyltoluene	11.914	119	808286	11.070	ppbv		99
70) n-Butylbenzene	12.270	91	780553	11.019	ppbv		100
71) 2-Chlorotoluene	10.888	91	584474	10.997	ppbv		99
72) 4-Ethyltoluene	11.115	105	540638	11.487	ppbv		99
73) 1,3,5-Trimethylbenzene	11.193	105	451214	11.424	ppbv		96
74) 1,2,4-Trimethylbenzene	11.526	105	496984	11.530	ppbv		100
75) 1,3-Dichlorobenzene	11.597	146	297680	11.834	ppbv		98
76) 1,4-Dichlorobenzene	11.662	146	298352	11.859	ppbv		98
77) 1,2-Dichlorobenzene	11.937	146	285835	11.819	ppbv		98
78) Hexachloro-1,3-Butadiene	13.873	225	220056	10.903	ppbv		99
79) Naphthalene	13.504	128	409312	10.692	ppbv		97
80) Naphthalene,2-methyl-	14.449	142	92975	9.252	ppbv		99
81) 1,2,4-Trichlorobenzene	13.432	180	204005	11.915	ppbv		98

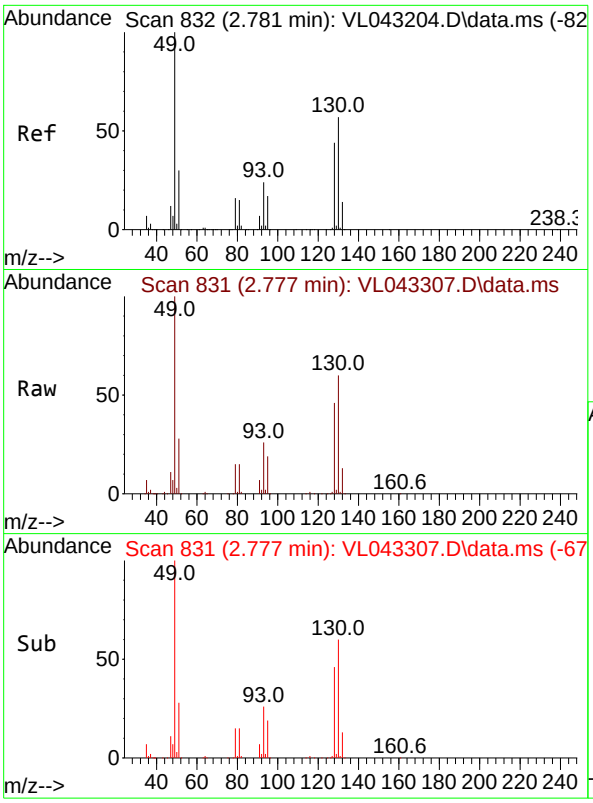
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043307.D
Acq On : 08 Dec 2025 10:24
Operator : SY/MD
Sample : VL1208ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Quant Time: Dec 09 00:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



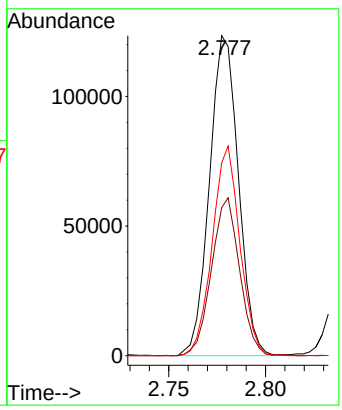


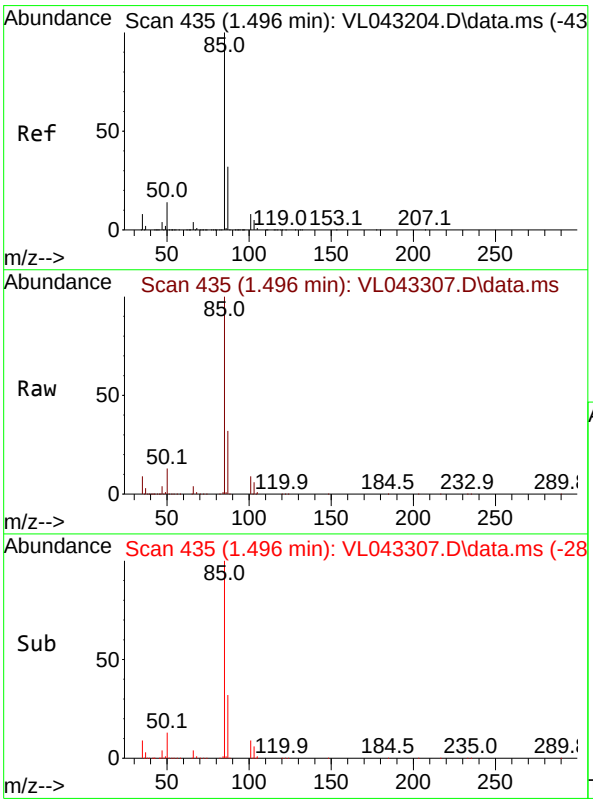
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 49 Resp: 128373

Ion	Ratio	Lower	Upper
49	100		
128	48.0	23.0	69.0
130	62.5	29.9	89.7

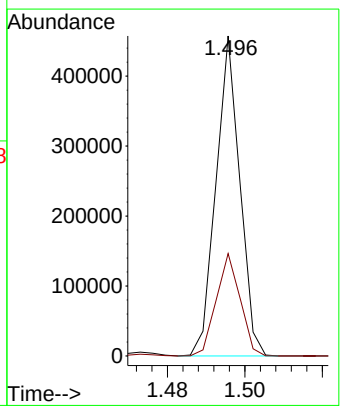


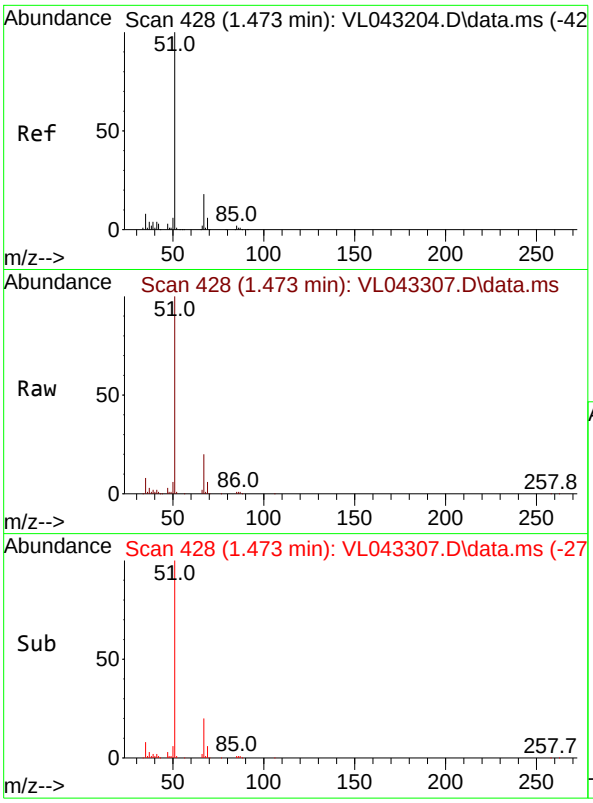


#2
Dichlorodifluoromethane
Concen: 10.800 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 85 Resp: 195547

Ion	Ratio	Lower	Upper
85	100		
87	32.0	25.4	38.2



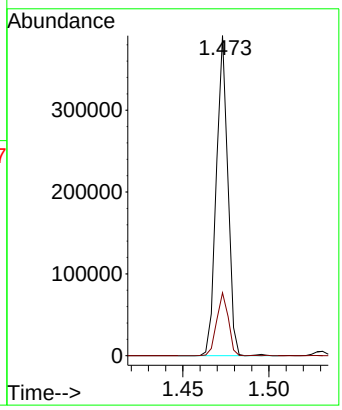


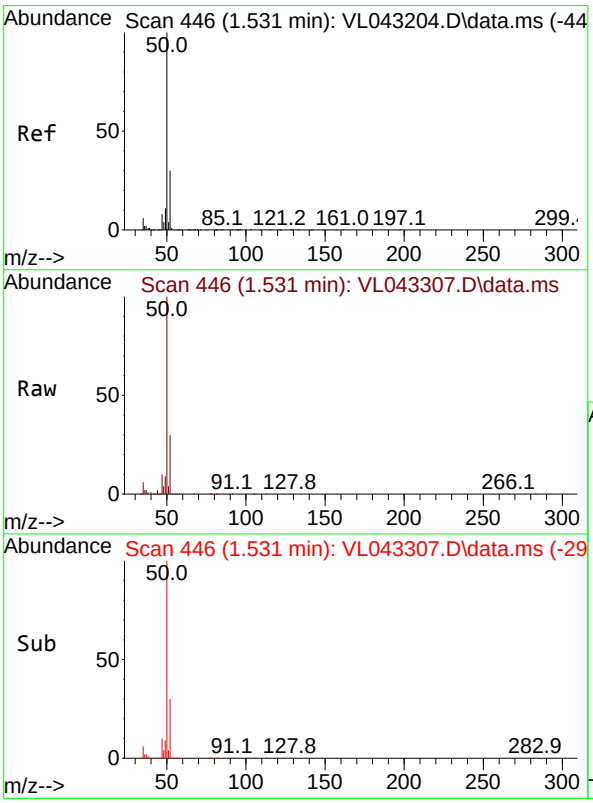
#3
Chlorodifluoromethane
Concen: 10.206 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 51 Resp: 181736

Ion	Ratio	Lower	Upper
51	100		
67	19.9	14.9	22.3

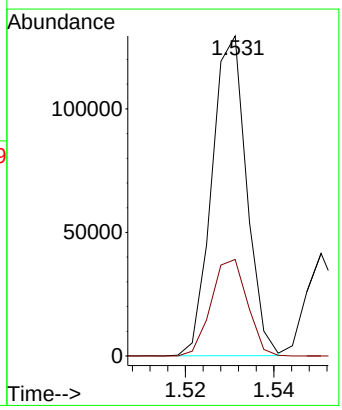


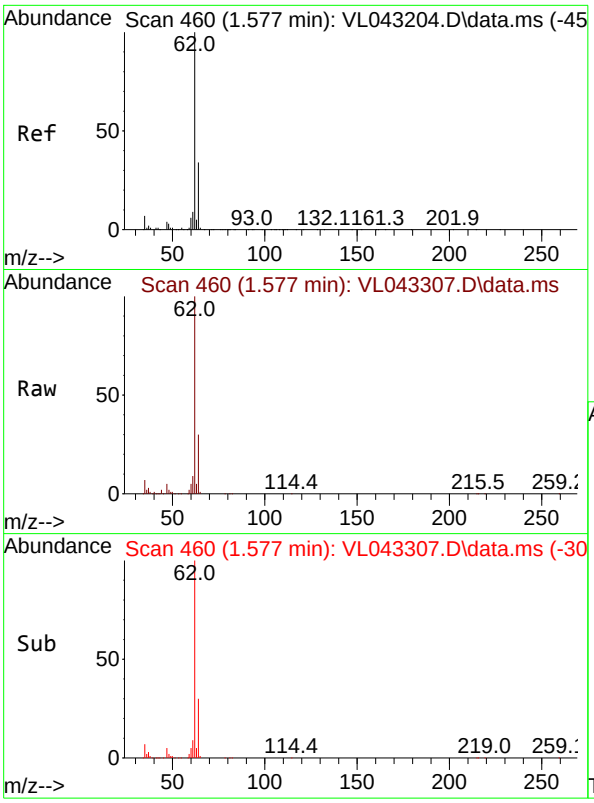


#4
Chloromethane
Concen: 10.423 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 50 Resp: 70563

Ion	Ratio	Lower	Upper
50	100		
52	30.2	24.1	36.1



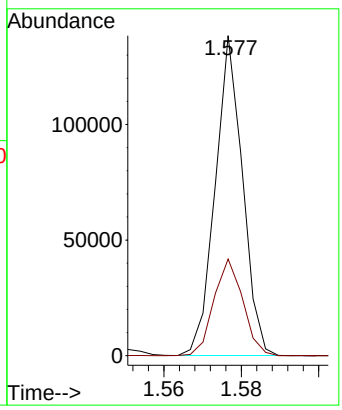


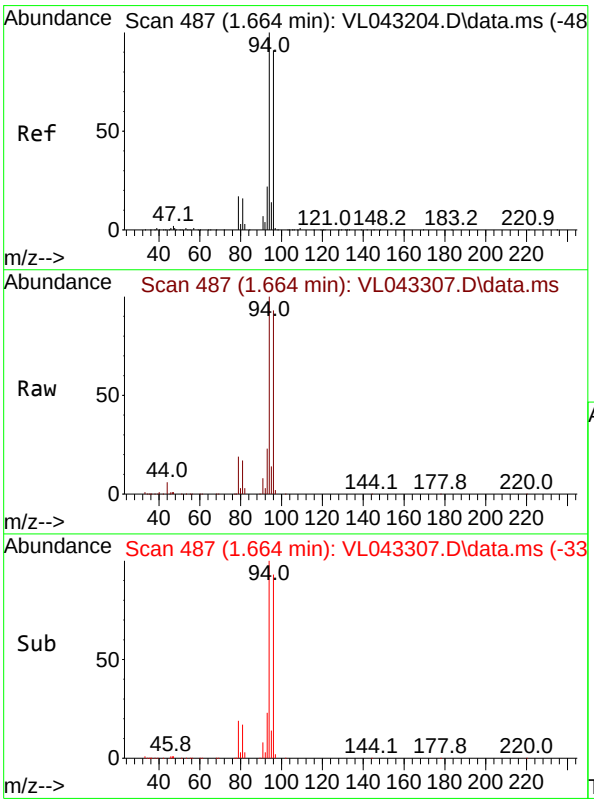
#5
Vinyl Chloride
Concen: 9.174 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 62 Resp: 67921

Ion	Ratio	Lower	Upper
62	100		
64	30.2	27.3	40.9

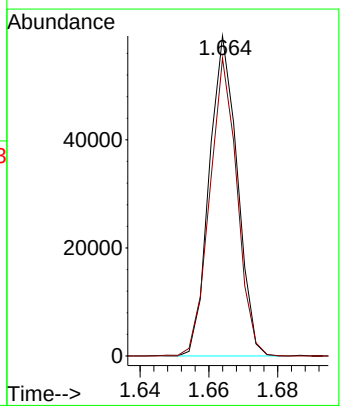


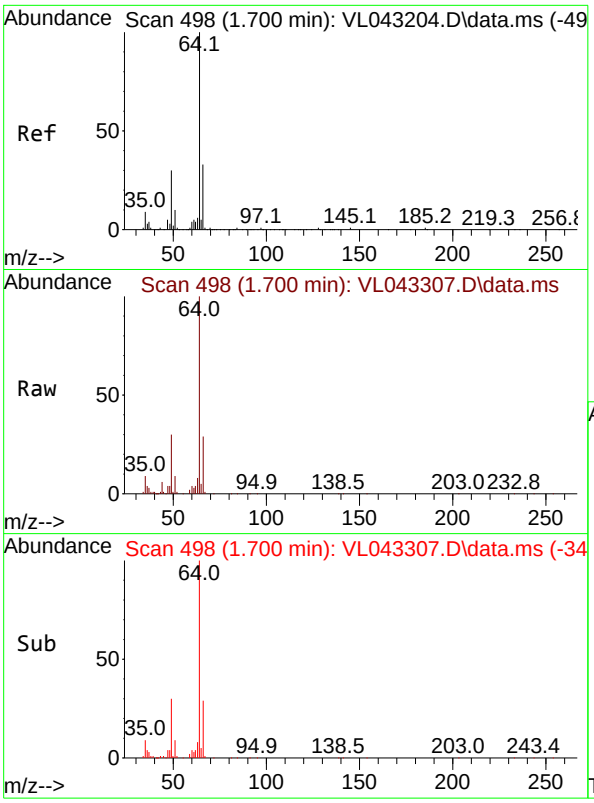


#6
Bromomethane
Concen: 9.340 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 94 Resp: 33521

Ion	Ratio	Lower	Upper
94	100		
96	93.0	72.9	109.3



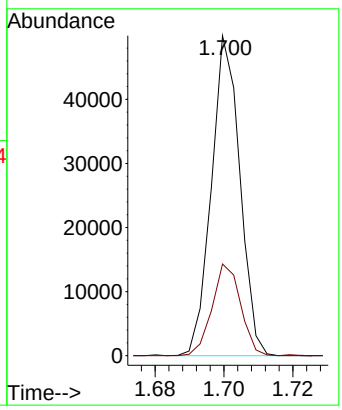


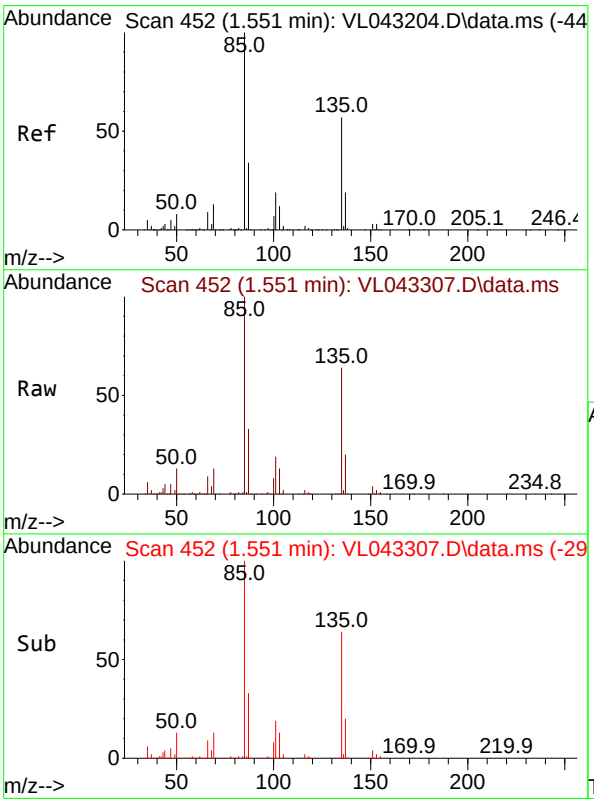
#7
Chloroethane
Concen: 9.919 ppbv
RT: 1.700 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 64 Resp: 28601

Ion	Ratio	Lower	Upper
64	100		
66	28.6	26.8	40.2

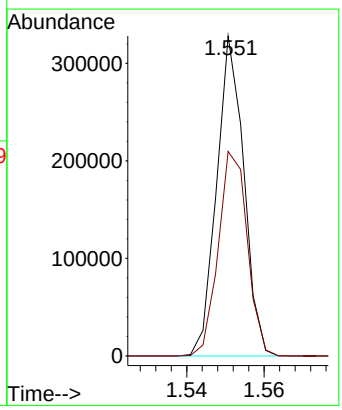


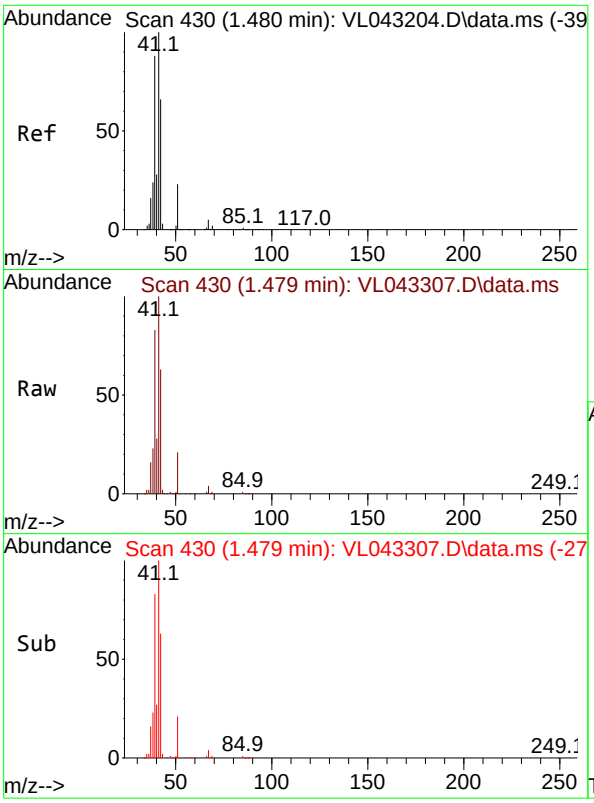


#8
Dichlorotetrafluoroethane
Concen: 10.601 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 85 Resp: 159668

Ion	Ratio	Lower	Upper
85	100		
135	68.3	52.6	79.0



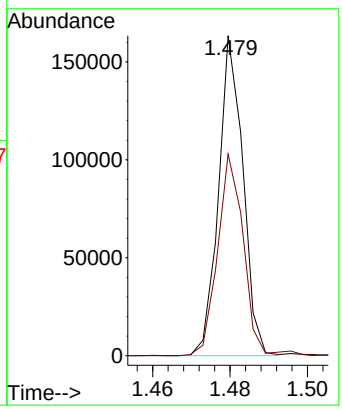


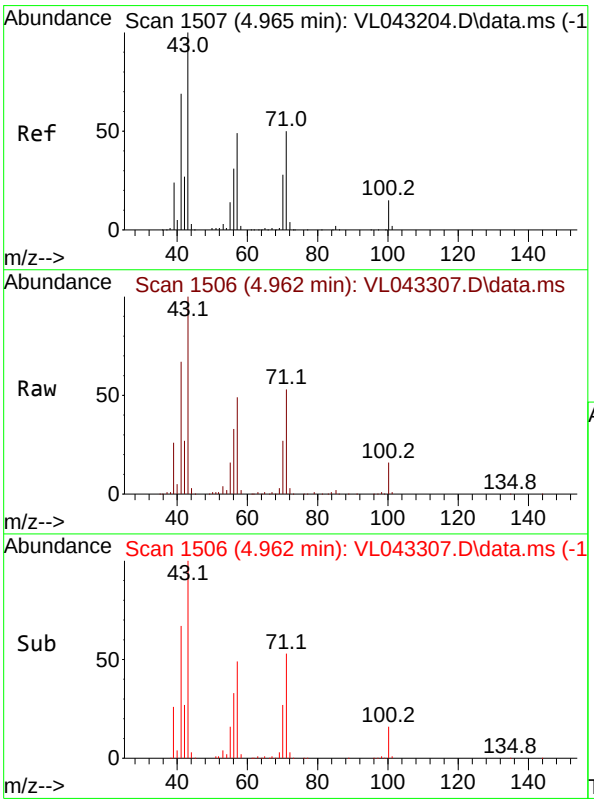
#9
Propene
Concen: 9.445 ppbv
RT: 1.479 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 41 Resp: 71417

Ion	Ratio	Lower	Upper
41	100		
42	67.1	3.7	5.5#

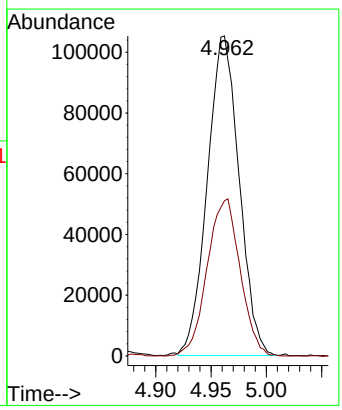


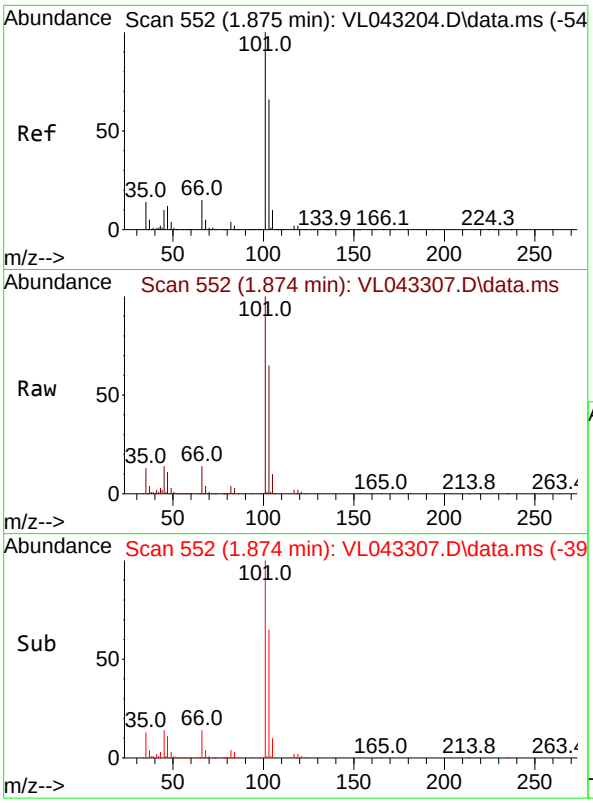


#10
Heptane
Concen: 9.355 ppbv
RT: 4.962 min Scan# 1506
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 43 Resp: 210516

Ion	Ratio	Lower	Upper
43	100		
57	50.9	39.7	59.5



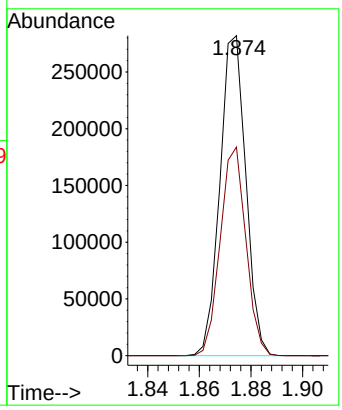


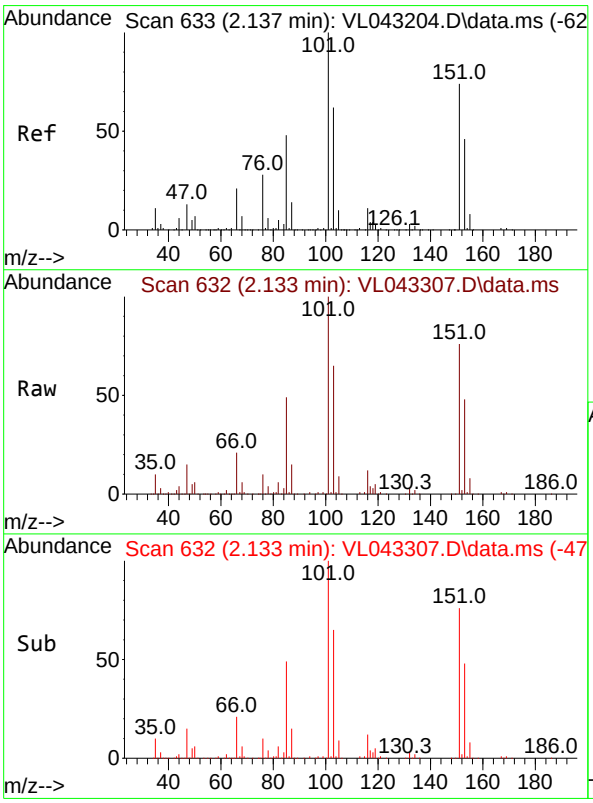
#11
Trichlorofluoromethane
Concen: 11.219 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:101 Resp: 196801

Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.6	79.0

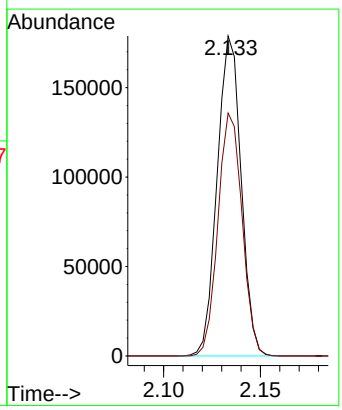


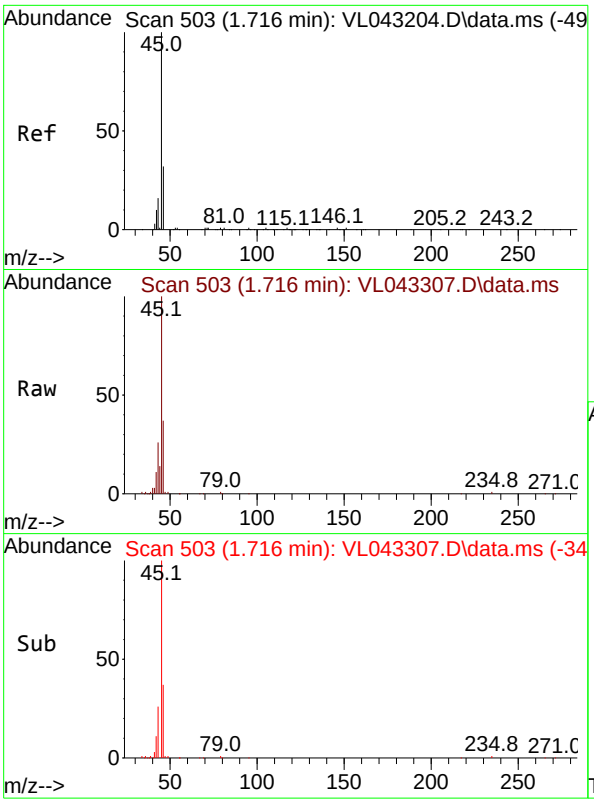


#12
1,1,2-Trichlorotrifluoroethane
Concen: 11.244 ppbv
RT: 2.133 min Scan# 632
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:101 Resp: 153996

Ion	Ratio	Lower	Upper
101	100		
151	76.4	59.2	88.8



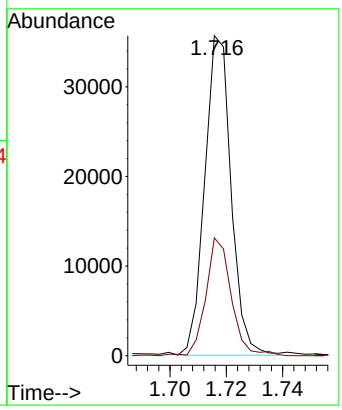


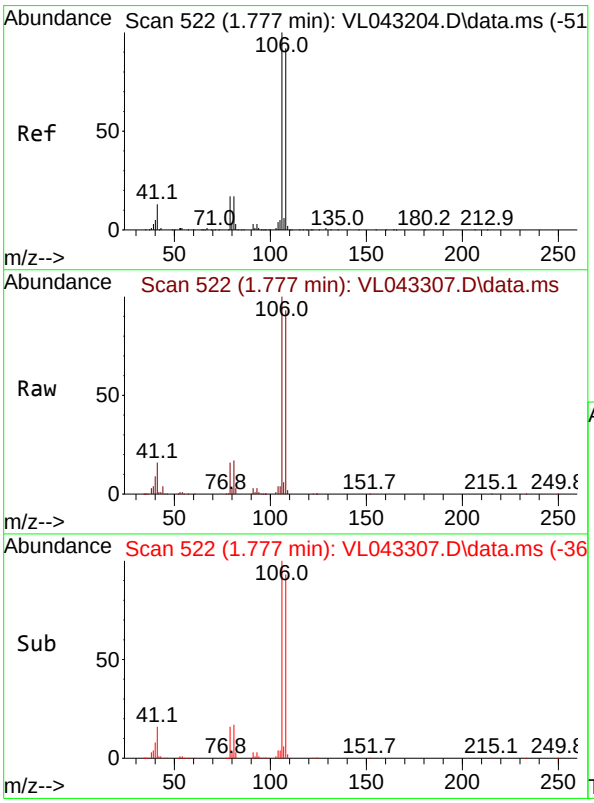
#13
Ethanol
Concen: 8.726 ppbv
RT: 1.716 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 45 Resp: 23202

Ion	Ratio	Lower	Upper
45	100		
46	35.5	15.0	59.8

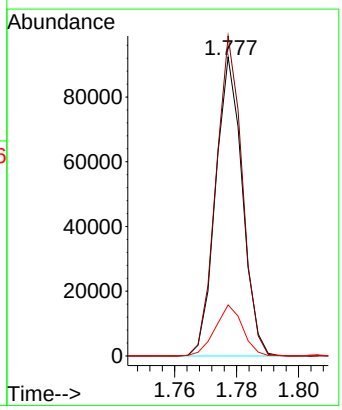


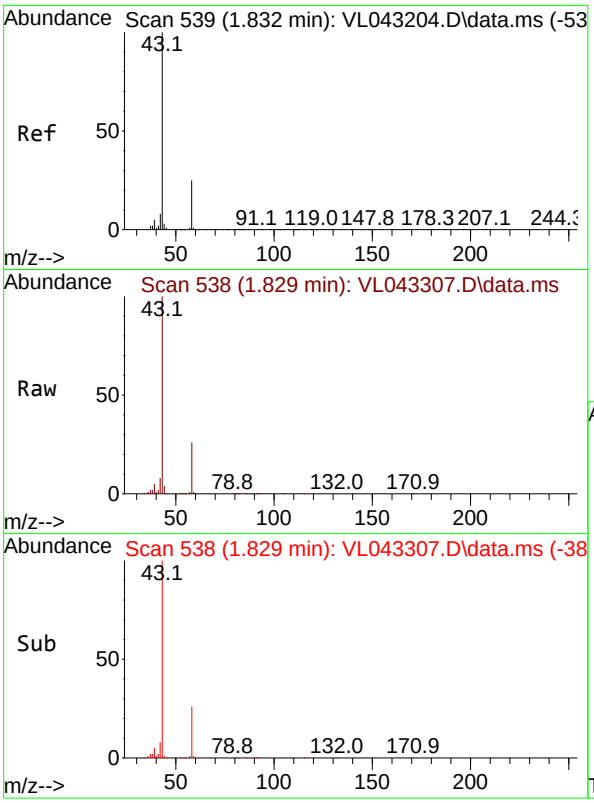


#14
Bromoethene
Concen: 10.533 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:108 Resp: 55304

Ion	Ratio	Lower	Upper
108	100		
106	104.9	88.9	133.3
79	17.7	16.5	24.7



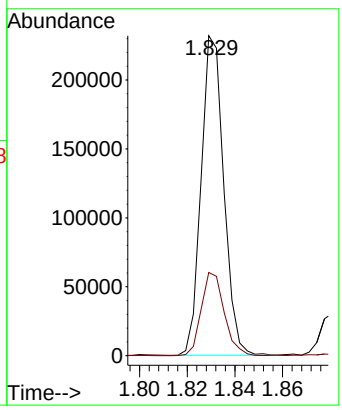


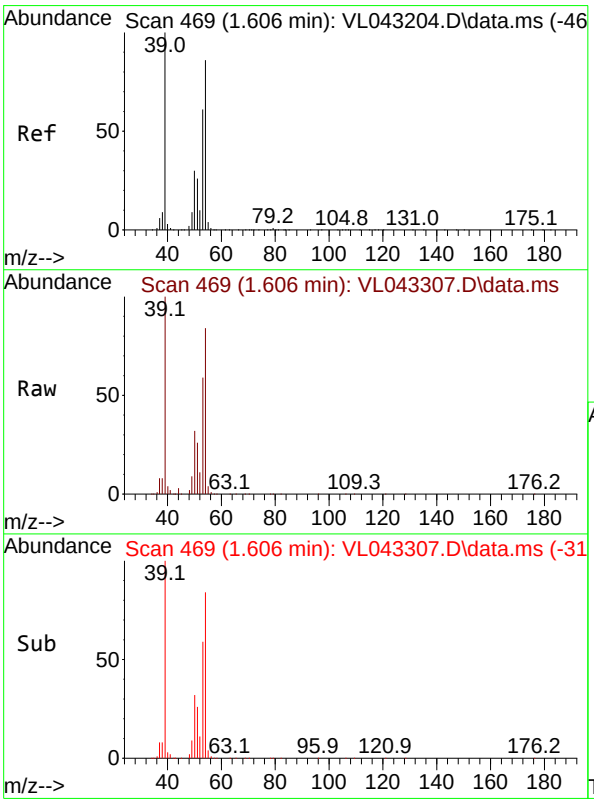
#15
Acetone
Concen: 8.567 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 43 Resp: 152789

Ion	Ratio	Lower	Upper
43	100		
58	26.6	20.7	31.1

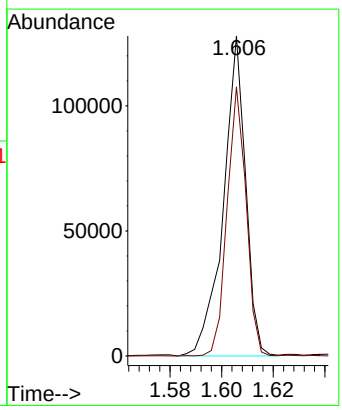


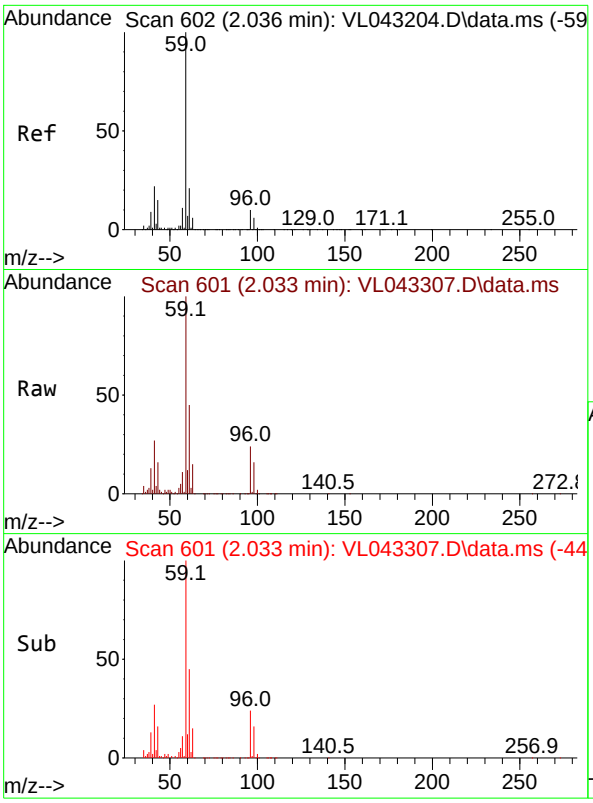


#16
1,3-Butadiene
Concen: 9.645 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 39 Resp: 76687

Ion	Ratio	Lower	Upper
39	100		
54	71.8	59.4	89.2



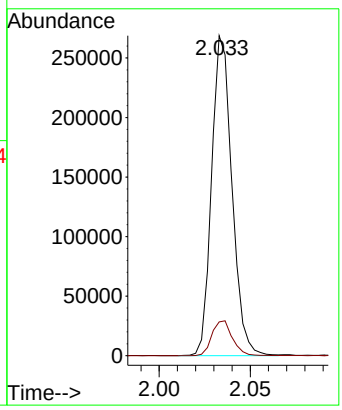


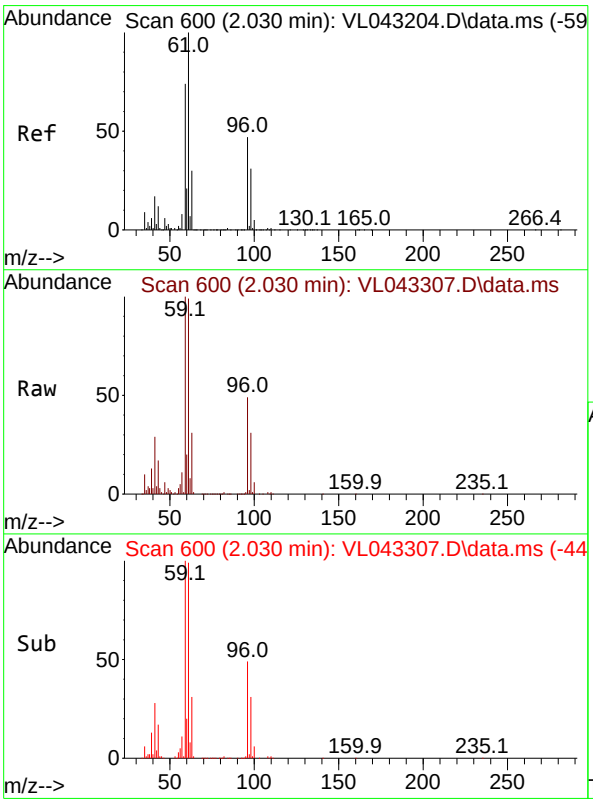
#17
tert-Butyl alcohol
Concen: 8.942 ppbv
RT: 2.033 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 59 Resp: 209336

Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.0	13.4

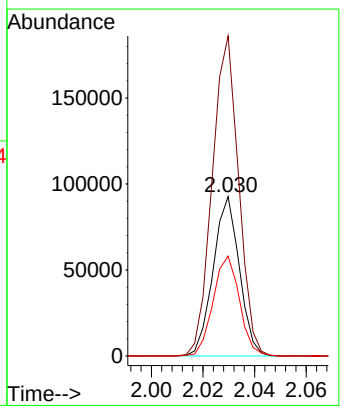


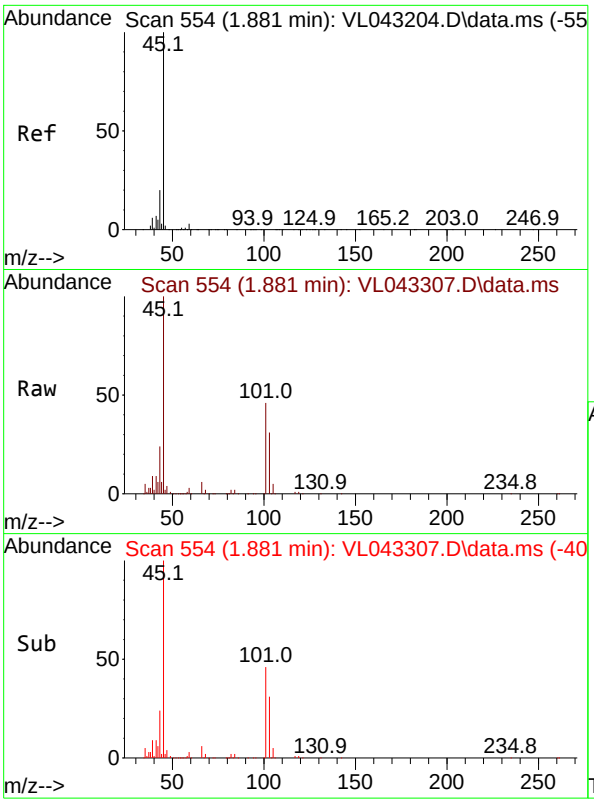


#18
1,1-Dichloroethene
Concen: 10.237 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 96 Resp: 65282

Ion	Ratio	Lower	Upper
96	100		
61	200.9	170.6	255.8
98	62.7	52.2	78.4



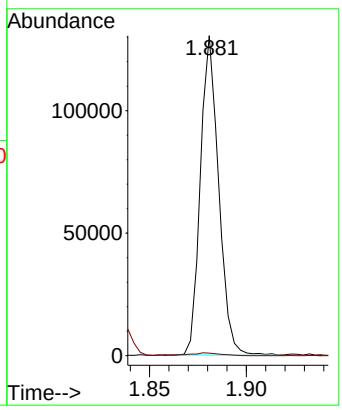


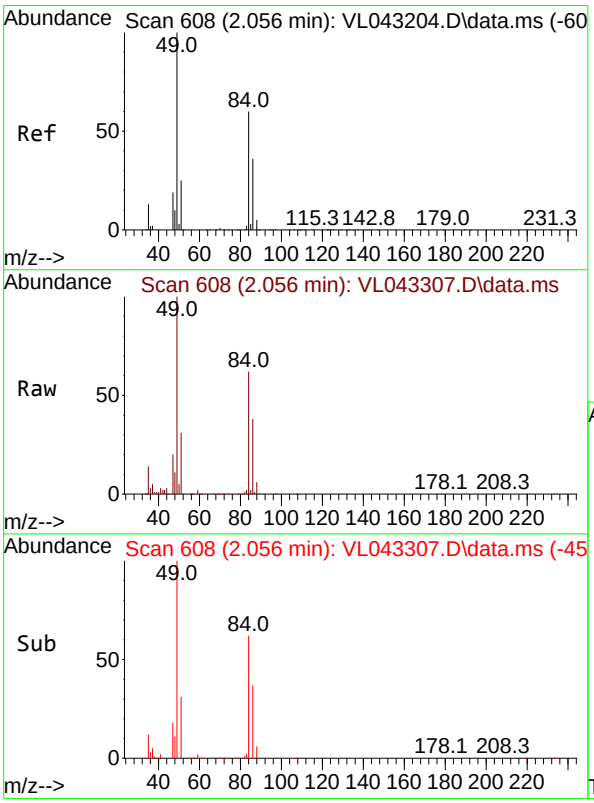
#19
Isopropyl Alcohol
Concen: 8.506 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 45 Resp: 85723

Ion	Ratio	Lower	Upper
45	100		
58	47.5	31.3	46.9#

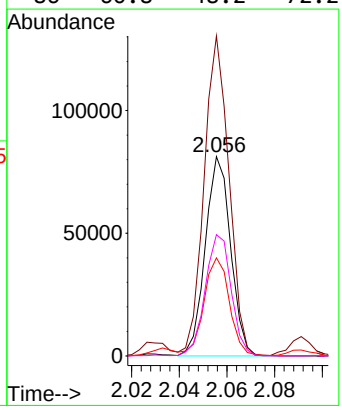


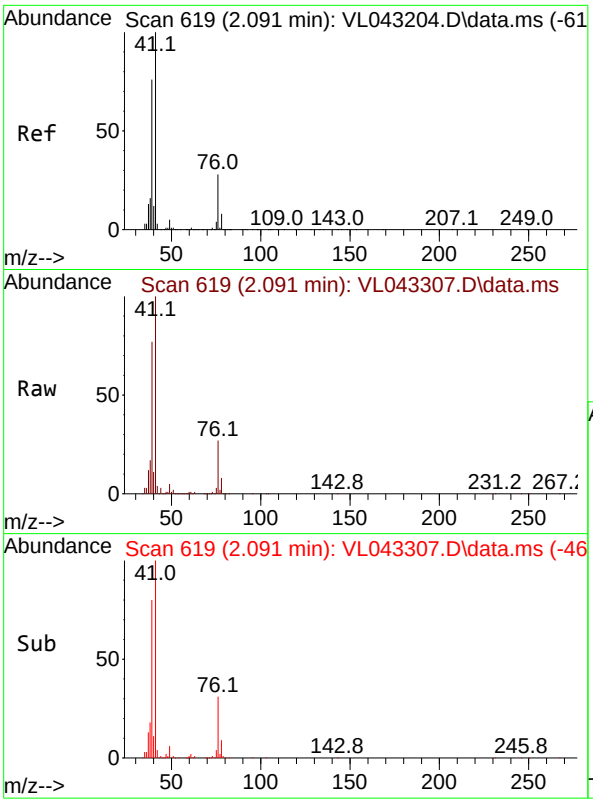


#20
Methylene Chloride
Concen: 11.551 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 84 Resp: 60065

Ion	Ratio	Lower	Upper
84	100		
49	158.6	132.9	199.3
51	48.9	34.8	52.2
86	60.8	48.2	72.2



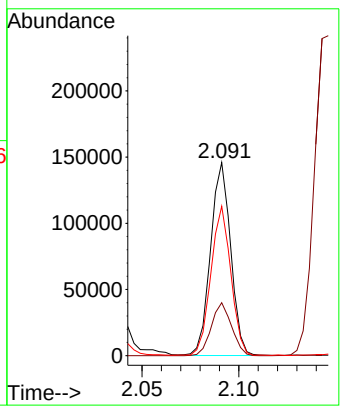


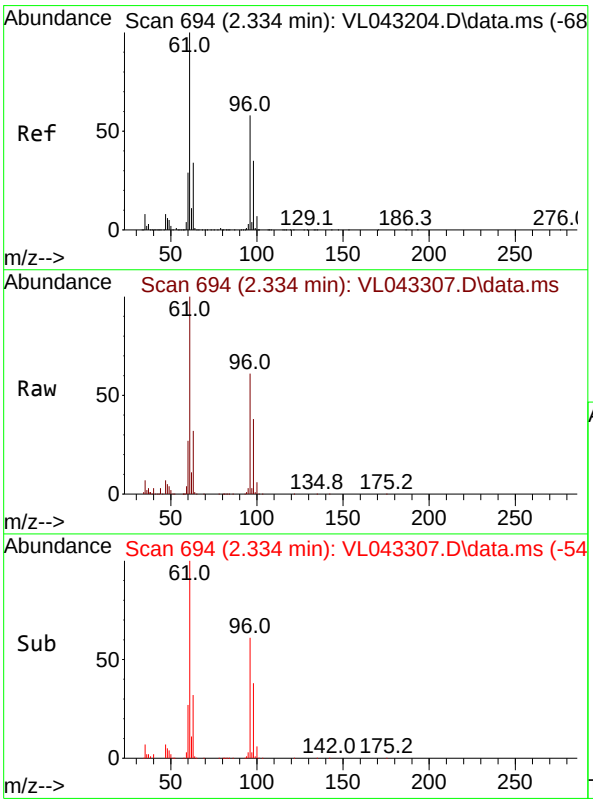
#21
Allyl Chloride
Concen: 8.773 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 41 Resp: 105272

Ion	Ratio	Lower	Upper
41	100		
76	27.6	22.1	33.1
39	76.5	61.0	91.4

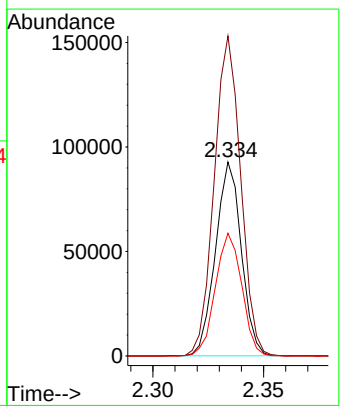


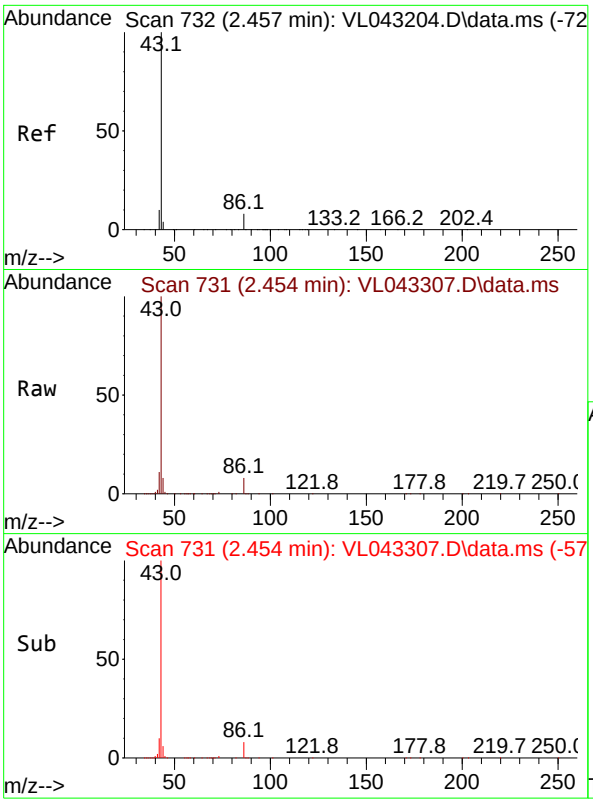


#22
trans-1,2-Dichloroethene
Concen: 10.348 ppbv
RT: 2.334 min Scan# 694
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 96 Resp: 75422

Ion	Ratio	Lower	Upper
96	100		
61	165.0	139.0	208.6
98	63.3	49.4	74.2



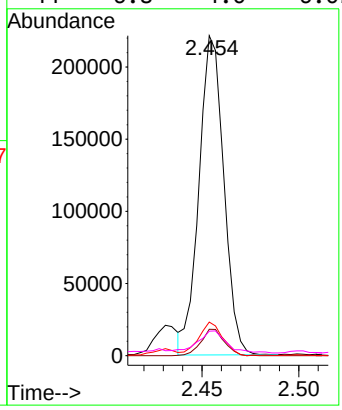


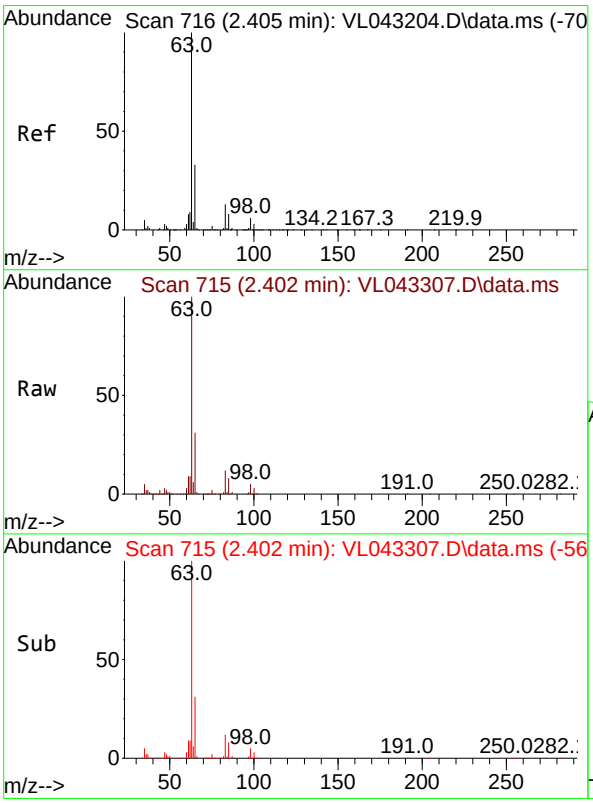
#23
Vinyl Acetate
Concen: 9.159 ppbv
RT: 2.454 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 43 Resp: 197206

Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.2	9.2
42	10.1	8.0	12.0
44	6.8	4.0	6.0#

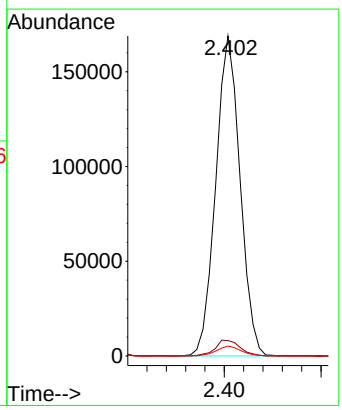


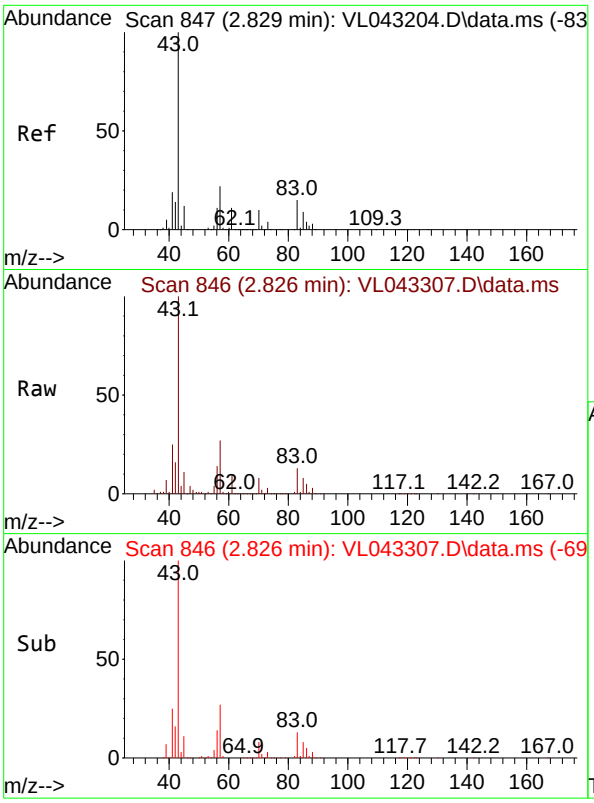


#24
1,1-Dichloroethane
Concen: 10.453 ppbv
RT: 2.402 min Scan# 715
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 63 Resp: 147058

Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.8	8.4
100	3.1	1.3	3.9



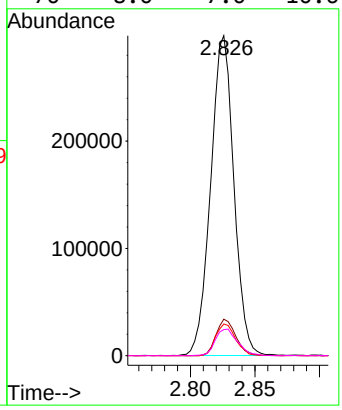


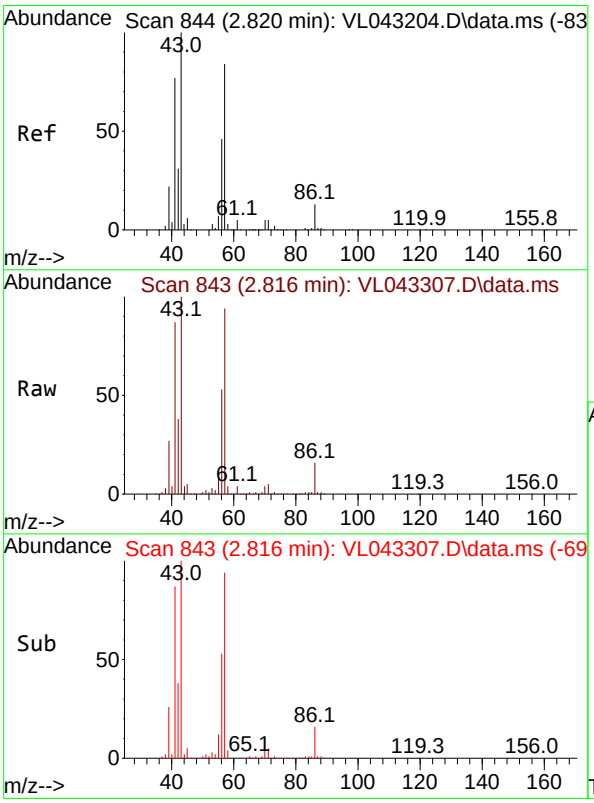
#25
Ethyl Acetate
Concen: 9.678 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 43 Resp: 372295

Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.1	12.1
61	8.6	7.0	10.4
70	8.0	7.0	10.6

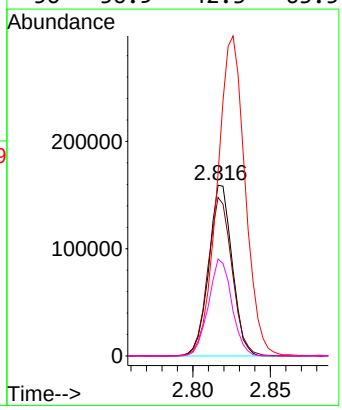


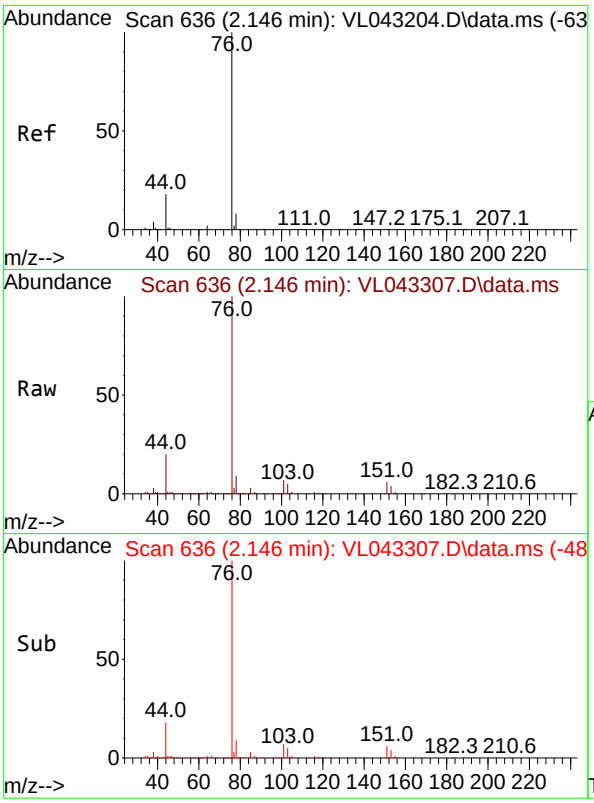


#26
Hexane
Concen: 9.898 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 57 Resp: 166920

Ion	Ratio	Lower	Upper
57	100		
41	96.6	74.6	111.8
43	224.2	179.0	268.4
56	56.9	42.3	63.5



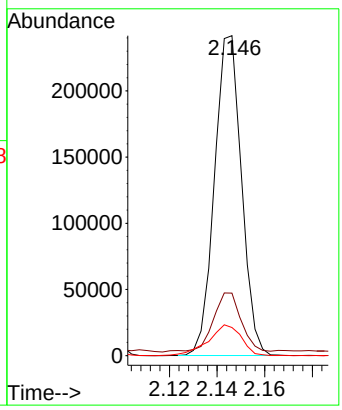


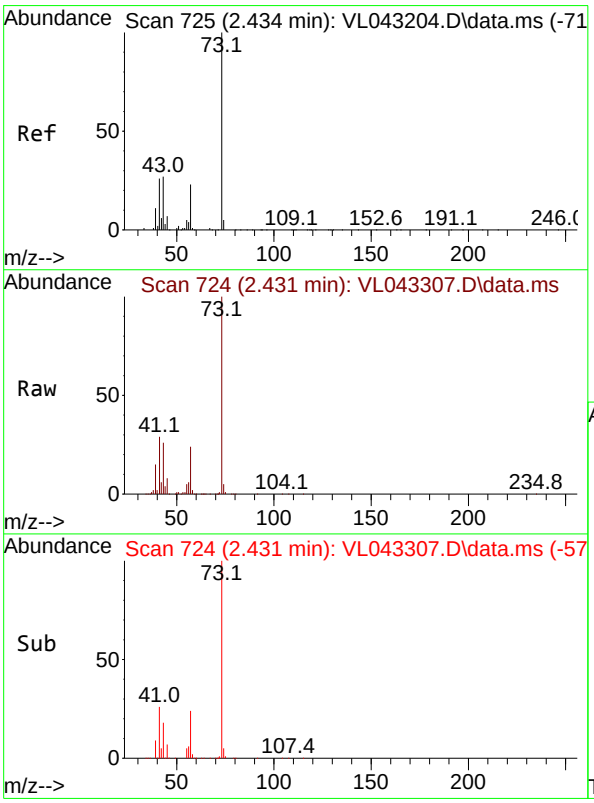
#27
Carbon Disulfide
Concen: 11.057 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 76 Resp: 190369

Ion	Ratio	Lower	Upper
76	100		
44	19.1	16.1	24.1
78	11.8	9.6	14.4

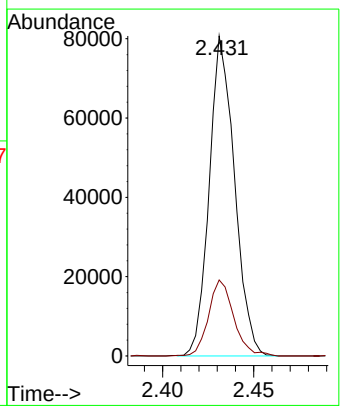


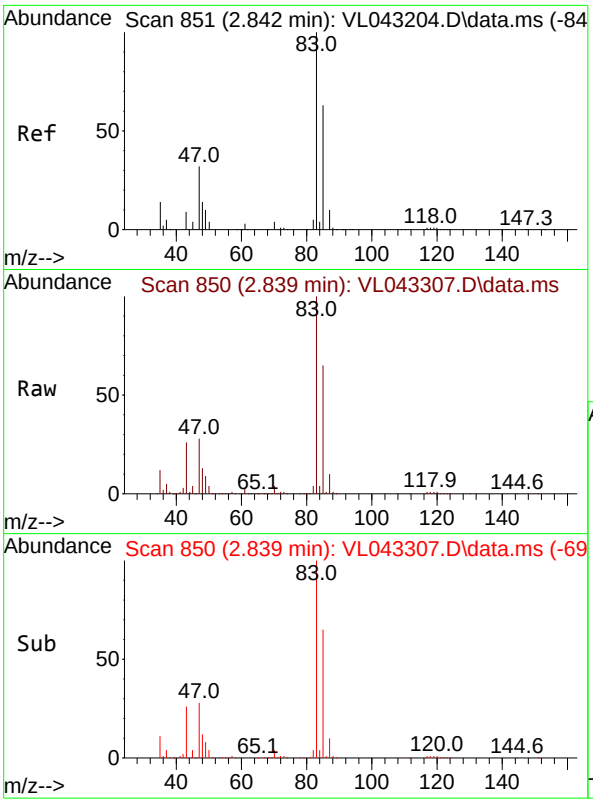


#28
Methyl tert-Butyl Ether
Concen: 9.389 ppbv
RT: 2.431 min Scan# 724
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 73 Resp: 77723

Ion	Ratio	Lower	Upper
73	100		
57	23.8	19.8	29.8



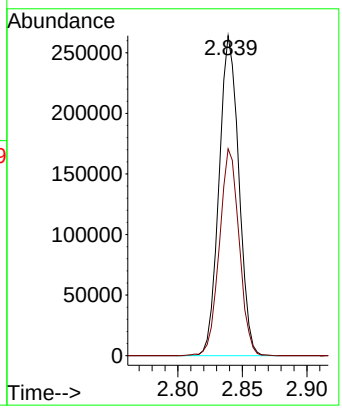


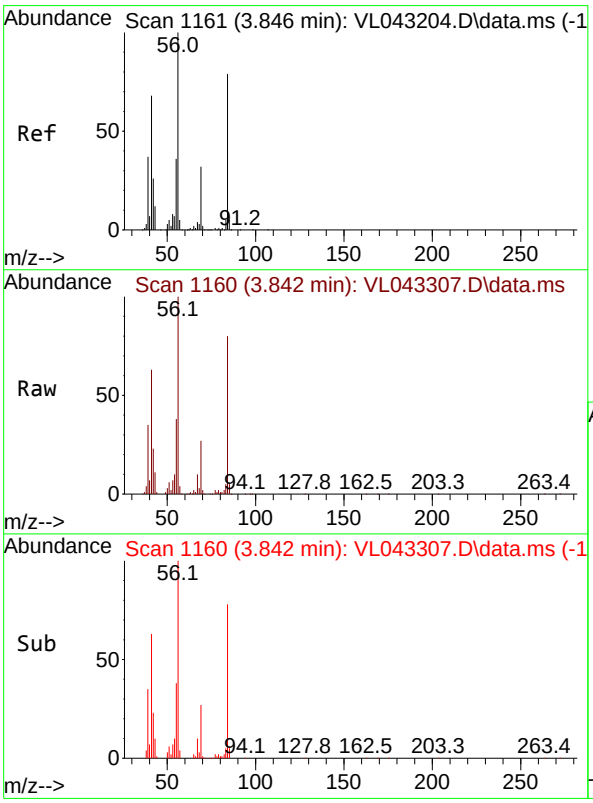
#29
Chloroform
Concen: 11.703 ppbv
RT: 2.839 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 83 Resp: 280544

Ion	Ratio	Lower	Upper
83	100		
85	64.6	50.5	75.7

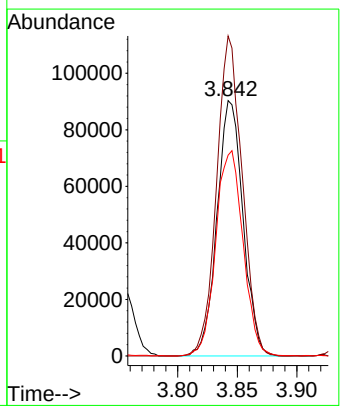


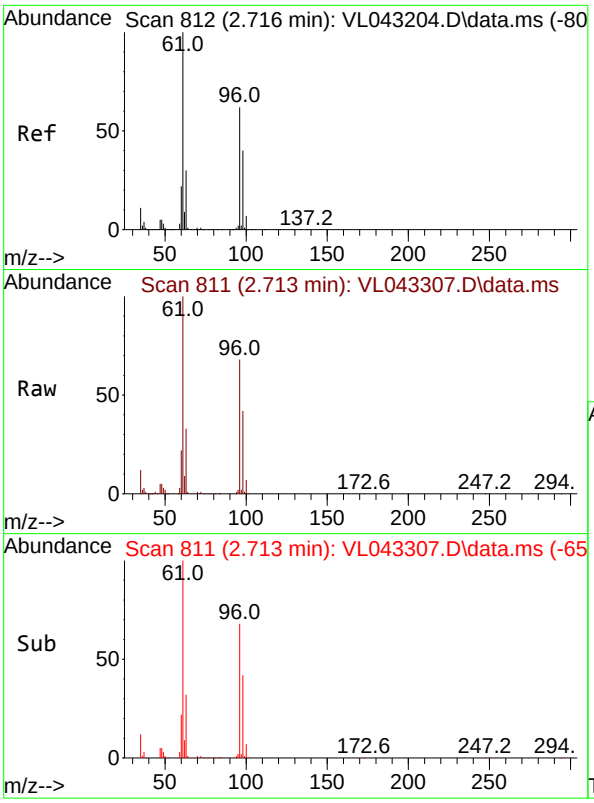


#30
Cyclohexane
Concen: 9.681 ppbv
RT: 3.842 min Scan# 1160
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 84 Resp: 136887

Ion	Ratio	Lower	Upper
84	100		
56	123.4	104.7	157.1
41	84.6	69.0	103.6



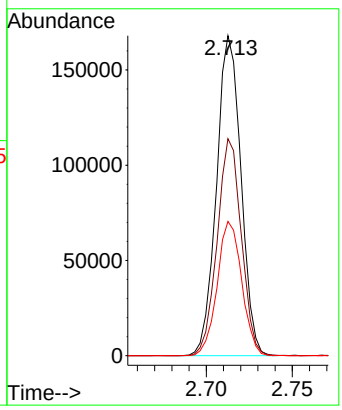


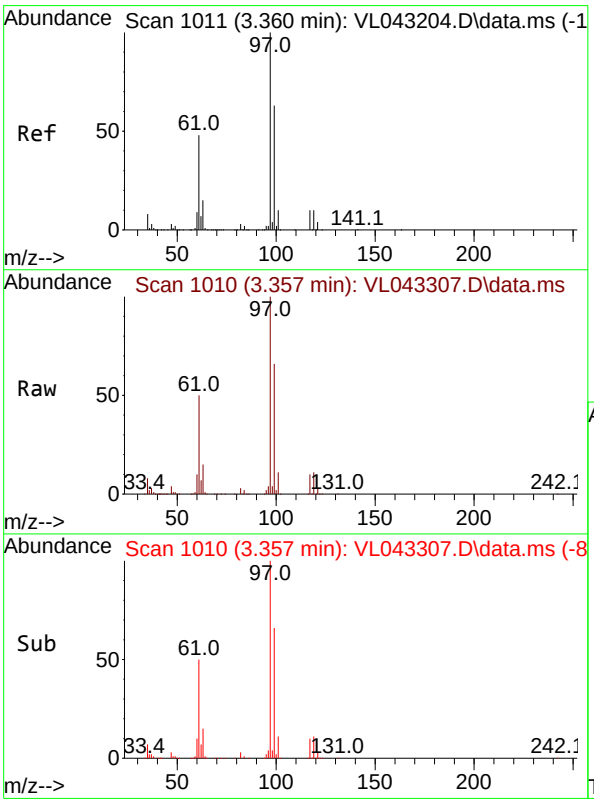
#31
cis-1,2-Dichloroethene
Concen: 9.915 ppbv
RT: 2.713 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 61 Resp: 166197

Ion	Ratio	Lower	Upper
61	100		
96	67.8	49.3	73.9
98	42.0	32.1	48.1

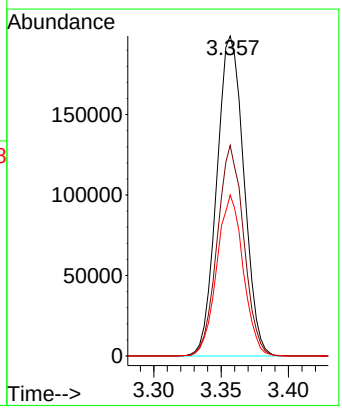


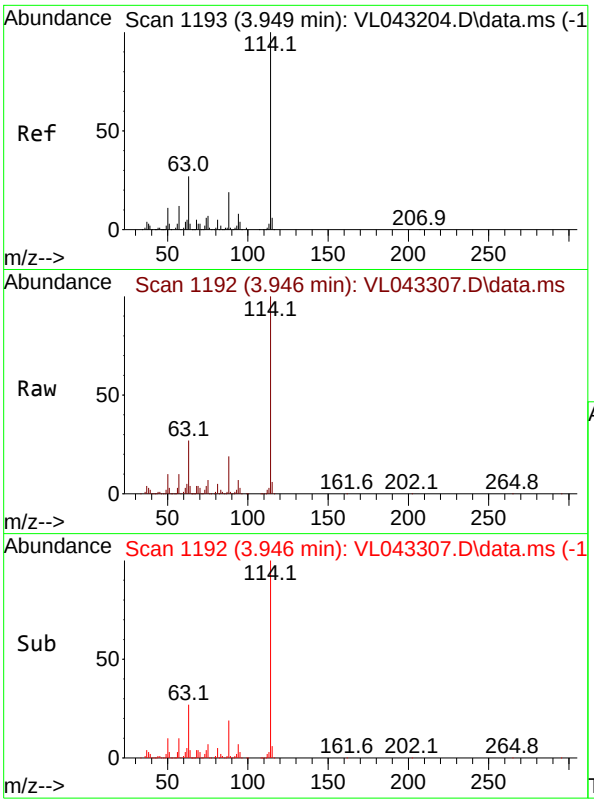


#32
1,1,1-Trichloroethane
Concen: 10.886 ppbv
RT: 3.357 min Scan# 1010
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 97 Resp: 278163

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.3	75.5
61	49.0	38.9	58.3



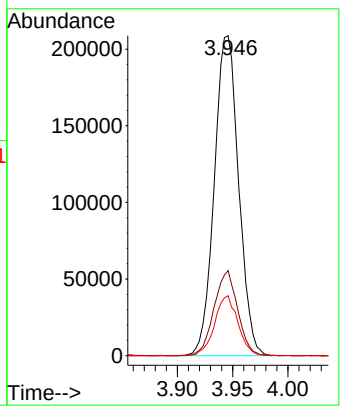


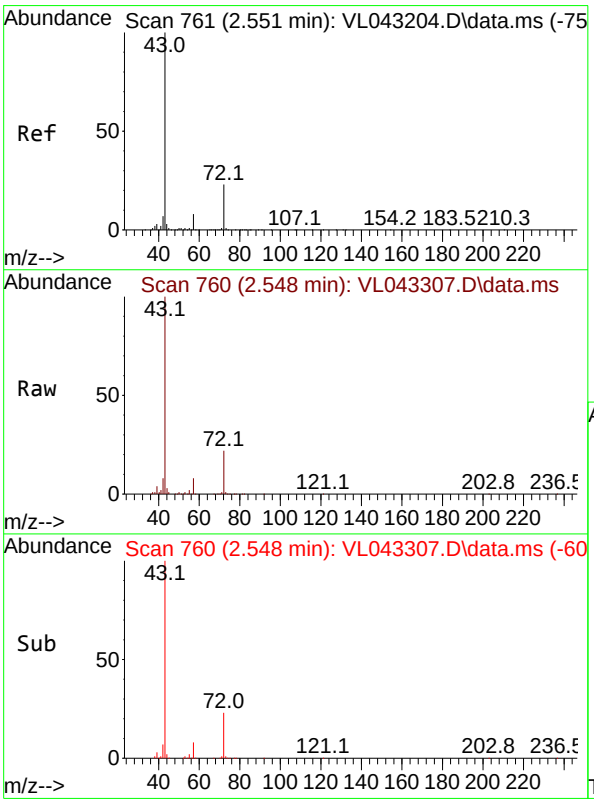
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:114 Resp: 319254

Ion	Ratio	Lower	Upper
114	100		
63	25.8	21.0	31.6
88	17.9	14.9	22.3

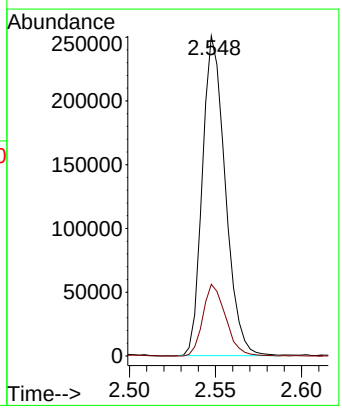


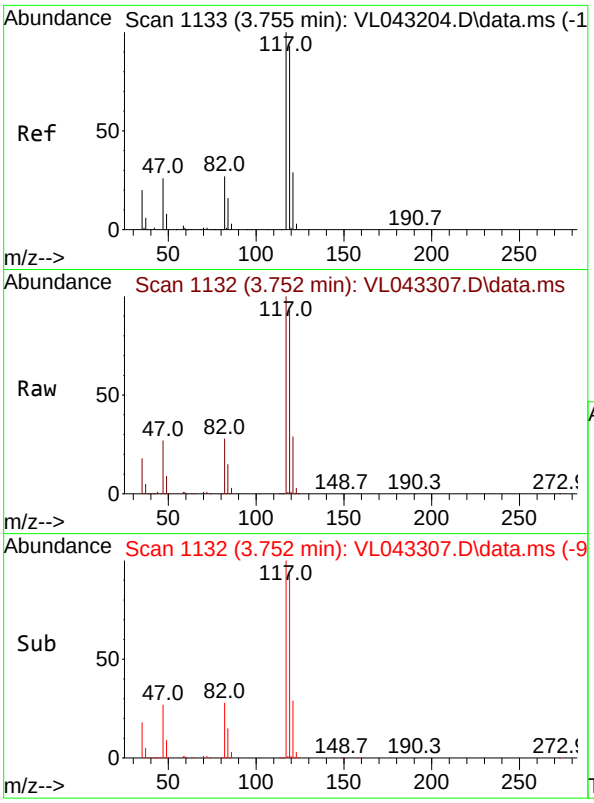


#34
2-Butanone
Concen: 10.307 ppbv
RT: 2.548 min Scan# 760
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 43 Resp: 232285

Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.1	27.1



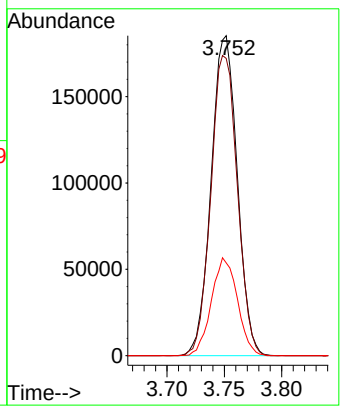


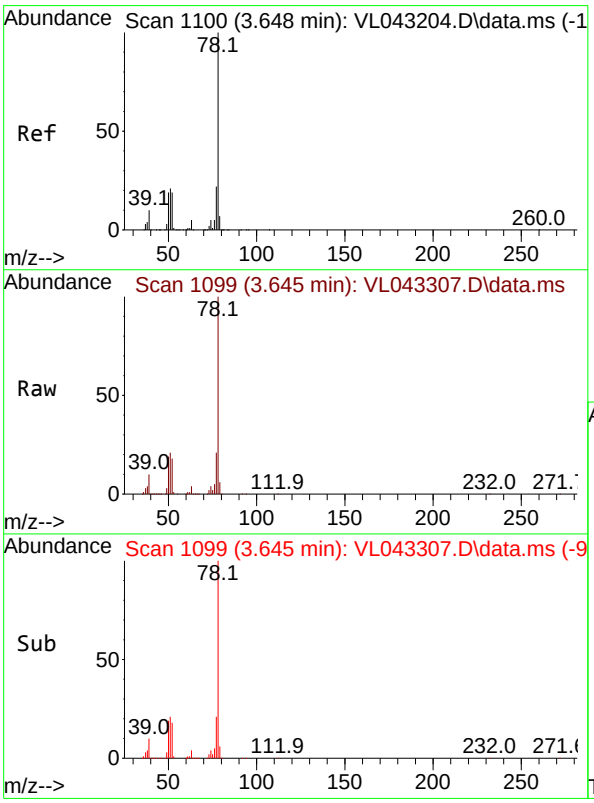
#35
Carbon Tetrachloride
Concen: 12.109 ppbv
RT: 3.752 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:117 Resp: 293430

Ion	Ratio	Lower	Upper
117	100		
119	92.9	74.6	112.0
121	29.0	23.2	34.8

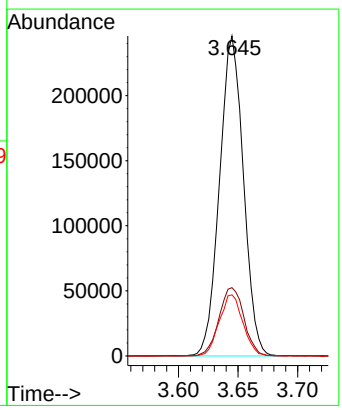


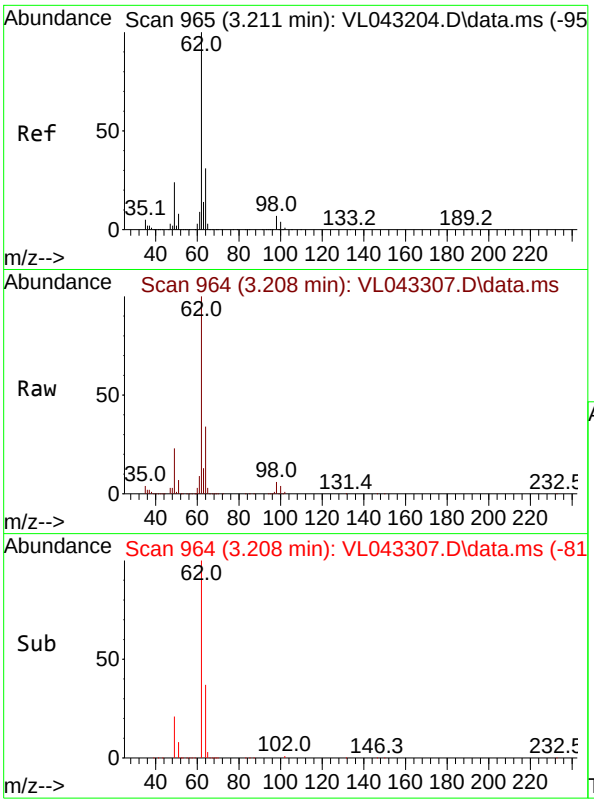


#36
Benzene
Concen: 11.194 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 78 Resp: 342251

Ion	Ratio	Lower	Upper
78	100		
77	21.3	17.5	26.3
50	19.1	15.5	23.3



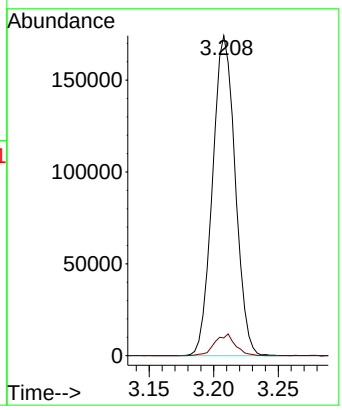


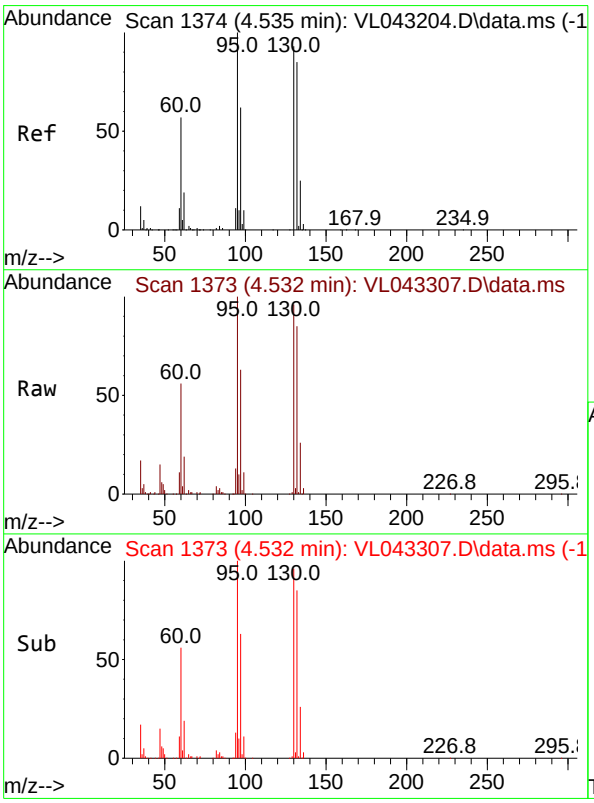
#37
1,2-Dichloroethane
Concen: 11.880 ppbv
RT: 3.208 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 62 Resp: 212457

Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.5	8.3

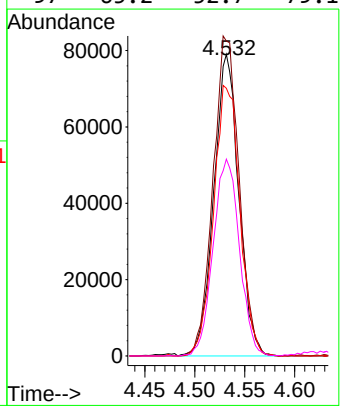


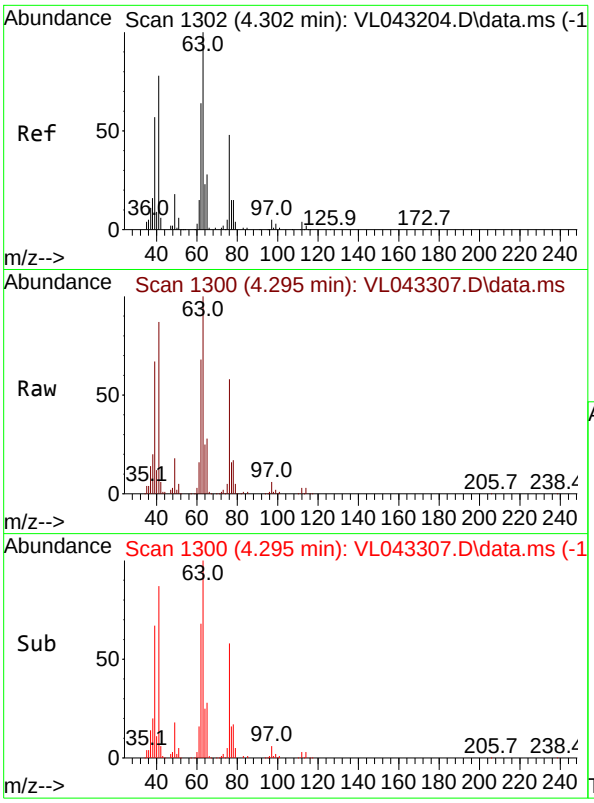


#38
Trichloroethene
Concen: 11.493 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:130 Resp: 137474

Ion	Ratio	Lower	Upper
130	100		
95	104.4	85.7	128.5
132	88.8	73.4	110.0
97	65.2	52.7	79.1



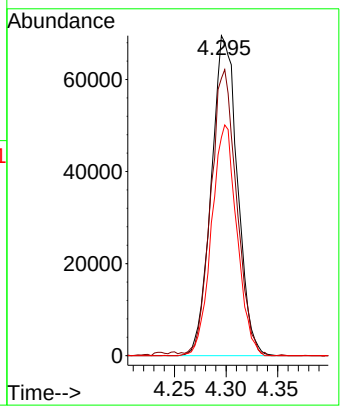


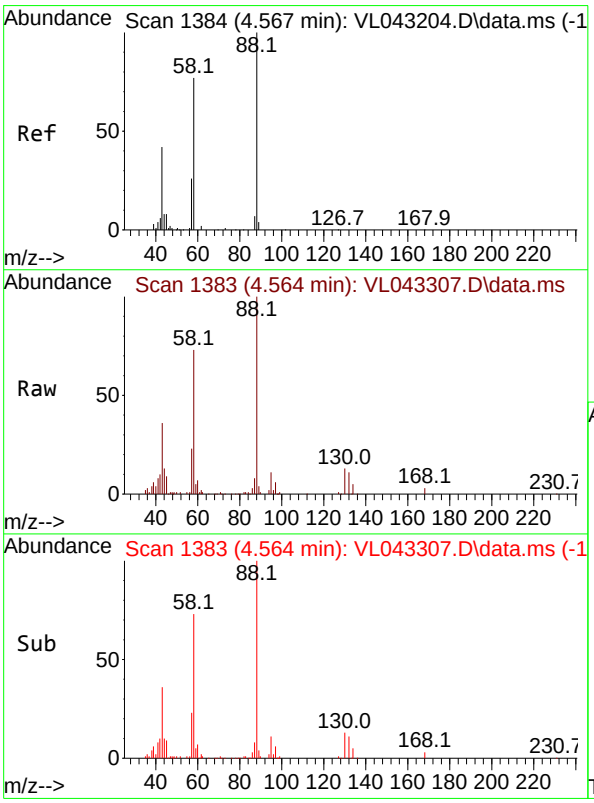
#39
1,2-Dichloropropane
Concen: 10.934 ppbv
RT: 4.295 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 63 Resp: 122348

Ion	Ratio	Lower	Upper
63	100		
41	86.4	62.6	93.8
62	68.2	51.0	76.6

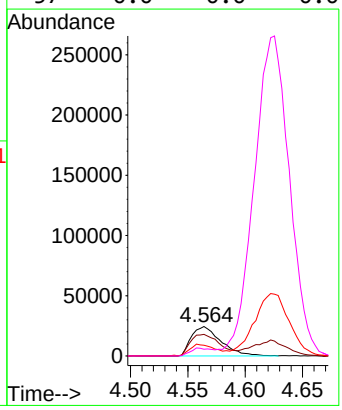


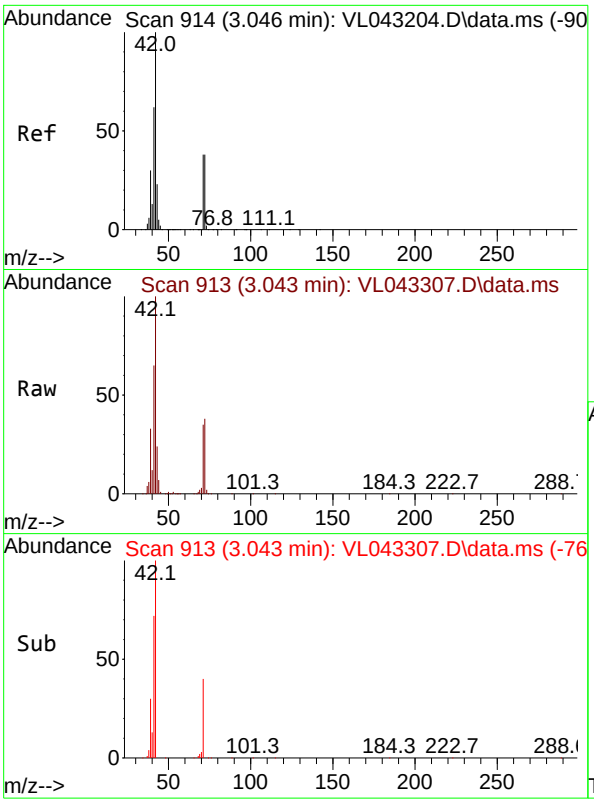


#40
1,4-Dioxane
Concen: 8.743 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 88 Resp: 43982

Ion	Ratio	Lower	Upper
88	100		
58	76.2	63.0	94.6
43	37.8	32.5	48.7
57	0.0	0.0	0.0



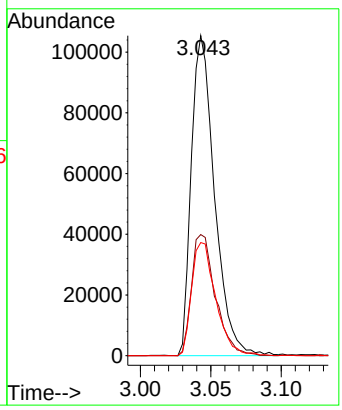


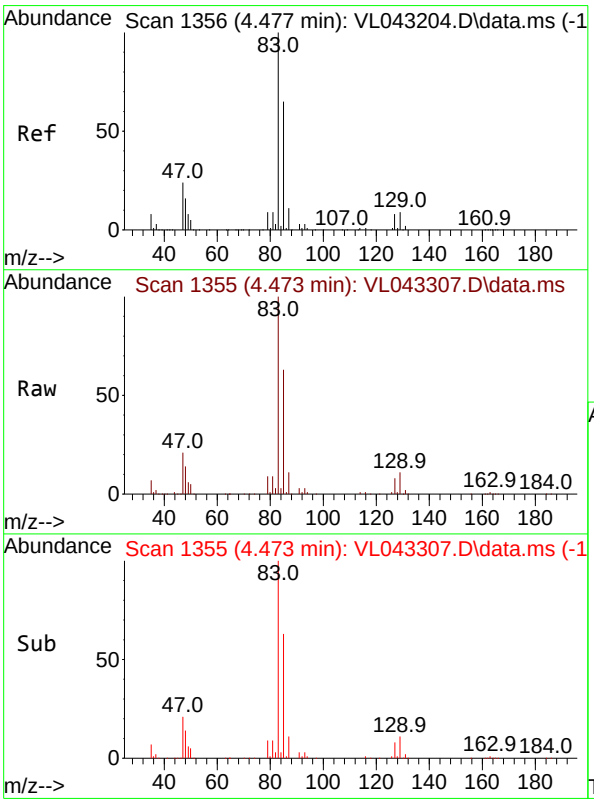
#41
Tetrahydrofuran
Concen: 9.747 ppbv
RT: 3.043 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 42 Resp: 121301

Ion	Ratio	Lower	Upper
42	100		
72	38.9	30.6	46.0
71	36.7	30.5	45.7

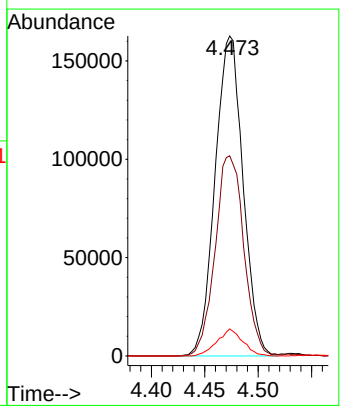


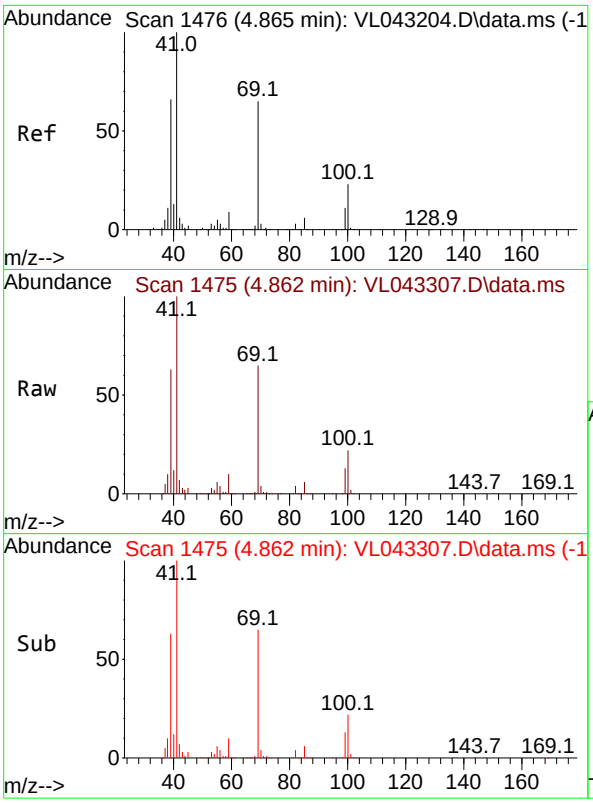


#42
Bromodichloromethane
Concen: 12.008 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 83 Resp: 296233

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.7	77.5
127	8.5	6.3	9.5



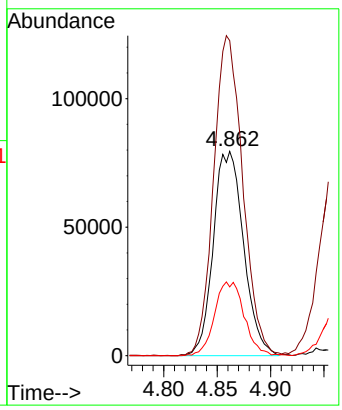


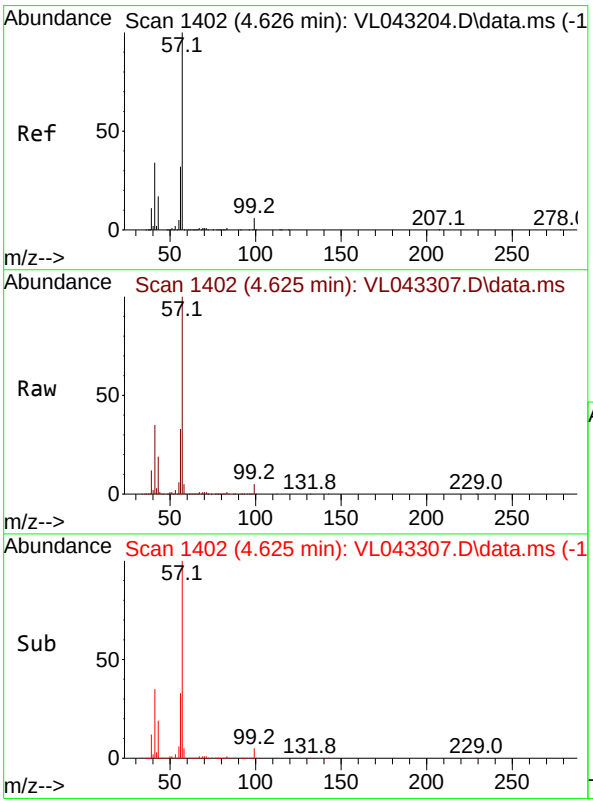
#43
Methyl Methacrylate
Concen: 9.654 ppbv
RT: 4.862 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 69 Resp: 156667

Ion	Ratio	Lower	Upper
69	100		
41	150.8	126.7	190.1
100	35.4	28.6	43.0

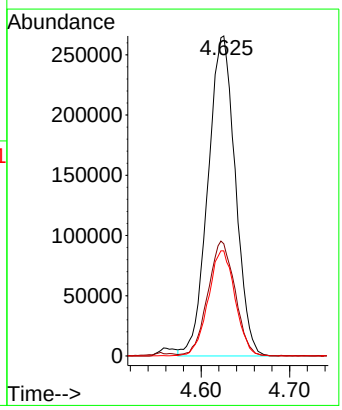


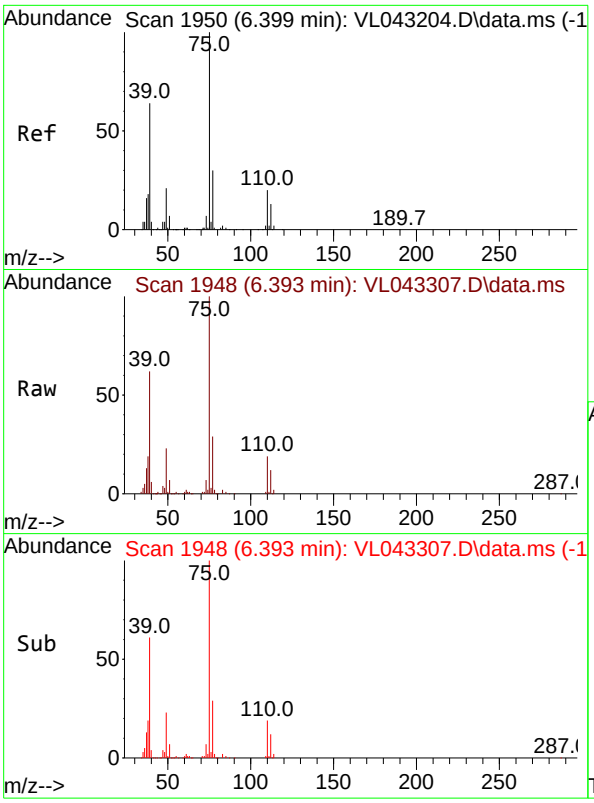


#44
2,2,4-Trimethylpentane
Concen: 10.839 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 57 Resp: 569168

Ion	Ratio	Lower	Upper
57	100		
41	36.5	28.0	42.0
56	32.5	25.6	38.4



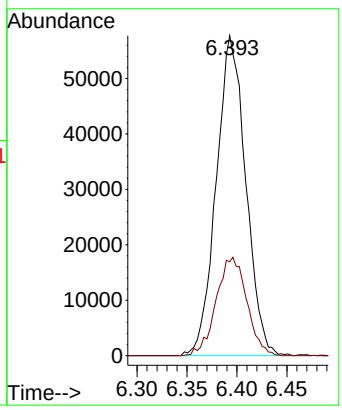


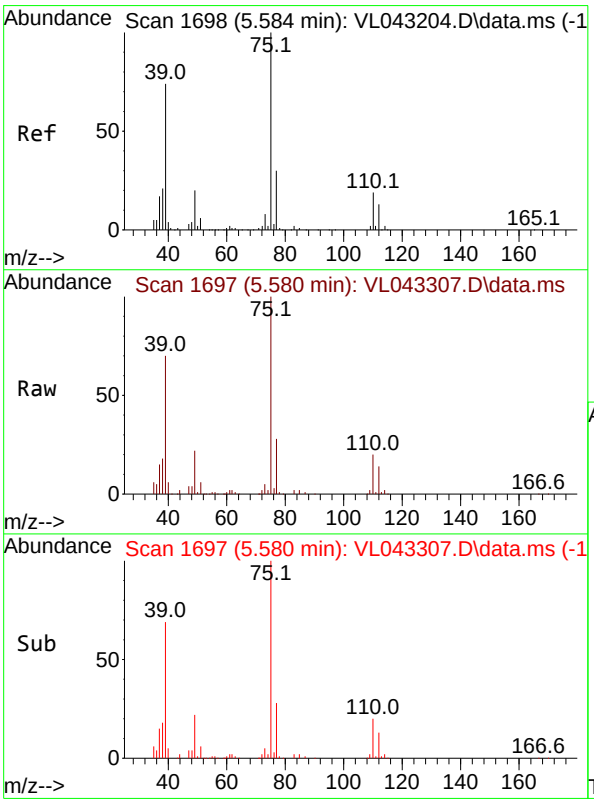
#45
t-1,3-Dichloropropene
Concen: 7.826 ppbv
RT: 6.393 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 75 Resp: 118391

Ion	Ratio	Lower	Upper
75	100		
77	29.3	24.3	36.5

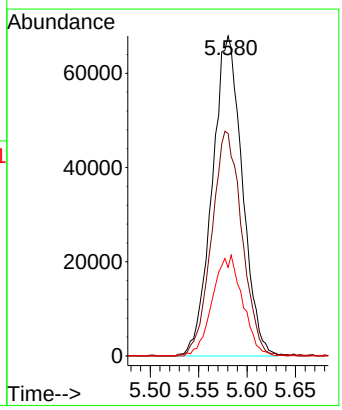


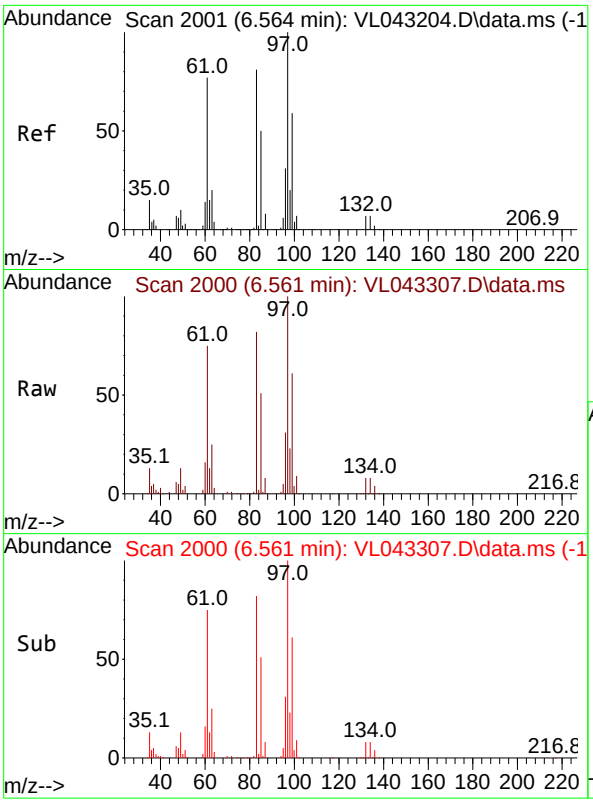


#46
cis-1,3-Dichloropropene
Concen: 8.255 ppbv
RT: 5.580 min Scan# 1697
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 75 Resp: 146637

Ion	Ratio	Lower	Upper
75	100		
39	69.0	59.1	88.7
77	27.6	24.2	36.2



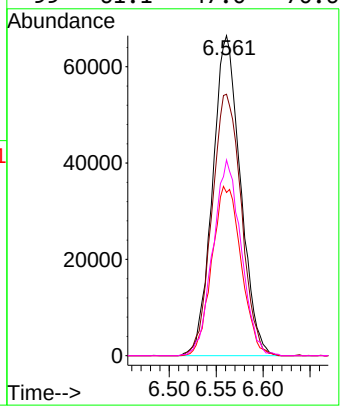


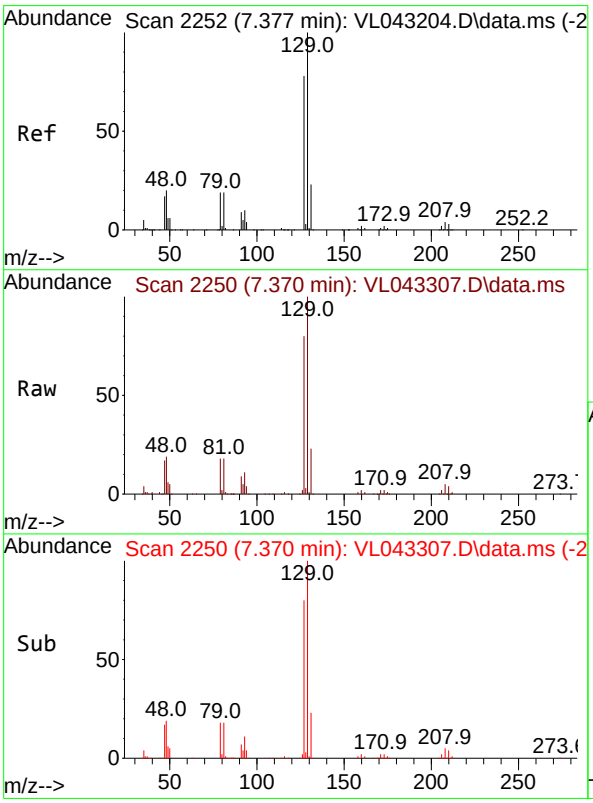
#47
1,1,2-Trichloroethane
Concen: 11.557 ppbv
RT: 6.561 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 97 Resp: 137247

Ion	Ratio	Lower	Upper
97	100		
83	81.7	64.6	97.0
85	51.0	39.4	59.2
99	61.1	47.0	70.6

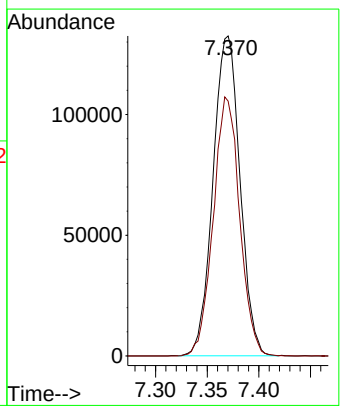


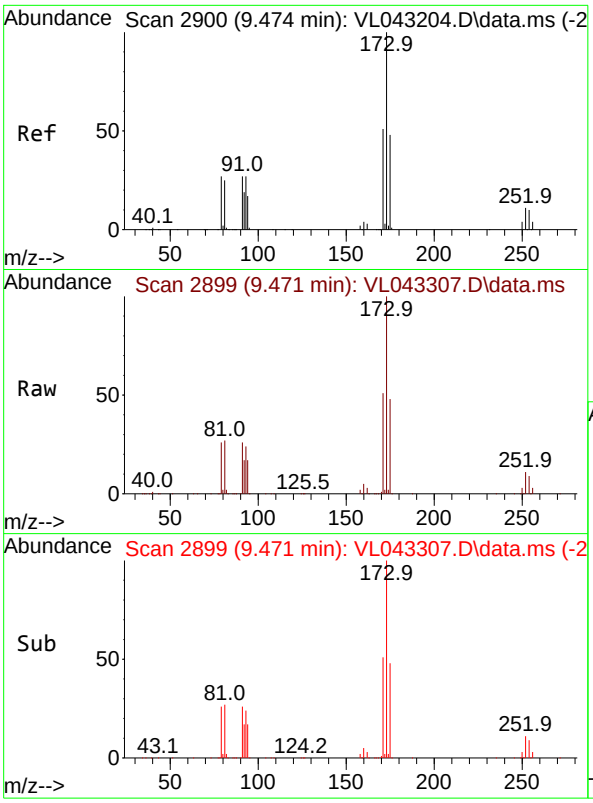


#48
Dibromochloromethane
Concen: 11.793 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:129 Resp: 240784

Ion	Ratio	Lower	Upper
129	100		
127	79.2	39.3	117.9



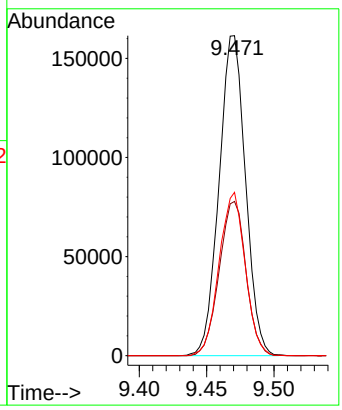


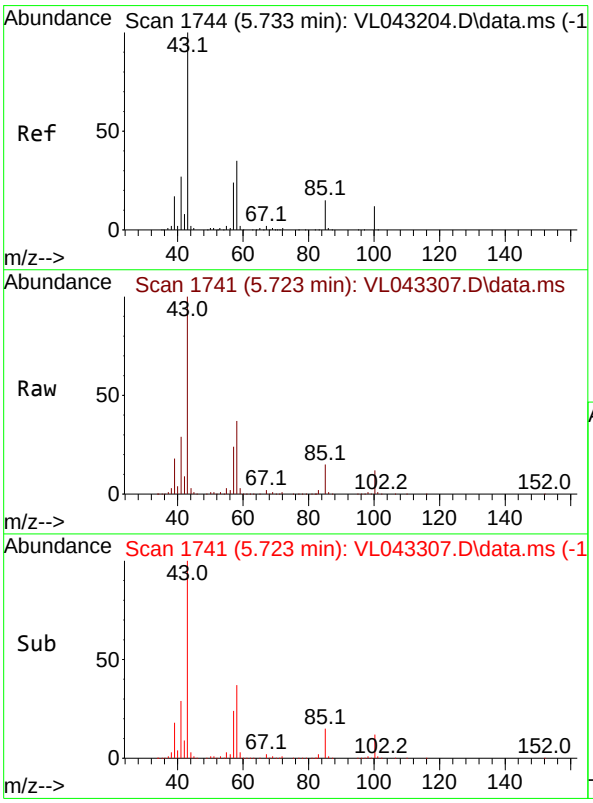
#49
Bromoform
Concen: 12.188 ppbv
RT: 9.471 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:173 Resp: 220417

Ion	Ratio	Lower	Upper
173	100		
175	48.8	38.6	58.0
171	50.4	40.6	61.0

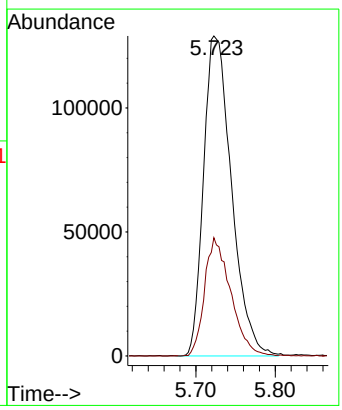


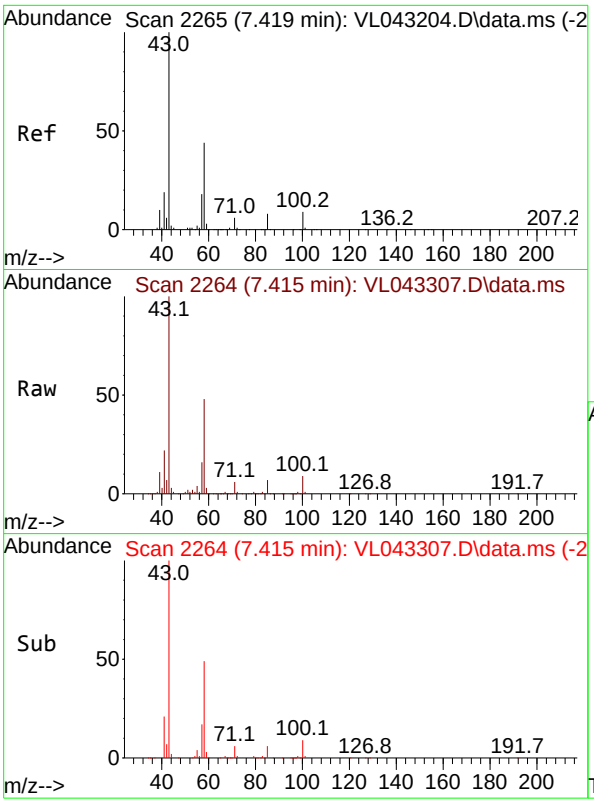


#50
4-Methyl-2-Pentanone
Concen: 9.951 ppbv
RT: 5.723 min Scan# 1741
Delta R.T. -0.010 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 43 Resp: 315888

Ion	Ratio	Lower	Upper
43	100		
58	34.5	28.4	42.6



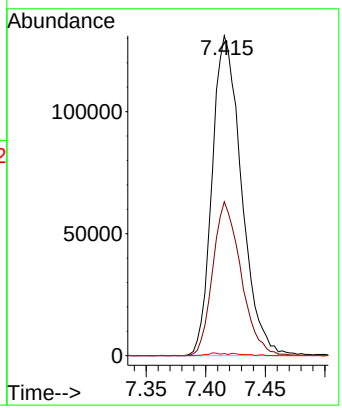


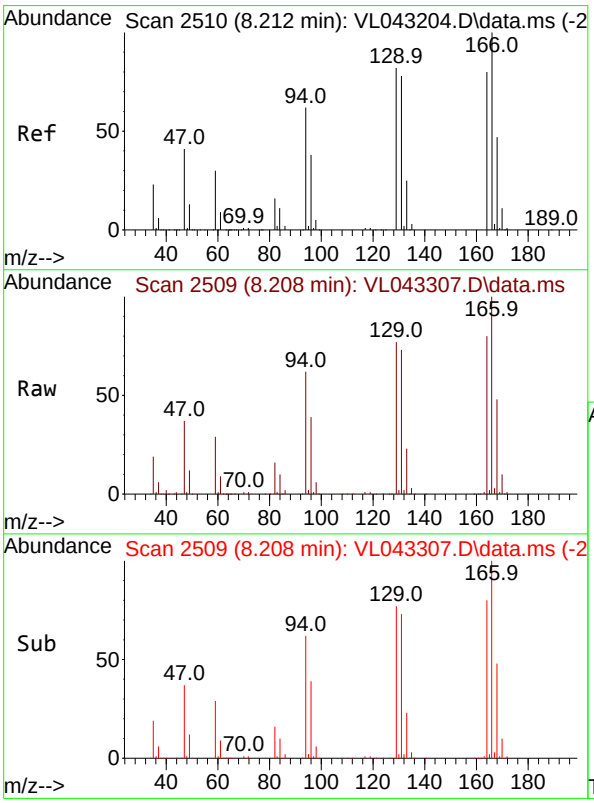
#51
2-Hexanone
Concen: 9.075 ppbv
RT: 7.415 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 43 Resp: 223708

Ion	Ratio	Lower	Upper
43	100		
58	46.6	38.4	57.6
98	0.9	0.0	0.0#

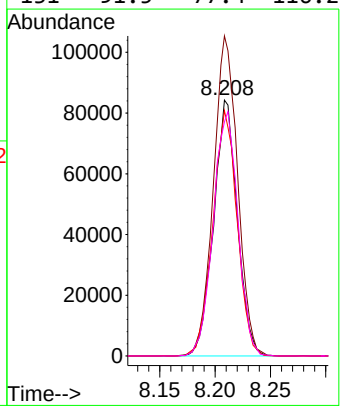


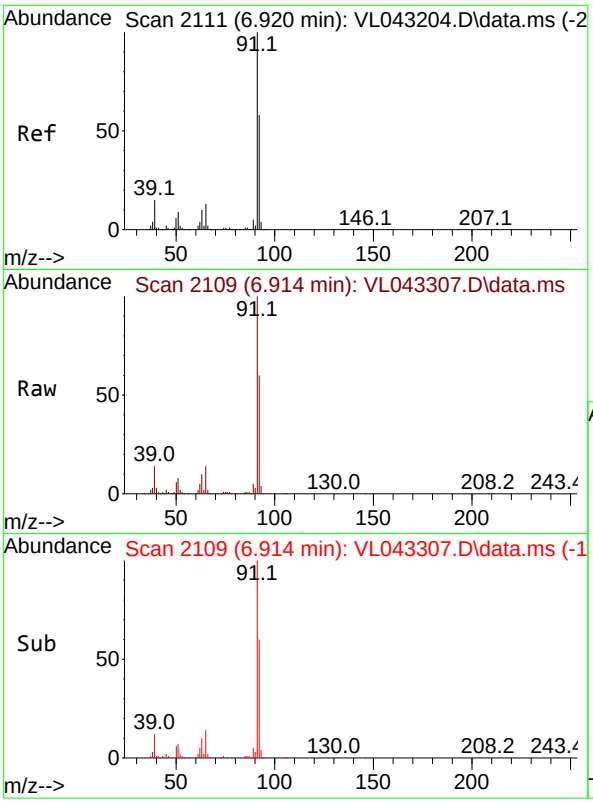


#52
Tetrachloroethene
Concen: 11.051 ppbv
RT: 8.208 min Scan# 2509
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:164 Resp: 125681

Ion	Ratio	Lower	Upper
164	100		
166	125.0	99.4	149.2
129	95.8	81.8	122.8
131	91.5	77.4	116.2



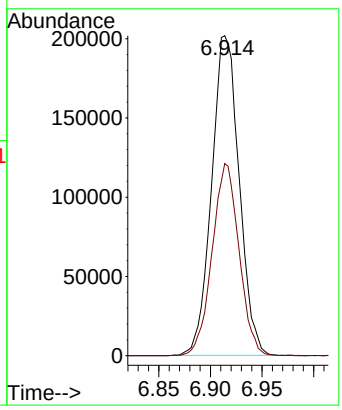


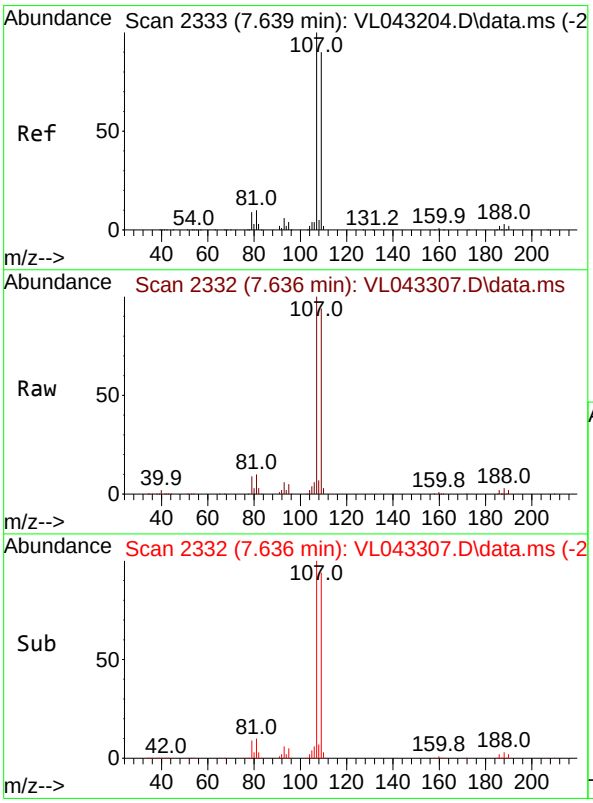
#53
Toluene
Concen: 10.347 ppbv
RT: 6.914 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 91 Resp: 374608

Ion	Ratio	Lower	Upper
91	100		
92	58.7	47.4	71.0

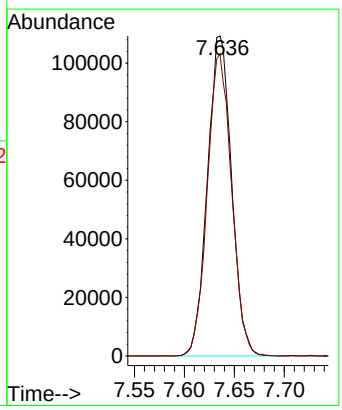


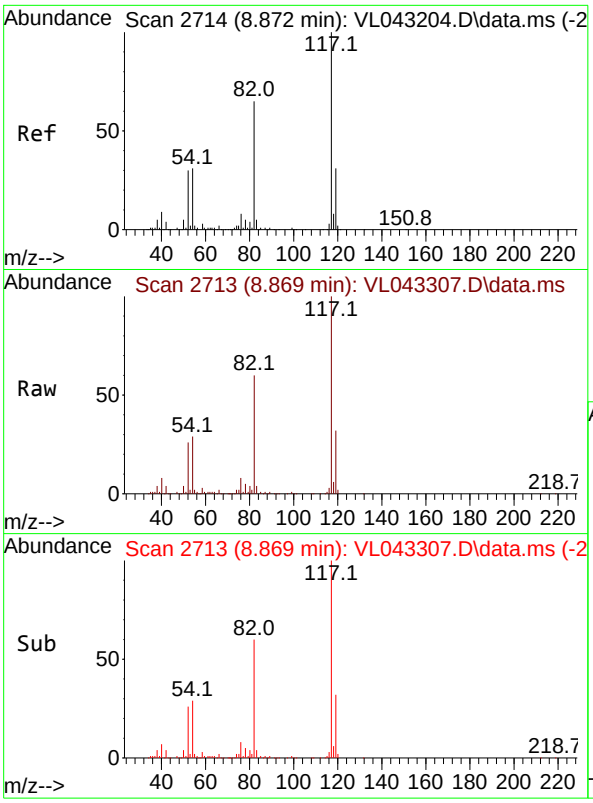


#54
1,2-Dibromoethane
Concen: 10.518 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:107 Resp: 183811

Ion	Ratio	Lower	Upper
107	100		
109	94.4	72.1	108.1



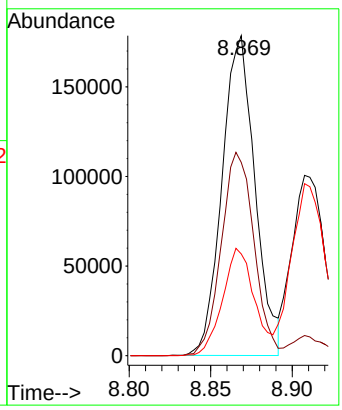


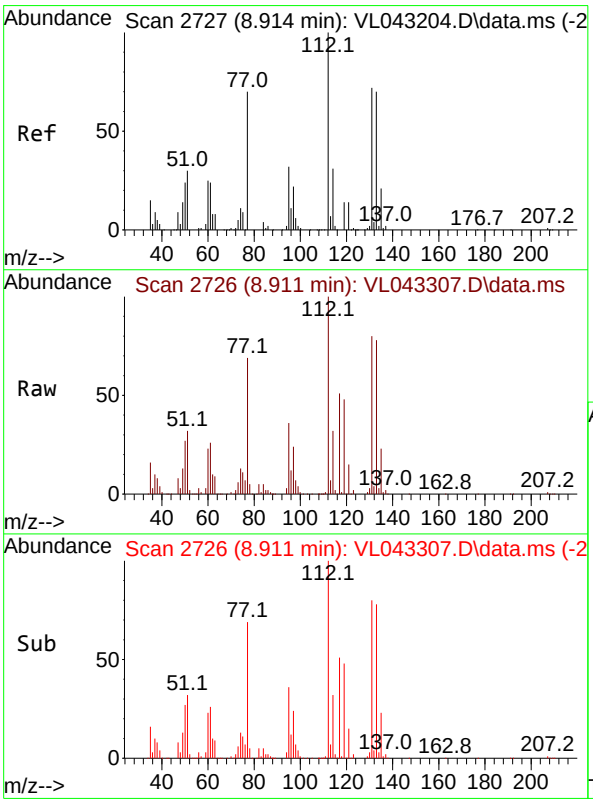
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:117 Resp: 250711

Ion	Ratio	Lower	Upper
117	100		
82	69.4	56.1	84.1
119	32.6	25.0	37.6

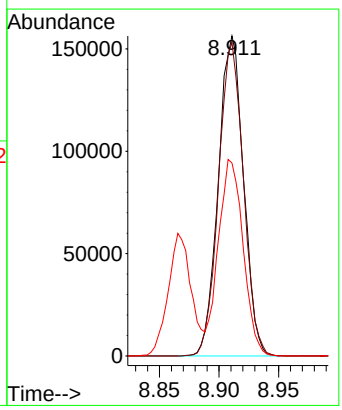


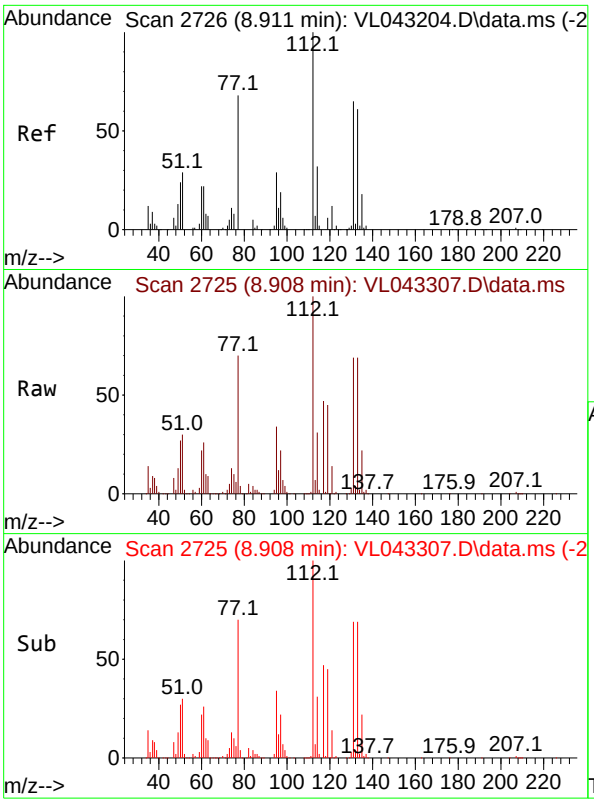


#56
1,1,1,2-Tetrachloroethane
Concen: 12.449 ppbv
RT: 8.911 min Scan# 2726
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:131 Resp: 229368

Ion	Ratio	Lower	Upper
131	100		
133	96.8	77.4	116.2
119	60.5	49.1	73.7



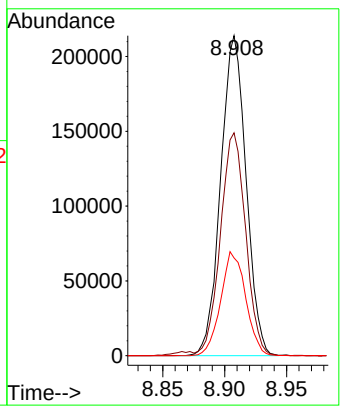


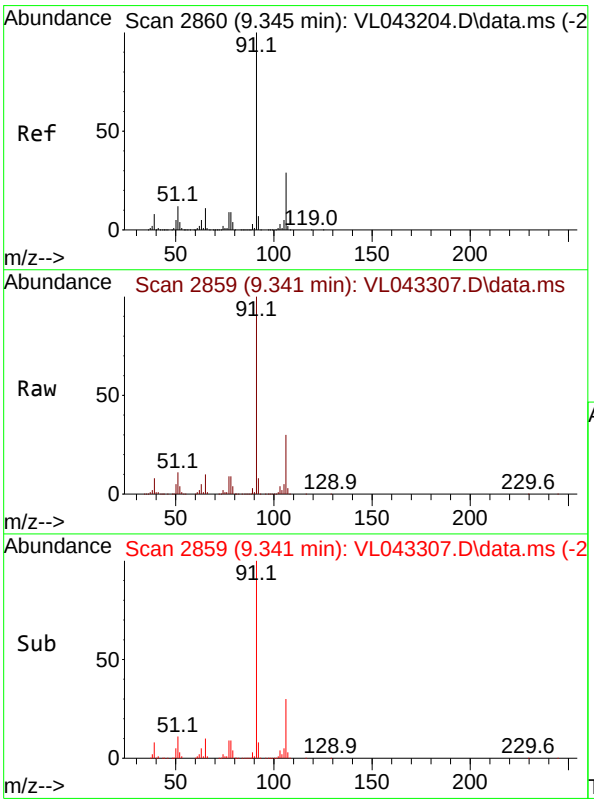
#57
Chlorobenzene
Concen: 11.869 ppbv
RT: 8.908 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:112 Resp: 305509

Ion	Ratio	Lower	Upper
112	100		
77	69.6	55.5	83.3
114	30.5	29.1	35.5

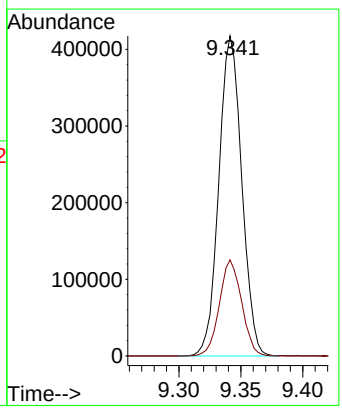


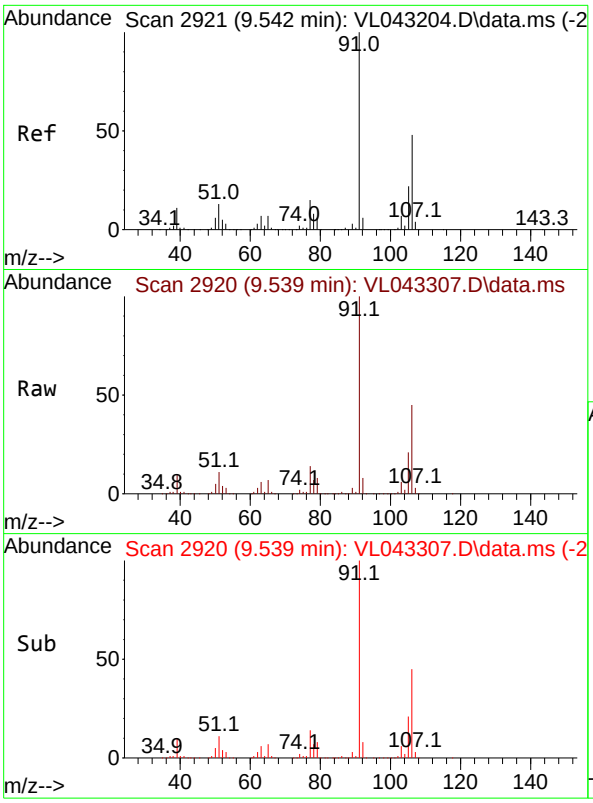


#58
Ethyl Benzene
Concen: 11.161 ppbv
RT: 9.341 min Scan# 2859
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 91 Resp: 538550

Ion	Ratio	Lower	Upper
91	100		
106	30.1	22.8	34.2



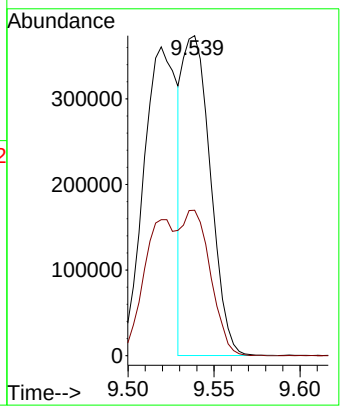


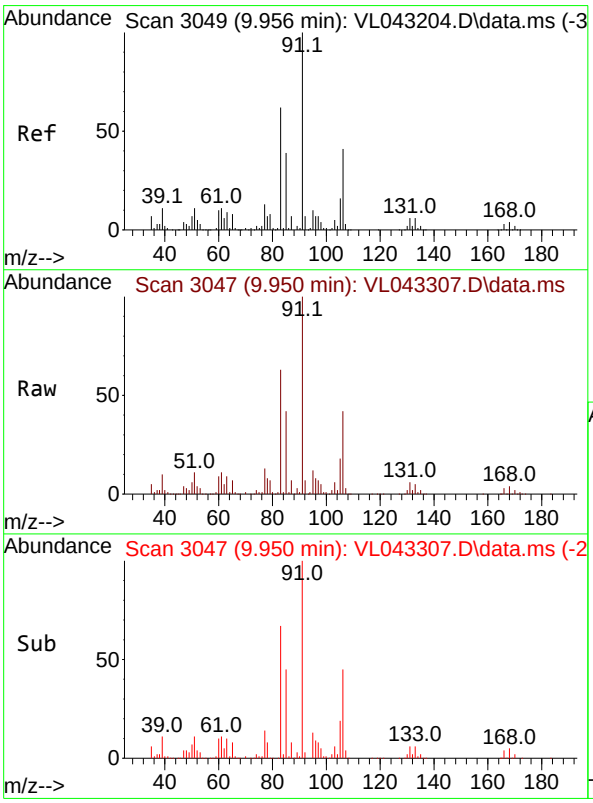
#59
m/p-Xylene
Concen: 10.873 ppbv
RT: 9.539 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 91 Resp: 420640

Ion	Ratio	Lower	Upper
91	100		
106	97.4	36.1	54.1#

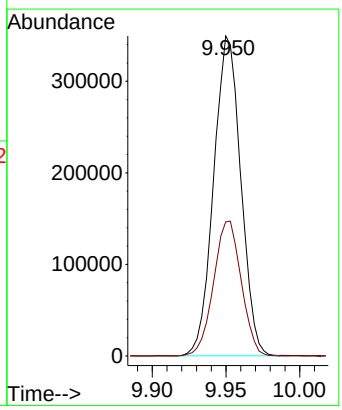


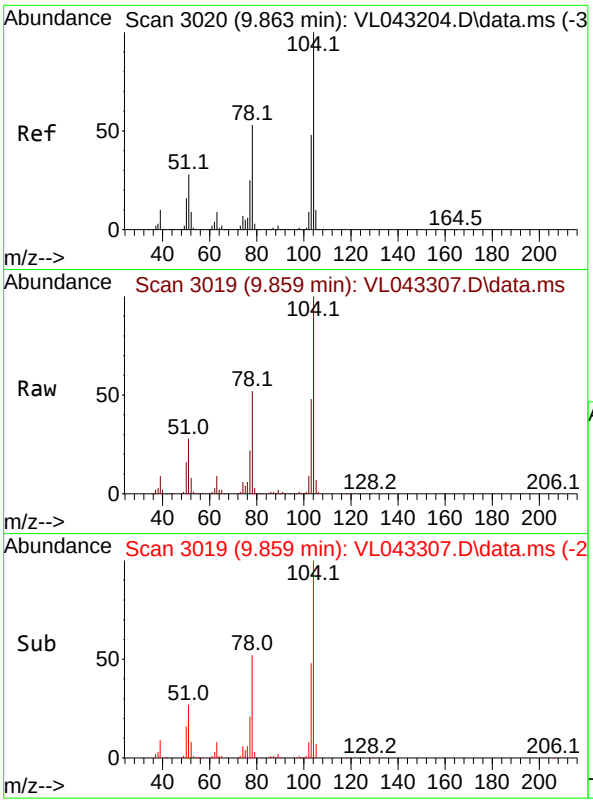


#60
o-Xylene
Concen: 11.560 ppbv
RT: 9.950 min Scan# 3047
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 91 Resp: 446789

Ion	Ratio	Lower	Upper
91	100		
106	43.1	20.9	62.8



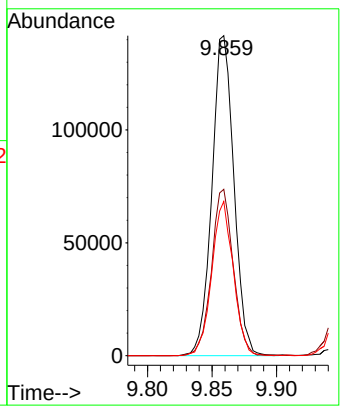


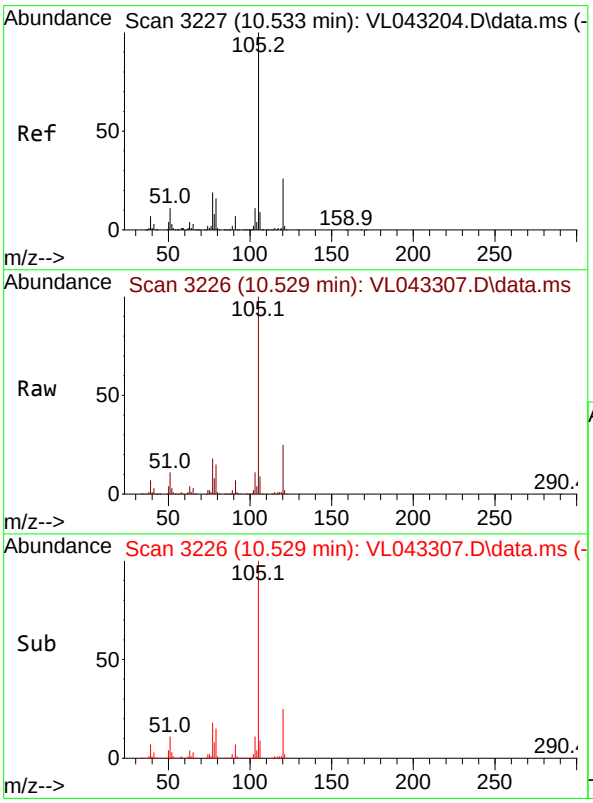
#61
Styrene
Concen: 9.925 ppbv
RT: 9.859 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:104 Resp: 167877

Ion	Ratio	Lower	Upper
104	100		
78	51.5	42.1	63.1
103	47.4	37.2	55.8

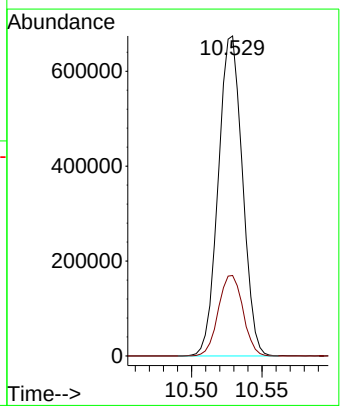


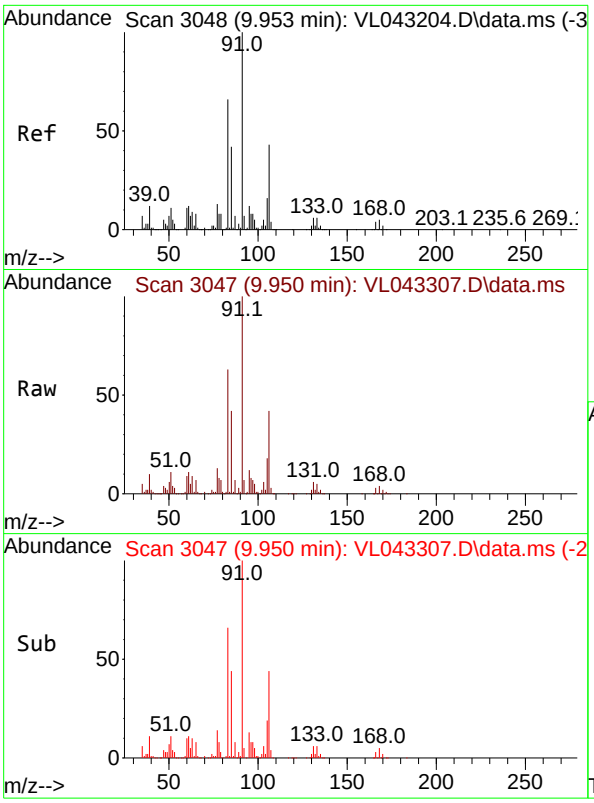


#62
Isopropylbenzene
Concen: 11.652 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:105 Resp: 805674

Ion	Ratio	Lower	Upper
105	100		
120	25.6	19.8	29.8



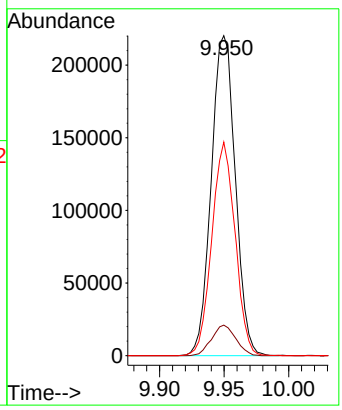


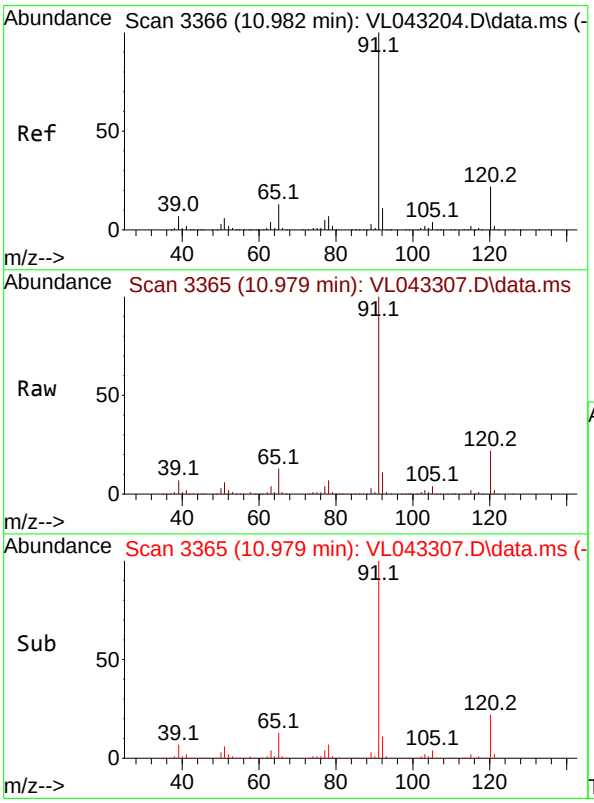
#63
1,1,2,2-Tetrachloroethane
Concen: 11.611 ppbv
RT: 9.950 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 83 Resp: 285542

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	64.5	31.9	95.9

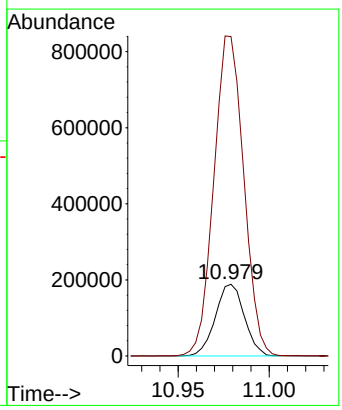


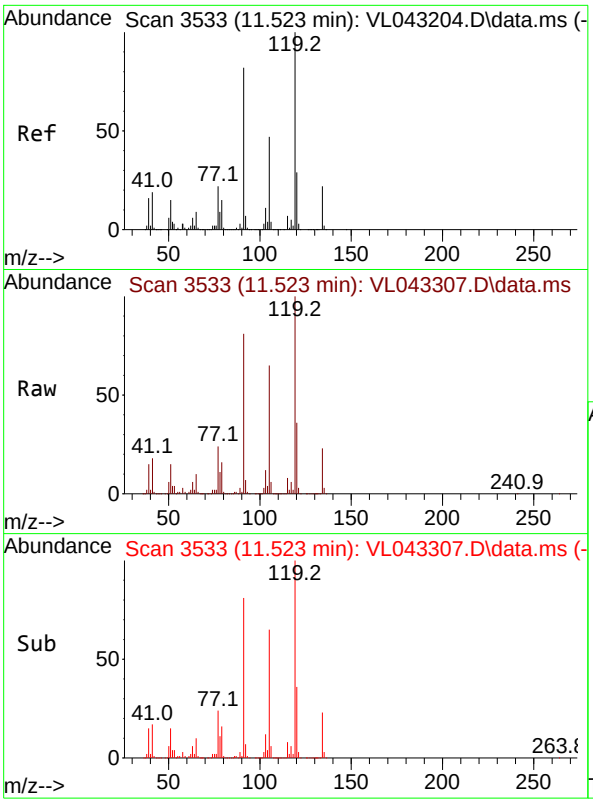


#64
n-propylbenzene
Concen: 11.718 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:120 Resp: 208180

Ion	Ratio	Lower	Upper
120	100		
91	461.2	377.1	565.7



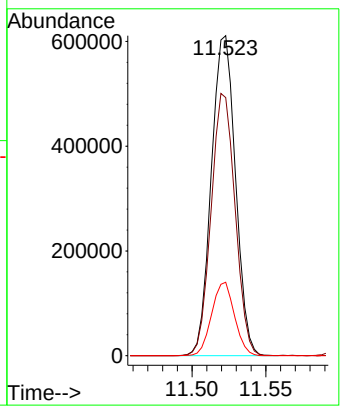


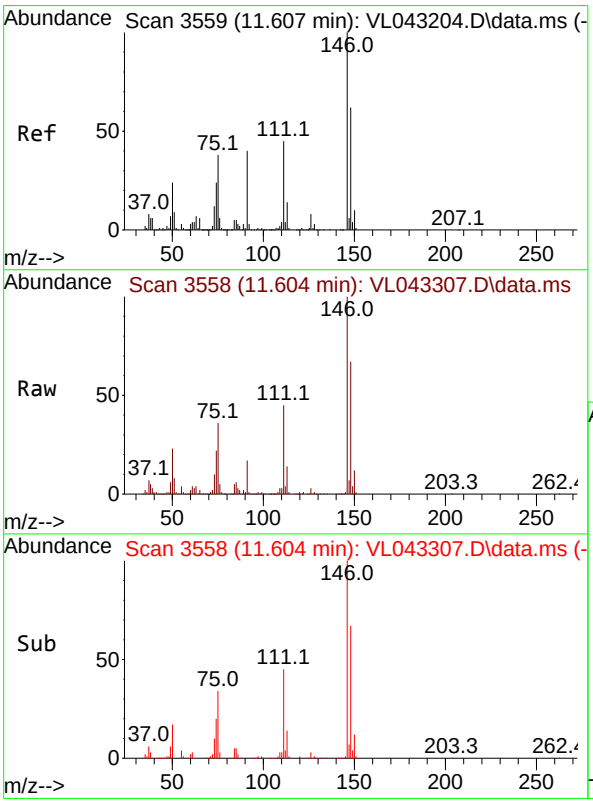
#65
tert-Butylbenzene
Concen: 11.273 ppbv
RT: 11.523 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:119 Resp: 696094

Ion	Ratio	Lower	Upper
119	100		
91	81.5	65.3	97.9
134	21.7	17.0	25.4

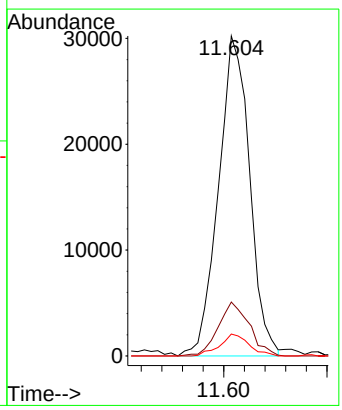


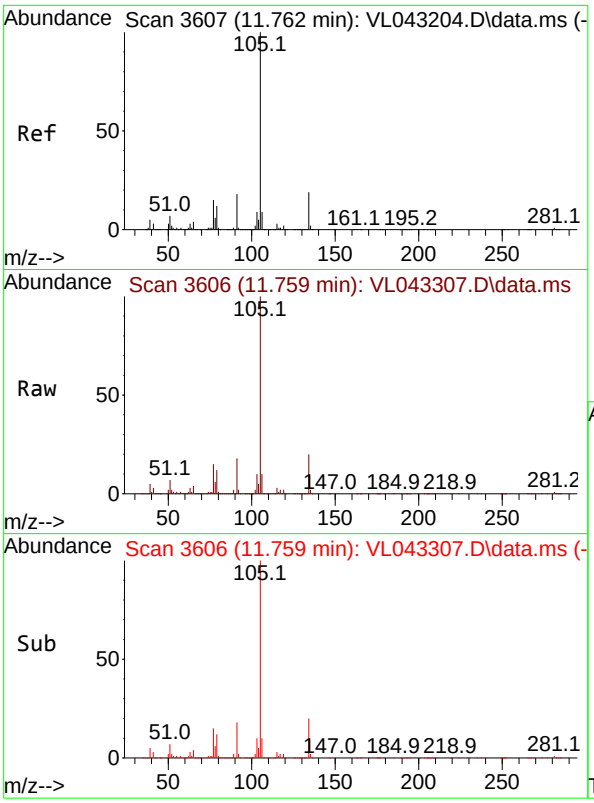


#66
Benzyl Chloride
Concen: 5.049 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 91 Resp: 31638

Ion	Ratio	Lower	Upper
91	100		
126	16.9	14.4	21.6
128	6.4	4.6	6.8



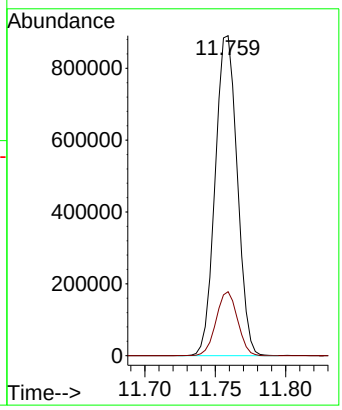


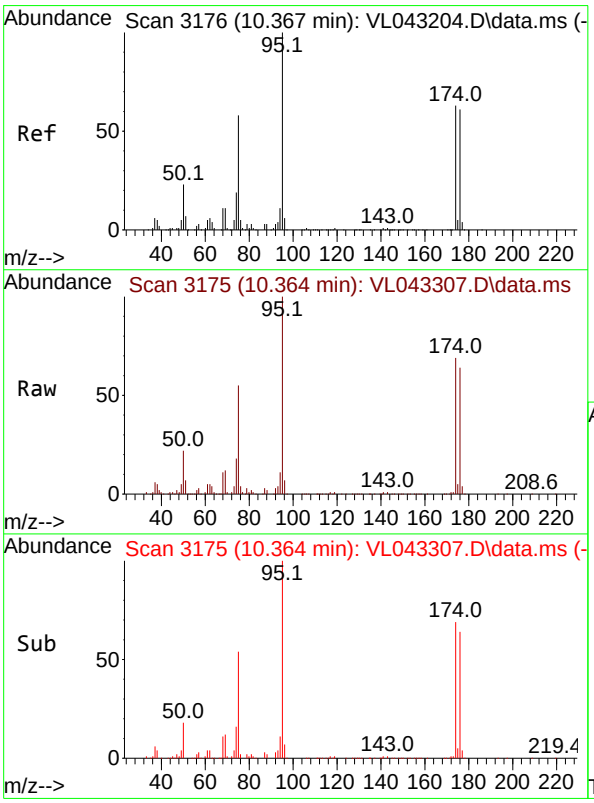
#67
sec-Butylbenzene
Concen: 11.291 ppbv
RT: 11.759 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:105 Resp: 973259

Ion	Ratio	Lower	Upper
105	100		
134	19.4	15.0	22.6

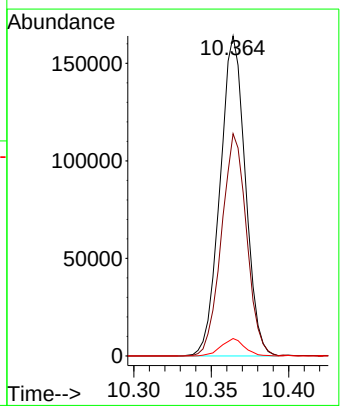


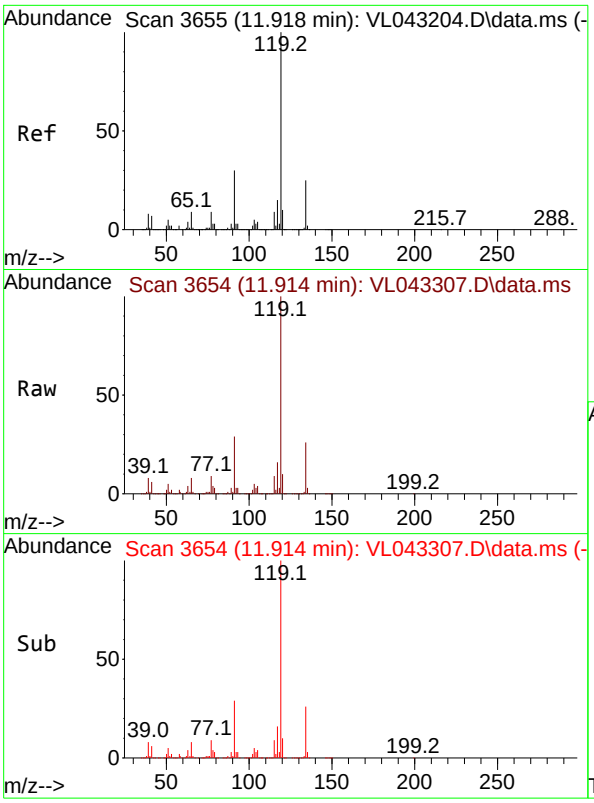


#68
1-Bromo-4-Fluorobenzene
Concen: 10.115 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 95 Resp: 185879

Ion	Ratio	Lower	Upper
95	100		
174	69.2	50.2	75.2
175	5.1	4.1	6.1



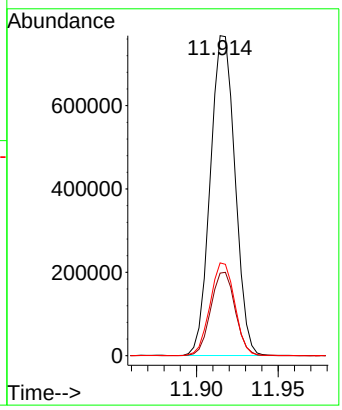


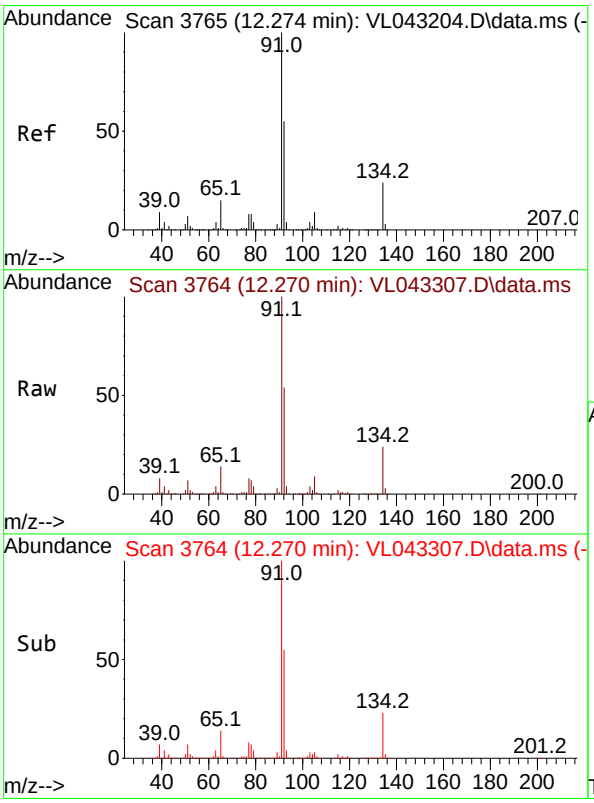
#69
p-Isopropyltoluene
Concen: 11.070 ppbv
RT: 11.914 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:119 Resp: 808286

Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.2	30.2
91	29.1	23.8	35.8

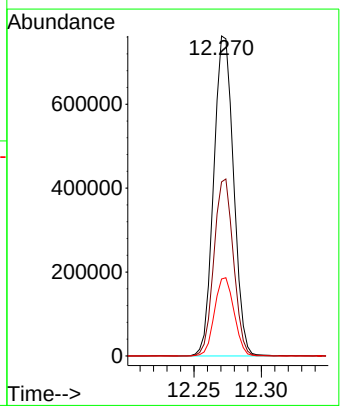


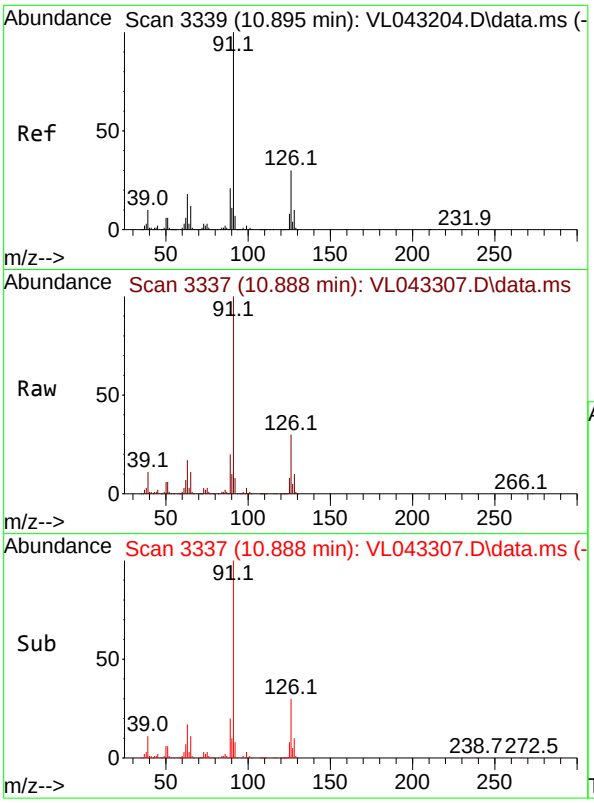


#70
n-Butylbenzene
Concen: 11.019 ppbv
RT: 12.270 min Scan# 3764
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion: 91 Resp: 780553

Ion	Ratio	Lower	Upper
91	100		
92	54.6	43.5	65.3
134	24.1	19.0	28.6



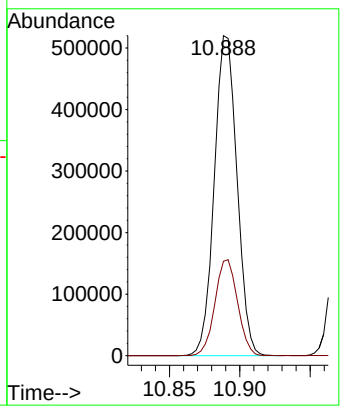


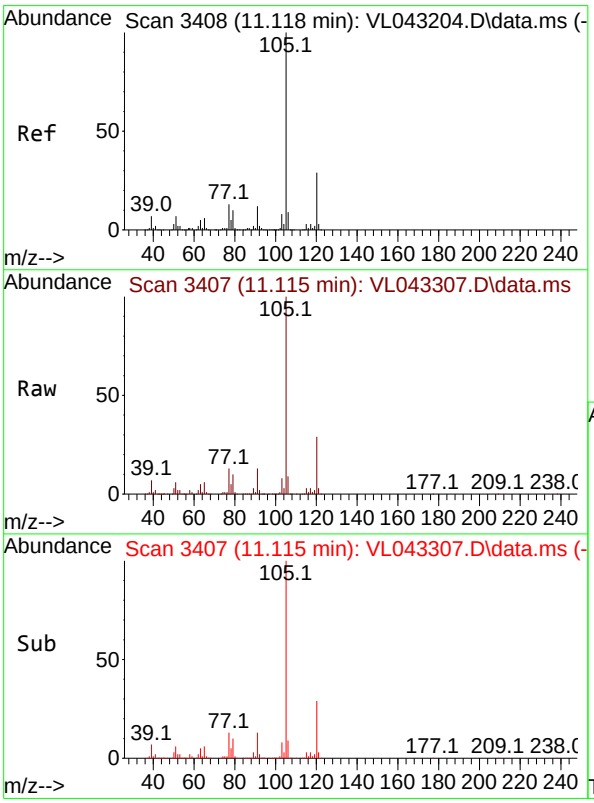
#71
2-Chlorotoluene
Concen: 10.997 ppbv
RT: 10.888 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion: 91 Resp: 584474

Ion	Ratio	Lower	Upper
91	100		
126	30.0	11.7	46.7

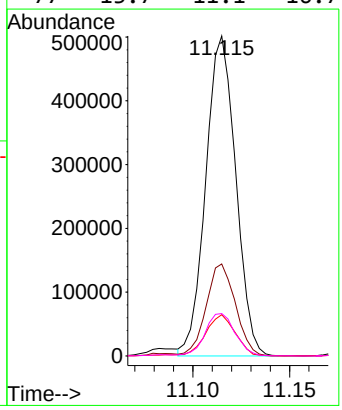


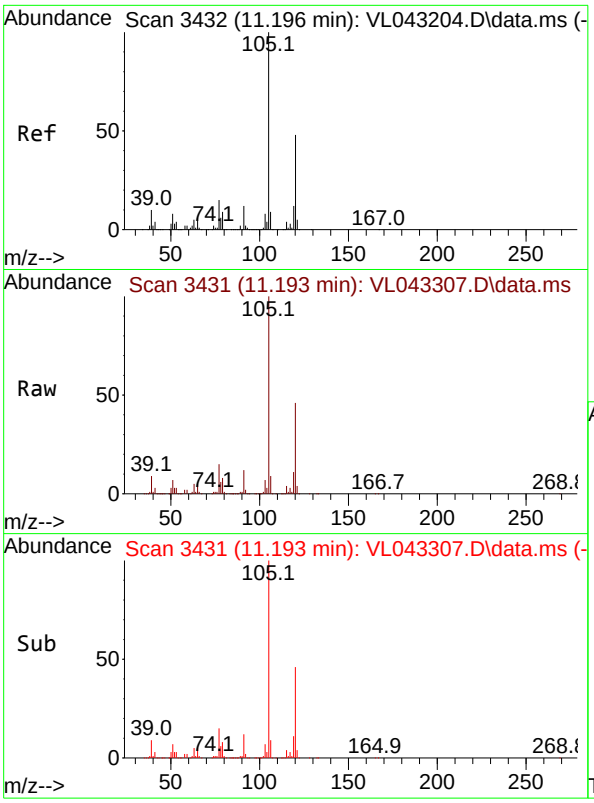


#72
4-Ethyltoluene
Concen: 11.487 ppbv
RT: 11.115 min Scan# 3407
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:105 Resp: 540638

Ion	Ratio	Lower	Upper
105	100		
120	28.8	23.8	35.8
91	12.9	10.3	15.5
77	13.7	11.1	16.7



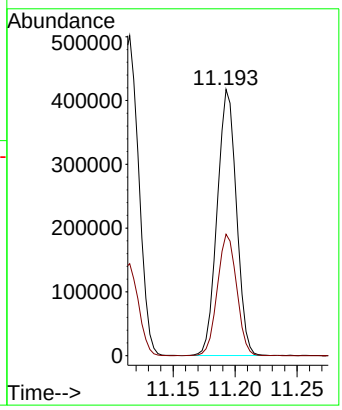


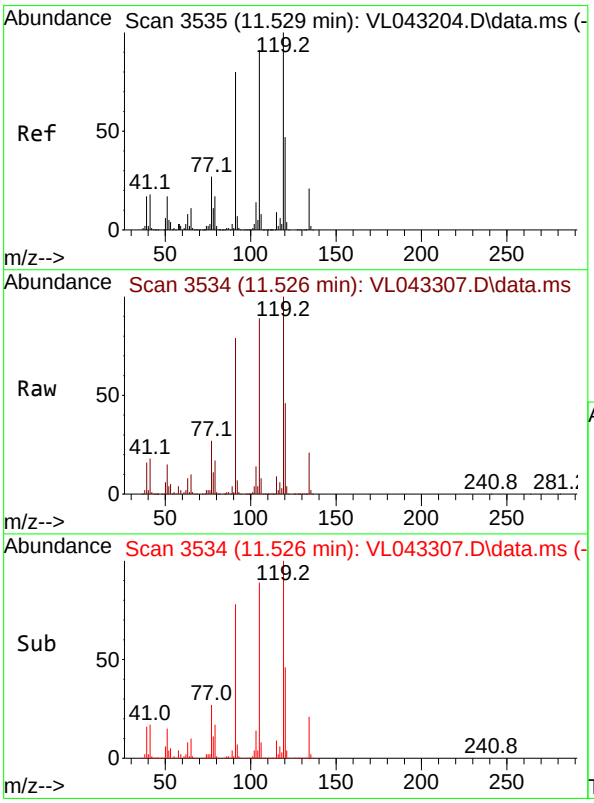
#73
1,3,5-Trimethylbenzene
Concen: 11.424 ppbv
RT: 11.193 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:105 Resp: 451214

Ion	Ratio	Lower	Upper
105	100		
120	45.6	38.6	57.8

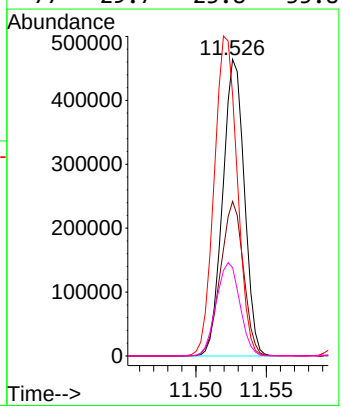


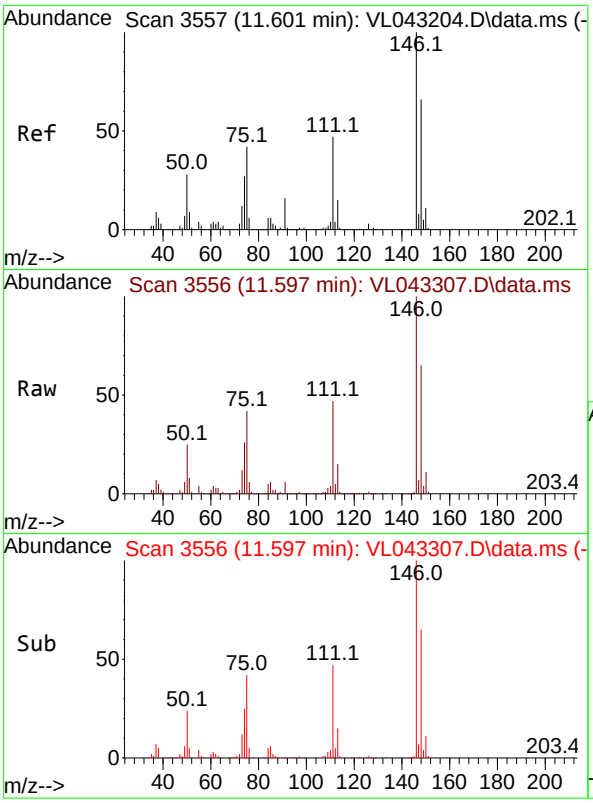


#74
1,2,4-Trimethylbenzene
Concen: 11.530 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:105 Resp: 496984

Ion	Ratio	Lower	Upper
105	100		
120	52.1	41.7	62.5
91	88.0	70.0	105.0
77	29.7	23.8	35.8



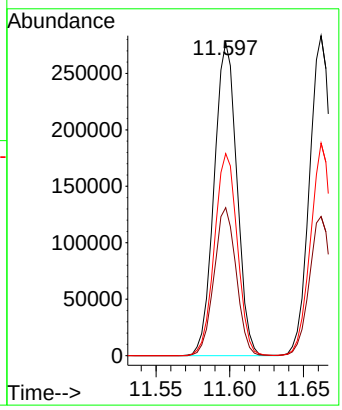


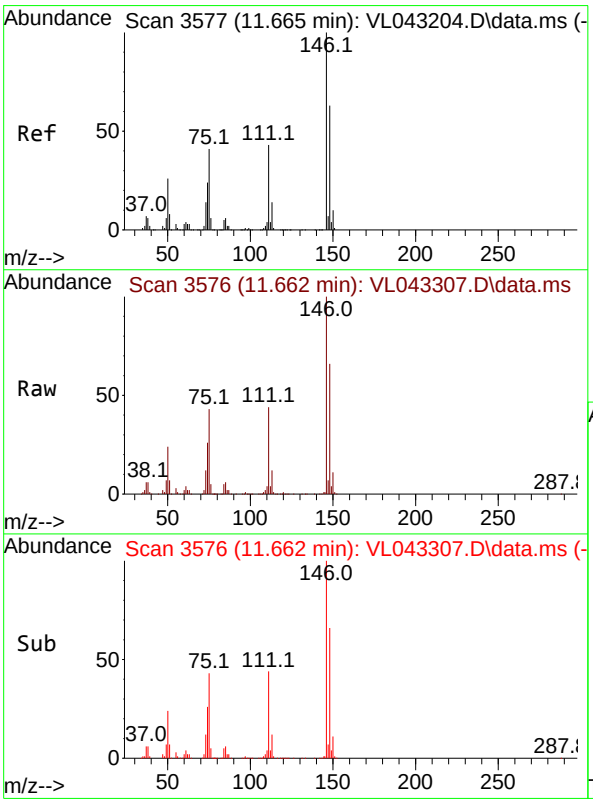
#75
1,3-Dichlorobenzene
Concen: 11.834 ppbv
RT: 11.597 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:146 Resp: 297680

Ion	Ratio	Lower	Upper
146	100		
111	46.0	23.4	70.3
148	64.9	31.6	95.0

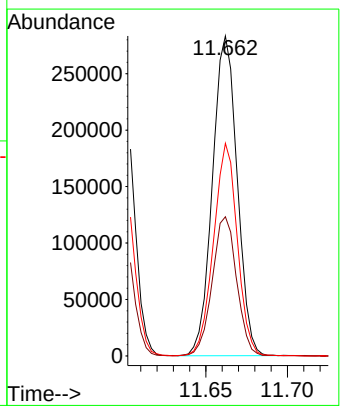


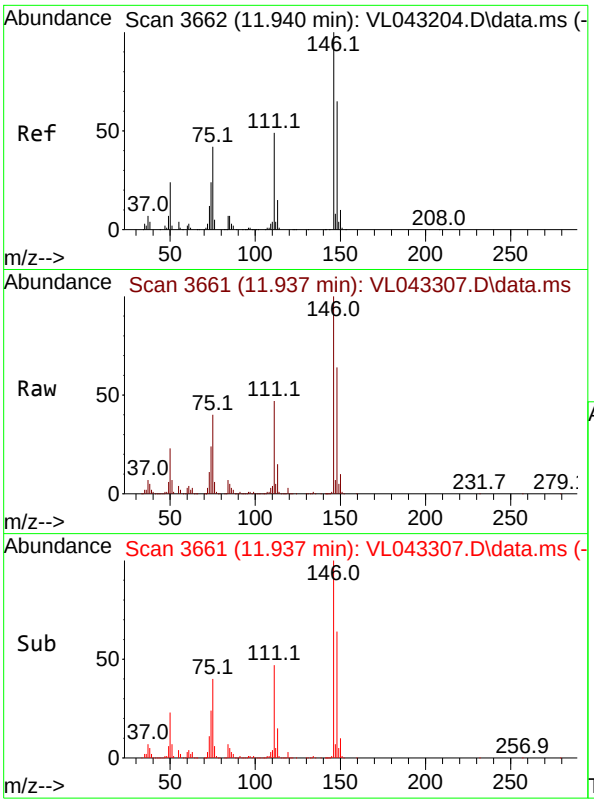


#76
1,4-Dichlorobenzene
Concen: 11.859 ppbv
RT: 11.662 min Scan# 3576
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:146 Resp: 298352

Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.8	68.3
148	64.2	31.8	95.4



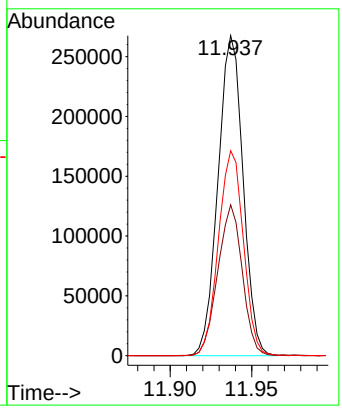


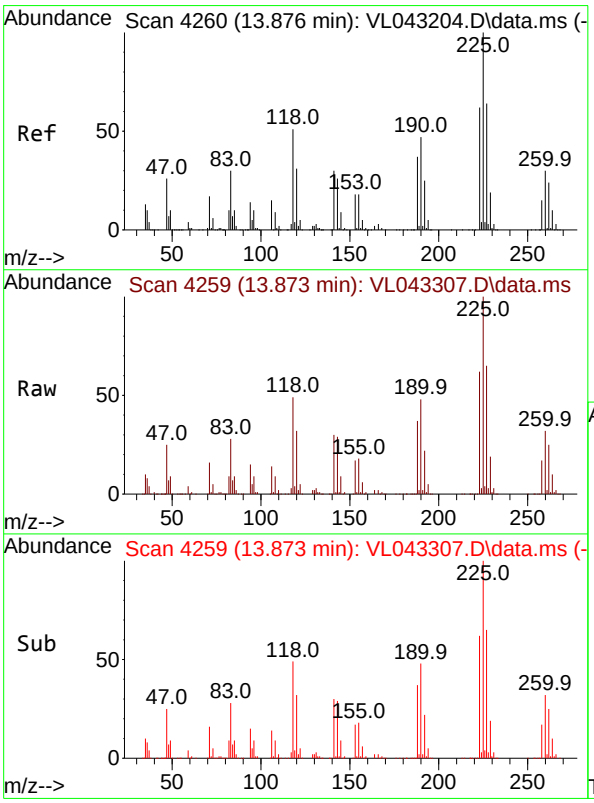
#77
1,2-Dichlorobenzene
Concen: 11.819 ppbv
RT: 11.937 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:146 Resp: 285835

Ion	Ratio	Lower	Upper
146	100		
111	46.1	24.3	73.0
148	63.9	31.6	94.7

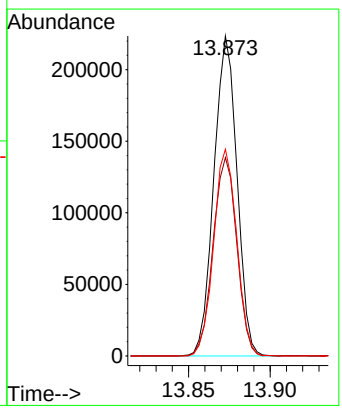


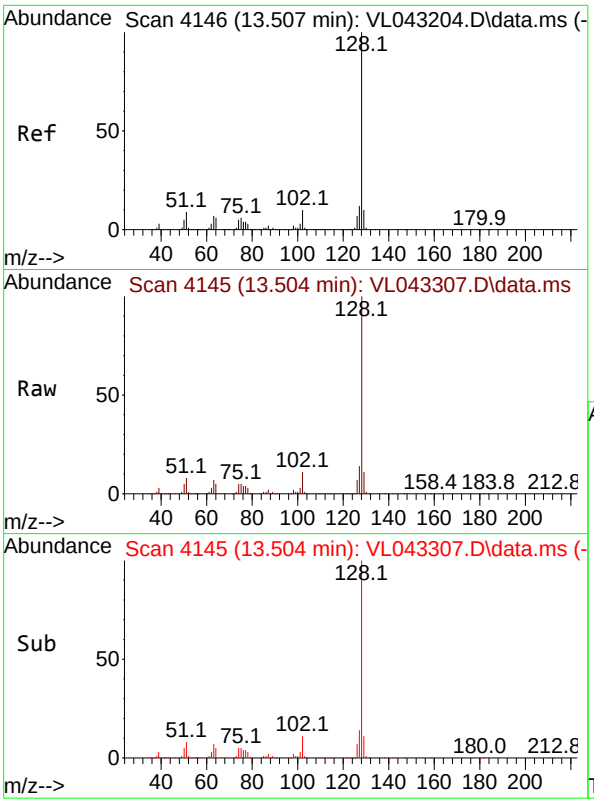


#78
Hexachloro-1,3-Butadiene
Concen: 10.903 ppbv
RT: 13.873 min Scan# 4259
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:225 Resp: 220056

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.2	75.4
227	64.7	51.1	76.7



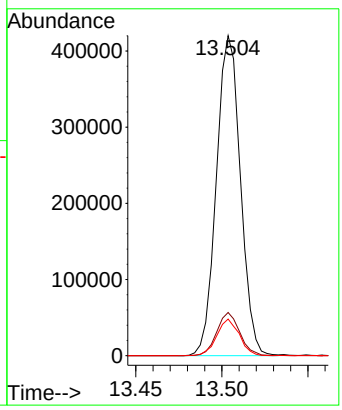


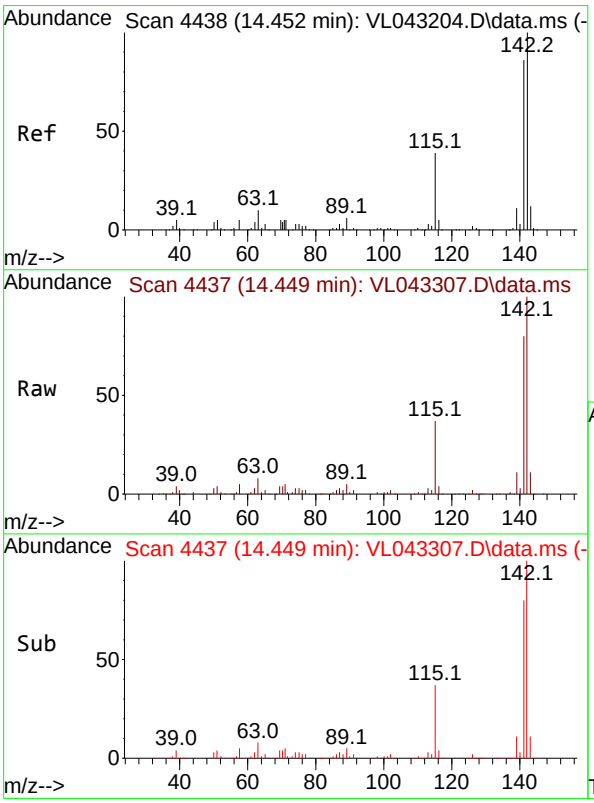
#79
Naphthalene
Concen: 10.692 ppbv
RT: 13.504 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:128 Resp: 409312

Ion	Ratio	Lower	Upper
128	100		
127	13.5	9.9	14.9
129	11.4	8.4	12.6

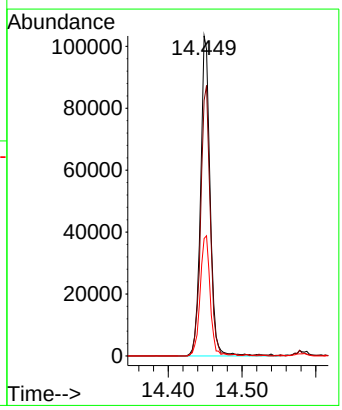


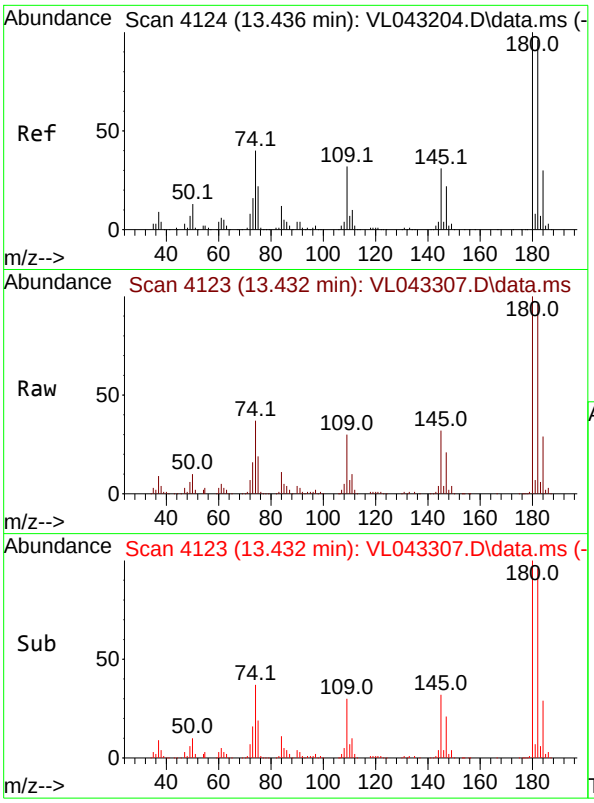


#80
Naphthalene,2-methyl-
Concen: 9.252 ppbv
RT: 14.449 min Scan# 4437
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Tgt Ion:142 Resp: 92975

Ion	Ratio	Lower	Upper
142	100		
141	84.6	67.1	100.7
115	39.8	31.9	47.9



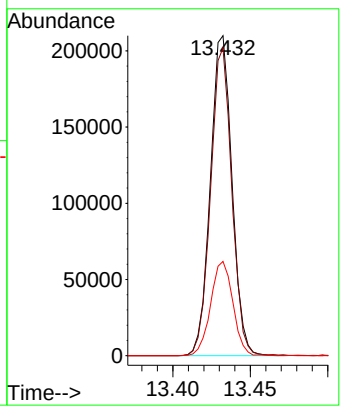


#81
1,2,4-Trichlorobenzene
Concen: 11.915 ppbv
RT: 13.432 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043307.D
Acq: 08 Dec 2025 10:24

Instrument :
MSVOA_L
ClientSampleId :
VL1208ABS01

Tgt Ion:180 Resp: 204005

Ion	Ratio	Lower	Upper
180	100		
182	94.3	77.4	116.2
184	30.3	24.2	36.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043310.D
Acq On : 08 Dec 2025 12:40
Operator : SY/MD
Sample : Q3799-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Quant Time: Dec 09 00:10:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

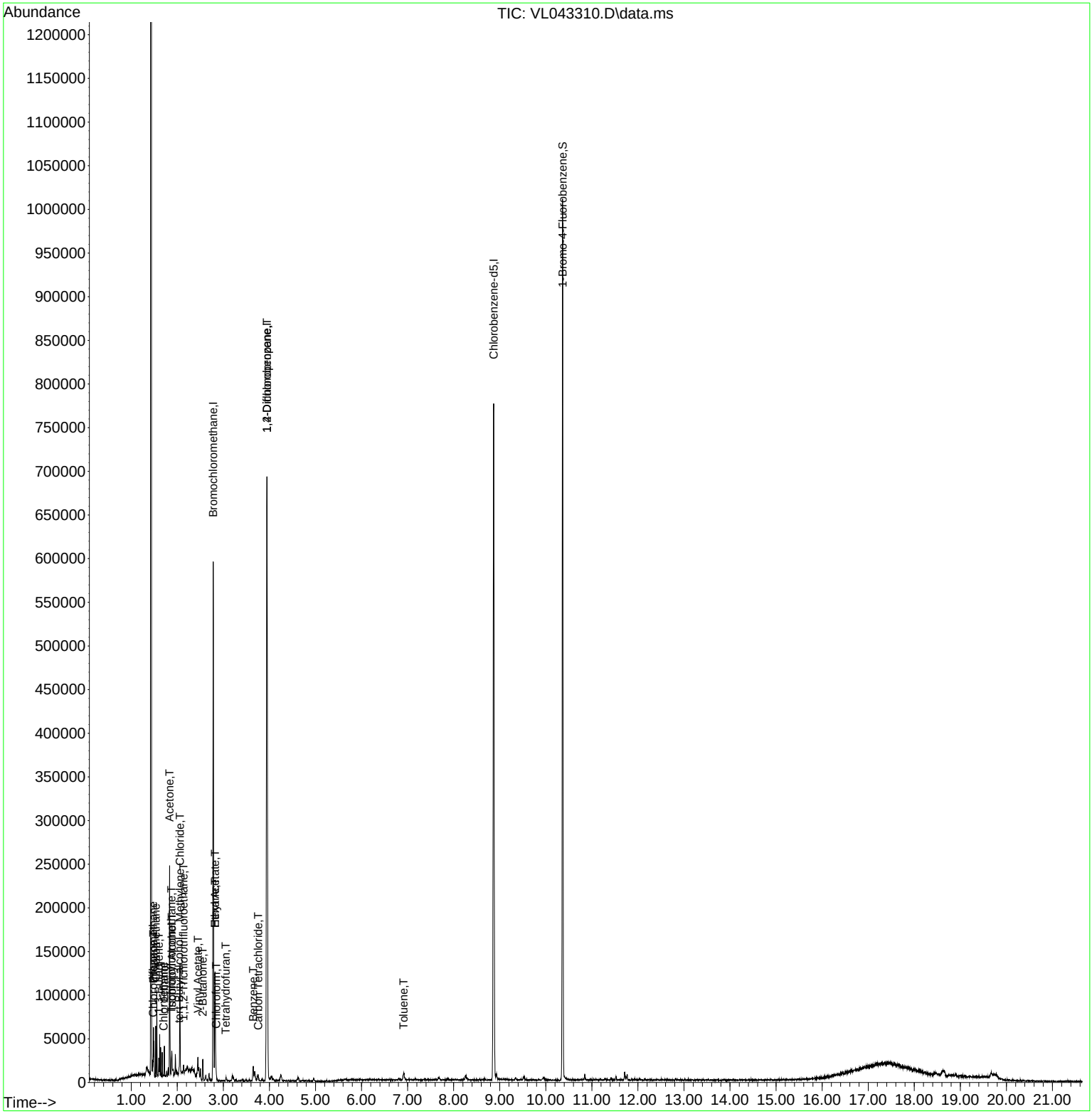
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	151890	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.946	114	389995	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.869	117	311445	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.364	95	233482	10.227	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.300%				
Target Compounds							Qvalue
3) Chlorodifluoromethane	1.473	51	9263	0.440	ppbv	#	83
4) Chloromethane	1.531	50	17448	2.178	ppbv		95
7) Chloroethane	1.703	64	142	0.042	ppbv	#	41
9) Propene	1.483	41	5806	0.649	ppbv	#	1
11) Trichlorofluoromethane	1.874	101	4433	0.214	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.136	101	1181	0.073	ppbv		100
13) Ethanol	1.719	45	11664	3.708	ppbv	#	38
15) Acetone	1.832	43	100928	4.783	ppbv		98
16) 1,3-Butadiene	1.599	39	3163	0.336	ppbv	#	40
17) tert-Butyl alcohol	2.039	59	2939	0.106	ppbv		94
19) Isopropyl Alcohol	1.884	45	9295	0.779	ppbv	#	1
20) Methylene Chloride	2.059	84	18675	2.407	ppbv		89
23) Vinyl Acetate	2.447	43	12208	0.479	ppbv	#	87
25) Ethyl Acetate	2.819	43	19515	0.429	ppbv	#	82
26) Hexane	2.819	57	24551	1.230	ppbv	#	44
29) Chloroform	2.845	83	1625	0.057	ppbv		85
34) 2-Butanone	2.551	43	13762	0.500	ppbv		99
35) Carbon Tetrachloride	3.755	117	1879	0.063	ppbv		100
36) Benzene	3.651	78	3478	0.093	ppbv		96
39) 1,2-Dichloropropane	3.946	63	100423	7.346	ppbv	#	24
41) Tetrahydrofuran	3.052	42	902	0.059	ppbv	#	67
53) Toluene	6.910	91	3785	0.086	ppbv	#	66

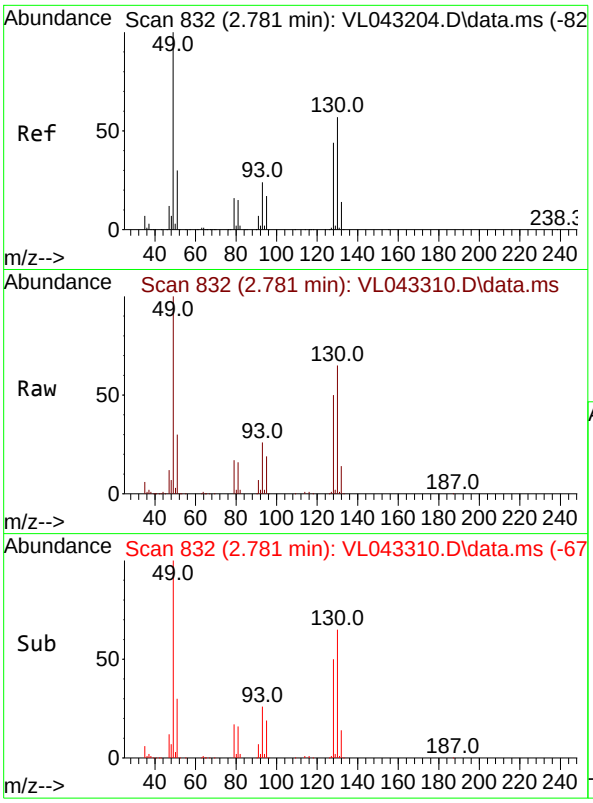
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043310.D
Acq On : 08 Dec 2025 12:40
Operator : SY/MD
Sample : Q3799-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Quant Time: Dec 09 00:10:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



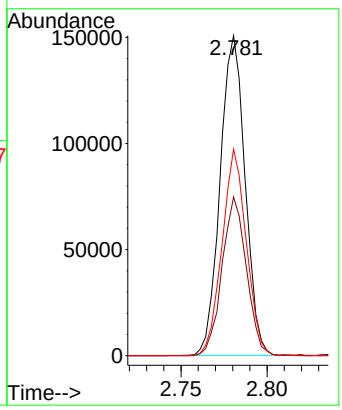


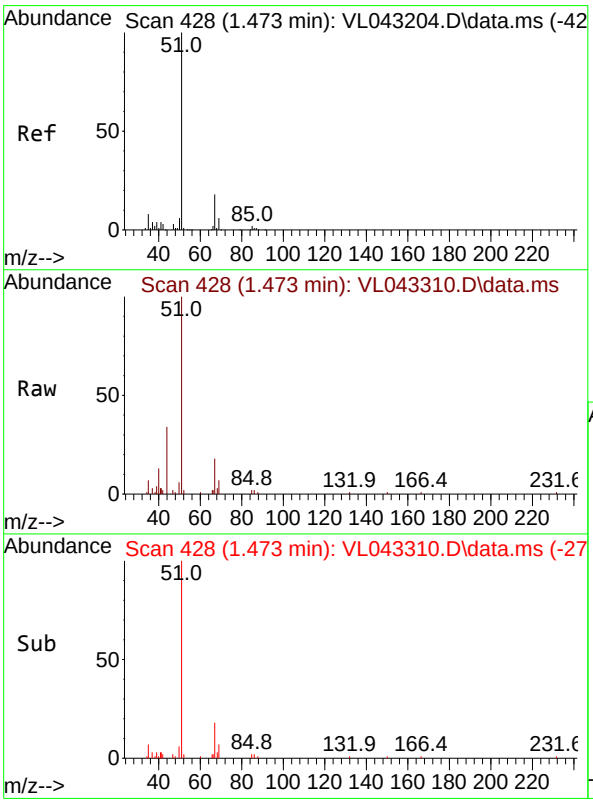
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 49 Resp: 151890

Ion	Ratio	Lower	Upper
49	100		
128	48.5	23.0	69.0
130	62.9	29.9	89.7

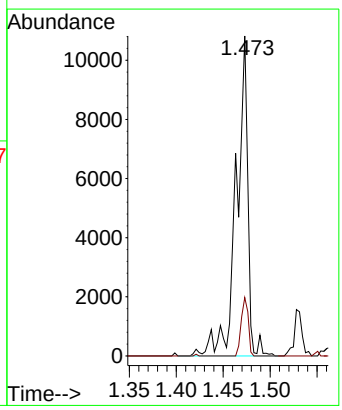


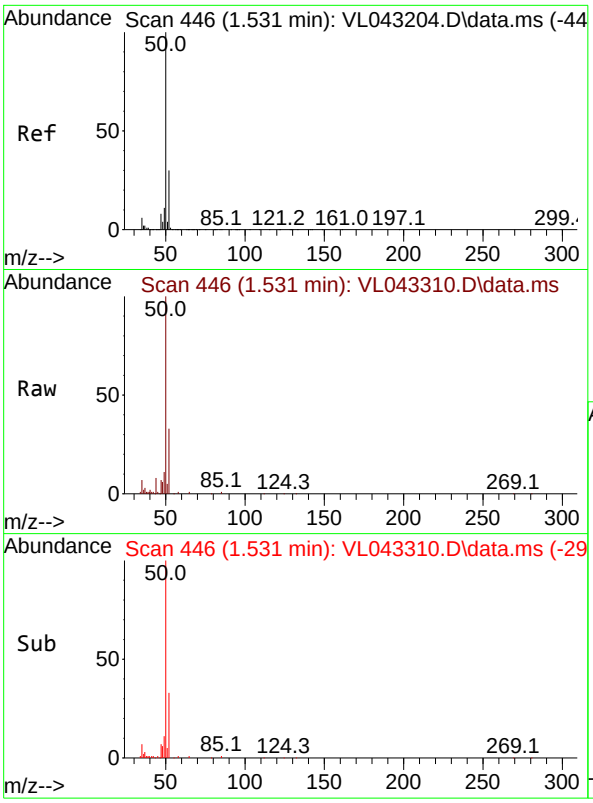


#3
Chlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 51 Resp: 9263

Ion	Ratio	Lower	Upper
51	100		
67	11.1	14.9	22.3#



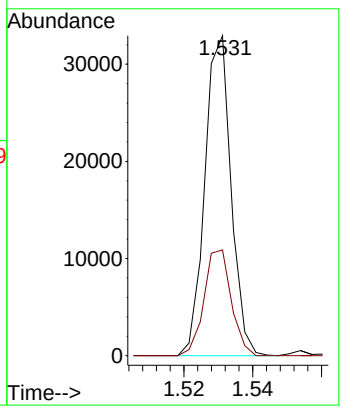


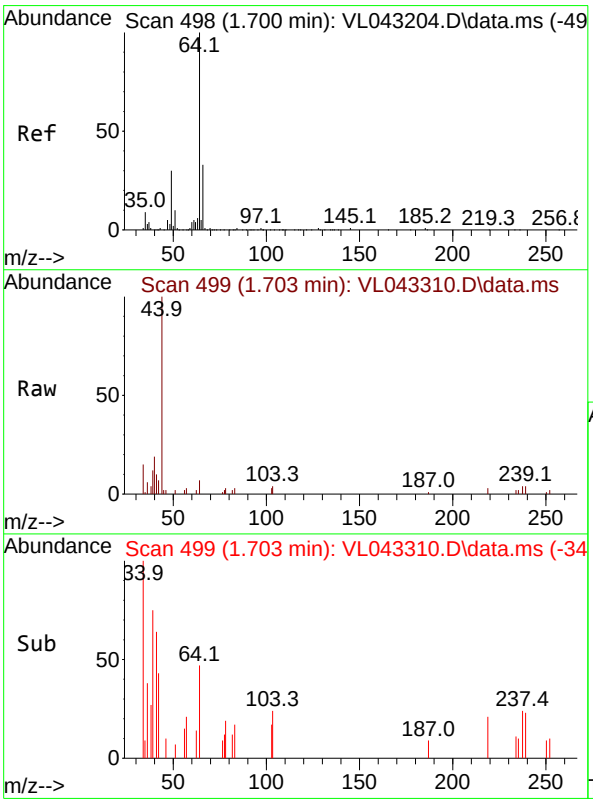
#4
Chloromethane
Concen: 2.178 ppbv
RT: 1.531 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 50 Resp: 17448

Ion	Ratio	Lower	Upper
50	100		
52	33.1	24.1	36.1

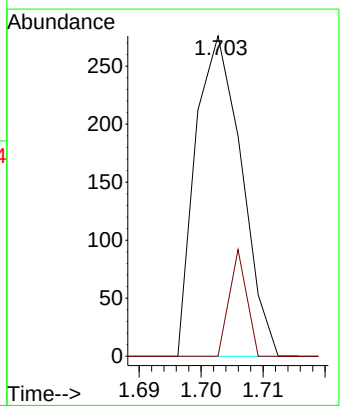


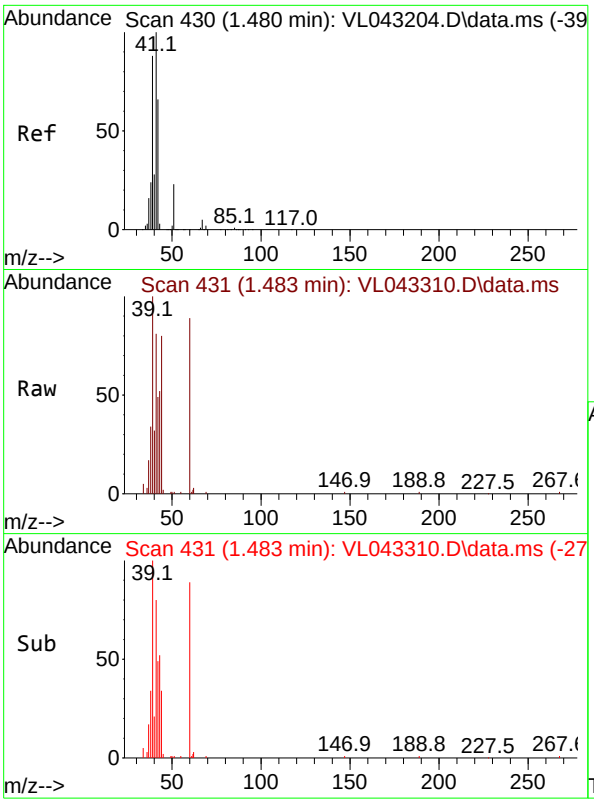


#7
Chloroethane
Concen: 0.042 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 64 Resp: 142

Ion	Ratio	Lower	Upper
64	100		
66	0.0	26.8	40.2#



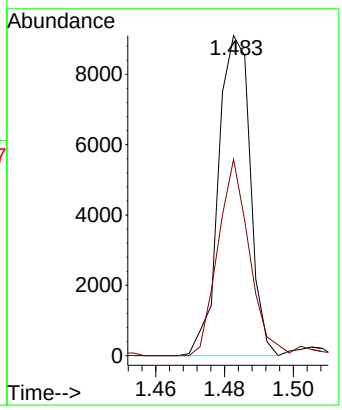


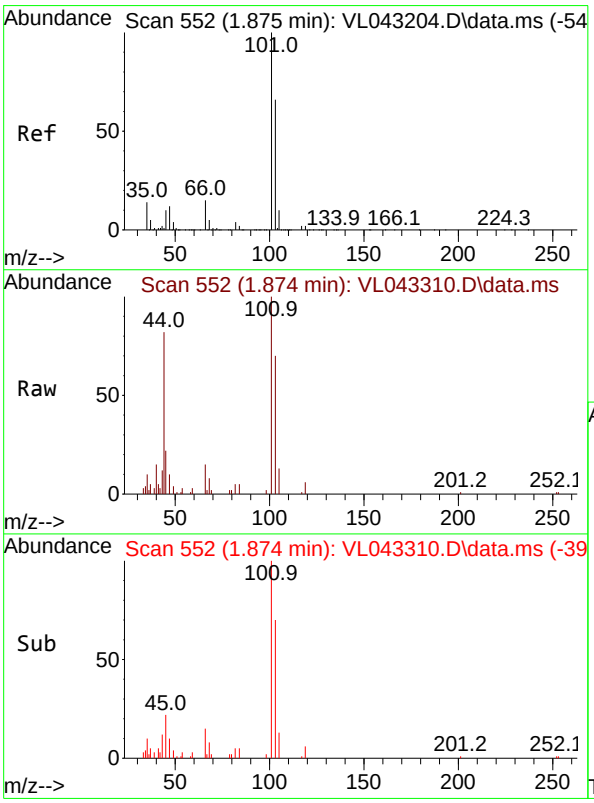
#9
Propene
Concen: 0.649 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 41 Resp: 5806

Ion	Ratio	Lower	Upper
41	100		
42	64.4	3.7	5.5#

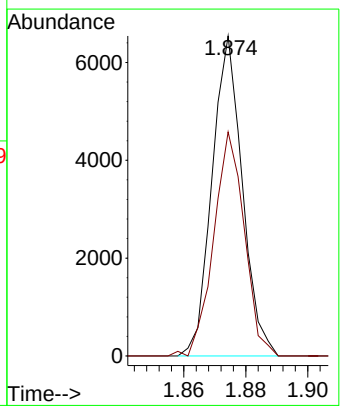


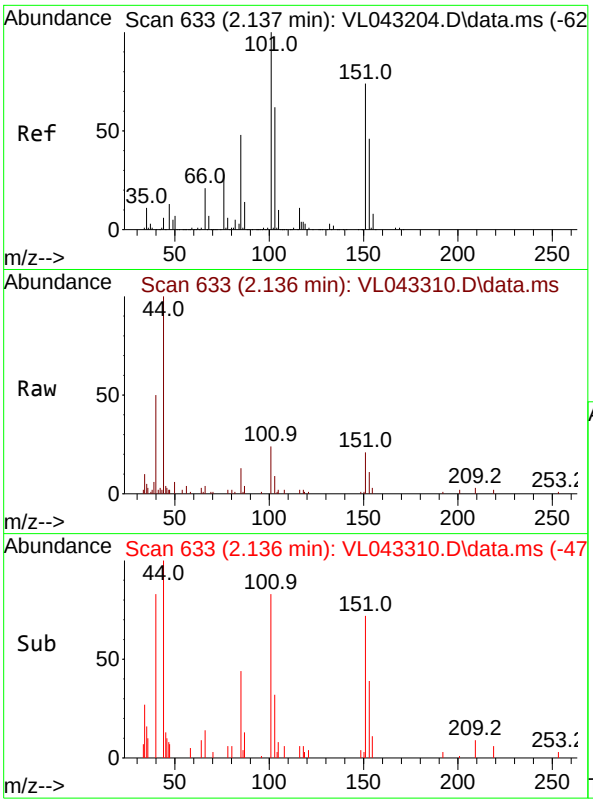


#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion:101 Resp: 4433

Ion	Ratio	Lower	Upper
101	100		
103	70.0	52.6	79.0



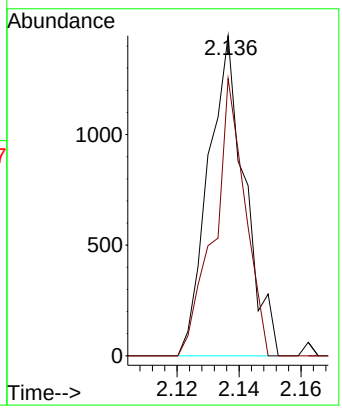


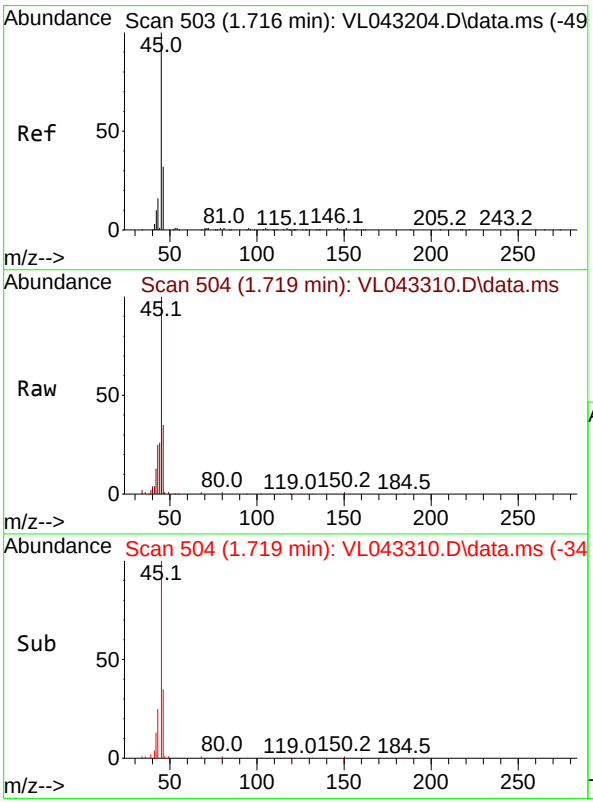
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.073 ppbv
RT: 2.136 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion:101 Resp: 1181

Ion	Ratio	Lower	Upper
101	100		
151	73.8	59.2	88.8

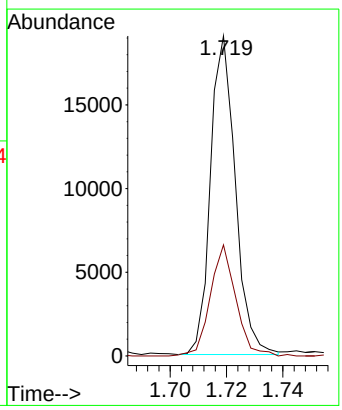


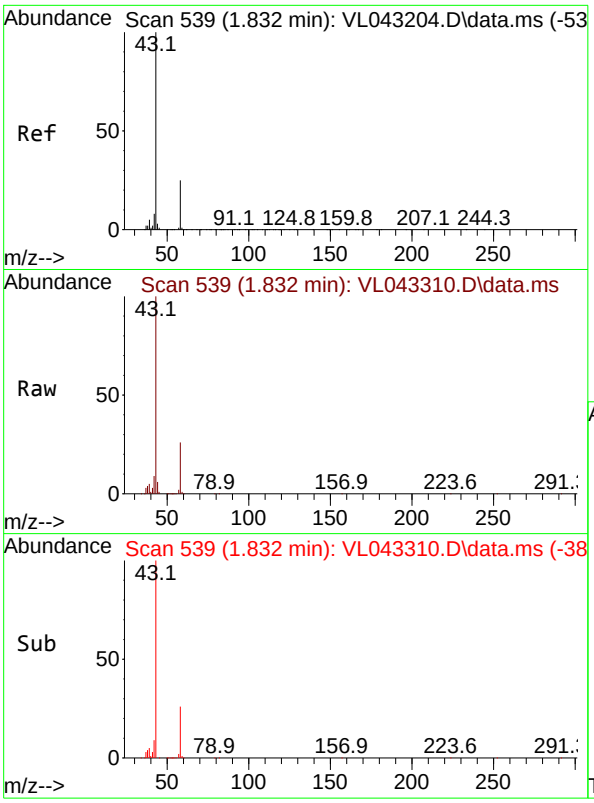


#13
Ethanol
Concen: 3.708 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 45 Resp: 11664

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.0	59.8#



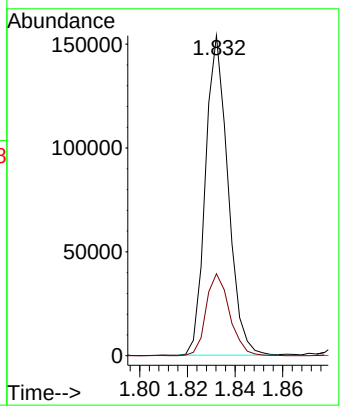


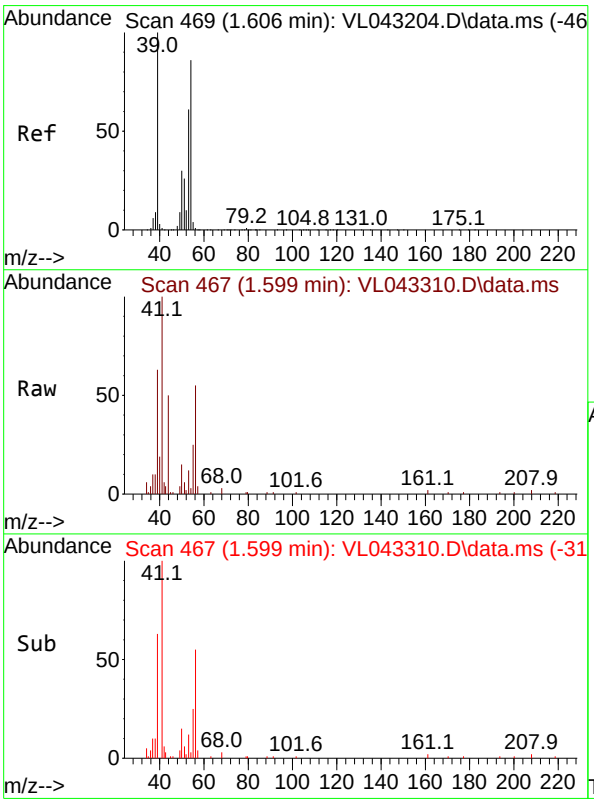
#15
Acetone
Concen: 4.783 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 43 Resp: 100928

Ion	Ratio	Lower	Upper
43	100		
58	26.8	20.7	31.1

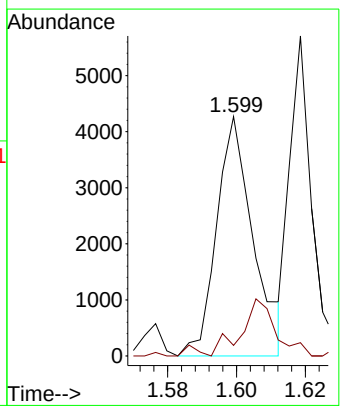


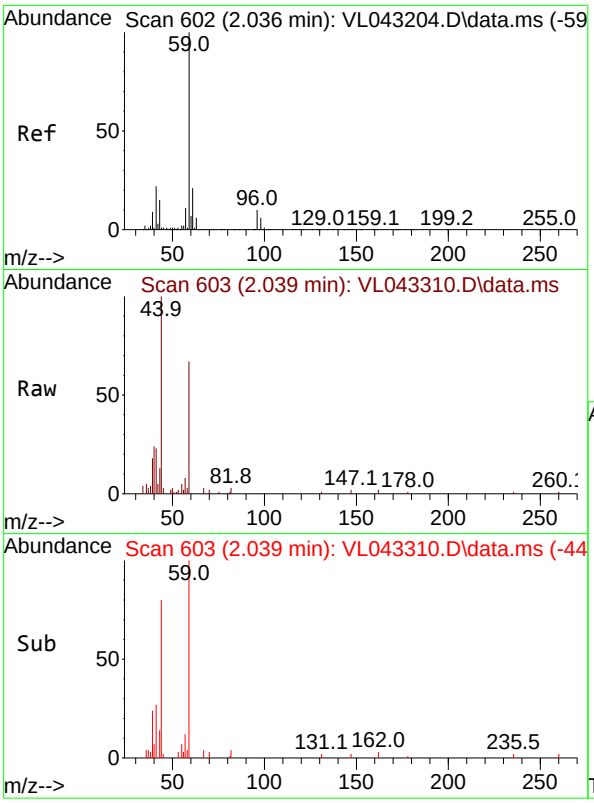


#16
1,3-Butadiene
Concen: 0.336 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 39 Resp: 3163

Ion	Ratio	Lower	Upper
39	100		
54	23.6	59.4	89.2#



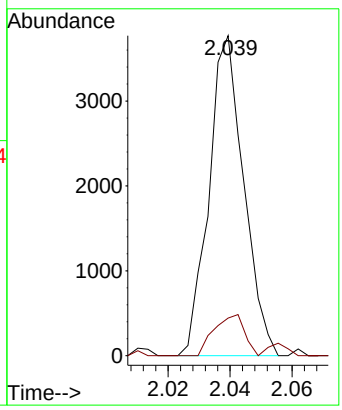


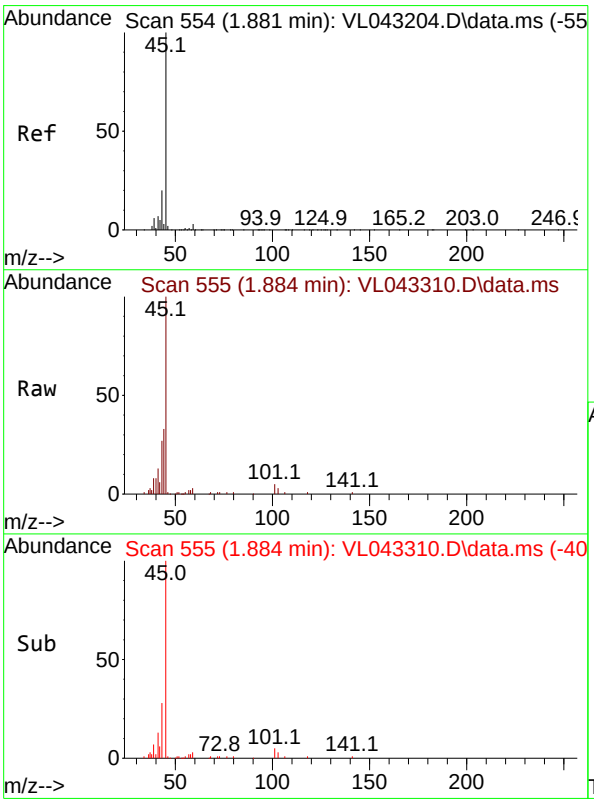
#17
tert-Butyl alcohol
Concen: 0.106 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 59 Resp: 2939

Ion	Ratio	Lower	Upper
59	100		
57	13.4	9.0	13.4

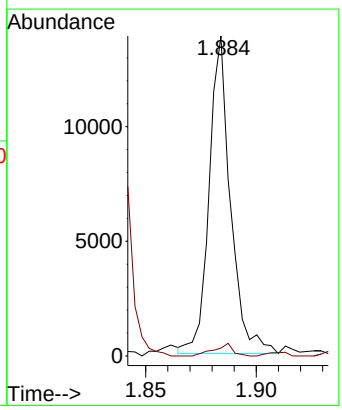


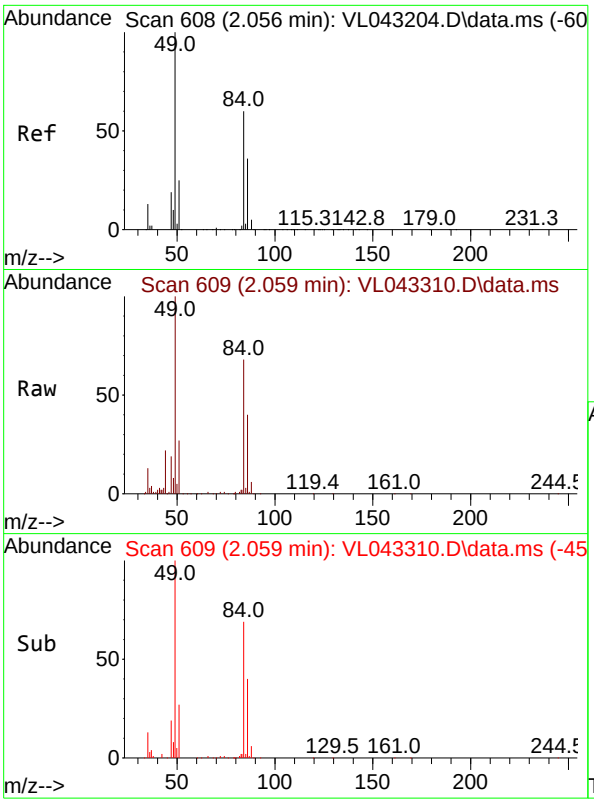


#19
Isopropyl Alcohol
Concen: 0.779 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 45 Resp: 9295

Ion	Ratio	Lower	Upper
45	100		
58	291.0	31.3	46.9#



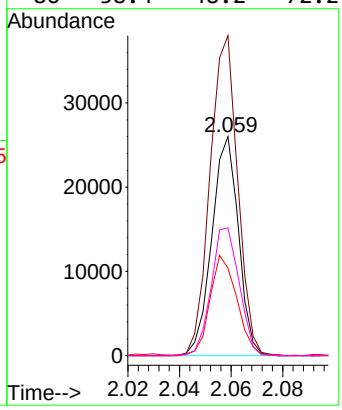


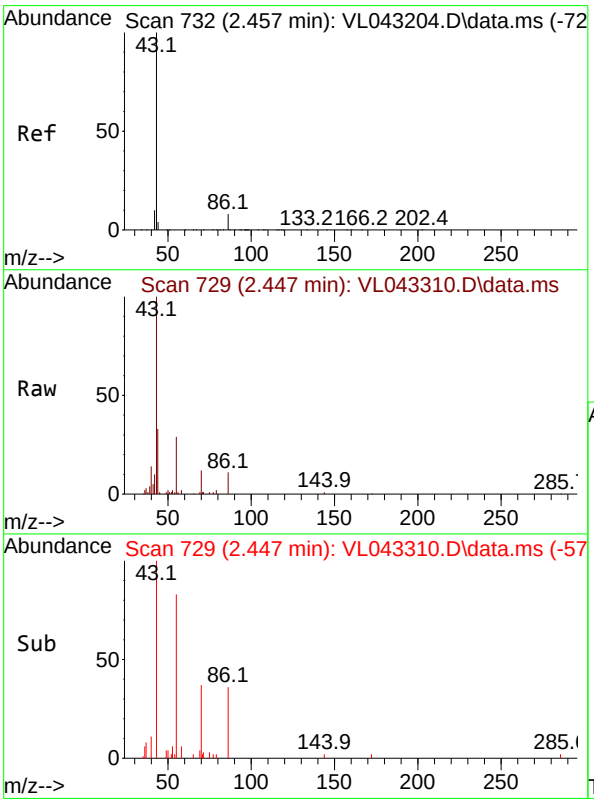
#20
Methylene Chloride
Concen: 2.407 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 84 Resp: 18675

Ion	Ratio	Lower	Upper
84	100		
49	146.1	132.9	199.3
51	39.7	34.8	52.2
86	58.4	48.2	72.2

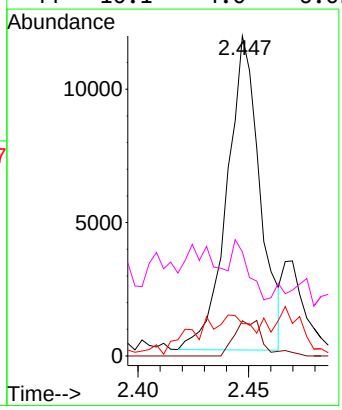


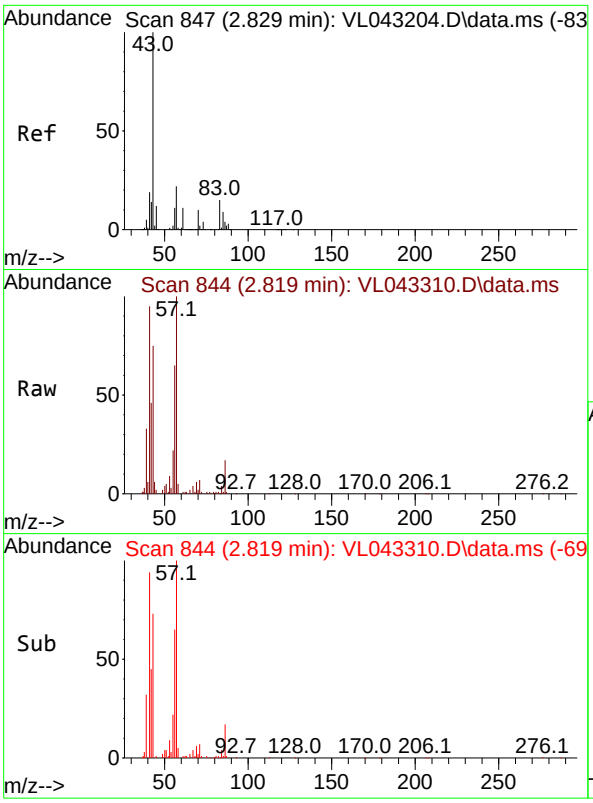


#23
Vinyl Acetate
Concen: 0.479 ppbv
RT: 2.447 min Scan# 729
Delta R.T. -0.010 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 43 Resp: 12208

Ion	Ratio	Lower	Upper
43	100		
86	11.2	6.2	9.2#
42	5.1	8.0	12.0#
44	10.1	4.0	6.0#



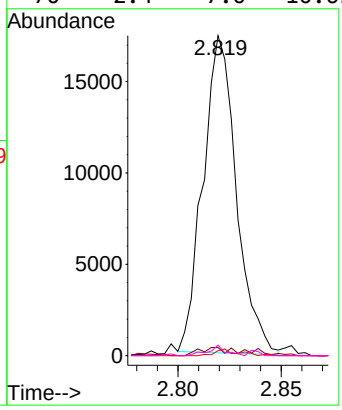


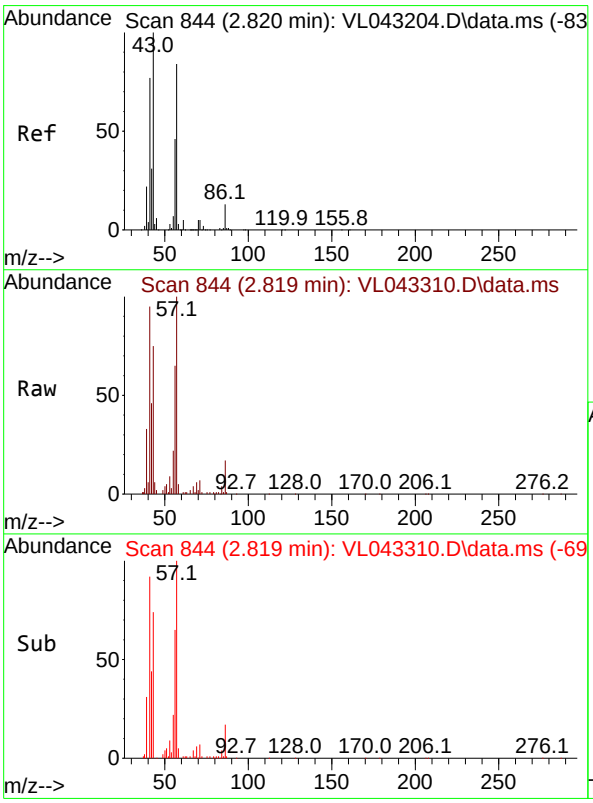
#25
Ethyl Acetate
Concen: 0.429 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 43 Resp: 19515

Ion	Ratio	Lower	Upper
43	100		
45	3.6	8.1	12.1#
61	1.5	7.0	10.4#
70	2.4	7.0	10.6#

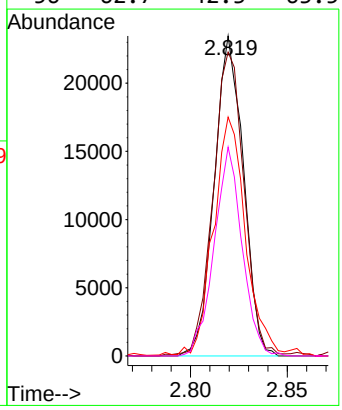


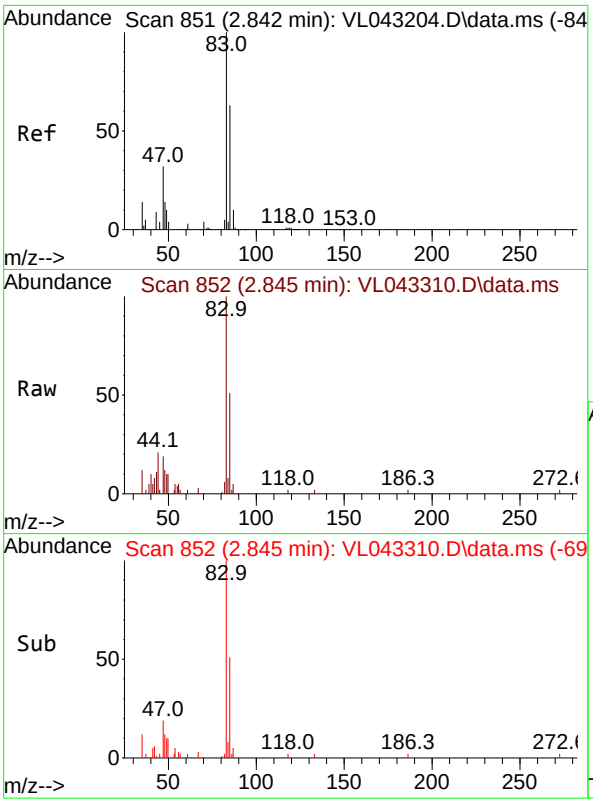


#26
Hexane
Concen: 1.230 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 57 Resp: 24551

Ion	Ratio	Lower	Upper
57	100		
41	101.6	74.6	111.8
43	83.3	179.0	268.4#
56	62.7	42.3	63.5



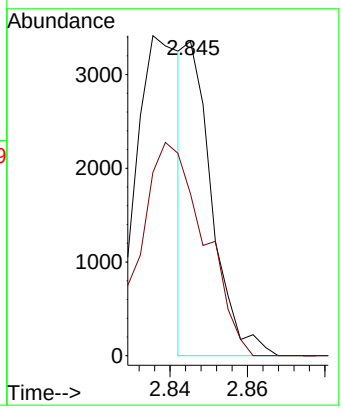


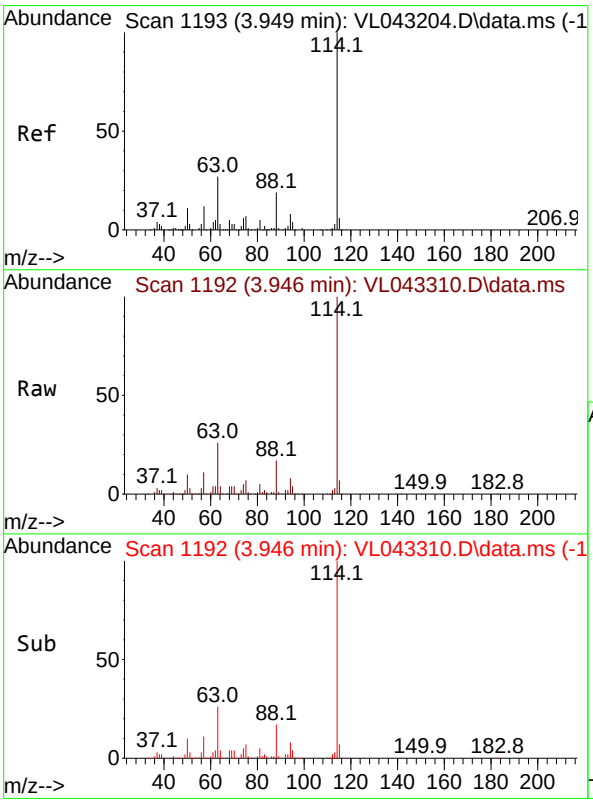
#29
Chloroform
Concen: 0.057 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 83 Resp: 1625

Ion	Ratio	Lower	Upper
83	100		
85	51.5	50.5	75.7

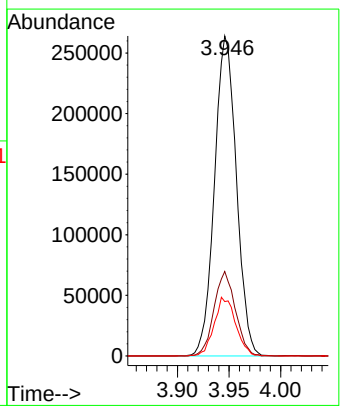


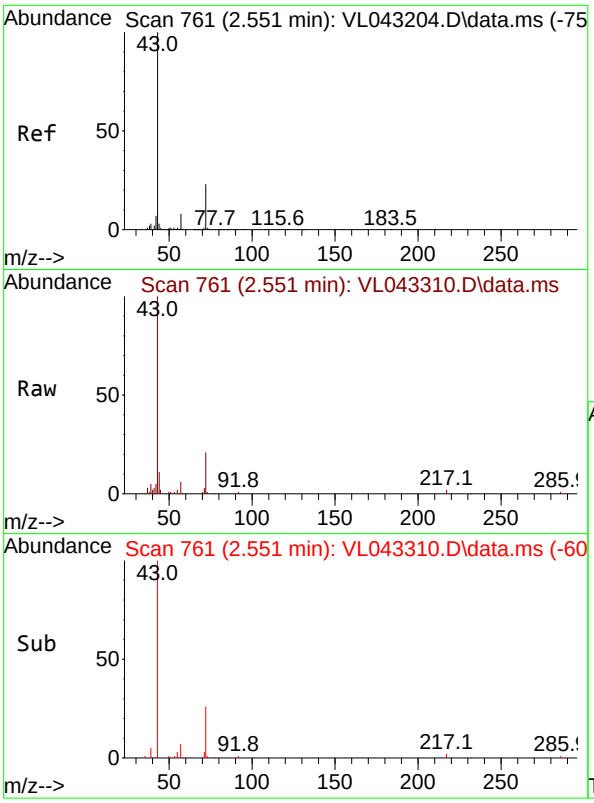


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion:114 Resp: 389995

Ion	Ratio	Lower	Upper
114	100		
63	25.9	21.0	31.6
88	18.0	14.9	22.3



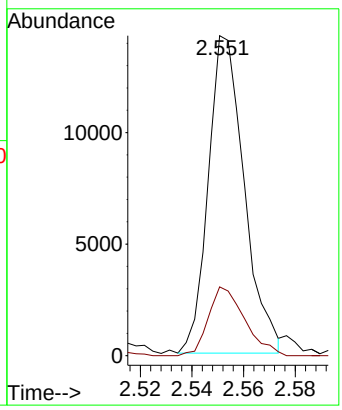


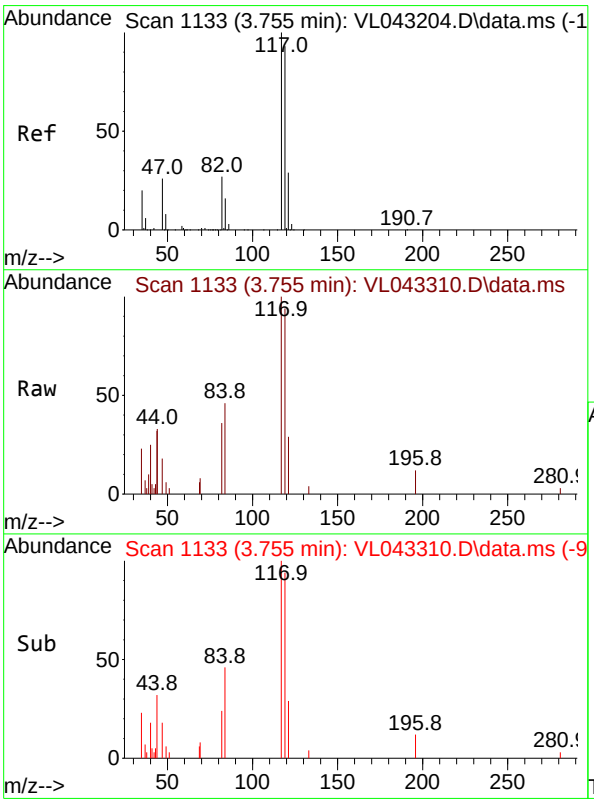
#34
2-Butanone
Concen: 0.500 ppbv
RT: 2.551 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 43 Resp: 13762

Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.1	27.1

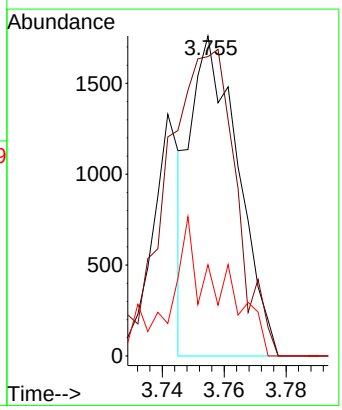


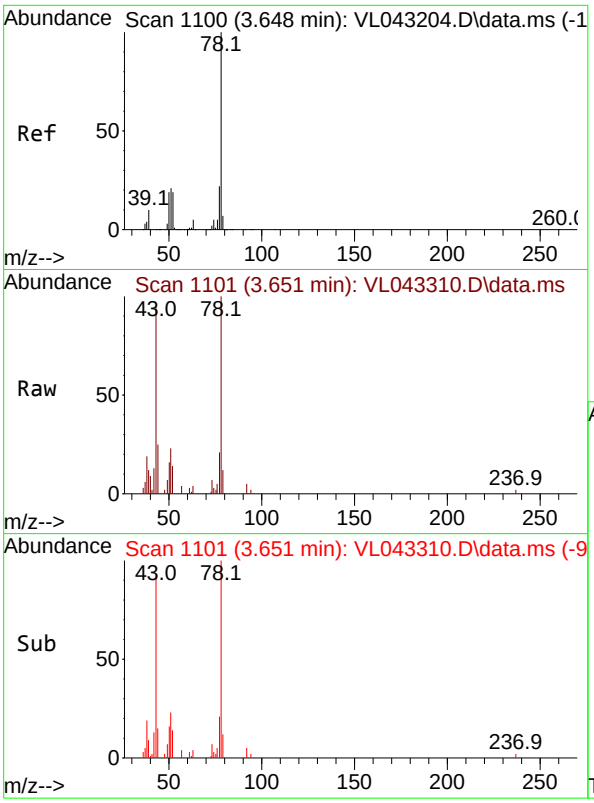


#35
Carbon Tetrachloride
Concen: 0.063 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion:117 Resp: 1879

Ion	Ratio	Lower	Upper
117	100		
119	93.5	74.6	112.0
121	28.5	23.2	34.8



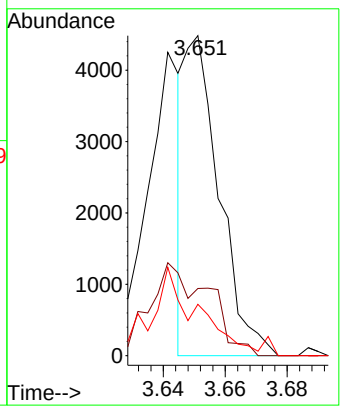


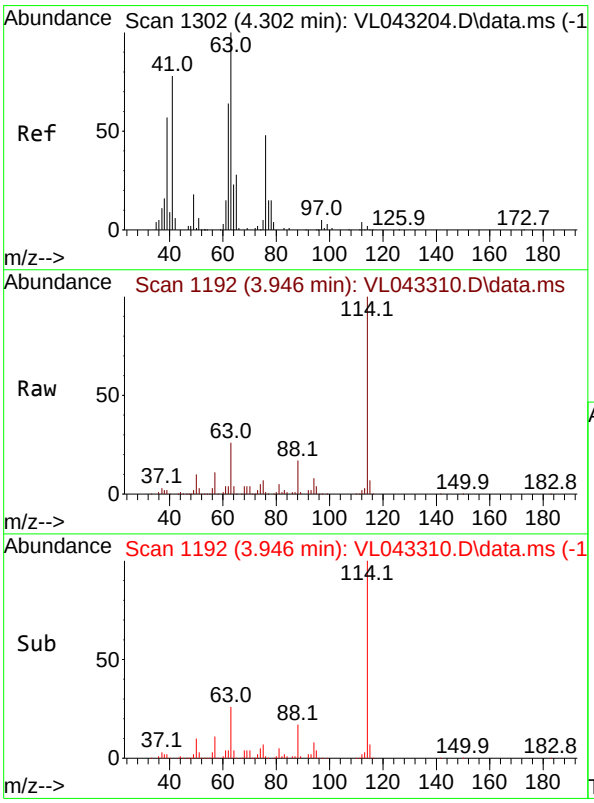
#36
Benzene
Concen: 0.093 ppbv
RT: 3.651 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 78 Resp: 3478

Ion	Ratio	Lower	Upper
78	100		
77	21.0	17.5	26.3
50	16.0	15.5	23.3

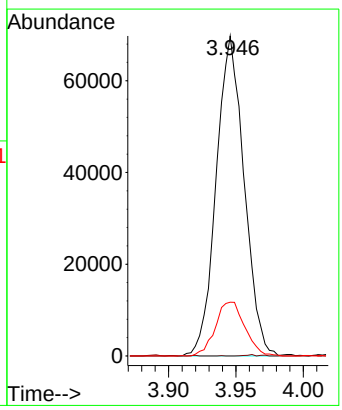


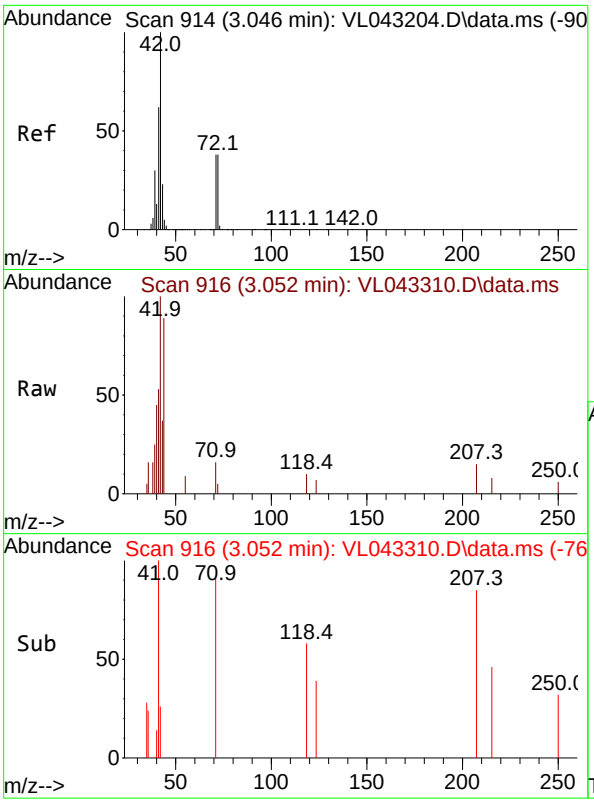


#39
1,2-Dichloropropane
Concen: 7.346 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.356 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 63 Resp: 100423

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.6	93.8#
62	16.8	51.0	76.6#



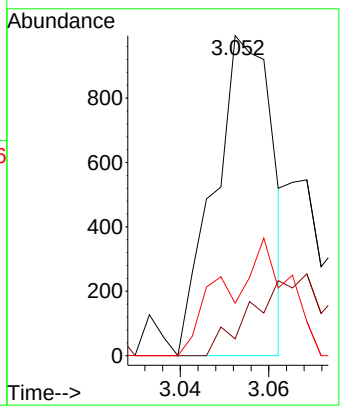


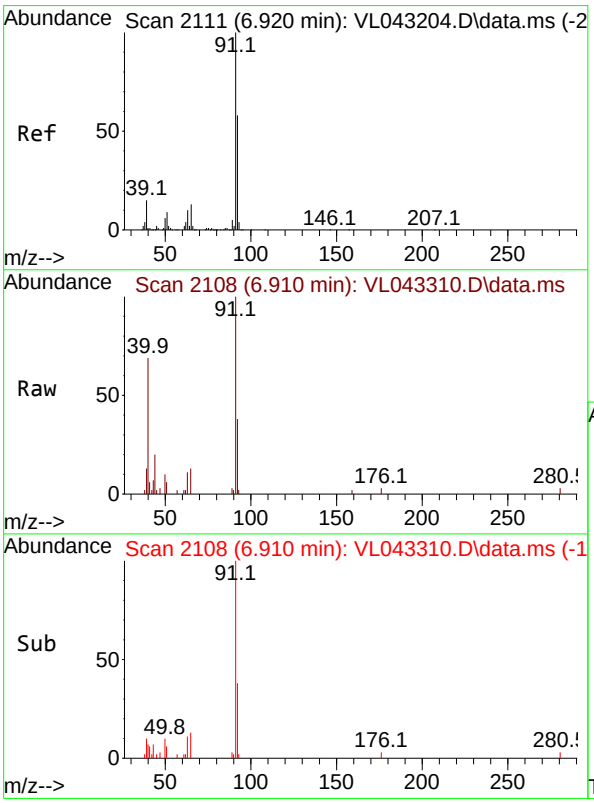
#41
Tetrahydrofuran
Concen: 0.059 ppbv
RT: 3.052 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 42 Resp: 902

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.6	46.0#
71	39.9	30.5	45.7

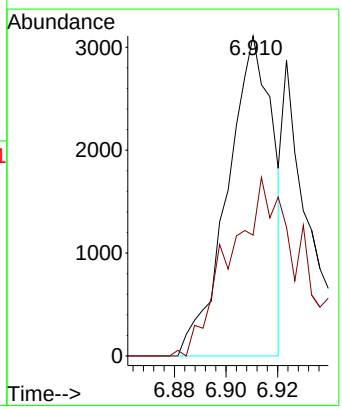


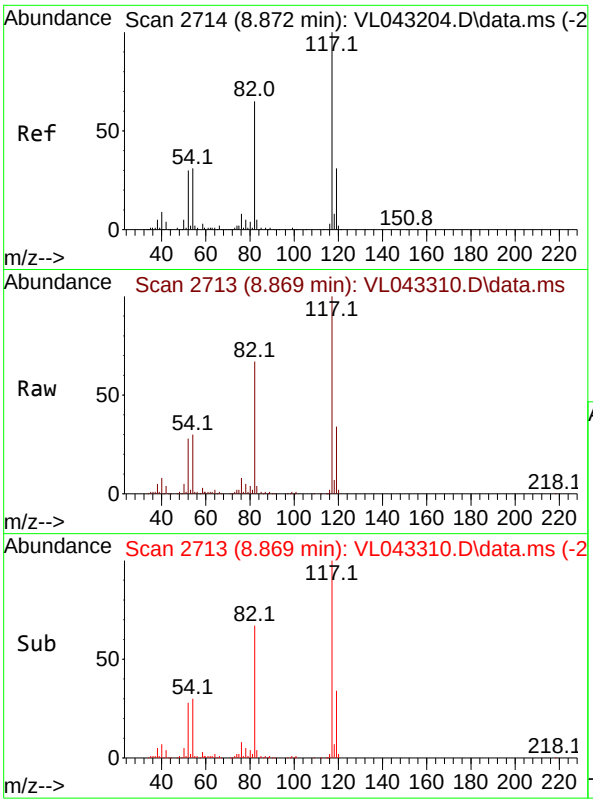


#53
Toluene
Concen: 0.086 ppbv
RT: 6.910 min Scan# 2108
Delta R.T. -0.010 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 91 Resp: 3785

Ion	Ratio	Lower	Upper
91	100		
92	84.9	47.4	71.0#



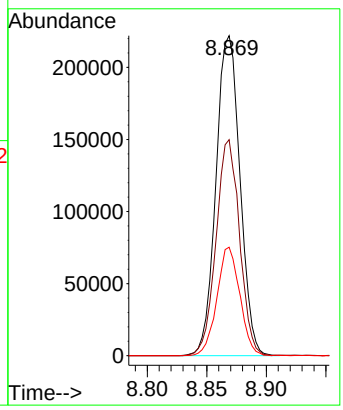


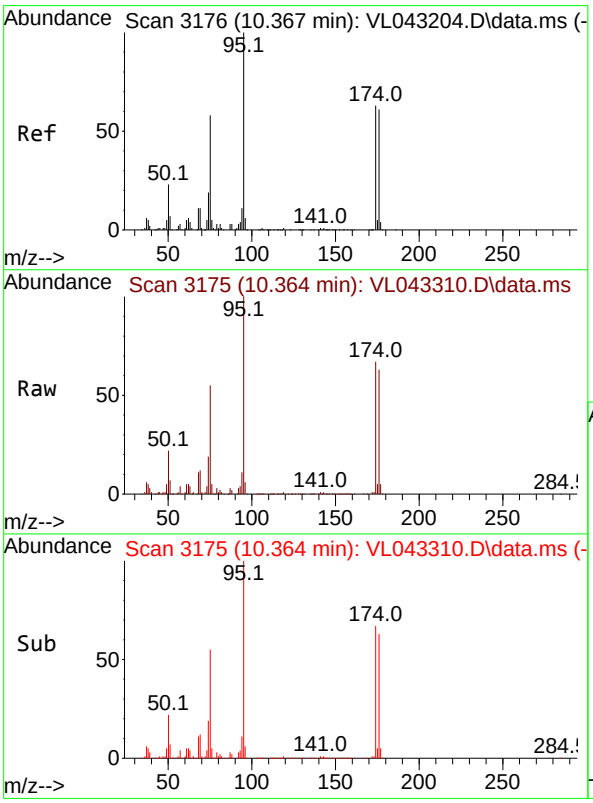
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion:117 Resp: 311445

Ion	Ratio	Lower	Upper
117	100		
82	66.3	56.1	84.1
119	32.4	25.0	37.6

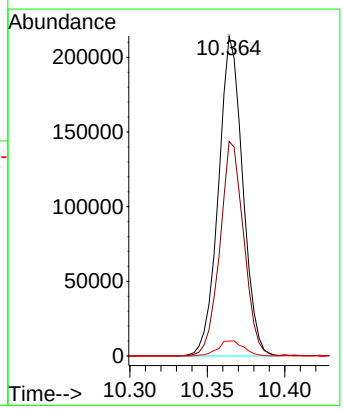




#68
1-Bromo-4-Fluorobenzene
Concen: 10.227 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043310.D
Acq: 08 Dec 2025 12:40

Tgt Ion: 95 Resp: 233482

Ion	Ratio	Lower	Upper
95	100		
174	66.4	50.2	75.2
175	5.1	4.1	6.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043311.D
Acq On : 08 Dec 2025 13:16
Operator : SY/MD
Sample : Q3799-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Quant Time: Dec 09 00:11:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

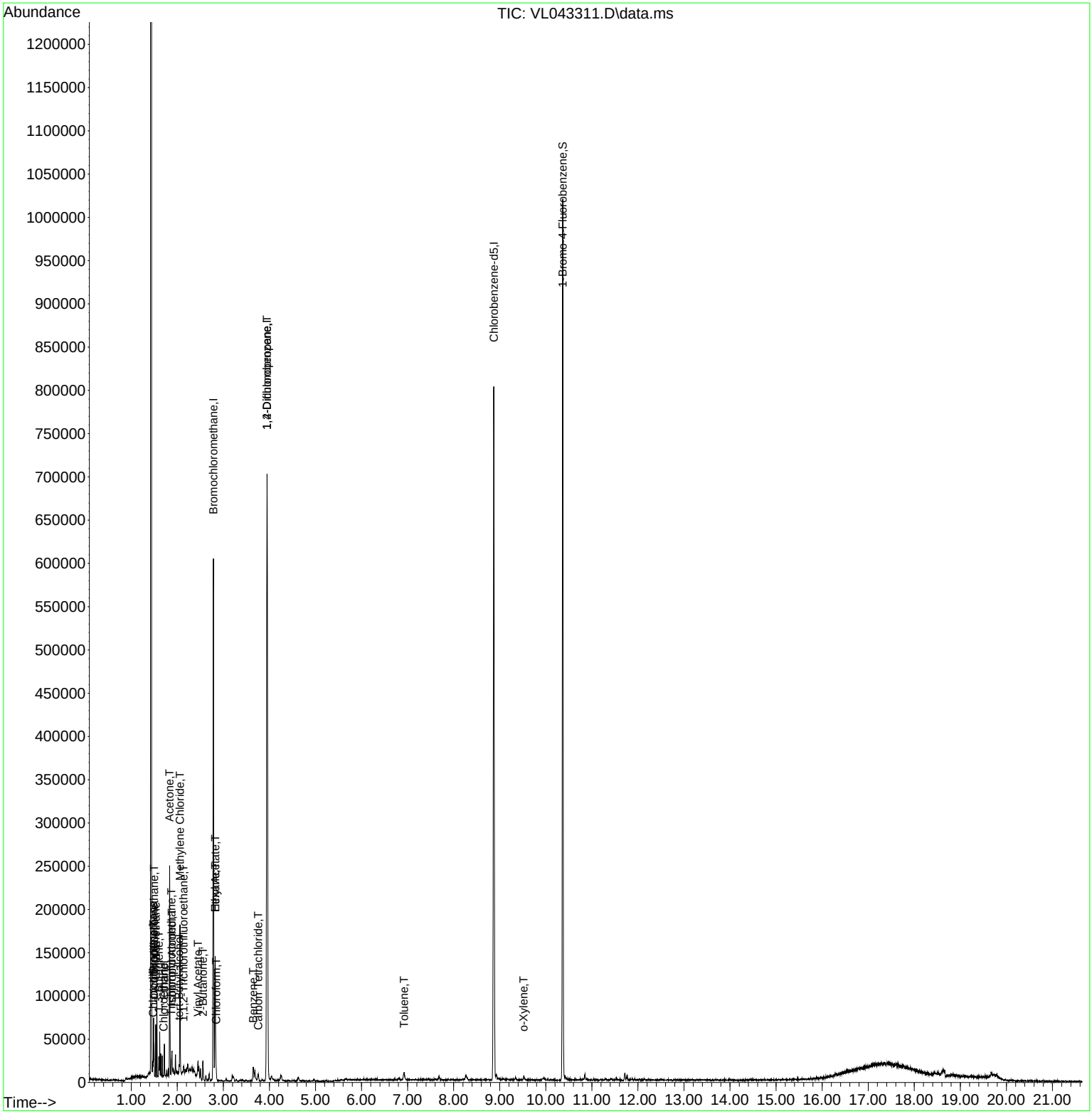
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	155357	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	397814	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	318793	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	229577	9.825	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	8883	0.405	ppbv		96
3) Chlorodifluoromethane	1.473	51	9471	0.440	ppbv	#	91
4) Chloromethane	1.531	50	17124	2.090	ppbv	#	87
7) Chloroethane	1.703	64	162	0.046	ppbv		99
9) Propene	1.486	41	6430	0.703	ppbv	#	1
11) Trichlorofluoromethane	1.875	101	4183	0.197	ppbv		90
12) 1,1,2-Trichlorotrifluo...	2.137	101	1148	0.069	ppbv		88
13) Ethanol	1.719	45	12812	3.982	ppbv		99
15) Acetone	1.832	43	103724	4.806	ppbv		95
16) 1,3-Butadiene	1.599	39	3175	0.330	ppbv	#	43
17) tert-Butyl alcohol	2.040	59	2973	0.105	ppbv		99
19) Isopropyl Alcohol	1.884	45	9039	0.741	ppbv	#	1
20) Methylene Chloride	2.059	84	24089	3.258	ppbv		95
23) Vinyl Acetate	2.451	43	9886	0.379	ppbv	#	97
25) Ethyl Acetate	2.823	43	21691	0.466	ppbv	#	80
26) Hexane	2.823	57	29316	1.436	ppbv	#	41
29) Chloroform	2.846	83	4392	0.151	ppbv		92
34) 2-Butanone	2.557	43	14218	0.506	ppbv		98
35) Carbon Tetrachloride	3.758	117	1347	0.045	ppbv	#	77
36) Benzene	3.648	78	6108	0.160	ppbv		94
39) 1,2-Dichloropropane	3.949	63	101486	7.278	ppbv	#	24
53) Toluene	6.924	91	4945	0.110	ppbv	#	81
60) o-Xylene	9.519	91	2361	0.048	ppbv		94

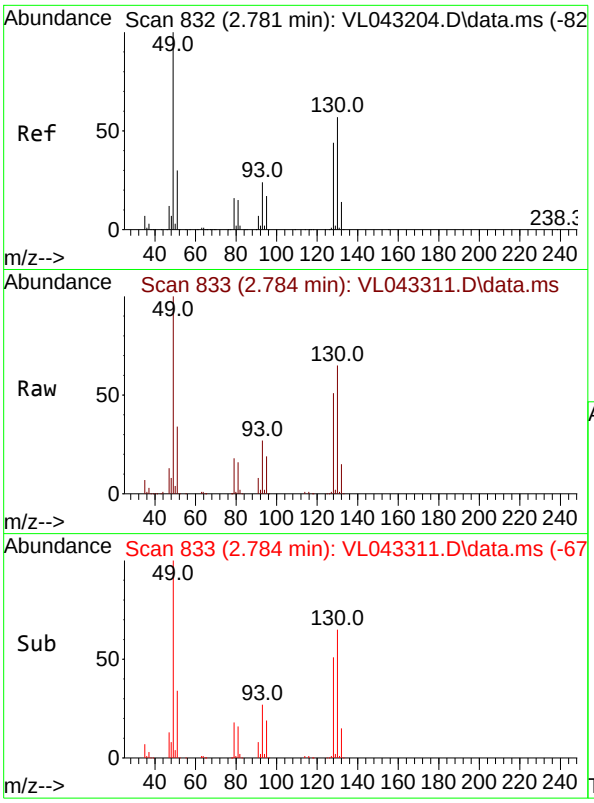
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043311.D
Acq On : 08 Dec 2025 13:16
Operator : SY/MD
Sample : Q3799-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Quant Time: Dec 09 00:11:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



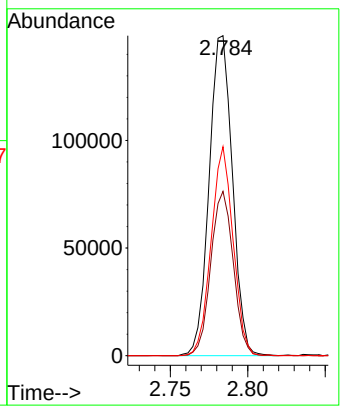


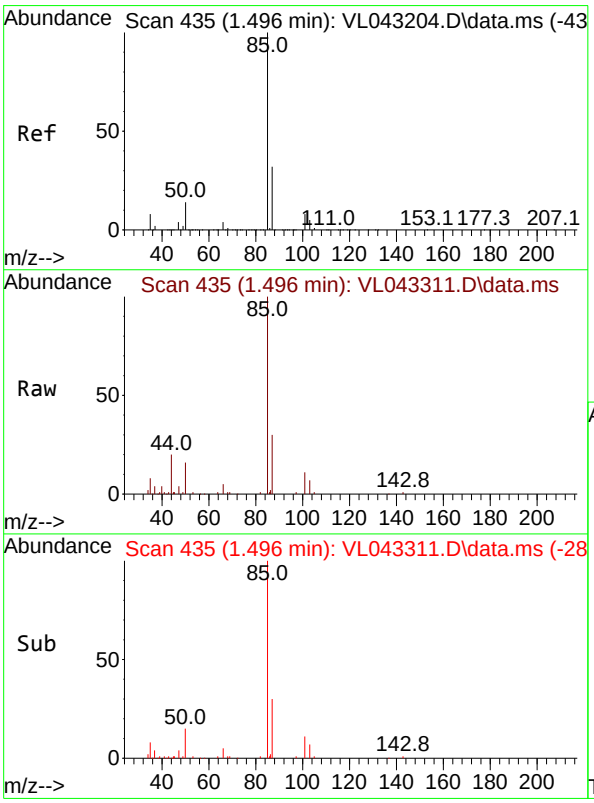
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 49 Resp: 155357

Ion	Ratio	Lower	Upper
49	100		
128	49.7	23.0	69.0
130	61.6	29.9	89.7

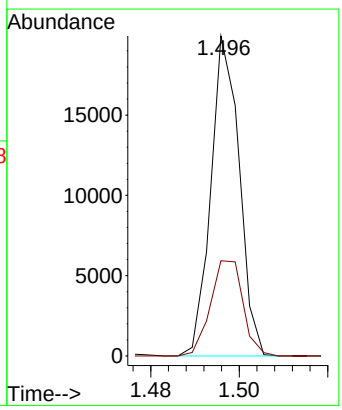


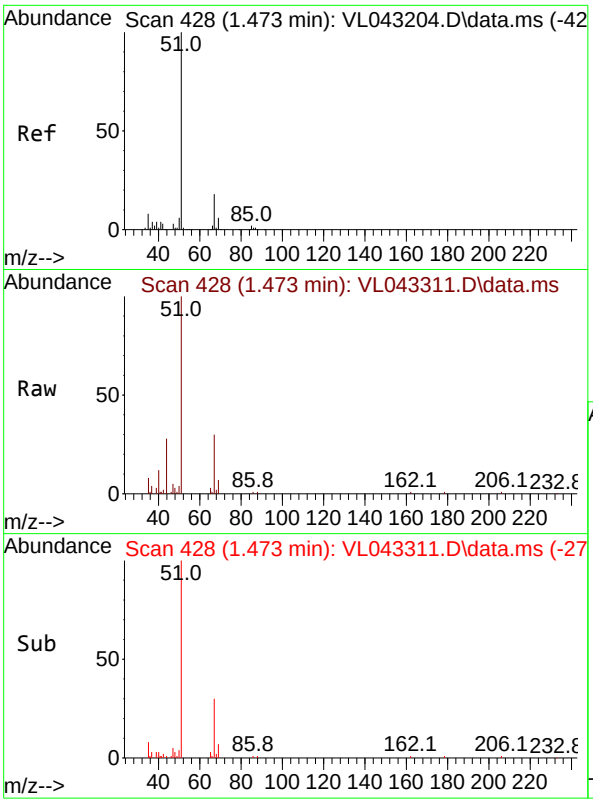


#2
Dichlorodifluoromethane
Concen: 0.405 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 85 Resp: 8883

Ion	Ratio	Lower	Upper
85	100		
87	29.8	25.4	38.2



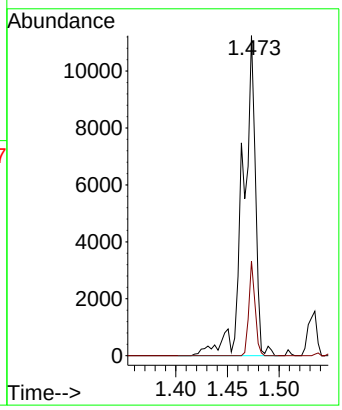


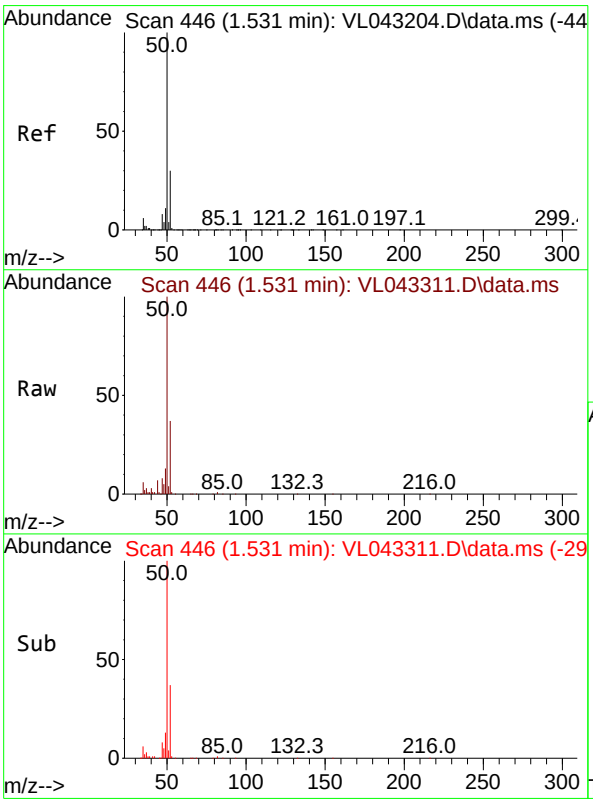
#3
Chlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 51 Resp: 9471

Ion	Ratio	Lower	Upper
51	100		
67	14.6	14.9	22.3#

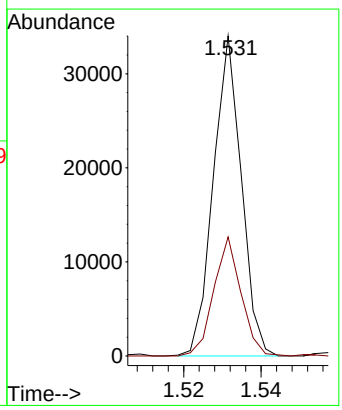


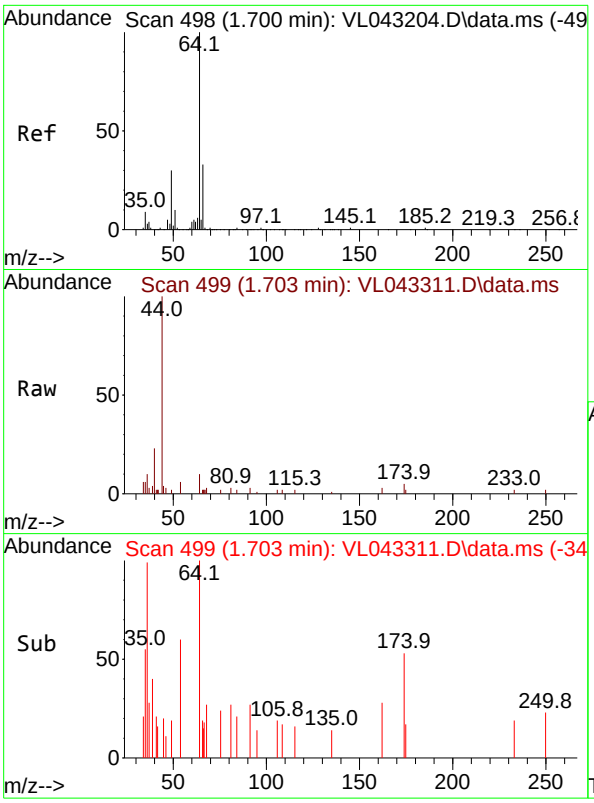


#4
Chloromethane
Concen: 2.090 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 50 Resp: 17124

Ion	Ratio	Lower	Upper
50	100		
52	37.1	24.1	36.1#



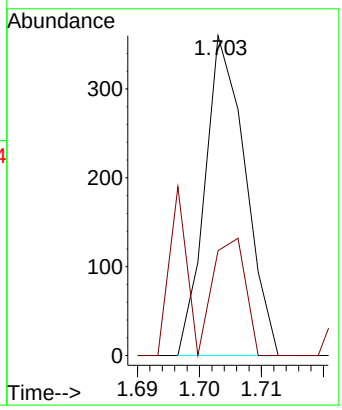


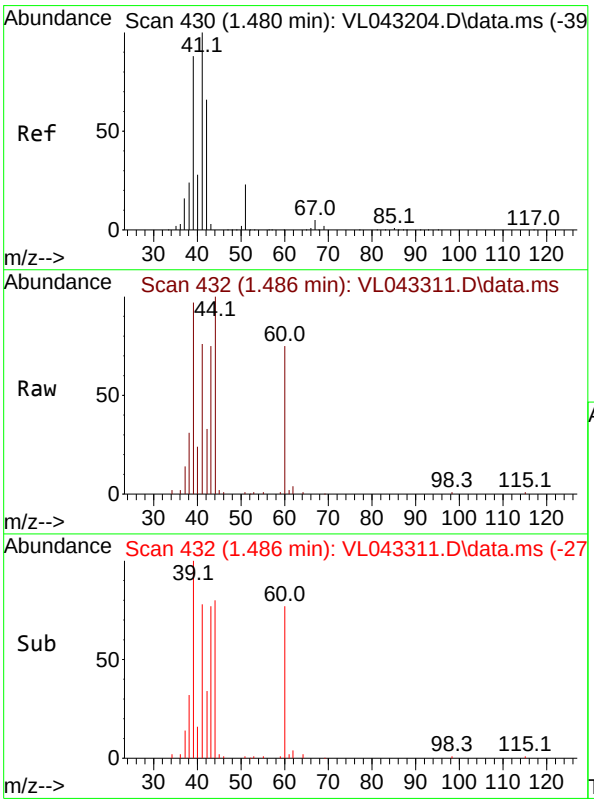
#7
Chloroethane
Concen: 0.046 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 64 Resp: 162

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.8	40.2

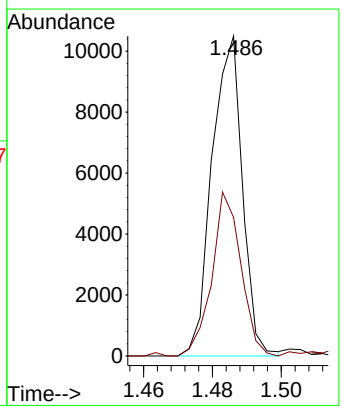


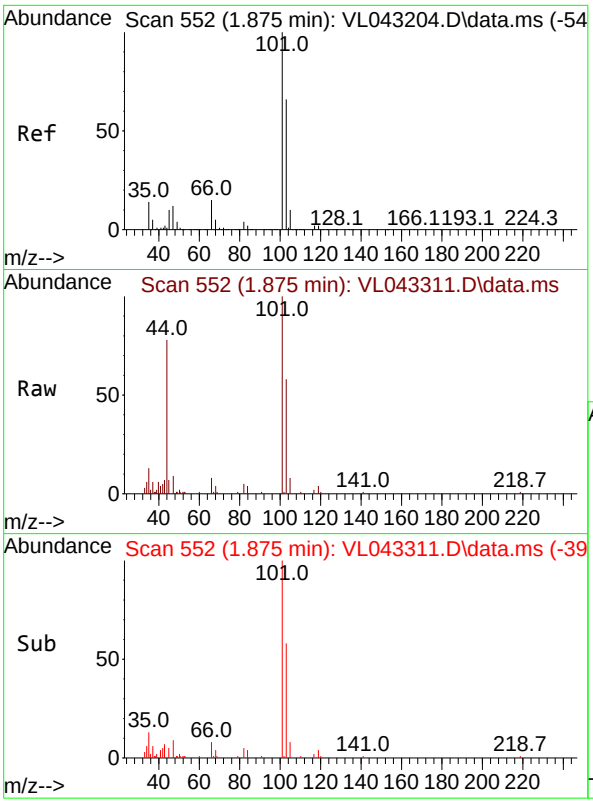


#9
Propene
Concen: 0.703 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 41 Resp: 6430

Ion	Ratio	Lower	Upper
41	100		
42	50.0	3.7	5.5#



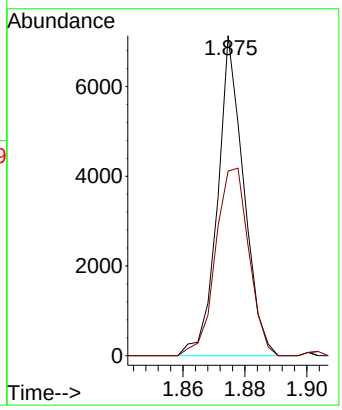


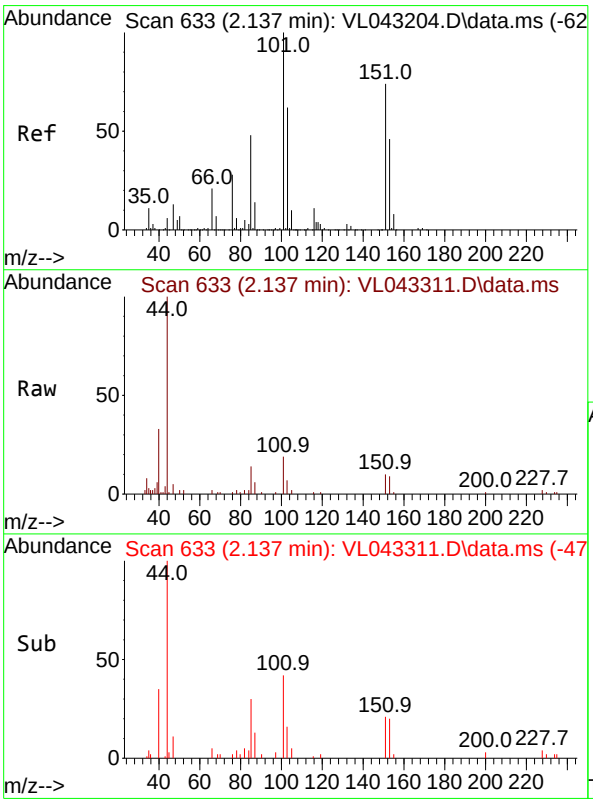
#11
Trichlorofluoromethane
Concen: 0.197 ppbv
RT: 1.875 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion:101 Resp: 4183

Ion	Ratio	Lower	Upper
101	100		
103	57.7	52.6	79.0

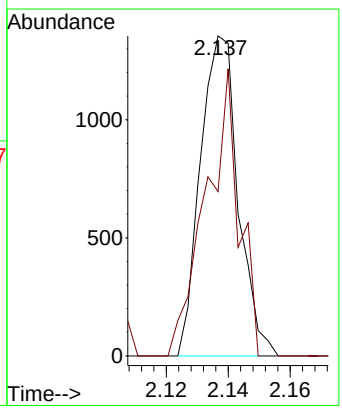


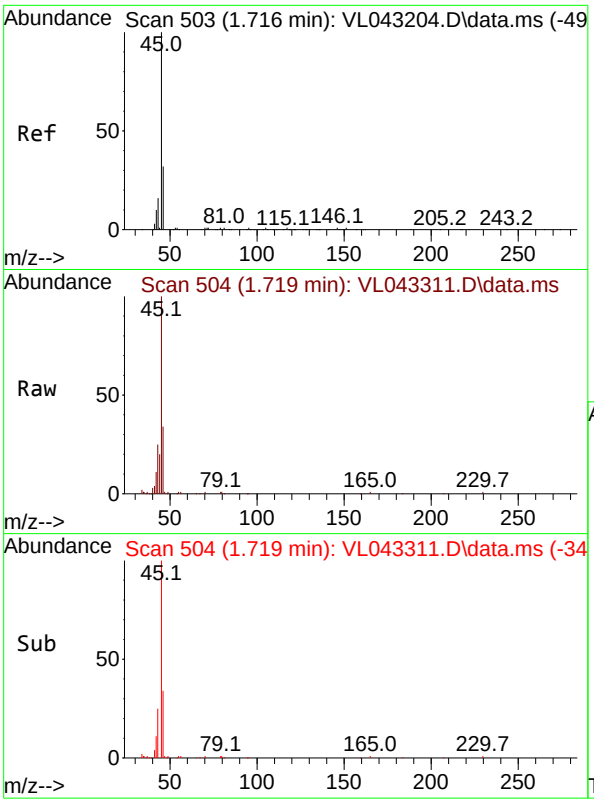


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.069 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion:101 Resp: 1148

Ion	Ratio	Lower	Upper
101	100		
151	84.3	59.2	88.8



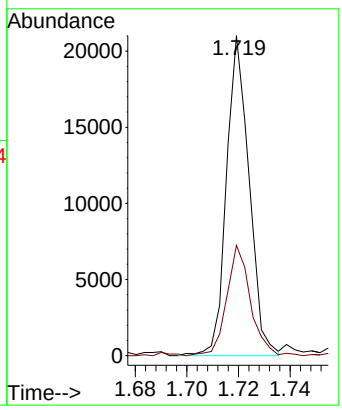


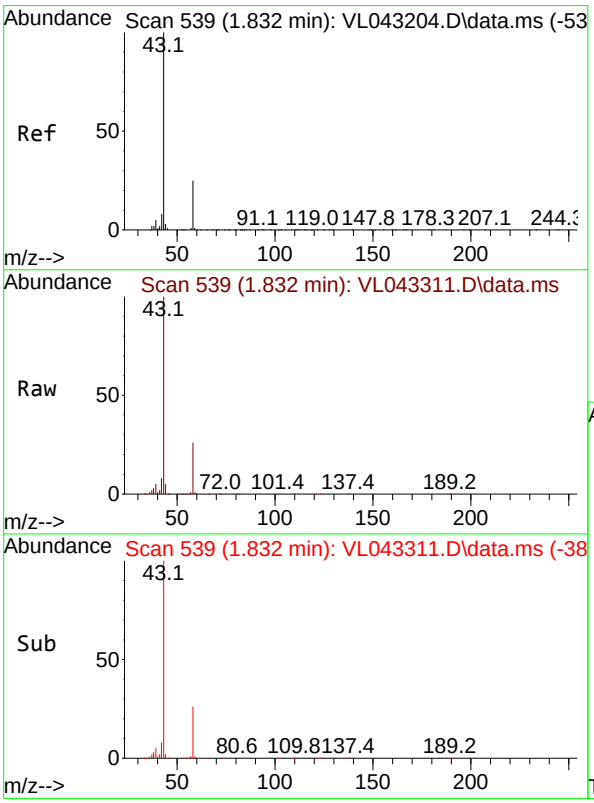
#13
Ethanol
Concen: 3.982 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 45 Resp: 12812

Ion	Ratio	Lower	Upper
45	100		
46	38.2	15.0	59.8

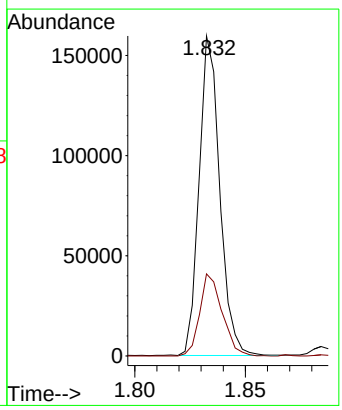


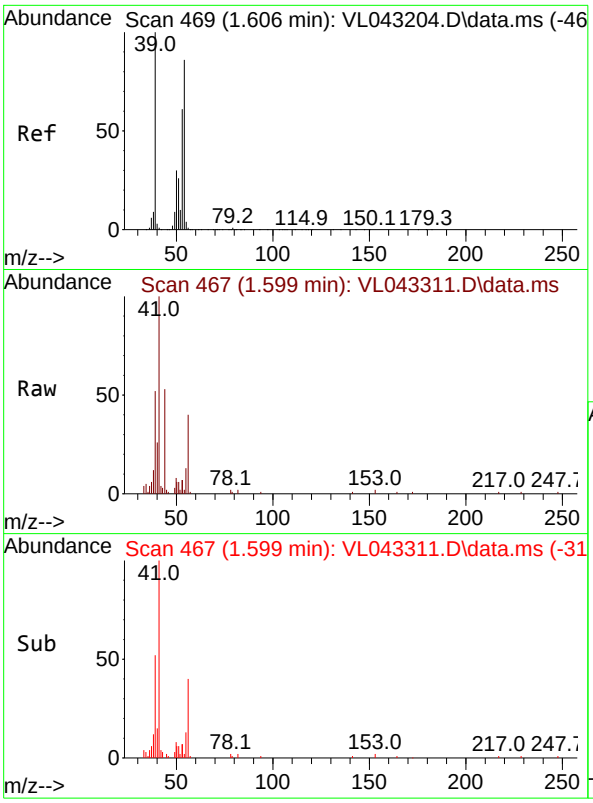


#15
Acetone
Concen: 4.806 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 43 Resp: 103724

Ion	Ratio	Lower	Upper
43	100		
58	28.4	20.7	31.1



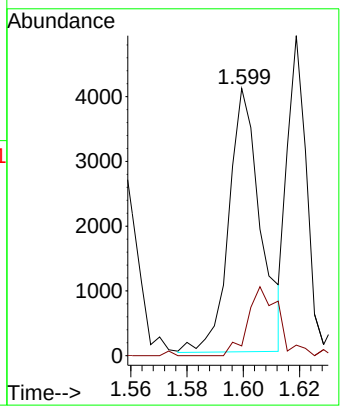


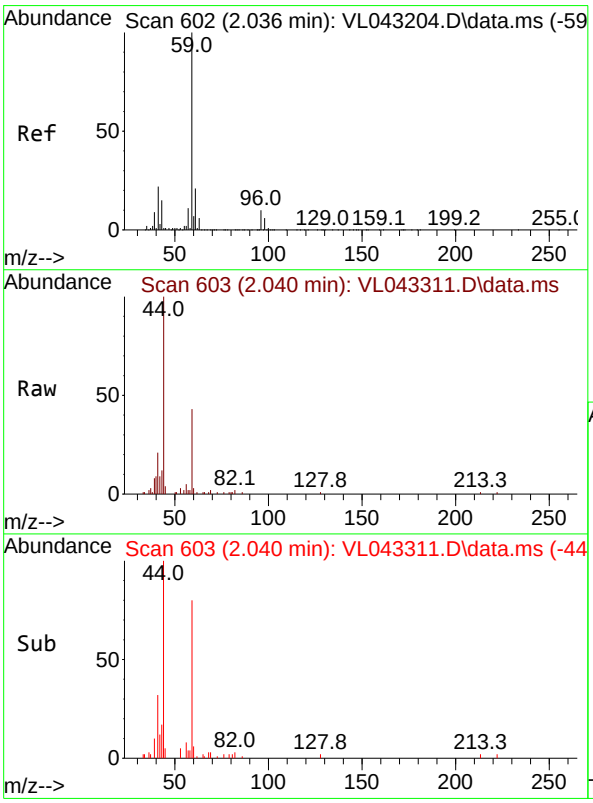
#16
1,3-Butadiene
Concen: 0.330 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 39 Resp: 3175

Ion	Ratio	Lower	Upper
39	100		
54	26.3	59.4	89.2#

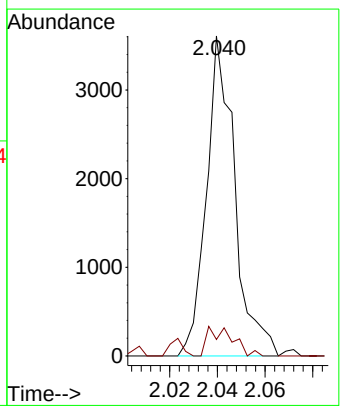


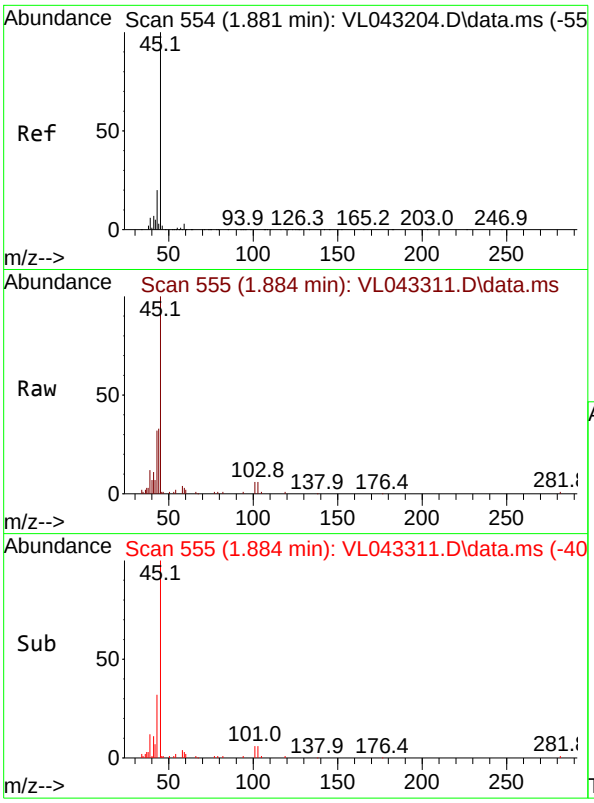


#17
tert-Butyl alcohol
Concen: 0.105 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 59 Resp: 2973

Ion	Ratio	Lower	Upper
59	100		
57	11.7	9.0	13.4



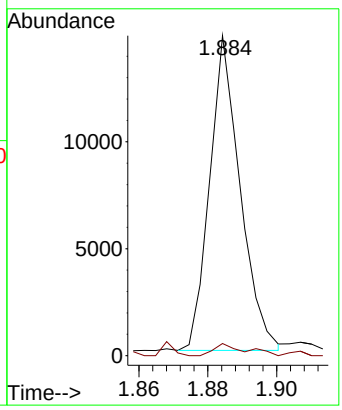


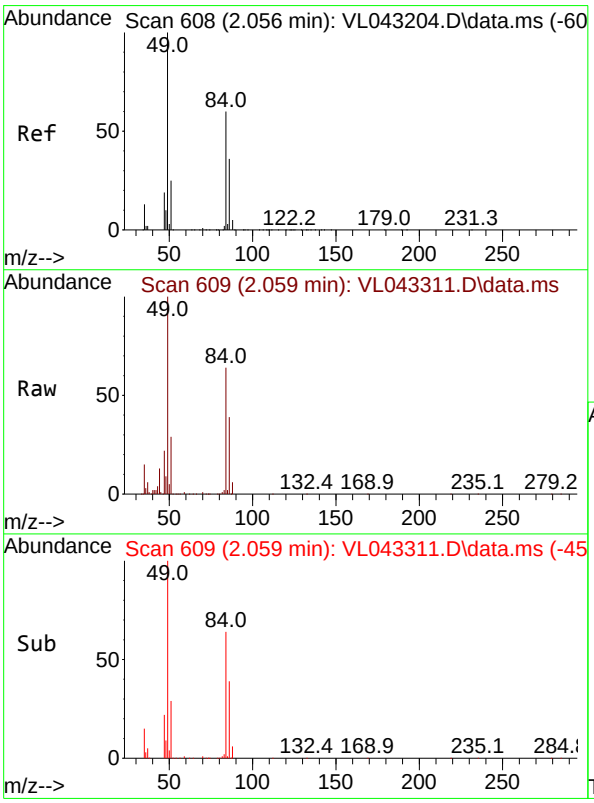
#19
Isopropyl Alcohol
Concen: 0.741 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 45 Resp: 9039

Ion	Ratio	Lower	Upper
45	100		
58	326.3	31.3	46.9#

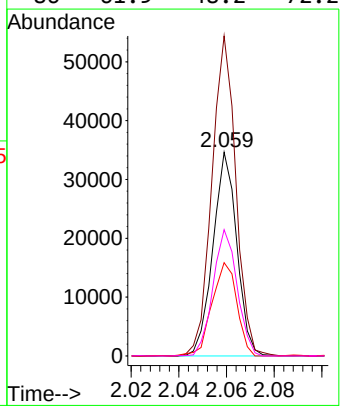


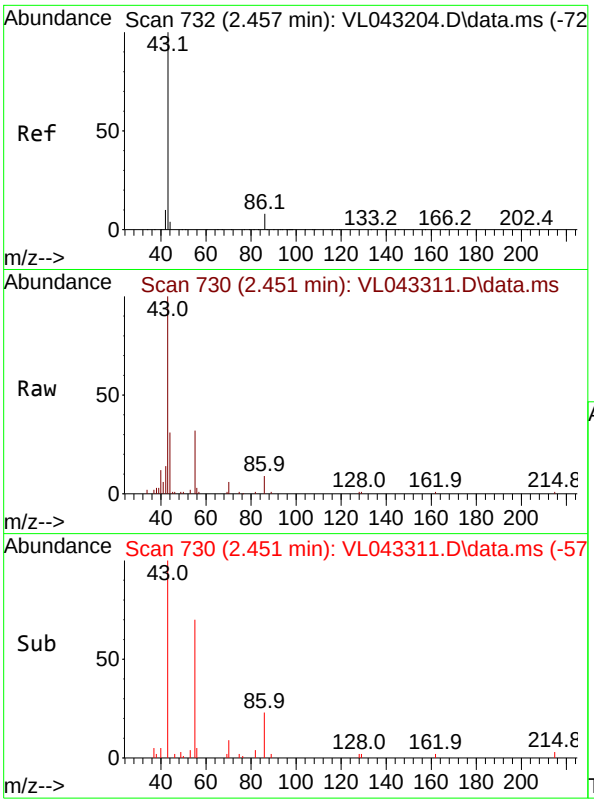


#20
Methylene Chloride
Concen: 3.258 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 84 Resp: 24089

Ion	Ratio	Lower	Upper
84	100		
49	157.1	132.9	199.3
51	45.8	34.8	52.2
86	61.9	48.2	72.2



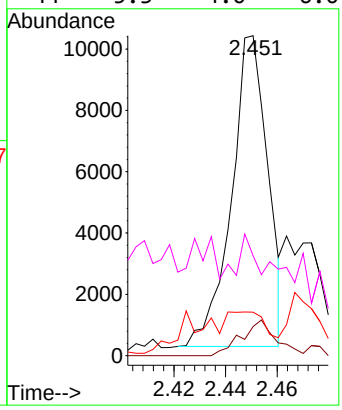


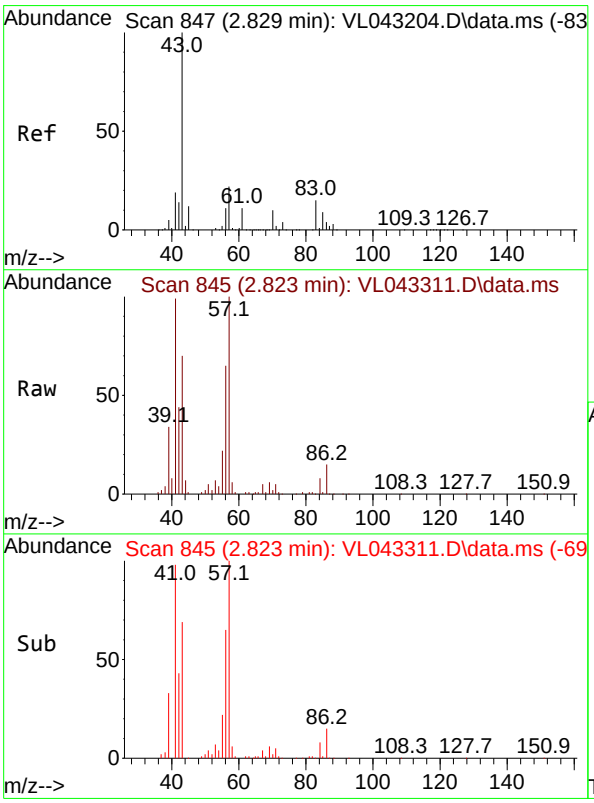
#23
Vinyl Acetate
Concen: 0.379 ppbv
RT: 2.451 min Scan# 7
Delta R.T. -0.006 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 43 Resp: 9886

Ion	Ratio	Lower	Upper
43	100		
86	9.4	6.2	9.2#
42	9.0	8.0	12.0
44	5.3	4.0	6.0

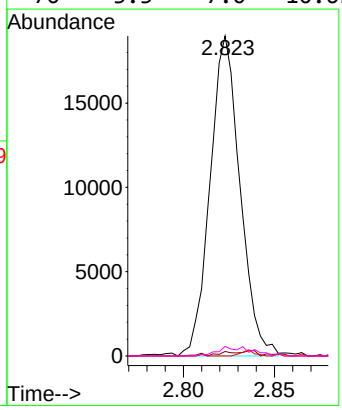


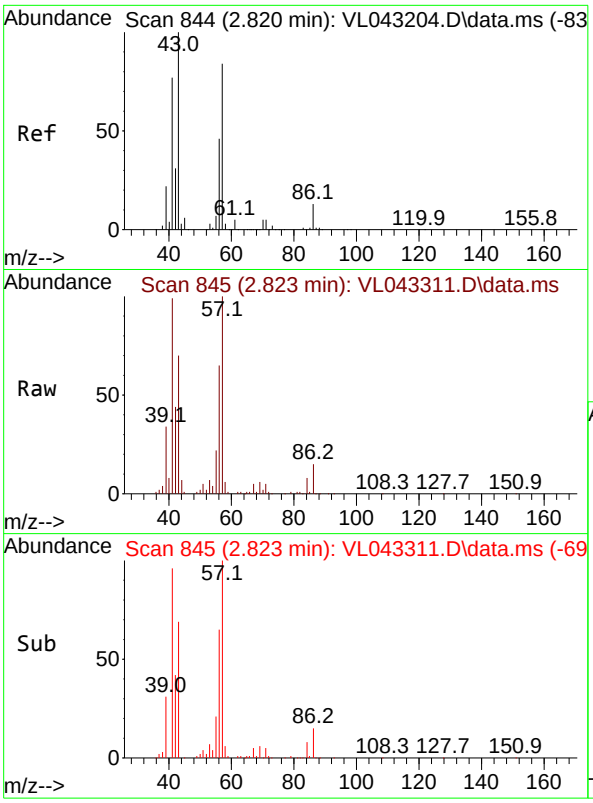


#25
Ethyl Acetate
Concen: 0.466 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.006 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 43 Resp: 21691

Ion	Ratio	Lower	Upper
43	100		
45	2.1	8.1	12.1#
61	0.9	7.0	10.4#
70	3.3	7.0	10.6#



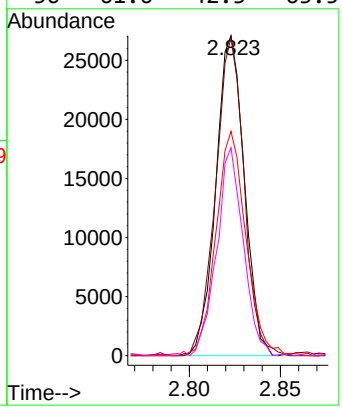


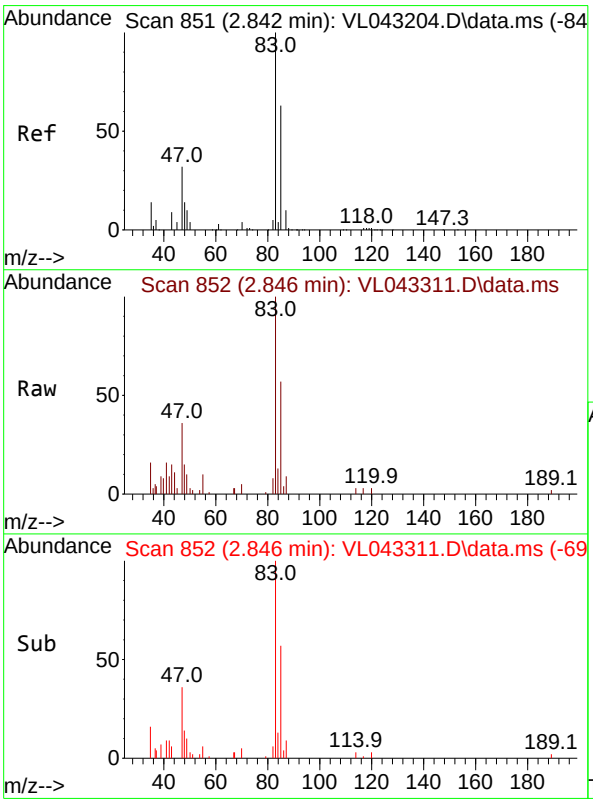
#26
Hexane
Concen: 1.436 ppbv
RT: 2.823 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 57 Resp: 29316

Ion	Ratio	Lower	Upper
57	100		
41	101.3	74.6	111.8
43	75.4	179.0	268.4#
56	61.6	42.3	63.5

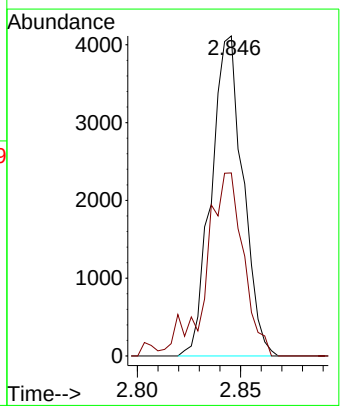


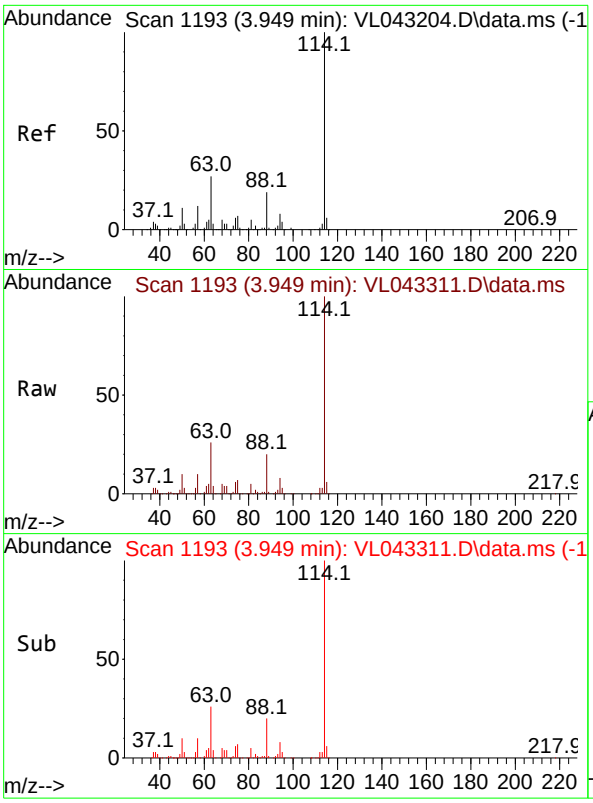


#29
Chloroform
Concen: 0.151 ppbv
RT: 2.846 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 83 Resp: 4392

Ion	Ratio	Lower	Upper
83	100		
85	57.2	50.5	75.7



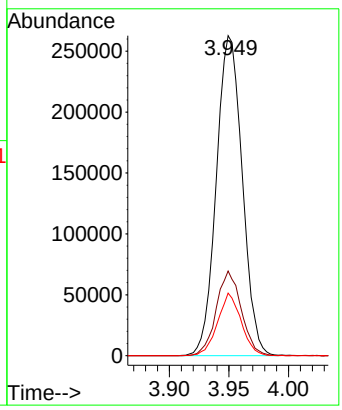


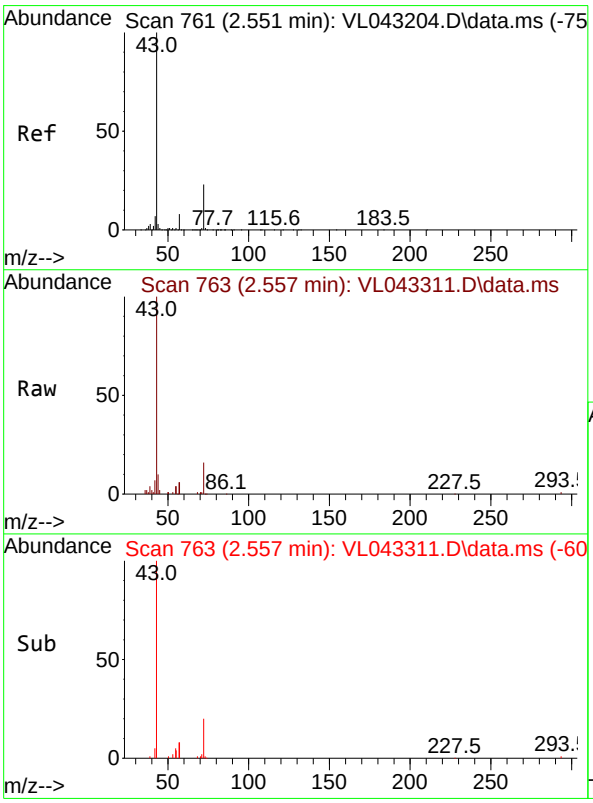
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion:114 Resp: 397814

Ion	Ratio	Lower	Upper
114	100		
63	25.5	21.0	31.6
88	17.8	14.9	22.3

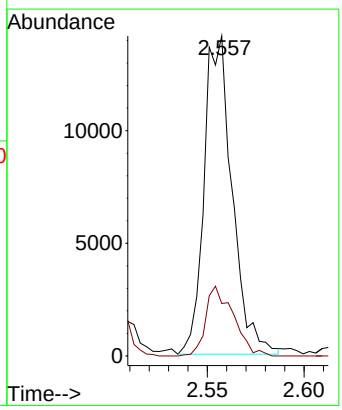


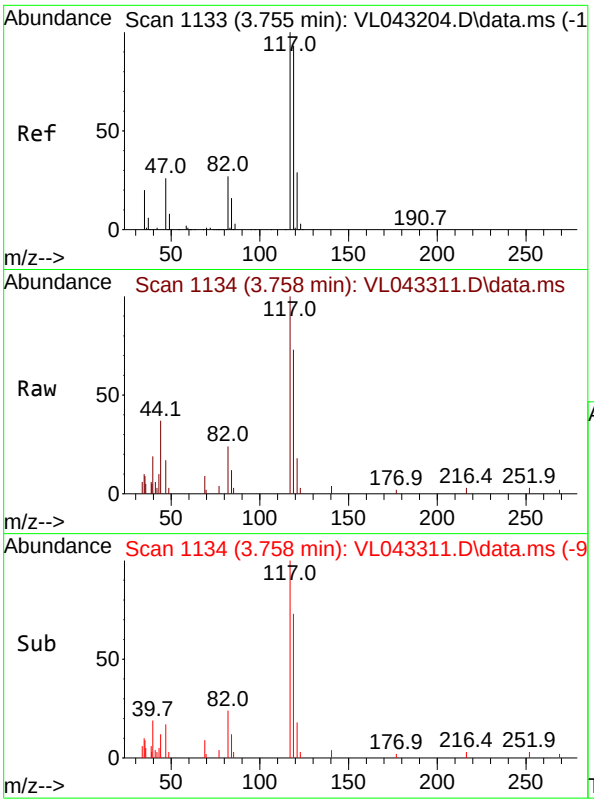


#34
2-Butanone
Concen: 0.506 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 43 Resp: 14218

Ion	Ratio	Lower	Upper
43	100		
72	21.7	18.1	27.1



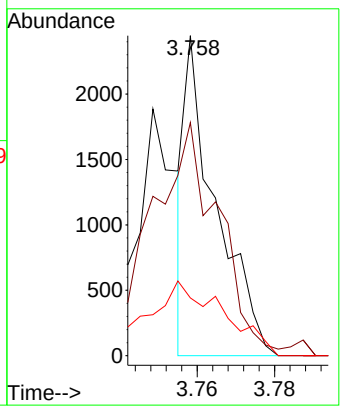


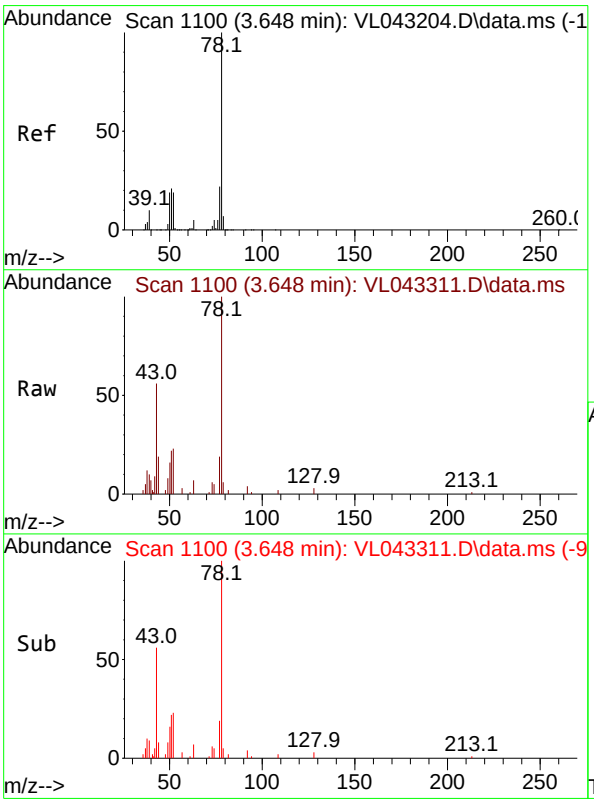
#35
Carbon Tetrachloride
Concen: 0.045 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion:117 Resp: 1347

Ion	Ratio	Lower	Upper
117	100		
119	70.8	74.6	112.0#
121	18.1	23.2	34.8#

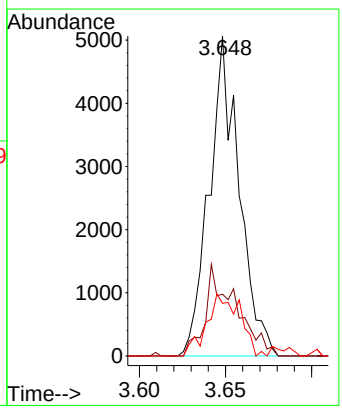


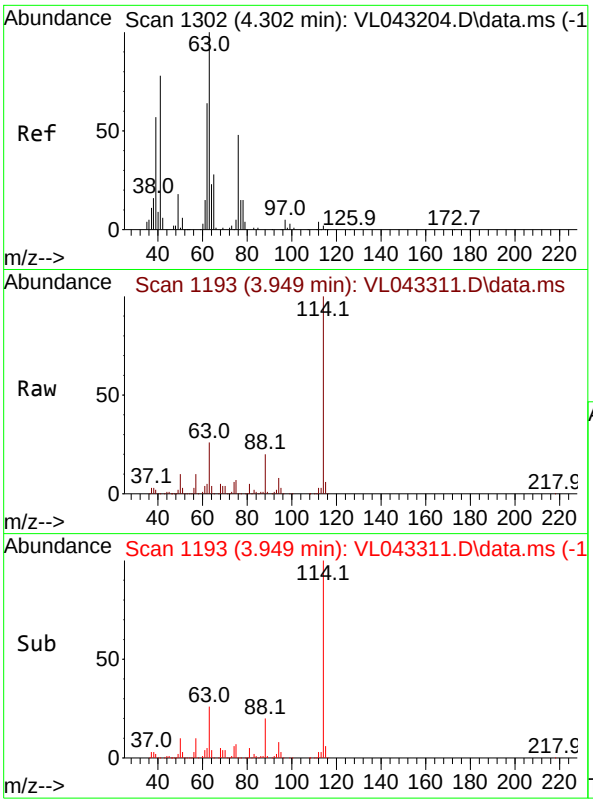


#36
Benzene
Concen: 0.160 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 78 Resp: 6108

Ion	Ratio	Lower	Upper
78	100		
77	19.3	17.5	26.3
50	16.5	15.5	23.3



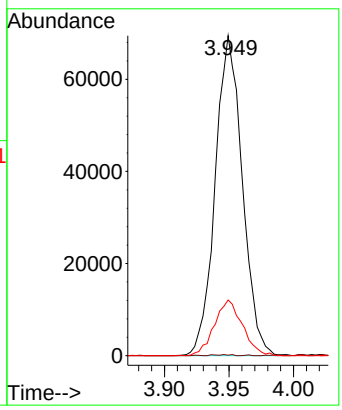


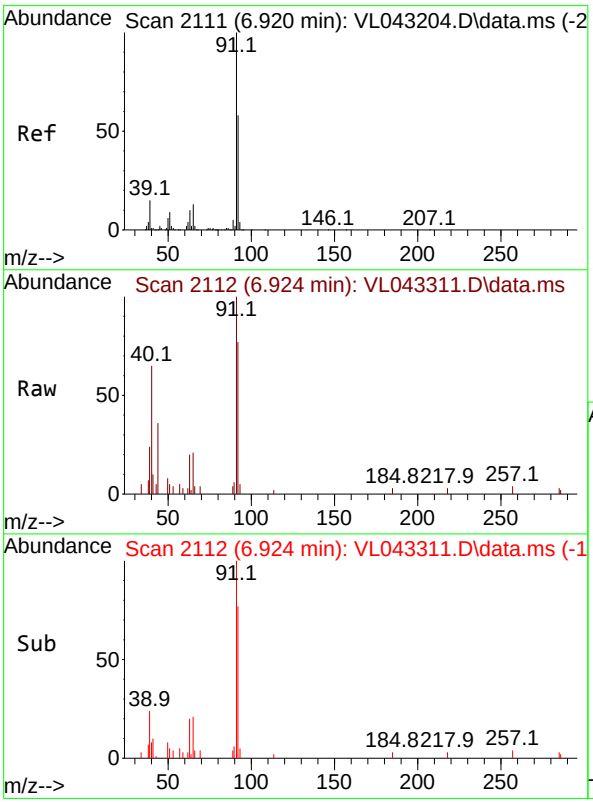
#39
1,2-Dichloropropane
Concen: 7.278 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.353 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 63 Resp: 101486

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.6	93.8#
62	17.4	51.0	76.6#

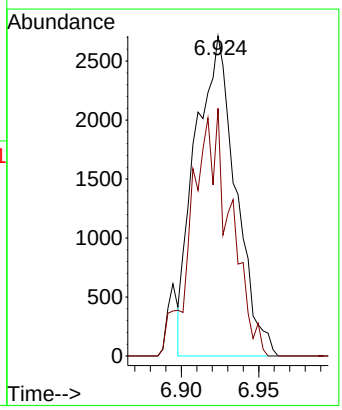


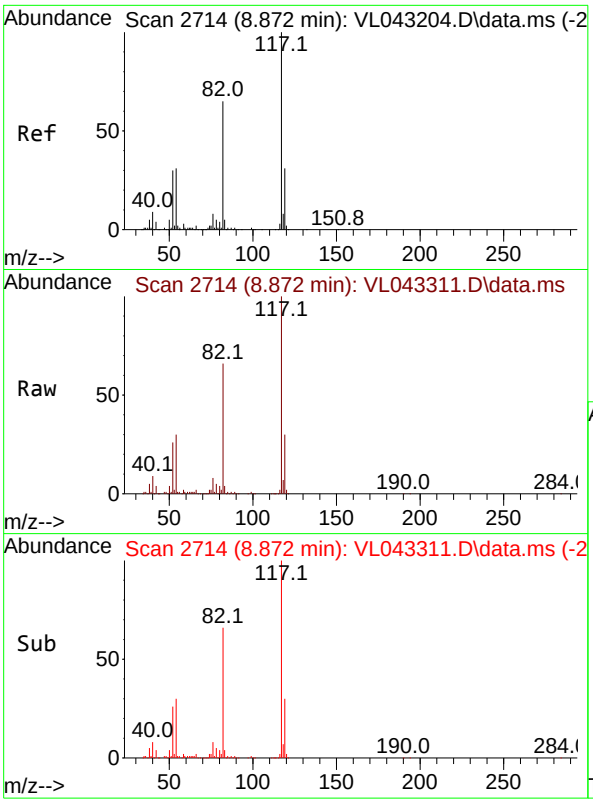


#53
Toluene
Concen: 0.110 ppbv
RT: 6.924 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 91 Resp: 4945

Ion	Ratio	Lower	Upper
91	100		
92	73.7	47.4	71.0#



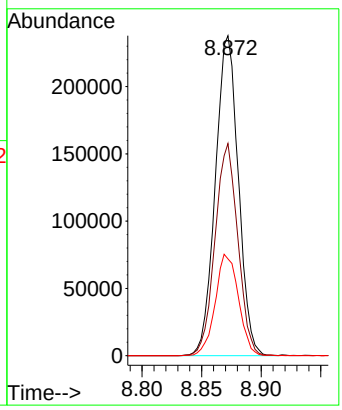


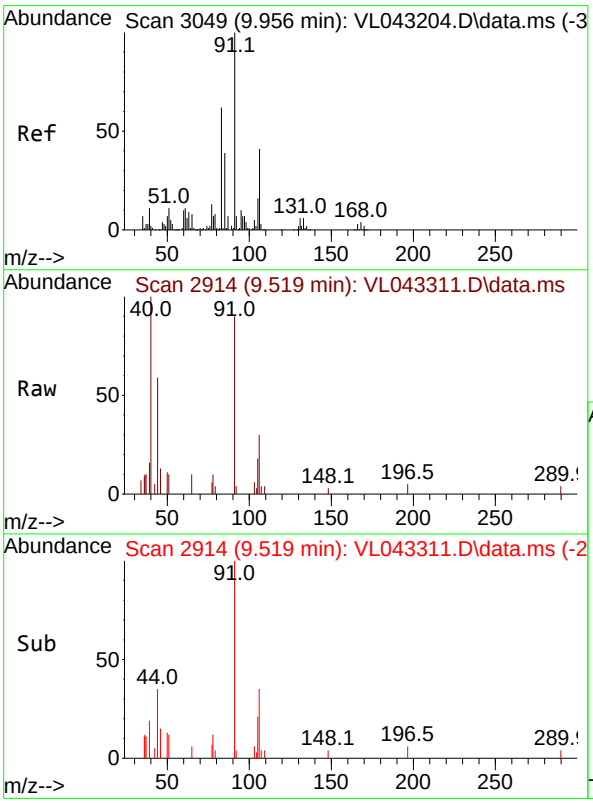
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion:117 Resp: 318793

Ion	Ratio	Lower	Upper
117	100		
82	65.7	56.1	84.1
119	32.2	25.0	37.6

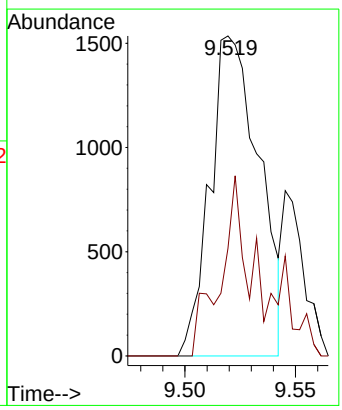


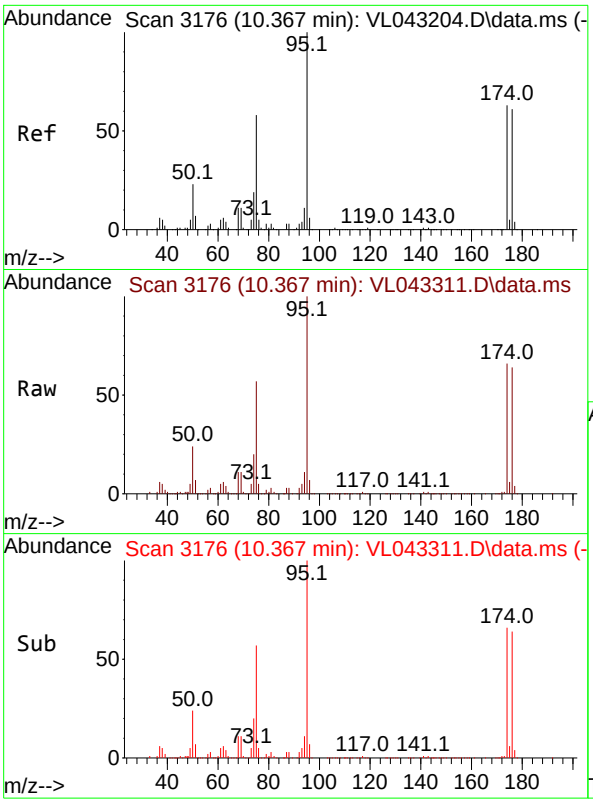


#60
o-Xylene
Concen: 0.048 ppbv
RT: 9.519 min Scan# 2914
Delta R.T. -0.437 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Tgt Ion: 91 Resp: 2361

Ion	Ratio	Lower	Upper
91	100		
106	45.6	20.9	62.8



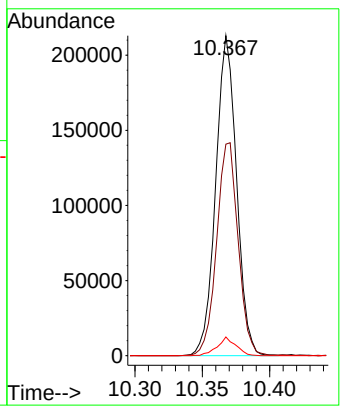


#68
1-Bromo-4-Fluorobenzene
Concen: 9.825 ppbv
RT: 10.367 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043311.D
Acq: 08 Dec 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 95 Resp: 229577

Ion	Ratio	Lower	Upper
95	100		
174	68.8	50.2	75.2
175	5.2	4.1	6.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043312.D
Acq On : 08 Dec 2025 13:52
Operator : SY/MD
Sample : Q3799-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Quant Time: Dec 09 00:11:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

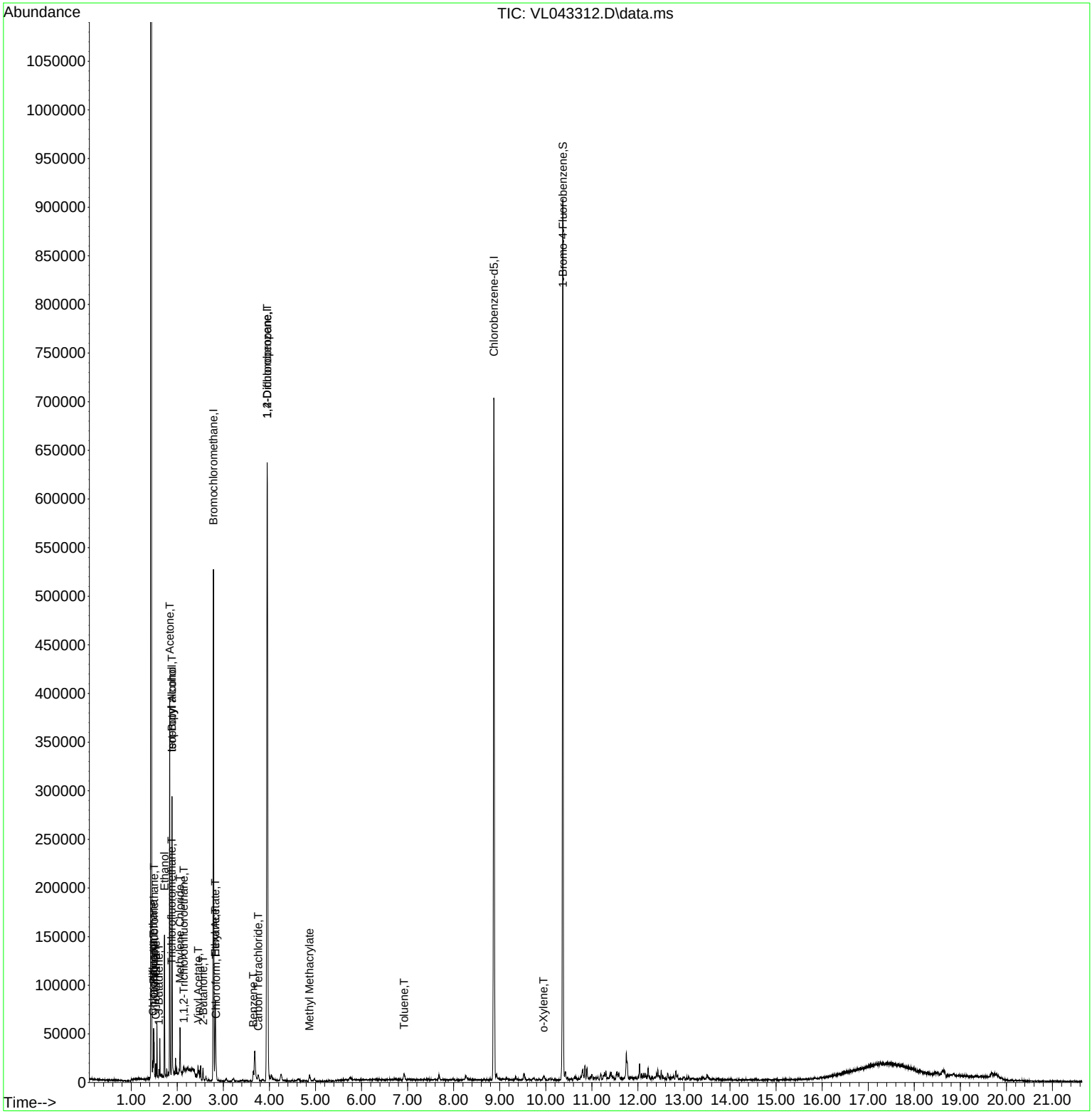
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	137082	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.952	114	357699	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.875	117	281919	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	213574	10.335	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	7699	0.398	ppbv		99
3) Chlorodifluoromethane	1.476	51	9652	0.508	ppbv	#	78
4) Chloromethane	1.531	50	3969	0.549	ppbv		92
9) Propene	1.486	41	4514	0.559	ppbv	#	1
11) Trichlorofluoromethane	1.877	101	3724	0.199	ppbv		89
12) 1,1,2-Trichlorotrifluo...	2.140	101	1125	0.077	ppbv		87
13) Ethanol	1.722	45	50530	17.797	ppbv		99
15) Acetone	1.835	43	166746	8.755	ppbv		99
16) 1,3-Butadiene	1.599	39	943	0.111	ppbv	#	38
17) tert-Butyl alcohol	1.884	59	3955	0.158	ppbv		95
19) Isopropyl Alcohol	1.884	45	109957	10.217	ppbv		99
20) Methylene Chloride	2.059	84	6881	0.479	ppbv		83
23) Vinyl Acetate	2.454	43	7277	0.316	ppbv	#	92
25) Ethyl Acetate	2.826	43	15972	0.389	ppbv	#	91
26) Hexane	2.826	57	15912	0.884	ppbv	#	52
29) Chloroform	2.842	83	1770	0.069	ppbv		84
34) 2-Butanone	2.560	43	7477	0.296	ppbv		94
35) Carbon Tetrachloride	3.755	117	1086	0.040	ppbv	#	64
36) Benzene	3.648	78	5022	0.147	ppbv	#	77
39) 1,2-Dichloropropane	3.952	63	88229	7.037	ppbv	#	24
43) Methyl Methacrylate	4.868	69	1326	0.073	ppbv	#	1
53) Toluene	6.923	91	2002	0.049	ppbv	#	2
60) o-Xylene	9.953	91	1733	0.040	ppbv		91

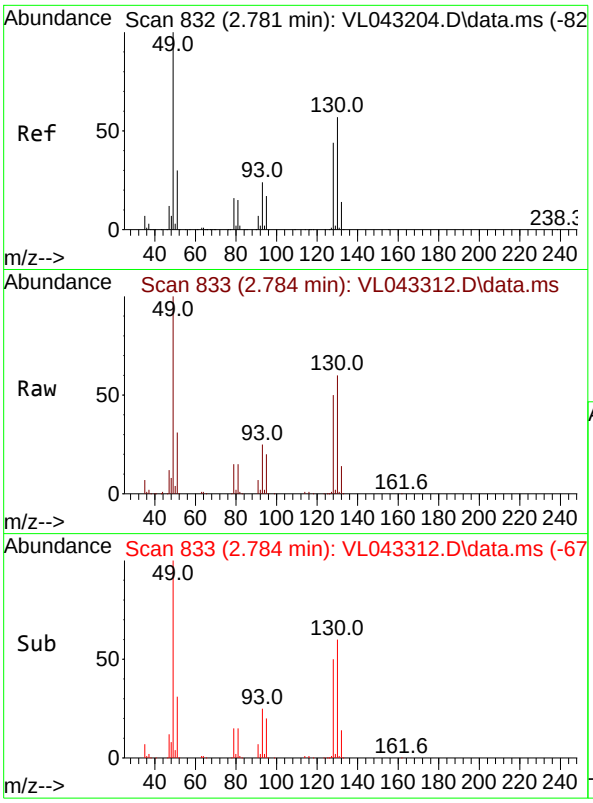
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043312.D
Acq On : 08 Dec 2025 13:52
Operator : SY/MD
Sample : Q3799-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Quant Time: Dec 09 00:11:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



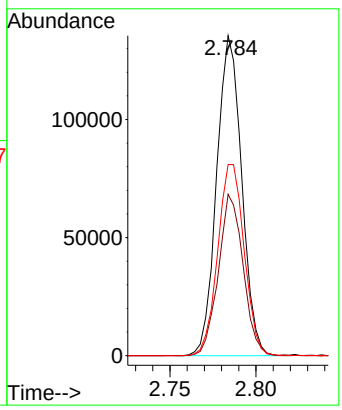


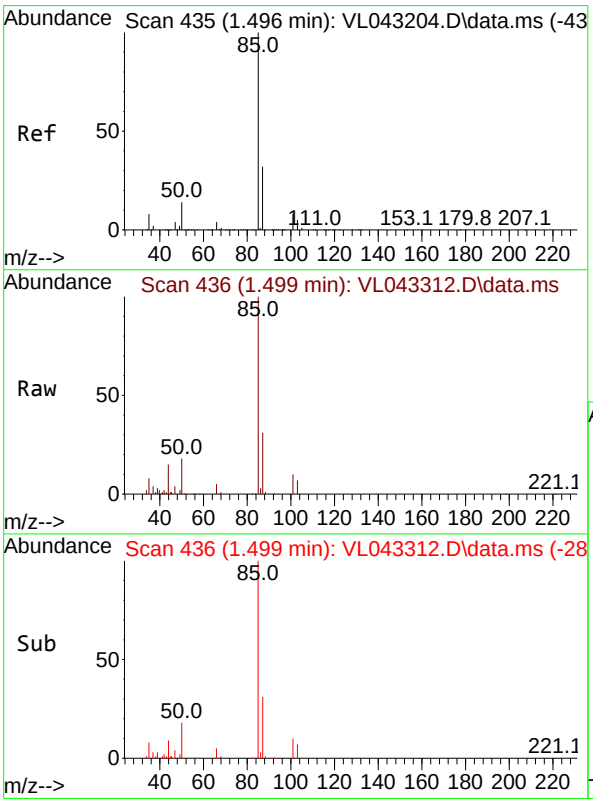
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 49 Resp: 137082

Ion	Ratio	Lower	Upper
49	100		
128	49.8	23.0	69.0
130	63.2	29.9	89.7

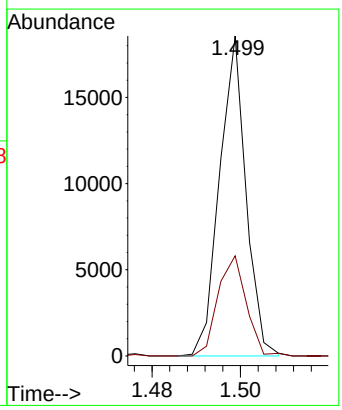


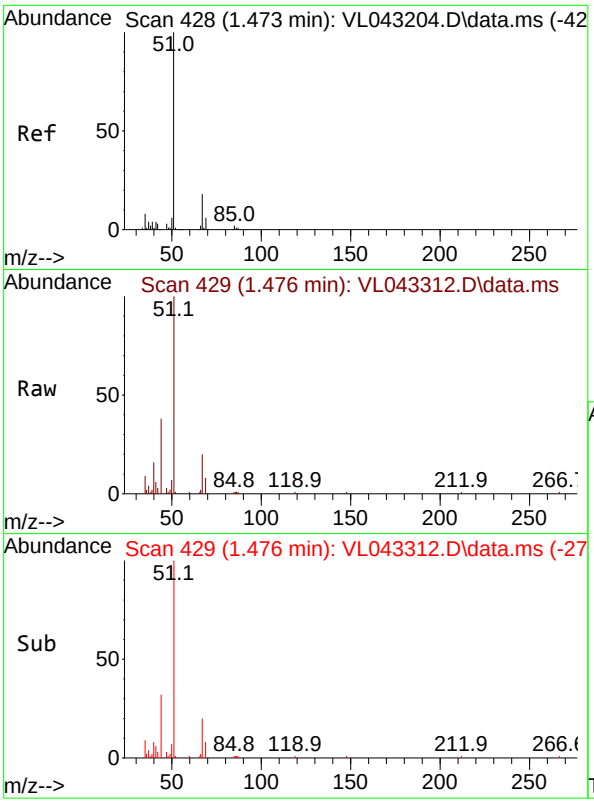


#2
Dichlorodifluoromethane
Concen: 0.398 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 85 Resp: 7699

Ion	Ratio	Lower	Upper
85	100		
87	31.3	25.4	38.2



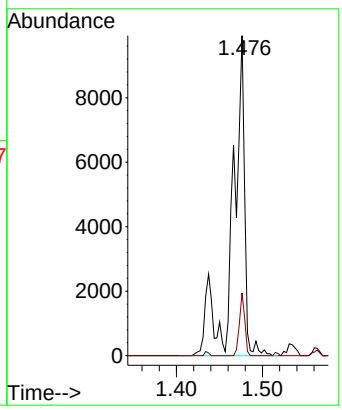


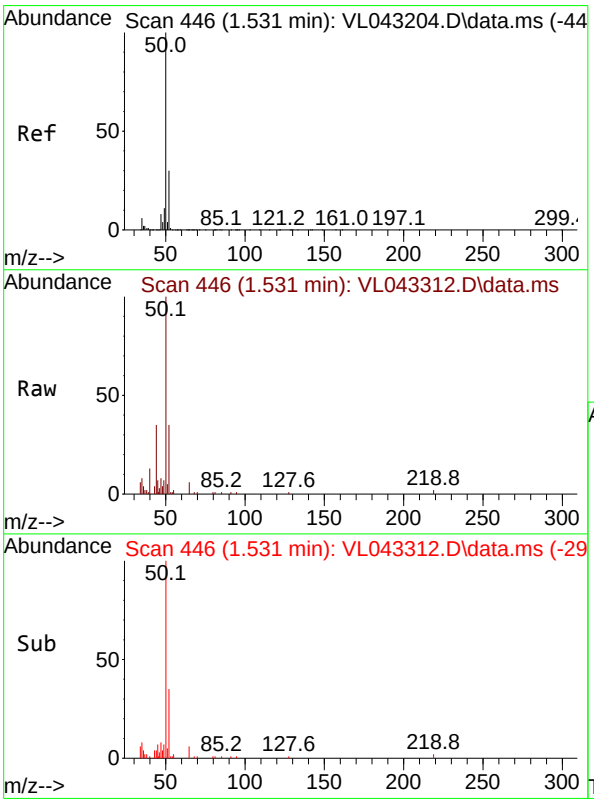
#3
Chlorodifluoromethane
Concen: 0.508 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 51 Resp: 9652

Ion	Ratio	Lower	Upper
51	100		
67	8.7	14.9	22.3#

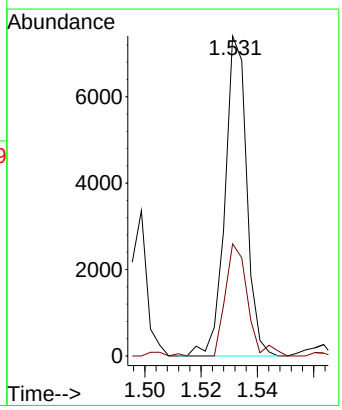


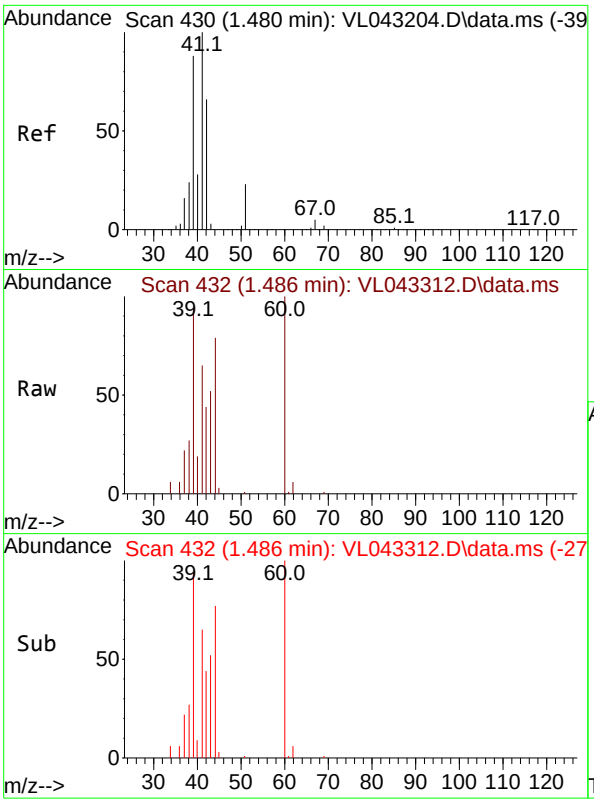


#4
Chloromethane
Concen: 0.549 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 50 Resp: 3969

Ion	Ratio	Lower	Upper
50	100		
52	34.3	24.1	36.1



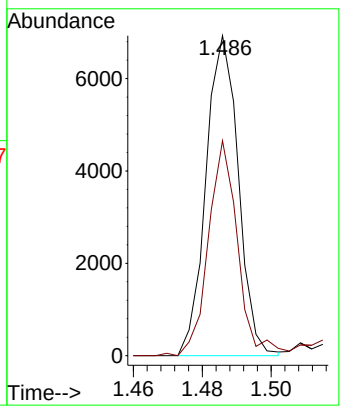


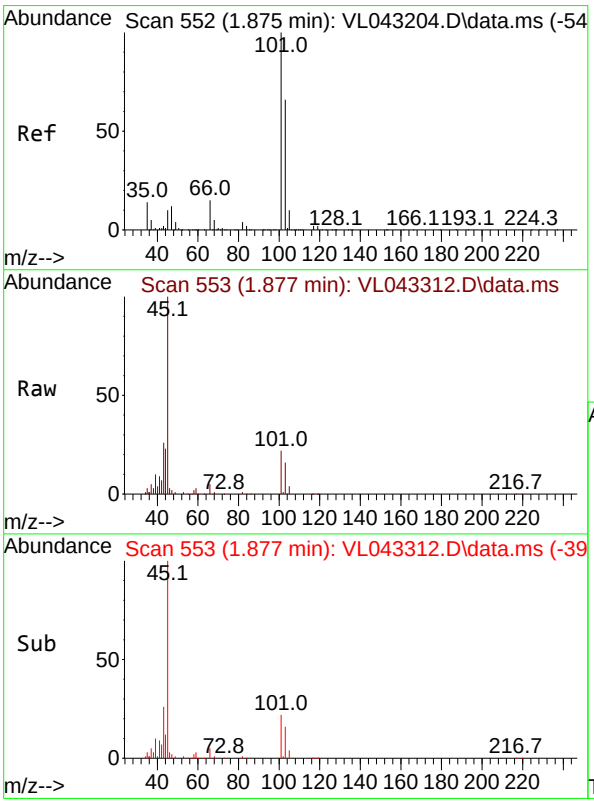
#9
Propene
Concen: 0.559 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 41 Resp: 4514

Ion	Ratio	Lower	Upper
41	100		
42	61.9	3.7	5.5#

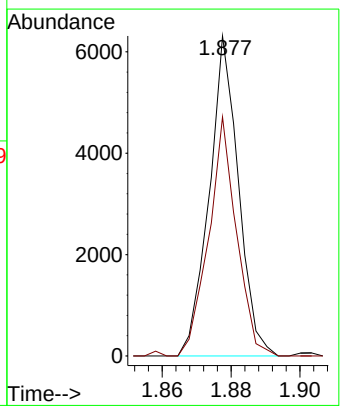


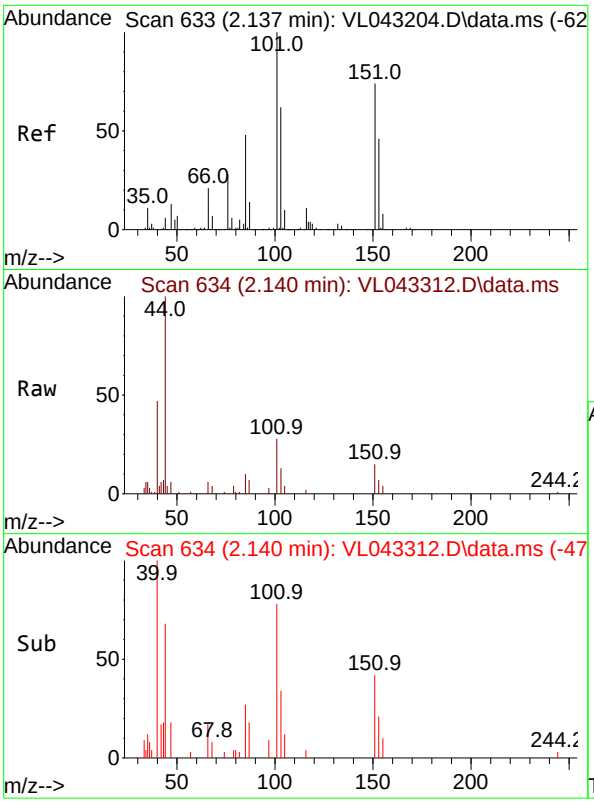


#11
Trichlorofluoromethane
Concen: 0.199 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion:101 Resp: 3724

Ion	Ratio	Lower	Upper
101	100		
103	74.7	52.6	79.0



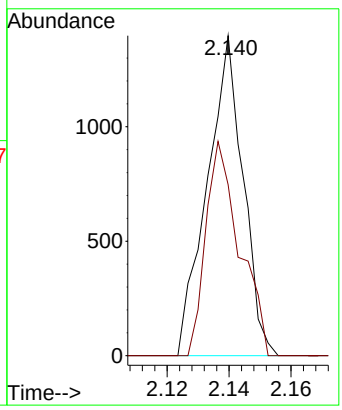


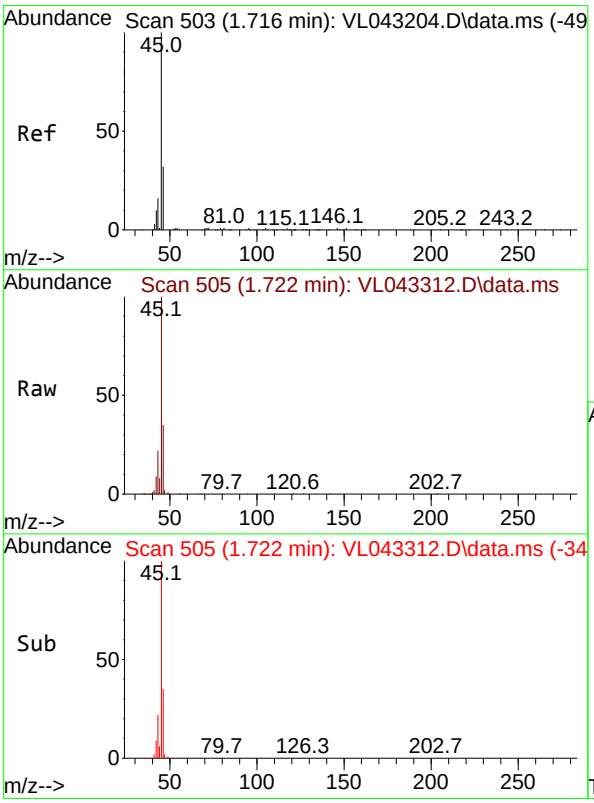
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.077 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion:101 Resp: 1125

Ion	Ratio	Lower	Upper
101	100		
151	63.0	59.2	88.8

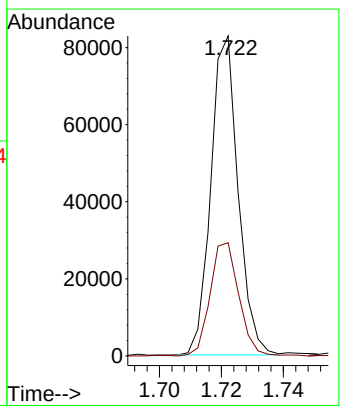


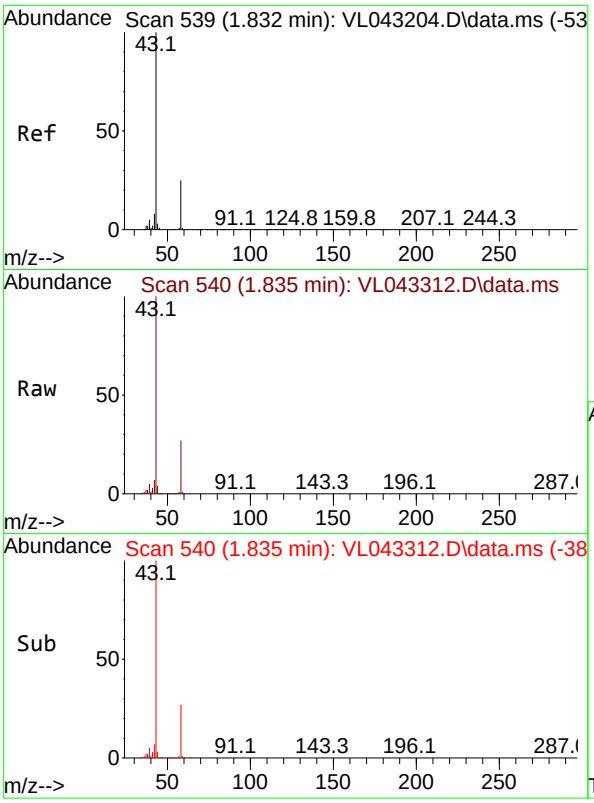


#13
Ethanol
Concen: 17.797 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 45 Resp: 50530

Ion	Ratio	Lower	Upper
45	100		
46	38.1	15.0	59.8



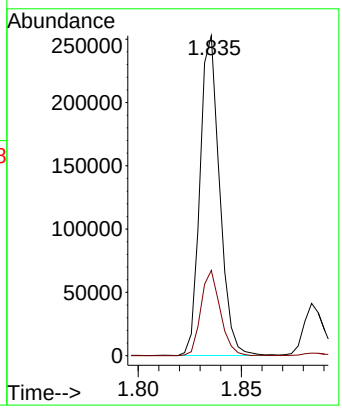


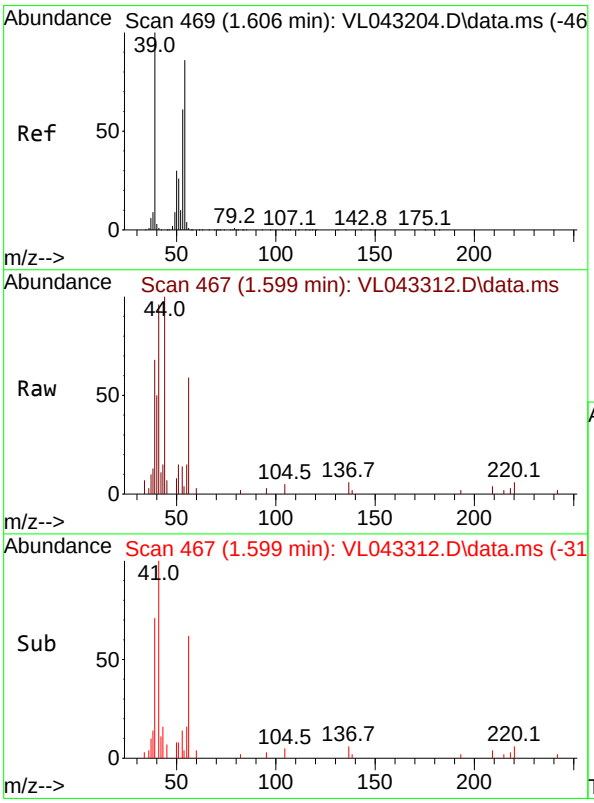
#15
Acetone
Concen: 8.755 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 43 Resp: 166746

Ion	Ratio	Lower	Upper
43	100		
58	26.3	20.7	31.1

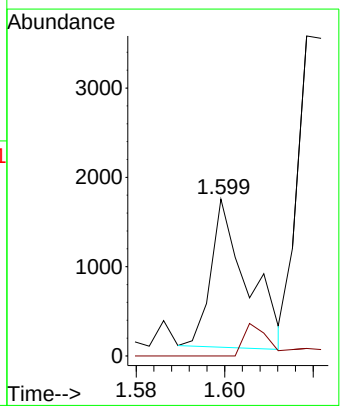


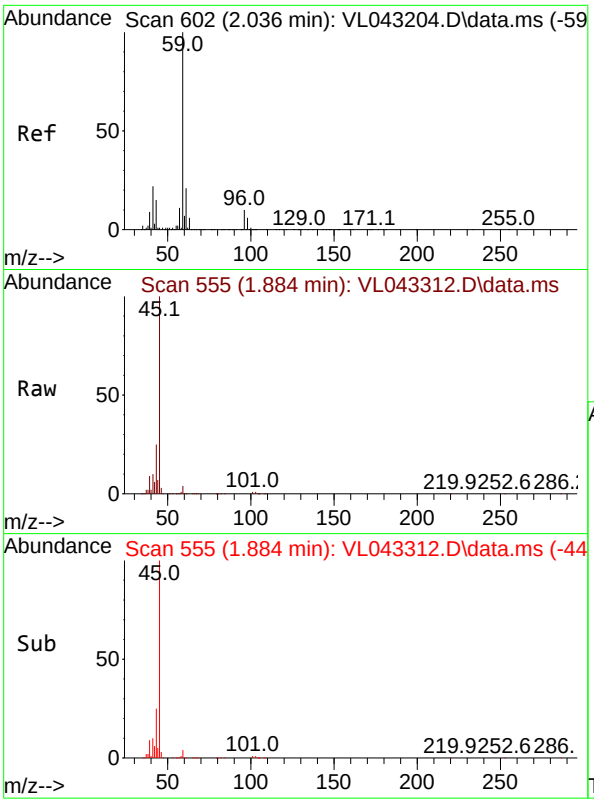


#16
1,3-Butadiene
Concen: 0.111 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 39 Resp: 943

Ion	Ratio	Lower	Upper
39	100		
54	21.5	59.4	89.2#



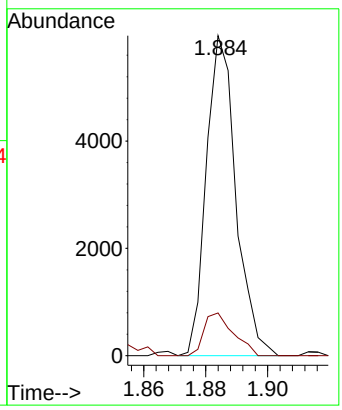


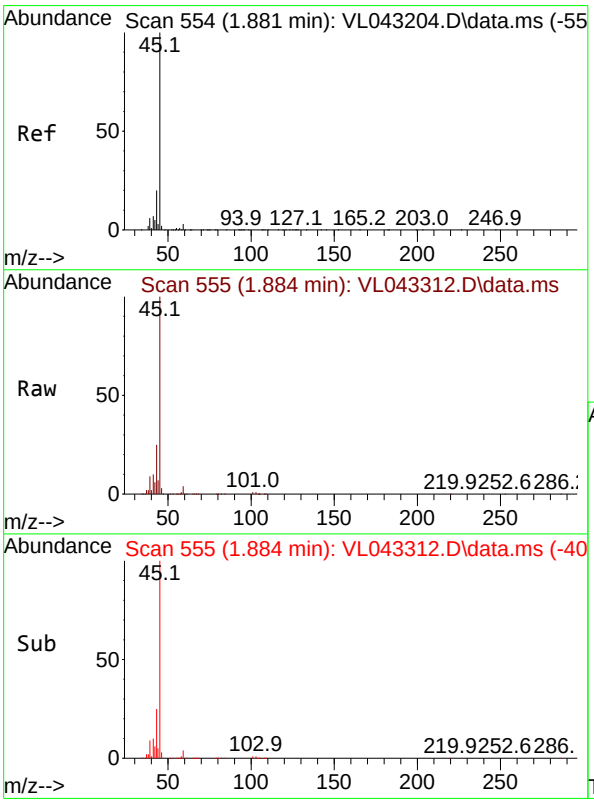
#17
tert-Butyl alcohol
Concen: 0.158 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.152 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 59 Resp: 3955

Ion	Ratio	Lower	Upper
59	100		
57	13.3	9.0	13.4

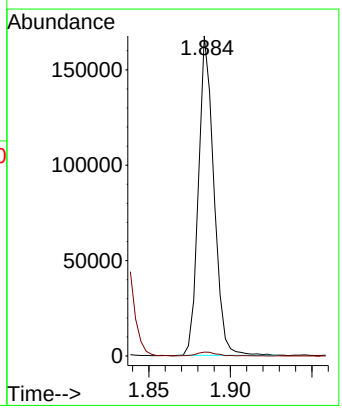


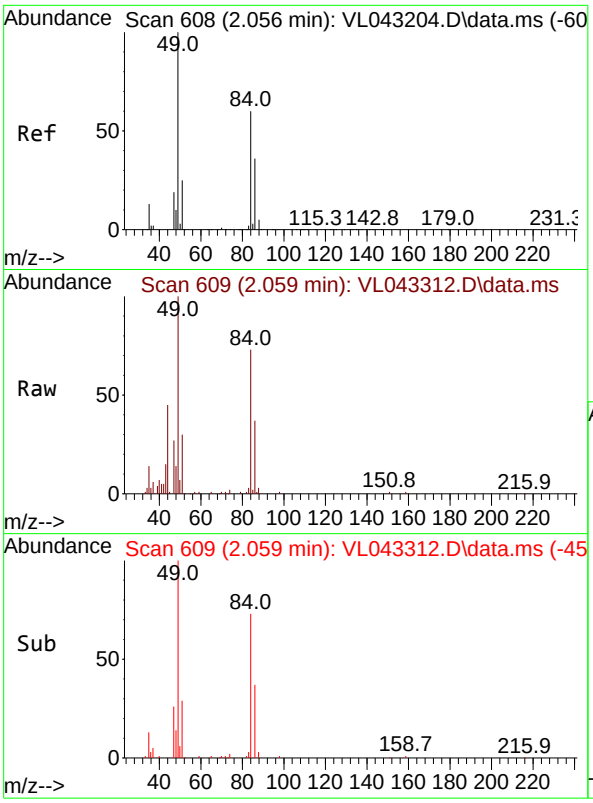


#19
Isopropyl Alcohol
Concen: 10.217 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 45 Resp: 109957

Ion	Ratio	Lower	Upper
45	100		
58	39.9	31.3	46.9



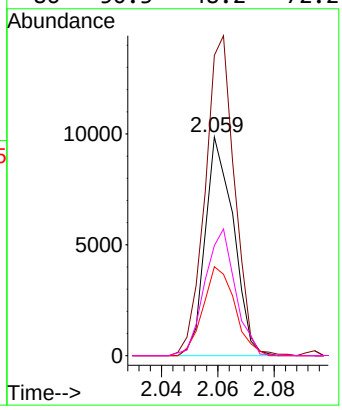


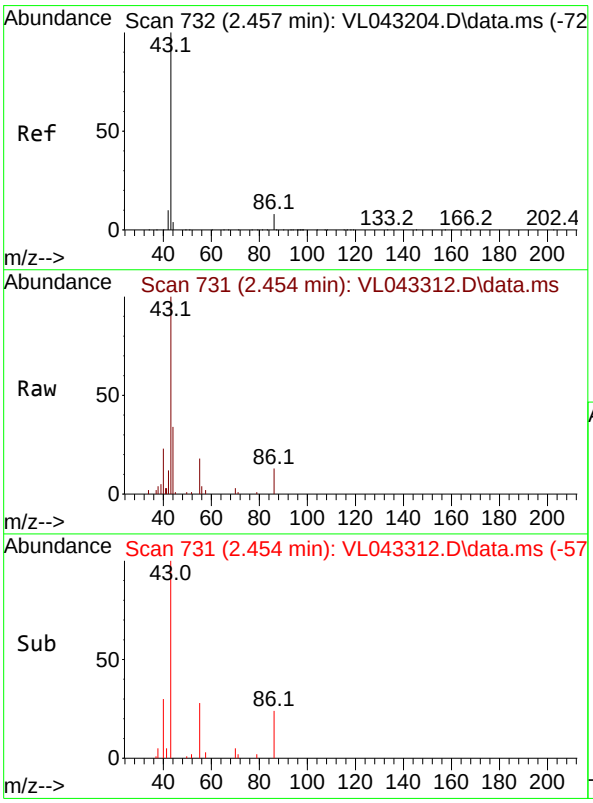
#20
Methylene Chloride
Concen: 0.479 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 84 Resp: 6881

Ion	Ratio	Lower	Upper
84	100		
49	136.6	132.9	199.3
51	40.7	34.8	52.2
86	50.3	48.2	72.2

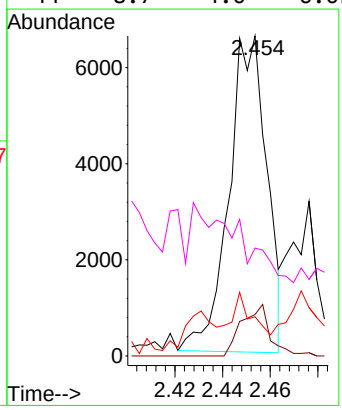


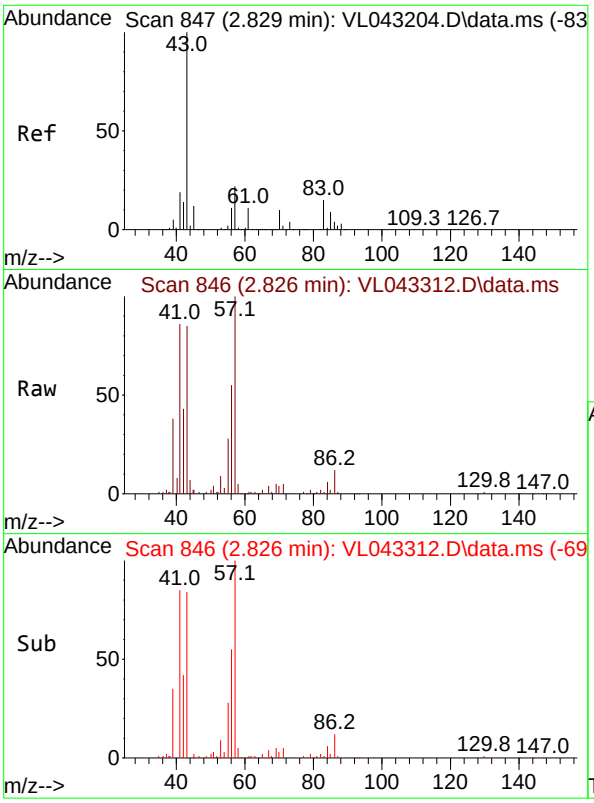


#23
Vinyl Acetate
Concen: 0.316 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 43 Resp: 7277

Ion	Ratio	Lower	Upper
43	100		
86	13.2	6.2	9.2#
42	9.7	8.0	12.0
44	8.7	4.0	6.0#



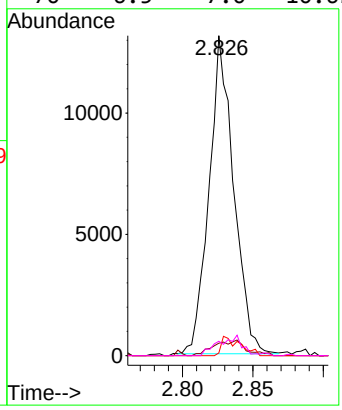


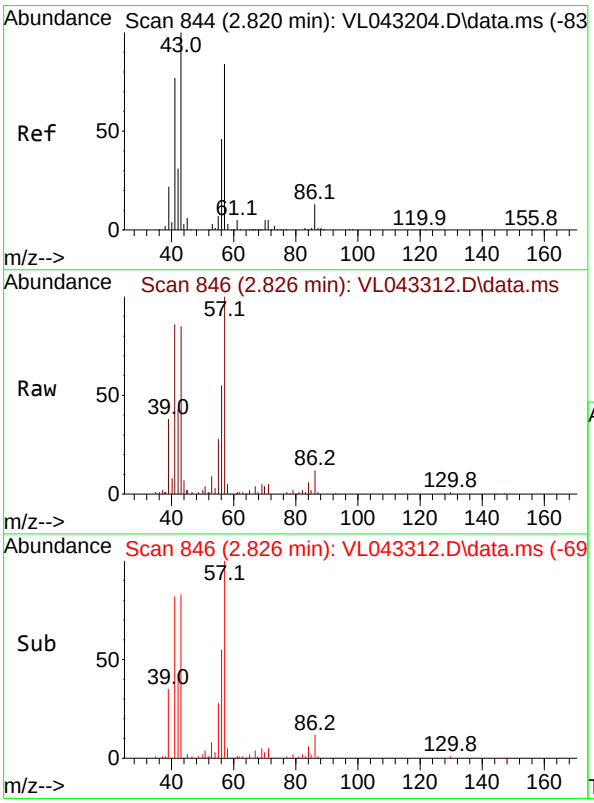
#25
Ethyl Acetate
Concen: 0.389 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 43 Resp: 15972

Ion	Ratio	Lower	Upper
43	100		
45	6.7	8.1	12.1#
61	4.6	7.0	10.4#
70	6.5	7.0	10.6#

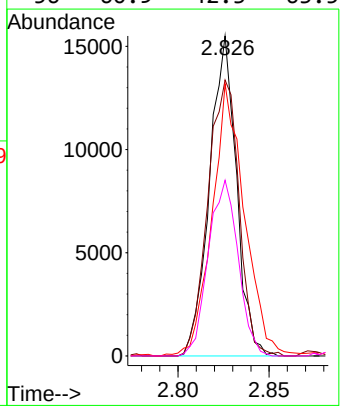


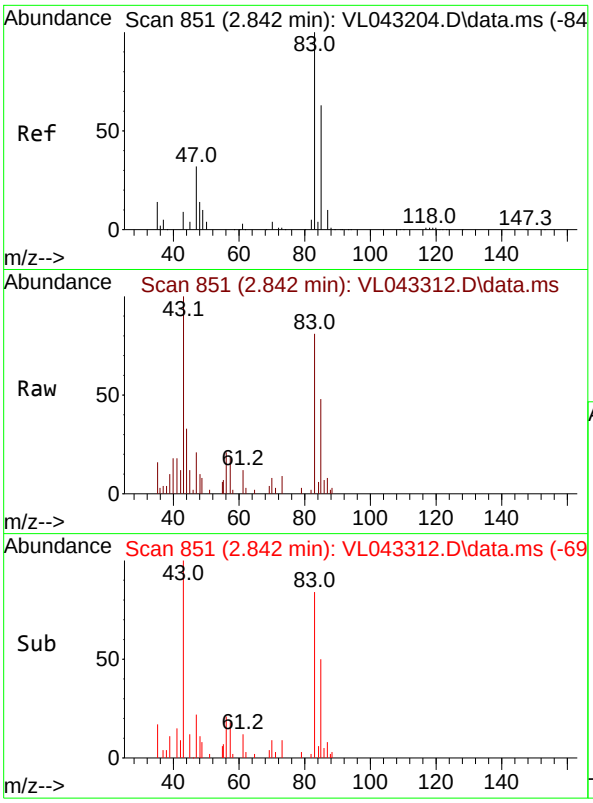


#26
Hexane
Concen: 0.884 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 57 Resp: 15912

Ion	Ratio	Lower	Upper
57	100		
41	100.0	74.6	111.8
43	104.4	179.0	268.4#
56	60.9	42.3	63.5



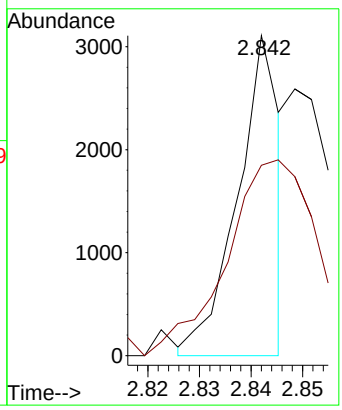


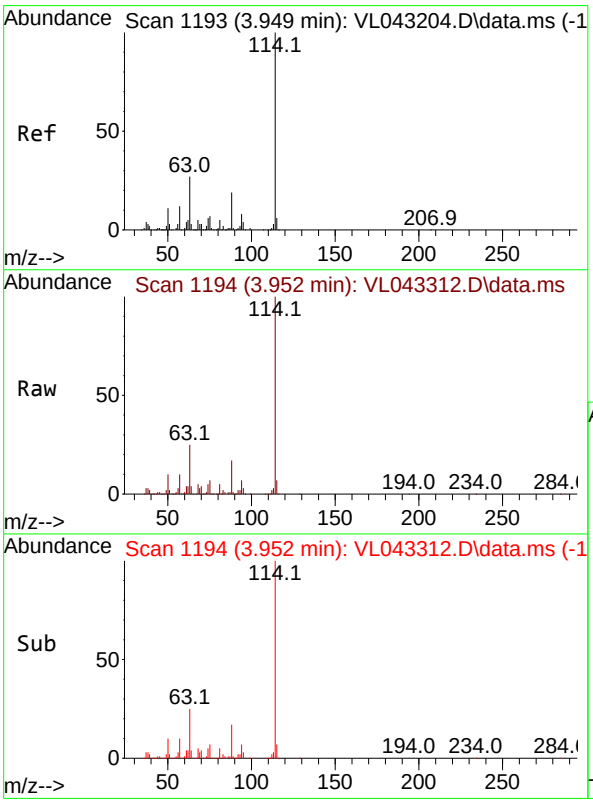
#29
Chloroform
Concen: 0.069 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 83 Resp: 1770

Ion	Ratio	Lower	Upper
83	100		
85	50.8	50.5	75.7

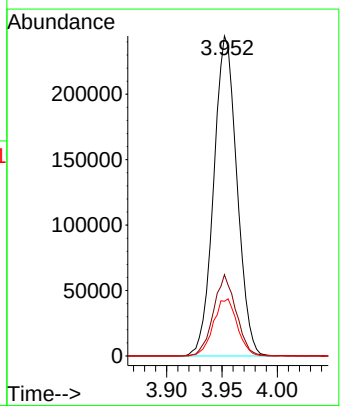


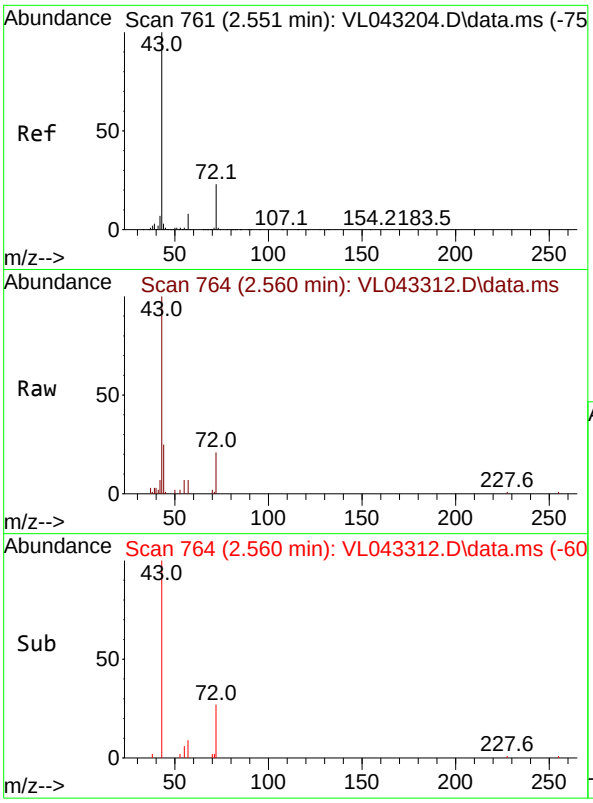


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion:114 Resp: 357699

Ion	Ratio	Lower	Upper
114	100		
63	24.7	21.0	31.6
88	18.3	14.9	22.3



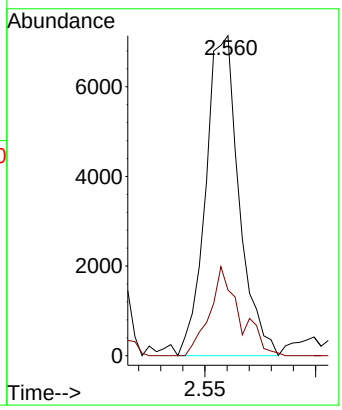


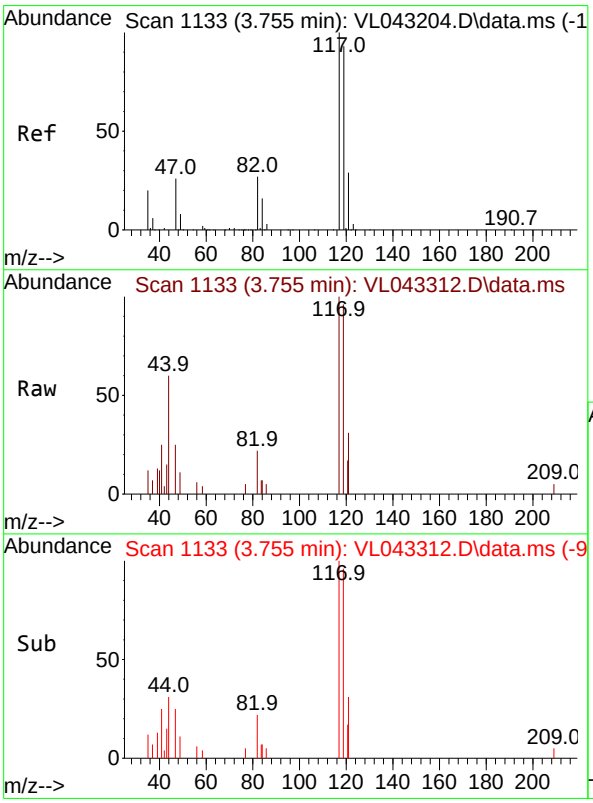
#34
2-Butanone
Concen: 0.296 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.009 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 43 Resp: 7477

Ion	Ratio	Lower	Upper
43	100		
72	25.3	18.1	27.1

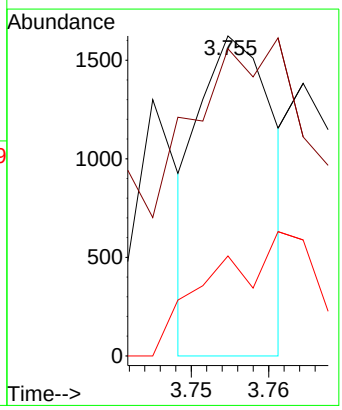


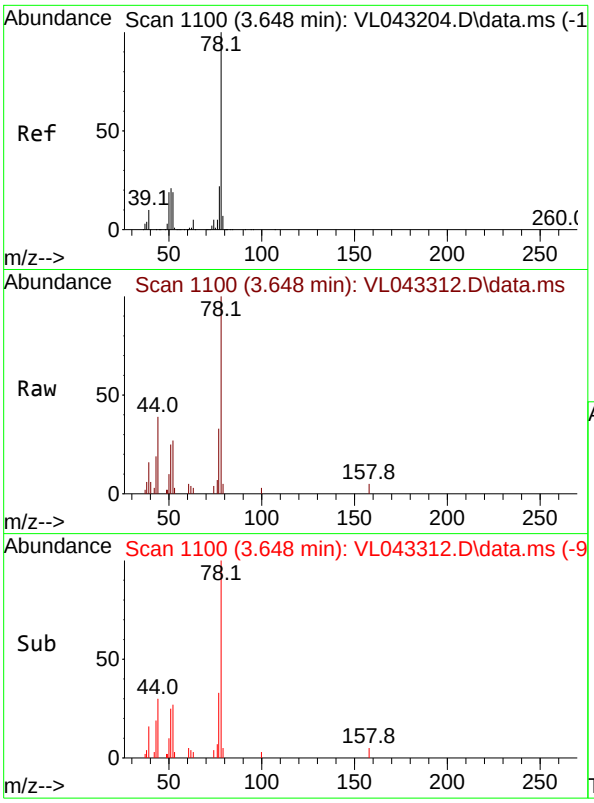


#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion:117 Resp: 1086

Ion	Ratio	Lower	Upper
117	100		
119	49.7	74.6	112.0#
121	32.1	23.2	34.8



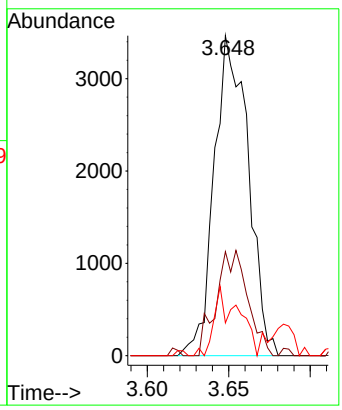


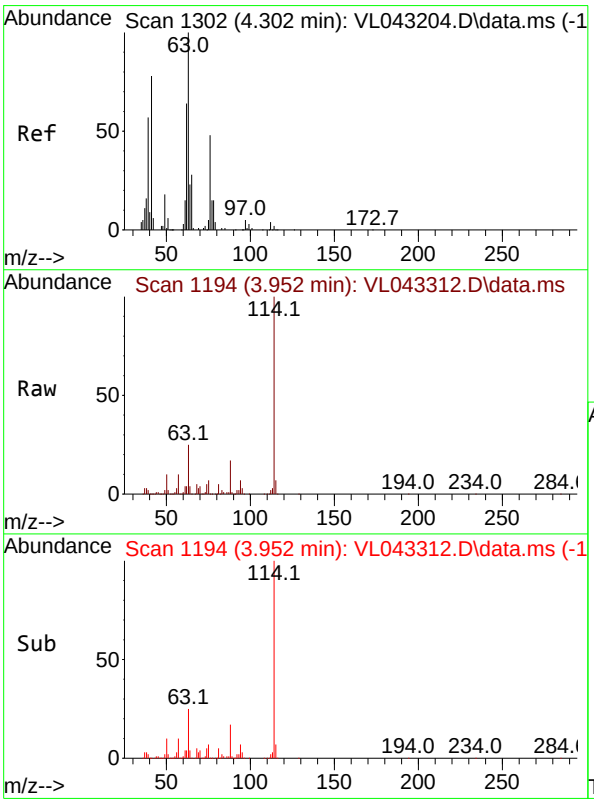
#36
Benzene
Concen: 0.147 ppbv
RT: 3.648 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 78 Resp: 5022

Ion	Ratio	Lower	Upper
78	100		
77	32.5	17.5	26.3#
50	8.7	15.5	23.3#

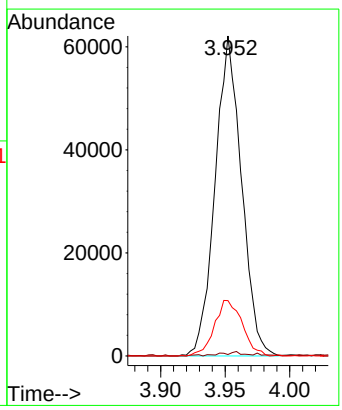


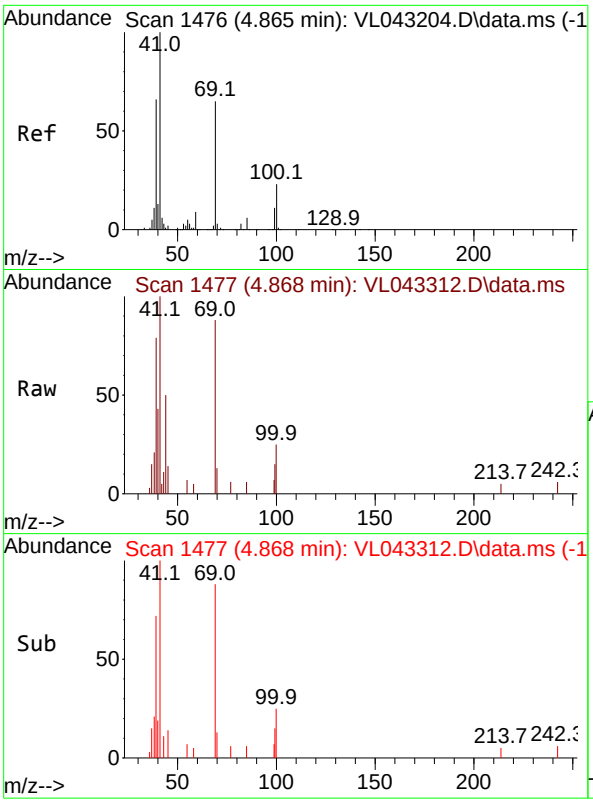


#39
1,2-Dichloropropane
Concen: 7.037 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.350 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 63 Resp: 88229

Ion	Ratio	Lower	Upper
63	100		
41	0.4	62.6	93.8#
62	17.3	51.0	76.6#



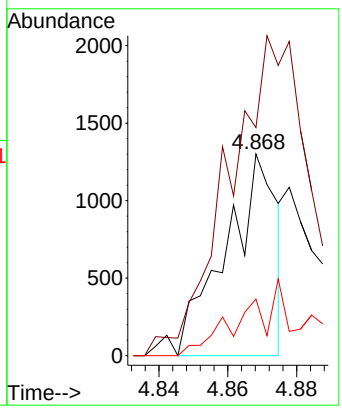


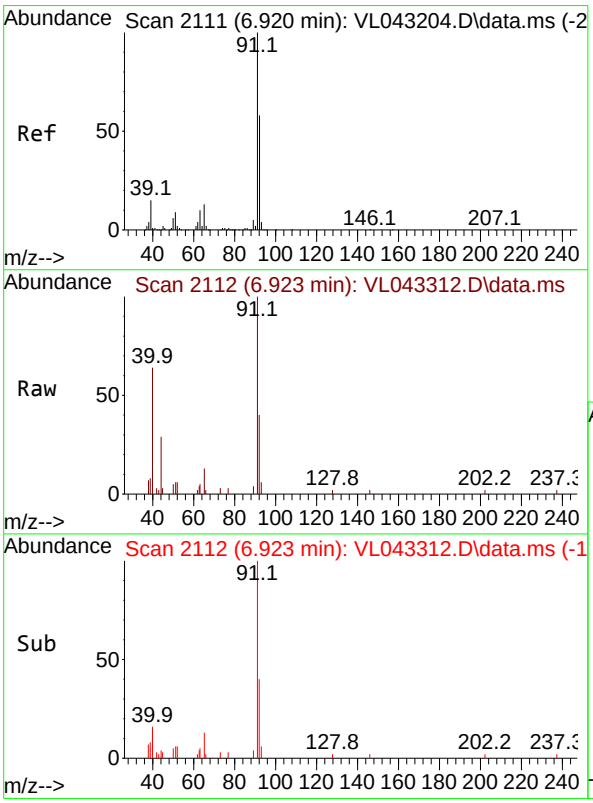
#43
Methyl Methacrylate
Concen: 0.073 ppbv
RT: 4.868 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 69 Resp: 1326

Ion	Ratio	Lower	Upper
69	100		
41	0.0	126.7	190.1#
100	0.0	28.6	43.0#

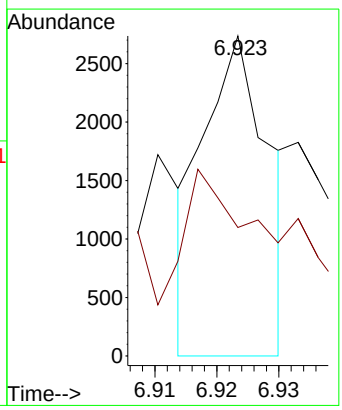


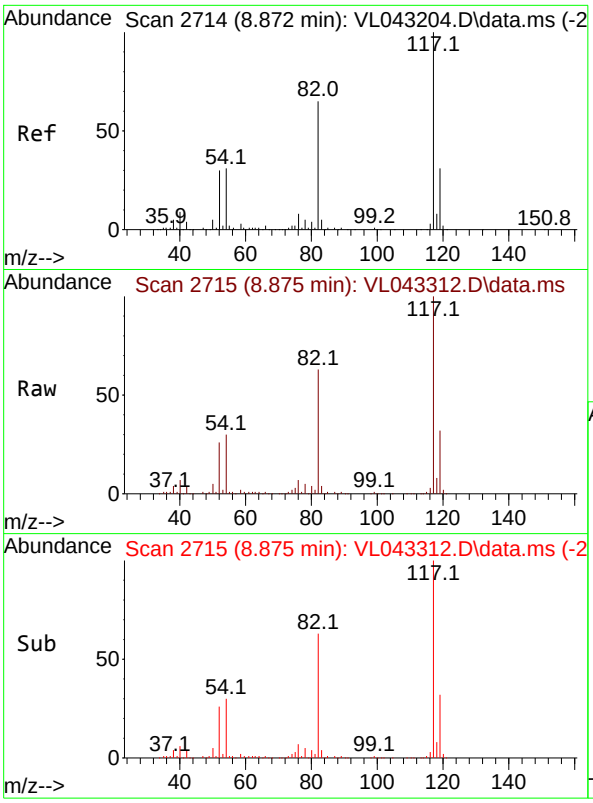


#53
Toluene
Concen: 0.049 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 91 Resp: 2002

Ion	Ratio	Lower	Upper
91	100		
92	132.6	47.4	71.0#



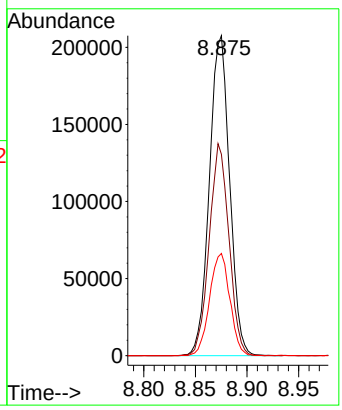


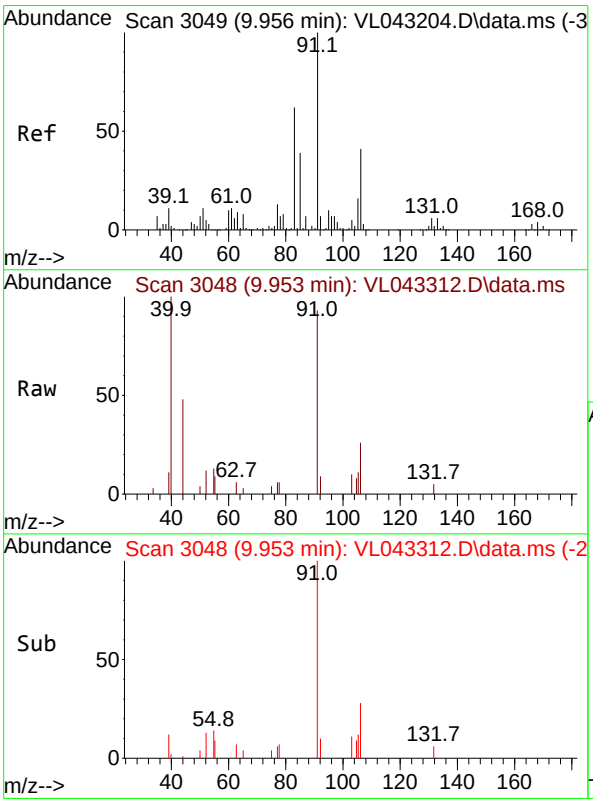
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion:117 Resp: 281919

Ion	Ratio	Lower	Upper
117	100		
82	64.8	56.1	84.1
119	32.1	25.0	37.6

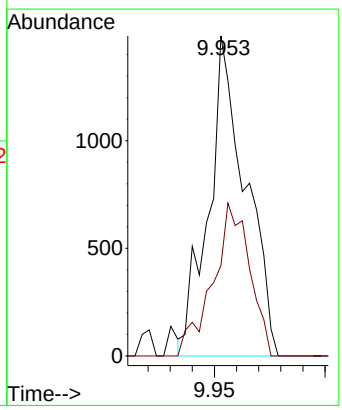


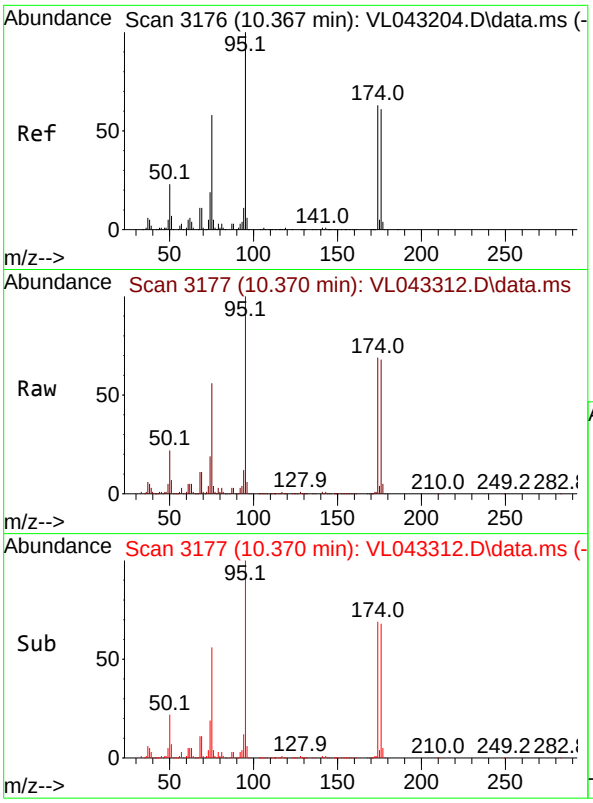


#60
o-Xylene
Concen: 0.040 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.004 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Tgt Ion: 91 Resp: 1733

Ion	Ratio	Lower	Upper
91	100		
106	47.3	20.9	62.8



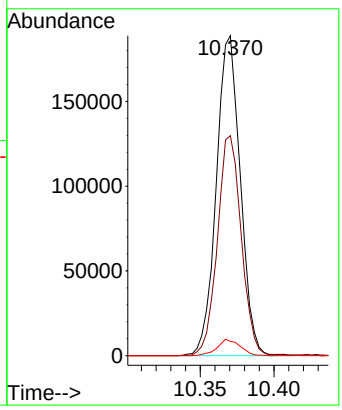


#68
1-Bromo-4-Fluorobenzene
Concen: 10.335 ppbv
RT: 10.370 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL043312.D
Acq: 08 Dec 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
9B-IA-1

Tgt Ion: 95 Resp: 213574

Ion	Ratio	Lower	Upper
95	100		
174	68.6	50.2	75.2
175	4.9	4.1	6.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043313.D
Acq On : 08 Dec 2025 14:29
Operator : SY/MD
Sample : Q3799-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Quant Time: Dec 09 00:11:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

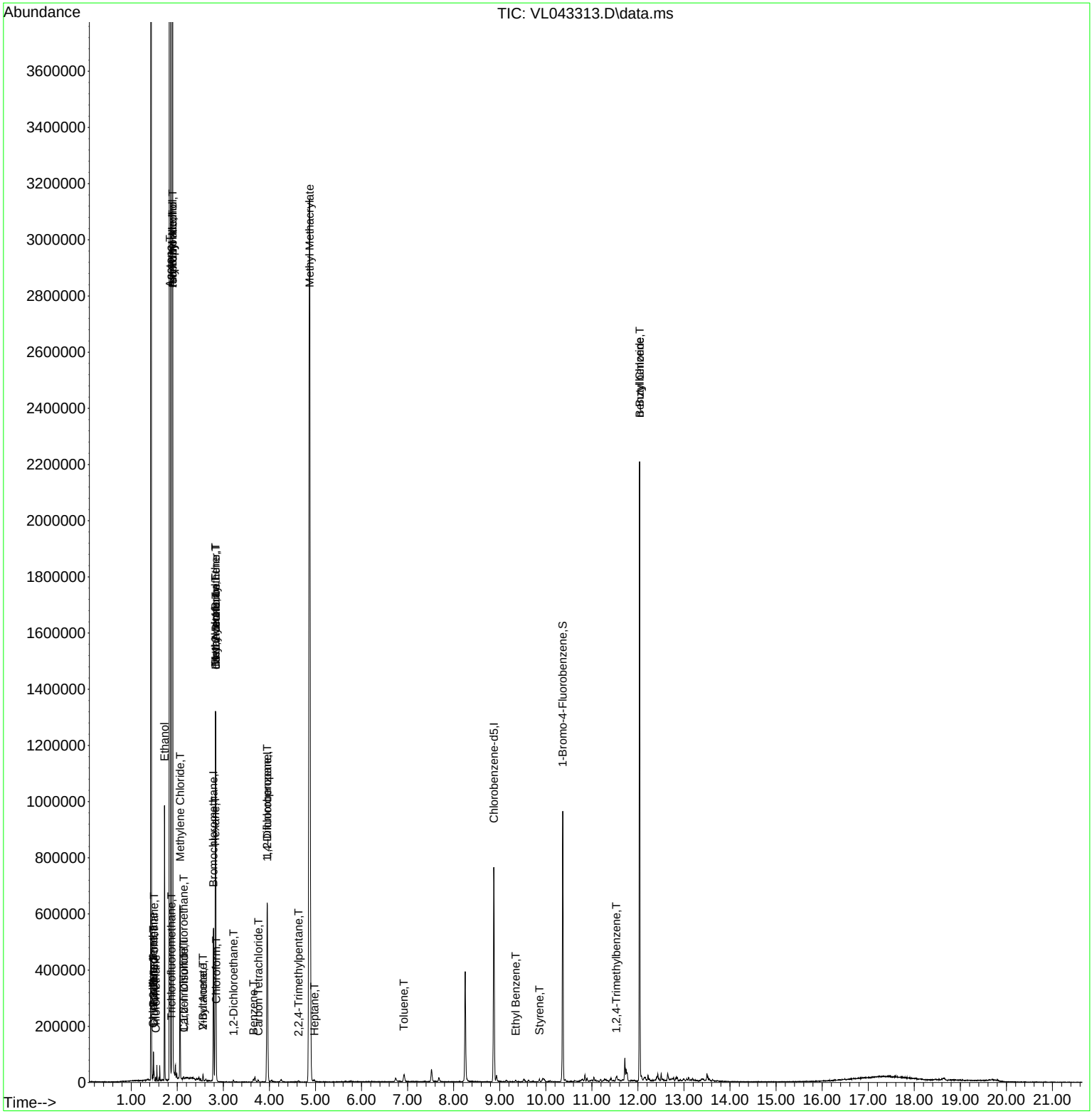
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	142316	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.955	114	361997	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	299956	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	227860	10.363	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.495	85	8224	0.410	ppbv		96
3) Chlorodifluoromethane	1.476	51	8001	0.405	ppbv	#	87
4) Chloromethane	1.531	50	3421	0.456	ppbv		95
9) Propene	1.482	41	14885	1.776	ppbv	#	86
10) Heptane	4.978	43	813	0.033	ppbv	#	23
11) Trichlorofluoromethane	1.874	101	4374	0.225	ppbv		97
12) 1,1,2-Trichlorotrifluo...	2.140	101	1155	0.076	ppbv		99
13) Ethanol	1.722	45	357639	121.331	ppbv		98
15) Acetone	1.842	43	5690107	287.779	ppbv	#	17
16) 1,3-Butadiene	1.482	39	13670	1.551	ppbv	#	17
17) tert-Butyl alcohol	1.897	59	465772	17.946	ppbv	#	91
19) Isopropyl Alcohol	1.897	45	4546385	406.914	ppbv	#	36
20) Methylene Chloride	2.062	84	89672	15.850	ppbv		92
21) Allyl Chloride	1.897	41	990499	74.458	ppbv	#	77
23) Vinyl Acetate	2.557	43	14010	0.587	ppbv	#	92
25) Ethyl Acetate	2.832	43	839316	19.682	ppbv	#	92
26) Hexane	2.822	57	41166	2.202	ppbv	#	1
27) Carbon Disulfide	2.143	76	706	0.037	ppbv	#	53
28) Methyl tert-Butyl Ether	2.829	73	34658	3.776	ppbv	#	1
29) Chloroform	2.848	83	1442	0.054	ppbv		90
31) cis-1,2-Dichloroethene	2.832	61	101121	5.441	ppbv	#	26
34) 2-Butanone	2.557	43	14010	0.548	ppbv		99
35) Carbon Tetrachloride	3.761	117	2513	0.091	ppbv	#	84
36) Benzene	3.654	78	5665	0.163	ppbv		98
37) 1,2-Dichloroethane	3.221	62	966	0.048	ppbv		98
39) 1,2-Dichloropropane	3.952	63	92441	7.286	ppbv	#	25
41) Tetrahydrofuran	2.829	42	80551	5.708	ppbv	#	44
43) Methyl Methacrylate	4.871	69	1199833	65.204	ppbv		96
44) 2,2,4-Trimethylpentane	4.635	57	2206	0.037	ppbv	#	41
53) Toluene	6.920	91	18366	0.447	ppbv		100
58) Ethyl Benzene	9.348	91	2583	0.045	ppbv		90
61) Styrene	9.862	104	2173	0.107	ppbv	#	89
66) Benzyl Chloride	12.037	91	98244	13.104	ppbv	#	66
70) n-Butylbenzene	12.037	91	98244	1.159	ppbv	#	66
74) 1,2,4-Trimethylbenzene	11.529	105	2784	0.054	ppbv	#	71

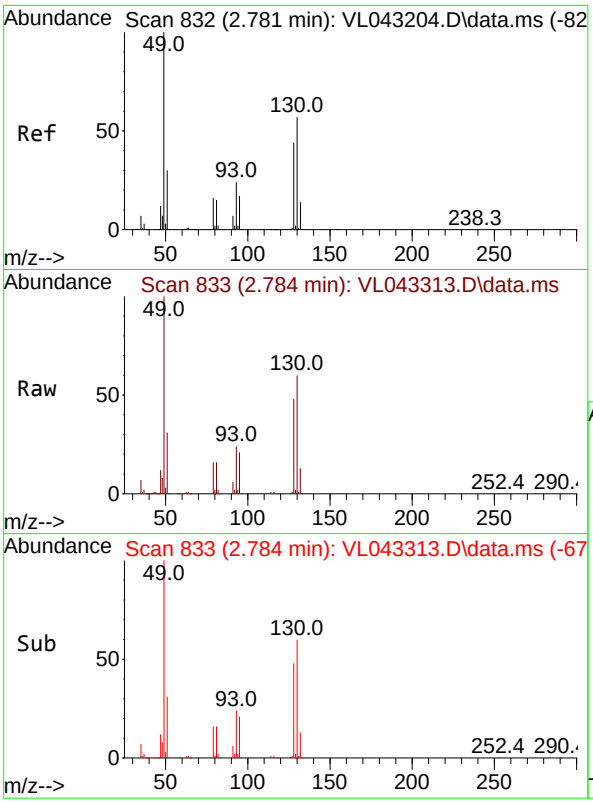
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043313.D
Acq On : 08 Dec 2025 14:29
Operator : SY/MD
Sample : Q3799-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Quant Time: Dec 09 00:11:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



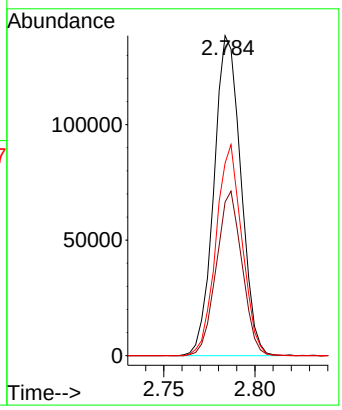


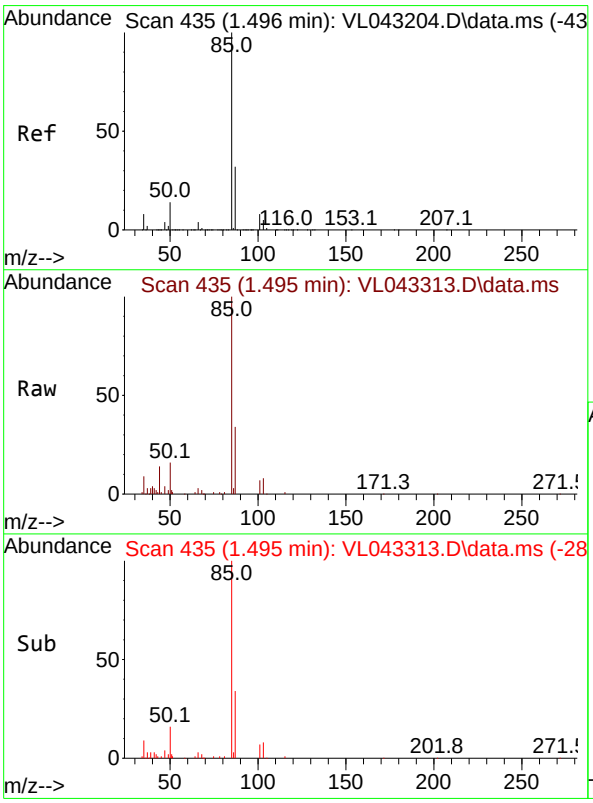
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 49 Resp: 142316

Ion	Ratio	Lower	Upper
49	100		
128	49.2	23.0	69.0
130	63.6	29.9	89.7

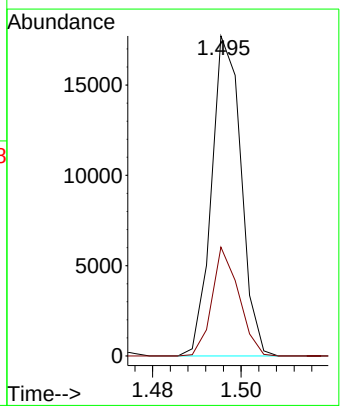


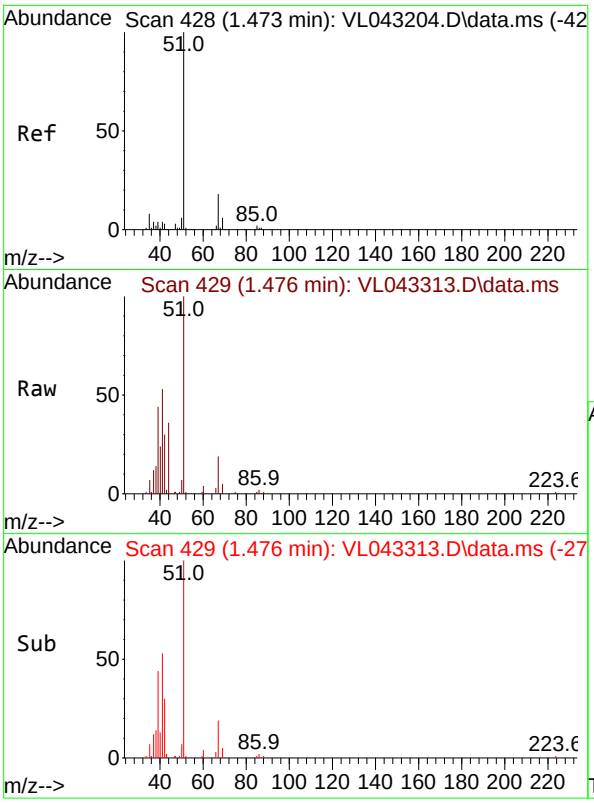


#2
Dichlorodifluoromethane
Concen: 0.410 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 85 Resp: 8224

Ion	Ratio	Lower	Upper
85	100		
87	34.0	25.4	38.2



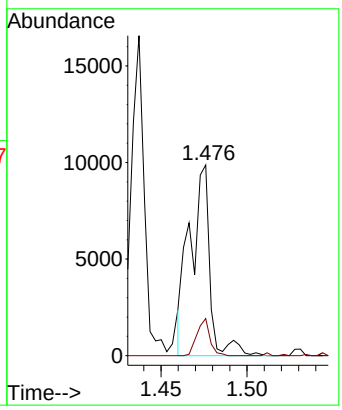


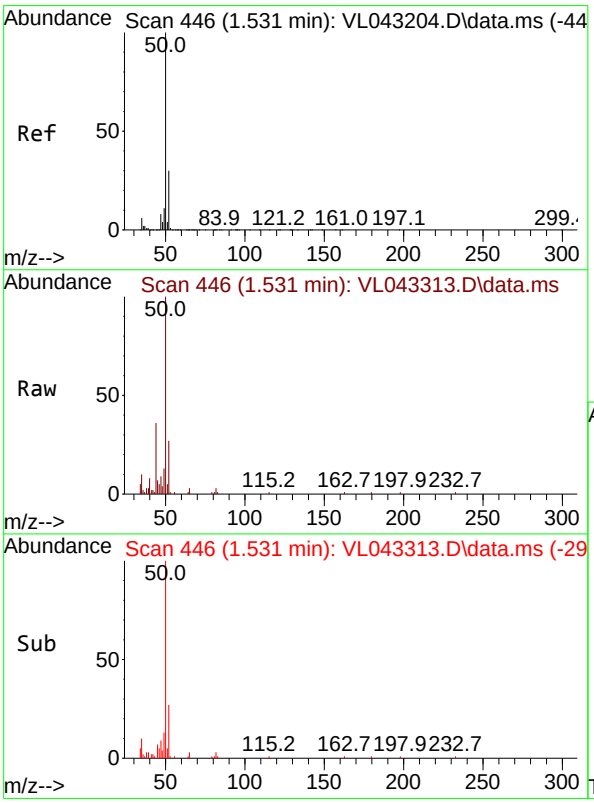
#3
Chlorodifluoromethane
Concen: 0.405 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 51 Resp: 8001

Ion	Ratio	Lower	Upper
51	100		
67	12.6	14.9	22.3#

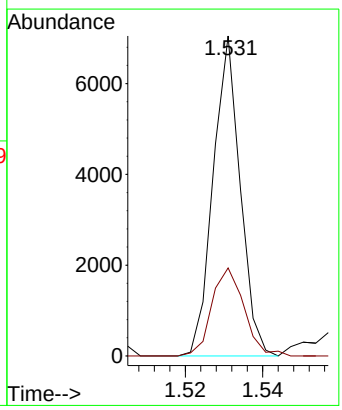


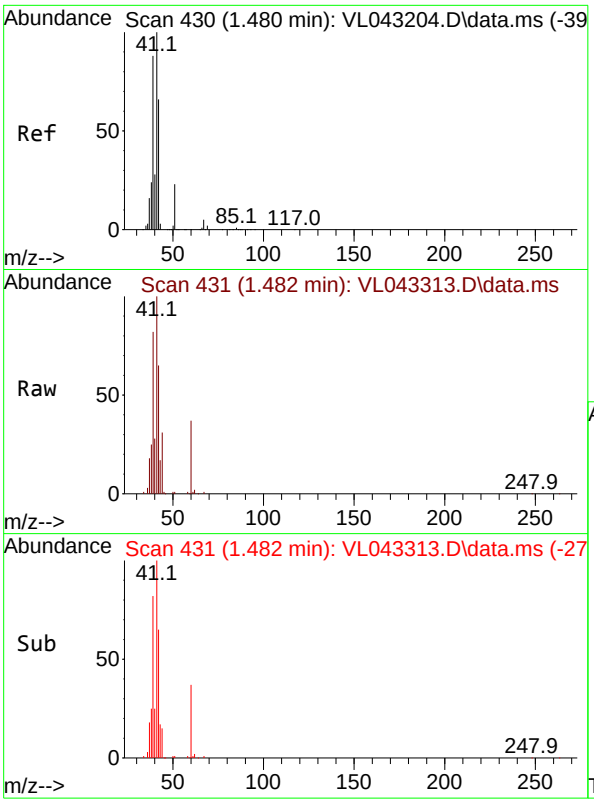


#4
Chloromethane
Concen: 0.456 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 50 Resp: 3421

Ion	Ratio	Lower	Upper
50	100		
52	27.5	24.1	36.1



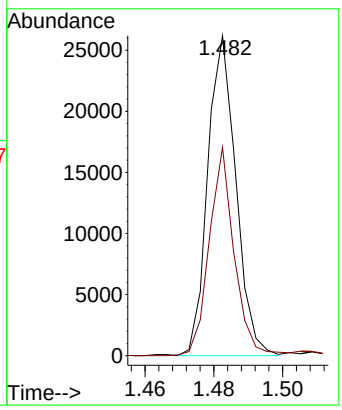


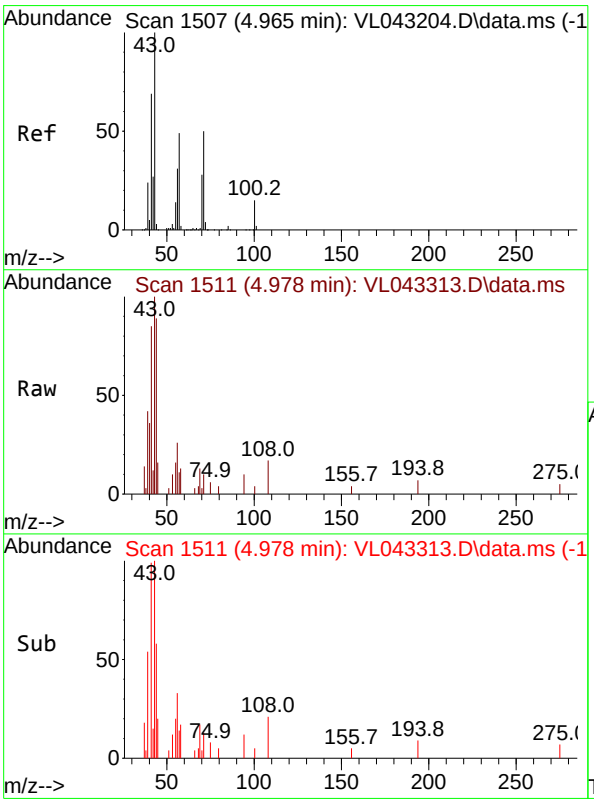
#9
Propene
Concen: 1.776 ppbv
RT: 1.482 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 41 Resp: 14885

Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5#

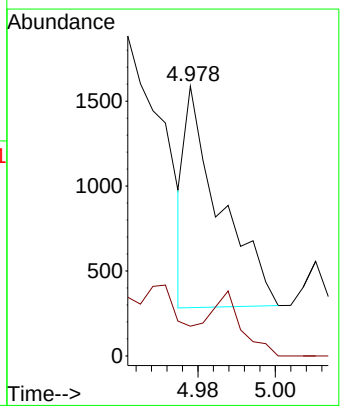


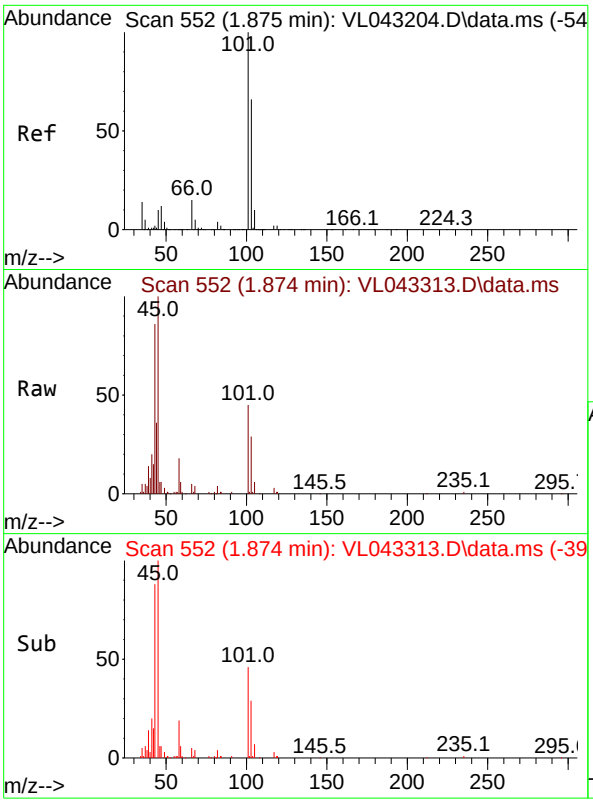


#10
Heptane
Concen: 0.033 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.013 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 43 Resp: 813

Ion	Ratio	Lower	Upper
43	100		
57	102.3	39.7	59.5#



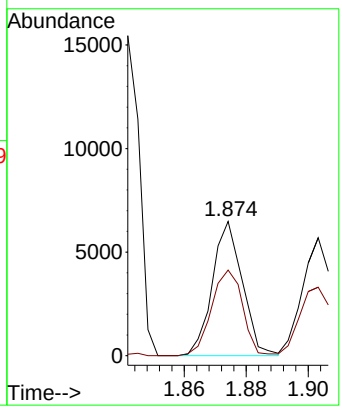


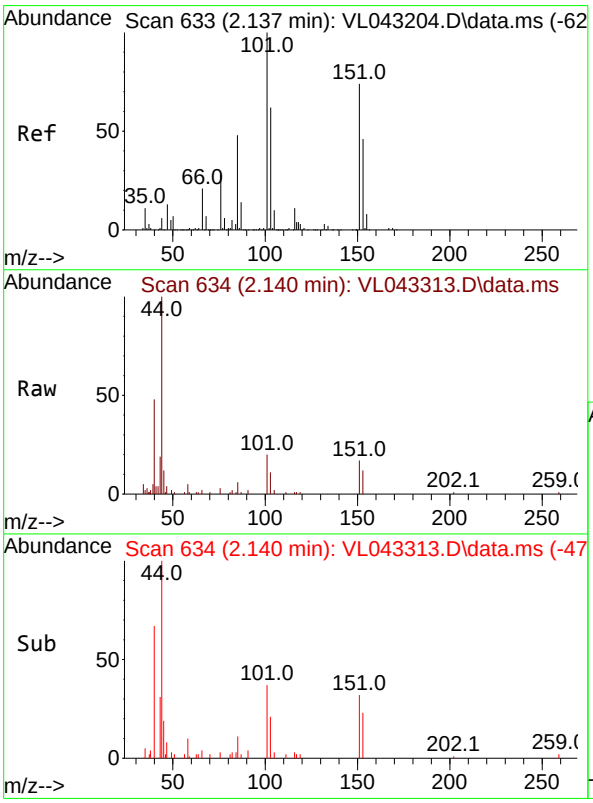
#11
Trichlorofluoromethane
Concen: 0.225 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion:101 Resp: 4374

Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.6	79.0

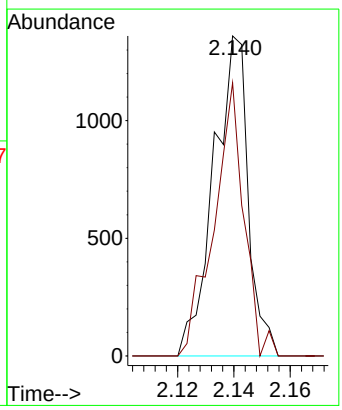


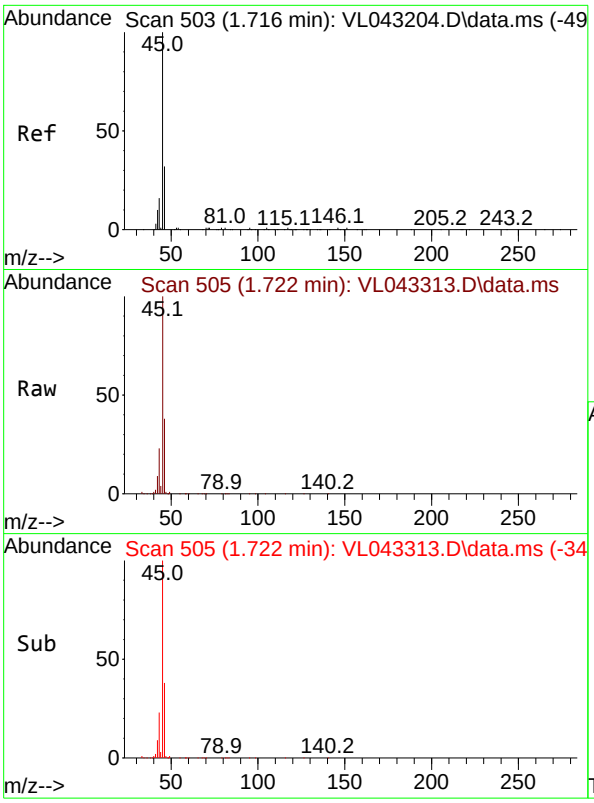


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.076 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion:101 Resp: 1155

Ion	Ratio	Lower	Upper
101	100		
151	74.5	59.2	88.8



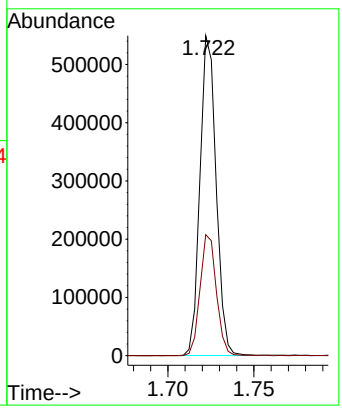


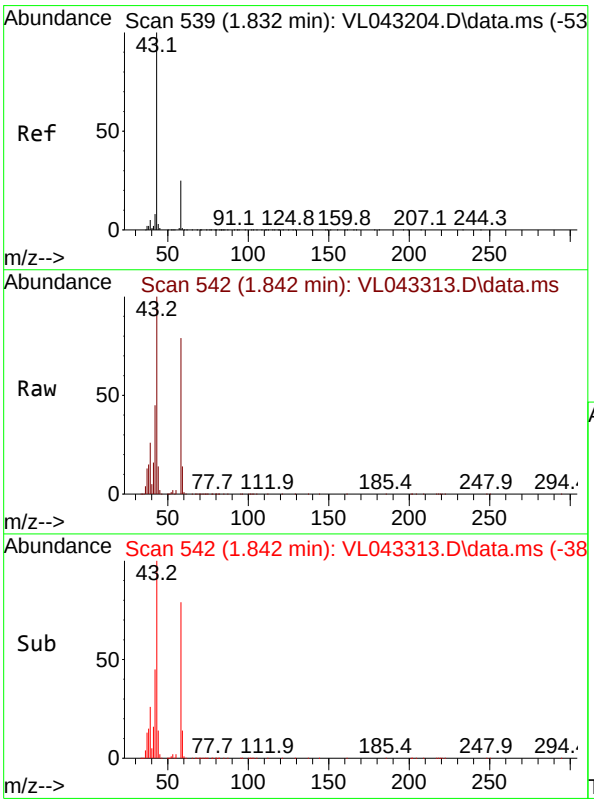
#13
Ethanol
Concen: 121.331 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 45 Resp: 357639

Ion	Ratio	Lower	Upper
45	100		
46	38.4	15.0	59.8

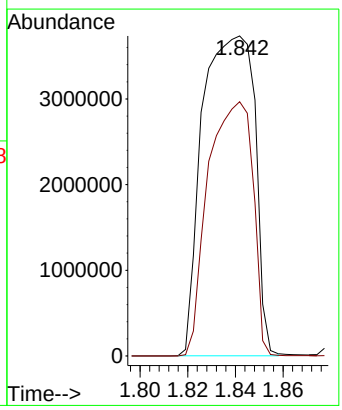


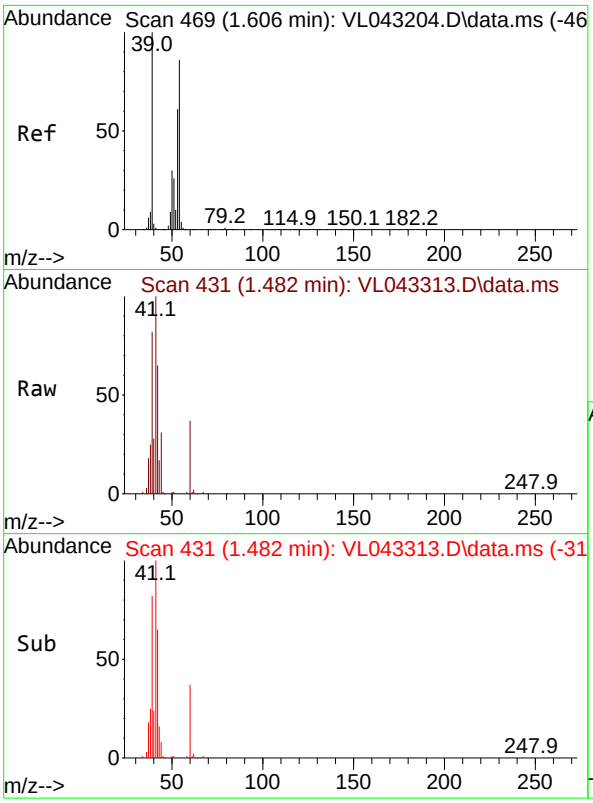


#15
Acetone
Concen: 287.779 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.009 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 43 Resp: 5690107

Ion	Ratio	Lower	Upper
43	100		
58	68.0	20.7	31.1#



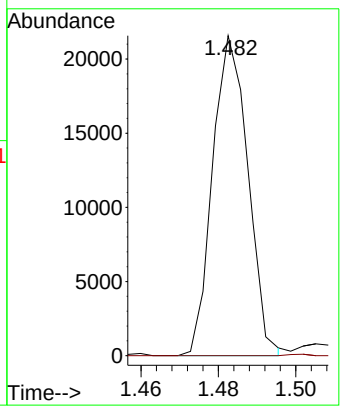


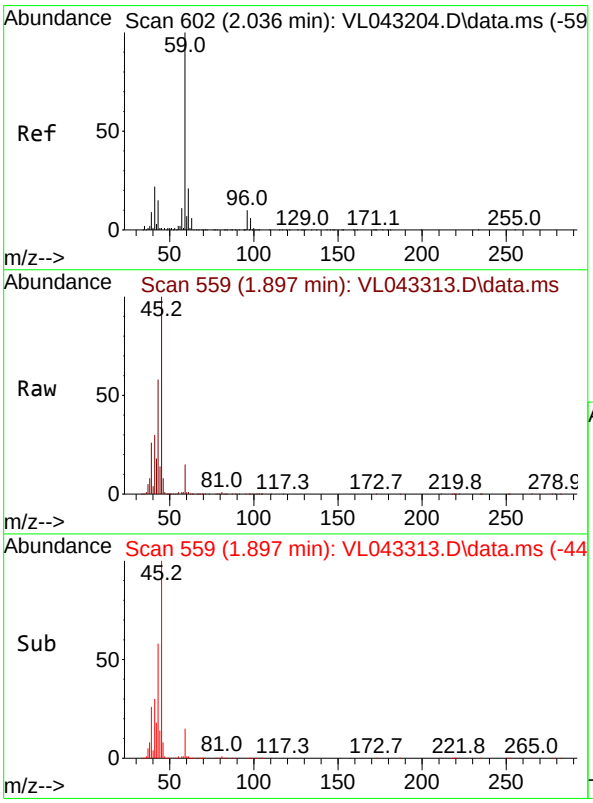
#16
1,3-Butadiene
Concen: 1.551 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.123 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 39 Resp: 13670

Ion	Ratio	Lower	Upper
39	100		
54	4.2	59.4	89.2#

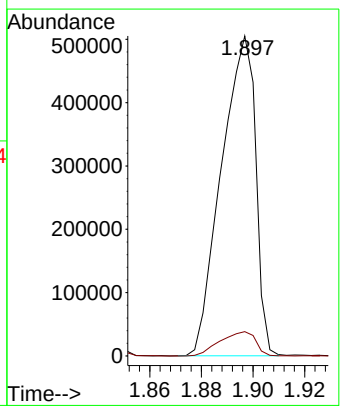


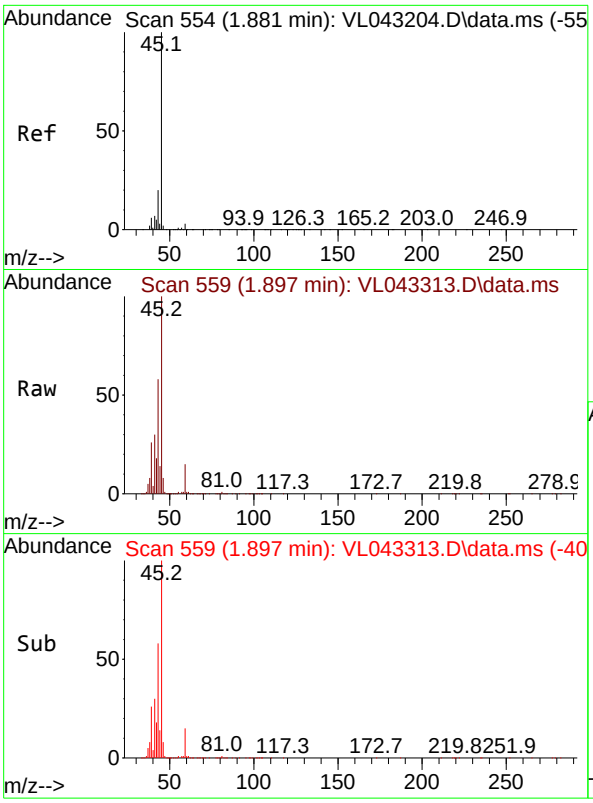


#17
tert-Butyl alcohol
Concen: 17.946 ppbv
RT: 1.897 min Scan# 559
Delta R.T. -0.140 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 59 Resp: 465772

Ion	Ratio	Lower	Upper
59	100		
57	7.9	9.0	13.4#



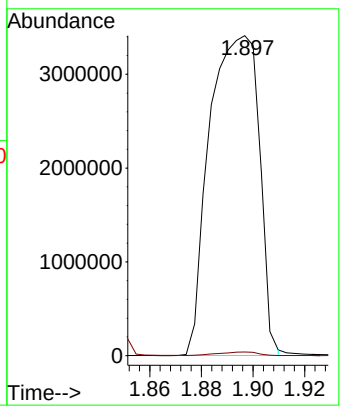


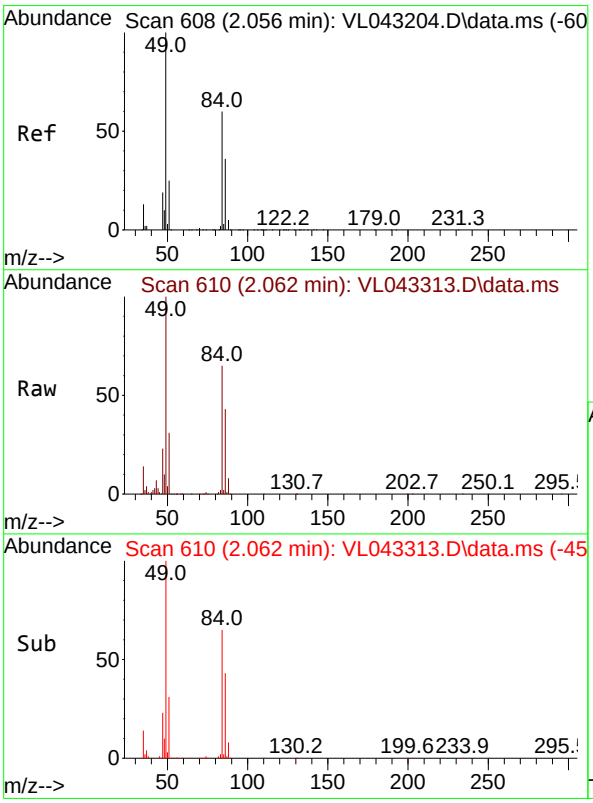
#19
Isopropyl Alcohol
Concen: 406.914 ppbv
RT: 1.897 min Scan# 5
Delta R.T. 0.016 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 45 Resp: 4546385

Ion	Ratio	Lower	Upper
45	100		
58	0.0	31.3	46.9#

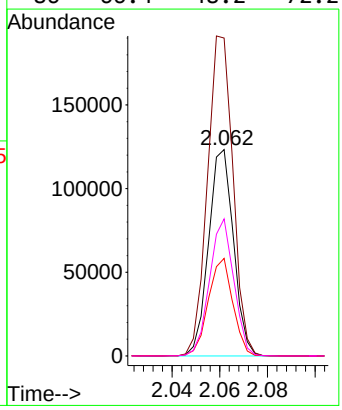


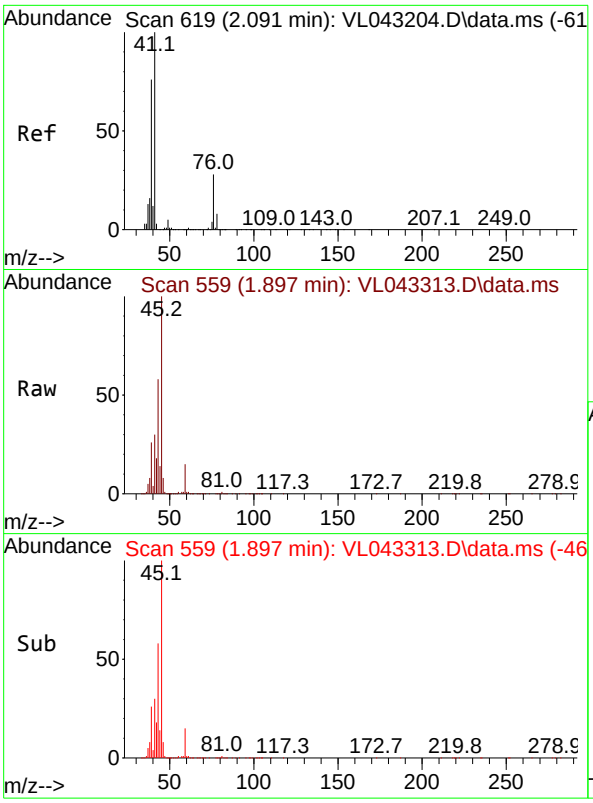


#20
Methylene Chloride
Concen: 15.850 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 84 Resp: 89672

Ion	Ratio	Lower	Upper
84	100		
49	154.0	132.9	199.3
51	47.3	34.8	52.2
86	66.4	48.2	72.2



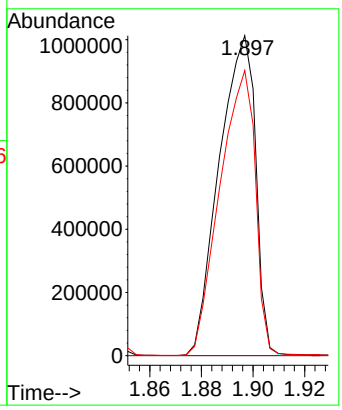


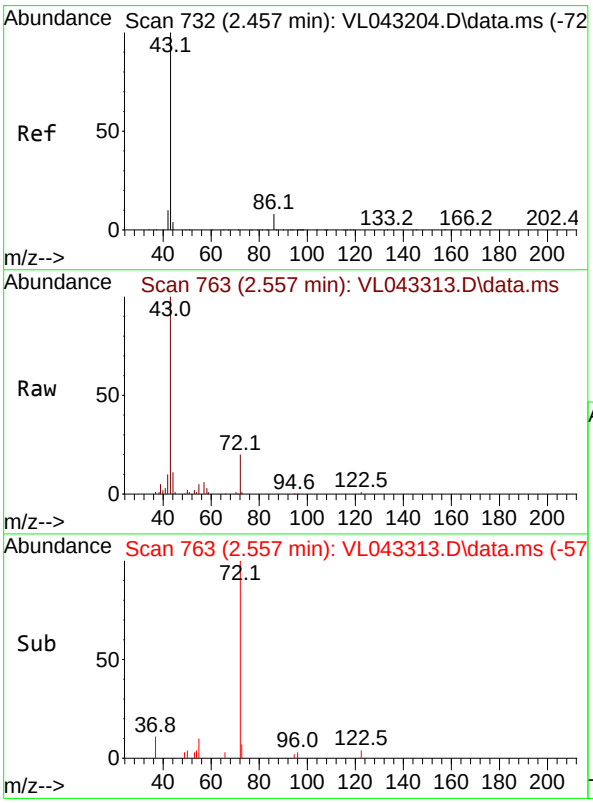
#21
Allyl Chloride
Concen: 74.458 ppbv
RT: 1.897 min Scan# 5
Delta R.T. -0.195 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 41 Resp: 990499

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.1	33.1#
39	87.1	61.0	91.4

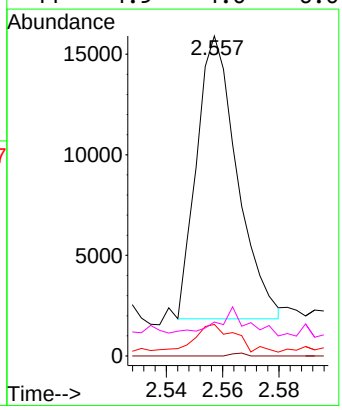


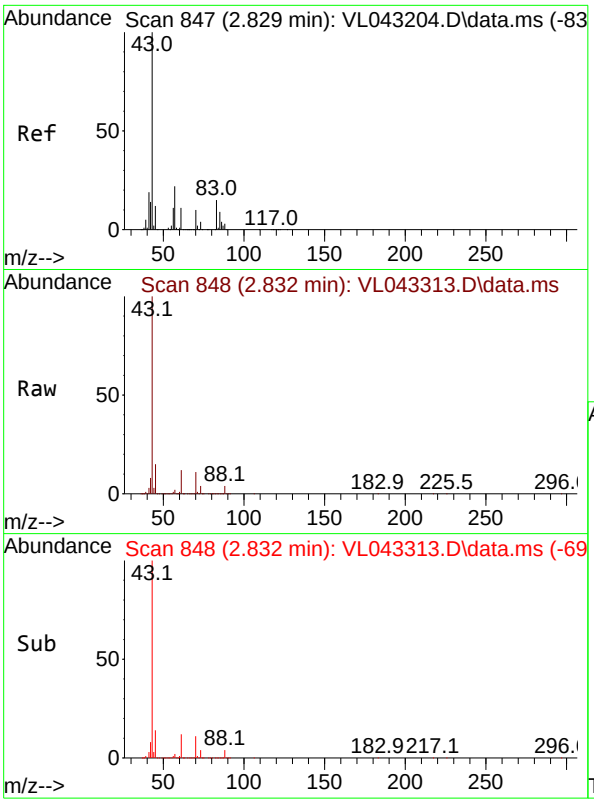


#23
Vinyl Acetate
Concen: 0.587 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.100 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 43 Resp: 14010

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	9.8	8.0	12.0
44	4.9	4.0	6.0



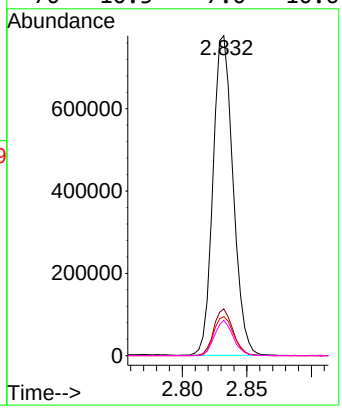


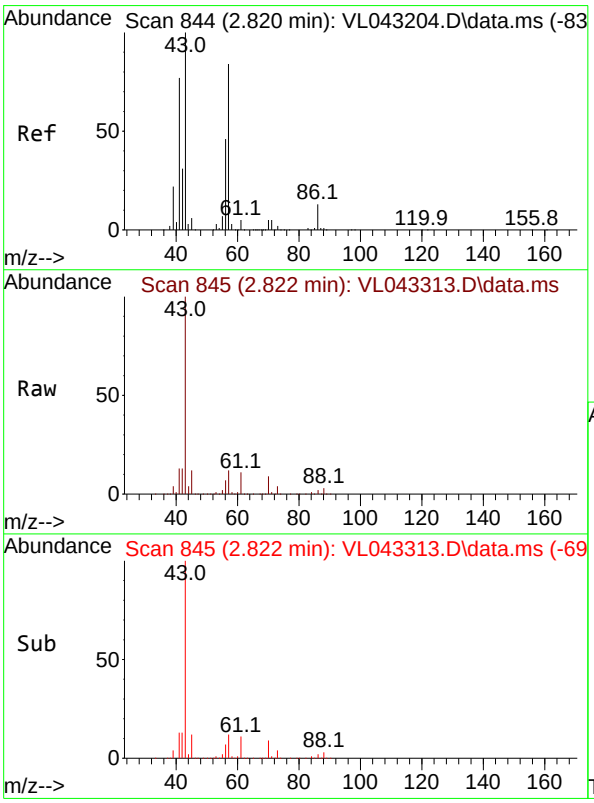
#25
Ethyl Acetate
Concen: 19.682 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 43 Resp: 839316

Ion	Ratio	Lower	Upper
43	100		
45	14.0	8.1	12.1#
61	12.1	7.0	10.4#
70	10.3	7.0	10.6

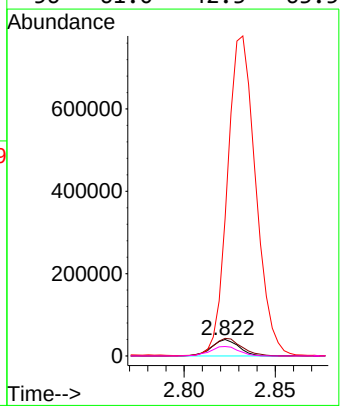


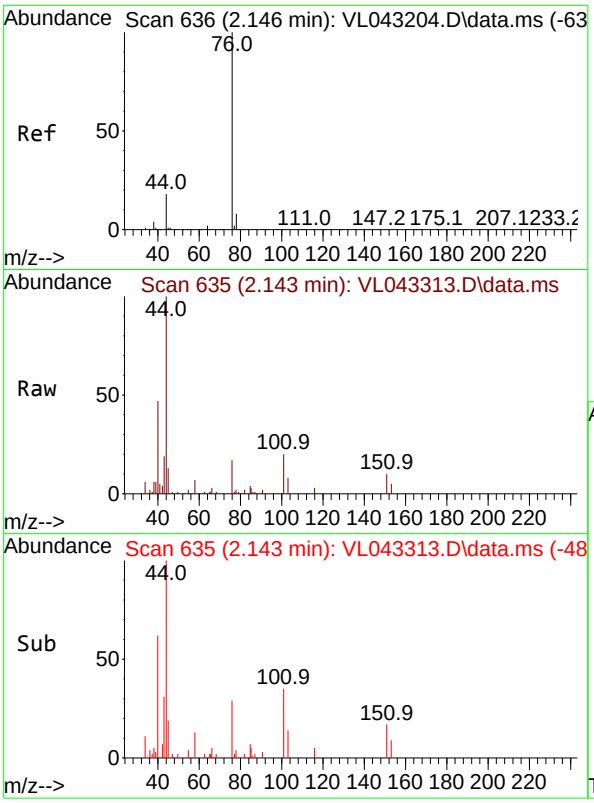


#26
Hexane
Concen: 2.202 ppbv
RT: 2.822 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 57 Resp: 41166

Ion	Ratio	Lower	Upper
57	100		
41	120.7	74.6	111.8#
43	2046.6	179.0	268.4#
56	61.0	42.3	63.5



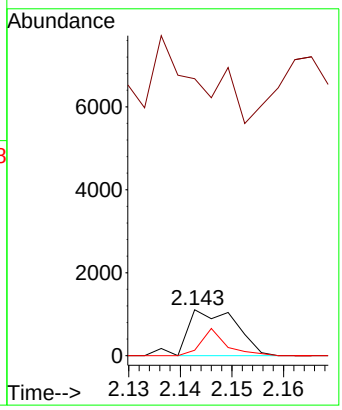


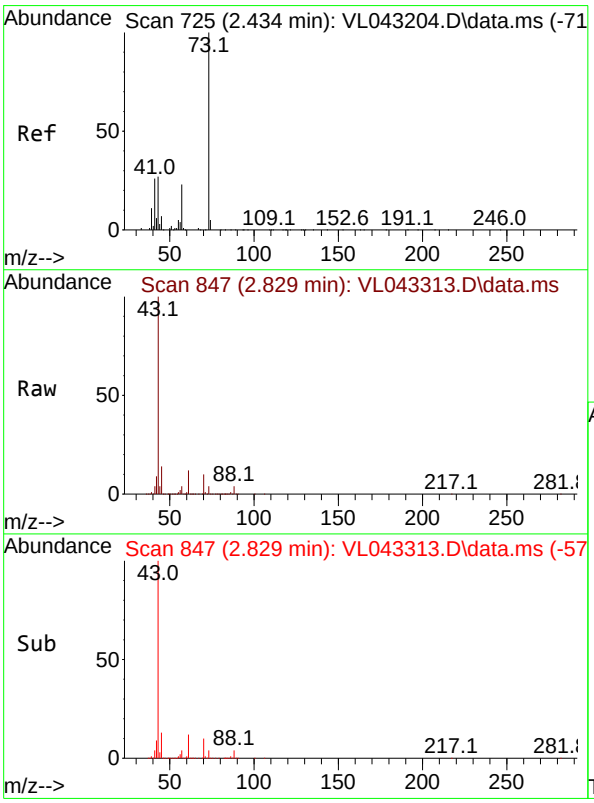
#27
Carbon Disulfide
Concen: 0.037 ppbv
RT: 2.143 min Scan# 6
Delta R.T. -0.004 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 76 Resp: 706

Ion	Ratio	Lower	Upper
76	100		
44	0.0	16.1	24.1#
78	32.9	9.6	14.4#

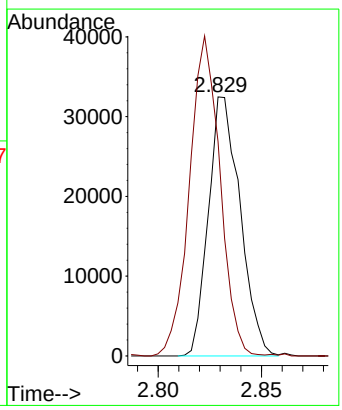


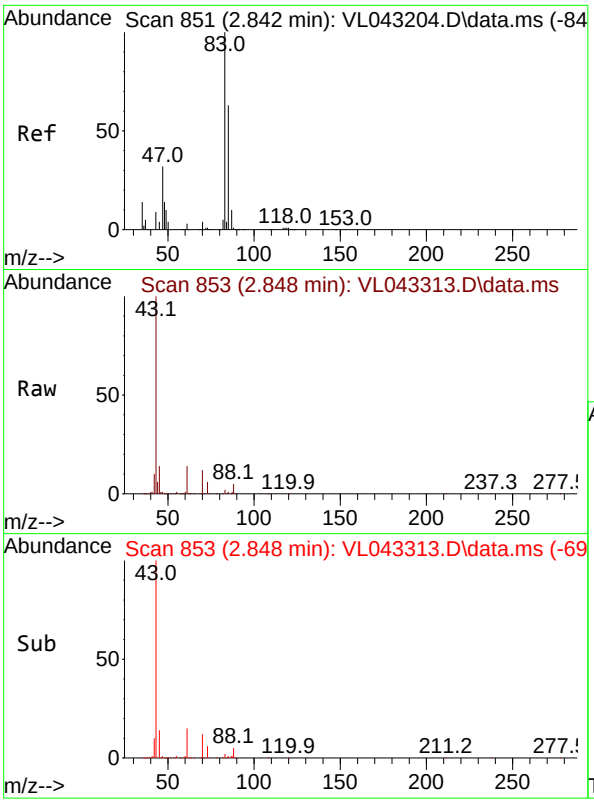


#28
Methyl tert-Butyl Ether
Concen: 3.776 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.394 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 73 Resp: 34658

Ion	Ratio	Lower	Upper
73	100		
57	119.3	19.8	29.8#



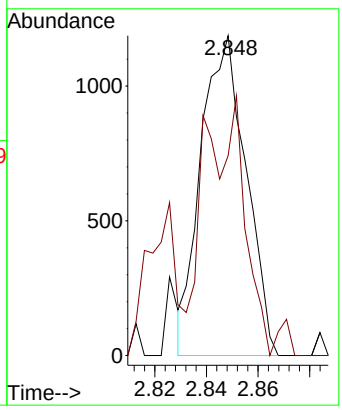


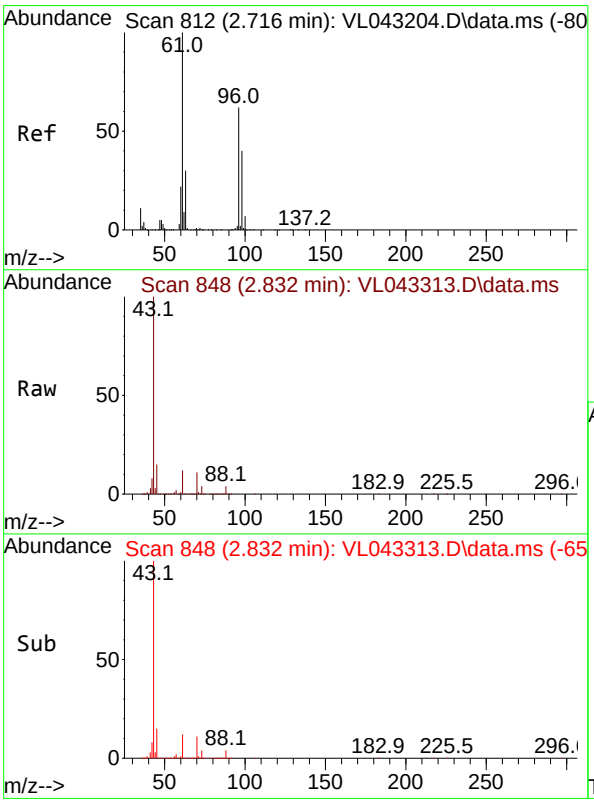
#29
Chloroform
Concen: 0.054 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 83 Resp: 1442

Ion	Ratio	Lower	Upper
83	100		
85	55.1	50.5	75.7

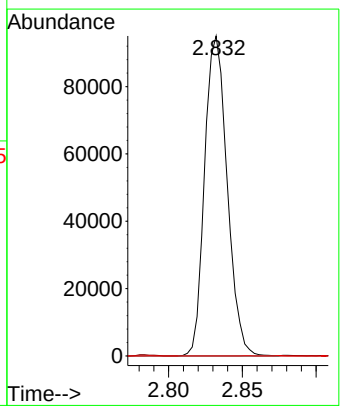


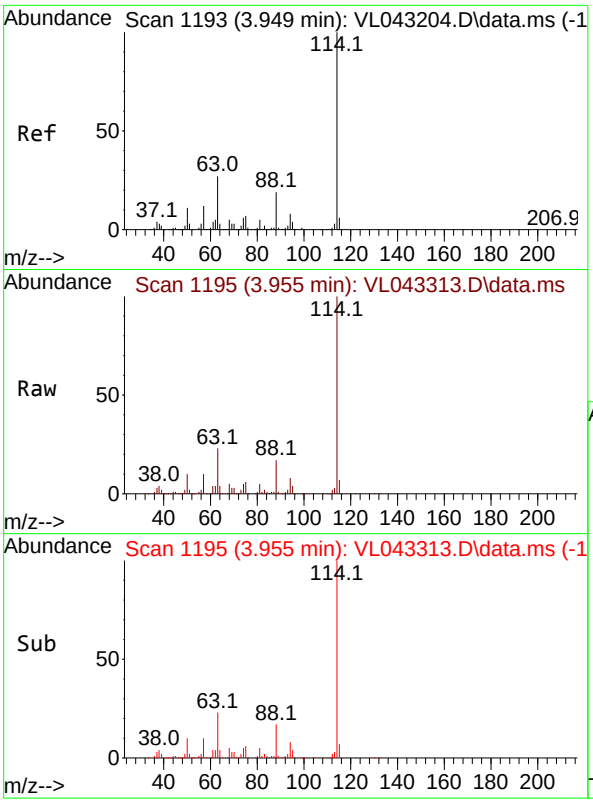


#31
cis-1,2-Dichloroethene
Concen: 5.441 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.116 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 61 Resp: 101121

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.3	73.9#
98	0.0	32.1	48.1#



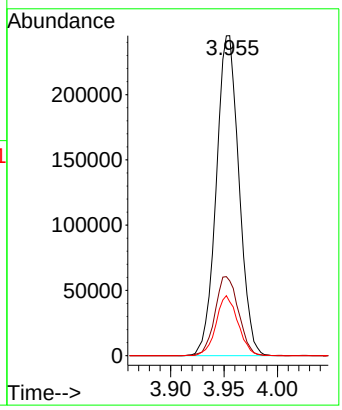


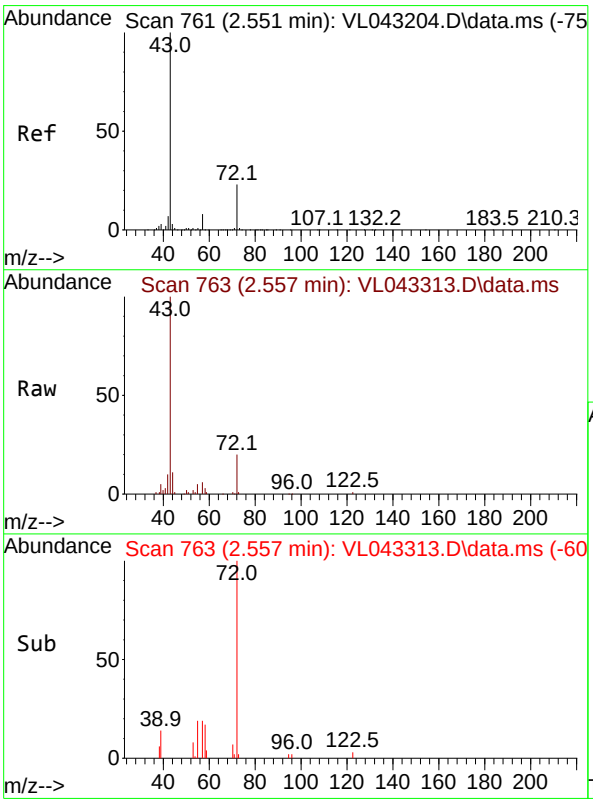
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion:114 Resp: 361997

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.0	31.6
88	18.1	14.9	22.3

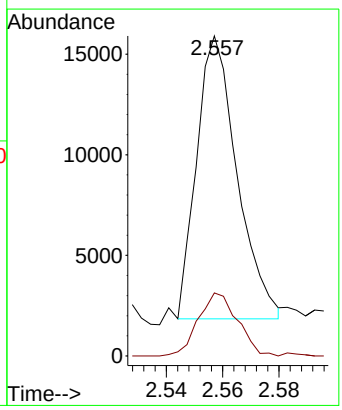


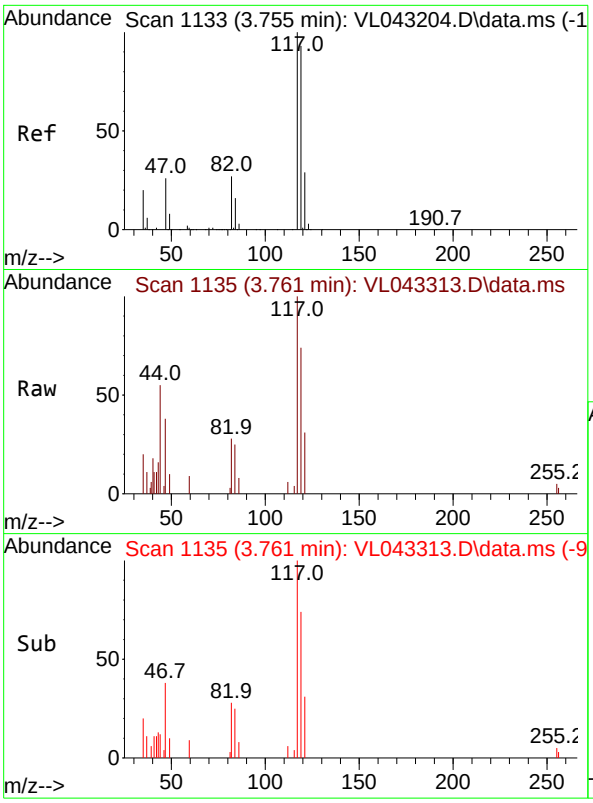


#34
2-Butanone
Concen: 0.548 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 43 Resp: 14010

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.1	27.1



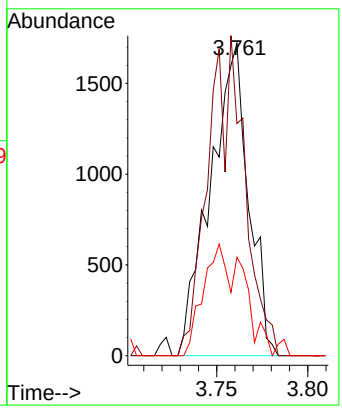


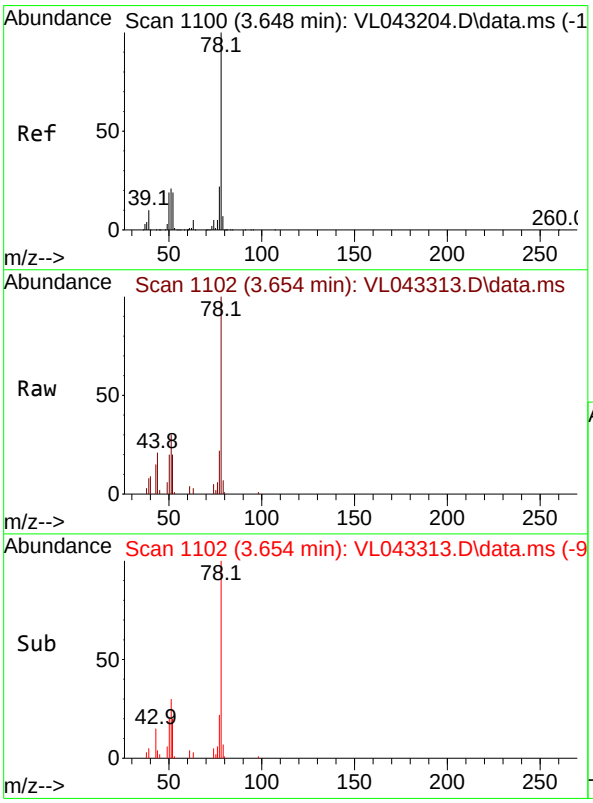
#35
Carbon Tetrachloride
Concen: 0.091 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion:117 Resp: 2513

Ion	Ratio	Lower	Upper
117	100		
119	74.3	74.6	112.0#
121	31.5	23.2	34.8

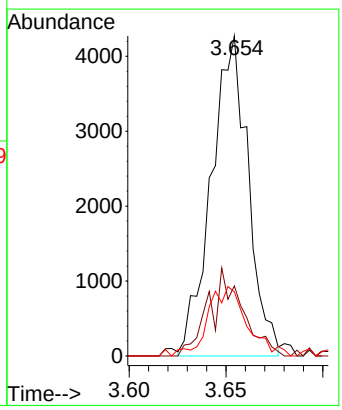


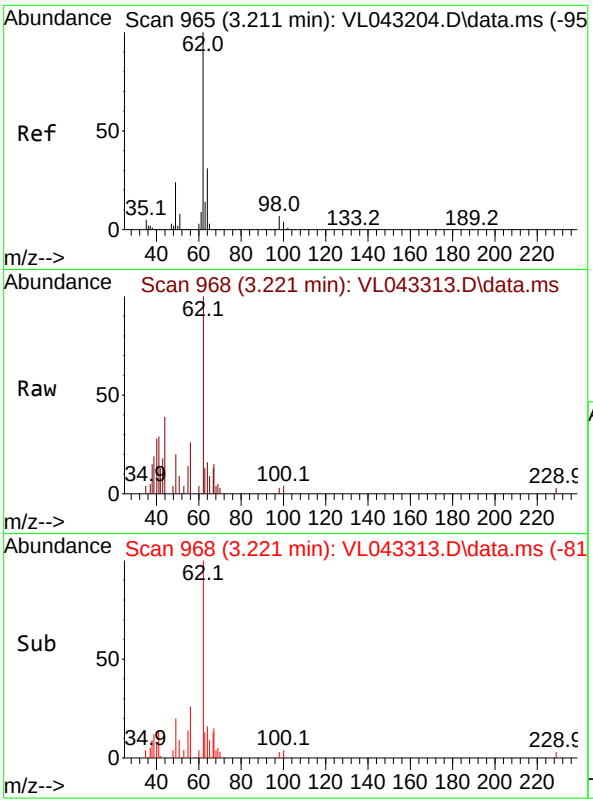


#36
Benzene
Concen: 0.163 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 78 Resp: 5665

Ion	Ratio	Lower	Upper
78	100		
77	22.2	17.5	26.3
50	18.3	15.5	23.3



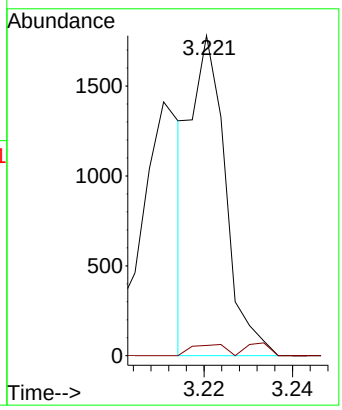


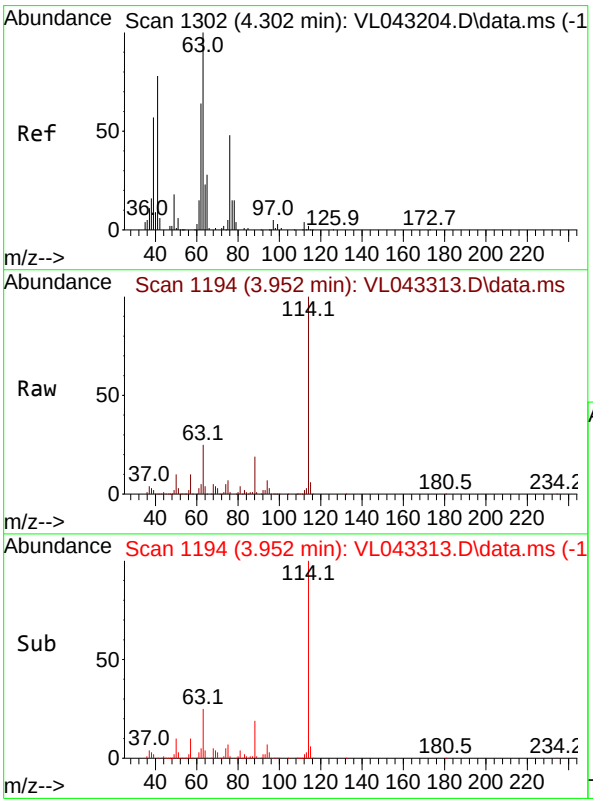
#37
1,2-Dichloroethane
Concen: 0.048 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.009 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 62 Resp: 966

Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.5	8.3

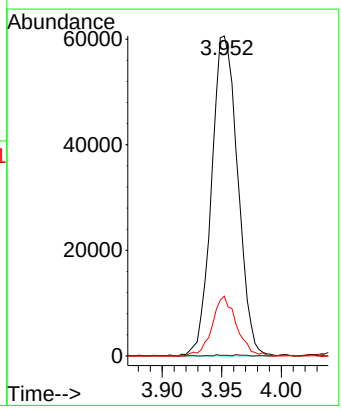


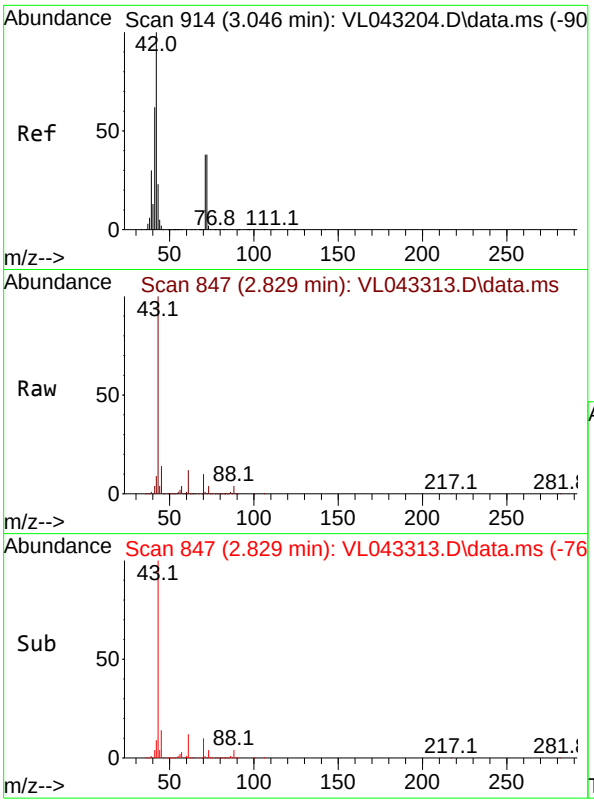


#39
1,2-Dichloropropane
Concen: 7.286 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.350 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 63 Resp: 92441

Ion	Ratio	Lower	Upper
63	100		
41	0.2	62.6	93.8#
62	18.7	51.0	76.6#



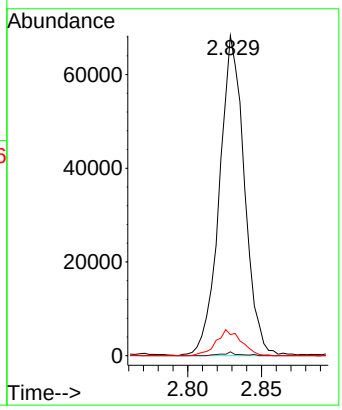


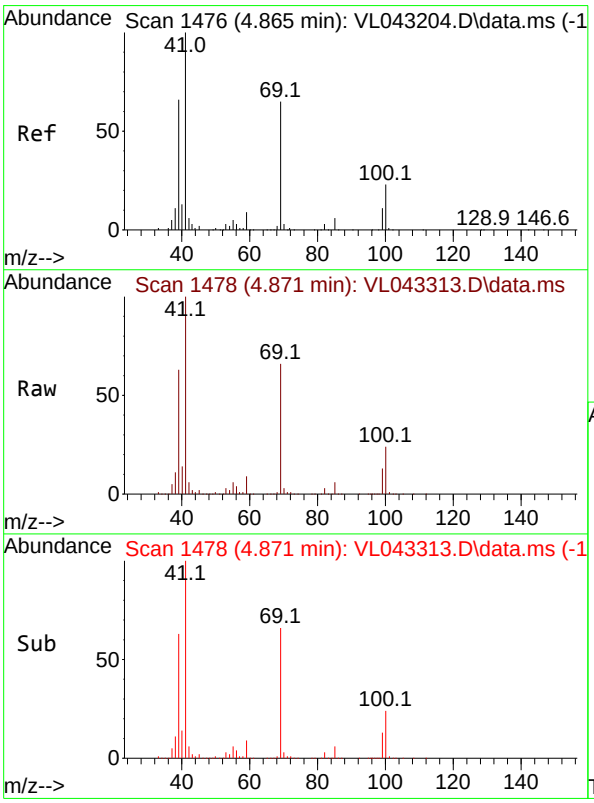
#41
Tetrahydrofuran
Concen: 5.708 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.217 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 42 Resp: 80551

Ion	Ratio	Lower	Upper
42	100		
72	0.7	30.6	46.0#
71	8.1	30.5	45.7#

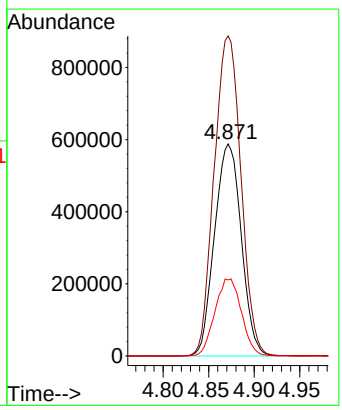


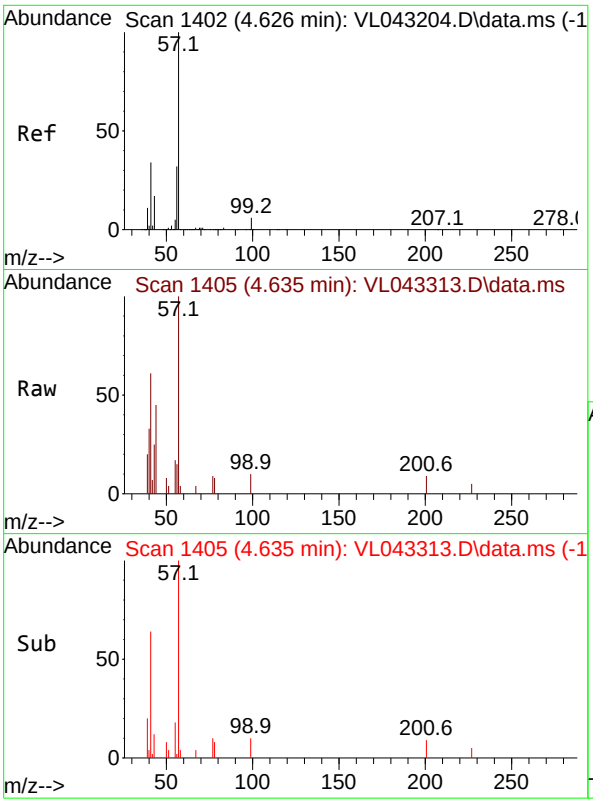


#43
Methyl Methacrylate
Concen: 65.204 ppbv
RT: 4.871 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 69 Resp: 1199833

Ion	Ratio	Lower	Upper
69	100		
41	151.4	126.7	190.1
100	36.1	28.6	43.0



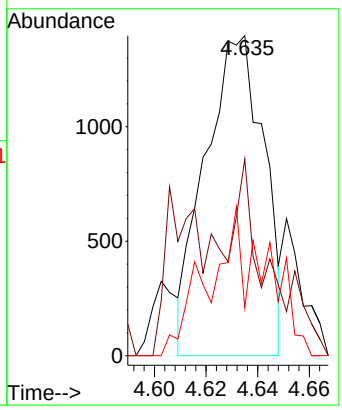


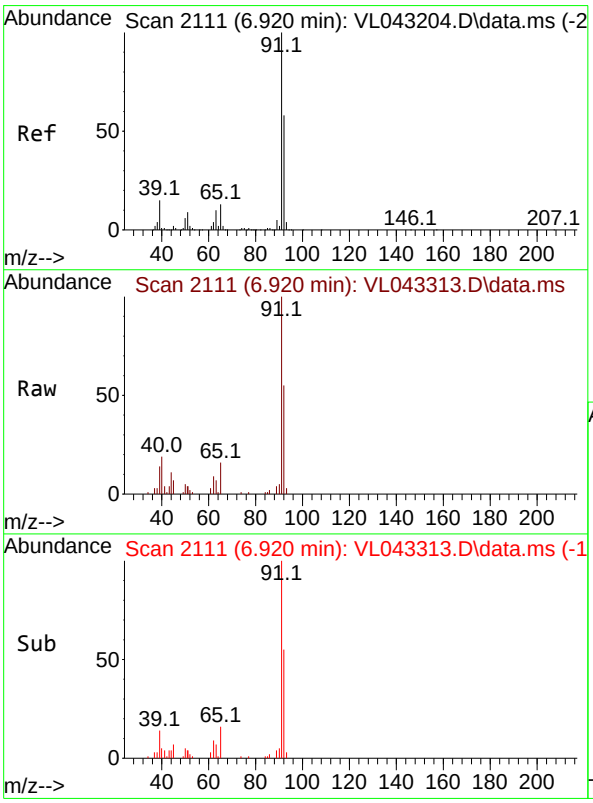
#44
2,2,4-Trimethylpentane
Concen: 0.037 ppbv
RT: 4.635 min Scan# 14
Delta R.T. 0.009 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 57 Resp: 2206

Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.0	42.0#
56	0.0	25.6	38.4#

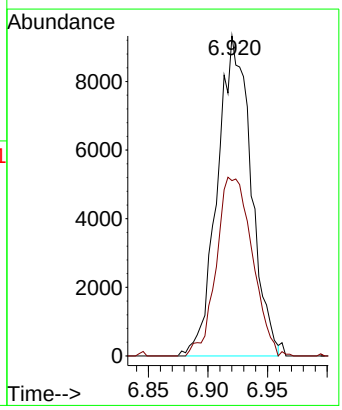


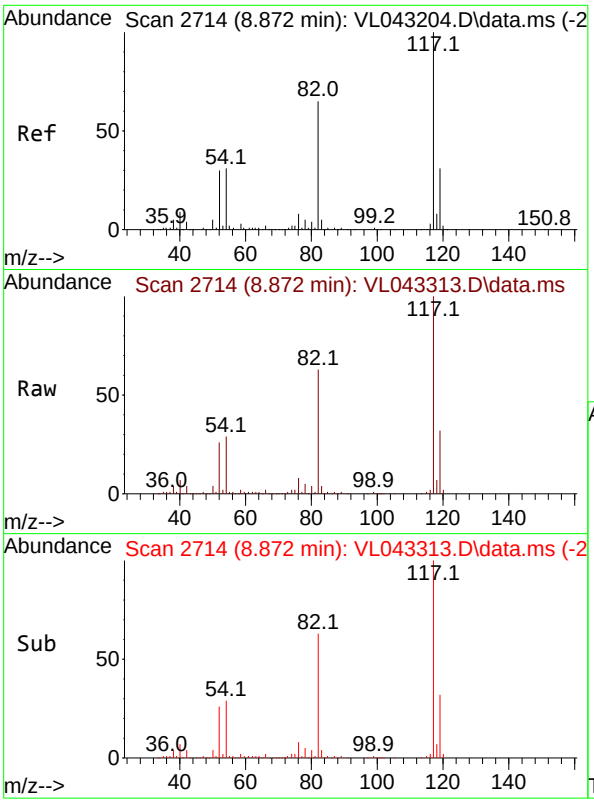


#53
Toluene
Concen: 0.447 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 91 Resp: 18366

Ion	Ratio	Lower	Upper
91	100		
92	59.4	47.4	71.0



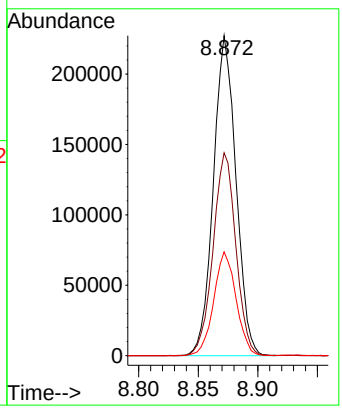


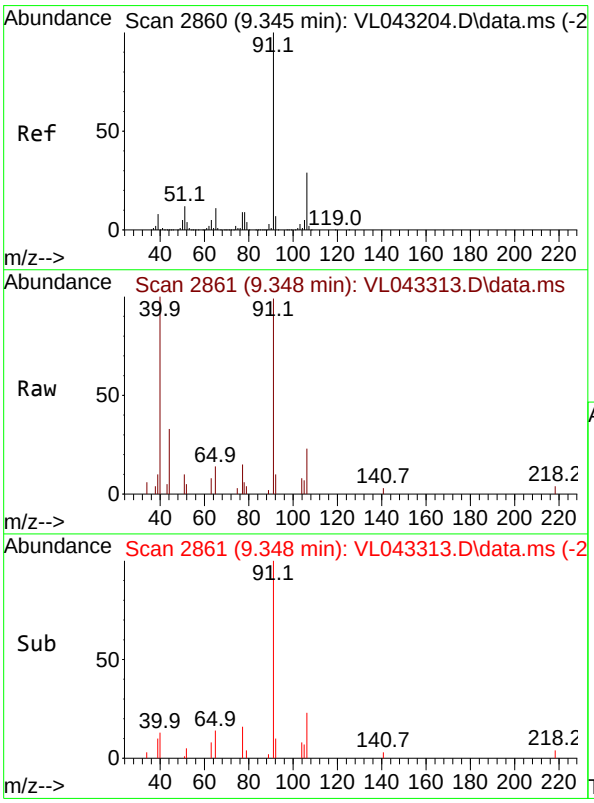
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion:117 Resp: 299956

Ion	Ratio	Lower	Upper
117	100		
82	63.9	56.1	84.1
119	32.3	25.0	37.6

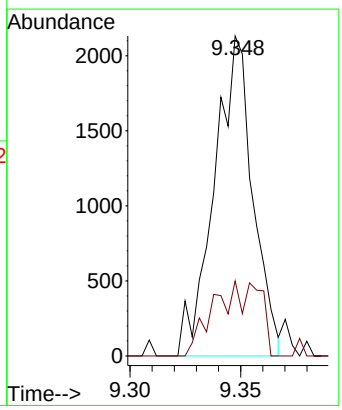


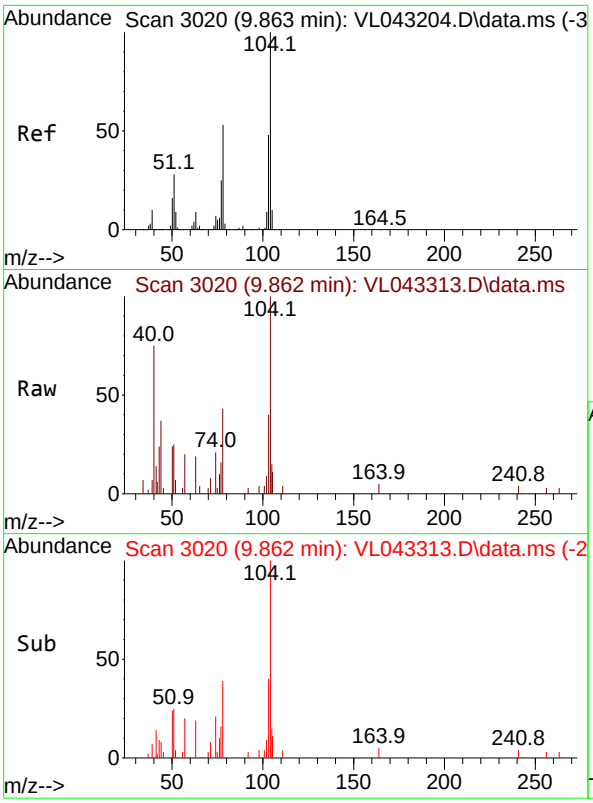


#58
Ethyl Benzene
Concen: 0.045 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 91 Resp: 2583

Ion	Ratio	Lower	Upper
91	100		
106	23.5	22.8	34.2



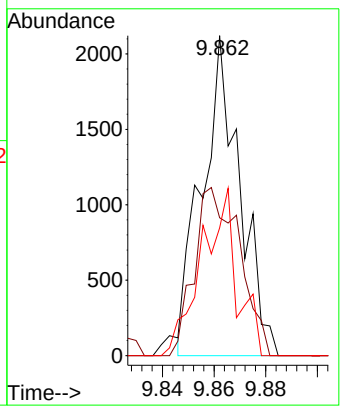


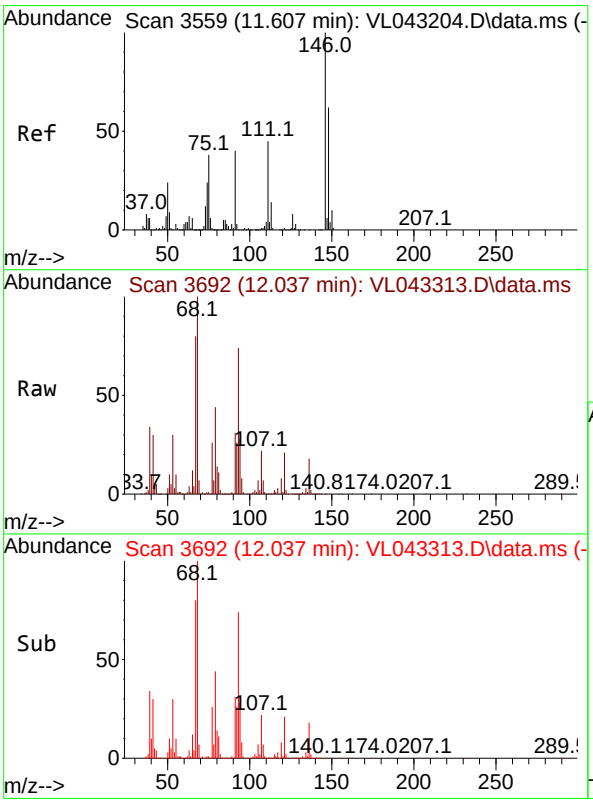
#61
Styrene
Concen: 0.107 ppbv
RT: 9.862 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion:104 Resp: 2173

Ion	Ratio	Lower	Upper
104	100		
78	64.7	42.1	63.1#
103	48.6	37.2	55.8

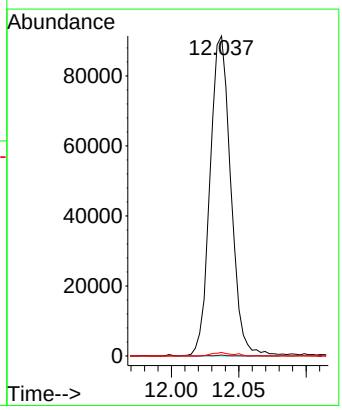


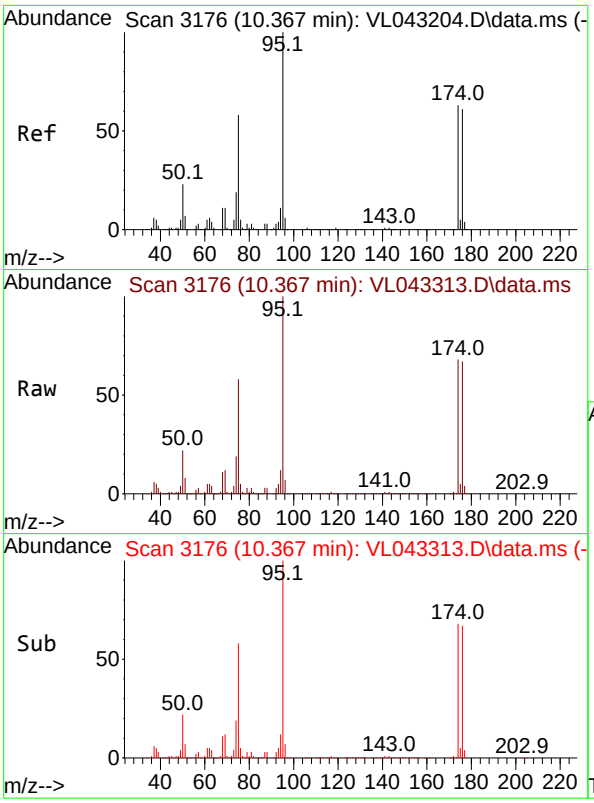


#66
Benzyl Chloride
Concen: 13.104 ppbv
RT: 12.037 min Scan# 3692
Delta R.T. 0.430 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 91 Resp: 98244

Ion	Ratio	Lower	Upper
91	100		
126	0.2	14.4	21.6#
128	1.1	4.6	6.8#



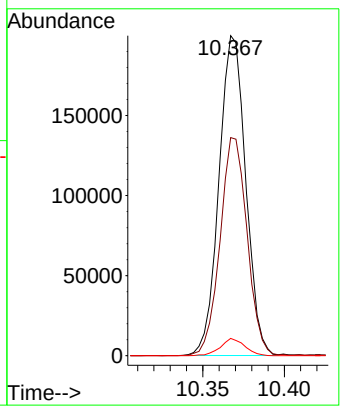


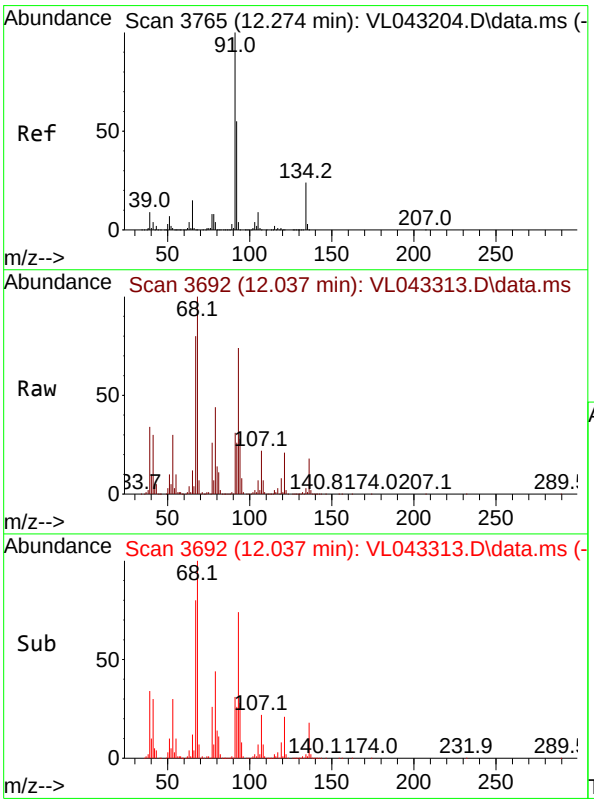
#68
1-Bromo-4-Fluorobenzene
Concen: 10.363 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion: 95 Resp: 227860

Ion	Ratio	Lower	Upper
95	100		
174	69.3	50.2	75.2
175	4.9	4.1	6.1

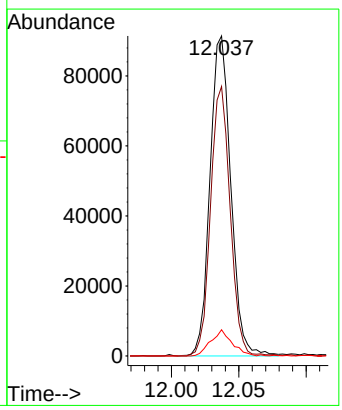


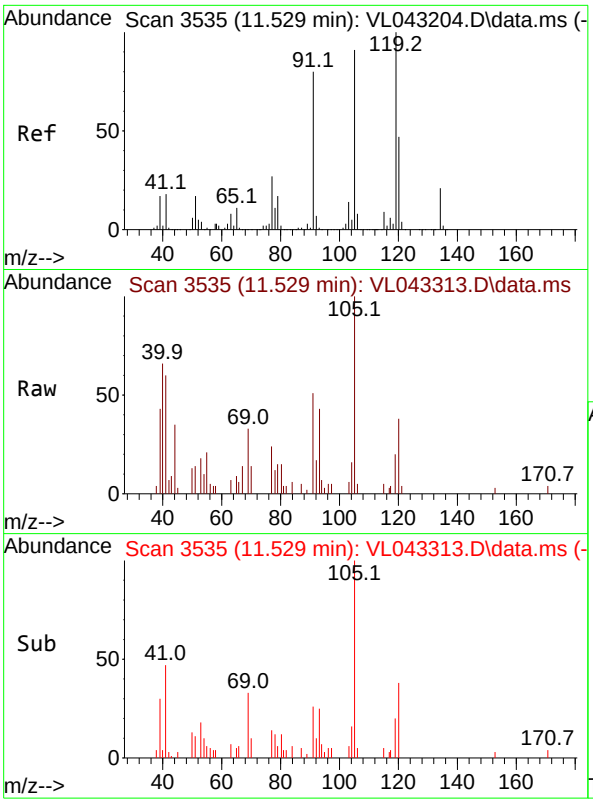


#70
n-Butylbenzene
Concen: 1.159 ppbv
RT: 12.037 min Scan# 3692
Delta R.T. -0.237 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 91 Resp: 98244

Ion	Ratio	Lower	Upper
91	100		
92	79.3	43.5	65.3#
134	8.5	19.0	28.6#



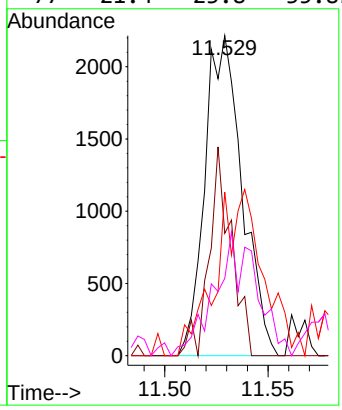


#74
1,2,4-Trimethylbenzene
Concen: 0.054 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1

Tgt Ion:105 Resp: 2784

Ion	Ratio	Lower	Upper
105	100		
120	38.2	41.7	62.5#
91	51.1	70.0	105.0#
77	21.4	23.8	35.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043314.D
Acq On : 08 Dec 2025 15:37
Operator : SY/MD
Sample : Q3799-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Quant Time: Dec 09 00:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

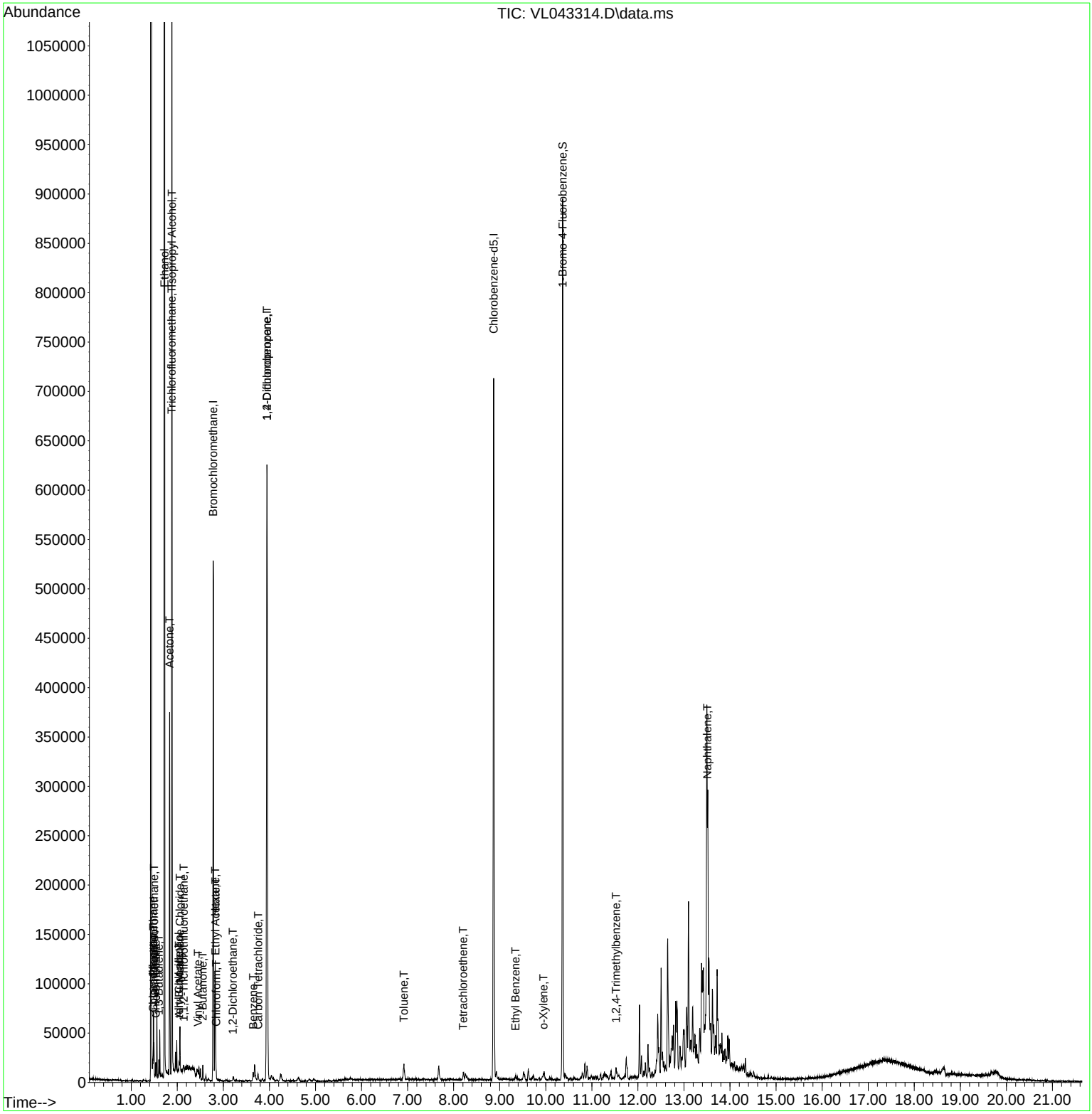
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.781	49	138499	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.946	114	354324	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.869	117	279503	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.364	95	214484	10.469	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	7849	0.402	ppbv		96
3) Chlorodifluoromethane	1.473	51	9090	0.473	ppbv	#	83
4) Chloromethane	1.531	50	3636	0.498	ppbv		94
9) Propene	1.483	41	6390	0.783	ppbv	#	86
11) Trichlorofluoromethane	1.878	101	4305	0.227	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.140	101	1091	0.074	ppbv		100
13) Ethanol	1.722	45	1527543	532.508	ppbv		91
15) Acetone	1.832	43	153023	7.952	ppbv		100
16) 1,3-Butadiene	1.599	39	2201	0.257	ppbv	#	29
17) tert-Butyl alcohol	2.040	59	3031	0.120	ppbv		100
19) Isopropyl Alcohol	1.884	45	507615	46.685	ppbv	#	37
20) Methylene Chloride	2.059	84	6519	0.396	ppbv		88
21) Allyl Chloride	2.040	41	1053	0.081	ppbv	#	21
23) Vinyl Acetate	2.447	43	4178	0.180	ppbv	#	84
25) Ethyl Acetate	2.829	43	27132	0.654	ppbv	#	95
26) Hexane	2.823	57	22119	1.216	ppbv	#	58
29) Chloroform	2.845	83	1255	0.049	ppbv		93
34) 2-Butanone	2.554	43	8673	0.347	ppbv	#	90
35) Carbon Tetrachloride	3.755	117	2524	0.094	ppbv	#	86
36) Benzene	3.648	78	5240	0.154	ppbv		94
37) 1,2-Dichloroethane	3.205	62	720	0.036	ppbv	#	80
39) 1,2-Dichloropropane	3.946	63	88097	7.094	ppbv	#	23
52) Tetrachloroethene	8.205	164	443	0.035	ppbv	#	53
53) Toluene	6.917	91	7807	0.194	ppbv	#	70
58) Ethyl Benzene	9.345	91	2046	0.038	ppbv		93
60) o-Xylene	9.953	91	1391	0.032	ppbv		78
74) 1,2,4-Trimethylbenzene	11.523	105	2617	0.054	ppbv	#	46
79) Naphthalene	13.507	128	5897	0.138	ppbv	#	1

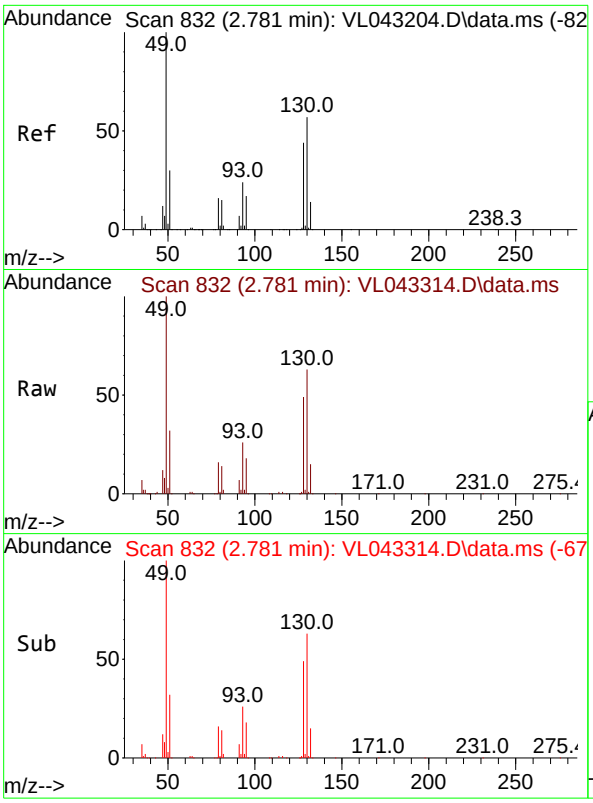
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043314.D
Acq On : 08 Dec 2025 15:37
Operator : SY/MD
Sample : Q3799-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Quant Time: Dec 09 00:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



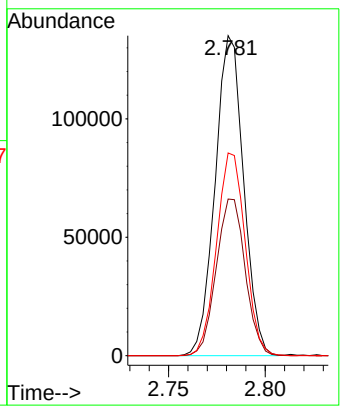


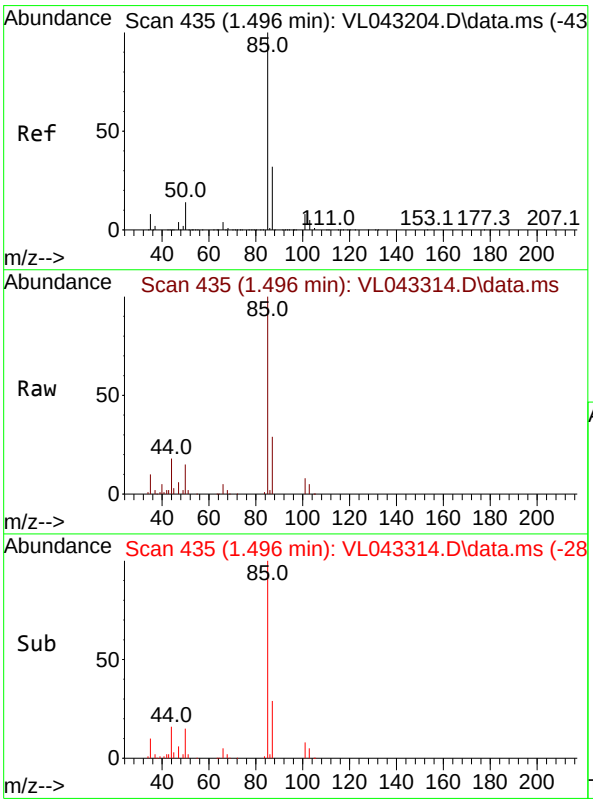
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 49 Resp: 138499

Ion	Ratio	Lower	Upper
49	100		
128	49.7	23.0	69.0
130	63.4	29.9	89.7

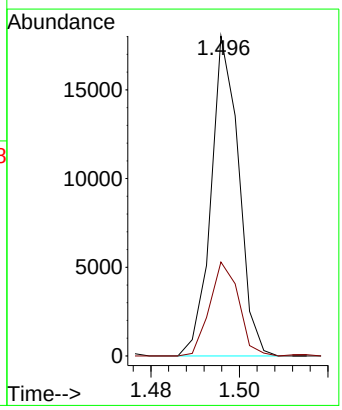


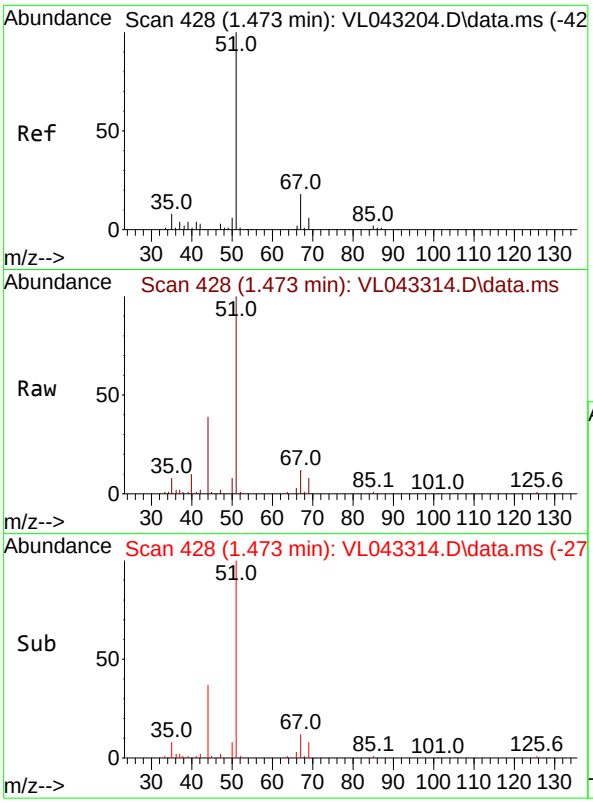


#2
Dichlorodifluoromethane
Concen: 0.402 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 85 Resp: 7849

Ion	Ratio	Lower	Upper
85	100		
87	29.4	25.4	38.2



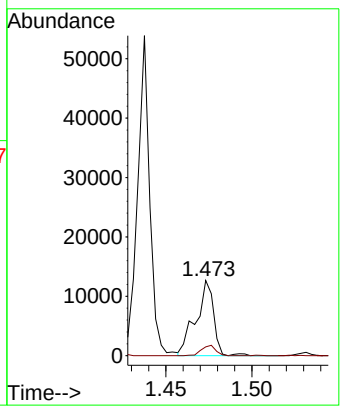


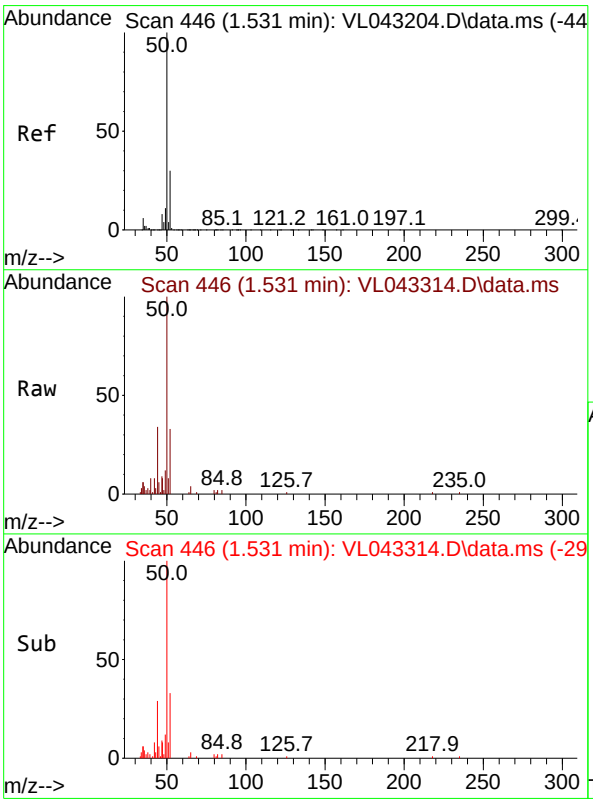
#3
Chlorodifluoromethane
Concen: 0.473 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 51 Resp: 9090

Ion	Ratio	Lower	Upper
51	100		
67	11.0	14.9	22.3#

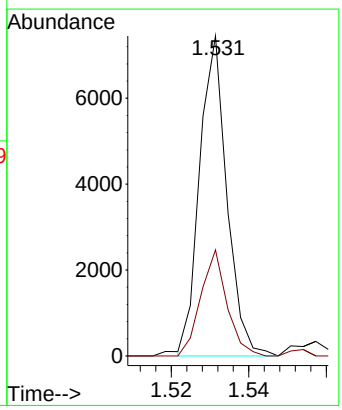


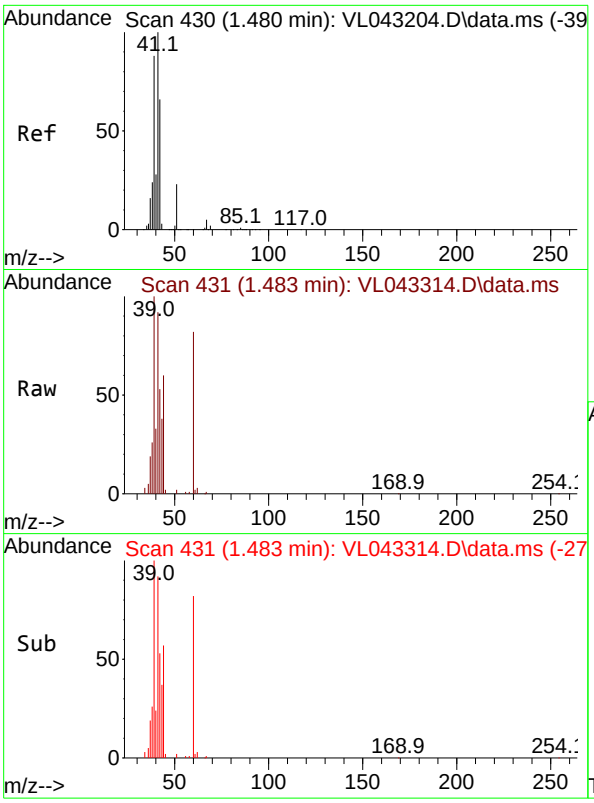


#4
Chloromethane
Concen: 0.498 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 50 Resp: 3636

Ion	Ratio	Lower	Upper
50	100		
52	33.1	24.1	36.1



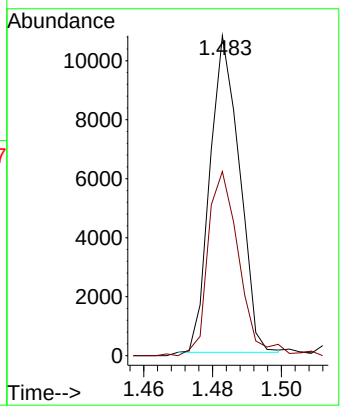


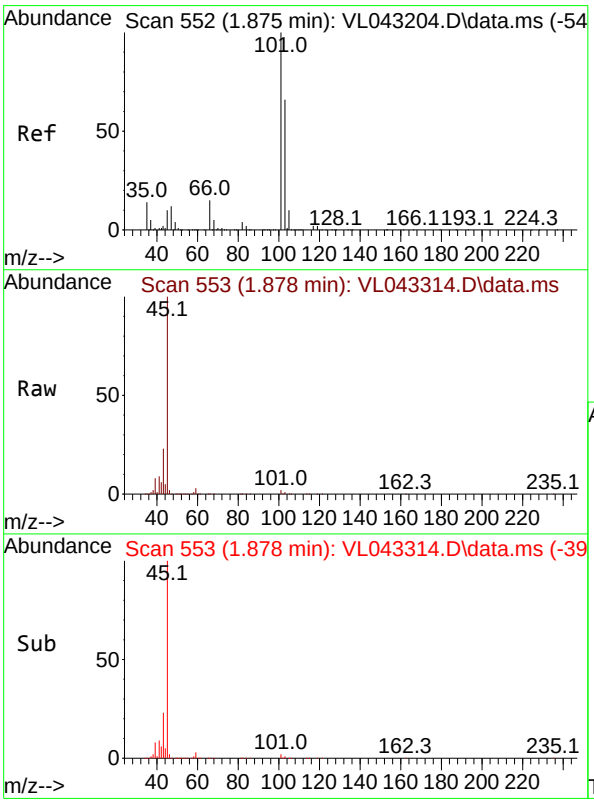
#9
Propene
Concen: 0.783 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 41 Resp: 6390

Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5#

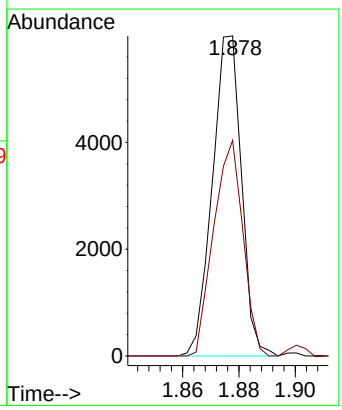


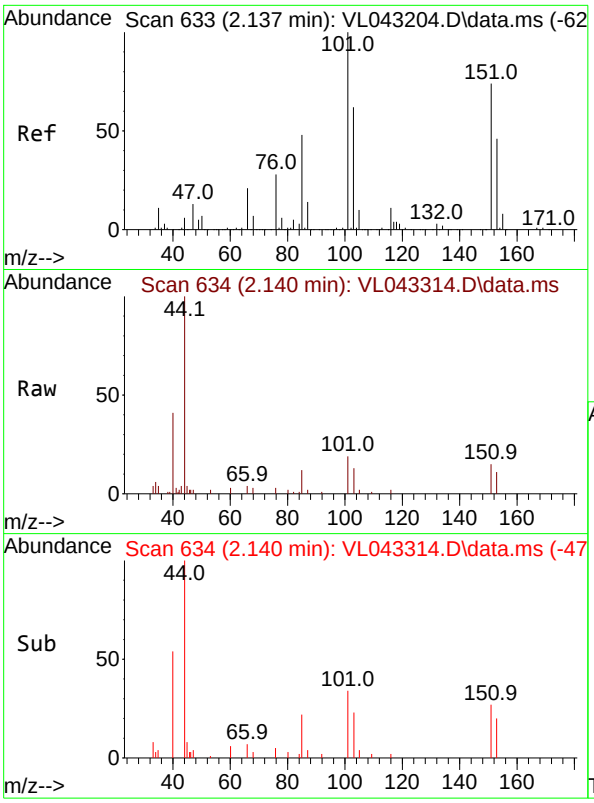


#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion:101 Resp: 4305

Ion	Ratio	Lower	Upper
101	100		
103	67.4	52.6	79.0



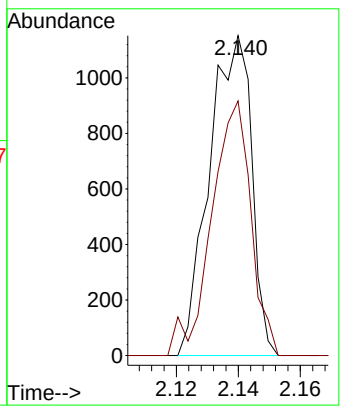


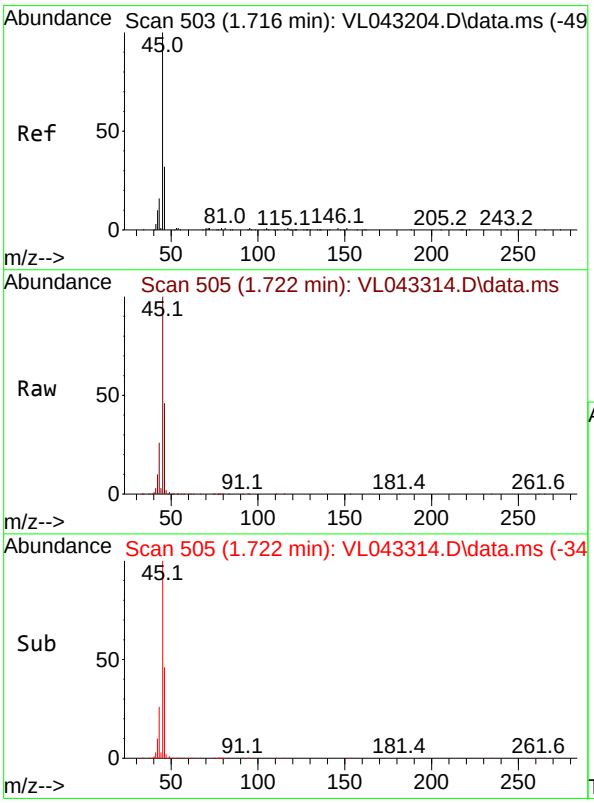
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion:101 Resp: 1091

Ion	Ratio	Lower	Upper
101	100		
151	74.1	59.2	88.8

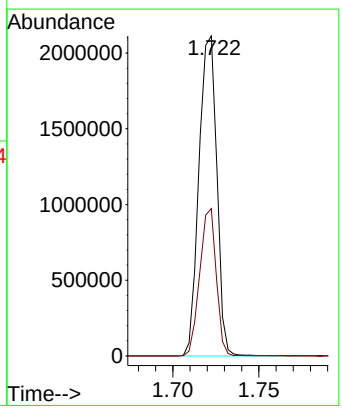


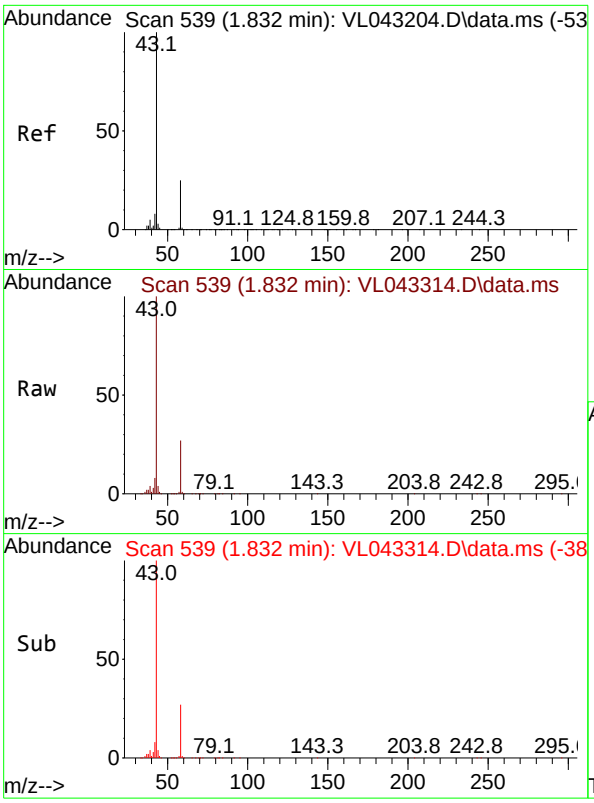


#13
Ethanol
Concen: 532.508 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 45 Resp: 1527543

Ion	Ratio	Lower	Upper
45	100		
46	42.8	15.0	59.8



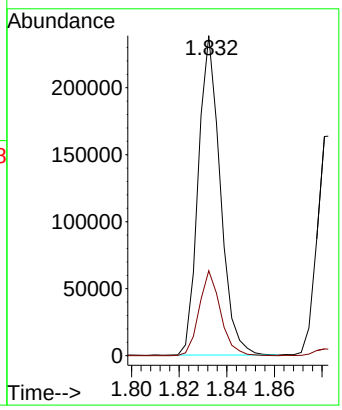


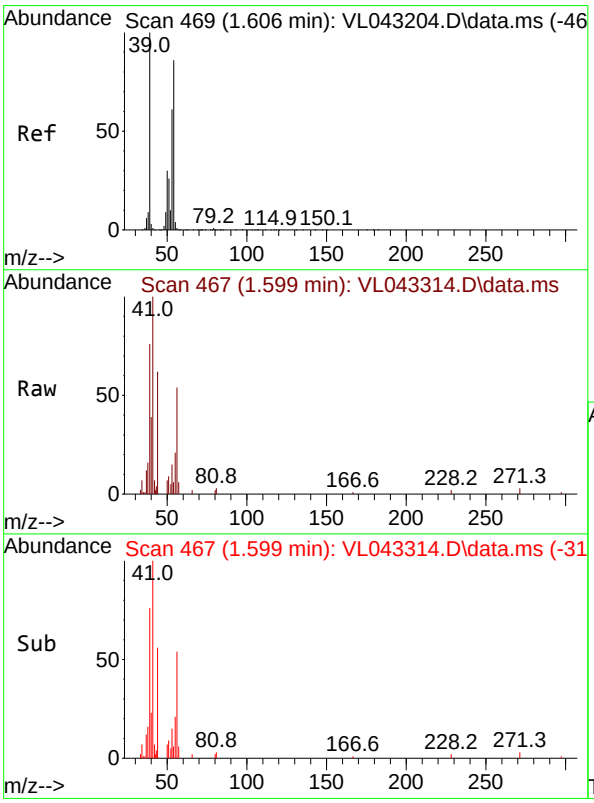
#15
Acetone
Concen: 7.952 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 43 Resp: 153023

Ion	Ratio	Lower	Upper
43	100		
58	25.9	20.7	31.1

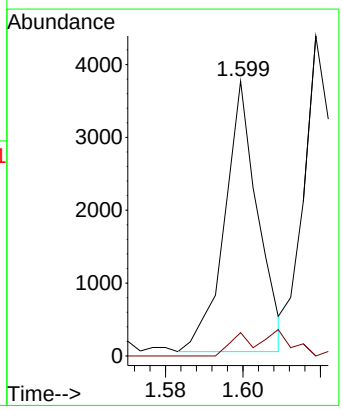


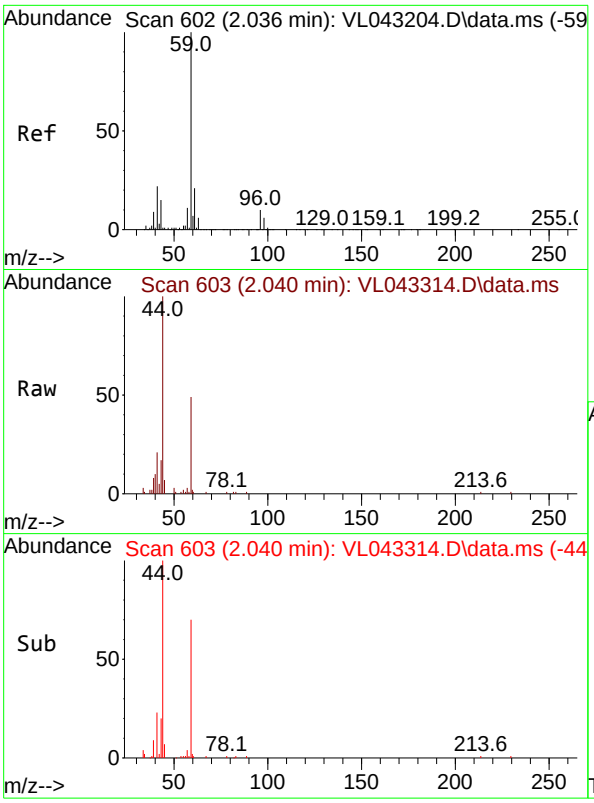


#16
1,3-Butadiene
Concen: 0.257 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.006 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 39 Resp: 2201

Ion	Ratio	Lower	Upper
39	100		
54	14.1	59.4	89.2#



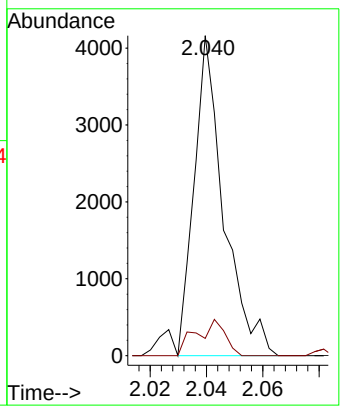


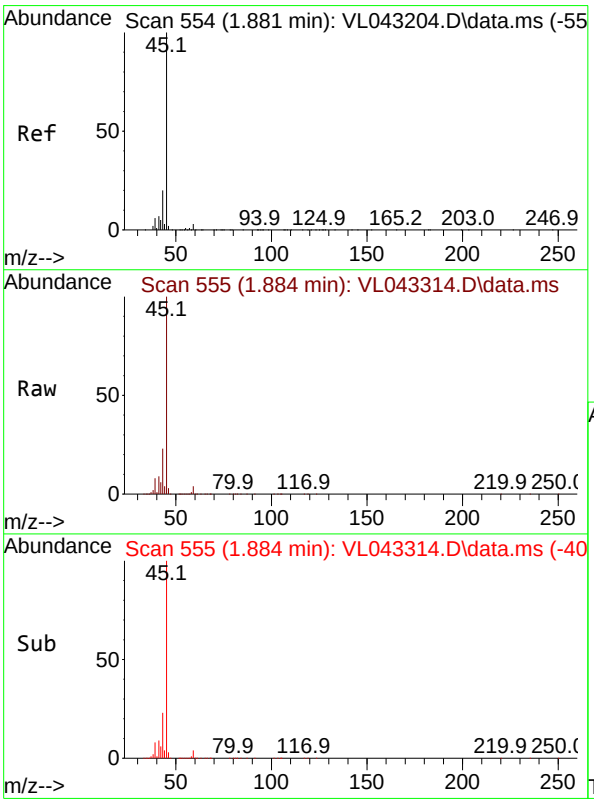
#17
tert-Butyl alcohol
Concen: 0.120 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 59 Resp: 3031

Ion	Ratio	Lower	Upper
59	100		
57	11.1	9.0	13.4

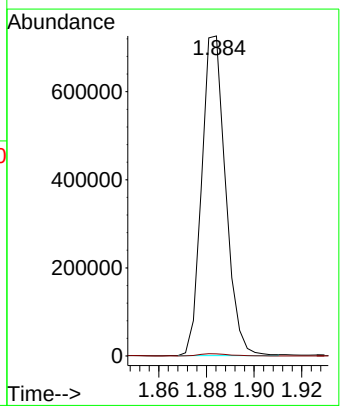


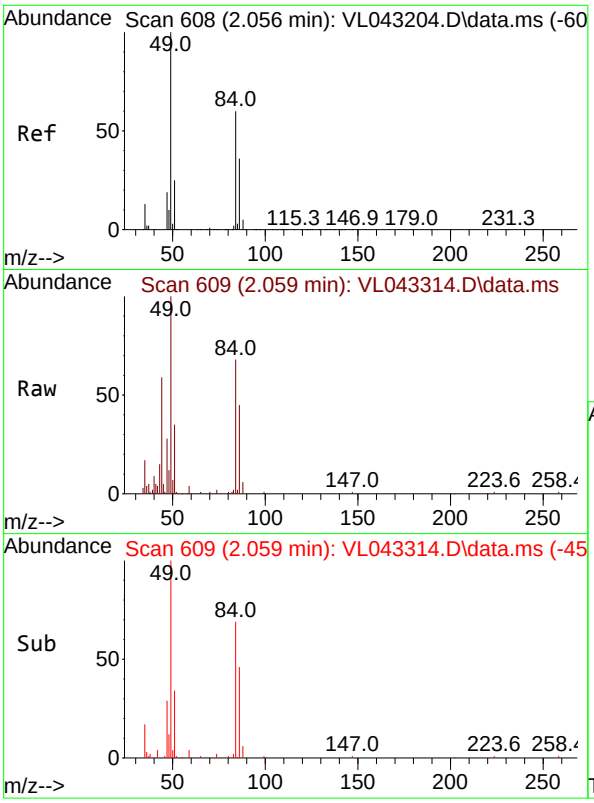


#19
Isopropyl Alcohol
Concen: 46.685 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 45 Resp: 507615

Ion	Ratio	Lower	Upper
45	100		
58	0.9	31.3	46.9#



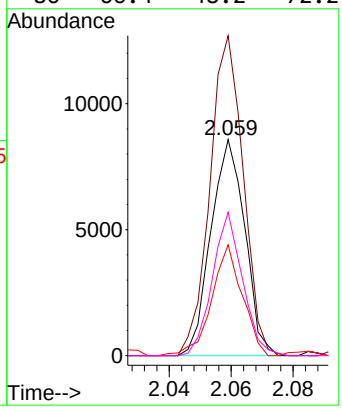


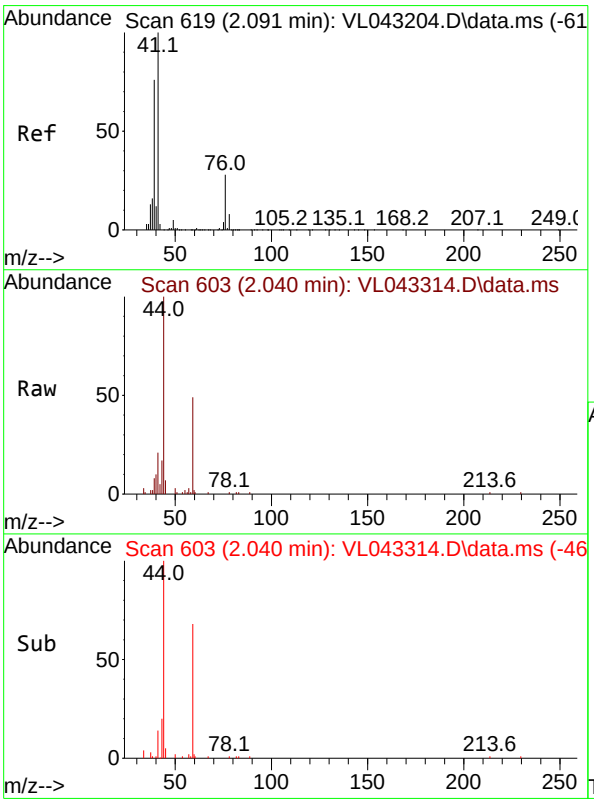
#20
Methylene Chloride
Concen: 0.396 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 84 Resp: 6519

Ion	Ratio	Lower	Upper
84	100		
49	148.0	132.9	199.3
51	51.3	34.8	52.2
86	66.4	48.2	72.2

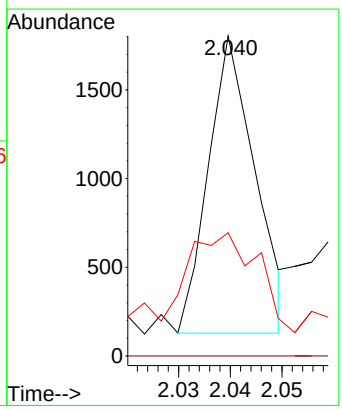


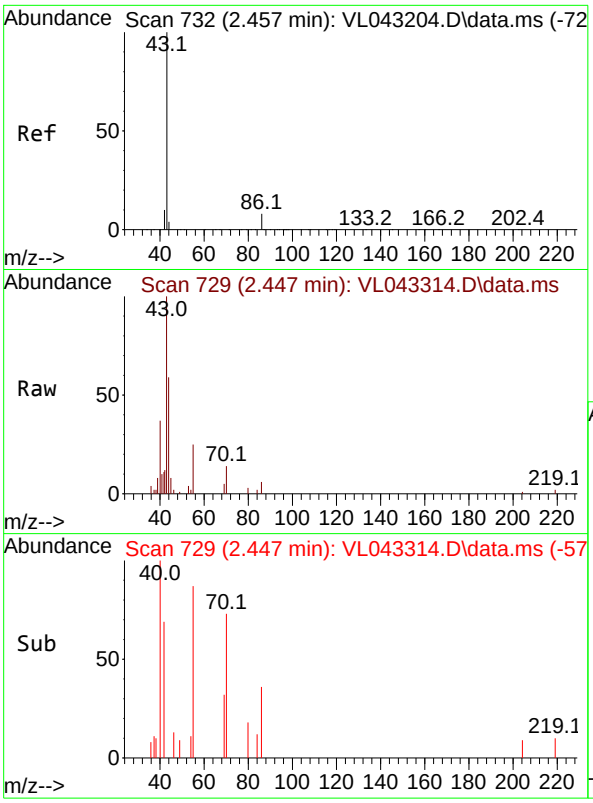


#21
Allyl Chloride
Concen: 0.081 ppbv
RT: 2.040 min Scan# 603
Delta R.T. -0.052 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 41 Resp: 1053

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.1	33.1#
39	0.0	61.0	91.4#



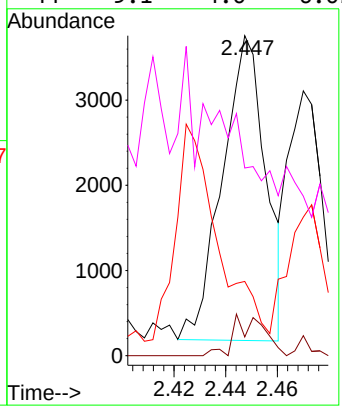


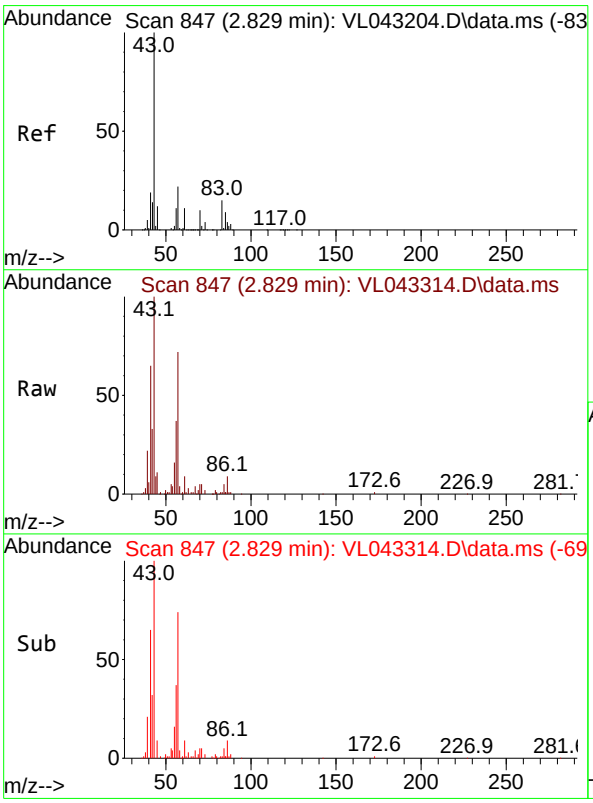
#23
Vinyl Acetate
Concen: 0.180 ppbv
RT: 2.447 min Scan# 7
Delta R.T. -0.010 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 43 Resp: 4178

Ion	Ratio	Lower	Upper
43	100		
86	6.2	6.2	9.2
42	0.0	8.0	12.0#
44	9.1	4.0	6.0#

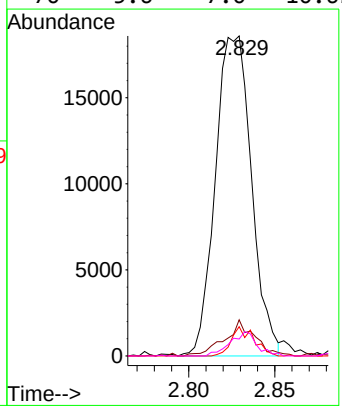


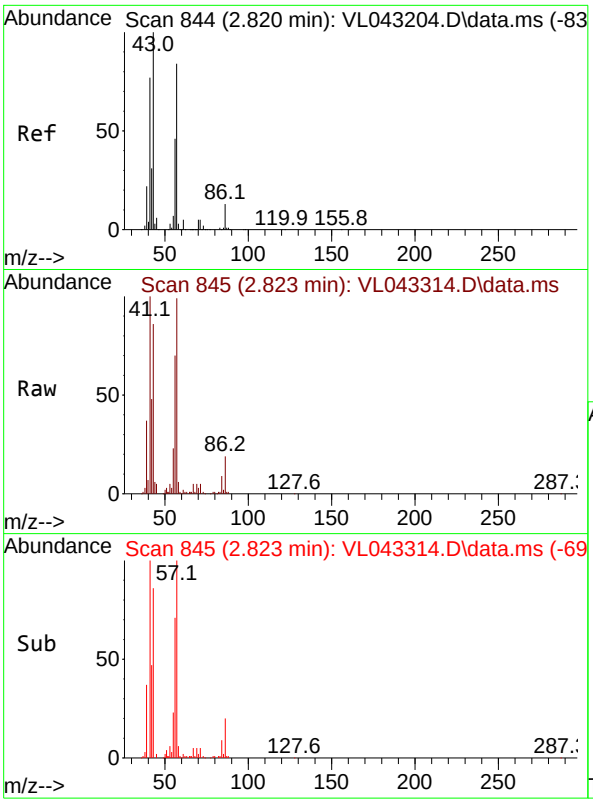


#25
Ethyl Acetate
Concen: 0.654 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 43 Resp: 27132

Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	5.8	7.0	10.4#
70	5.6	7.0	10.6#



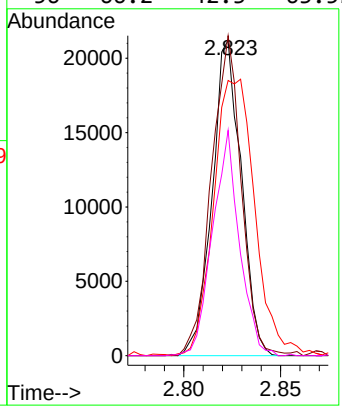


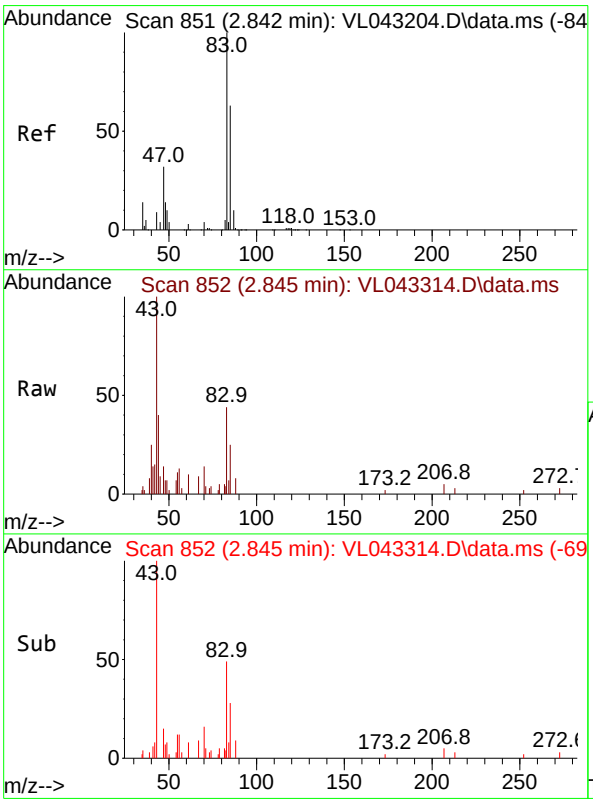
#26
Hexane
Concen: 1.216 ppbv
RT: 2.823 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 57 Resp: 22119

Ion	Ratio	Lower	Upper
57	100		
41	104.5	74.6	111.8
43	125.3	179.0	268.4#
56	66.2	42.3	63.5#

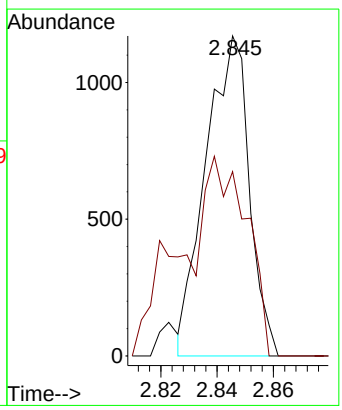


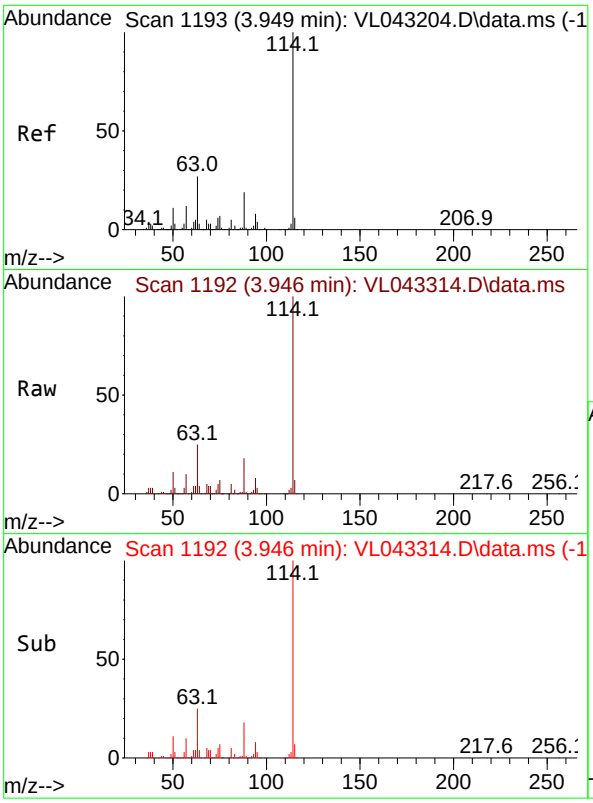


#29
Chloroform
Concen: 0.049 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 83 Resp: 1255

Ion	Ratio	Lower	Upper
83	100		
85	57.6	50.5	75.7



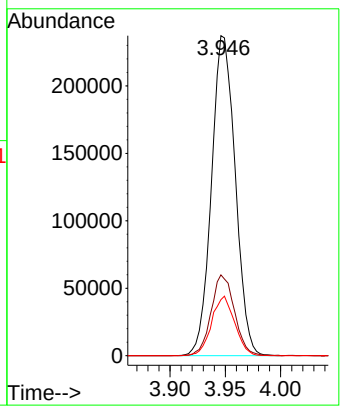


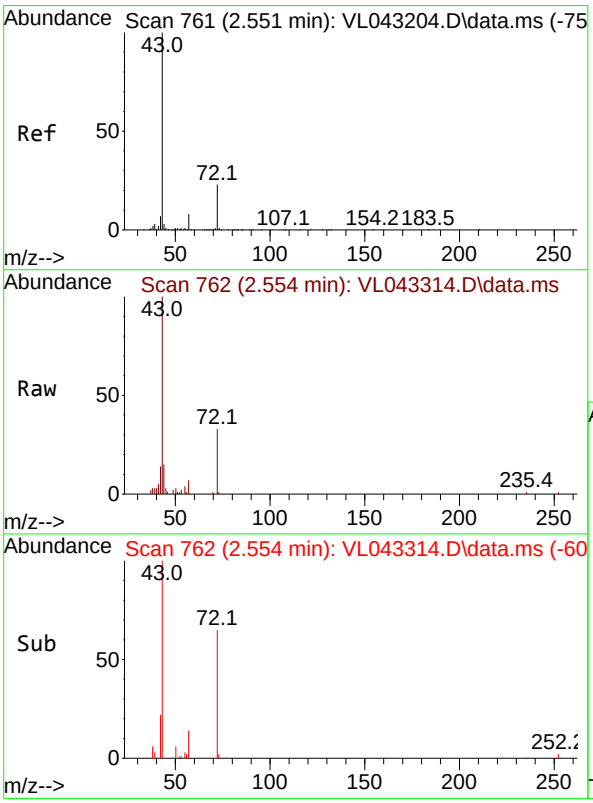
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion:114 Resp: 354324

Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.0	31.6
88	18.1	14.9	22.3

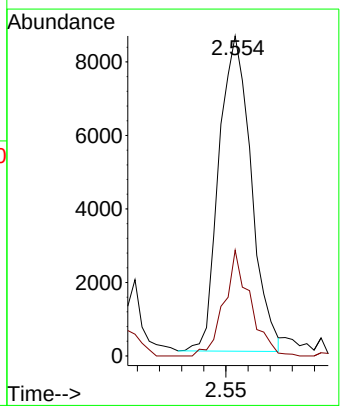


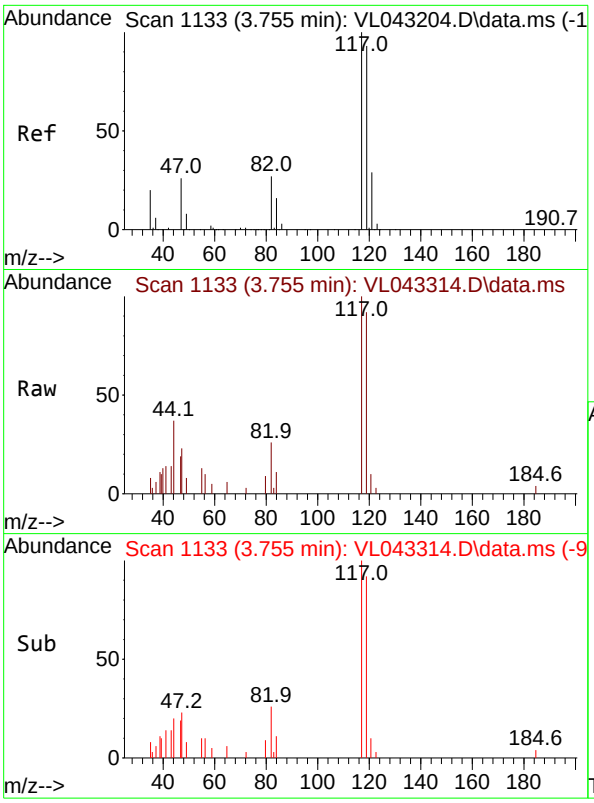


#34
2-Butanone
Concen: 0.347 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 43 Resp: 8673

Ion	Ratio	Lower	Upper
43	100		
72	27.2	18.1	27.1#



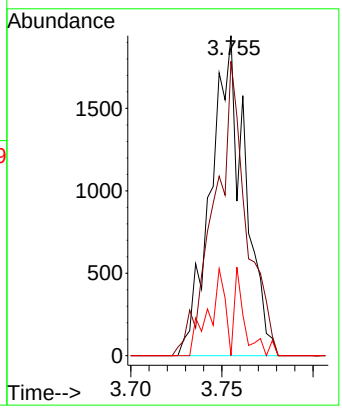


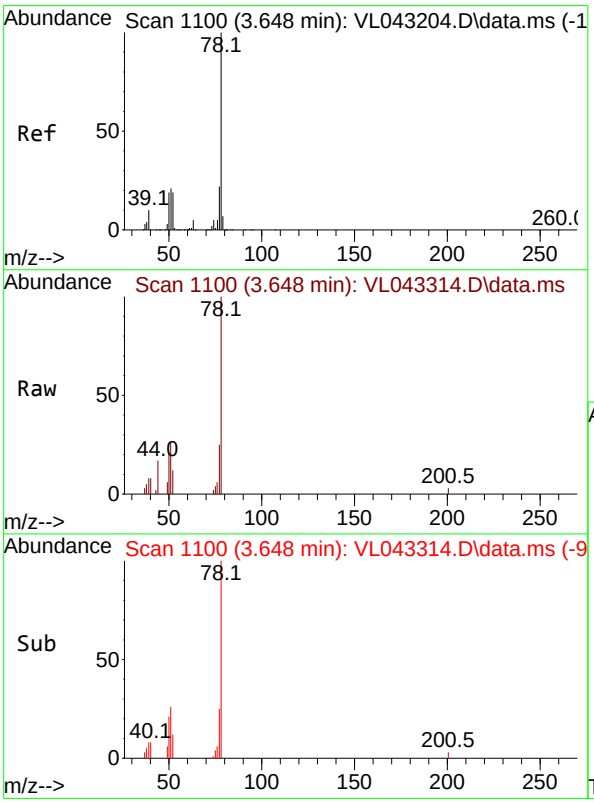
#35
Carbon Tetrachloride
Concen: 0.094 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion:117 Resp: 2524

Ion	Ratio	Lower	Upper
117	100		
119	92.0	74.6	112.0
121	0.0	23.2	34.8#

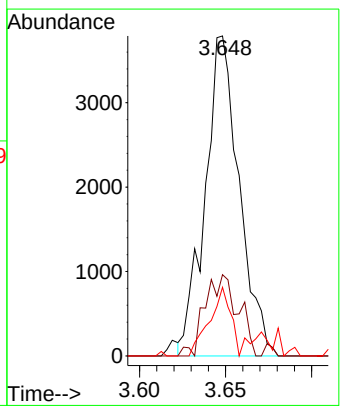


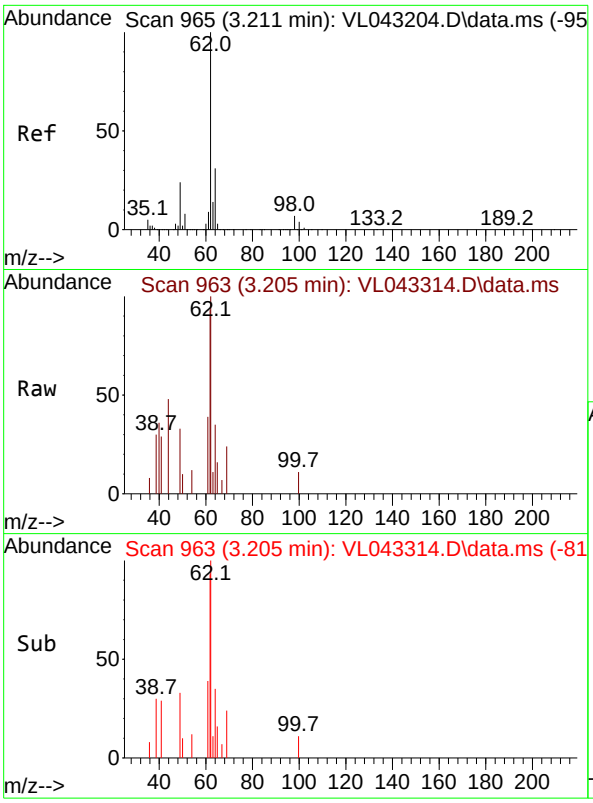


#36
Benzene
Concen: 0.154 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 78 Resp: 5240

Ion	Ratio	Lower	Upper
78	100		
77	25.4	17.5	26.3
50	21.4	15.5	23.3



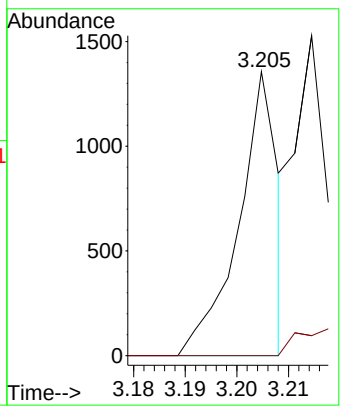


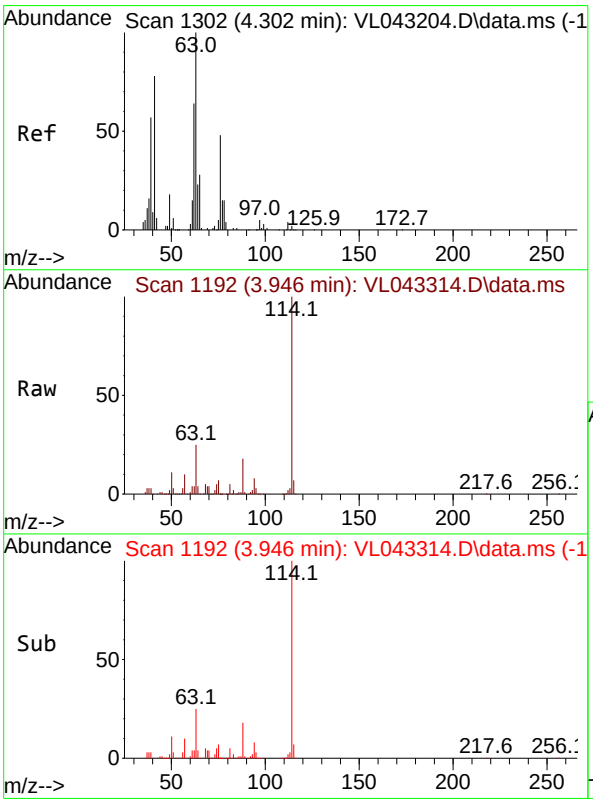
#37
1,2-Dichloroethane
Concen: 0.036 ppbv
RT: 3.205 min Scan# 9
Delta R.T. -0.006 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 62 Resp: 720

Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.5	8.3#

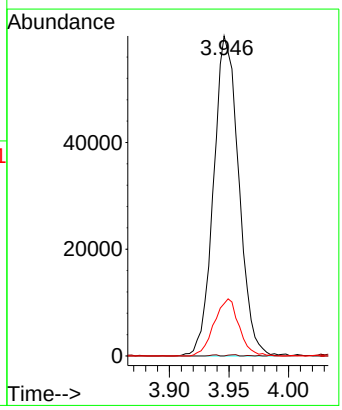


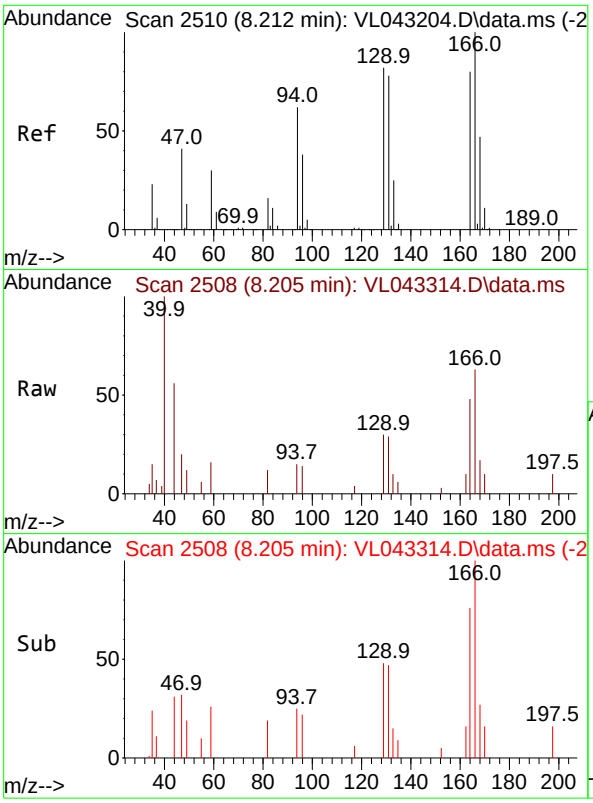


#39
1,2-Dichloropropane
Concen: 7.094 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.356 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 63 Resp: 88097

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.6	93.8#
62	16.4	51.0	76.6#



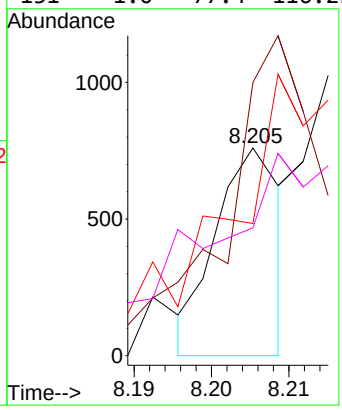


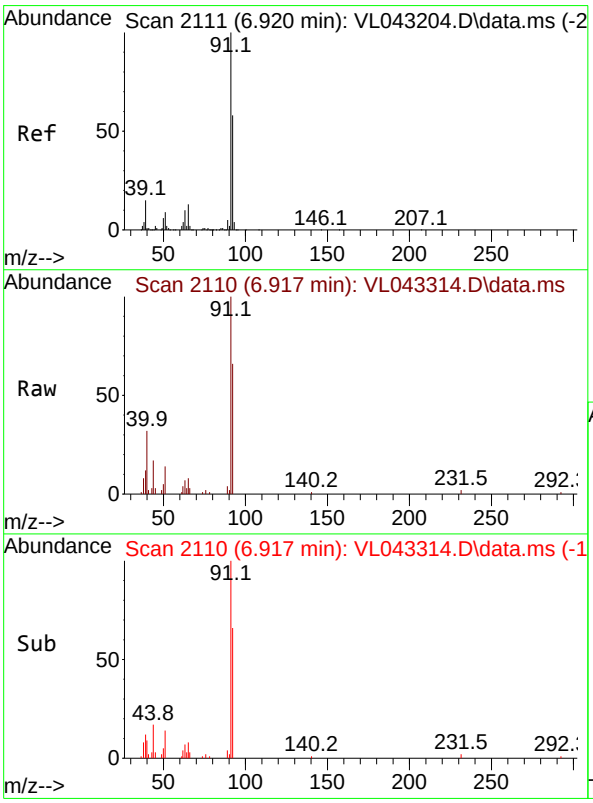
#52
Tetrachloroethene
Concen: 0.035 ppbv
RT: 8.205 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion:164 Resp: 443

Ion	Ratio	Lower	Upper
164	100		
166	119.6	99.4	149.2
129	49.9	81.8	122.8#
131	1.0	77.4	116.2#

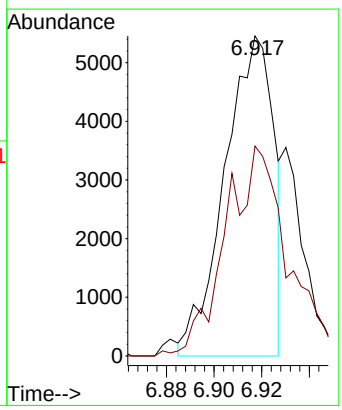


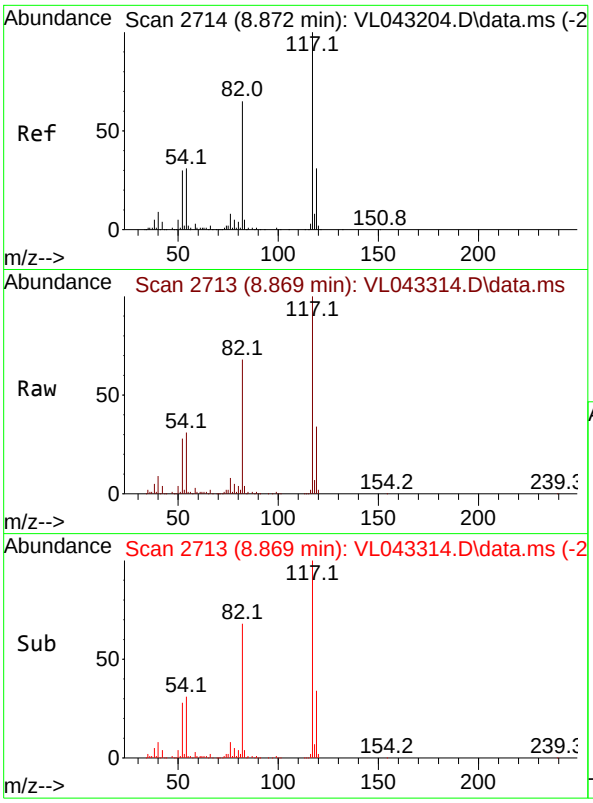


#53
Toluene
Concen: 0.194 ppbv
RT: 6.917 min Scan# 2110
Delta R.T. -0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 91 Resp: 7807

Ion	Ratio	Lower	Upper
91	100		
92	82.0	47.4	71.0#



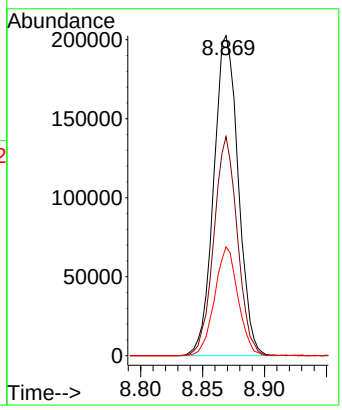


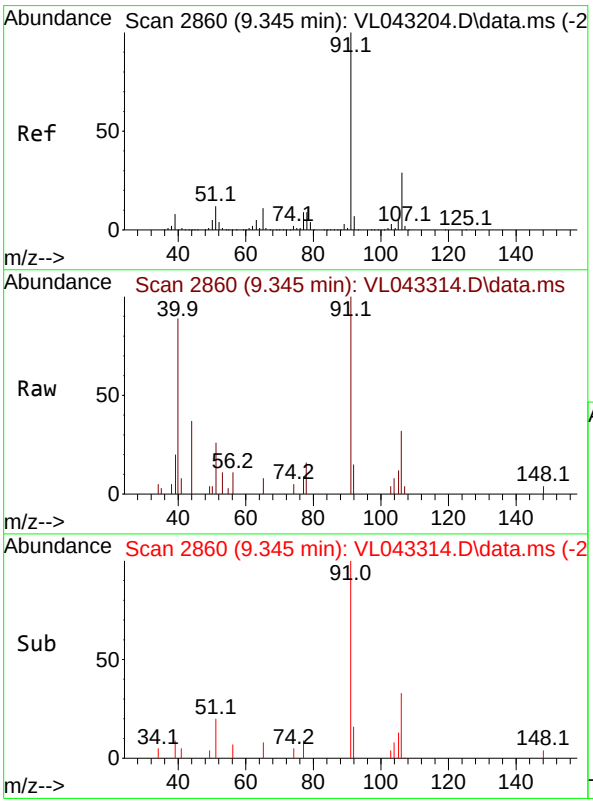
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion:117 Resp: 279503

Ion	Ratio	Lower	Upper
117	100		
82	65.9	56.1	84.1
119	32.6	25.0	37.6

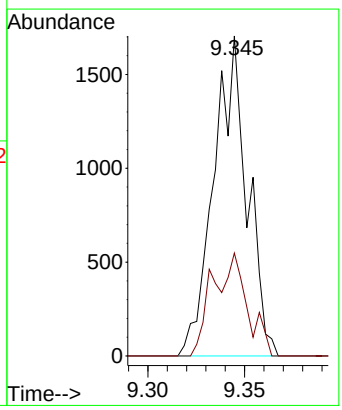


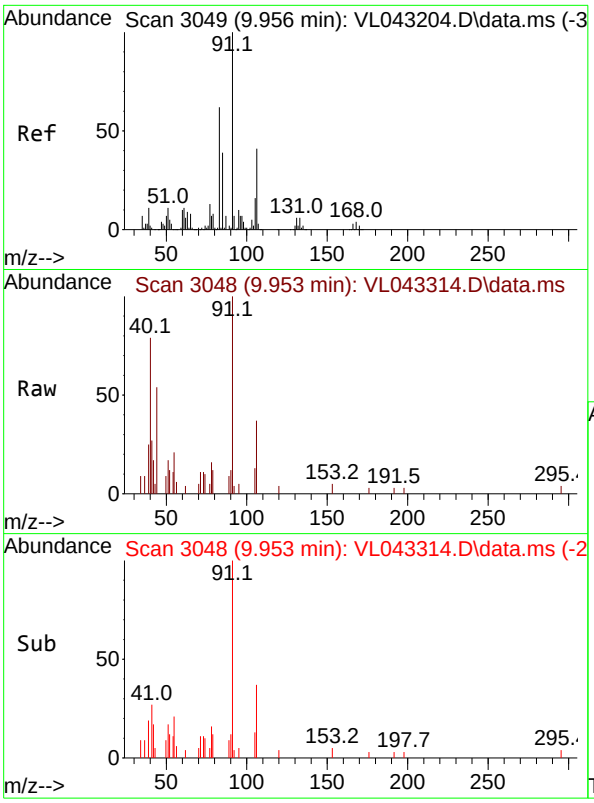


#58
Ethyl Benzene
Concen: 0.038 ppbv
RT: 9.345 min Scan# 2860
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 91 Resp: 2046

Ion	Ratio	Lower	Upper
91	100		
106	32.1	22.8	34.2



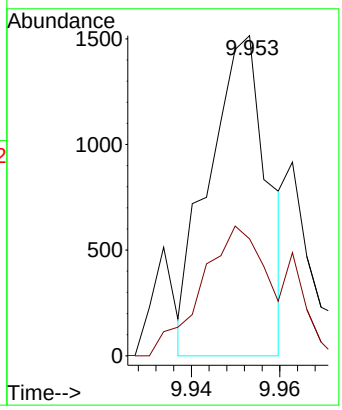


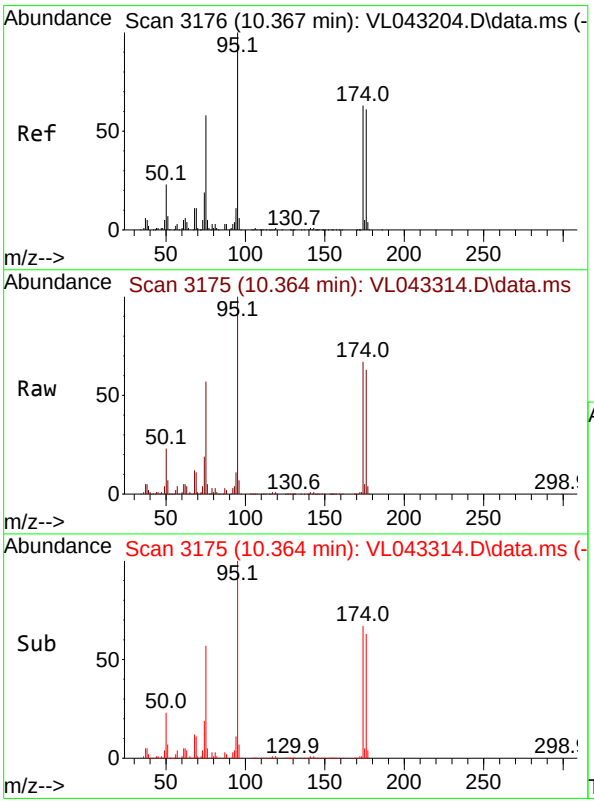
#60
o-Xylene
Concen: 0.032 ppbv
RT: 9.953 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion: 91 Resp: 1391

Ion	Ratio	Lower	Upper
91	100		
106	55.5	20.9	62.8

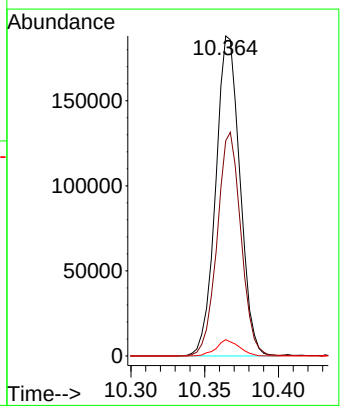


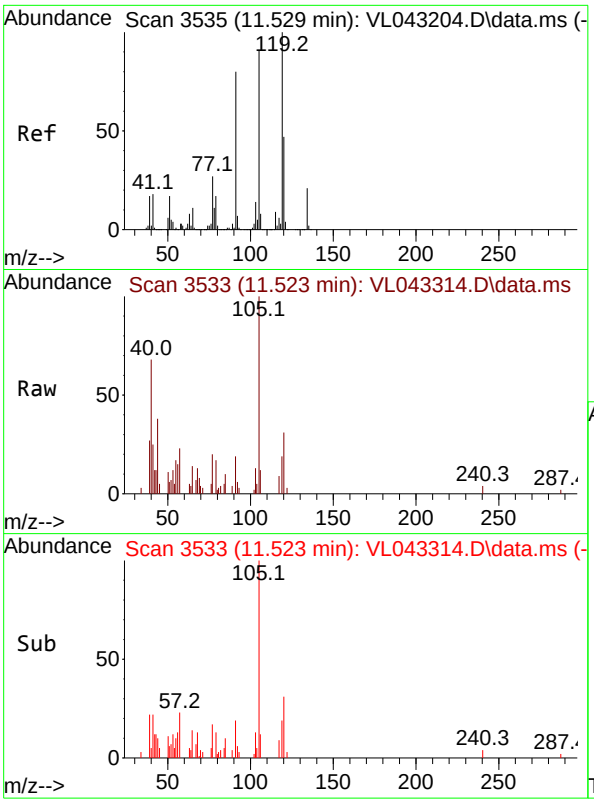


#68
1-Bromo-4-Fluorobenzene
Concen: 10.469 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion: 95 Resp: 214484

Ion	Ratio	Lower	Upper
95	100		
174	68.8	50.2	75.2
175	4.8	4.1	6.1



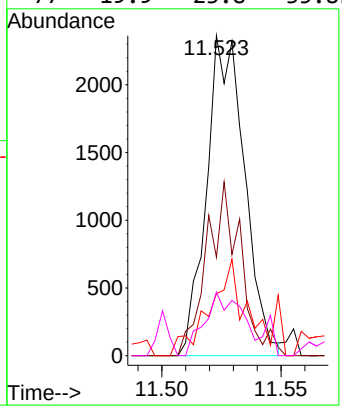


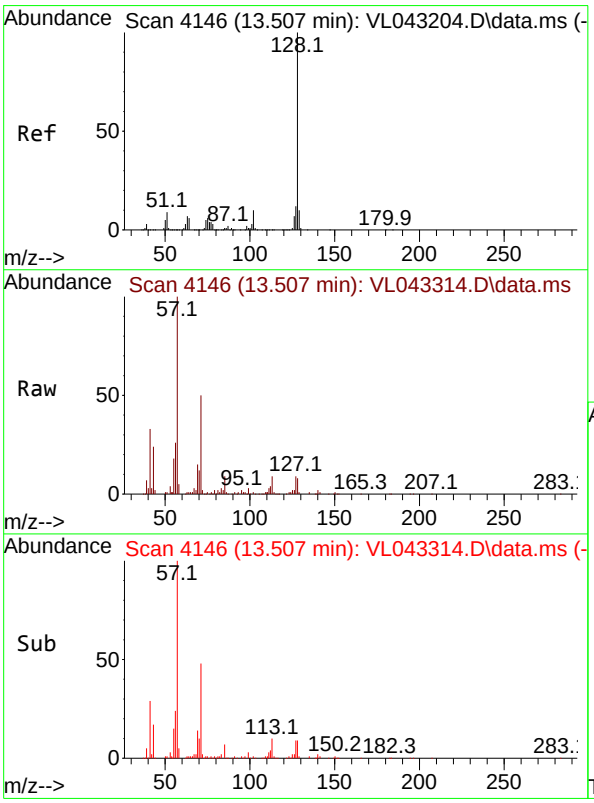
#74
1,2,4-Trimethylbenzene
Concen: 0.054 ppbv
RT: 11.523 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
11-IA-1

Tgt Ion:105 Resp: 2617

Ion	Ratio	Lower	Upper
105	100		
120	30.7	41.7	62.5#
91	13.4	70.0	105.0#
77	19.9	23.8	35.8#

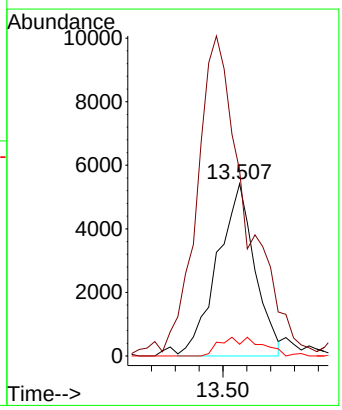




#79
Naphthalene
Concen: 0.138 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. -0.000 min
Lab File: VL043314.D
Acq: 08 Dec 2025 15:37

Tgt Ion:128 Resp: 5897

Ion	Ratio	Lower	Upper
128	100		
127	85.8	9.9	14.9#
129	6.9	8.4	12.6#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043315.D
Acq On : 08 Dec 2025 16:25
Operator : SY/MD
Sample : Q3799-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Quant Time: Dec 09 00:12:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.777	49	133616	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.943	114	344933	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.865	117	261904	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.361	95	195928	10.206	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.100%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	7550	0.401	ppbv		94
3) Chlorodifluoromethane	1.473	51	24896	1.343	ppbv	#	81
4) Chloromethane	1.528	50	3225	0.458	ppbv		93
9) Propene	1.486	41	6937	0.881	ppbv	#	1
11) Trichlorofluoromethane	1.874	101	4607	0.252	ppbv		94
12) 1,1,2-Trichlorotrifluo...	2.136	101	1083	0.076	ppbv		96
13) Ethanol	1.716	45	117047	42.294	ppbv		99
15) Acetone	1.829	43	65404	3.523	ppbv		100
16) 1,3-Butadiene	1.599	39	2213	0.267	ppbv	#	40
17) tert-Butyl alcohol	2.036	59	2347	0.096	ppbv		99
19) Isopropyl Alcohol	1.881	45	152976	14.583	ppbv	#	38
20) Methylene Chloride	2.056	84	8141	0.763	ppbv	#	96
23) Vinyl Acetate	2.447	43	2075	0.093	ppbv	#	62
25) Ethyl Acetate	2.819	43	32153	0.803	ppbv	#	82
26) Hexane	2.819	57	39916	2.274	ppbv	#	44
29) Chloroform	2.836	83	836	0.034	ppbv		89
34) 2-Butanone	2.551	43	6283	0.258	ppbv		99
36) Benzene	3.645	78	6800	0.206	ppbv		97
39) 1,2-Dichloropropane	3.943	63	88762	7.342	ppbv	#	24
53) Toluene	6.914	91	7294	0.186	ppbv		93
74) 1,2,4-Trimethylbenzene	11.526	105	2441	0.054	ppbv	#	51
75) 1,3-Dichlorobenzene	11.659	146	947	0.036	ppbv	#	79
76) 1,4-Dichlorobenzene	11.659	146	947	0.036	ppbv	#	79
79) Naphthalene	13.500	128	59509	1.488	ppbv	#	1
80) Naphthalene,2-methyl-	14.452	142	1880	0.179	ppbv	#	1

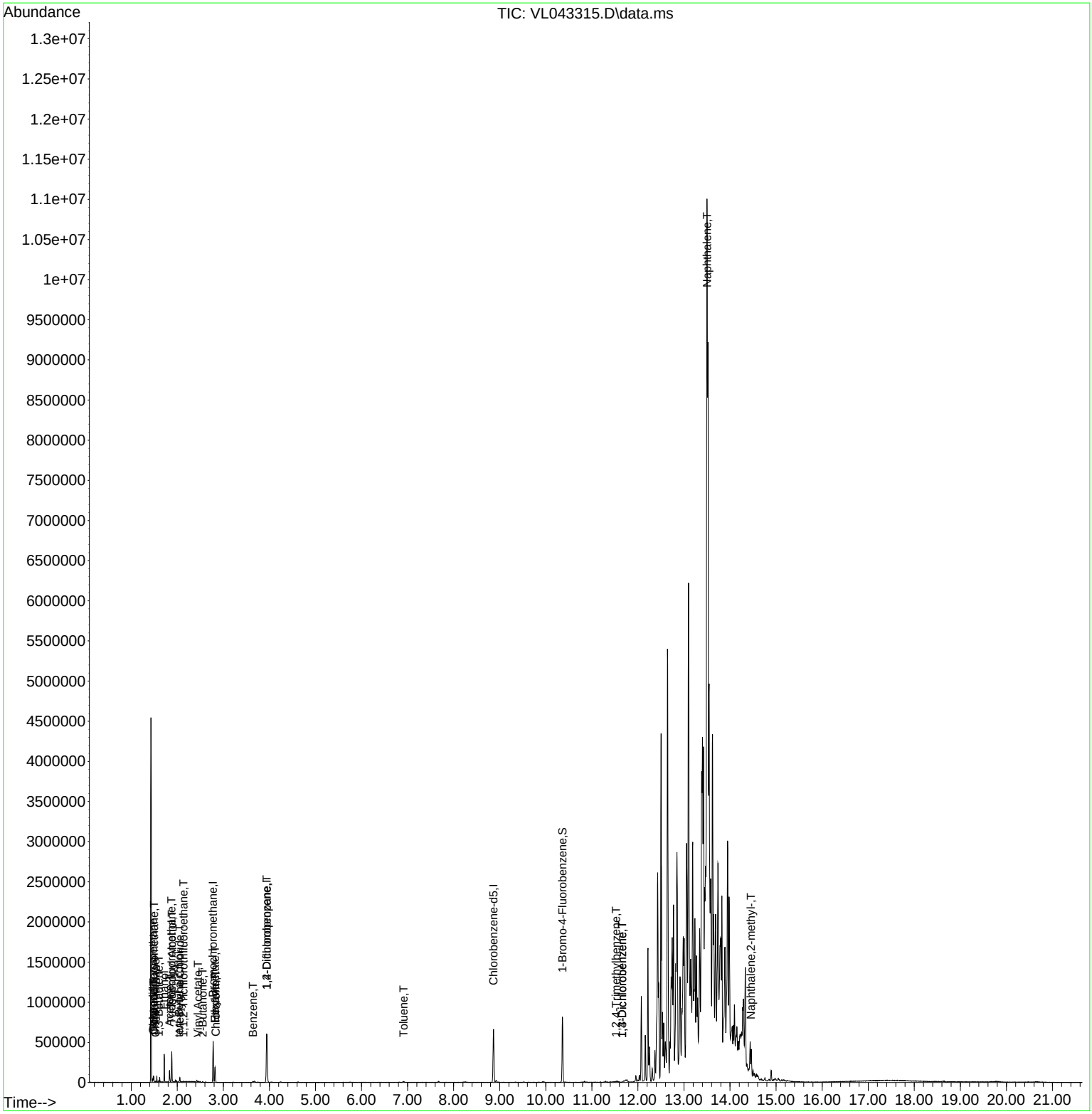
(#) = qualifier out of range (m) = manual integration (+) = signals summed

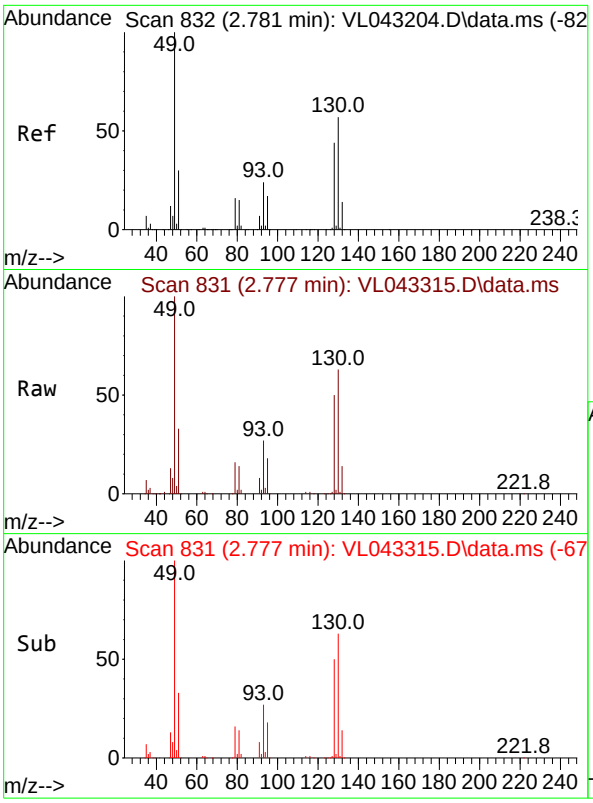
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043315.D
Acq On : 08 Dec 2025 16:25
Operator : SY/MD
Sample : Q3799-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Quant Time: Dec 09 00:12:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



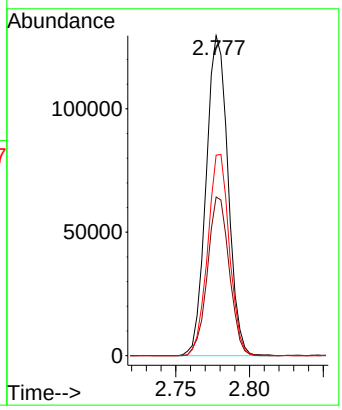


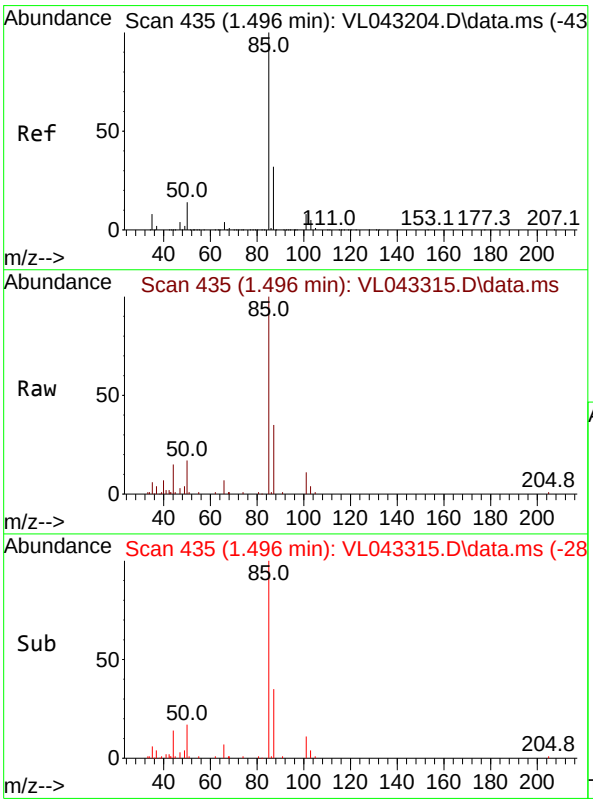
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 49 Resp: 133616

Ion	Ratio	Lower	Upper
49	100		
128	49.4	23.0	69.0
130	62.4	29.9	89.7

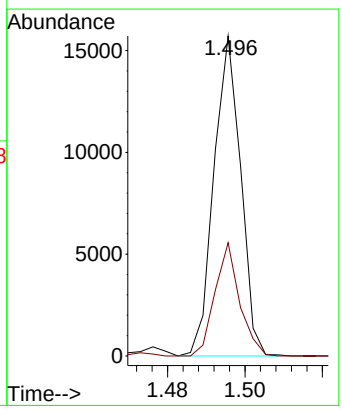


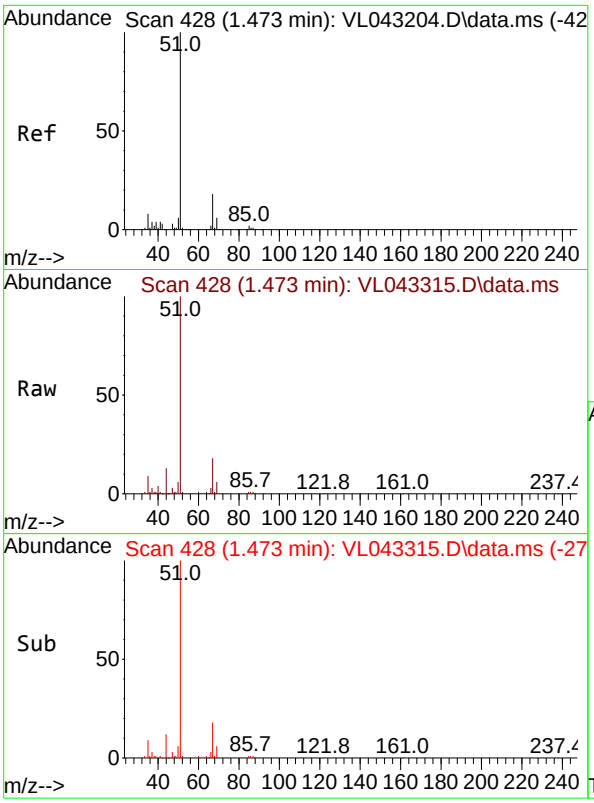


#2
Dichlorodifluoromethane
Concen: 0.401 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 85 Resp: 7550

Ion	Ratio	Lower	Upper
85	100		
87	35.4	25.4	38.2



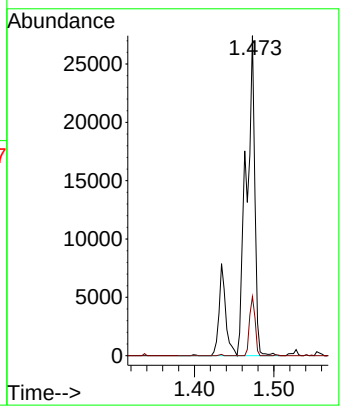


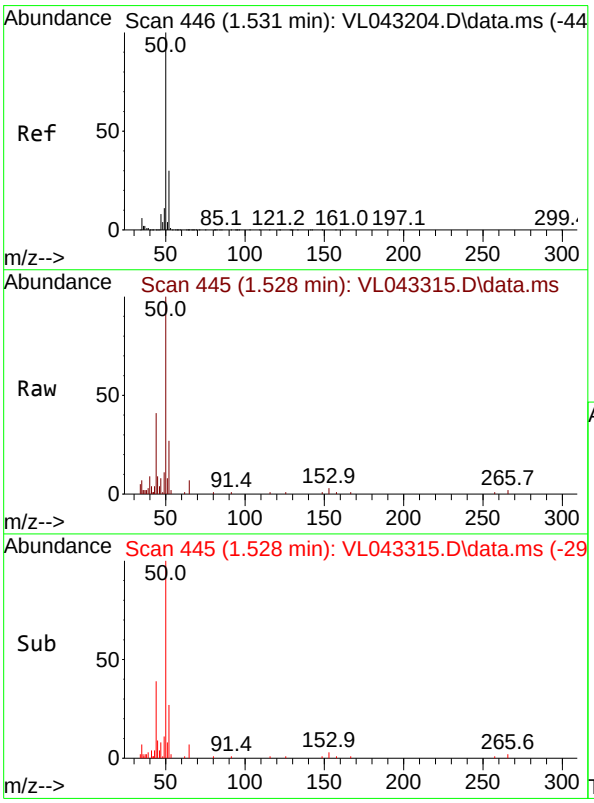
#3
Chlorodifluoromethane
Concen: 1.343 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 51 Resp: 24896

Ion	Ratio	Lower	Upper
51	100		
67	9.9	14.9	22.3#

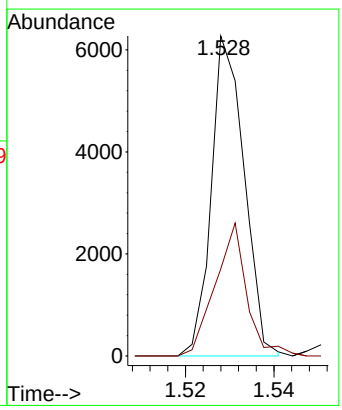


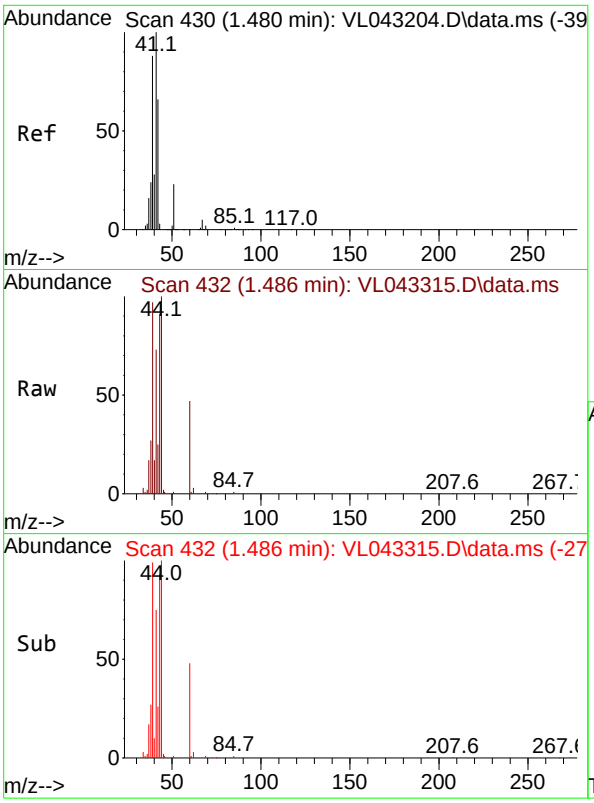


#4
Chloromethane
Concen: 0.458 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 50 Resp: 3225

Ion	Ratio	Lower	Upper
50	100		
52	26.3	24.1	36.1



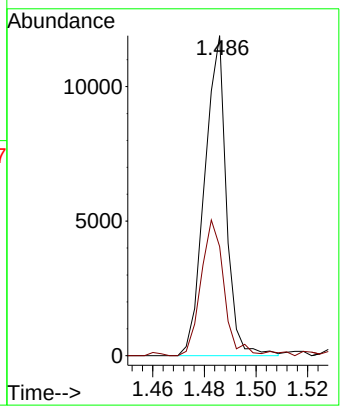


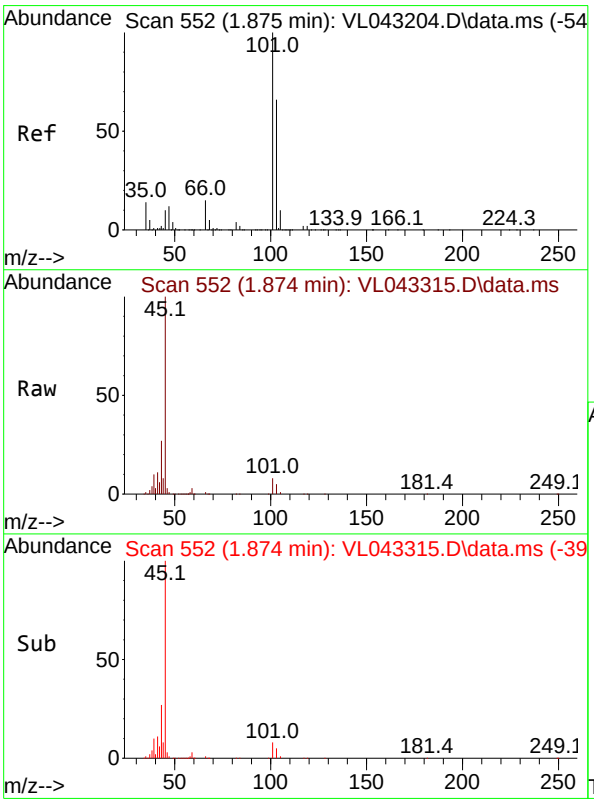
#9
Propene
Concen: 0.881 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 41 Resp: 6937

Ion	Ratio	Lower	Upper
41	100		
42	45.2	3.7	5.5#

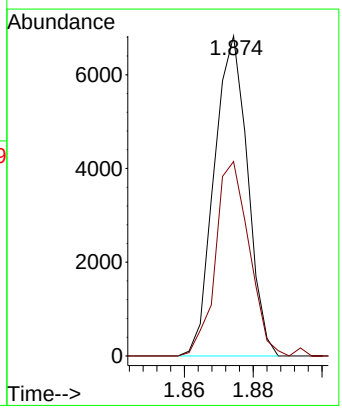


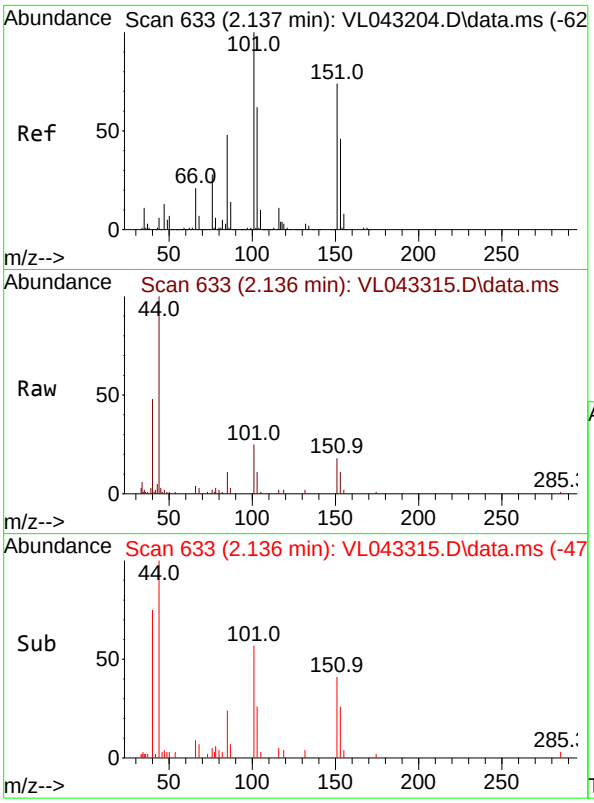


#11
Trichlorofluoromethane
Concen: 0.252 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion:101 Resp: 4607

Ion	Ratio	Lower	Upper
101	100		
103	60.7	52.6	79.0



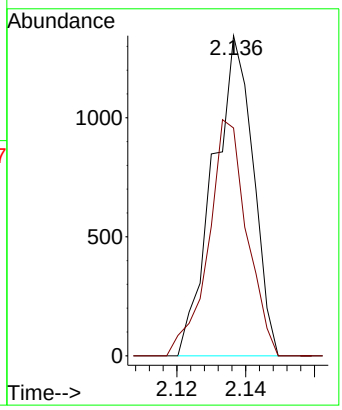


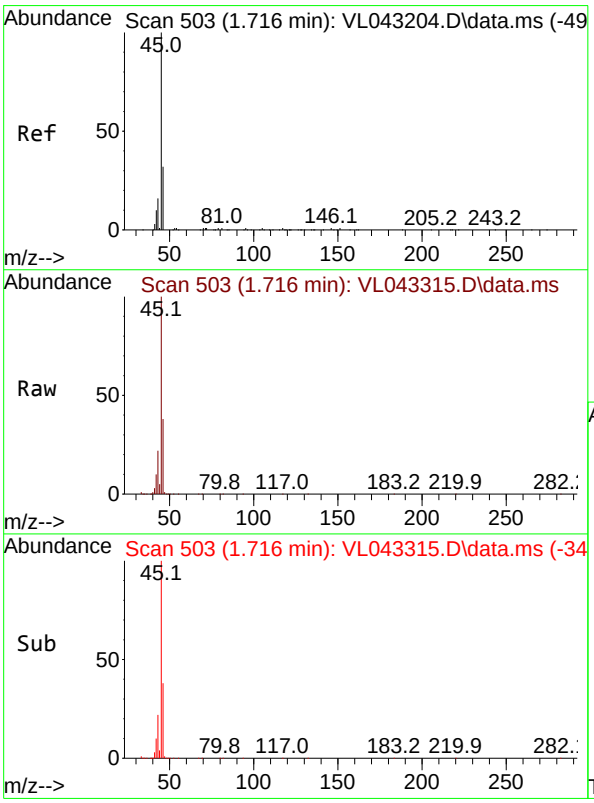
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.076 ppbv
RT: 2.136 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion:101 Resp: 1083

Ion	Ratio	Lower	Upper
101	100		
151	70.9	59.2	88.8

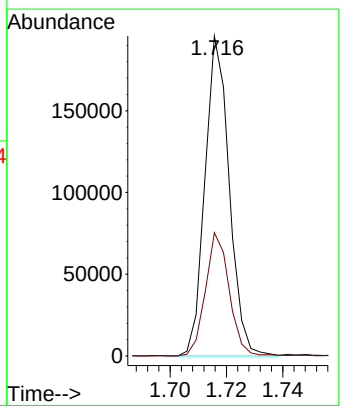


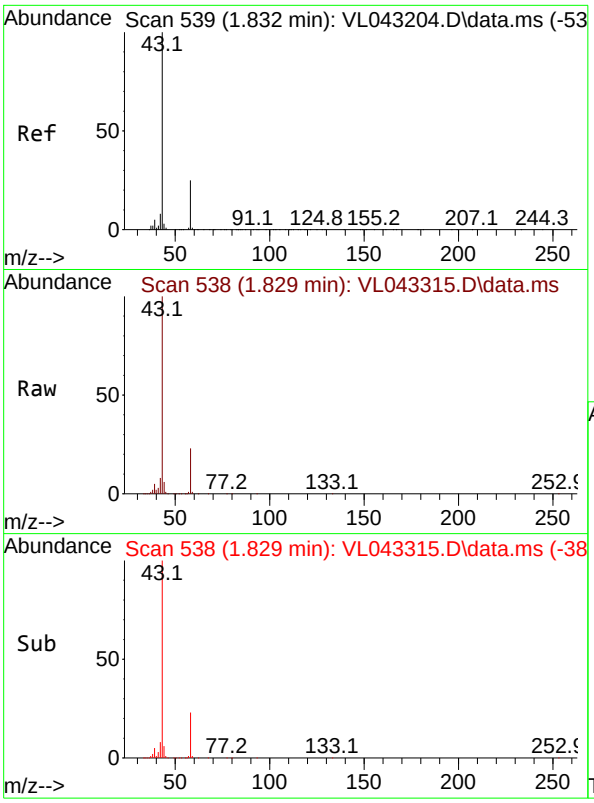


#13
Ethanol
Concen: 42.294 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 45 Resp: 117047

Ion	Ratio	Lower	Upper
45	100		
46	38.1	15.0	59.8



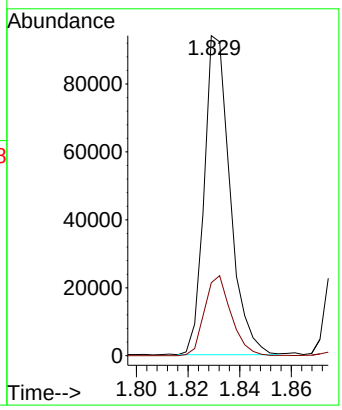


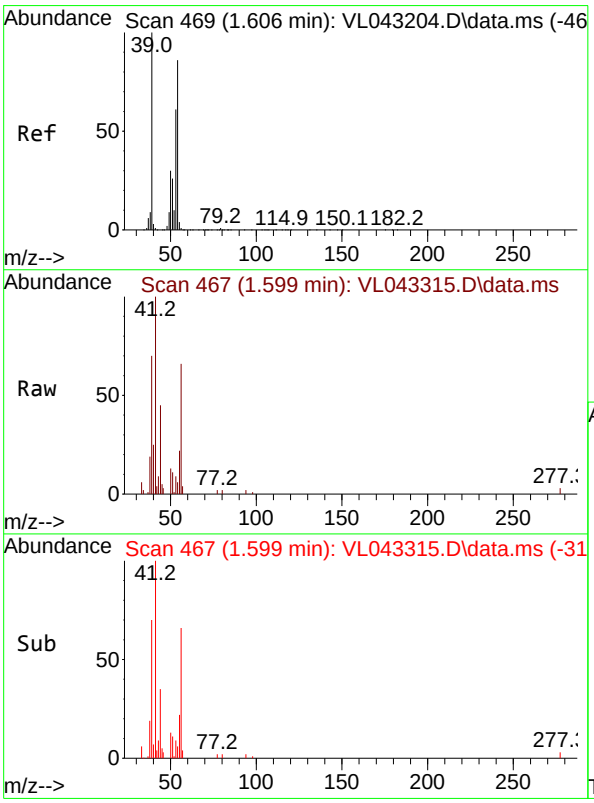
#15
Acetone
Concen: 3.523 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 43 Resp: 65404

Ion	Ratio	Lower	Upper
43	100		
58	25.8	20.7	31.1

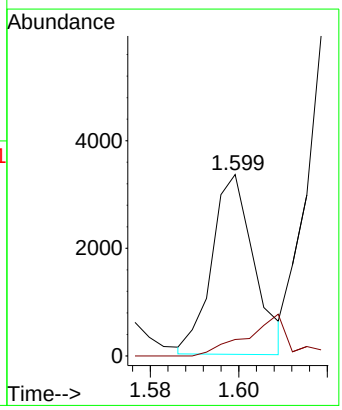


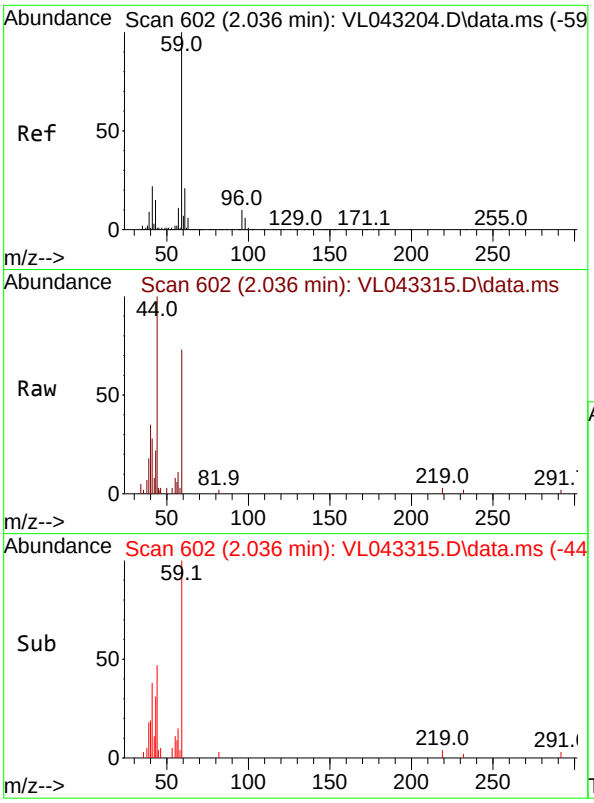


#16
1,3-Butadiene
Concen: 0.267 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 39 Resp: 2213

Ion	Ratio	Lower	Upper
39	100		
54	23.1	59.4	89.2#



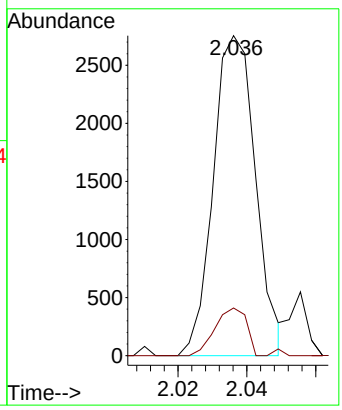


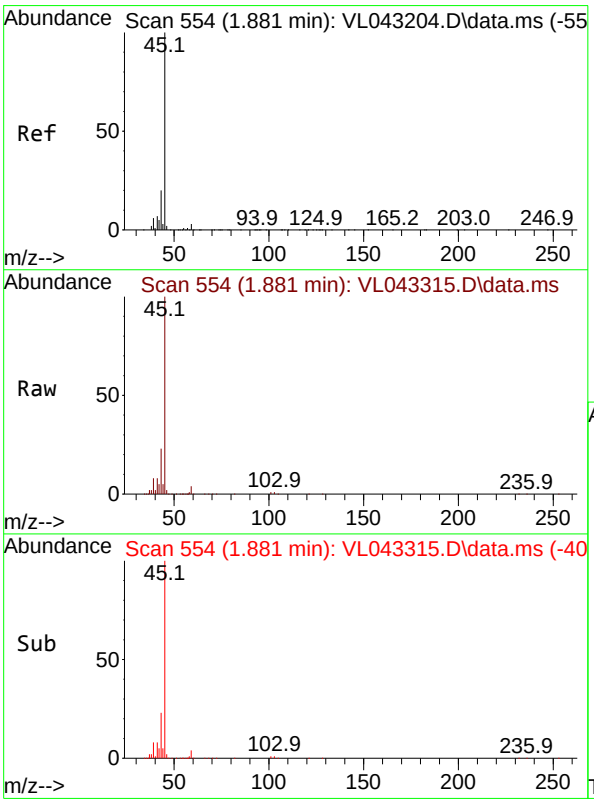
#17
tert-Butyl alcohol
Concen: 0.096 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 59 Resp: 2347

Ion	Ratio	Lower	Upper
59	100		
57	11.6	9.0	13.4

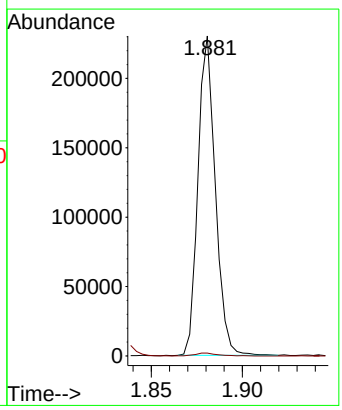


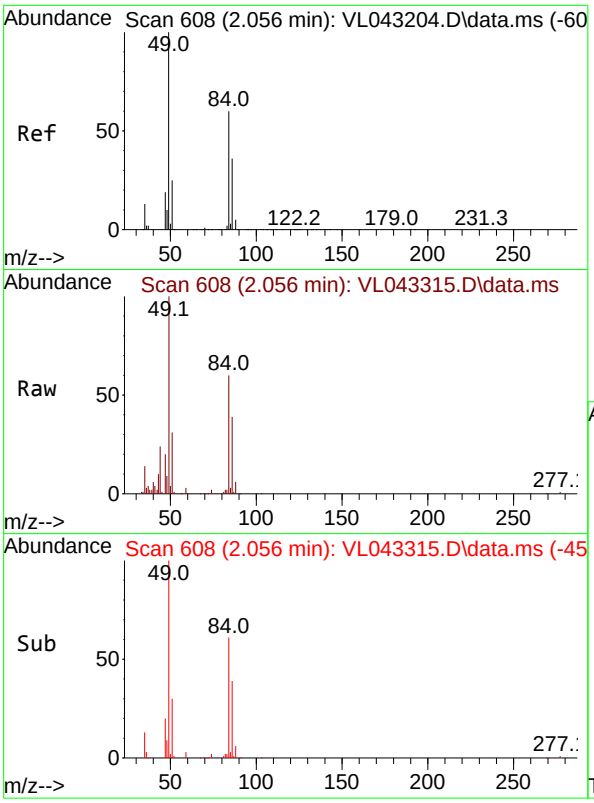


#19
Isopropyl Alcohol
Concen: 14.583 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 45 Resp: 152976

Ion	Ratio	Lower	Upper
45	100		
58	1.2	31.3	46.9#



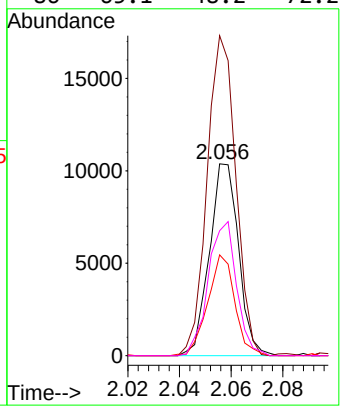


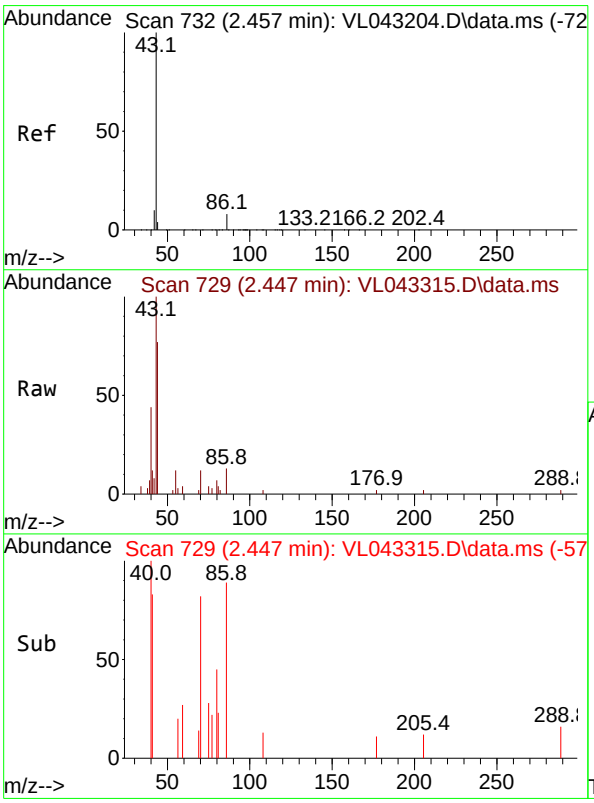
#20
Methylene Chloride
Concen: 0.763 ppbv
RT: 2.056 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 84 Resp: 8141

Ion	Ratio	Lower	Upper
84	100		
49	166.8	132.9	199.3
51	52.5	34.8	52.2#
86	65.1	48.2	72.2

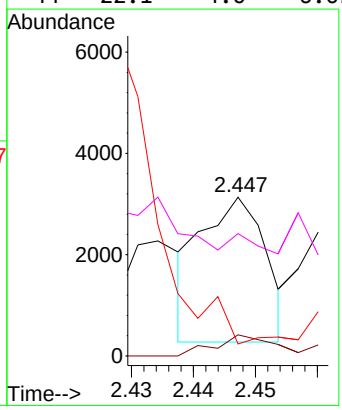


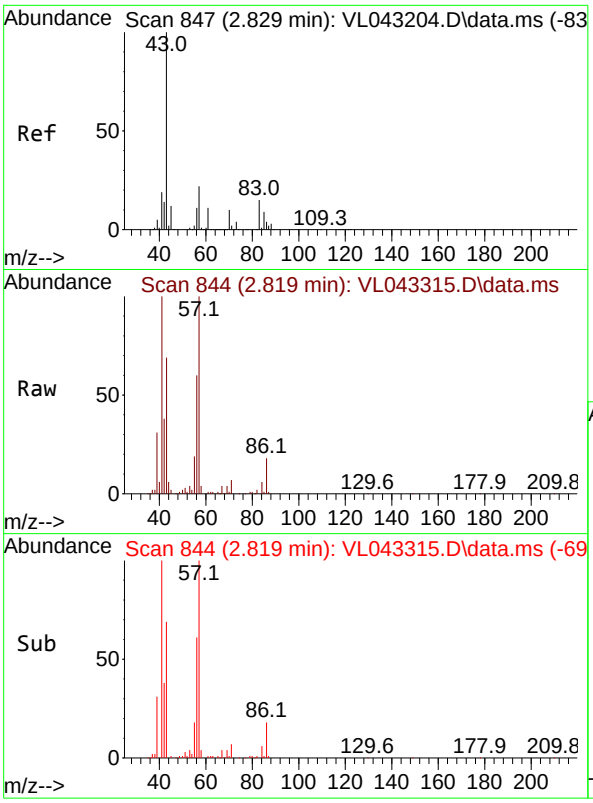


#23
Vinyl Acetate
Concen: 0.093 ppbv
RT: 2.447 min Scan# 729
Delta R.T. -0.010 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 43 Resp: 2075

Ion	Ratio	Lower	Upper
43	100		
86	23.0	6.2	9.2#
42	0.0	8.0	12.0#
44	22.1	4.0	6.0#



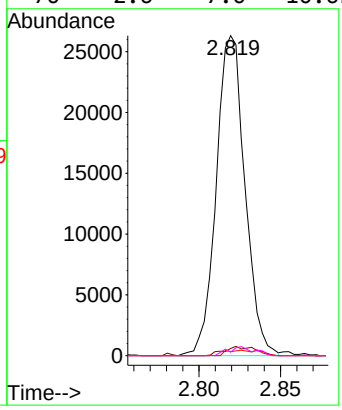


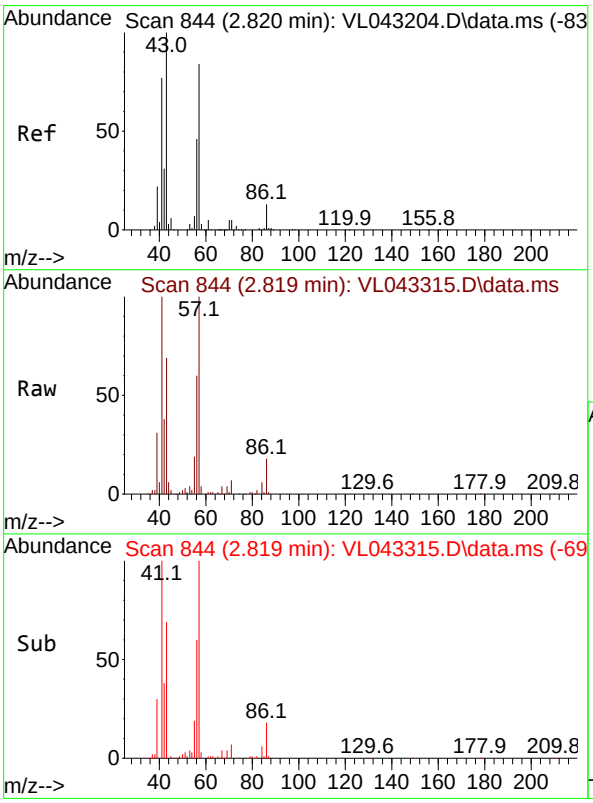
#25
Ethyl Acetate
Concen: 0.803 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 43 Resp: 32153

Ion	Ratio	Lower	Upper
43	100		
45	3.3	8.1	12.1#
61	1.9	7.0	10.4#
70	2.6	7.0	10.6#

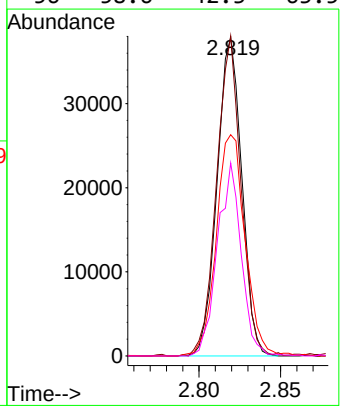


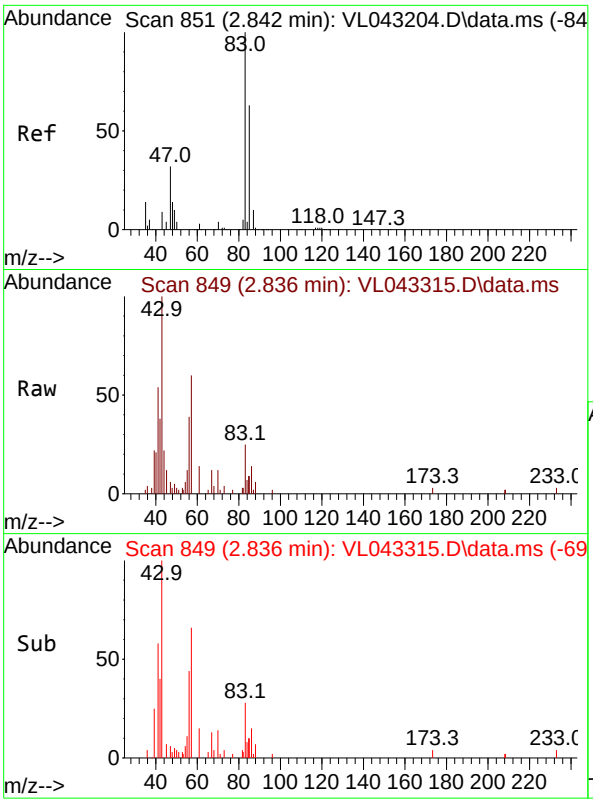


#26
Hexane
Concen: 2.274 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 57 Resp: 39916

Ion	Ratio	Lower	Upper
57	100		
41	100.1	74.6	111.8
43	81.2	179.0	268.4#
56	58.6	42.3	63.5



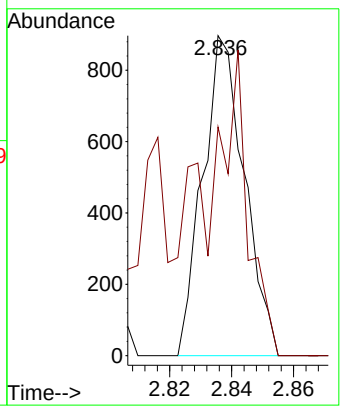


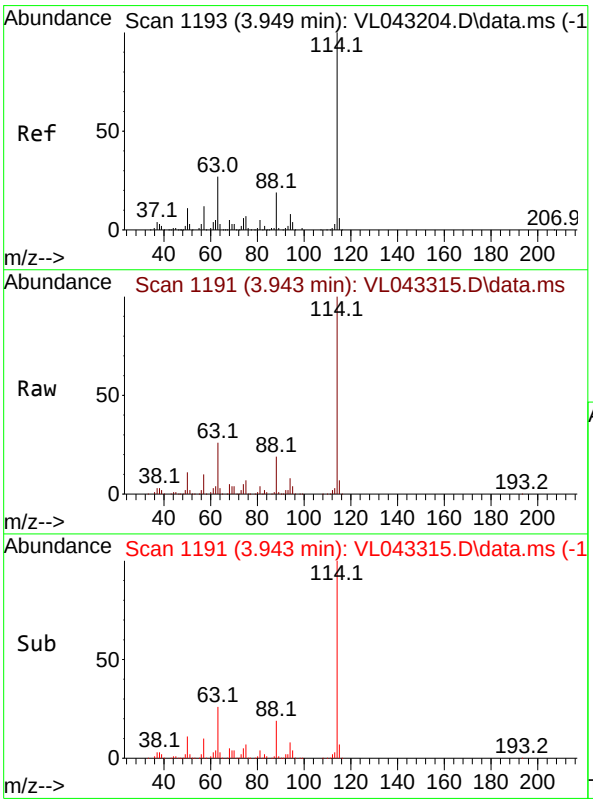
#29
Chloroform
Concen: 0.034 ppbv
RT: 2.836 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 83 Resp: 836

Ion	Ratio	Lower	Upper
83	100		
85	71.5	50.5	75.7

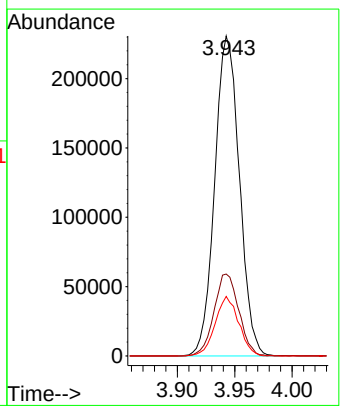


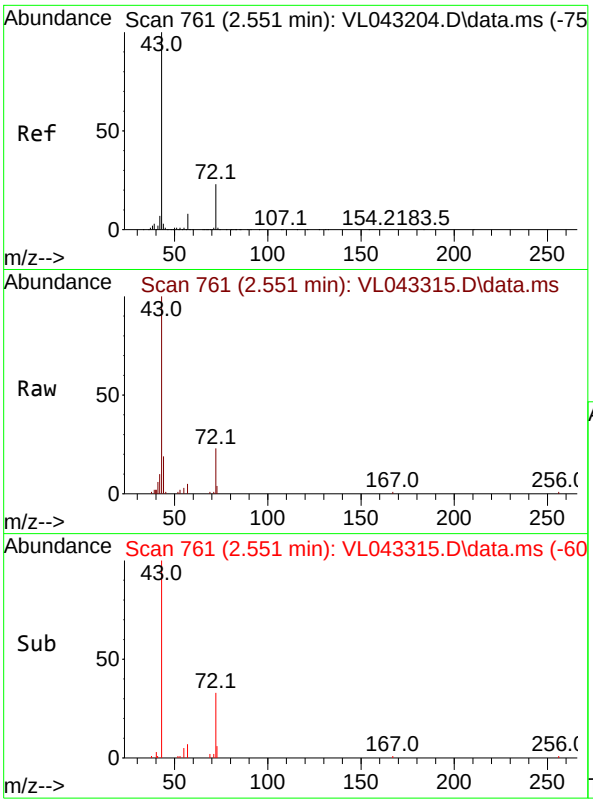


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 1191
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion:114 Resp: 344933

Ion	Ratio	Lower	Upper
114	100		
63	25.8	21.0	31.6
88	17.8	14.9	22.3



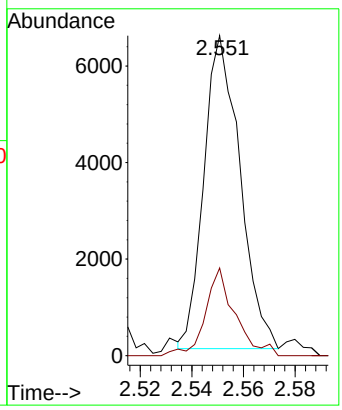


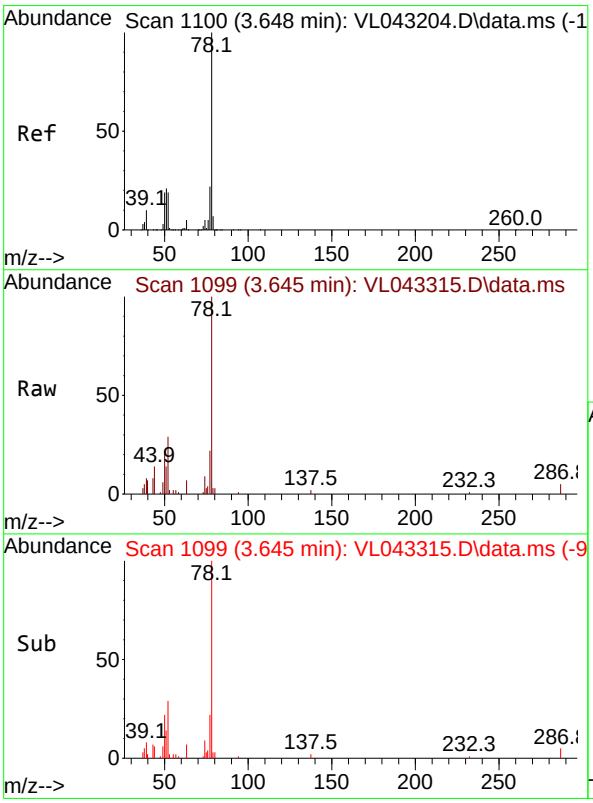
#34
2-Butanone
Concen: 0.258 ppbv
RT: 2.551 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 43 Resp: 6283

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.1	27.1

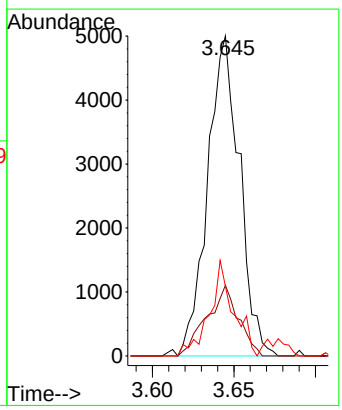


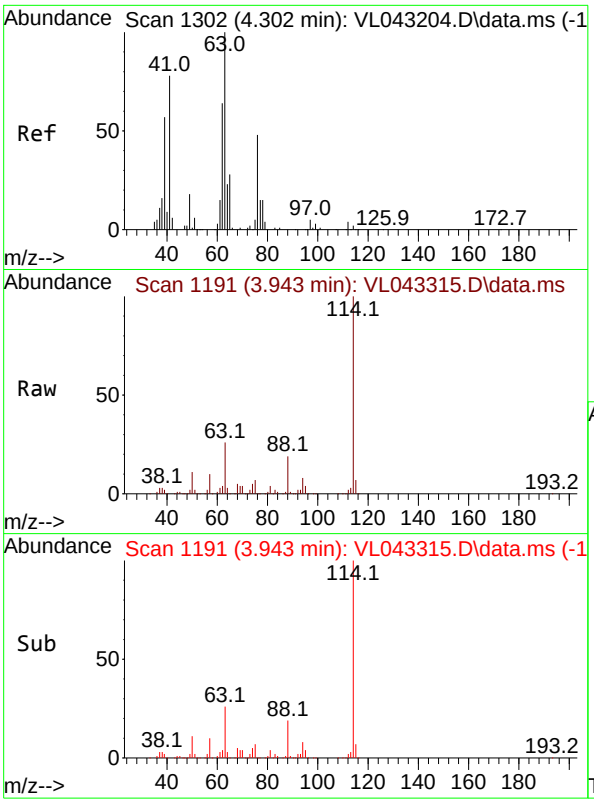


#36
Benzene
Concen: 0.206 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.003 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 78 Resp: 6800

Ion	Ratio	Lower	Upper
78	100		
77	22.1	17.5	26.3
50	21.8	15.5	23.3



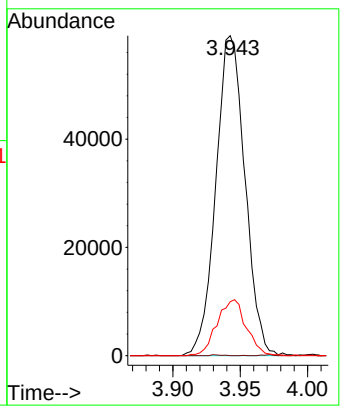


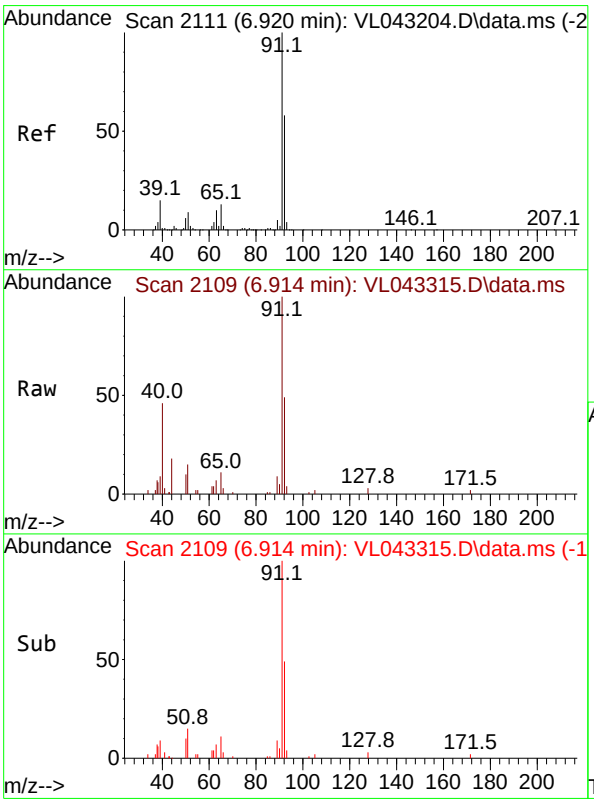
#39
1,2-Dichloropropane
Concen: 7.342 ppbv
RT: 3.943 min Scan# 1
Delta R.T. -0.359 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 63 Resp: 88762

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.6	93.8#
62	16.9	51.0	76.6#

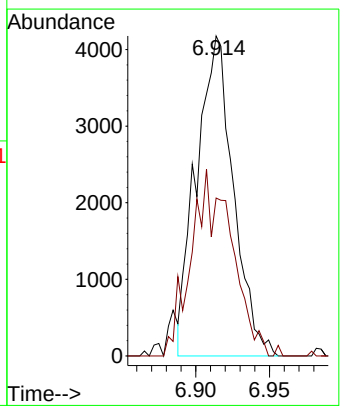


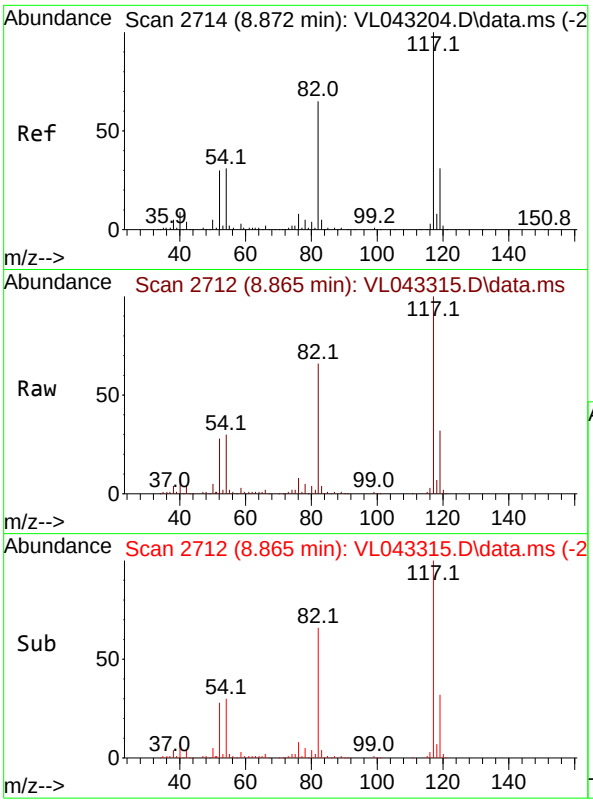


#53
Toluene
Concen: 0.186 ppbv
RT: 6.914 min Scan# 2109
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 91 Resp: 7294

Ion	Ratio	Lower	Upper
91	100		
92	64.2	47.4	71.0



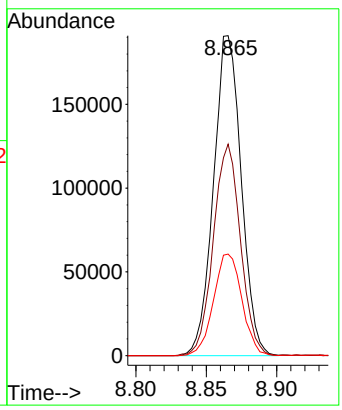


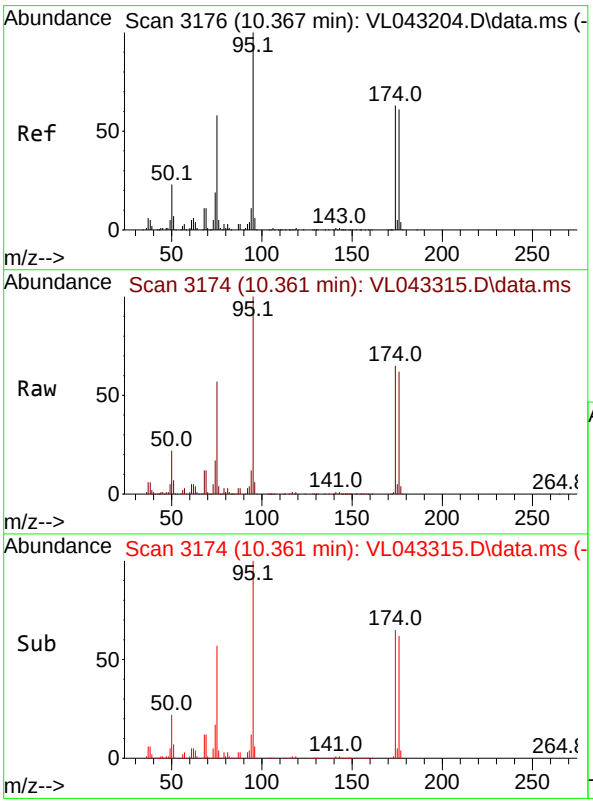
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.865 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion:117 Resp: 261904

Ion	Ratio	Lower	Upper
117	100		
82	64.6	56.1	84.1
119	32.6	25.0	37.6

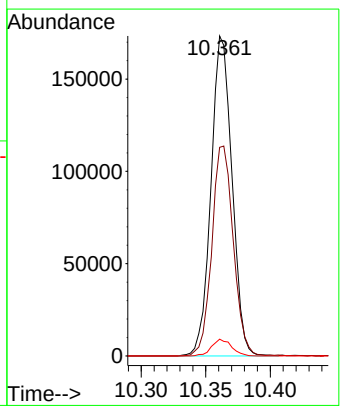


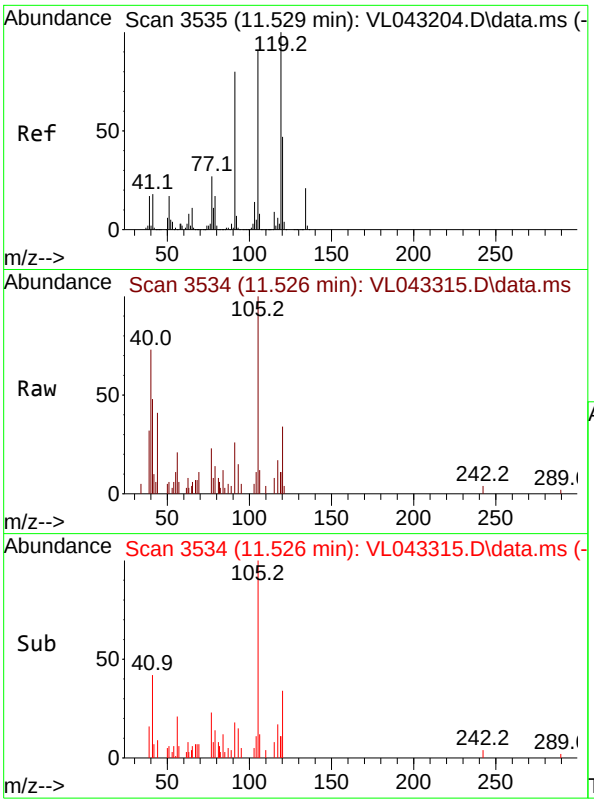


#68
1-Bromo-4-Fluorobenzene
Concen: 10.206 ppbv
RT: 10.361 min Scan# 3174
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion: 95 Resp: 195928

Ion	Ratio	Lower	Upper
95	100		
174	67.0	50.2	75.2
175	5.0	4.1	6.1



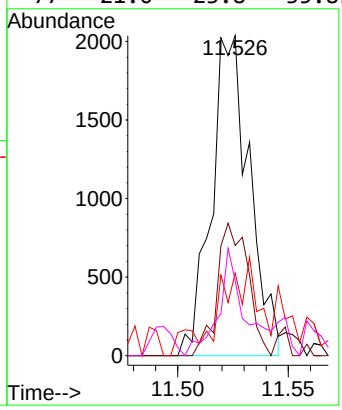


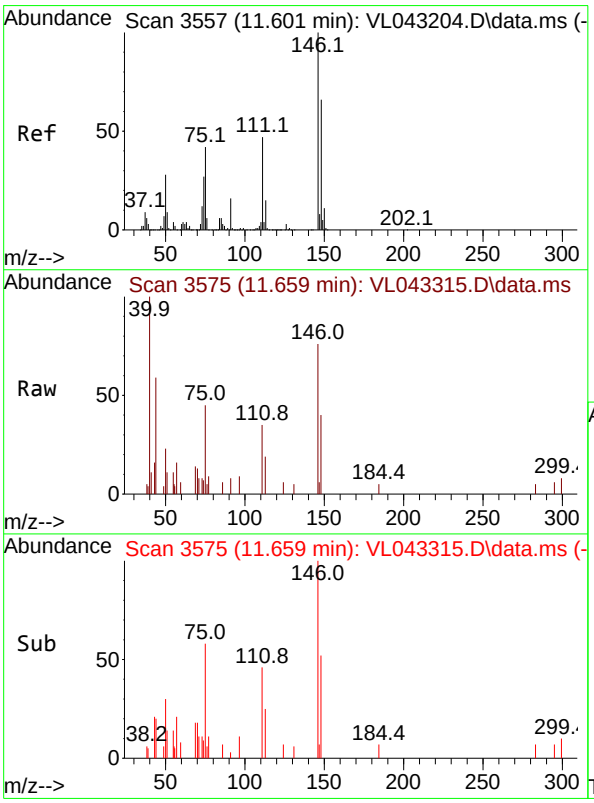
#74
1,2,4-Trimethylbenzene
Concen: 0.054 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion:105 Resp: 2441

Ion	Ratio	Lower	Upper
105	100		
120	34.5	41.7	62.5#
91	18.6	70.0	105.0#
77	21.0	23.8	35.8#

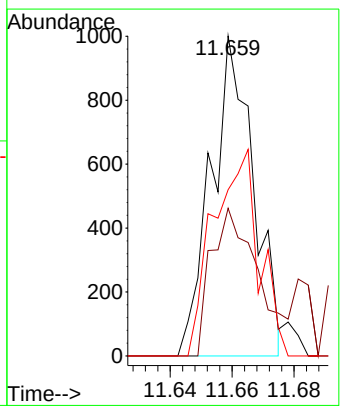


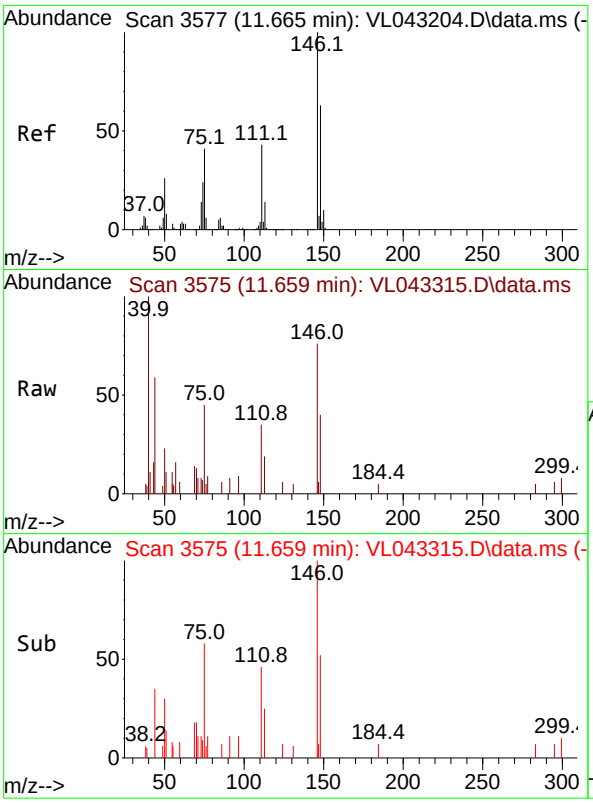


#75
1,3-Dichlorobenzene
Concen: 0.036 ppbv
RT: 11.659 min Scan# 3575
Delta R.T. 0.058 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion:146 Resp: 947

Ion	Ratio	Lower	Upper
146	100		
111	72.0	23.4	70.3#
148	69.5	31.6	95.0



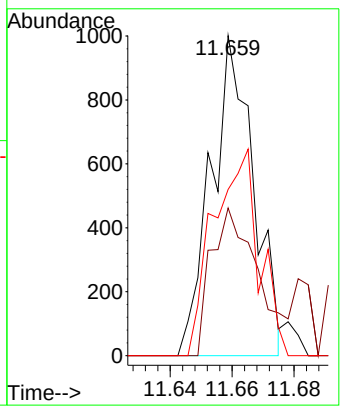


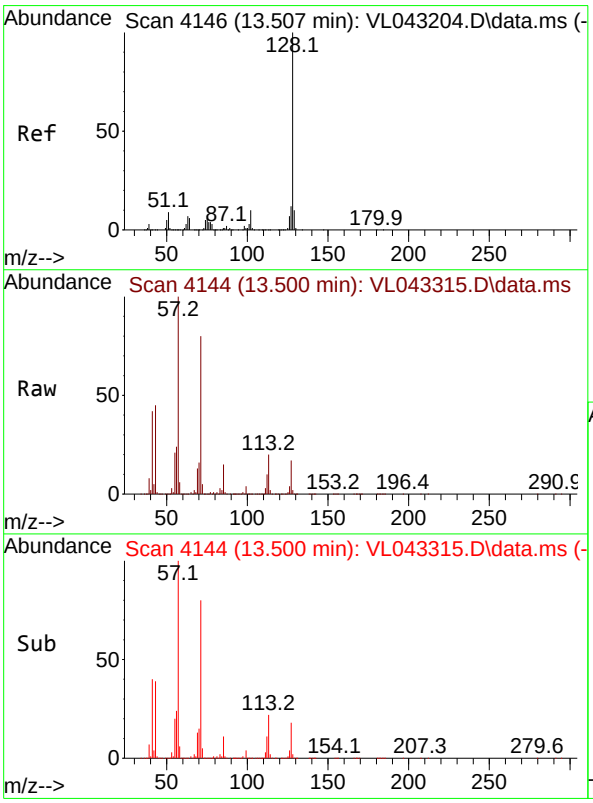
#76
1,4-Dichlorobenzene
Concen: 0.036 ppbv
RT: 11.659 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion:146 Resp: 947

Ion	Ratio	Lower	Upper
146	100		
111	72.0	22.8	68.3#
148	69.5	31.8	95.4

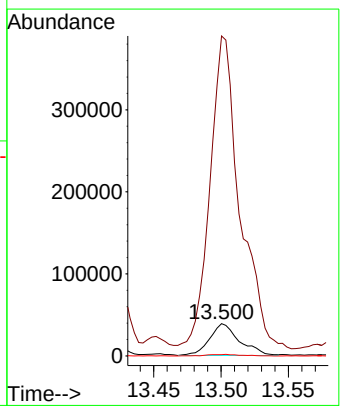


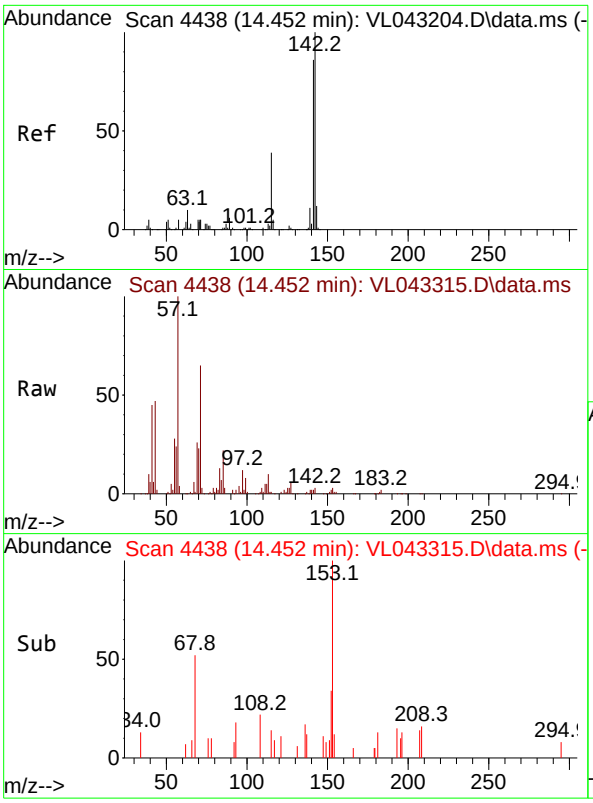


#79
Naphthalene
Concen: 1.488 ppbv
RT: 13.500 min Scan# 4144
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion:128 Resp: 59509

Ion	Ratio	Lower	Upper
128	100		
127	975.9	9.9	14.9#
129	3.9	8.4	12.6#



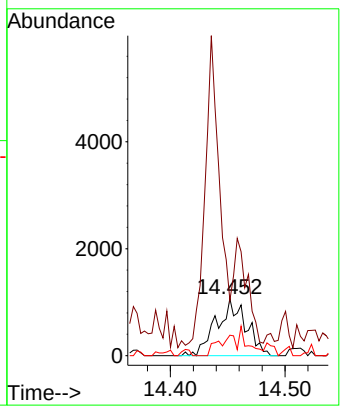


#80
Naphthalene,2-methyl-
Concen: 0.179 ppbv
RT: 14.452 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion:142 Resp: 1880

Ion	Ratio	Lower	Upper
142	100		
141	382.4	67.1	100.7#
115	45.4	31.9	47.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043316.D
Acq On : 08 Dec 2025 17:00
Operator : SY/MD
Sample : Q3799-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Quant Time: Dec 09 00:13:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

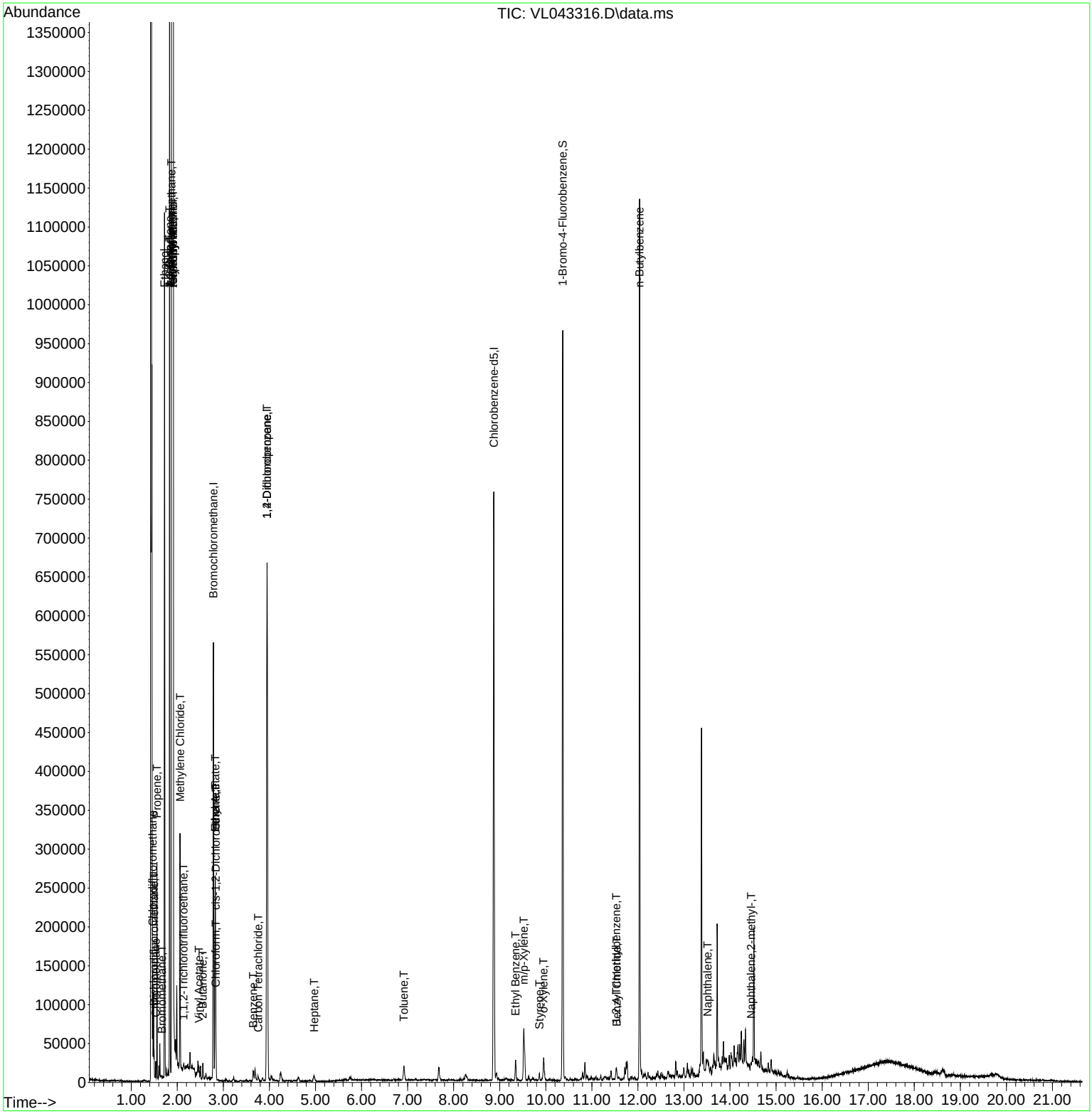
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	146093	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.949	114	393021	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.872	117	306652	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	232936	10.363	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	8618	0.418	ppbv		92
3) Chlorodifluoromethane	1.466	51	58484	2.886	ppbv	#	62
4) Chloromethane	1.531	50	5664	0.735	ppbv		98
6) Bromomethane	1.667	94	156	0.038	ppbv	#	4
9) Propene	1.560	41	27719	3.221	ppbv	#	1
10) Heptane	4.972	43	1069	0.042	ppbv	#	28
11) Trichlorofluoromethane	1.874	101	4165	0.209	ppbv		86
12) 1,1,2-Trichlorotrifluo...	2.136	101	1349	0.087	ppbv		86
13) Ethanol	1.722	45	462202	152.750	ppbv		99
15) Acetone	1.832	43	604849	29.800	ppbv		97
16) 1,3-Butadiene	1.832	39	29138	3.220	ppbv	#	14
17) tert-Butyl alcohol	1.910	59	1075072	40.352	ppbv	#	92
19) Isopropyl Alcohol	1.910	45	7888776	687.812	ppbv	#	38
20) Methylene Chloride	2.062	84	44935	7.301	ppbv		89
21) Allyl Chloride	1.910	41	2138169	156.575	ppbv	#	74
23) Vinyl Acetate	2.470	43	3183	0.130	ppbv	#	33
25) Ethyl Acetate	2.826	43	77111	1.761	ppbv	#	93
26) Hexane	2.826	57	52020	2.710	ppbv	#	72
29) Chloroform	2.839	83	1029	0.038	ppbv		85
31) cis-1,2-Dichloroethene	2.832	61	4180	0.219	ppbv	#	26
34) 2-Butanone	2.554	43	12307	0.444	ppbv		99
35) Carbon Tetrachloride	3.755	117	1777	0.060	ppbv	#	83
36) Benzene	3.648	78	7554	0.201	ppbv		95
39) 1,2-Dichloropropane	3.949	63	96525	7.007	ppbv	#	25
53) Toluene	6.920	91	11377	0.255	ppbv		100
58) Ethyl Benzene	9.344	91	13162	0.223	ppbv		93
59) m/p-Xylene	9.523	91	42461	0.897	ppbv		97
60) o-Xylene	9.953	91	11276	0.239	ppbv		90
61) Styrene	9.862	104	2334	0.113	ppbv		97
66) Benzyl Chloride	11.542	91	558	0.073	ppbv	#	78
70) n-Butylbenzene	12.034	91	48515	0.560	ppbv	#	65
74) 1,2,4-Trimethylbenzene	11.529	105	2546	0.048	ppbv	#	48
79) Naphthalene	13.510	128	2251	0.048	ppbv	#	85
80) Naphthalene,2-methyl-	14.458	142	1788	0.145	ppbv	#	86

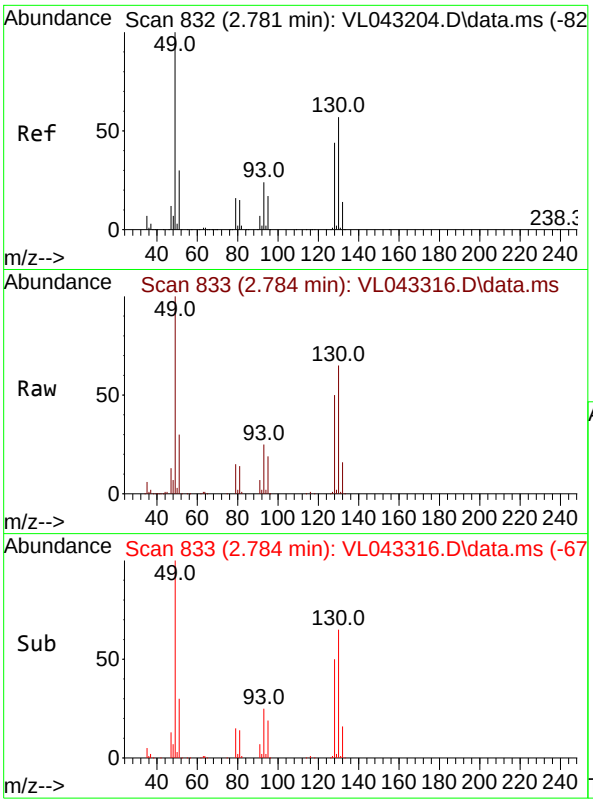
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043316.D
Acq On : 08 Dec 2025 17:00
Operator : SY/MD
Sample : Q3799-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Quant Time: Dec 09 00:13:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



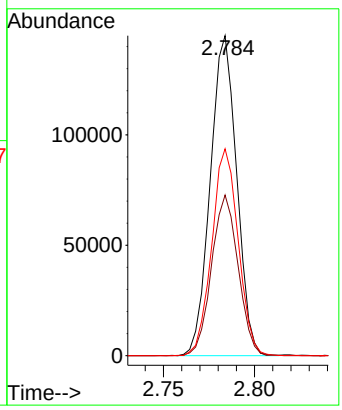


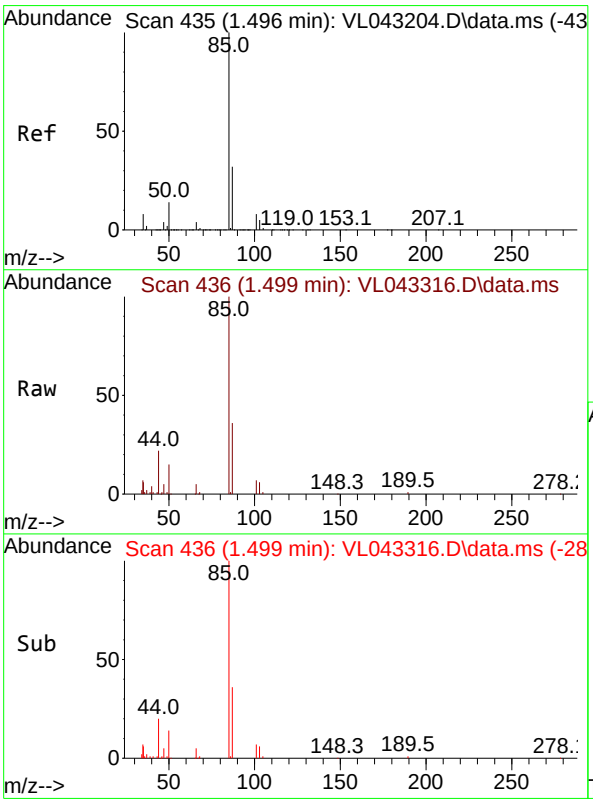
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 49 Resp: 146093

Ion	Ratio	Lower	Upper
49	100		
128	50.3	23.0	69.0
130	64.6	29.9	89.7

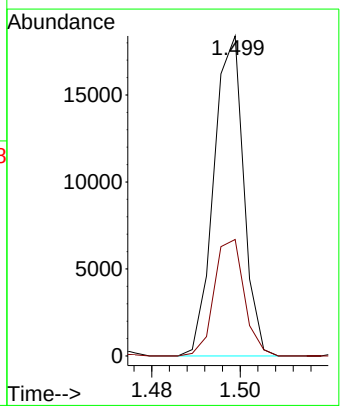


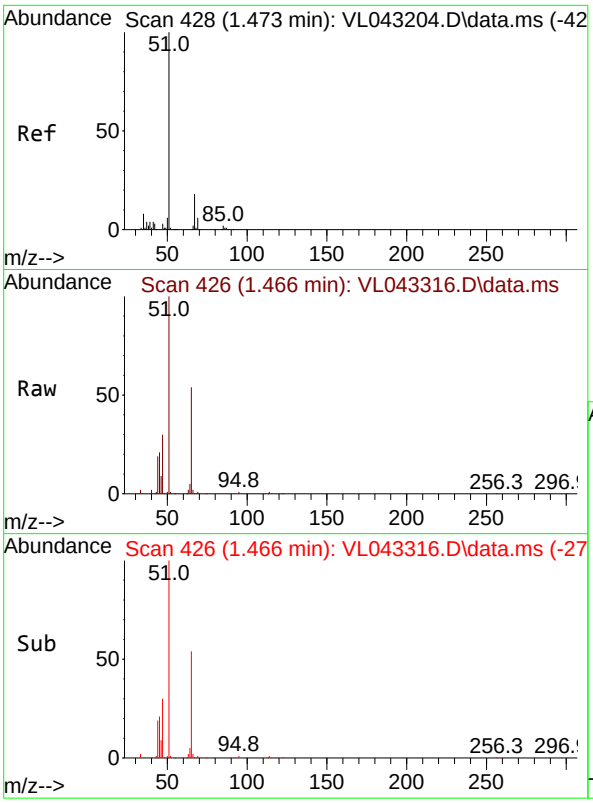


#2
Dichlorodifluoromethane
Concen: 0.418 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 85 Resp: 8618

Ion	Ratio	Lower	Upper
85	100		
87	36.4	25.4	38.2



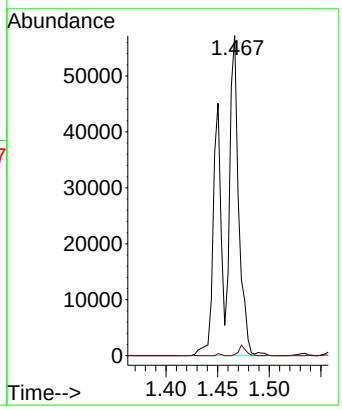


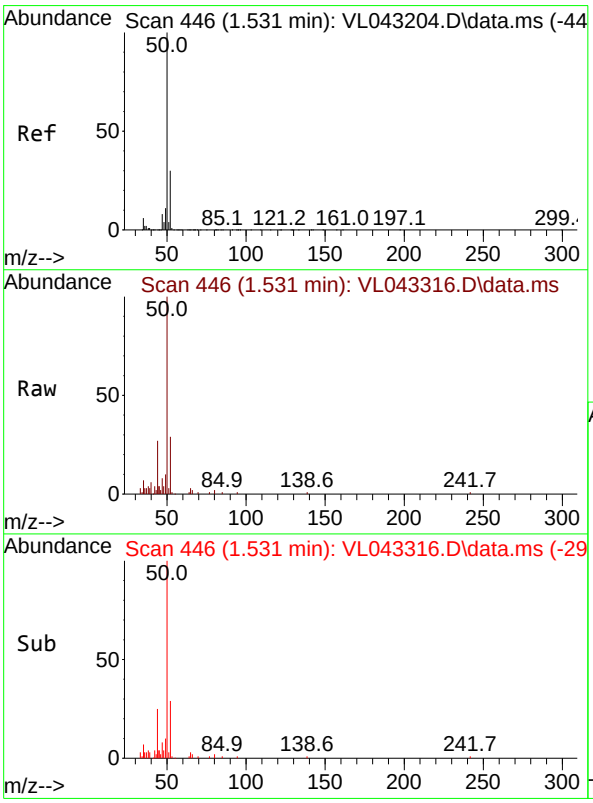
#3
Chlorodifluoromethane
Concen: 2.886 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 51 Resp: 58484

Ion	Ratio	Lower	Upper
51	100		
67	1.7	14.9	22.3#

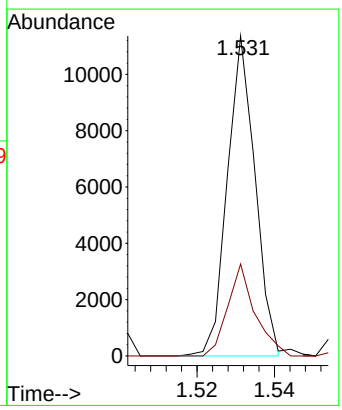


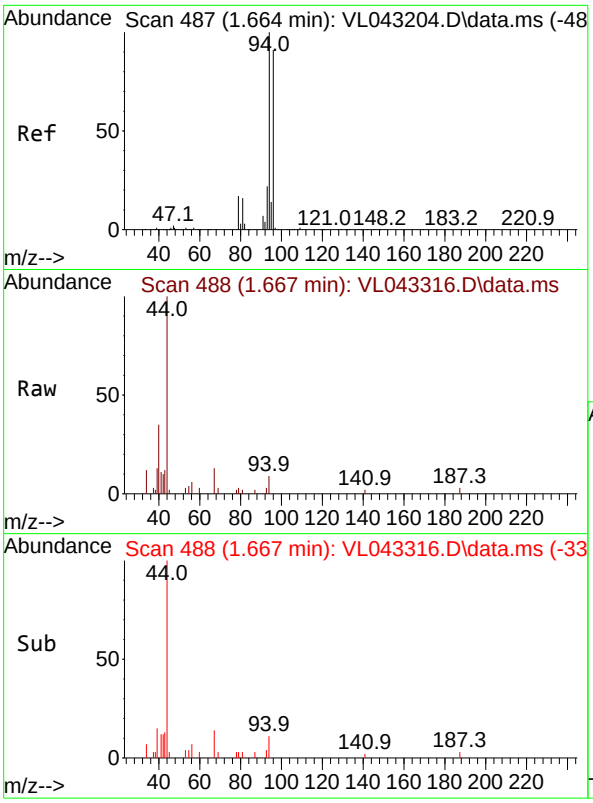


#4
Chloromethane
Concen: 0.735 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 50 Resp: 5664

Ion	Ratio	Lower	Upper
50	100		
52	28.7	24.1	36.1



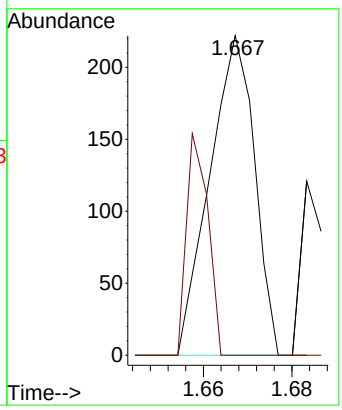


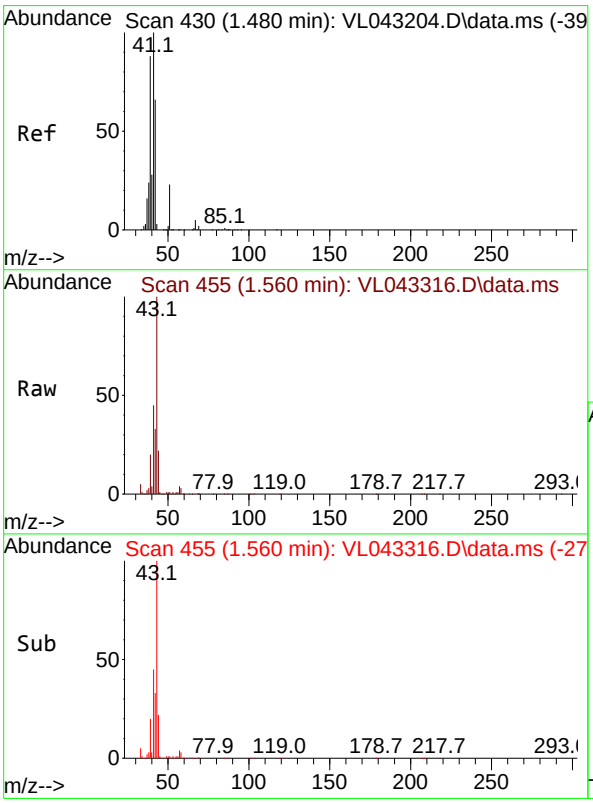
#6
Bromomethane
Concen: 0.038 ppbv
RT: 1.667 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 94 Resp: 156

Ion	Ratio	Lower	Upper
94	100		
96	0.0	72.9	109.3#

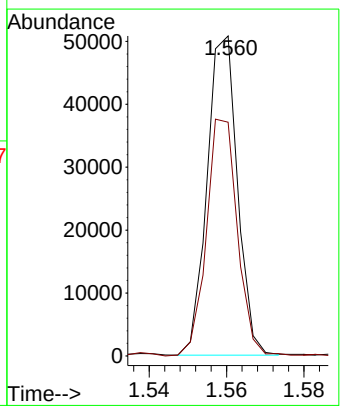


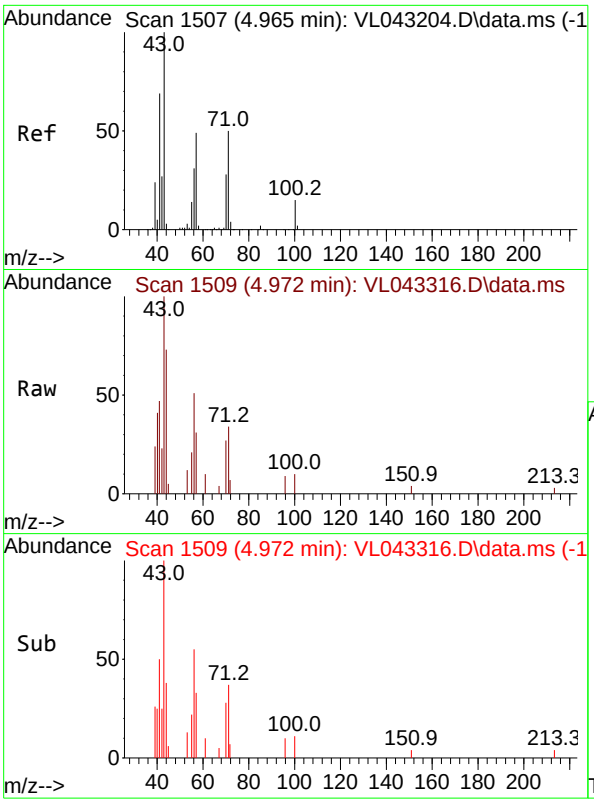


#9
Propene
Concen: 3.221 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.081 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 41 Resp: 27719

Ion	Ratio	Lower	Upper
41	100		
42	154.5	3.7	5.5#



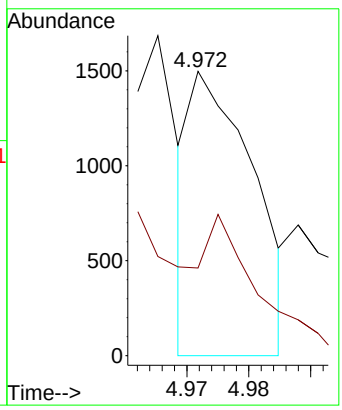


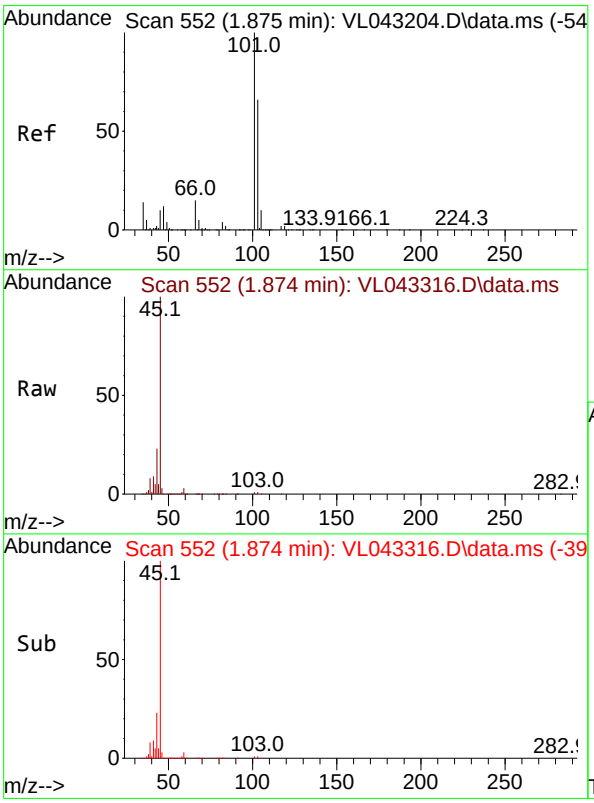
#10
Heptane
Concen: 0.042 ppbv
RT: 4.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 43 Resp: 1069

Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.7	59.5#

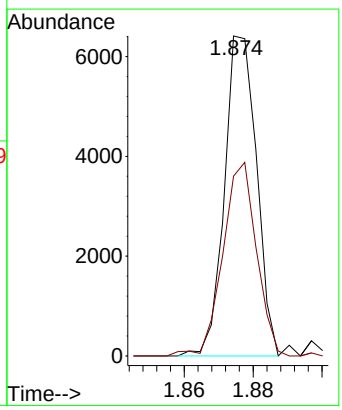


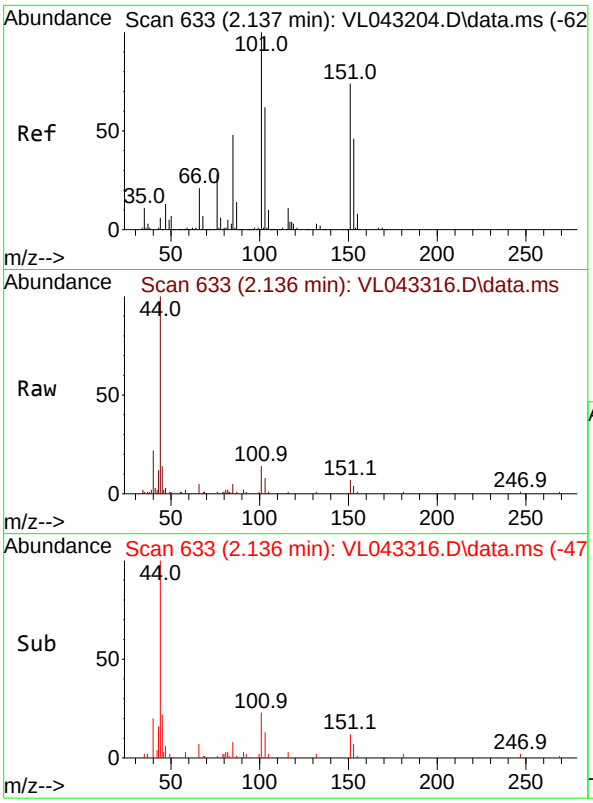


#11
Trichlorofluoromethane
Concen: 0.209 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:101 Resp: 4165

Ion	Ratio	Lower	Upper
101	100		
103	54.8	52.6	79.0



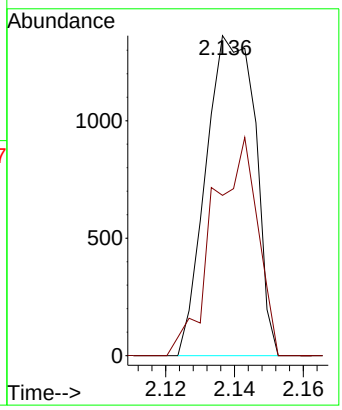


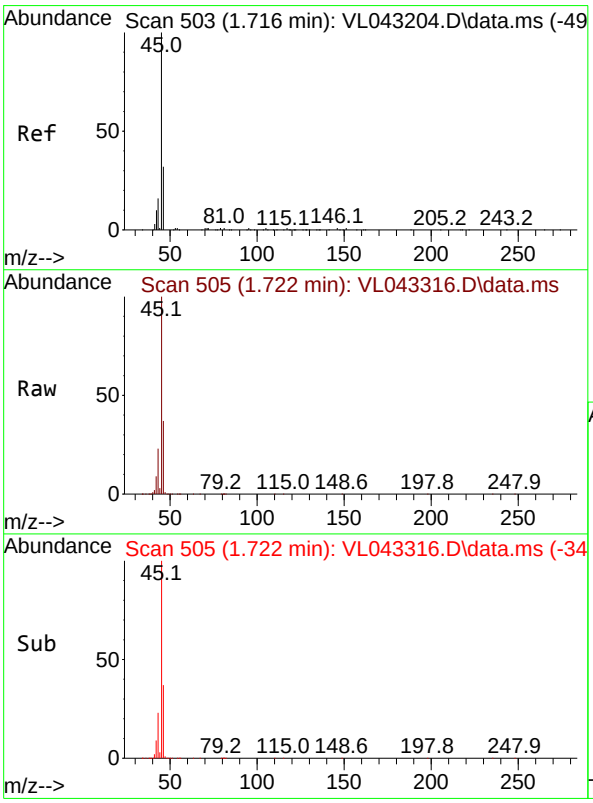
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.087 ppbv
RT: 2.136 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion:101 Resp: 1349

Ion	Ratio	Lower	Upper
101	100		
151	62.1	59.2	88.8

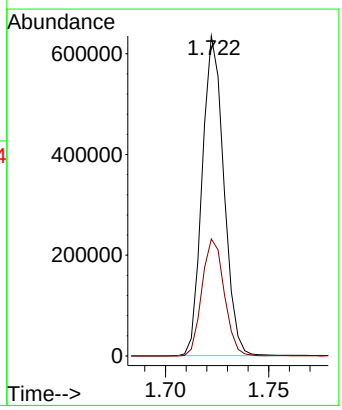


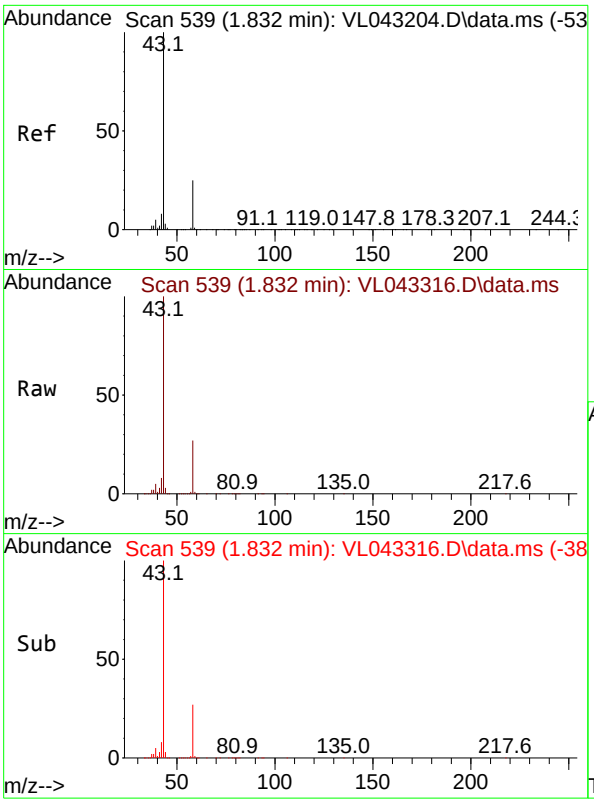


#13
Ethanol
Concen: 152.750 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 45 Resp: 462202

Ion	Ratio	Lower	Upper
45	100		
46	37.9	15.0	59.8



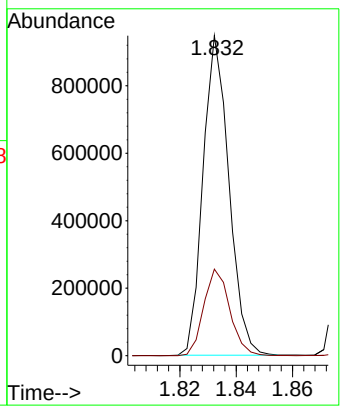


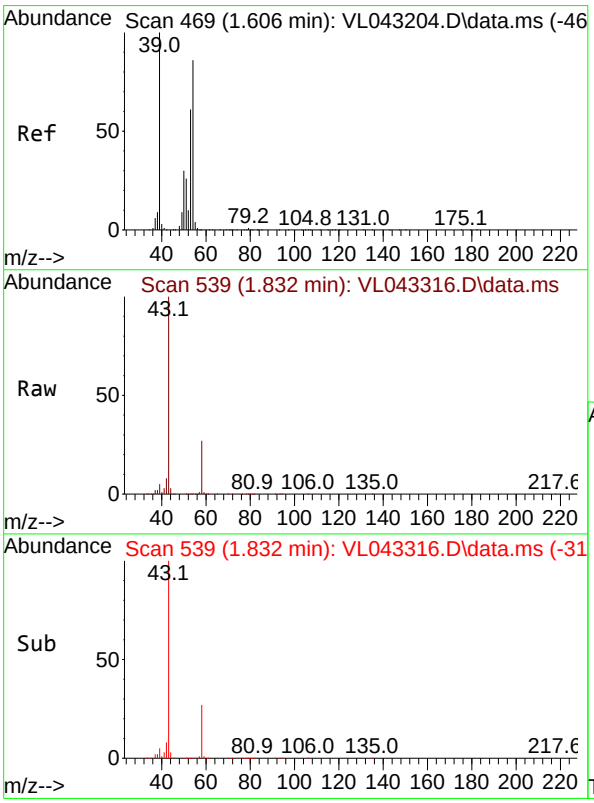
#15
Acetone
Concen: 29.800 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 43 Resp: 604849

Ion	Ratio	Lower	Upper
43	100		
58	27.2	20.7	31.1

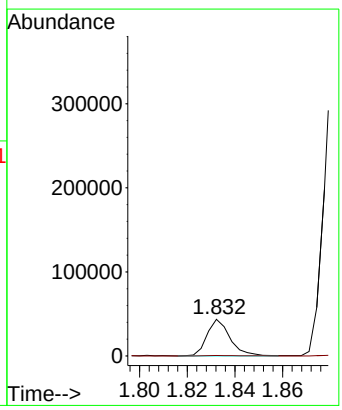


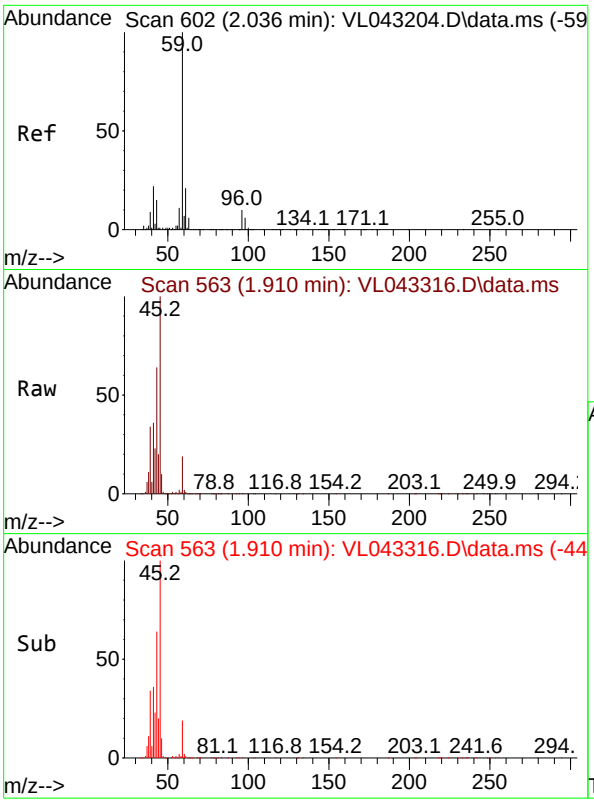


#16
1,3-Butadiene
Concen: 3.220 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.226 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 39 Resp: 29138

Ion	Ratio	Lower	Upper
39	100		
54	1.7	59.4	89.2#



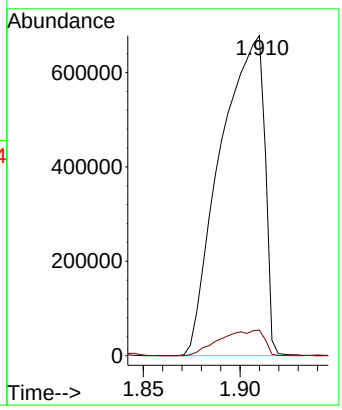


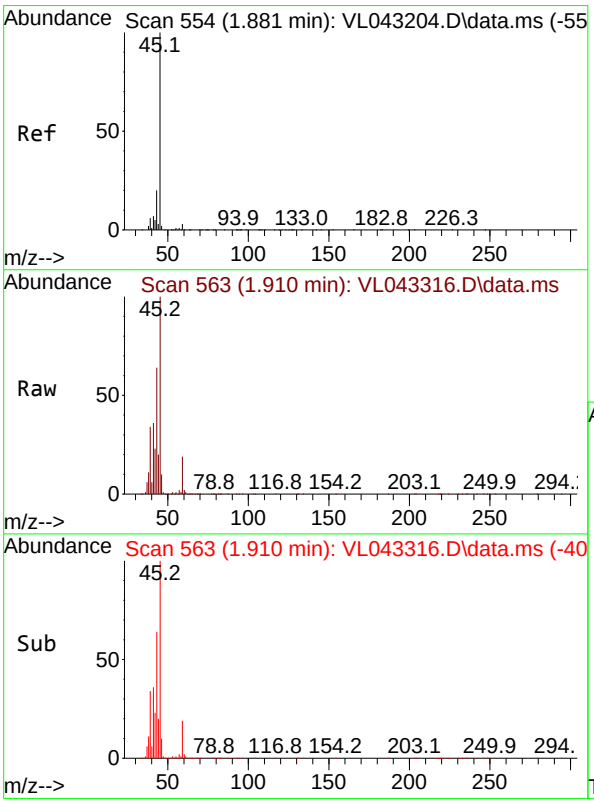
#17
tert-Butyl alcohol
Concen: 40.352 ppbv
RT: 1.910 min Scan# 5
Delta R.T. -0.126 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 59 Resp: 1075072

Ion	Ratio	Lower	Upper
59	100		
57	8.1	9.0	13.4#

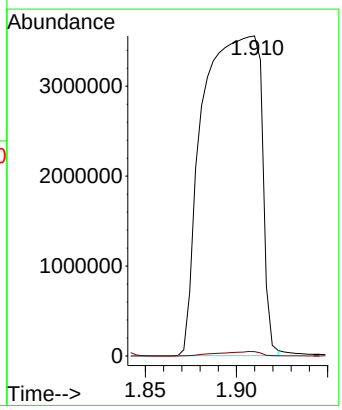


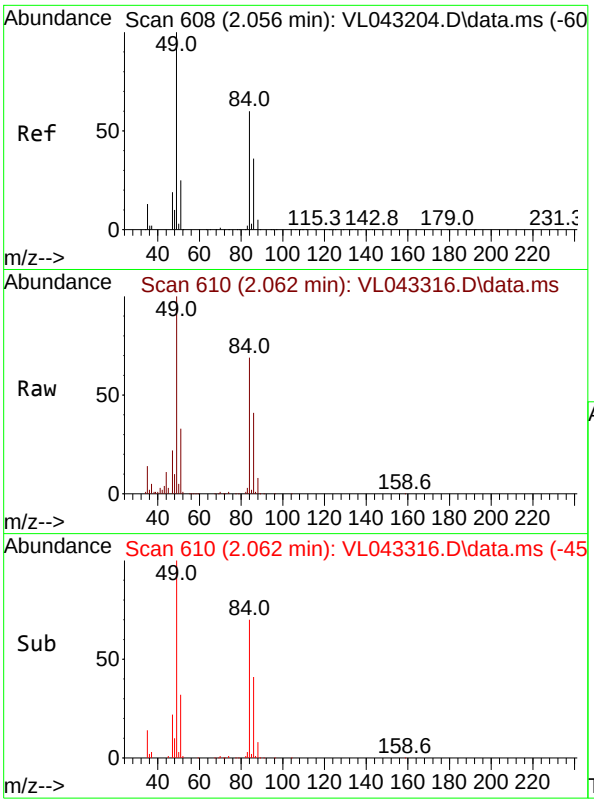


#19
Isopropyl Alcohol
Concen: 687.812 ppbv
RT: 1.910 min Scan# 563
Delta R.T. 0.029 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 45 Resp: 7888776

Ion	Ratio	Lower	Upper
45	100		
58	1.0	31.3	46.9#



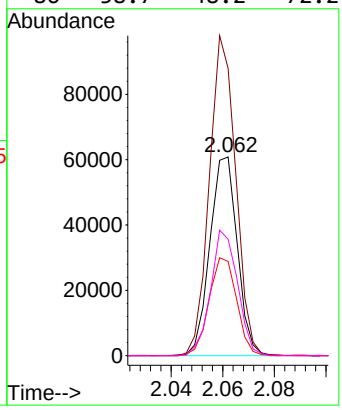


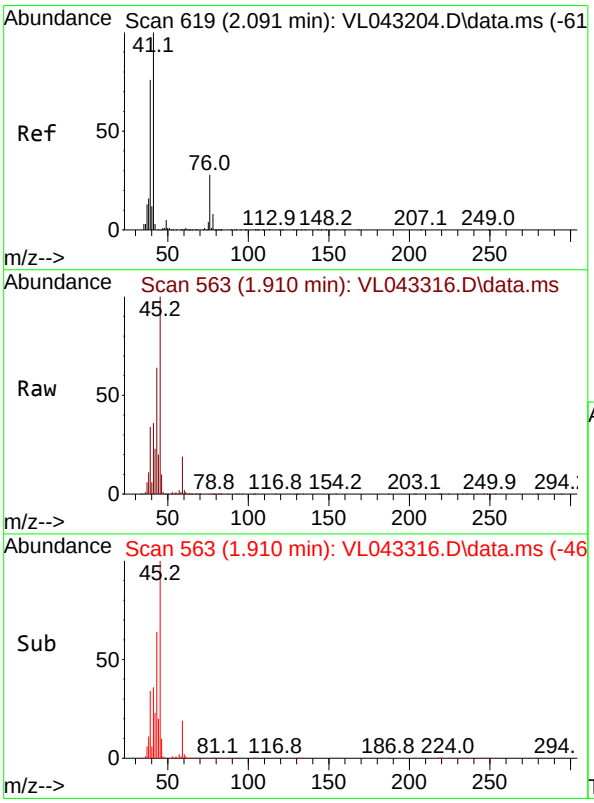
#20
Methylene Chloride
Concen: 7.301 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 84 Resp: 44935

Ion	Ratio	Lower	Upper
84	100		
49	144.4	132.9	199.3
51	47.5	34.8	52.2
86	58.7	48.2	72.2

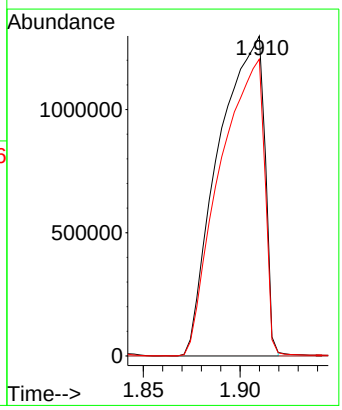


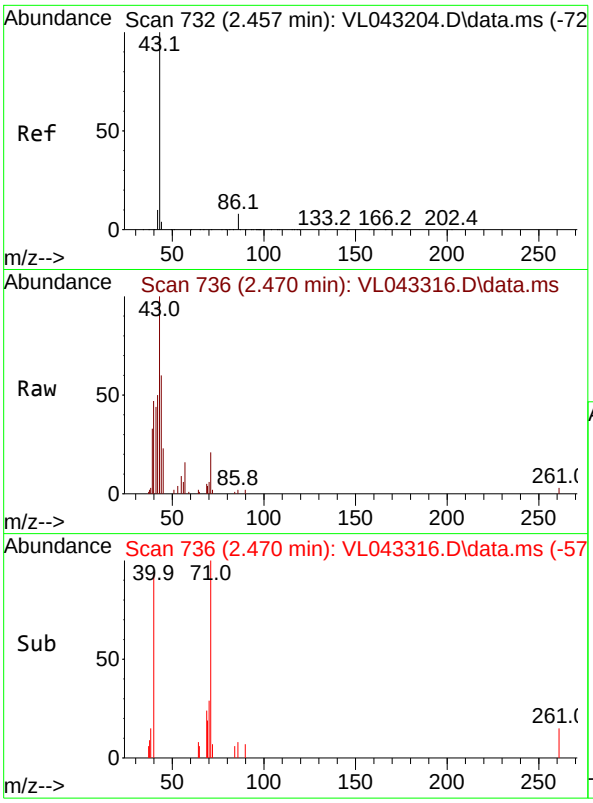


#21
Allyl Chloride
Concen: 156.575 ppbv
RT: 1.910 min Scan# 563
Delta R.T. -0.181 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 41 Resp: 2138169

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.1	33.1#
39	89.9	61.0	91.4



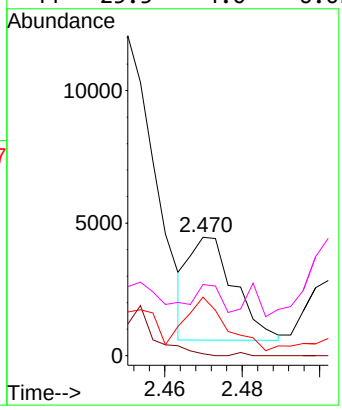


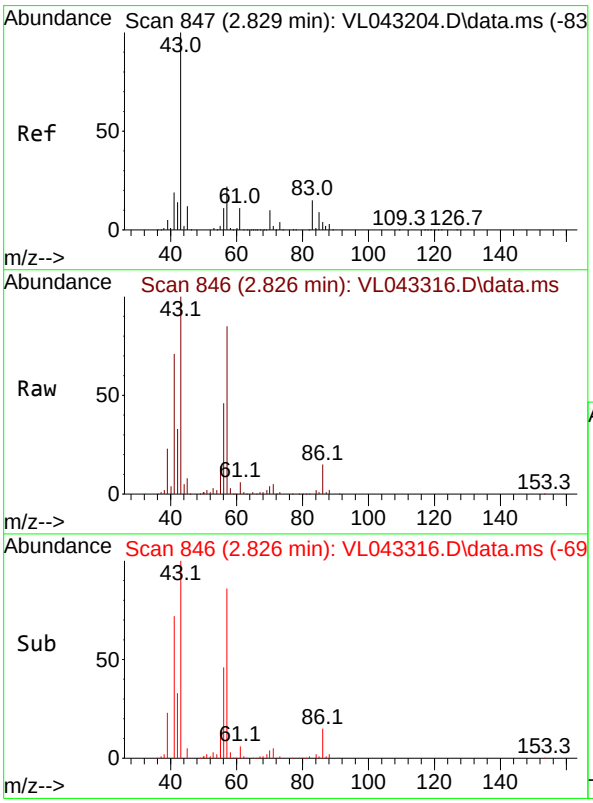
#23
Vinyl Acetate
Concen: 0.130 ppbv
RT: 2.470 min Scan# 7
Delta R.T. 0.013 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 43 Resp: 3183

Ion	Ratio	Lower	Upper
43	100		
86	2.0	6.2	9.2#
42	49.9	8.0	12.0#
44	25.5	4.0	6.0#

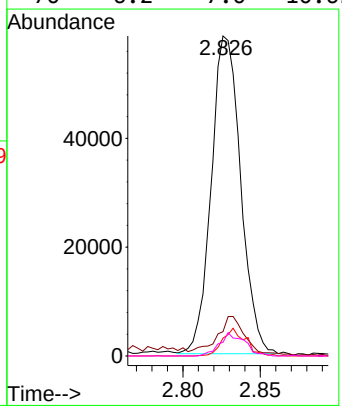


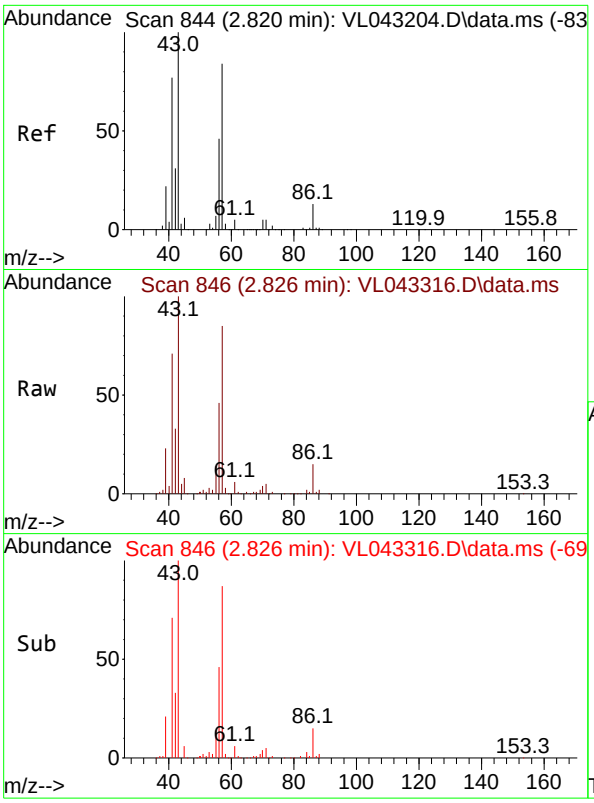


#25
Ethyl Acetate
Concen: 1.761 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 43 Resp: 77111

Ion	Ratio	Lower	Upper
43	100		
45	13.6	8.1	12.1#
61	6.9	7.0	10.4#
70	6.2	7.0	10.6#



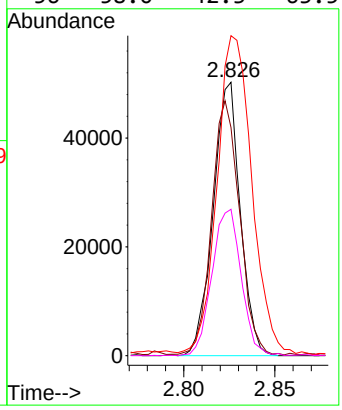


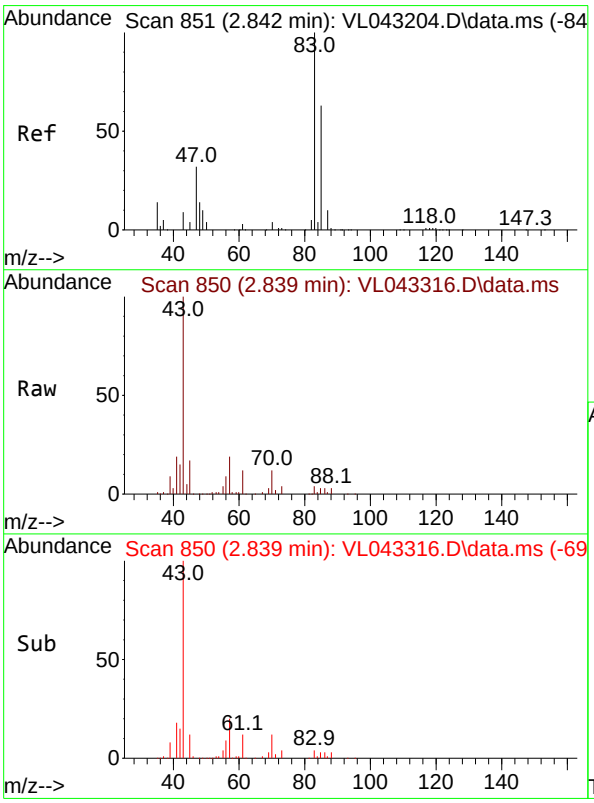
#26
Hexane
Concen: 2.710 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 57 Resp: 52020

Ion	Ratio	Lower	Upper
57	100		
41	97.1	74.6	111.8
43	154.4	179.0	268.4#
56	58.0	42.3	63.5

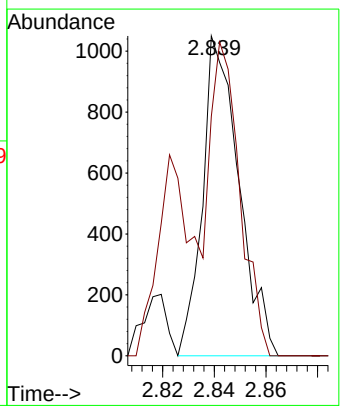


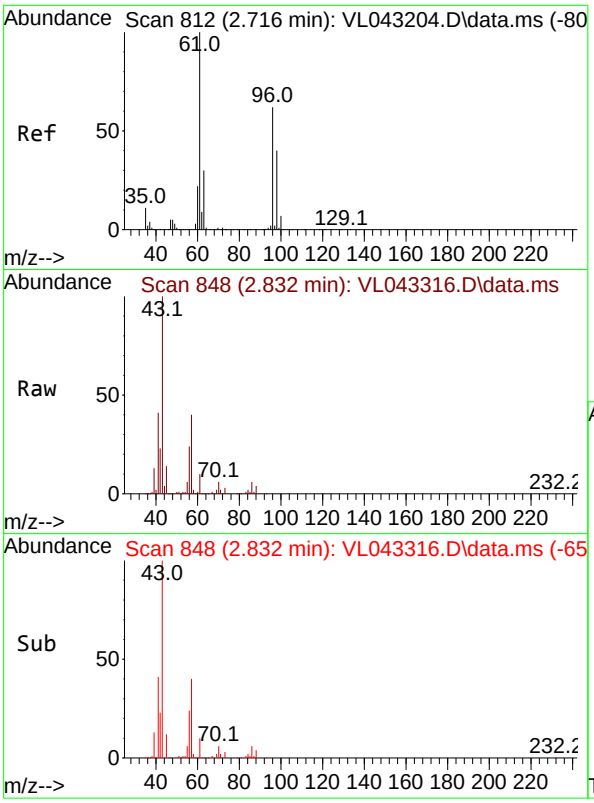


#29
Chloroform
Concen: 0.038 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 83 Resp: 1029

Ion	Ratio	Lower	Upper
83	100		
85	74.9	50.5	75.7



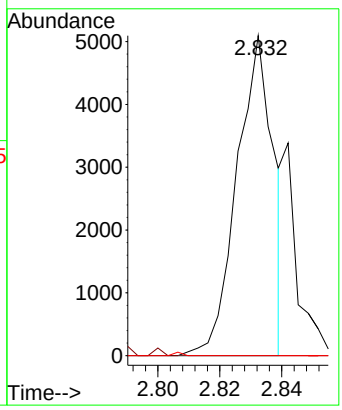


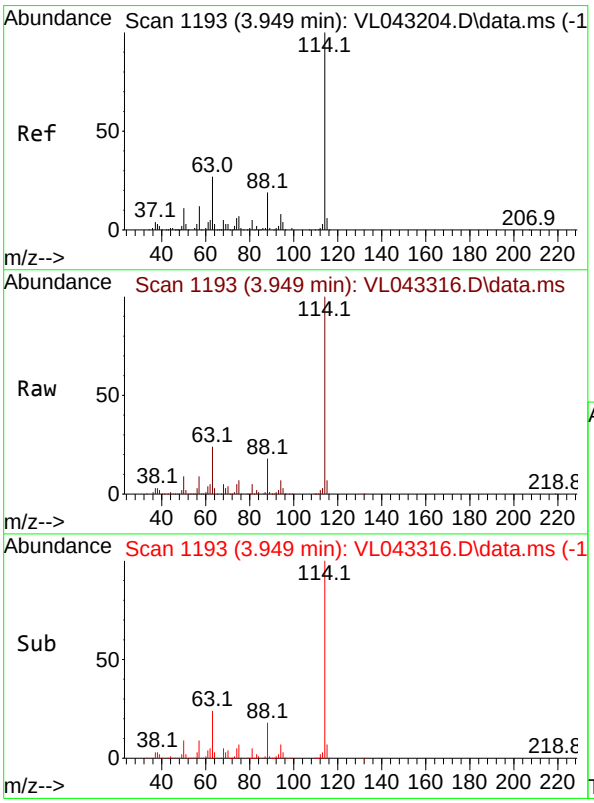
#31
cis-1,2-Dichloroethene
Concen: 0.219 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.116 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 61 Resp: 4180

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.3	73.9#
98	0.0	32.1	48.1#

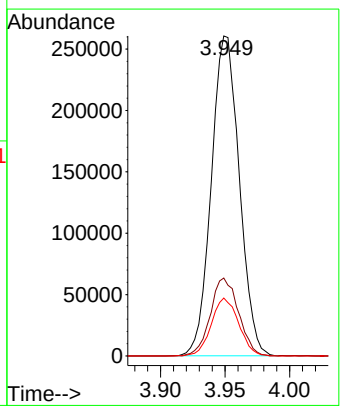


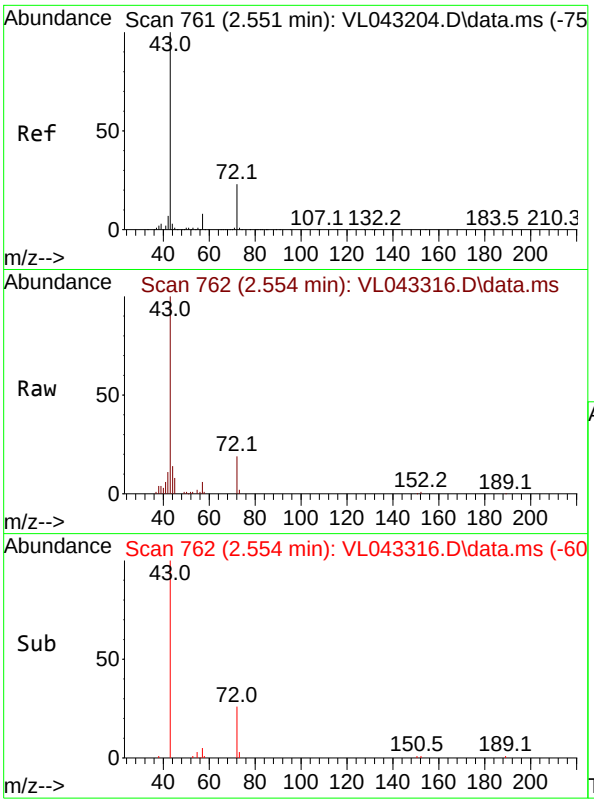


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:114 Resp: 393021

Ion	Ratio	Lower	Upper
114	100		
63	24.6	21.0	31.6
88	17.7	14.9	22.3



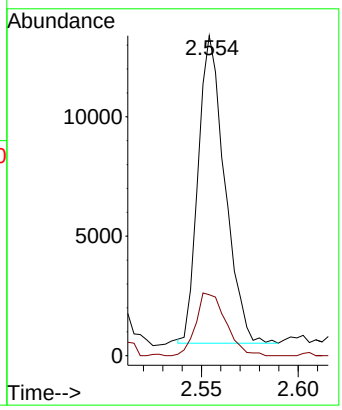


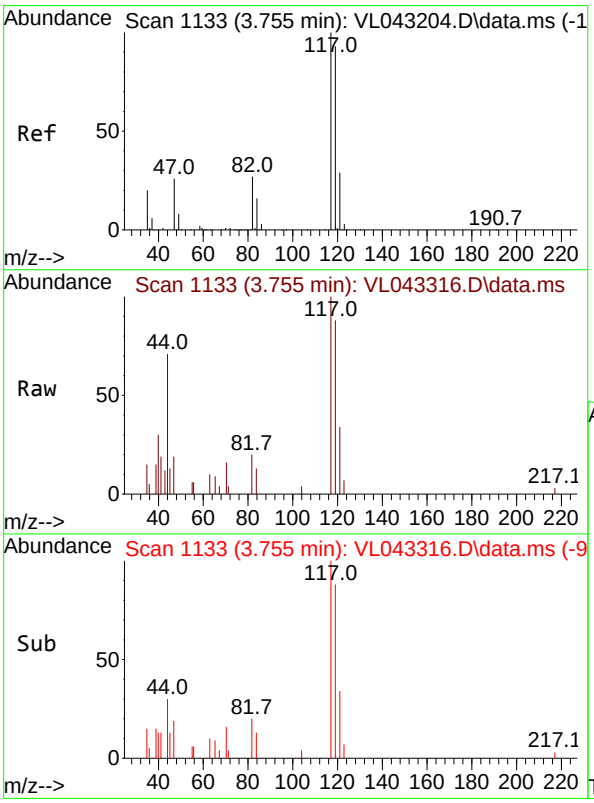
#34
2-Butanone
Concen: 0.444 ppbv
RT: 2.554 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 43 Resp: 12307

Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.1	27.1

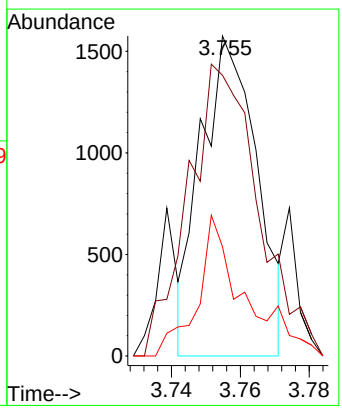


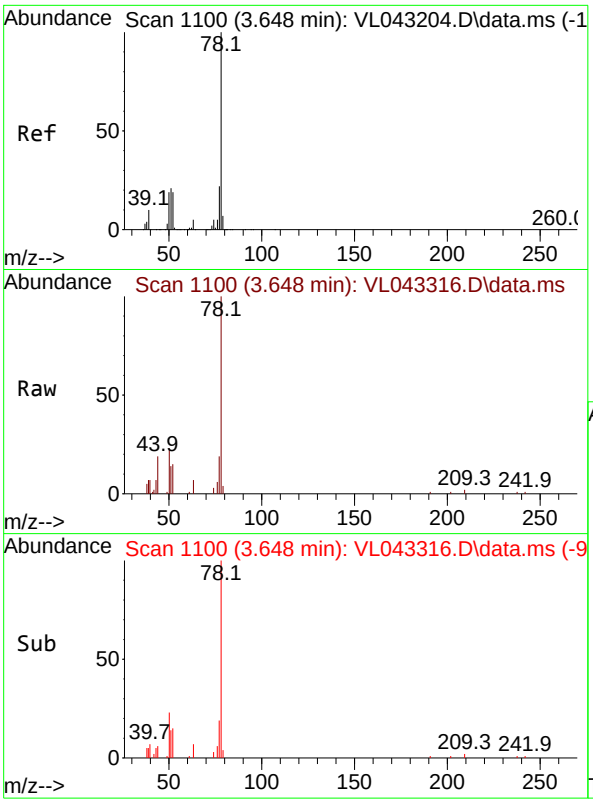


#35
Carbon Tetrachloride
Concen: 0.060 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:117 Resp: 1777

Ion	Ratio	Lower	Upper
117	100		
119	73.4	74.6	112.0#
121	32.6	23.2	34.8



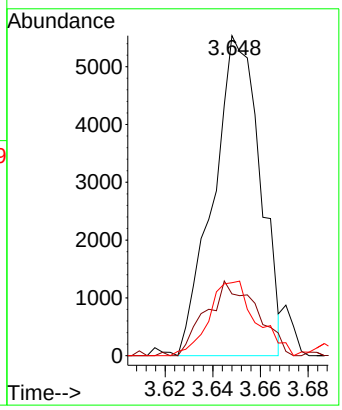


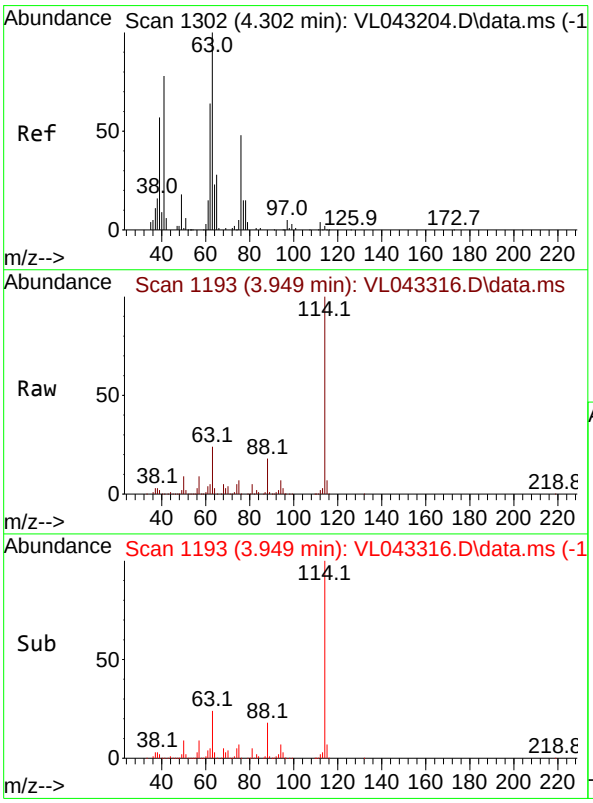
#36
Benzene
Concen: 0.201 ppbv
RT: 3.648 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 78 Resp: 7554

Ion	Ratio	Lower	Upper
78	100		
77	19.3	17.5	26.3
50	21.4	15.5	23.3

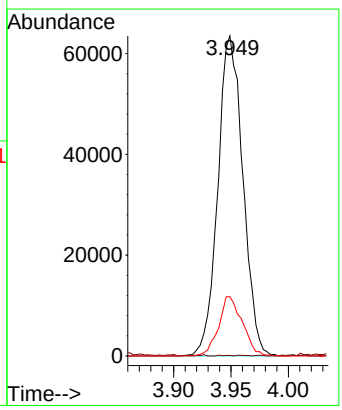


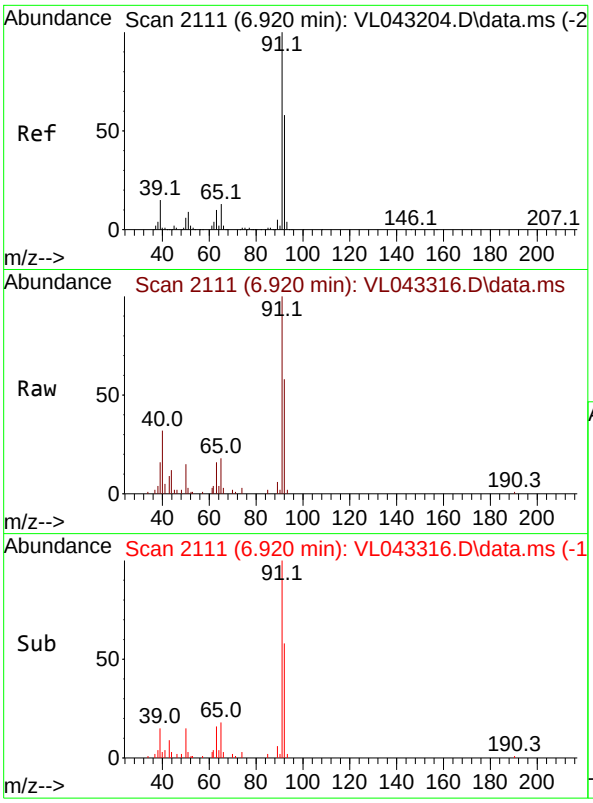


#39
1,2-Dichloropropane
Concen: 7.007 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.353 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 63 Resp: 96525

Ion	Ratio	Lower	Upper
63	100		
41	0.2	62.6	93.8#
62	18.5	51.0	76.6#



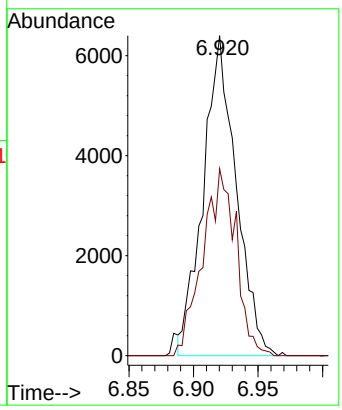


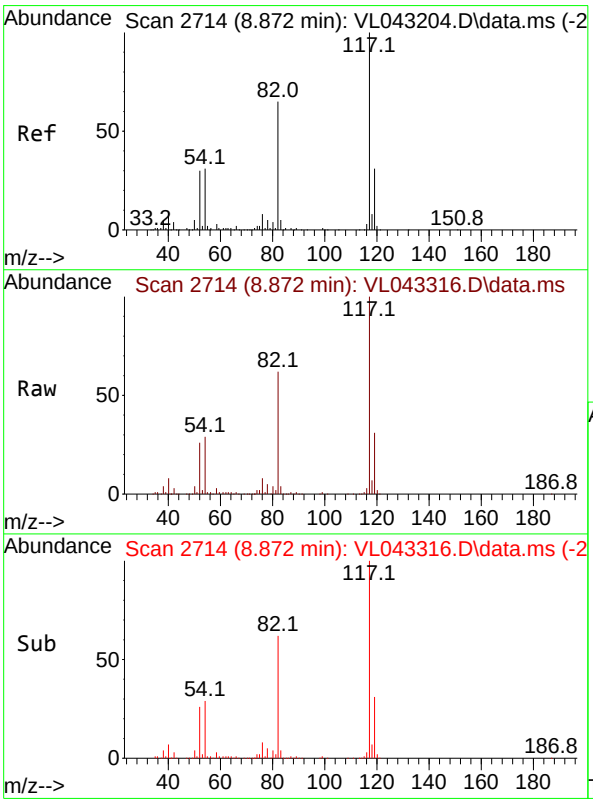
#53
Toluene
Concen: 0.255 ppbv
RT: 6.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 91 Resp: 11377

Ion	Ratio	Lower	Upper
91	100		
92	59.0	47.4	71.0

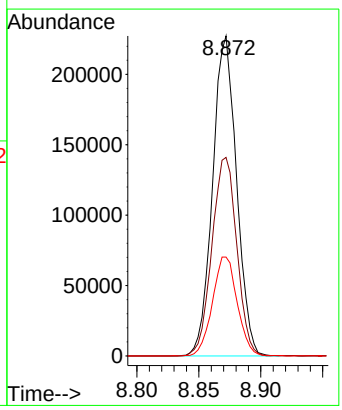


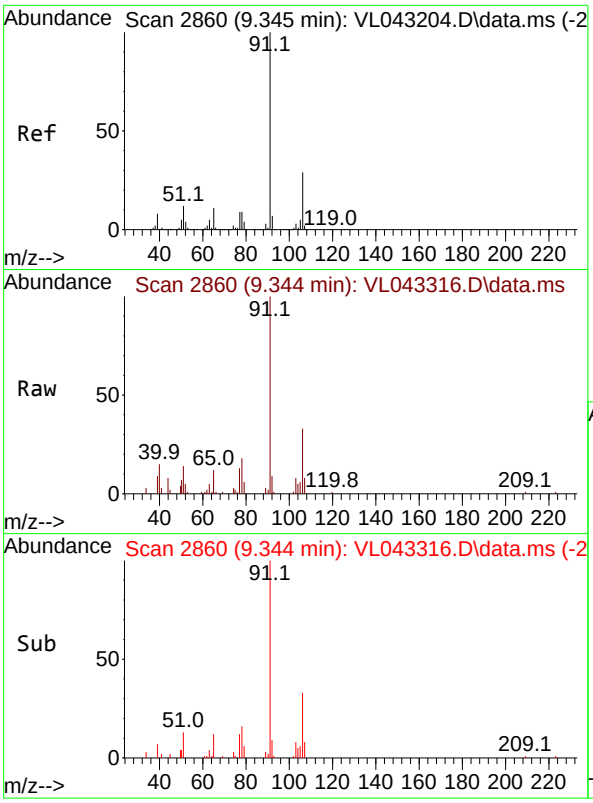


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:117 Resp: 306652

Ion	Ratio	Lower	Upper
117	100		
82	64.3	56.1	84.1
119	32.1	25.0	37.6



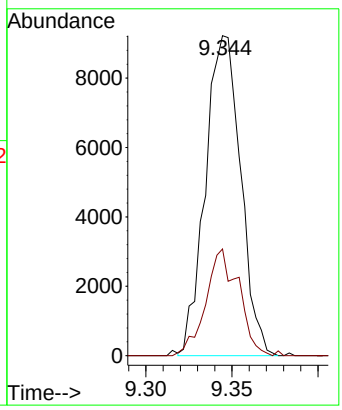


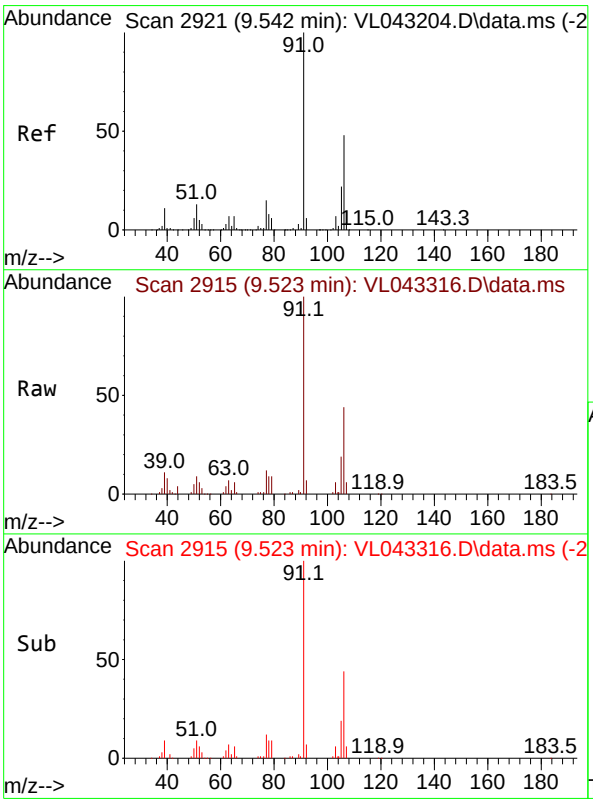
#58
Ethyl Benzene
Concen: 0.223 ppbv
RT: 9.344 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 91 Resp: 13162

Ion	Ratio	Lower	Upper
91	100		
106	32.4	22.8	34.2

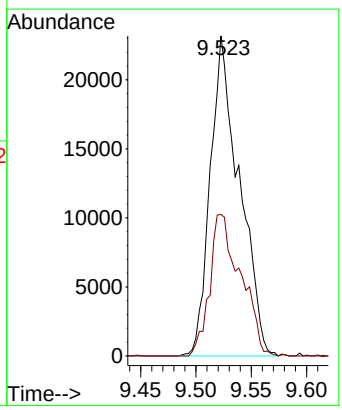


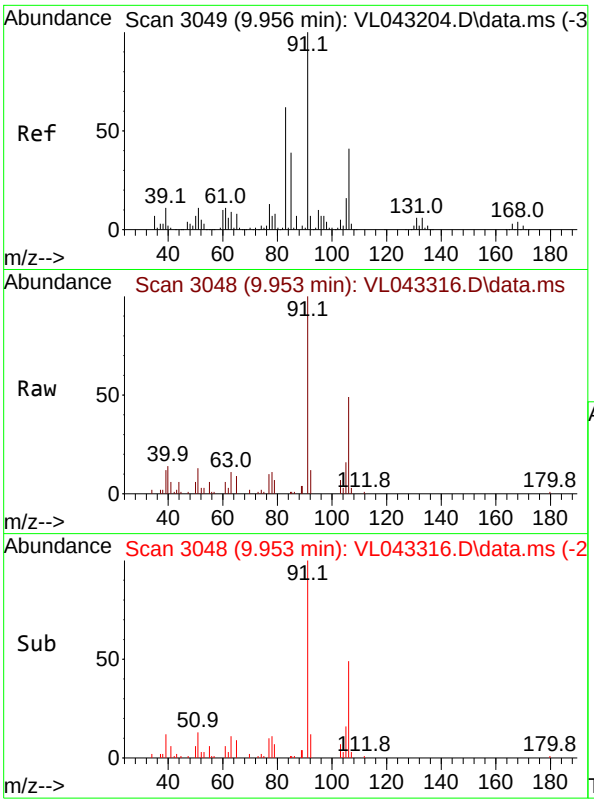


#59
m/p-Xylene
Concen: 0.897 ppbv
RT: 9.523 min Scan# 2915
Delta R.T. -0.020 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 91 Resp: 42461

Ion	Ratio	Lower	Upper
91	100		
106	47.0	36.1	54.1



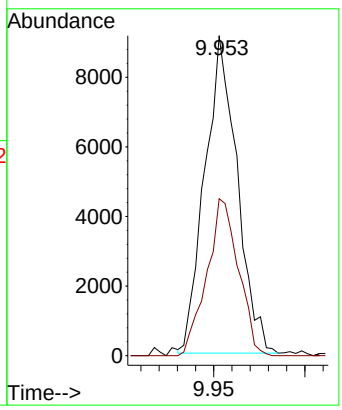


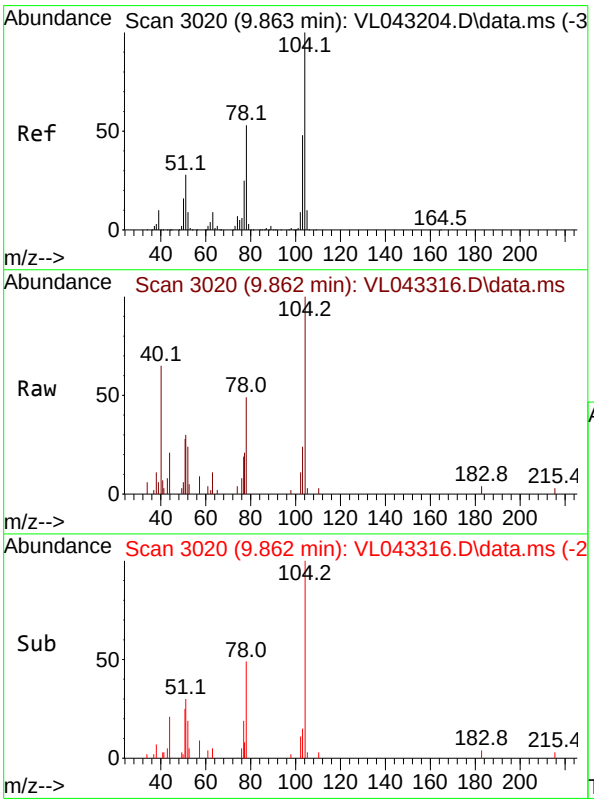
#60
o-Xylene
Concen: 0.239 ppbv
RT: 9.953 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 91 Resp: 11276

Ion	Ratio	Lower	Upper
91	100		
106	48.2	20.9	62.8

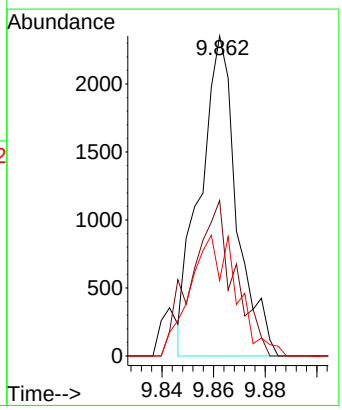


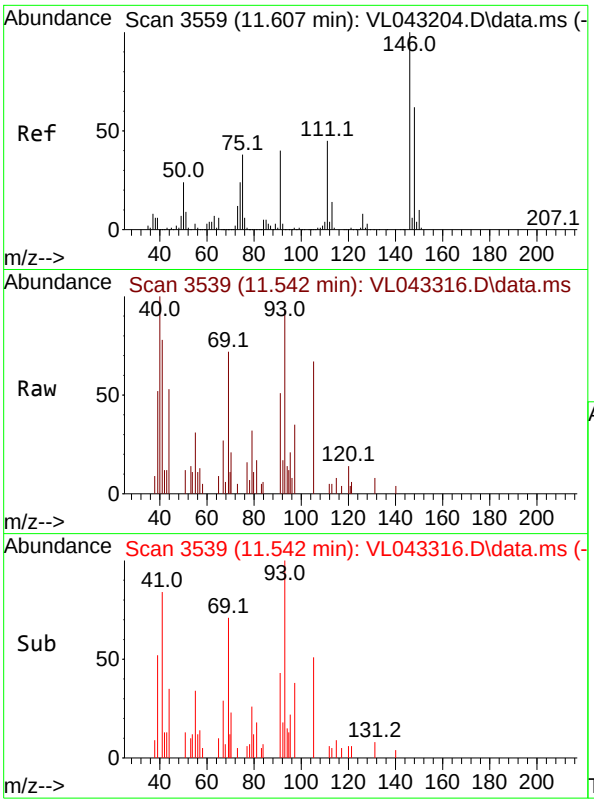


#61
Styrene
Concen: 0.113 ppbv
RT: 9.862 min Scan# 3020
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:104 Resp: 2334

Ion	Ratio	Lower	Upper
104	100		
78	55.6	42.1	63.1
103	47.8	37.2	55.8



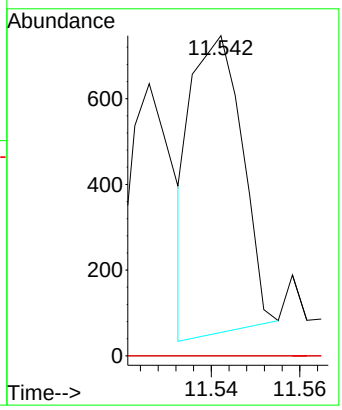


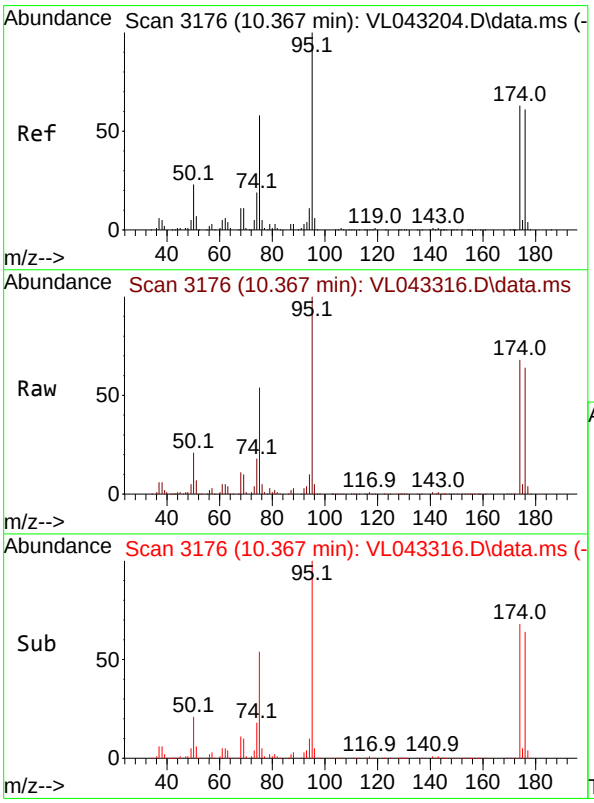
#66
Benzyl Chloride
Concen: 0.073 ppbv
RT: 11.542 min Scan# 3
Delta R.T. -0.065 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 91 Resp: 558

Ion	Ratio	Lower	Upper
91	100		
126	6.1	14.4	21.6#
128	7.3	4.6	6.8#

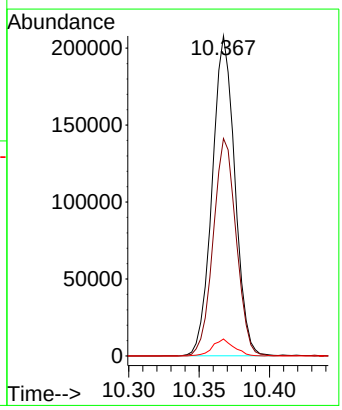


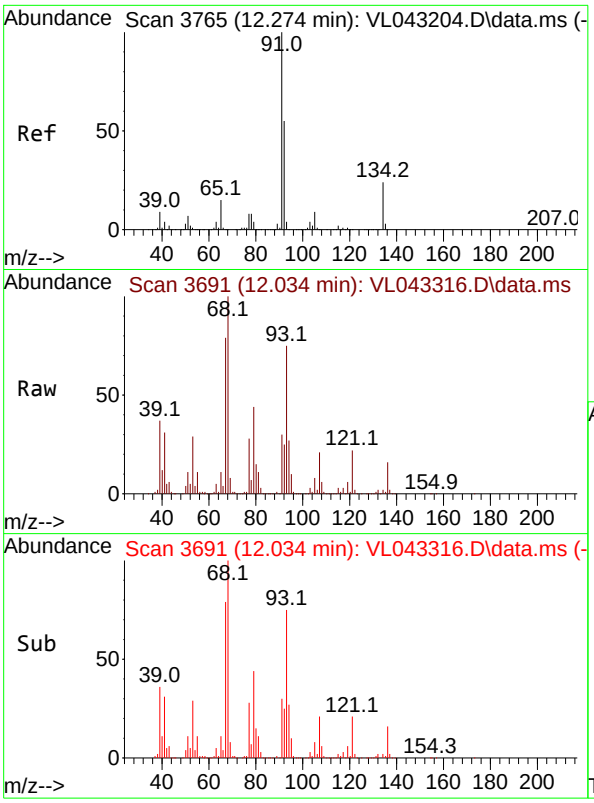


#68
1-Bromo-4-Fluorobenzene
Concen: 10.363 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion: 95 Resp: 232936

Ion	Ratio	Lower	Upper
95	100		
174	68.8	50.2	75.2
175	5.0	4.1	6.1



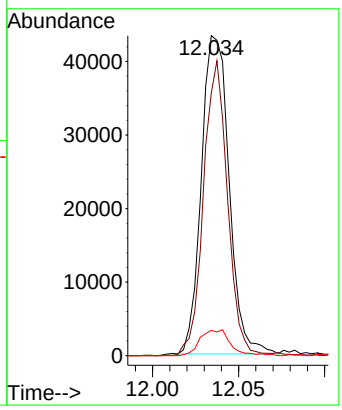


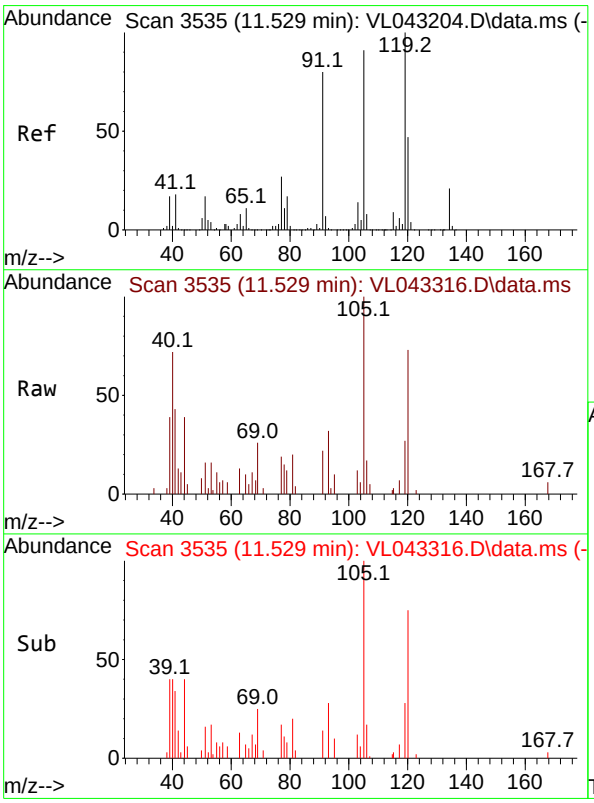
#70
n-Butylbenzene
Concen: 0.560 ppbv
RT: 12.034 min Scan# 3
Delta R.T. -0.240 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion: 91 Resp: 48515

Ion	Ratio	Lower	Upper
91	100		
92	81.0	43.5	65.3#
134	8.9	19.0	28.6#

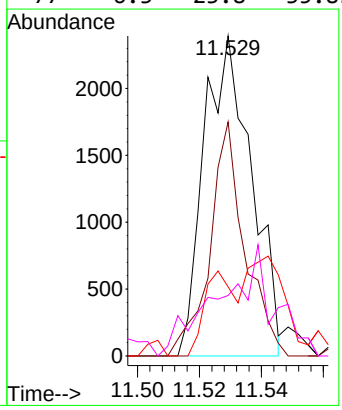


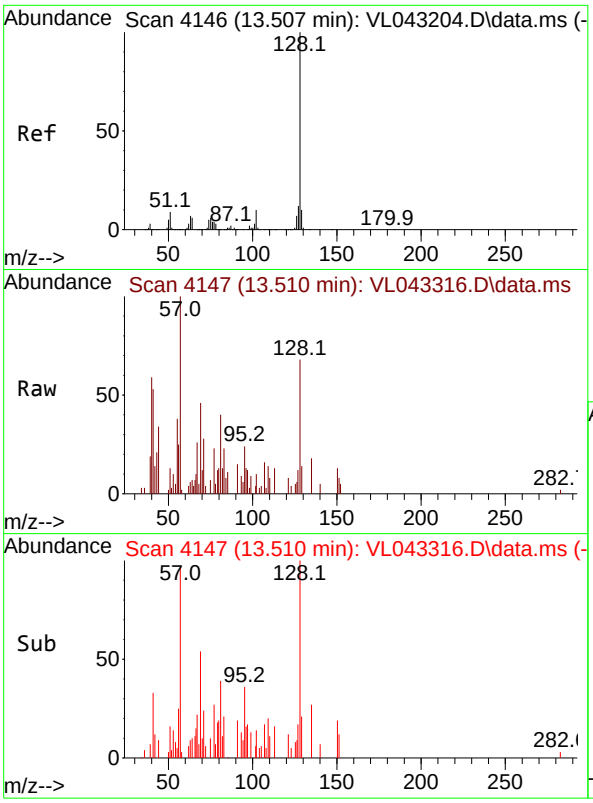


#74
1,2,4-Trimethylbenzene
Concen: 0.048 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:105 Resp: 2546

Ion	Ratio	Lower	Upper
105	100		
120	69.1	41.7	62.5#
91	21.6	70.0	105.0#
77	6.3	23.8	35.8#



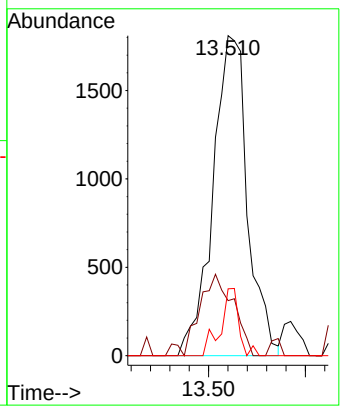


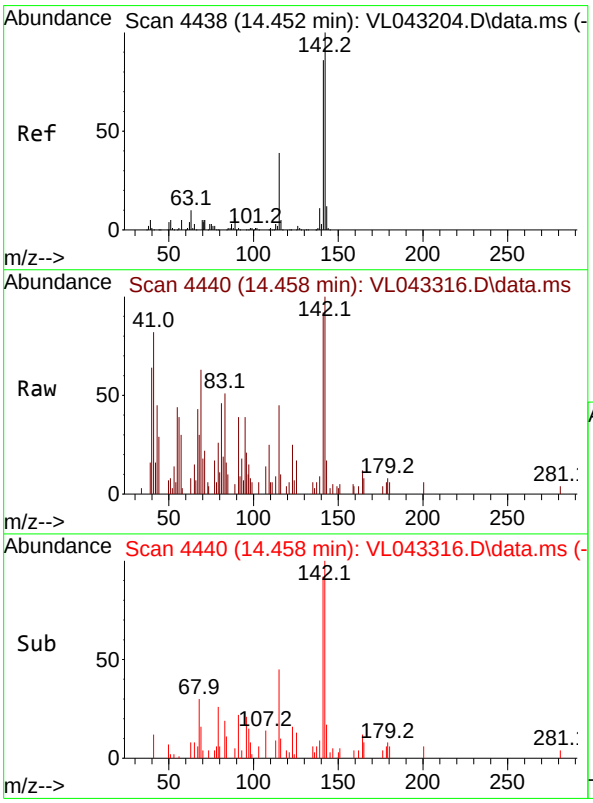
#79
Naphthalene
Concen: 0.048 ppbv
RT: 13.510 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1

Tgt Ion:128 Resp: 2251

Ion	Ratio	Lower	Upper
128	100		
127	14.0	9.9	14.9
129	20.9	8.4	12.6#

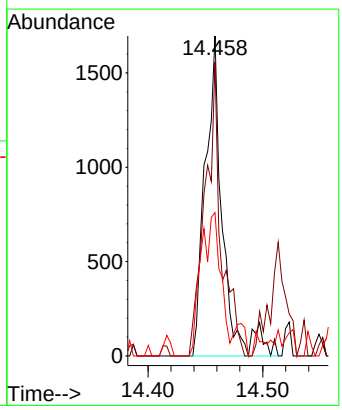




#80
Naphthalene,2-methyl-
Concen: 0.145 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.006 min
Lab File: VL043316.D
Acq: 08 Dec 2025 17:00

Tgt Ion:142 Resp: 1788

Ion	Ratio	Lower	Upper
142	100		
141	86.1	67.1	100.7
115	64.3	31.9	47.9#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043331.D
Acq On : 09 Dec 2025 07:30
Operator : SY/MD
Sample : Q3799-03DL2 400X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Quant Time: Dec 10 02:12:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

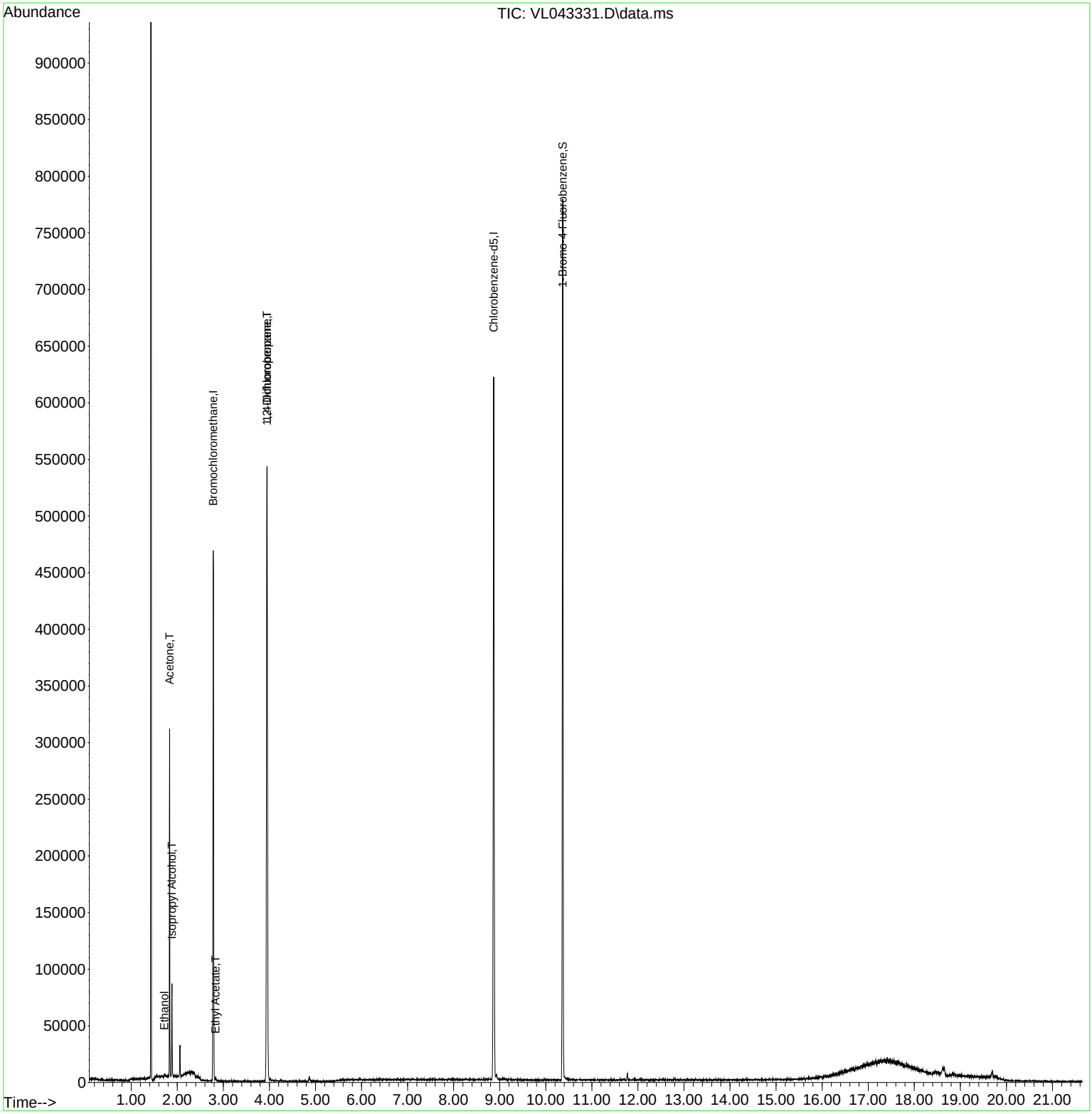
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.780	49	122404	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	307022	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	245820	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	171652	9.526	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.300%			
Target Compounds						Qvalue
13) Ethanol	1.719	45	710	0.280	ppbv	# 38
15) Acetone	1.832	43	127495	7.497	ppbv	100
19) Isopropyl Alcohol	1.884	45	32181	3.349	ppbv	# 1
20) Methylene Chloride	2.055	84	3914	Below Cal		# 83
25) Ethyl Acetate	2.829	43	1495	0.041	ppbv	# 86
39) 1,2-Dichloropropane	3.946	63	78942	7.336	ppbv	# 24

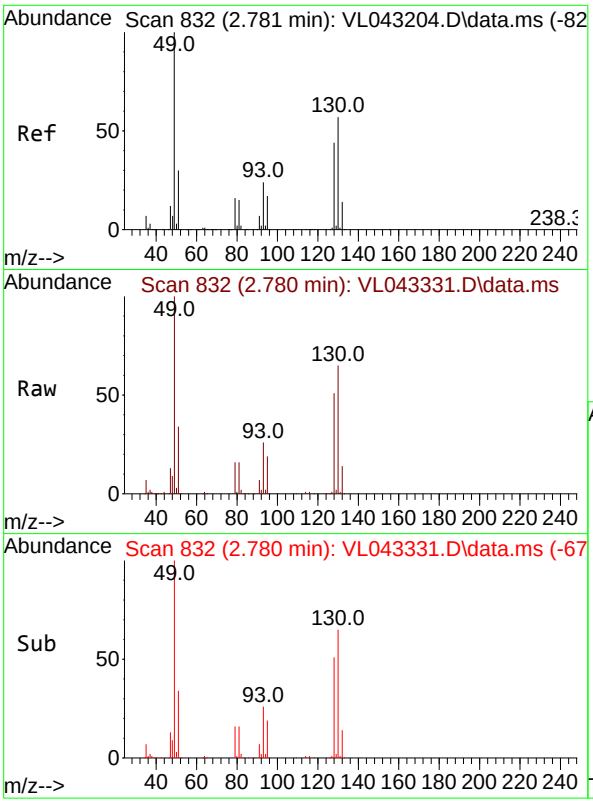
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043331.D
Acq On : 09 Dec 2025 07:30
Operator : SY/MD
Sample : Q3799-03DL2 400X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Quant Time: Dec 10 02:12:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



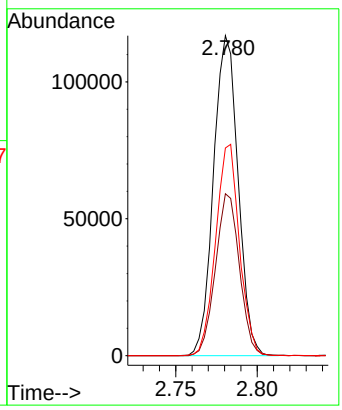


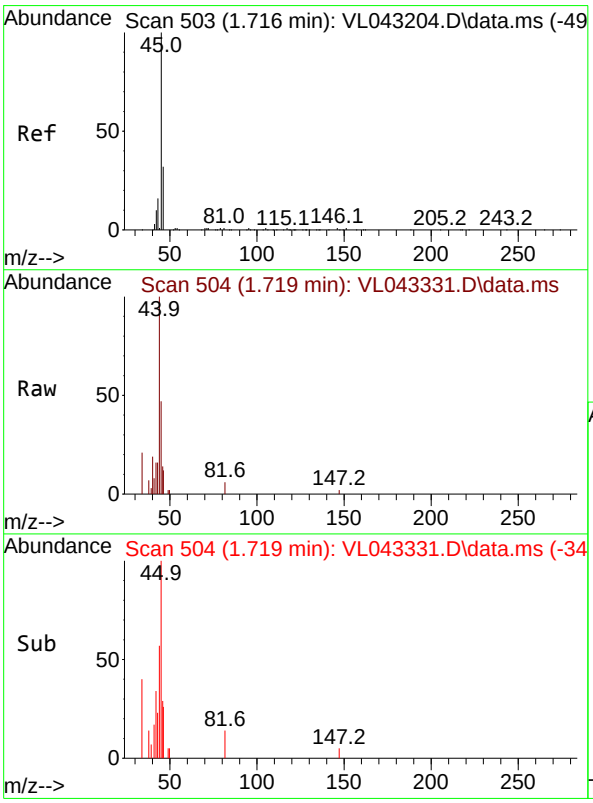
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.001 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Tgt Ion: 49 Resp: 122404

Ion	Ratio	Lower	Upper
49	100		
128	49.5	23.0	69.0
130	64.0	29.9	89.7

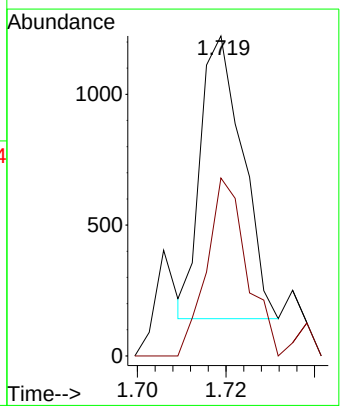


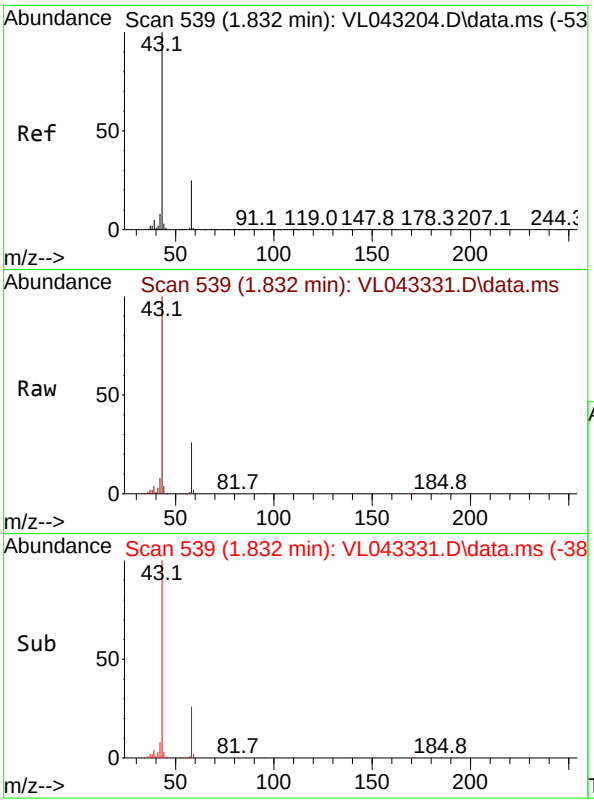


#13
Ethanol
Concen: 0.280 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Tgt Ion: 45 Resp: 710

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.0	59.8#



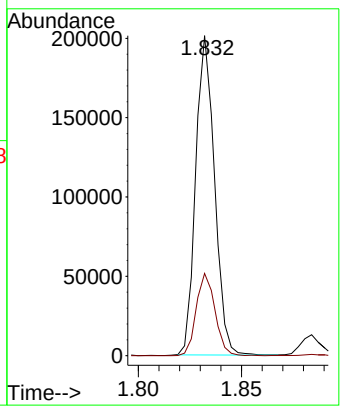


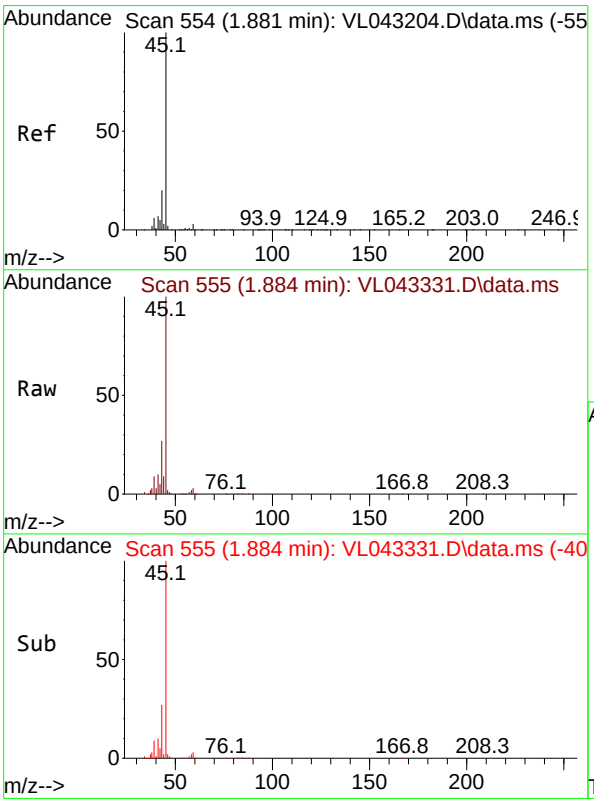
#15
Acetone
Concen: 7.497 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Tgt Ion: 43 Resp: 127495

Ion	Ratio	Lower	Upper
43	100		
58	25.7	20.7	31.1

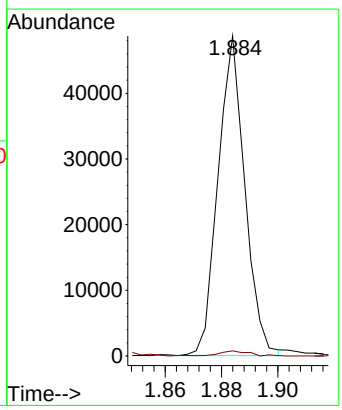


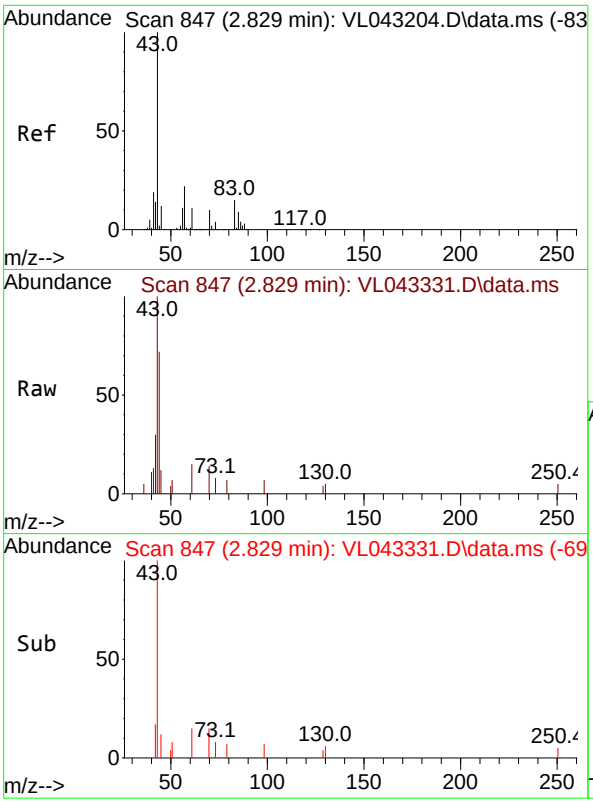


#19
Isopropyl Alcohol
Concen: 3.349 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Tgt Ion: 45 Resp: 32181

Ion	Ratio	Lower	Upper
45	100		
58	101.7	31.3	46.9#



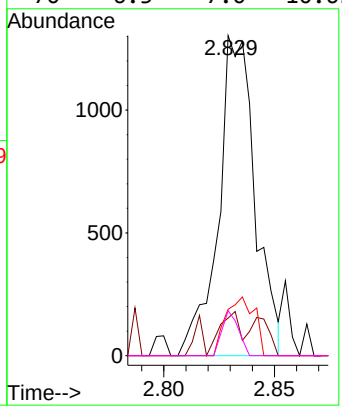


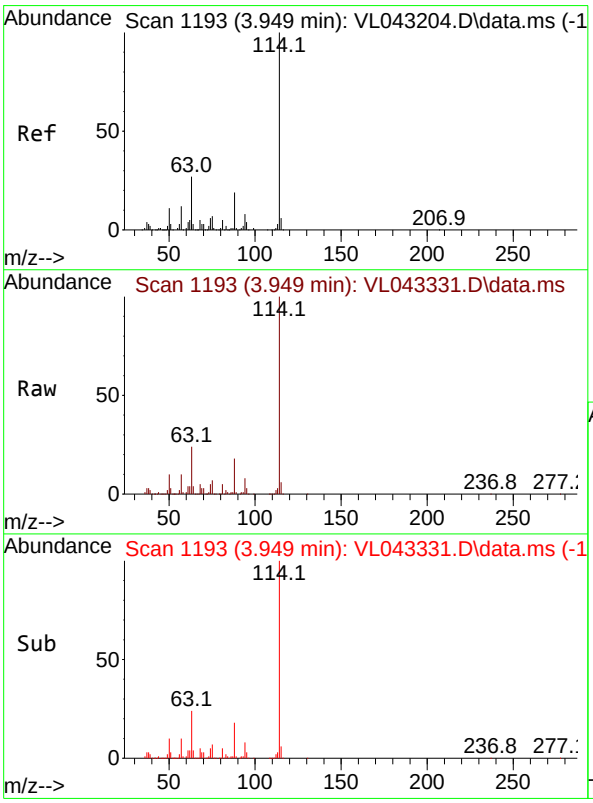
#25
Ethyl Acetate
Concen: 0.041 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Tgt Ion: 43 Resp: 1495

Ion	Ratio	Lower	Upper
43	100		
45	16.9	8.1	12.1#
61	14.4	7.0	10.4#
70	6.3	7.0	10.6#

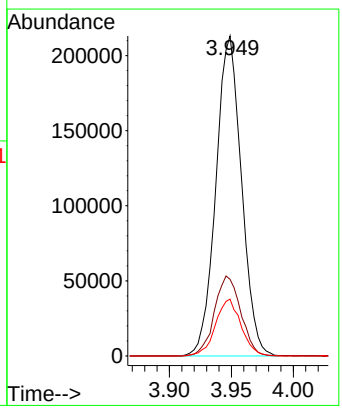


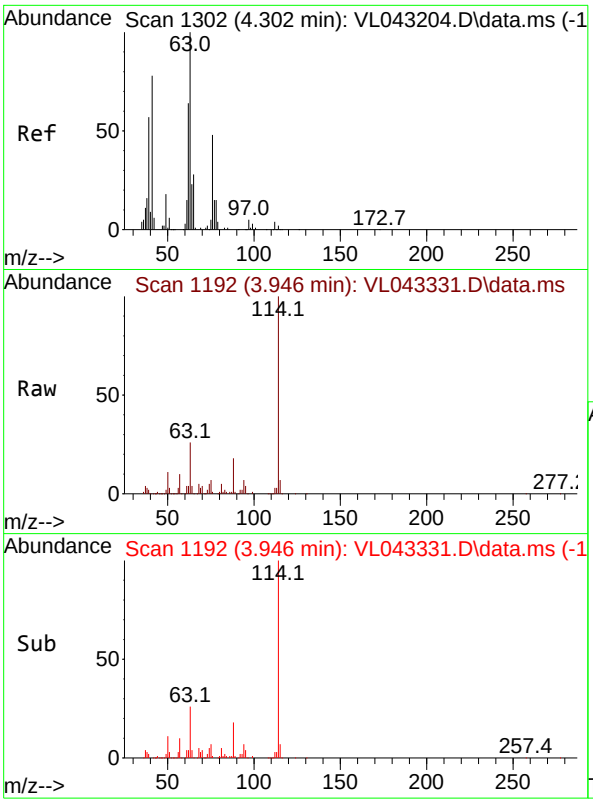


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Tgt Ion:114 Resp: 307022

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	17.7	14.9	22.3



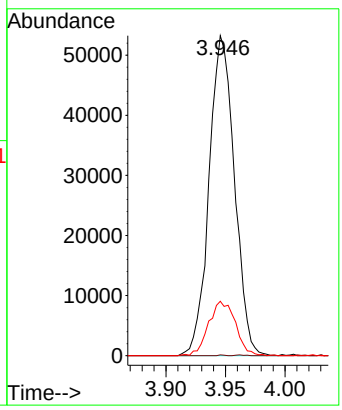


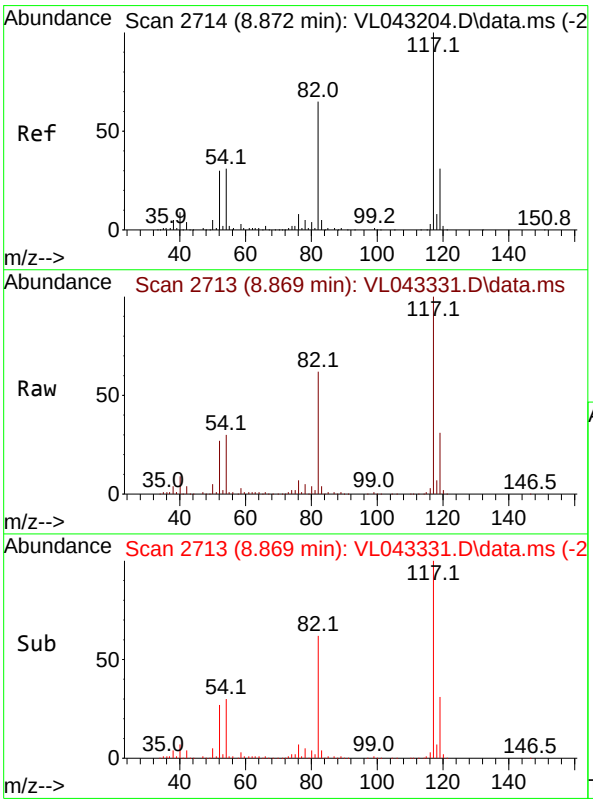
#39
1,2-Dichloropropane
Concen: 7.336 ppbv
RT: 3.946 min Scan# 11
Delta R.T. -0.356 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Tgt Ion: 63 Resp: 78942

Ion	Ratio	Lower	Upper
63	100		
41	0.3	62.6	93.8#
62	17.0	51.0	76.6#

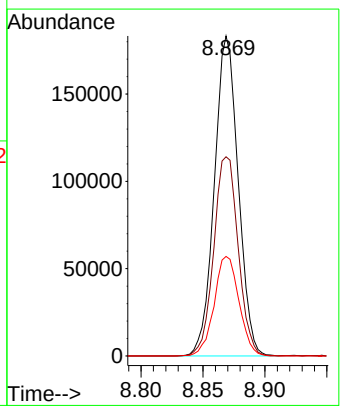


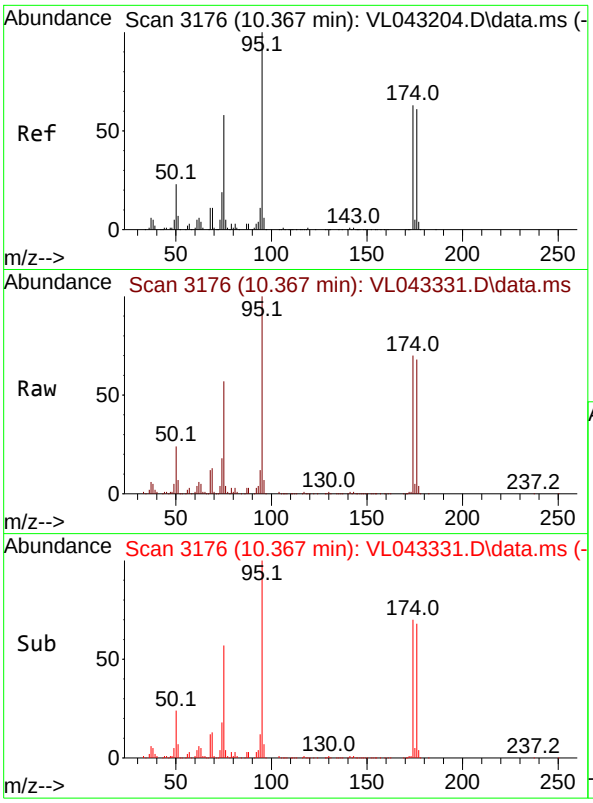


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.004 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Tgt Ion:117 Resp: 245820

Ion	Ratio	Lower	Upper
117	100		
82	63.9	56.1	84.1
119	32.4	25.0	37.6





#68
1-Bromo-4-Fluorobenzene
Concen: 9.526 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL043331.D
Acq: 09 Dec 2025 07:30

Instrument :
MSVOA_L
ClientSampleId :
10-IA-1DL2

Tgt Ion: 95 Resp: 171652

Ion	Ratio	Lower	Upper
95	100		
174	69.1	50.2	75.2
175	5.0	4.1	6.1